

Thread Name & Version = MCNP5_RSICC, 1.30



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1mcnp version 5 ld=06212004 04/19/16 06:24:14

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*****
probid = 04/19/16 06:24:14
inp=inp x=xmdir130

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warning. universe map (print table 128) disabled.
  1-      Loose Plate with Box
  2-      c
  3-      c      Cask
  4-      c
  5-      10      2 -1.0      -400 424 -410 #20 #21 #22 #23
  6-      #24 #25 #26 #27      imp:n=1 $
cavity
  7-      11      4 -7.94      (-424:410:400) 423 -411 -401 imp:n=1 $
inner steel
  8-      12      5 -11.35      (-423:411:401) 422 -412 -402 imp:n=1 $ lead
  9-      13      4 -7.94      (-422:412:402) 421 -413 -403 imp:n=1 $
outer steel
 10-      14      2 -1.0      (-421:413:403) -405      imp:n=1 $
between
 11-      c
 12-      20      0      660 -661 665 -666 504 -410      imp:n=1
fill=8(-13.7571 0 0) $ far
 13-      21      0      661 -662 665 -666 504 -410      imp:n=1
fill=8(-4.5857 0 0) $ lef
 14-      22      0      662 -663 665 -666 504 -410      imp:n=1
fill=9(4.5857 0 0) $ rig
 15-      23      0      663 -664 665 -666 504 -410      imp:n=1
fill=9(13.7571 0 0) $ far
 16-      24      like 23 but trcl=20 fill=9(25)      $ top
right
 17-      25      like 23 but trcl=21 fill=9(26)      $ top
left
 18-      26      like 23 but trcl=22 fill=9(27)      $
bottom right

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19-      27      like 23 but trcl=23 fill=9(28)          $
bottom left
20-      c
21-      998      2 -1.0      405 -404 420 -414          imp:n=1 $
reflector
22-      999      0          404:-420:414          imp:n=0
23-      c
24-      c      Universe 4: Loose Plate Box filled shifted right
25-      c
26-      400      2 -1.0      431 -432 435 -436 fill=7(0.657 0 0)  u=4
imp:n=1
27-      403      4 -7.94      (-431:432:-435:436) 430 -433 434 -437  u=4
imp:n=1 $ loose plate
28-      404      2 -1.0      -430:433:-434:437          u=4
imp:n=1 $ water
29-      c
30-      c      Universe 10: Loose Plate Box filled shifted left
31-      c
32-      1000     2 -1.0      431 -432 435 -436 fill=7(-0.657 0 0)
u=10 imp:n=1
33-      1003     4 -7.94      (-431:432:-435:436) 430 -433 434 -437
u=10 imp:n=1 $ loose pl
34-      1004     2 -1.0      -430:433:-434:437
u=10 imp:n=1 $ water
35-      c
36-      c      Universe 5: Fuel Plate
37-      c
38-      c 500     2 -1.0      -500          u=5 imp:n=1 $ void
below plate
39-      501      3 -2.7      505 -506 500 -501  u=5 imp:n=1 $ lower clad
40-      502      10 -5.485 505 -506 501 -502  u=5 imp:n=1 $ fuel meat
41-      503      3 -2.7      505 -506 502 -503  u=5 imp:n=1 $ upper clad
42-      504      2 -1.0      -505:506:-500:503  u=5 imp:n=1 $ water
43-      c
44-      c      Universe 6: Fuel Plate Lattice wide (25 plates)
45-      c
46-      600      0          -510 lat=1 fill=0:0 0:24 0:0
47-          5 24r
48-          u=6 imp:n=1
49-      c
50-      c      Universe 20: Fuel Plate Lattice narrow (6 plates)
51-      c
52-      2000     0          -2000 lat=1 fill=0:0 0:5 0:0 5 5 5 5 5 5
53-          u=20 imp:n=1
54-      c
55-      c      Universe 7: x-y
56-      c
57-      700      0          507 -508 fill=6(0 -2.6797 0)  u=7 imp:n=1 $
wide lattice
58-      701      0          509 -507 fill=20(0 -3.1369 0) u=7 imp:n=1 $
narrow lattice
59-      702      2 -1.0      -509:508          u=7 imp:n=1
60-      c
61-      c      Universe 8: Square fuel basket right shift

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62-      c
63-      800  0          650 -651 652 -653  fill=4(0.215 0 0)  u=8
imp:n=1
64-      801  4 -7.94   -650:651:-652:653                      u=8
imp:n=1 $ basket
65-      c
66-      c      Universe 9: Square fuel basket left shift
67-      c
68-      900  0          650 -651 652 -653  fill=10(-0.215 0 0) u=9
imp:n=1
69-      901  4 -7.94   -650:651:-652:653                      u=9
imp:n=1 $ basket
70-
71-      c Fuel Plate
72-      500 py -0.0381  $ cladding bottom, 0.005-in thick per SOW
73-      501 py -0.0254  $ fuel meat bottom, 1/2  0.020-in per
drawing
74-      502 py  0.0254  $ fuel meat top, 1/2  0.020-in per drawing
75-      503 py  0.0381  $ cladding bottom, 0.005-in thick per SOW
76-      504 pz 76.1822  $ fuel bottom
77-      505 px -3.1369  $ 2.47"/2
78-      506 px  3.1369  $ 2.47"/2
79-      507 py -2.7178   $ y extent of expanded plates
80-      508 py  3.2426   $ y extent of expanded plates
81-      509 py -5         $ y extent of compressed plates (dummy)
82-      c
83-      510 rpp -1000 1000 -0.1212 0.1212 -1000 1000 $ lattice
84-      c
85-      c cask surfaces
86-      c
87-      400      cz 20.32      $ IR cask
88-      401      cz 22.86      $ IR lead
89-      402      cz 43.18      $ OR lead
90-      403      cz 48.26      $ OR cask
91-      404      cz 78.74      $ 1 foot water reflector
92-      405      hex 0 0 -25.25 0 0 190.5355 0 48.27 0
93-      c
94-      410      pz 137.1422  $ bottom of lid
95-      411      pz 139.6822  $ steel
96-      412      pz 164.0154  $ lead
97-      413      pz 165.2854  $ steel
98-      414      pz 195.7654  $ 1 foot water reflector
99-      c
100-     420      pz -55.72     $ 1 foot water reflector
101-     421      pz -25.24     $ bottom of cask
102-     422      pz -22.7      $ steel
103-     423      pz -3.0912    $ lead
104-     424      pz 0          $ steel
105-     c
106-     c      loose plate basket surfaces
107-     c
108-     430      px -4.1021
109-     431      px -3.7846
110-     432      px  3.7846

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111-      433    px  4.1021
112-      434    py -3.4925
113-      435    py -3.1750
114-      436    py  3.1750
115-      437    py  3.4925
116-      c
117-      c      square fuel basket surfaces
118-      c
119-      650    px -4.318 $ inner
120-      651    px  4.318
121-      652    py -4.318
122-      653    py  4.318
123-      660    px -18.3428 $ outer
124-      661    px -9.1714
125-      662    px  0
126-      663    px  9.1714
127-      664    px 18.3428
128-      665    py -4.5857
129-      666    py  4.5857
130-      c
131-      2000   rpp -1000 1000 -0.0382 0.0382 -1000 1000 $ lattice
132-
133-      m2      1001.62c    2      $ water
134-              8016.62c    1
135-      mt2     lwtr.60t
136-      m3      13027.62c    1      $ Al
137-      m4      6000.66c    -0.08  $ SS-304
138-              14000.60c    -1.0
139-              15031.66c    -0.045
140-              24000.50c    -19.0
141-              25055.62c    -2.0
142-              26000.55c    -68.375
143-              28000.50c    -9.5
144-      m5      82000.50c    1      $ Pb
145-      m10     92235.69c    -0.661
146-              92238.69c    -2.654
147-              13027.62c    -1.908
148-              14000.60c    -0.261  $ fuel.
149-      m11     40000.66c    1
warning. material 11 is not used in the problem.
150-      c
151-      *tr20   0 0 0      60 30 90 150 60 90 $ 60 deg
CCW
152-      *tr21   0 0 0      120 30 90 210 120 90 $ 120 deg
CCW
153-      *tr22   0 0 0      60 150 90 30 60 90 $ 60 deg
CW
154-      *tr23   0 0 0      120 210 90 30 120 90 $ 120 deg
CW
155-      c
156-      *tr25   6.8786 11.9140 0 60 30 90 150 60 90 $ 60 deg
CCW
157-      *tr26  -6.8786 11.9140 0 120 30 90 210 120 90 $ 120 deg
CCW

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158-      *tr27      6.8786 -11.9140 0  60  150 90 30  60  90 $ 60  deg
CW
159-      *tr28     -6.8786 -11.9140 0  120 210 90 30  120 90 $ 120 deg
CW
160-      c
161-      tr30      0.647 0 0
162-      tr31     -0.647 0 0
163-      mode      n
164-      kcode     5000 1.0 50 1050
165-      sdef      cel=d1 x=d2 y=d3 z=d4
166-      si1       L 20:800:400:700:600:502 21:800:400:700:600:502

```

comment. using level-zero-first for cell path on si card.

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167-      22:900:1000:700:600:502 23:900:1000:700:600:502
168-      24:900:1000:700:600:502 25:900:1000:700:600:502
169-      26:900:1000:700:600:502 27:900:1000:700:600:502
170-      sp1       1 1 1 1  1 1 1 1
171-      si2      -3.1269 3.1269
172-      sp2       0 1
173-      si3      -0.0254 0.0254
174-      sp3       0 1
175-      si4       78 137
176-      sp4       0 1

```

warning.

warning. Using lattice speed tally modifications.

warning. User should review input deck and verify the following are true:

warning. 1) Nested lattices are not tallied over.

warning. 2) A cell with the fill keyword does not reference its own universe.

warning. 3) Lattice index range on tally must match corresponding fill range.

warning. Failure to meet these criteria may result in silent wrong answers.

warning. See the Lattice Speed Tally Enhancement report: LA-UR-04-3400

warning.

surface 504 and surface 24504 are the same. 24504 will be deleted.

surface 504 and surface 25504 are the same. 25504 will be deleted.

surface 504 and surface 26504 are the same. 26504 will be
deleted.

surface 504 and surface 27504 are the same. 27504 will be
deleted.

surface 510.1 and surface 2000.1 are the same. 2000.1 will be
deleted.

surface 510.2 and surface 2000.2 are the same. 2000.2 will be
deleted.

surface 510.5 and surface 2000.5 are the same. 2000.5 will be
deleted.

surface 510.6 and surface 2000.6 are the same. 2000.6 will be
deleted.

surface 410 and surface 24410 are the same. 24410 will be
deleted.

surface 410 and surface 25410 are the same. 25410 will be
deleted.

surface 410 and surface 26410 are the same. 26410 will be
deleted.

surface 410 and surface 27410 are the same. 27410 will be
deleted.

surface 24665 and surface 27666 are the same. 27666 will be
deleted.

surface 24666 and surface 27665 are the same. 27665 will be
deleted.

surface 25665 and surface 26666 are the same. 26666 will be
deleted.

surface 25666 and surface 26665 are the same. 26665 will be
deleted.

comment. 16 surfaces were deleted for being the same as others.

comment. total fission nubar data are being used.

warning. tr 30 card unused.

warning. tr 31 card unused.

warning. 3 materials had unnormalized fractions. print table 40.
1cells
print table 60

neutron importance	cell	mat	atom	gram	volume	mass	pieces
			density	density			
1	10	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
2	11	4	8.75840E-02	7.94000E+00	5.64988E+04	4.48600E+05	1
1.0000E+00							
3	12	5	3.29849E-02	1.13500E+01	8.59297E+05	9.75302E+06	1
1.0000E+00							
4	13	4	8.75840E-02	7.94000E+00	3.00354E+05	2.38481E+06	1
1.0000E+00							
5	14	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
6	20	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
7	21	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
8	22	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
9	23	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
10	24	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
11	25	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
12	26	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
13	27	0	0.00000E+00	0.00000E+00	5.12762E+03	0.00000E+00	0
1.0000E+00							
14	998	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
15	999	0	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
0.0000E+00							
16	400	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
17	403	4	8.75840E-02	7.94000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
18	404	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
19	1000	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
20	1003	4	8.75840E-02	7.94000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
21	1004	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
22	501	3	6.02616E-02	2.70000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
23	502	10	5.65990E-02	5.48500E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							
24	503	3	6.02616E-02	2.70000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00							

25	504	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								
26	600	0	0.00000E+00	0.00000E+00	9.69600E+05	0.00000E+00	0.00000E+00	0
1.0000E+00								
27	2000	0	0.00000E+00	0.00000E+00	3.05600E+05	0.00000E+00	0.00000E+00	0
1.0000E+00								
28	700	0	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								
29	701	0	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								
30	702	2s	1.00309E-01	1.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								
31	800	0	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								
32	801	4	8.75840E-02	7.94000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								
33	900	0	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								
34	901	4	8.75840E-02	7.94000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0
1.0000E+00								

total 2.53237E+06 1.25864E+07

```

*****
* Random Number Generator = 1 *
* Random Number Seed = 19073486328125 *
* Random Number Multiplier = 19073486328125 *
* Random Number Adder = 0 *
* Random Number Bits Used = 48 *
* Random Number Stride = 152917 *
*****

```

14 warning messages so far.
 1cross-section tables
 print table 100

table	length	
tables from file actia		
1001.62c	5202	1-h-1 at 293.6K from endf-vi.8 njoy99.50
mat 125	12/05/01	
8016.62c	170541	8-o-16 at 293.6K from endf-vi.8 njoy99.50
mat 825	12/05/01	
13027.62c	75363	13-al-27 at 293.6K from endf-vi.8 njoy99.50
mat1325	12/17/01	
25055.62c	134565	25-mn-55 at 293.6K from endf/b-vi.8 njoy99.50
mat2525	02/11/02	

tables from file endf66a		
6000.66c	44688	6-c-0 at 293.6K from endf-vi.6 njoy99.50
mat 600	07/13/01	

15031.66c 24697 15-p-31 at 293.6K from endf-vi.6 njoy99.50
mat1525 07/24/01

tables from file endf60

14000.60c 51392 14-si-nat from endf/b-vi
mat1400 11/25/93

tables from file rmccs

24000.50c 89104 njoy
(1324) 79/06/21.
26000.55c 84136 njoy
(260) 10/21/82
28000.50c 82267 njoy
(1328) 79/06/21.
82000.50c 28695 njoy
(1382) 03/10/82

tables from file t16_2003

92235.69c 587997 92-u-235 at 293.6K from t16 u235la9d njoy99.50
total nu mat9228 07/02/03
probability tables used from 2.2500E-03 to 2.5000E-
02 mev.

92238.69c 713320 92-u-238 at 293.6K from t16 u238la8h njoy99.50
total nu mat9237 07/02/03
probability tables used from 1.0000E-02 to 1.4903E-
01 mev.

tables from file sab2002

lwtr.60t 63221 1-h-1 in h2o at 293.6k from endf-vi.5 njoy99.0
1001 0 0 09/13/99

total 2155188

dump no. 1 on file runtpe nps = 0 coll =
0 ctm = 0.00 nrn = 0

14 warning messages so far.
1estimated keff results by cycle
print table 175

cycle 1 k(collision) 0.615710 prompt removal lifetime(abs)
6.8559E+03 source points generated 3093

cycle 2 k(collision) 0.628439 prompt removal lifetime(abs)
7.2132E+03 source points generated 5094

cycle	3	k(collision)	0.620053	prompt removal lifetime(abs)
7.0111E+03		source points generated		4889
cycle	4	k(collision)	0.645962	prompt removal lifetime(abs)
6.8085E+03		source points generated		5188
cycle	5	k(collision)	0.642508	prompt removal lifetime(abs)
6.7897E+03		source points generated		4967
cycle	6	k(collision)	0.630561	prompt removal lifetime(abs)
6.8402E+03		source points generated		4900
cycle	7	k(collision)	0.626457	prompt removal lifetime(abs)
6.9880E+03		source points generated		4979
cycle	8	k(collision)	0.632439	prompt removal lifetime(abs)
6.9514E+03		source points generated		5032
cycle	9	k(collision)	0.636378	prompt removal lifetime(abs)
6.9361E+03		source points generated		5052
cycle	10	k(collision)	0.638937	prompt removal lifetime(abs)
6.9086E+03		source points generated		5017
cycle	11	k(collision)	0.643058	prompt removal lifetime(abs)
6.9936E+03		source points generated		5054
cycle	12	k(collision)	0.636151	prompt removal lifetime(abs)
6.9345E+03		source points generated		4925
cycle	13	k(collision)	0.642783	prompt removal lifetime(abs)
6.8977E+03		source points generated		5081
cycle	14	k(collision)	0.639201	prompt removal lifetime(abs)
6.9800E+03		source points generated		4949
cycle	15	k(collision)	0.640390	prompt removal lifetime(abs)
6.8701E+03		source points generated		5007
cycle	16	k(collision)	0.642503	prompt removal lifetime(abs)
6.8271E+03		source points generated		4985
cycle	17	k(collision)	0.635476	prompt removal lifetime(abs)
6.8450E+03		source points generated		4938
cycle	18	k(collision)	0.643509	prompt removal lifetime(abs)
7.0071E+03		source points generated		5063
cycle	19	k(collision)	0.663648	prompt removal lifetime(abs)
6.7620E+03		source points generated		5113
cycle	20	k(collision)	0.639585	prompt removal lifetime(abs)
6.8037E+03		source points generated		4829

cycle	21	k(collision)	0.631993	prompt removal lifetime(abs)
6.7216E+03		source points generated	4938	
cycle	22	k(collision)	0.650679	prompt removal lifetime(abs)
6.6940E+03		source points generated	5119	
cycle	23	k(collision)	0.655594	prompt removal lifetime(abs)
6.9172E+03		source points generated	5024	
cycle	24	k(collision)	0.652693	prompt removal lifetime(abs)
6.7193E+03		source points generated	4960	
cycle	25	k(collision)	0.649761	prompt removal lifetime(abs)
6.8580E+03		source points generated	4989	
cycle	26	k(collision)	0.655348	prompt removal lifetime(abs)
6.9744E+03		source points generated	5018	
cycle	27	k(collision)	0.632870	prompt removal lifetime(abs)
6.7928E+03		source points generated	4824	
cycle	28	k(collision)	0.638572	prompt removal lifetime(abs)
6.8593E+03		source points generated	5089	
cycle	29	k(collision)	0.650110	prompt removal lifetime(abs)
6.6272E+03		source points generated	5077	
cycle	30	k(collision)	0.644439	prompt removal lifetime(abs)
6.7093E+03		source points generated	4916	
cycle	31	k(collision)	0.643487	prompt removal lifetime(abs)
6.9848E+03		source points generated	5026	
cycle	32	k(collision)	0.637198	prompt removal lifetime(abs)
6.7496E+03		source points generated	4944	
cycle	33	k(collision)	0.636324	prompt removal lifetime(abs)
6.8557E+03		source points generated	5005	
cycle	34	k(collision)	0.657219	prompt removal lifetime(abs)
6.9021E+03		source points generated	5152	
cycle	35	k(collision)	0.618626	prompt removal lifetime(abs)
6.9194E+03		source points generated	4711	
cycle	36	k(collision)	0.640896	prompt removal lifetime(abs)
6.8043E+03		source points generated	5180	
cycle	37	k(collision)	0.648070	prompt removal lifetime(abs)
6.6238E+03		source points generated	5088	
cycle	38	k(collision)	0.639858	prompt removal lifetime(abs)
6.6778E+03		source points generated	4941	

cycle	39	k(collision)	0.637446	prompt removal lifetime(abs)
7.0031E+03		source points generated	4950	
cycle	40	k(collision)	0.644241	prompt removal lifetime(abs)
6.6683E+03		source points generated	5067	
cycle	41	k(collision)	0.647503	prompt removal lifetime(abs)
6.9390E+03		source points generated	4993	
cycle	42	k(collision)	0.621615	prompt removal lifetime(abs)
6.7618E+03		source points generated	4801	
cycle	43	k(collision)	0.637433	prompt removal lifetime(abs)
6.8916E+03		source points generated	5132	
cycle	44	k(collision)	0.638117	prompt removal lifetime(abs)
6.5300E+03		source points generated	5014	
cycle	45	k(collision)	0.650315	prompt removal lifetime(abs)
6.8323E+03		source points generated	5092	
cycle	46	k(collision)	0.650925	prompt removal lifetime(abs)
6.9347E+03		source points generated	5010	
cycle	47	k(collision)	0.619322	prompt removal lifetime(abs)
6.9316E+03		source points generated	4706	
cycle	48	k(collision)	0.639334	prompt removal lifetime(abs)
6.9368E+03		source points generated	5156	
cycle	49	k(collision)	0.624227	prompt removal lifetime(abs)
6.8868E+03		source points generated	4867	
cycle	50	k(collision)	0.654200	prompt removal lifetime(abs)
6.6985E+03		source points generated	5199	
cycle	51	k(collision)	0.648318	prompt removal lifetime(abs)
6.7001E+03		source points generated	4980	

estimator	cycle	52	ave of	2 cycles	combination
simple average		combined average		corr	
k(collision)		0.640122		0.644220 0.0064	k(col/abs)
0.000000 0.0000		0.000000 0.0000		0.0000	
k(absorption)		0.636698		0.643307 0.0103	k(abs/tk ln)
0.000000 0.0000		0.000000 0.0000		0.0000	
k(trk length)		0.622012		0.633340 0.0179	k(tk ln/col)
0.000000 0.0000		0.000000 0.0000		0.0000	
rem life(col)		6.8762E+03		6.7881E+03 0.0130	
rem life(abs)		6.8627E+03		6.7814E+03 0.0120	life(col/abs)
0.0000E+00 0.0000		0.0000E+00 0.0000		0.0000	
source points generated		4976			

estimator	cycle	53	ave of	3 cycles	combination
simple average		combined average		corr	

k(collision)	0.644936	0.644459	0.0037	k(col/abs)
0.644017	0.0048	0.645903	0.0005	0.9995
k(absorption)	0.644111	0.643575	0.0059	k(abs/tk ln)
0.640112	0.0086	0.648233	0.0091	0.9217
k(trk length)	0.643267	0.636649	0.0115	k(tk ln/col)
0.640554	0.0075	0.647544	0.0039	0.9331
rem life(col)	6.8438E+03	6.8067E+03	0.0080	
rem life(abs)	6.8860E+03	6.8163E+03	0.0086	life(col/abs)
6.8115E+03	0.0082	6.8031E+03	0.0121	0.9586
source points generated	5011			

estimator	cycle	54	ave of	4 cycles	combination
simple average	combined average		corr		
k(collision)	0.644455	0.644458	0.0026	k(col/abs)	
0.644056	0.0034	0.645762	0.0004	0.9991	
k(absorption)	0.643895	0.643655	0.0042	k(abs/tk ln)	
0.641571	0.0065	0.645179	0.0051	0.8224	
k(trk length)	0.647997	0.639486	0.0092	k(tk ln/col)	
0.641972	0.0057	0.645685	0.0027	0.8182	
rem life(col)	6.8498E+03	6.8174E+03	0.0058	k(col/abs/tk ln)	
0.642533	0.0051	0.645749	0.0006		
rem life(abs)	6.8584E+03	6.8268E+03	0.0063	life(col/abs/tl)	
6.8223E+03	0.0052	6.8115E+03	0.0066		
source points generated	5000				

estimator	cycle	55	ave of	5 cycles	combination
simple average	combined average		corr		
k(collision)	0.644784	0.644523	0.0020	k(col/abs)	
0.645007	0.0030	0.644229	0.0021	0.7837	
k(absorption)	0.652831	0.645490	0.0043	k(abs/tk ln)	
0.642689	0.0053	0.645907	0.0064	0.6740	
k(trk length)	0.641495	0.639888	0.0072	k(tk ln/col)	
0.642205	0.0044	0.645665	0.0020	0.8184	
rem life(col)	6.6728E+03	6.7885E+03	0.0062	k(col/abs/tk ln)	
0.643300	0.0041	0.645369	0.0026		
rem life(abs)	6.7084E+03	6.8031E+03	0.0060	life(col/abs/tl)	
6.8019E+03	0.0050	6.8090E+03	0.0049		
source points generated	5042				

estimator	cycle	56	ave of	6 cycles	combination
simple average	combined average		corr		
k(collision)	0.644038	0.644442	0.0017	k(col/abs)	
0.645066	0.0025	0.644085	0.0018	0.7718	
k(absorption)	0.646693	0.645691	0.0035	k(abs/tk ln)	
0.640587	0.0054	0.645568	0.0052	0.3684	
k(trk length)	0.613455	0.635482	0.0091	k(tk ln/col)	
0.639962	0.0051	0.645256	0.0021	0.5867	
rem life(col)	6.8959E+03	6.8064E+03	0.0057	k(col/abs/tk ln)	
0.641872	0.0040	0.644875	0.0023		
rem life(abs)	6.9188E+03	6.8224E+03	0.0056	life(col/abs/tl)	
6.8208E+03	0.0049	6.8224E+03	0.0060		
source points generated	4989				

estimator	cycle	57	ave of	7 cycles	combination
simple average	combined average		corr		
k(collision)	0.620764		0.641060	0.0055	k(col/abs)
0.641730	0.0056	0.640905	0.0064	0.9340	
k(absorption)	0.622664		0.642401	0.0059	k(abs/tk ln)
0.640523	0.0046	0.641107	0.0047	-0.3119	
k(trk length)	0.657622		0.638645	0.0091	k(tk ln/col)
0.639852	0.0043	0.640271	0.0041	-0.3977	
rem life(col)	6.8070E+03		6.8065E+03	0.0048	k(col/abs/tk ln)
0.640702	0.0039	0.639875	0.0049		
rem life(abs)	6.8199E+03		6.8220E+03	0.0048	life(col/abs/tl)
6.8238E+03	0.0042	6.8334E+03	0.0058		
source points generated		4833			

estimator	cycle	58	ave of	8 cycles	combination
simple average	combined average		corr		
k(collision)	0.653150		0.642571	0.0053	k(col/abs)
0.642607	0.0050	0.642613	0.0054	0.8663	
k(absorption)	0.644334		0.642643	0.0052	k(abs/tk ln)
0.641530	0.0043	0.641929	0.0041	-0.2693	
k(trk length)	0.652819		0.640417	0.0083	k(tk ln/col)
0.641494	0.0045	0.641887	0.0044	-0.1880	
rem life(col)	6.7702E+03		6.8020E+03	0.0042	k(col/abs/tk ln)
0.641877	0.0038	0.641936	0.0045		
rem life(abs)	6.7969E+03		6.8189E+03	0.0041	life(col/abs/tl)
6.8220E+03	0.0036	6.8338E+03	0.0052		
source points generated		5282			

estimator	cycle	59	ave of	9 cycles	combination
simple average	combined average		corr		
k(collision)	0.643057		0.642625	0.0046	k(col/abs)
0.642674	0.0044	0.642682	0.0047	0.8663	
k(absorption)	0.643363		0.642723	0.0045	k(abs/tk ln)
0.642683	0.0042	0.642701	0.0038	-0.2317	
k(trk length)	0.660462		0.642644	0.0081	k(tk ln/col)
0.642635	0.0043	0.642630	0.0040	-0.1622	
rem life(col)	6.8749E+03		6.8101E+03	0.0039	k(col/abs/tk ln)
0.642664	0.0036	0.642683	0.0040		
rem life(abs)	6.8722E+03		6.8248E+03	0.0038	life(col/abs/tl)
6.8267E+03	0.0033	6.8366E+03	0.0041		
source points generated		4888			

estimator	cycle	60	ave of	10 cycles	combination
simple average	combined average		corr		
k(collision)	0.635417		0.641904	0.0043	k(col/abs)
0.641871	0.0042	0.641870	0.0044	0.8757	
k(absorption)	0.633874		0.641838	0.0043	k(abs/tk ln)
0.641946	0.0039	0.641900	0.0036	-0.1775	
k(trk length)	0.636746		0.642054	0.0073	k(tk ln/col)
0.641979	0.0040	0.641946	0.0037	-0.1227	
rem life(col)	6.6569E+03		6.7947E+03	0.0042	k(col/abs/tk ln)
0.641932	0.0034	0.641914	0.0038		
rem life(abs)	6.6355E+03		6.8059E+03	0.0044	life(col/abs/tl)
6.8106E+03	0.0038	6.8213E+03	0.0038		

source points generated 4951

estimator	cycle	61	ave of	11 cycles	combination
simple average		combined average		corr	
k(collision)		0.639564		0.641691 0.0039	k(col/abs)
0.641567 0.0038		0.641572	0.0040	0.8751	
k(absorption)		0.637480		0.641442 0.0039	k(abs/tk ln)
0.642216 0.0036		0.641890	0.0032	-0.2049	
k(trk length)		0.652355		0.642991 0.0068	k(tk ln/col)
0.642341 0.0037		0.642051	0.0034	-0.1376	
rem life(col)		6.6767E+03		6.7840E+03 0.0041	k(col/abs/tk ln)
0.642041 0.0031		0.641932	0.0034		
rem life(abs)		6.7031E+03		6.7965E+03 0.0042	life(col/abs/tl)
6.8030E+03 0.0036		6.8217E+03	0.0036		

source points generated 5033

estimator	cycle	62	ave of	12 cycles	combination
simple average		combined average		corr	
k(collision)		0.650291		0.642408 0.0037	k(col/abs)
0.641867 0.0035		0.641749	0.0038	0.8193	
k(absorption)		0.640058		0.641326 0.0036	k(abs/tk ln)
0.641988 0.0033		0.641707	0.0030	-0.1996	
k(trk length)		0.638897		0.642650 0.0062	k(tk ln/col)
0.642529 0.0034		0.642479	0.0031	-0.1564	
rem life(col)		6.7016E+03		6.7771E+03 0.0039	k(col/abs/tk ln)
0.642128 0.0028		0.641948	0.0031		
rem life(abs)		6.7008E+03		6.7886E+03 0.0040	life(col/abs/tl)
6.7964E+03 0.0034		6.8205E+03	0.0034		

source points generated 5076

estimator	cycle	63	ave of	13 cycles	combination
simple average		combined average		corr	
k(collision)		0.640172		0.642236 0.0035	k(col/abs)
0.641802 0.0032		0.641703	0.0034	0.8151	
k(absorption)		0.641879		0.641369 0.0033	k(abs/tk ln)
0.641761 0.0030		0.641592	0.0027	-0.2005	
k(trk length)		0.636194		0.642153 0.0058	k(tk ln/col)
0.642195 0.0031		0.642212	0.0029	-0.1441	
rem life(col)		6.9866E+03		6.7933E+03 0.0043	k(col/abs/tk ln)
0.641919 0.0026		0.641773	0.0029		
rem life(abs)		6.9472E+03		6.8008E+03 0.0041	life(col/abs/tl)
6.8085E+03 0.0036		6.8450E+03	0.0033		

source points generated 4934

estimator	cycle	64	ave of	14 cycles	combination
simple average		combined average		corr	
k(collision)		0.623631		0.640907 0.0038	k(col/abs)
0.640741 0.0034		0.640603	0.0035	0.8379	
k(absorption)		0.630254		0.640575 0.0033	k(abs/tk ln)
0.640082 0.0038		0.640400	0.0032	0.0753	
k(trk length)		0.606248		0.639588 0.0067	k(tk ln/col)
0.640248 0.0042		0.640665	0.0038	0.2287	
rem life(col)		6.8980E+03		6.8007E+03 0.0041	k(col/abs/tk ln)
0.640357 0.0034		0.640354	0.0033		

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rem life(abs)    6.8944E+03    6.8075E+03 0.0039    life(col/abs/tl)
6.8153E+03 0.0035    6.8524E+03 0.0033
source points generated    4872

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estimator    cycle    65    ave of    15 cycles    combination
simple average    combined average    corr
k(collision)    0.640900    0.640907 0.0036    k(col/abs)
0.640806 0.0032    0.640725 0.0032    0.8361
k(absorption)    0.642542    0.640706 0.0031    k(abs/tk ln)
0.639662 0.0036    0.640342 0.0030    0.0573
k(trk length)    0.625024    0.638617 0.0064    k(tk ln/col)
0.639762 0.0040    0.640508 0.0035    0.2222
rem life(col)    6.8510E+03    6.8041E+03 0.0039    k(col/abs/tk ln)
0.640077 0.0032    0.640299 0.0031
rem life(abs)    6.8290E+03    6.8089E+03 0.0036    life(col/abs/tl)
6.8177E+03 0.0033    6.8559E+03 0.0032
source points generated    5129

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estimator    cycle    66    ave of    16 cycles    combination
simple average    combined average    corr
k(collision)    0.631801    0.640338 0.0034    k(col/abs)
0.640418 0.0030    0.640493 0.0030    0.8314
k(absorption)    0.637400    0.640499 0.0029    k(abs/tk ln)
0.639057 0.0035    0.640041 0.0029    0.0832
k(trk length)    0.622568    0.637614 0.0062    k(tk ln/col)
0.638976 0.0039    0.639912 0.0035    0.2730
rem life(col)    6.9249E+03    6.8116E+03 0.0038    k(col/abs/tk ln)
0.639484 0.0032    0.640018 0.0029
rem life(abs)    6.9098E+03    6.8152E+03 0.0035    life(col/abs/tl)
6.8244E+03 0.0032    6.8625E+03 0.0032
source points generated    4906

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estimator    cycle    67    ave of    17 cycles    combination
simple average    combined average    corr
k(collision)    0.646139    0.640679 0.0033    k(col/abs)
0.640510 0.0029    0.640369 0.0028    0.8024
k(absorption)    0.637814    0.640342 0.0027    k(abs/tk ln)
0.639398 0.0034    0.640042 0.0027    0.0610
k(trk length)    0.651904    0.638455 0.0060    k(tk ln/col)
0.639567 0.0038    0.640364 0.0033    0.2985
rem life(col)    6.9122E+03    6.8176E+03 0.0036    k(col/abs/tk ln)
0.639825 0.0030    0.639951 0.0027
rem life(abs)    6.9411E+03    6.8226E+03 0.0035    life(col/abs/tl)
6.8291E+03 0.0031    6.8583E+03 0.0028
source points generated    5110

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estimator    cycle    68    ave of    18 cycles    combination
simple average    combined average    corr
k(collision)    0.656011    0.641531 0.0034    k(col/abs)
0.641126 0.0029    0.640689 0.0028    0.8068
k(absorption)    0.647186    0.640722 0.0027    k(abs/tk ln)
0.639378 0.0032    0.640260 0.0025    0.0331
k(trk length)    0.630877    0.638034 0.0057    k(tk ln/col)
0.639782 0.0036    0.640826 0.0033    0.2264

```


rem life(col)	6.7030E+03	6.8112E+03	0.0036	k(col/abs/tk ln)
0.640095	0.0029	0.640027	0.0026	
rem life(abs)	6.7719E+03	6.8198E+03	0.0033	life(col/abs/tl)
6.8268E+03	0.0029	6.8570E+03	0.0028	
source points generated	5063			

estimator	cycle	69	ave of	19 cycles	combination
simple average	combined average		corr		
k(collision)	0.639288		0.641413	0.0032	k(col/abs)
0.640993	0.0027	0.640542	0.0026	0.8073	
k(absorption)	0.637888		0.640573	0.0025	k(abs/tk ln)
0.639588	0.0030	0.640232	0.0024	0.0174	
k(trk length)	0.648866		0.638604	0.0054	k(tk ln/col)
0.640008	0.0034	0.640849	0.0031	0.2135	
rem life(col)	6.9884E+03		6.8205E+03	0.0036	k(col/abs/tk ln)
0.640196	0.0027	0.640008	0.0025		
rem life(abs)	6.9671E+03		6.8275E+03	0.0033	life(col/abs/tl)
6.8325E+03	0.0029	6.8525E+03	0.0024		
source points generated	4921				

estimator	cycle	70	ave of	20 cycles	combination
simple average	combined average		corr		
k(collision)	0.627496		0.640717	0.0032	k(col/abs)
0.640261	0.0028	0.639810	0.0028	0.8308	
k(absorption)	0.625234		0.639806	0.0027	k(abs/tk ln)
0.639066	0.0030	0.639512	0.0025	0.0531	
k(trk length)	0.633036		0.638326	0.0052	k(tk ln/col)
0.639521	0.0033	0.640187	0.0031	0.2287	
rem life(col)	7.0335E+03		6.8312E+03	0.0038	k(col/abs/tk ln)
0.639616	0.0027	0.639297	0.0026		
rem life(abs)	7.0338E+03		6.8378E+03	0.0035	life(col/abs/tl)
6.8417E+03	0.0031	6.8604E+03	0.0025		
source points generated	4933				

estimator	cycle	71	ave of	21 cycles	combination
simple average	combined average		corr		
k(collision)	0.661853		0.641723	0.0034	k(col/abs)
0.641104	0.0030	0.640279	0.0029	0.8579	
k(absorption)	0.654087		0.640486	0.0028	k(abs/tk ln)
0.639579	0.0029	0.640096	0.0026	0.0908	
k(trk length)	0.645593		0.638672	0.0050	k(tk ln/col)
0.640197	0.0033	0.640894	0.0033	0.2521	
rem life(col)	6.7698E+03		6.8282E+03	0.0036	k(col/abs/tk ln)
0.640294	0.0028	0.639589	0.0027		
rem life(abs)	6.7950E+03		6.8358E+03	0.0033	life(col/abs/tl)
6.8395E+03	0.0029	6.8586E+03	0.0024		
source points generated	5241				

estimator	cycle	72	ave of	22 cycles	combination
simple average	combined average		corr		
k(collision)	0.643743		0.641815	0.0033	k(col/abs)
0.641205	0.0028	0.640392	0.0028	0.8581	
k(absorption)	0.642877		0.640594	0.0026	k(abs/tk ln)
0.639698	0.0028	0.640209	0.0025	0.0933	

k(trk length)	0.641518	0.638801	0.0047	k(tk ln/col)
0.640308	0.0032	0.640997	0.0031	0.2535
rem life(col)	6.7197E+03	6.8233E+03	0.0035	k(col/abs/tk ln)
0.640404	0.0027	0.639712	0.0025	
rem life(abs)	6.7106E+03	6.8301E+03	0.0033	life(col/abs/tl)
6.8351E+03	0.0029	6.8578E+03	0.0023	
source points generated	4878			

estimator	cycle	73	ave of	23 cycles	combination
simple average	combined average		corr		
k(collision)	0.617578		0.640761	0.0035	k(col/abs)
0.640081	0.0032	0.639387	0.0033	0.8873	
k(absorption)	0.613142		0.639401	0.0031	k(abs/tk ln)
0.639134	0.0028	0.639233	0.0027	0.0612	
k(trk length)	0.640340		0.638868	0.0045	k(tk ln/col)
0.639815	0.0032	0.640099	0.0032	0.2136	
rem life(col)	6.6345E+03		6.8151E+03	0.0036	k(col/abs/tk ln)
0.639677	0.0028	0.638761	0.0028		
rem life(abs)	6.6359E+03		6.8217E+03	0.0034	life(col/abs/tl)
6.8283E+03	0.0029	6.8568E+03	0.0022		
source points generated	4832				

estimator	cycle	74	ave of	24 cycles	combination
simple average	combined average		corr		
k(collision)	0.635358		0.640536	0.0034	k(col/abs)
0.640063	0.0031	0.639644	0.0031	0.8682	
k(absorption)	0.643927		0.639589	0.0030	k(abs/tk ln)
0.638966	0.0027	0.639200	0.0026	0.0416	
k(trk length)	0.626267		0.638343	0.0044	k(tk ln/col)
0.639440	0.0031	0.639791	0.0031	0.2280	
rem life(col)	6.6837E+03		6.8096E+03	0.0035	k(col/abs/tk ln)
0.639489	0.0027	0.638865	0.0027		
rem life(abs)	6.6495E+03		6.8145E+03	0.0034	life(col/abs/tl)
6.8216E+03	0.0030	6.8489E+03	0.0024		
source points generated	5183				

estimator	cycle	75	ave of	25 cycles	combination
simple average	combined average		corr		
k(collision)	0.631907		0.640191	0.0033	k(col/abs)
0.639892	0.0030	0.639624	0.0030	0.8564	
k(absorption)	0.639667		0.639593	0.0029	k(abs/tk ln)
0.638820	0.0026	0.639114	0.0025	0.0412	
k(trk length)	0.630945		0.638047	0.0043	k(tk ln/col)
0.639119	0.0030	0.639458	0.0030	0.2413	
rem life(col)	6.8661E+03		6.8119E+03	0.0034	k(col/abs/tk ln)
0.639277	0.0026	0.638873	0.0025		
rem life(abs)	6.8571E+03		6.8162E+03	0.0033	life(col/abs/tl)
6.8235E+03	0.0029	6.8511E+03	0.0023		
source points generated	4972				

estimator	cycle	76	ave of	26 cycles	combination
simple average	combined average		corr		
k(collision)	0.645347		0.640389	0.0032	k(col/abs)
0.639958	0.0029	0.639582	0.0029	0.8481	

k(absorption)	0.637860	0.639526	0.0028	k(abs/tk ln)
0.638903	0.0025	0.639141	0.0024	0.0377
k(trk length)	0.644086	0.638279	0.0041	k(tk ln/col)
0.639334	0.0029	0.639670	0.0029	0.2478
rem life(col)	7.0084E+03	6.8194E+03	0.0034	k(col/abs/tk ln)
0.639398	0.0025	0.638837	0.0025	
rem life(abs)	7.0388E+03	6.8248E+03	0.0034	life(col/abs/tl)
6.8305E+03	0.0029	6.8542E+03	0.0022	
source points generated	5111			

estimator	cycle	77	ave of	27 cycles	combination
simple average	combined average		corr		
k(collision)	0.644188	0.640530	0.0031	k(col/abs)	
0.640181	0.0028	0.639907	0.0028	0.8453	
k(absorption)	0.647775	0.639831	0.0027	k(abs/tk ln)	
0.639368	0.0025	0.639558	0.0024	0.0783	
k(trk length)	0.655166	0.638905	0.0041	k(tk ln/col)	
0.639717	0.0028	0.640006	0.0028	0.2571	
rem life(col)	6.8451E+03	6.8204E+03	0.0033	k(col/abs/tk ln)	
0.639755	0.0025	0.639395	0.0024		
rem life(abs)	6.8420E+03	6.8254E+03	0.0033	life(col/abs/tl)	
6.8313E+03	0.0028	6.8557E+03	0.0021		
source points generated	4962				

estimator	cycle	78	ave of	28 cycles	combination
simple average	combined average		corr		
k(collision)	0.637710	0.640429	0.0030	k(col/abs)	
0.640124	0.0027	0.639883	0.0027	0.8445	
k(absorption)	0.639453	0.639818	0.0026	k(abs/tk ln)	
0.639226	0.0025	0.639472	0.0023	0.0787	
k(trk length)	0.631323	0.638634	0.0039	k(tk ln/col)	
0.639532	0.0028	0.639857	0.0027	0.2609	
rem life(col)	6.6332E+03	6.8137E+03	0.0033	k(col/abs/tk ln)	
0.639627	0.0024	0.639317	0.0024		
rem life(abs)	6.6260E+03	6.8183E+03	0.0033	life(col/abs/tl)	
6.8263E+03	0.0028	6.8560E+03	0.0021		
source points generated	4956				

estimator	cycle	79	ave of	29 cycles	combination
simple average	combined average		corr		
k(collision)	0.643273	0.640527	0.0029	k(col/abs)	
0.640315	0.0026	0.640169	0.0026	0.8398	
k(absorption)	0.648070	0.640103	0.0026	k(abs/tk ln)	
0.639626	0.0024	0.639834	0.0023	0.1118	
k(trk length)	0.653584	0.639149	0.0039	k(tk ln/col)	
0.639838	0.0027	0.640107	0.0026	0.2659	
rem life(col)	6.7974E+03	6.8131E+03	0.0032	k(col/abs/tk ln)	
0.639926	0.0024	0.639774	0.0023		
rem life(abs)	6.7665E+03	6.8165E+03	0.0032	life(col/abs/tl)	
6.8256E+03	0.0027	6.8577E+03	0.0021		
source points generated	5075				

estimator	cycle	80	ave of	30 cycles	combination
simple average	combined average		corr		

k(collision)	0.635998	0.640376	0.0028	k(col/abs)
0.640040	0.0026	0.639868	0.0026	0.8321
k(absorption)	0.628120	0.639703	0.0026	k(abs/tk ln)
0.639489	0.0024	0.639575	0.0022	0.0954
k(trk length)	0.642940	0.639276	0.0038	k(tk ln/col)
0.639826	0.0026	0.640037	0.0025	0.2602
rem life(col)	6.7742E+03	6.8118E+03	0.0031	k(col/abs/tk ln)
0.639785	0.0023	0.639534	0.0023	
rem life(abs)	6.7986E+03	6.8159E+03	0.0031	life(col/abs/tl)
6.8247E+03	0.0026	6.8564E+03	0.0020	
source points generated	4950			

estimator	cycle	81	ave of	31 cycles	combination
simple average	combined average		corr		
k(collision)	0.668908	0.641297	0.0031	k(col/abs)	
0.640672	0.0027	0.640078	0.0026	0.8174	
k(absorption)	0.650356	0.640047	0.0025	k(abs/tk ln)	
0.640116	0.0025	0.640083	0.0023	0.1641	
k(trk length)	0.667438	0.640184	0.0039	k(tk ln/col)	
0.640740	0.0029	0.640952	0.0029	0.3851	
rem life(col)	6.7049E+03	6.8084E+03	0.0031	k(col/abs/tk ln)	
0.640509	0.0025	0.639744	0.0024		
rem life(abs)	6.7377E+03	6.8134E+03	0.0030	life(col/abs/tl)	
6.8217E+03	0.0026	6.8531E+03	0.0021		
source points generated	5241				

estimator	cycle	82	ave of	32 cycles	combination
simple average	combined average		corr		
k(collision)	0.637029	0.641163	0.0030	k(col/abs)	
0.640433	0.0026	0.639823	0.0026	0.8114	
k(absorption)	0.629006	0.639702	0.0025	k(abs/tk ln)	
0.639801	0.0025	0.639754	0.0023	0.1842	
k(trk length)	0.631129	0.639901	0.0038	k(tk ln/col)	
0.640532	0.0028	0.640778	0.0028	0.3897	
rem life(col)	6.6568E+03	6.8037E+03	0.0031	k(col/abs/tk ln)	
0.640255	0.0024	0.639466	0.0024		
rem life(abs)	6.6682E+03	6.8088E+03	0.0030	life(col/abs/tl)	
6.8171E+03	0.0026	6.8481E+03	0.0022		
source points generated	4772				

estimator	cycle	83	ave of	33 cycles	combination
simple average	combined average		corr		
k(collision)	0.659700	0.641725	0.0030	k(col/abs)	
0.640948	0.0026	0.640240	0.0027	0.8273	
k(absorption)	0.655166	0.640170	0.0025	k(abs/tk ln)	
0.640362	0.0025	0.640266	0.0024	0.2468	
k(trk length)	0.661406	0.640553	0.0038	k(tk ln/col)	
0.641139	0.0029	0.641378	0.0029	0.4370	
rem life(col)	6.7507E+03	6.8021E+03	0.0030	k(col/abs/tk ln)	
0.640816	0.0025	0.639918	0.0025		
rem life(abs)	6.7696E+03	6.8076E+03	0.0029	life(col/abs/tl)	
6.8148E+03	0.0025	6.8402E+03	0.0023		
source points generated	5157				

estimator	cycle	84	ave of	34 cycles	combination
simple average	combined average		corr		
k(collision)	0.612867		0.640876	0.0032	k(col/abs)
0.640119	0.0029	0.639385	0.0029	0.8590	
k(absorption)	0.612683		0.639362	0.0028	k(abs/tk ln)
0.639887	0.0026	0.639691	0.0025	0.2463	
k(trk length)	0.635761		0.640412	0.0037	k(tk ln/col)
0.640644	0.0029	0.640702	0.0029	0.4217	
rem life(col)	6.8791E+03		6.8043E+03	0.0029	k(col/abs/tk ln)
0.640217	0.0026	0.639250	0.0026		
rem life(abs)	6.8930E+03		6.8102E+03	0.0029	life(col/abs/tl)
6.8174E+03	0.0025	6.8427E+03	0.0023		
source points generated		4684			

estimator	cycle	85	ave of	35 cycles	combination
simple average	combined average		corr		
k(collision)	0.642077		0.640911	0.0031	k(col/abs)
0.640115	0.0028	0.639348	0.0028	0.8582	
k(absorption)	0.637858		0.639319	0.0027	k(abs/tk ln)
0.639907	0.0025	0.639687	0.0024	0.2451	
k(trk length)	0.643345		0.640496	0.0036	k(tk ln/col)
0.640703	0.0028	0.640755	0.0028	0.4220	
rem life(col)	6.8920E+03		6.8068E+03	0.0028	k(col/abs/tk ln)
0.640242	0.0025	0.639231	0.0025		
rem life(abs)	6.8894E+03		6.8124E+03	0.0028	life(col/abs/tl)
6.8192E+03	0.0024	6.8435E+03	0.0022		
source points generated		5233			

estimator	cycle	86	ave of	36 cycles	combination
simple average	combined average		corr		
k(collision)	0.632833		0.640686	0.0030	k(col/abs)
0.639892	0.0027	0.639126	0.0028	0.8602	
k(absorption)	0.631330		0.639097	0.0026	k(abs/tk ln)
0.640046	0.0024	0.639690	0.0024	0.2086	
k(trk length)	0.658474		0.640995	0.0036	k(tk ln/col)
0.640841	0.0028	0.640800	0.0028	0.3841	
rem life(col)	6.7278E+03		6.8046E+03	0.0028	k(col/abs/tk ln)
0.640259	0.0025	0.639270	0.0024		
rem life(abs)	6.7270E+03		6.8100E+03	0.0027	life(col/abs/tl)
6.8175E+03	0.0024	6.8434E+03	0.0021		
source points generated		4919			

estimator	cycle	87	ave of	37 cycles	combination
simple average	combined average		corr		
k(collision)	0.649712		0.640930	0.0030	k(col/abs)
0.640042	0.0027	0.639165	0.0027	0.8571	
k(absorption)	0.641218		0.639154	0.0026	k(abs/tk ln)
0.640050	0.0024	0.639715	0.0023	0.2077	
k(trk length)	0.639173		0.640946	0.0035	k(tk ln/col)
0.640938	0.0027	0.640936	0.0027	0.3781	
rem life(col)	6.7171E+03		6.8023E+03	0.0027	k(col/abs/tk ln)
0.640343	0.0024	0.639243	0.0024		
rem life(abs)	6.7374E+03		6.8081E+03	0.0027	life(col/abs/tl)
6.8160E+03	0.0023	6.8435E+03	0.0021		

source points generated 5135

estimator	cycle	88	ave of	38 cycles	combination
simple average	combined average		corr		
k(collision)	0.657791		0.641374	0.0030	k(col/abs)
0.640495	0.0027	0.639645	0.0028	0.8653	
k(absorption)	0.656735		0.639617	0.0026	k(abs/tk ln)
0.640634	0.0025	0.640209	0.0024	0.2754	
k(trk length)	0.667715		0.641650	0.0036	k(tk ln/col)
0.641512	0.0028	0.641470	0.0027	0.4213	
rem life(col)	6.6894E+03		6.7993E+03	0.0027	k(col/abs/tk ln)
0.640880	0.0025	0.639804	0.0025		
rem life(abs)	6.6975E+03		6.8052E+03	0.0026	life(col/abs/tl)
6.8128E+03	0.0023	6.8387E+03	0.0021		
source points generated 5050					

estimator	cycle	89	ave of	39 cycles	combination
simple average	combined average		corr		
k(collision)	0.645700		0.641485	0.0029	k(col/abs)
0.640713	0.0026	0.640079	0.0027	0.8587	
k(absorption)	0.652232		0.639940	0.0026	k(abs/tk ln)
0.641215	0.0026	0.640576	0.0025	0.3217	
k(trk length)	0.674350		0.642489	0.0037	k(tk ln/col)
0.641987	0.0028	0.641786	0.0027	0.4146	
rem life(col)	6.7669E+03		6.7985E+03	0.0026	k(col/abs/tk ln)
0.641305	0.0025	0.640454	0.0026		
rem life(abs)	6.7223E+03		6.8030E+03	0.0026	life(col/abs/tl)
6.8106E+03	0.0023	6.8327E+03	0.0021		
source points generated 4974					

estimator	cycle	90	ave of	40 cycles	combination
simple average	combined average		corr		
k(collision)	0.629708		0.641190	0.0029	k(col/abs)
0.640460	0.0026	0.639831	0.0026	0.8613	
k(absorption)	0.631539		0.639730	0.0025	k(abs/tk ln)
0.641288	0.0025	0.640528	0.0024	0.2957	
k(trk length)	0.656726		0.642845	0.0037	k(tk ln/col)
0.642018	0.0027	0.641705	0.0027	0.3803	
rem life(col)	7.1796E+03		6.8080E+03	0.0029	k(col/abs/tk ln)
0.641255	0.0025	0.640405	0.0025		
rem life(abs)	7.1808E+03		6.8125E+03	0.0029	life(col/abs/tl)
6.8188E+03	0.0025	6.8416E+03	0.0021		
source points generated 4840					

estimator	cycle	91	ave of	41 cycles	combination
simple average	combined average		corr		
k(collision)	0.659364		0.641634	0.0029	k(col/abs)
0.640838	0.0026	0.640074	0.0026	0.8667	
k(absorption)	0.652534		0.640043	0.0025	k(abs/tk ln)
0.641614	0.0025	0.640842	0.0024	0.3154	
k(trk length)	0.656793		0.643185	0.0036	k(tk ln/col)
0.642409	0.0027	0.642129	0.0027	0.4004	
rem life(col)	6.8233E+03		6.8084E+03	0.0028	k(col/abs/tk ln)
0.641620	0.0025	0.640643	0.0025		

rem life(abs) 6.8615E+03 6.8137E+03 0.0028 life(col/abs/tl)
6.8189E+03 0.0025 6.8383E+03 0.0021
source points generated 5234

estimator	cycle	92	ave of	42 cycles	combination
simple average	combined average		corr		
k(collision)	0.655047		0.641953	0.0029	k(col/abs)
0.641114	0.0026	0.640267	0.0026	0.8698	
k(absorption)	0.649827		0.640276	0.0025	k(abs/tk ln)
0.641893	0.0025	0.641084	0.0024	0.3297	
k(trk length)	0.656835		0.643510	0.0035	k(tk ln/col)
0.642732	0.0027	0.642449	0.0027	0.4151	
rem life(col)	6.6737E+03		6.8052E+03	0.0028	k(col/abs/tk ln)
0.641913	0.0024	0.640840	0.0025		
rem life(abs)	6.6859E+03		6.8106E+03	0.0028	life(col/abs/tl)
6.8167E+03	0.0024	6.8386E+03	0.0021		
source points generated	4958				

estimator	cycle	93	ave of	43 cycles	combination
simple average	combined average		corr		
k(collision)	0.640783		0.641926	0.0028	k(col/abs)
0.640990	0.0025	0.640144	0.0026	0.8631	
k(absorption)	0.630733		0.640054	0.0025	k(abs/tk ln)
0.641781	0.0024	0.640943	0.0024	0.3264	
k(trk length)	0.643475		0.643509	0.0035	k(tk ln/col)
0.642717	0.0026	0.642431	0.0026	0.4150	
rem life(col)	6.8764E+03		6.8068E+03	0.0028	k(col/abs/tk ln)
0.641830	0.0024	0.640739	0.0025		
rem life(abs)	6.8622E+03		6.8118E+03	0.0027	life(col/abs/tl)
6.8179E+03	0.0024	6.8394E+03	0.0020		
source points generated	4878				

estimator	cycle	94	ave of	44 cycles	combination
simple average	combined average		corr		
k(collision)	0.633709		0.641739	0.0027	k(col/abs)
0.640857	0.0025	0.640039	0.0025	0.8626	
k(absorption)	0.636559		0.639974	0.0024	k(abs/tk ln)
0.641714	0.0024	0.640871	0.0023	0.3272	
k(trk length)	0.641086		0.643454	0.0034	k(tk ln/col)
0.642597	0.0026	0.642293	0.0026	0.4153	
rem life(col)	6.5932E+03		6.8020E+03	0.0028	k(col/abs/tk ln)
0.641723	0.0023	0.640670	0.0024		
rem life(abs)	6.5612E+03		6.8061E+03	0.0028	life(col/abs/tl)
6.8135E+03	0.0024	6.8385E+03	0.0020		
source points generated	4939				

estimator	cycle	95	ave of	45 cycles	combination
simple average	combined average		corr		
k(collision)	0.653304		0.641996	0.0027	k(col/abs)
0.641055	0.0024	0.640142	0.0025	0.8631	
k(absorption)	0.646290		0.640115	0.0024	k(abs/tk ln)
0.642033	0.0024	0.641037	0.0023	0.3384	
k(trk length)	0.665855		0.643952	0.0034	k(tk ln/col)
0.642974	0.0026	0.642593	0.0026	0.4335	

rem life(col)	6.7249E+03	6.8002E+03	0.0027	k(col/abs/tk ln)
0.642021 0.0023	0.640793	0.0024		
rem life(abs)	6.7190E+03	6.8042E+03	0.0027	life(col/abs/tl)
6.8120E+03 0.0024	6.8384E+03	0.0020		
source points generated	5140			

estimator	cycle	96	ave of	46 cycles	combination
simple average	combined average		corr		
k(collision)	0.642941		0.642017	0.0027	k(col/abs)
0.641050 0.0024	0.640117	0.0025	0.8626		
k(absorption)	0.638720		0.640084	0.0023	k(abs/tk ln)
0.642181 0.0023	0.641075	0.0023	0.3314		
k(trk length)	0.658938		0.644278	0.0034	k(tk ln/col)
0.643147 0.0025	0.642689	0.0025	0.4304		
rem life(col)	6.7843E+03		6.7999E+03	0.0027	k(col/abs/tk ln)
0.642126 0.0023	0.640829	0.0024			
rem life(abs)	6.8002E+03		6.8041E+03	0.0027	life(col/abs/tl)
6.8119E+03 0.0023	6.8383E+03	0.0019			
source points generated	4918				

estimator	cycle	97	ave of	47 cycles	combination
simple average	combined average		corr		
k(collision)	0.637806		0.641927	0.0026	k(col/abs)
0.640937 0.0023	0.639998	0.0024	0.8626		
k(absorption)	0.633595		0.639946	0.0023	k(abs/tk ln)
0.642214 0.0023	0.641036	0.0022	0.3193		
k(trk length)	0.653820		0.644481	0.0033	k(tk ln/col)
0.643204 0.0025	0.642687	0.0025	0.4227		
rem life(col)	6.9198E+03		6.8025E+03	0.0026	k(col/abs/tk ln)
0.642118 0.0022	0.640791	0.0023			
rem life(abs)	6.9070E+03		6.8063E+03	0.0026	life(col/abs/tl)
6.8144E+03 0.0023	6.8414E+03	0.0020			
source points generated	4961				

estimator	cycle	98	ave of	48 cycles	combination
simple average	combined average		corr		
k(collision)	0.634109		0.641764	0.0026	k(col/abs)
0.640862 0.0023	0.640011	0.0023	0.8573		
k(absorption)	0.640607		0.639960	0.0022	k(abs/tk ln)
0.642119 0.0022	0.640990	0.0022	0.3168		
k(trk length)	0.634741		0.644278	0.0032	k(tk ln/col)
0.643021 0.0025	0.642508	0.0024	0.4282		
rem life(col)	6.9291E+03		6.8051E+03	0.0026	k(col/abs/tk ln)
0.642001 0.0022	0.640771	0.0022			
rem life(abs)	6.9189E+03		6.8087E+03	0.0026	life(col/abs/tl)
6.8163E+03 0.0023	6.8418E+03	0.0019			
source points generated	4972				

estimator	cycle	99	ave of	49 cycles	combination
simple average	combined average		corr		
k(collision)	0.633111		0.641588	0.0025	k(col/abs)
0.640699 0.0023	0.639850	0.0023	0.8590		
k(absorption)	0.632621		0.639810	0.0022	k(abs/tk ln)
0.642024 0.0022	0.640880	0.0022	0.3170		

k(trk length)	0.642297	0.644237	0.0032	k(tk ln/col)
0.642912	0.0024	0.642384	0.0024	0.4277
rem life(col)	7.0036E+03	6.8091E+03	0.0026	k(col/abs/tk ln)
0.641878	0.0022	0.640658	0.0022	
rem life(abs)	6.9986E+03	6.8125E+03	0.0026	life(col/abs/tl)
6.8203E+03	0.0023	6.8460E+03	0.0020	
source points generated	4993			

estimator	cycle	100	ave of	50 cycles	combination
simple average	combined average		corr		
k(collision)	0.628009		0.641316	0.0025	k(col/abs)
0.640347	0.0023	0.639617	0.0024	0.8583	
k(absorption)	0.618217		0.639378	0.0022	k(abs/tk ln)
0.641667	0.0022	0.640550	0.0022	0.3412	
k(trk length)	0.630143		0.643956	0.0031	k(tk ln/col)
0.642636	0.0024	0.642107	0.0024	0.4410	
rem life(col)	6.7525E+03		6.8080E+03	0.0026	k(col/abs/tk ln)
0.641550	0.0022	0.640438	0.0023		
rem life(abs)	6.7521E+03		6.8113E+03	0.0026	life(col/abs/tl)
6.8195E+03	0.0022	6.8463E+03	0.0020		
source points generated	5017				

estimator	cycle	101	ave of	51 cycles	combination
simple average	combined average		corr		
k(collision)	0.659616		0.641675	0.0025	k(col/abs)
0.640733	0.0023	0.640085	0.0024	0.8656	
k(absorption)	0.660433		0.639791	0.0023	k(abs/tk ln)
0.641854	0.0022	0.640978	0.0022	0.3219	
k(trk length)	0.641986		0.643917	0.0031	k(tk ln/col)
0.642796	0.0024	0.642403	0.0024	0.4256	
rem life(col)	6.7631E+03		6.8071E+03	0.0025	k(col/abs/tk ln)
0.641794	0.0022	0.640864	0.0023		
rem life(abs)	6.7751E+03		6.8106E+03	0.0025	life(col/abs/tl)
6.8182E+03	0.0022	6.8418E+03	0.0020		
source points generated	5307				

estimator	cycle	102	ave of	52 cycles	combination
simple average	combined average		corr		
k(collision)	0.645247		0.641743	0.0025	k(col/abs)
0.640810	0.0023	0.640172	0.0024	0.8658	
k(absorption)	0.644205		0.639876	0.0023	k(abs/tk ln)
0.642161	0.0022	0.641089	0.0022	0.3256	
k(trk length)	0.671460		0.644447	0.0031	k(tk ln/col)
0.643095	0.0024	0.642551	0.0024	0.4217	
rem life(col)	6.8849E+03		6.8086E+03	0.0025	k(col/abs/tk ln)
0.642022	0.0022	0.641013	0.0023		
rem life(abs)	6.8753E+03		6.8119E+03	0.0025	life(col/abs/tl)
6.8190E+03	0.0022	6.8410E+03	0.0019		
source points generated	4882				

estimator	cycle	103	ave of	53 cycles	combination
simple average	combined average		corr		
k(collision)	0.635817		0.641632	0.0024	k(col/abs)
0.640704	0.0022	0.640066	0.0023	0.8665	

k(absorption)	0.634579	0.639776	0.0022	k(abs/tk ln)
0.642144	0.0022	0.641044	0.0022	0.3222
k(trk length)	0.647943	0.644513	0.0031	k(tk ln/col)
0.643072	0.0023	0.642500	0.0023	0.4180
rem life(col)	6.7734E+03	6.8080E+03	0.0024	k(col/abs/tk ln)
0.641973	0.0021	0.640965	0.0022	
rem life(abs)	6.7682E+03	6.8110E+03	0.0024	life(col/abs/tl)
6.8181E+03	0.0021	6.8395E+03	0.0019	
source points generated	4942			

estimator	cycle	104	ave of	54 cycles	combination
simple average	combined average		corr		
k(collision)	0.645760	0.641708	0.0024	k(col/abs)	
0.640806	0.0022	0.640206	0.0023	0.8663	
k(absorption)	0.646719	0.639905	0.0022	k(abs/tk ln)	
0.642187	0.0021	0.641143	0.0021	0.3187	
k(trk length)	0.642144	0.644469	0.0030	k(tk ln/col)	
0.643088	0.0023	0.642544	0.0023	0.4162	
rem life(col)	6.9820E+03	6.8112E+03	0.0024	k(col/abs/tk ln)	
0.642027	0.0021	0.641073	0.0022		
rem life(abs)	6.9659E+03	6.8139E+03	0.0024	life(col/abs/tl)	
6.8207E+03	0.0021	6.8419E+03	0.0019		
source points generated	5077				

estimator	cycle	105	ave of	55 cycles	combination
simple average	combined average		corr		
k(collision)	0.654204	0.641935	0.0024	k(col/abs)	
0.641070	0.0022	0.640558	0.0023	0.8687	
k(absorption)	0.656427	0.640205	0.0022	k(abs/tk ln)	
0.642297	0.0021	0.641418	0.0021	0.3022	
k(trk length)	0.640091	0.644389	0.0030	k(tk ln/col)	
0.643162	0.0022	0.642706	0.0022	0.4050	
rem life(col)	6.8533E+03	6.8119E+03	0.0024	k(col/abs/tk ln)	
0.642177	0.0021	0.641363	0.0022		
rem life(abs)	6.8723E+03	6.8150E+03	0.0024	life(col/abs/tl)	
6.8218E+03	0.0021	6.8431E+03	0.0019		
source points generated	5083				

estimator	cycle	106	ave of	56 cycles	combination
simple average	combined average		corr		
k(collision)	0.650209	0.642083	0.0023	k(col/abs)	
0.641258	0.0022	0.640818	0.0023	0.8690	
k(absorption)	0.652924	0.640432	0.0022	k(abs/tk ln)	
0.642307	0.0021	0.641560	0.0020	0.2785	
k(trk length)	0.632755	0.644181	0.0029	k(tk ln/col)	
0.643132	0.0022	0.642750	0.0022	0.3897	
rem life(col)	6.7099E+03	6.8101E+03	0.0024	k(col/abs/tk ln)	
0.642232	0.0020	0.641513	0.0021		
rem life(abs)	6.7144E+03	6.8132E+03	0.0024	life(col/abs/tl)	
6.8202E+03	0.0021	6.8420E+03	0.0018		
source points generated	4948				

estimator	cycle	107	ave of	57 cycles	combination
simple average	combined average		corr		

k(collision)	0.630425	0.641879	0.0023	k(col/abs)
0.641071	0.0022	0.640622	0.0023	0.8711
k(absorption)	0.630804	0.640263	0.0022	k(abs/tk ln)
0.642256	0.0020	0.641485	0.0020	0.2718
k(trk length)	0.648027	0.644249	0.0029	k(tk ln/col)
0.643064	0.0022	0.642653	0.0022	0.3808
rem life(col)	7.0050E+03	6.8135E+03	0.0024	k(col/abs/tk ln)
0.642130	0.0020	0.641426	0.0021	
rem life(abs)	7.0111E+03	6.8166E+03	0.0024	life(col/abs/tl)
6.8233E+03	0.0021	6.8448E+03	0.0018	
source points generated	4834			

estimator	cycle	108	ave of	58 cycles	combination
simple average	combined	average	corr		
k(collision)	0.617192	0.641453	0.0024	k(col/abs)	
0.640667	0.0022	0.640179	0.0023	0.8808	
k(absorption)	0.618071	0.639881	0.0022	k(abs/tk ln)	
0.641936	0.0021	0.641187	0.0021	0.2970	
k(trk length)	0.629281	0.643991	0.0029	k(tk ln/col)	
0.642722	0.0022	0.642328	0.0022	0.4011	
rem life(col)	6.8477E+03	6.8141E+03	0.0023	k(col/abs/tk ln)	
0.641775	0.0020	0.641085	0.0021		
rem life(abs)	6.8445E+03	6.8171E+03	0.0023	life(col/abs/tl)	
6.8238E+03	0.0020	6.8453E+03	0.0018		
source points generated	4902				

estimator	cycle	109	ave of	59 cycles	combination
simple average	combined	average	corr		
k(collision)	0.624879	0.641172	0.0024	k(col/abs)	
0.640462	0.0022	0.639958	0.0023	0.8790	
k(absorption)	0.632302	0.639752	0.0022	k(abs/tk ln)	
0.641662	0.0021	0.640901	0.0021	0.3089	
k(trk length)	0.619270	0.643572	0.0029	k(tk ln/col)	
0.642372	0.0022	0.641967	0.0022	0.4257	
rem life(col)	6.9190E+03	6.8159E+03	0.0023	k(col/abs/tk ln)	
0.641499	0.0020	0.640765	0.0021		
rem life(abs)	6.9232E+03	6.8189E+03	0.0023	life(col/abs/tl)	
6.8257E+03	0.0020	6.8473E+03	0.0018		
source points generated	5078				

estimator	cycle	110	ave of	60 cycles	combination
simple average	combined	average	corr		
k(collision)	0.658613	0.641463	0.0024	k(col/abs)	
0.640770	0.0022	0.640307	0.0023	0.8836	
k(absorption)	0.659236	0.640077	0.0022	k(abs/tk ln)	
0.641942	0.0021	0.641226	0.0021	0.3275	
k(trk length)	0.657653	0.643806	0.0029	k(tk ln/col)	
0.642635	0.0022	0.642250	0.0022	0.4387	
rem life(col)	6.7631E+03	6.8150E+03	0.0023	k(col/abs/tk ln)	
0.641782	0.0021	0.641107	0.0021		
rem life(abs)	6.7710E+03	6.8181E+03	0.0023	life(col/abs/tl)	
6.8251E+03	0.0020	6.8473E+03	0.0018		
source points generated	5240				

estimator	cycle	111	ave of	61 cycles	combination
simple average	combined average		corr		
k(collision)	0.640526		0.641447	0.0023	k(col/abs)
0.640719	0.0022	0.640247	0.0023	0.8825	
k(absorption)	0.634802		0.639991	0.0022	k(abs/tk ln)
0.641861	0.0020	0.641144	0.0020	0.3291	
k(trk length)	0.639205		0.643731	0.0028	k(tk ln/col)
0.642589	0.0022	0.642213	0.0022	0.4388	
rem life(col)	6.8862E+03		6.8162E+03	0.0023	k(col/abs/tk ln)
0.641723	0.0020	0.641031	0.0021		
rem life(abs)	6.9092E+03		6.8196E+03	0.0022	life(col/abs/tl)
6.8259E+03	0.0020	6.8463E+03	0.0017		
source points generated		4869			

estimator	cycle	112	ave of	62 cycles	combination
simple average	combined average		corr		
k(collision)	0.648531		0.641562	0.0023	k(col/abs)
0.640824	0.0022	0.640342	0.0022	0.8831	
k(absorption)	0.645976		0.640087	0.0021	k(abs/tk ln)
0.641915	0.0020	0.641221	0.0020	0.3288	
k(trk length)	0.644492		0.643743	0.0028	k(tk ln/col)
0.642652	0.0022	0.642299	0.0022	0.4380	
rem life(col)	6.8550E+03		6.8168E+03	0.0022	k(col/abs/tk ln)
0.641797	0.0020	0.641099	0.0021		
rem life(abs)	6.8690E+03		6.8204E+03	0.0022	life(col/abs/tl)
6.8266E+03	0.0019	6.8468E+03	0.0017		
source points generated		5052			

estimator	cycle	113	ave of	63 cycles	combination
simple average	combined average		corr		
k(collision)	0.636804		0.641486	0.0023	k(col/abs)
0.640703	0.0021	0.640236	0.0022	0.8816	
k(absorption)	0.629551		0.639920	0.0021	k(abs/tk ln)
0.642081	0.0020	0.641230	0.0020	0.2801	
k(trk length)	0.675197		0.644243	0.0028	k(tk ln/col)
0.642864	0.0021	0.642361	0.0021	0.4066	
rem life(col)	6.9794E+03		6.8194E+03	0.0022	k(col/abs/tk ln)
0.641883	0.0020	0.641108	0.0020		
rem life(abs)	7.0181E+03		6.8236E+03	0.0022	life(col/abs/tl)
6.8294E+03	0.0020	6.8488E+03	0.0017		
source points generated		4938			

estimator	cycle	114	ave of	64 cycles	combination
simple average	combined average		corr		
k(collision)	0.643879		0.641523	0.0022	k(col/abs)
0.640774	0.0021	0.640347	0.0022	0.8806	
k(absorption)	0.646656		0.640025	0.0021	k(abs/tk ln)
0.642138	0.0020	0.641315	0.0020	0.2796	
k(trk length)	0.644808		0.644251	0.0028	k(tk ln/col)
0.642887	0.0021	0.642390	0.0021	0.4065	
rem life(col)	6.6733E+03		6.8171E+03	0.0022	k(col/abs/tk ln)
0.641933	0.0019	0.641211	0.0020		
rem life(abs)	6.6674E+03		6.8211E+03	0.0022	life(col/abs/tl)
6.8273E+03	0.0019	6.8477E+03	0.0017		

source points generated 5083

estimator	cycle	115	ave of	65 cycles	combination
simple average	combined average		corr		
k(collision)	0.633134		0.641394	0.0022	k(col/abs)
0.640601 0.0021	0.640209	0.0022	0.8801		
k(absorption)	0.625942		0.639808	0.0021	k(abs/tk ln)
0.642026 0.0019	0.641202	0.0020	0.2766		
k(trk length)	0.643789		0.644244	0.0027	k(tk ln/col)
0.642819 0.0021	0.642309	0.0021	0.4052		
rem life(col)	6.8740E+03		6.8180E+03	0.0022	k(col/abs/tk ln)
0.641816 0.0019	0.641116	0.0020			
rem life(abs)	6.9055E+03		6.8224E+03	0.0022	life(col/abs/tl)
6.8282E+03 0.0019	6.8478E+03	0.0017			

source points generated 4867

estimator	cycle	116	ave of	66 cycles	combination
simple average	combined average		corr		
k(collision)	0.650308		0.641529	0.0022	k(col/abs)
0.640665 0.0021	0.640222	0.0022	0.8755		
k(absorption)	0.639328		0.639801	0.0021	k(abs/tk ln)
0.642100 0.0019	0.641236	0.0019	0.2750		
k(trk length)	0.654432		0.644399	0.0027	k(tk ln/col)
0.642964 0.0021	0.642448	0.0021	0.4103		
rem life(col)	6.6587E+03		6.8156E+03	0.0022	k(col/abs/tk ln)
0.641910 0.0019	0.641131	0.0020			
rem life(abs)	6.7014E+03		6.8206E+03	0.0022	life(col/abs/tl)
6.8265E+03 0.0019	6.8475E+03	0.0017			

source points generated 5156

estimator	cycle	117	ave of	67 cycles	combination
simple average	combined average		corr		
k(collision)	0.638033		0.641477	0.0022	k(col/abs)
0.640727 0.0020	0.640423	0.0021	0.8619		
k(absorption)	0.651544		0.639976	0.0020	k(abs/tk ln)
0.642148 0.0019	0.641362	0.0019	0.2661		
k(trk length)	0.639090		0.644319	0.0027	k(tk ln/col)
0.642898 0.0020	0.642386	0.0020	0.4113		
rem life(col)	6.9160E+03		6.8171E+03	0.0022	k(col/abs/tk ln)
0.641924 0.0019	0.641324	0.0019			
rem life(abs)	6.8752E+03		6.8214E+03	0.0021	life(col/abs/tl)
6.8272E+03 0.0019	6.8472E+03	0.0017			

source points generated 4860

estimator	cycle	118	ave of	68 cycles	combination
simple average	combined average		corr		
k(collision)	0.634346		0.641372	0.0021	k(col/abs)
0.640627 0.0020	0.640322	0.0021	0.8627		
k(absorption)	0.633550		0.639882	0.0020	k(abs/tk ln)
0.641826 0.0019	0.641005	0.0019	0.2750		
k(trk length)	0.607003		0.643771	0.0028	k(tk ln/col)
0.642572 0.0021	0.642052	0.0020	0.4138		
rem life(col)	6.6635E+03		6.8148E+03	0.0021	k(col/abs/tk ln)
0.641675 0.0019	0.640993	0.0019			

rem life(abs) 6.6140E+03 6.8183E+03 0.0022 life(col/abs/tl)
6.8247E+03 0.0019 6.8453E+03 0.0016
source points generated 4953

estimator	cycle	119	ave of	69 cycles	combination
simple average	combined average		corr		
k(collision)	0.636170		0.641297	0.0021	k(col/abs)
0.640521	0.0020	0.640227	0.0021	0.8624	
k(absorption)	0.630467		0.639745	0.0020	k(abs/tk ln)
0.641656	0.0019	0.640837	0.0019	0.2839	
k(trk length)	0.629666		0.643566	0.0028	k(tk ln/col)
0.642432	0.0021	0.641929	0.0020	0.4168	
rem life(col)	6.8692E+03		6.8156E+03	0.0021	k(col/abs/tk ln)
0.641536	0.0019	0.640852	0.0019		
rem life(abs)	6.8611E+03		6.8190E+03	0.0021	life(col/abs/tl)
6.8252E+03	0.0019	6.8457E+03	0.0016		
source points generated	5011				

estimator	cycle	120	ave of	70 cycles	combination
simple average	combined average		corr		
k(collision)	0.641406		0.641299	0.0021	k(col/abs)
0.640507	0.0020	0.640209	0.0020	0.8621	
k(absorption)	0.637639		0.639715	0.0020	k(abs/tk ln)
0.641731	0.0019	0.640860	0.0019	0.2799	
k(trk length)	0.656233		0.643747	0.0027	k(tk ln/col)
0.642523	0.0020	0.641973	0.0020	0.4147	
rem life(col)	6.8198E+03		6.8157E+03	0.0021	k(col/abs/tk ln)
0.641587	0.0018	0.640874	0.0019		
rem life(abs)	6.8400E+03		6.8193E+03	0.0021	life(col/abs/tl)
6.8255E+03	0.0018	6.8459E+03	0.0016		
source points generated	5047				

estimator	cycle	121	ave of	71 cycles	combination
simple average	combined average		corr		
k(collision)	0.649361		0.641412	0.0021	k(col/abs)
0.640655	0.0019	0.640407	0.0020	0.8623	
k(absorption)	0.652672		0.639898	0.0020	k(abs/tk ln)
0.641825	0.0019	0.641019	0.0018	0.2773	
k(trk length)	0.644038		0.643751	0.0027	k(tk ln/col)
0.642582	0.0020	0.642064	0.0020	0.4134	
rem life(col)	7.0217E+03		6.8186E+03	0.0021	k(col/abs/tk ln)
0.641687	0.0018	0.641046	0.0019		
rem life(abs)	7.0084E+03		6.8219E+03	0.0021	life(col/abs/tl)
6.8279E+03	0.0018	6.8483E+03	0.0016		
source points generated	5027				

estimator	cycle	122	ave of	72 cycles	combination
simple average	combined average		corr		
k(collision)	0.647137		0.641492	0.0020	k(col/abs)
0.640768	0.0019	0.640558	0.0020	0.8619	
k(absorption)	0.650495		0.640045	0.0020	k(abs/tk ln)
0.641836	0.0018	0.641107	0.0018	0.2661	
k(trk length)	0.634838		0.643627	0.0027	k(tk ln/col)
0.642560	0.0020	0.642090	0.0019	0.4071	

rem life(col)	6.7089E+03	6.8171E+03	0.0021	k(col/abs/tk ln)
0.641721 0.0018	0.641138	0.0019		
rem life(abs)	6.7015E+03	6.8203E+03	0.0021	life(col/abs/tl)
6.8268E+03 0.0018	6.8485E+03	0.0016		
source points generated	4966			

estimator	cycle	123	ave of	73 cycles	combination
simple average	combined average		corr		
k(collision)	0.642394		0.641504	0.0020	k(col/abs)
0.640779 0.0019	0.640569	0.0020	0.8619		
k(absorption)	0.640740		0.640055	0.0019	k(abs/tk ln)
0.641899 0.0018	0.641143	0.0018	0.2660		
k(trk length)	0.652155		0.643744	0.0026	k(tk ln/col)
0.642624 0.0019	0.642128	0.0019	0.4067		
rem life(col)	6.9522E+03		6.8189E+03	0.0021	k(col/abs/tk ln)
0.641768 0.0018	0.641175	0.0018			
rem life(abs)	6.9505E+03		6.8220E+03	0.0021	life(col/abs/tl)
6.8286E+03 0.0018	6.8503E+03	0.0016			
source points generated	4964				

estimator	cycle	124	ave of	74 cycles	combination
simple average	combined average		corr		
k(collision)	0.641494		0.641504	0.0020	k(col/abs)
0.640768 0.0019	0.640556	0.0019	0.8618		
k(absorption)	0.638460		0.640033	0.0019	k(abs/tk ln)
0.641867 0.0018	0.641115	0.0018	0.2663		
k(trk length)	0.640578		0.643701	0.0026	k(tk ln/col)
0.642603 0.0019	0.642116	0.0019	0.4066		
rem life(col)	6.9640E+03		6.8209E+03	0.0021	k(col/abs/tk ln)
0.641746 0.0017	0.641149	0.0018			
rem life(abs)	6.9555E+03		6.8238E+03	0.0021	life(col/abs/tl)
6.8302E+03 0.0018	6.8515E+03	0.0016			
source points generated	4981				

estimator	cycle	125	ave of	75 cycles	combination
simple average	combined average		corr		
k(collision)	0.630269		0.641354	0.0020	k(col/abs)
0.640615 0.0019	0.640405	0.0019	0.8639		
k(absorption)	0.628326		0.639877	0.0019	k(abs/tk ln)
0.641722 0.0018	0.640969	0.0018	0.2736		
k(trk length)	0.633678		0.643568	0.0026	k(tk ln/col)
0.642461 0.0019	0.641973	0.0019	0.4120		
rem life(col)	6.7906E+03		6.8205E+03	0.0020	k(col/abs/tk ln)
0.641600 0.0017	0.641005	0.0018			
rem life(abs)	6.7967E+03		6.8235E+03	0.0020	life(col/abs/tl)
6.8299E+03 0.0018	6.8514E+03	0.0015			
source points generated	4900				

estimator	cycle	126	ave of	76 cycles	combination
simple average	combined average		corr		
k(collision)	0.633220		0.641247	0.0019	k(col/abs)
0.640534 0.0018	0.640318	0.0019	0.8638		
k(absorption)	0.635613		0.639821	0.0019	k(abs/tk ln)
0.641675 0.0018	0.640919	0.0017	0.2744		

k(trk length)	0.640676	0.643530	0.0025	k(tk ln/col)
0.642388	0.0019	0.641890	0.0018	0.4124
rem life(col)	7.0588E+03	6.8236E+03	0.0021	k(col/abs/tk ln)
0.641533	0.0017	0.640946	0.0018	
rem life(abs)	7.0543E+03	6.8265E+03	0.0021	life(col/abs/tl)
6.8324E+03	0.0018	6.8525E+03	0.0015	
source points generated	5002			

estimator	cycle	127	ave of	77 cycles	combination
simple average	combined average		corr		
k(collision)	0.626676	0.641058	0.0019	k(col/abs)	
0.640367	0.0018	0.640133	0.0019	0.8659	
k(absorption)	0.628631	0.639675	0.0019	k(abs/tk ln)	
0.641636	0.0017	0.640860	0.0017	0.2669	
k(trk length)	0.648723	0.643597	0.0025	k(tk ln/col)	
0.642328	0.0019	0.641804	0.0018	0.4009	
rem life(col)	6.8489E+03	6.8239E+03	0.0020	k(col/abs/tk ln)	
0.641444	0.0017	0.640870	0.0018		
rem life(abs)	6.8695E+03	6.8271E+03	0.0020	life(col/abs/tl)	
6.8330E+03	0.0018	6.8533E+03	0.0015		
source points generated	4972				

estimator	cycle	128	ave of	78 cycles	combination
simple average	combined average		corr		
k(collision)	0.648226	0.641150	0.0019	k(col/abs)	
0.640447	0.0018	0.640203	0.0019	0.8664	
k(absorption)	0.645034	0.639744	0.0018	k(abs/tk ln)	
0.641684	0.0017	0.640919	0.0017	0.2674	
k(trk length)	0.645640	0.643623	0.0025	k(tk ln/col)	
0.642387	0.0018	0.641881	0.0018	0.4009	
rem life(col)	6.8590E+03	6.8244E+03	0.0020	k(col/abs/tk ln)	
0.641506	0.0017	0.640925	0.0017		
rem life(abs)	6.8903E+03	6.8279E+03	0.0020	life(col/abs/tl)	
6.8332E+03	0.0018	6.8517E+03	0.0015		
source points generated	5131				

estimator	cycle	129	ave of	79 cycles	combination
simple average	combined average		corr		
k(collision)	0.624180	0.640935	0.0019	k(col/abs)	
0.640273	0.0018	0.639998	0.0019	0.8675	
k(absorption)	0.629193	0.639611	0.0018	k(abs/tk ln)	
0.641448	0.0017	0.640673	0.0017	0.2838	
k(trk length)	0.616947	0.643286	0.0025	k(tk ln/col)	
0.642110	0.0019	0.641600	0.0018	0.4226	
rem life(col)	7.1511E+03	6.8285E+03	0.0021	k(col/abs/tk ln)	
0.641277	0.0017	0.640654	0.0017		
rem life(abs)	7.1382E+03	6.8318E+03	0.0021	life(col/abs/tl)	
6.8364E+03	0.0018	6.8530E+03	0.0015		
source points generated	4853				

estimator	cycle	130	ave of	80 cycles	combination
simple average	combined average		corr		
k(collision)	0.644647	0.640981	0.0019	k(col/abs)	
0.640289	0.0018	0.640001	0.0018	0.8664	

k(absorption)	0.638553	0.639597	0.0018	k(abs/tk ln)
0.641508	0.0017	0.640696	0.0017	0.2818
k(trk length)	0.653907	0.643419	0.0025	k(tk ln/col)
0.642200	0.0019	0.641664	0.0018	0.4240
rem life(col)	6.7427E+03	6.8274E+03	0.0021	k(col/abs/tk ln)
0.641332	0.0017	0.640673	0.0017	
rem life(abs)	6.7394E+03	6.8307E+03	0.0020	life(col/abs/tl)
6.8353E+03	0.0018	6.8522E+03	0.0014	
source points generated	5181			

estimator	cycle	131	ave of	81 cycles	combination
simple average	combined average		corr		
k(collision)	0.639600	0.640964	0.0019	k(col/abs)	
0.640334	0.0018	0.640099	0.0018	0.8613	
k(absorption)	0.648149	0.639703	0.0018	k(abs/tk ln)	
0.641435	0.0017	0.640700	0.0017	0.2624	
k(trk length)	0.622990	0.643166	0.0025	k(tk ln/col)	
0.642065	0.0018	0.641563	0.0018	0.4208	
rem life(col)	6.9123E+03	6.8285E+03	0.0020	k(col/abs/tk ln)	
0.641278	0.0017	0.640681	0.0017		
rem life(abs)	6.8774E+03	6.8312E+03	0.0020	life(col/abs/tl)	
6.8357E+03	0.0018	6.8514E+03	0.0014		
source points generated	4955				

estimator	cycle	132	ave of	82 cycles	combination
simple average	combined average		corr		
k(collision)	0.639558	0.640947	0.0019	k(col/abs)	
0.640326	0.0017	0.640095	0.0018	0.8611	
k(absorption)	0.639872	0.639705	0.0018	k(abs/tk ln)	
0.641313	0.0017	0.640611	0.0016	0.2590	
k(trk length)	0.623009	0.642921	0.0025	k(tk ln/col)	
0.641934	0.0018	0.641469	0.0018	0.4180	
rem life(col)	6.9592E+03	6.8301E+03	0.0020	k(col/abs/tk ln)	
0.641191	0.0016	0.640595	0.0017		
rem life(abs)	6.9310E+03	6.8325E+03	0.0020	life(col/abs/tl)	
6.8370E+03	0.0017	6.8528E+03	0.0014		
source points generated	4998				

estimator	cycle	133	ave of	83 cycles	combination
simple average	combined average		corr		
k(collision)	0.627700	0.640787	0.0019	k(col/abs)	
0.640242	0.0017	0.640016	0.0018	0.8543	
k(absorption)	0.639035	0.639697	0.0017	k(abs/tk ln)	
0.641339	0.0017	0.640622	0.0016	0.2585	
k(trk length)	0.647963	0.642981	0.0024	k(tk ln/col)	
0.641884	0.0018	0.641388	0.0018	0.4086	
rem life(col)	6.8716E+03	6.8306E+03	0.0020	k(col/abs/tk ln)	
0.641155	0.0016	0.640613	0.0016		
rem life(abs)	6.8343E+03	6.8325E+03	0.0020	life(col/abs/tl)	
6.8371E+03	0.0017	6.8527E+03	0.0014		
source points generated	4900				

estimator	cycle	134	ave of	84 cycles	combination
simple average	combined average		corr		

k(collision)	0.657838	0.640990	0.0019	k(col/abs)
0.640460	0.0017	0.640257	0.0018	0.8588
k(absorption)	0.659164	0.639929	0.0018	k(abs/tk ln)
0.641531	0.0017	0.640851	0.0016	0.2718
k(trk length)	0.655773	0.643134	0.0024	k(tk ln/col)
0.642062	0.0018	0.641586	0.0018	0.4174
rem life(col)	6.6945E+03	6.8290E+03	0.0020	k(col/abs/tk ln)
0.641351	0.0016	0.640848	0.0017	
rem life(abs)	6.7050E+03	6.8310E+03	0.0020	life(col/abs/tl)
6.8356E+03	0.0017	6.8516E+03	0.0014	
source points generated	5236			

estimator	cycle	135	ave of	85 cycles	combination
simple average	combined average		corr		
k(collision)	0.615456	0.640690	0.0019	k(col/abs)	
0.640171	0.0018	0.639954	0.0018	0.8673	
k(absorption)	0.616367	0.639652	0.0018	k(abs/tk ln)	
0.641331	0.0017	0.640662	0.0017	0.2822	
k(trk length)	0.632679	0.643011	0.0024	k(tk ln/col)	
0.641850	0.0018	0.641381	0.0018	0.4228	
rem life(col)	7.0137E+03	6.8311E+03	0.0020	k(col/abs/tk ln)	
0.641117	0.0017	0.640642	0.0017		
rem life(abs)	7.0345E+03	6.8334E+03	0.0020	life(col/abs/tl)	
6.8376E+03	0.0017	6.8528E+03	0.0014		
source points generated	4637				

estimator	cycle	136	ave of	86 cycles	combination
simple average	combined average		corr		
k(collision)	0.651146	0.640812	0.0019	k(col/abs)	
0.640262	0.0018	0.640018	0.0018	0.8670	
k(absorption)	0.644820	0.639712	0.0018	k(abs/tk ln)	
0.641348	0.0017	0.640700	0.0016	0.2808	
k(trk length)	0.640761	0.642984	0.0024	k(tk ln/col)	
0.641898	0.0018	0.641469	0.0018	0.4188	
rem life(col)	6.7567E+03	6.8303E+03	0.0020	k(col/abs/tk ln)	
0.641169	0.0016	0.640672	0.0017		
rem life(abs)	6.7610E+03	6.8325E+03	0.0020	life(col/abs/tl)	
6.8369E+03	0.0017	6.8523E+03	0.0014		
source points generated	5255				

estimator	cycle	137	ave of	87 cycles	combination
simple average	combined average		corr		
k(collision)	0.646411	0.640876	0.0019	k(col/abs)	
0.640323	0.0017	0.640077	0.0018	0.8673	
k(absorption)	0.644824	0.639770	0.0018	k(abs/tk ln)	
0.641372	0.0017	0.640741	0.0016	0.2800	
k(trk length)	0.642043	0.642974	0.0024	k(tk ln/col)	
0.641925	0.0018	0.641514	0.0018	0.4178	
rem life(col)	6.8370E+03	6.8303E+03	0.0019	k(col/abs/tk ln)	
0.641207	0.0016	0.640711	0.0016		
rem life(abs)	6.8439E+03	6.8326E+03	0.0019	life(col/abs/tl)	
6.8374E+03	0.0017	6.8534E+03	0.0014		
source points generated	5012				

estimator	cycle	138	ave of	88 cycles	combination
simple average	combined average		corr		
k(collision)	0.657119		0.641061	0.0019	k(col/abs)
0.640514	0.0018	0.640277	0.0018	0.8708	
k(absorption)	0.657056		0.639967	0.0018	k(abs/tk ln)
0.641534	0.0017	0.640932	0.0016	0.2896	
k(trk length)	0.654211		0.643101	0.0023	k(tk ln/col)
0.642081	0.0018	0.641690	0.0018	0.4245	
rem life(col)	6.8315E+03		6.8304E+03	0.0019	k(col/abs/tk ln)
0.641376	0.0016	0.640902	0.0017		
rem life(abs)	6.8190E+03		6.8325E+03	0.0019	life(col/abs/tl)
6.8372E+03	0.0017	6.8529E+03	0.0014		
source points generated 5034					

estimator	cycle	139	ave of	89 cycles	combination
simple average	combined average		corr		
k(collision)	0.632095		0.640960	0.0018	k(col/abs)
0.640417	0.0017	0.640180	0.0018	0.8717	
k(absorption)	0.631692		0.639874	0.0017	k(abs/tk ln)
0.641503	0.0016	0.640886	0.0016	0.2868	
k(trk length)	0.645864		0.643132	0.0023	k(tk ln/col)
0.642046	0.0018	0.641638	0.0017	0.4211	
rem life(col)	7.1054E+03		6.8334E+03	0.0020	k(col/abs/tk ln)
0.641322	0.0016	0.640854	0.0016		
rem life(abs)	7.1135E+03		6.8356E+03	0.0019	life(col/abs/tl)
6.8399E+03	0.0017	6.8546E+03	0.0013		
source points generated 4811					

estimator	cycle	140	ave of	90 cycles	combination
simple average	combined average		corr		
k(collision)	0.640573		0.640956	0.0018	k(col/abs)
0.640427	0.0017	0.640197	0.0018	0.8714	
k(absorption)	0.642003		0.639897	0.0017	k(abs/tk ln)
0.641417	0.0016	0.640829	0.0016	0.2814	
k(trk length)	0.625523		0.642937	0.0023	k(tk ln/col)
0.641946	0.0017	0.641563	0.0017	0.4179	
rem life(col)	6.8072E+03		6.8332E+03	0.0019	k(col/abs/tk ln)
0.641263	0.0016	0.640798	0.0016		
rem life(abs)	6.7972E+03		6.8352E+03	0.0019	life(col/abs/tl)
6.8395E+03	0.0017	6.8545E+03	0.0013		
source points generated 5076					

estimator	cycle	141	ave of	91 cycles	combination
simple average	combined average		corr		
k(collision)	0.627989		0.640813	0.0018	k(col/abs)
0.640284	0.0017	0.640055	0.0017	0.8734	
k(absorption)	0.626929		0.639755	0.0017	k(abs/tk ln)
0.641274	0.0016	0.640686	0.0016	0.2903	
k(trk length)	0.629894		0.642793	0.0023	k(tk ln/col)
0.641803	0.0017	0.641420	0.0017	0.4247	
rem life(col)	6.9721E+03		6.8347E+03	0.0019	k(col/abs/tk ln)
0.641120	0.0016	0.640655	0.0016		
rem life(abs)	6.9345E+03		6.8363E+03	0.0019	life(col/abs/tl)
6.8405E+03	0.0017	6.8546E+03	0.0013		

source points generated 4877

estimator	cycle	142	ave of	92 cycles	combination
simple average			combined average	corr	
k(collision)	0.641648		0.640822	0.0018	k(col/abs)
0.640287	0.0017	0.640054	0.0017	0.8733	
k(absorption)	0.639385		0.639751	0.0017	k(abs/tk ln)
0.641235	0.0016	0.640659	0.0016	0.2901	
k(trk length)	0.636033		0.642720	0.0023	k(tk ln/col)
0.641771	0.0017	0.641402	0.0017	0.4237	
rem life(col)	6.9408E+03		6.8358E+03	0.0019	k(col/abs/tk ln)
0.641098	0.0016	0.640628	0.0016		
rem life(abs)	6.9710E+03		6.8378E+03	0.0019	life(col/abs/tl)
6.8420E+03	0.0017	6.8561E+03	0.0013		

source points generated 5094

estimator	cycle	143	ave of	93 cycles	combination
simple average			combined average	corr	
k(collision)	0.646562		0.640884	0.0018	k(col/abs)
0.640376	0.0017	0.640174	0.0017	0.8728	
k(absorption)	0.650681		0.639868	0.0017	k(abs/tk ln)
0.641399	0.0016	0.640787	0.0016	0.3010	
k(trk length)	0.662235		0.642930	0.0023	k(tk ln/col)
0.641907	0.0017	0.641493	0.0017	0.4264	
rem life(col)	6.7262E+03		6.8347E+03	0.0019	k(col/abs/tk ln)
0.641227	0.0016	0.640781	0.0016		
rem life(abs)	6.7099E+03		6.8364E+03	0.0019	life(col/abs/tl)
6.8408E+03	0.0016	6.8554E+03	0.0013		

source points generated 5003

estimator	cycle	144	ave of	94 cycles	combination
simple average			combined average	corr	
k(collision)	0.627568		0.640742	0.0018	k(col/abs)
0.640251	0.0017	0.640044	0.0017	0.8741	
k(absorption)	0.629723		0.639761	0.0017	k(abs/tk ln)
0.641319	0.0016	0.640702	0.0016	0.3030	
k(trk length)	0.637937		0.642877	0.0022	k(tk ln/col)
0.641809	0.0017	0.641389	0.0017	0.4274	
rem life(col)	6.8641E+03		6.8350E+03	0.0019	k(col/abs/tk ln)
0.641126	0.0016	0.640689	0.0016		
rem life(abs)	6.8591E+03		6.8366E+03	0.0019	life(col/abs/tl)
6.8414E+03	0.0016	6.8565E+03	0.0013		

source points generated 4863

estimator	cycle	145	ave of	95 cycles	combination
simple average			combined average	corr	
k(collision)	0.633229		0.640663	0.0018	k(col/abs)
0.640175	0.0017	0.639967	0.0017	0.8747	
k(absorption)	0.632681		0.639686	0.0017	k(abs/tk ln)
0.641315	0.0016	0.640677	0.0016	0.2986	
k(trk length)	0.649295		0.642944	0.0022	k(tk ln/col)
0.641804	0.0017	0.641360	0.0017	0.4226	
rem life(col)	6.9634E+03		6.8363E+03	0.0019	k(col/abs/tk ln)
0.641098	0.0015	0.640663	0.0016		

rem life(abs) 6.9579E+03 6.8379E+03 0.0019 life(col/abs/tl)
6.8426E+03 0.0016 6.8575E+03 0.0013
source points generated 5000

estimator	cycle	146	ave of	96 cycles	combination
simple average	combined average		corr		
k(collision)	0.634989		0.640604	0.0017	k(col/abs)
0.640150	0.0016	0.639954	0.0017	0.8730	
k(absorption)	0.640568		0.639695	0.0017	k(abs/tk ln)
0.641283	0.0016	0.640660	0.0015	0.2977	
k(trk length)	0.635911		0.642871	0.0022	k(tk ln/col)
0.641737	0.0017	0.641296	0.0016	0.4242	
rem life(col)	6.9780E+03		6.8378E+03	0.0019	k(col/abs/tk ln)
0.641057	0.0015	0.640645	0.0016		
rem life(abs)	6.9687E+03		6.8393E+03	0.0019	life(col/abs/tl)
6.8438E+03	0.0016	6.8584E+03	0.0013		
source points generated 5015					

estimator	cycle	147	ave of	97 cycles	combination
simple average	combined average		corr		
k(collision)	0.645616		0.640656	0.0017	k(col/abs)
0.640169	0.0016	0.639959	0.0017	0.8715	
k(absorption)	0.638517		0.639683	0.0016	k(abs/tk ln)
0.641242	0.0015	0.640628	0.0015	0.2979	
k(trk length)	0.636154		0.642802	0.0022	k(tk ln/col)
0.641729	0.0017	0.641313	0.0016	0.4209	
rem life(col)	6.7464E+03		6.8369E+03	0.0018	k(col/abs/tk ln)
0.641047	0.0015	0.640616	0.0015		
rem life(abs)	6.7770E+03		6.8386E+03	0.0018	life(col/abs/tl)
6.8430E+03	0.0016	6.8576E+03	0.0013		
source points generated 5056					

estimator	cycle	148	ave of	98 cycles	combination
simple average	combined average		corr		
k(collision)	0.653175		0.640783	0.0017	k(col/abs)
0.640328	0.0016	0.640162	0.0017	0.8723	
k(absorption)	0.658171		0.639872	0.0016	k(abs/tk ln)
0.641318	0.0015	0.640783	0.0015	0.2881	
k(trk length)	0.639055		0.642763	0.0022	k(tk ln/col)
0.641773	0.0016	0.641403	0.0016	0.4147	
rem life(col)	6.7544E+03		6.8360E+03	0.0018	k(col/abs/tk ln)
0.641139	0.0015	0.640779	0.0015		
rem life(abs)	6.7780E+03		6.8380E+03	0.0018	life(col/abs/tl)
6.8423E+03	0.0016	6.8568E+03	0.0013		
source points generated 5066					

estimator	cycle	149	ave of	99 cycles	combination
simple average	combined average		corr		
k(collision)	0.643084		0.640807	0.0017	k(col/abs)
0.640332	0.0016	0.640159	0.0016	0.8717	
k(absorption)	0.638382		0.639857	0.0016	k(abs/tk ln)
0.641247	0.0015	0.640727	0.0015	0.2882	
k(trk length)	0.630361		0.642638	0.0021	k(tk ln/col)
0.641722	0.0016	0.641376	0.0016	0.4110	

rem life(col)	6.7212E+03	6.8349E+03	0.0018	k(col/abs/tk ln)
0.641100 0.0015	0.640728	0.0015		
rem life(abs)	6.7165E+03	6.8368E+03	0.0018	life(col/abs/tl)
6.8412E+03 0.0016	6.8563E+03	0.0013		
source points generated	4954			

estimator	cycle	150	ave of	100 cycles	combination
simple average	combined average		corr		
k(collision)	0.635515		0.640754	0.0017	k(col/abs)
0.640289 0.0016	0.640117	0.0016	0.8718		
k(absorption)	0.636523		0.639823	0.0016	k(abs/tk ln)
0.641235 0.0015	0.640707	0.0015	0.2878		
k(trk length)	0.643476		0.642646	0.0021	k(tk ln/col)
0.641700 0.0016	0.641345	0.0016	0.4102		
rem life(col)	6.9265E+03		6.8358E+03	0.0018	k(col/abs/tk ln)
0.641075 0.0015	0.640707	0.0015			
rem life(abs)	6.9094E+03		6.8375E+03	0.0018	life(col/abs/tl)
6.8420E+03 0.0016	6.8571E+03	0.0013			
source points generated	4923				

estimator	cycle	151	ave of	101 cycles	combination
simple average	combined average		corr		
k(collision)	0.628289		0.640630	0.0017	k(col/abs)
0.640198 0.0016	0.640023	0.0016	0.8712		
k(absorption)	0.633922		0.639765	0.0016	k(abs/tk ln)
0.641146 0.0015	0.640624	0.0015	0.2912		
k(trk length)	0.630675		0.642528	0.0021	k(tk ln/col)
0.641579 0.0016	0.641223	0.0016	0.4159		
rem life(col)	6.8783E+03		6.8362E+03	0.0018	k(col/abs/tk ln)
0.640974 0.0015	0.640616	0.0015			
rem life(abs)	6.8840E+03		6.8380E+03	0.0018	life(col/abs/tl)
6.8423E+03 0.0016	6.8569E+03	0.0013			
source points generated	5005				

estimator	cycle	152	ave of	102 cycles	combination
simple average	combined average		corr		
k(collision)	0.647419		0.640697	0.0017	k(col/abs)
0.640252 0.0016	0.640068	0.0016	0.8713		
k(absorption)	0.644006		0.639806	0.0016	k(abs/tk ln)
0.641248 0.0015	0.640690	0.0015	0.2938		
k(trk length)	0.659074		0.642690	0.0021	k(tk ln/col)
0.641694 0.0016	0.641309	0.0016	0.4196		
rem life(col)	6.8862E+03		6.8367E+03	0.0018	k(col/abs/tk ln)
0.641065 0.0015	0.640680	0.0015			
rem life(abs)	6.9012E+03		6.8386E+03	0.0018	life(col/abs/tl)
6.8427E+03 0.0015	6.8566E+03	0.0012			
source points generated	5162				

estimator	cycle	153	ave of	103 cycles	combination
simple average	combined average		corr		
k(collision)	0.638691		0.640677	0.0017	k(col/abs)
0.640174 0.0016	0.640007	0.0016	0.8659		
k(absorption)	0.625876		0.639671	0.0016	k(abs/tk ln)
0.641149 0.0015	0.640588	0.0015	0.2971		

k(trk length)	0.636192	0.642627	0.0021	k(tk ln/col)
0.641652	0.0016	0.641275	0.0016	0.4199
rem life(col)	6.9654E+03	6.8379E+03	0.0018	k(col/abs/tk ln)
0.640992	0.0015	0.640605	0.0015	
rem life(abs)	6.9923E+03	6.8401E+03	0.0018	life(col/abs/tl)
6.8438E+03	0.0015	6.8569E+03	0.0012	
source points generated	4911			

estimator	cycle	154	ave of	104 cycles	combination
simple average	combined average		corr		
k(collision)	0.631166		0.640586	0.0016	k(col/abs)
0.640093	0.0016	0.639924	0.0016	0.8666	
k(absorption)	0.632201		0.639599	0.0016	k(abs/tk ln)
0.641097	0.0015	0.640533	0.0015	0.2980	
k(trk length)	0.639281		0.642595	0.0021	k(tk ln/col)
0.641590	0.0016	0.641207	0.0015	0.4203	
rem life(col)	6.7975E+03		6.8375E+03	0.0018	k(col/abs/tk ln)
0.640927	0.0014	0.640545	0.0015		
rem life(abs)	6.7822E+03		6.8395E+03	0.0017	life(col/abs/tl)
6.8436E+03	0.0015	6.8573E+03	0.0012		
source points generated	4969				

estimator	cycle	155	ave of	105 cycles	combination
simple average	combined average		corr		
k(collision)	0.633998		0.640523	0.0016	k(col/abs)
0.640043	0.0015	0.639874	0.0016	0.8667	
k(absorption)	0.635732		0.639563	0.0016	k(abs/tk ln)
0.641032	0.0015	0.640473	0.0014	0.2997	
k(trk length)	0.632696		0.642501	0.0021	k(tk ln/col)
0.641512	0.0016	0.641132	0.0015	0.4228	
rem life(col)	6.9945E+03		6.8390E+03	0.0017	k(col/abs/tk ln)
0.640862	0.0014	0.640483	0.0015		
rem life(abs)	6.9586E+03		6.8407E+03	0.0017	life(col/abs/tl)
6.8448E+03	0.0015	6.8587E+03	0.0012		
source points generated	5035				

estimator	cycle	156	ave of	106 cycles	combination
simple average	combined average		corr		
k(collision)	0.643390		0.640550	0.0016	k(col/abs)
0.640096	0.0015	0.639948	0.0016	0.8657	
k(absorption)	0.648021		0.639642	0.0016	k(abs/tk ln)
0.641000	0.0015	0.640487	0.0014	0.2882	
k(trk length)	0.627340		0.642358	0.0020	k(tk ln/col)
0.641454	0.0015	0.641102	0.0015	0.4173	
rem life(col)	6.8999E+03		6.8396E+03	0.0017	k(col/abs/tk ln)
0.640850	0.0014	0.640497	0.0014		
rem life(abs)	6.8869E+03		6.8411E+03	0.0017	life(col/abs/tl)
6.8449E+03	0.0015	6.8573E+03	0.0012		
source points generated	5049				

estimator	cycle	157	ave of	107 cycles	combination
simple average	combined average		corr		
k(collision)	0.640547		0.640550	0.0016	k(col/abs)
0.640079	0.0015	0.639927	0.0015	0.8651	

k(absorption)	0.635896	0.639607	0.0015	k(abs/tk ln)
0.640965	0.0014	0.640452	0.0014	0.2888
k(trk length)	0.638633	0.642323	0.0020	k(tk ln/col)
0.641436	0.0015	0.641091	0.0015	0.4171
rem life(col)	6.7306E+03	6.8386E+03	0.0017	k(col/abs/tk ln)
0.640827	0.0014	0.640465	0.0014	
rem life(abs)	6.7436E+03	6.8402E+03	0.0017	life(col/abs/tl)
6.8441E+03	0.0015	6.8569E+03	0.0012	
source points generated	4977			

estimator	cycle	158	ave of	108 cycles	combination
simple average	combined average		corr		
k(collision)	0.636556	0.640513	0.0016	k(col/abs)	
0.640054	0.0015	0.639904	0.0015	0.8650	
k(absorption)	0.638180	0.639594	0.0015	k(abs/tk ln)	
0.640882	0.0014	0.640385	0.0014	0.2884	
k(trk length)	0.625795	0.642170	0.0020	k(tk ln/col)	
0.641341	0.0015	0.641010	0.0015	0.4182	
rem life(col)	6.8219E+03	6.8384E+03	0.0017	k(col/abs/tk ln)	
0.640759	0.0014	0.640397	0.0014		
rem life(abs)	6.7681E+03	6.8395E+03	0.0017	life(col/abs/tl)	
6.8435E+03	0.0015	6.8560E+03	0.0012		
source points generated	4907				

estimator	cycle	159	ave of	109 cycles	combination
simple average	combined average		corr		
k(collision)	0.643165	0.640538	0.0016	k(col/abs)	
0.640060	0.0015	0.639904	0.0015	0.8643	
k(absorption)	0.638256	0.639582	0.0015	k(abs/tk ln)	
0.640915	0.0014	0.640398	0.0014	0.2871	
k(trk length)	0.650689	0.642248	0.0020	k(tk ln/col)	
0.641393	0.0015	0.641048	0.0015	0.4188	
rem life(col)	6.8890E+03	6.8389E+03	0.0017	k(col/abs/tk ln)	
0.640789	0.0014	0.640411	0.0014		
rem life(abs)	6.8641E+03	6.8397E+03	0.0017	life(col/abs/tl)	
6.8438E+03	0.0015	6.8562E+03	0.0012		
source points generated	5099				

estimator	cycle	160	ave of	110 cycles	combination
simple average	combined average		corr		
k(collision)	0.642781	0.640558	0.0016	k(col/abs)	
0.640079	0.0015	0.639923	0.0015	0.8644	
k(absorption)	0.641572	0.639600	0.0015	k(abs/tk ln)	
0.640975	0.0014	0.640437	0.0014	0.2876	
k(trk length)	0.653509	0.642350	0.0020	k(tk ln/col)	
0.641454	0.0015	0.641088	0.0015	0.4190	
rem life(col)	6.9382E+03	6.8398E+03	0.0017	k(col/abs/tk ln)	
0.640836	0.0014	0.640450	0.0014		
rem life(abs)	6.9281E+03	6.8406E+03	0.0017	life(col/abs/tl)	
6.8444E+03	0.0015	6.8563E+03	0.0012		
source points generated	4974				

estimator	cycle	161	ave of	111 cycles	combination
simple average	combined average		corr		

k(collision)	0.656403	0.640701	0.0016	k(col/abs)
0.640195	0.0015	0.640009	0.0015	0.8652
k(absorption)	0.649602	0.639690	0.0015	k(abs/tk ln)
0.641176	0.0014	0.640539	0.0014	0.3006
k(trk length)	0.677045	0.642663	0.0020	k(tk ln/col)
0.641682	0.0015	0.641241	0.0015	0.4367
rem life(col)	6.8541E+03	6.8399E+03	0.0017	k(col/abs/tk ln)
0.641018	0.0014	0.640544	0.0014	
rem life(abs)	6.8392E+03	6.8405E+03	0.0017	life(col/abs/tl)
6.8445E+03	0.0014	6.8566E+03	0.0012	
source points generated	5111			

estimator	cycle	162	ave of	112 cycles	combination
simple average	combined	average	corr		
k(collision)	0.652620	0.640807	0.0016	k(col/abs)	
0.640294	0.0015	0.640099	0.0015	0.8666	
k(absorption)	0.649936	0.639782	0.0015	k(abs/tk ln)	
0.641268	0.0014	0.640630	0.0014	0.3053	
k(trk length)	0.653021	0.642755	0.0020	k(tk ln/col)	
0.641781	0.0015	0.641345	0.0015	0.4407	
rem life(col)	6.6677E+03	6.8384E+03	0.0017	k(col/abs/tk ln)	
0.641115	0.0014	0.640632	0.0014		
rem life(abs)	6.6960E+03	6.8393E+03	0.0017	life(col/abs/tl)	
6.8430E+03	0.0015	6.8544E+03	0.0012		
source points generated	4979				

estimator	cycle	163	ave of	113 cycles	combination
simple average	combined	average	corr		
k(collision)	0.620370	0.640626	0.0016	k(col/abs)	
0.640095	0.0015	0.639925	0.0015	0.8710	
k(absorption)	0.615089	0.639563	0.0015	k(abs/tk ln)	
0.641100	0.0014	0.640473	0.0014	0.3167	
k(trk length)	0.629458	0.642638	0.0020	k(tk ln/col)	
0.641632	0.0015	0.641195	0.0015	0.4481	
rem life(col)	6.8843E+03	6.8388E+03	0.0017	k(col/abs/tk ln)	
0.640942	0.0014	0.640487	0.0014		
rem life(abs)	6.9105E+03	6.8399E+03	0.0016	life(col/abs/tl)	
6.8435E+03	0.0014	6.8550E+03	0.0012		
source points generated	4713				

estimator	cycle	164	ave of	114 cycles	combination
simple average	combined	average	corr		
k(collision)	0.649285	0.640702	0.0016	k(col/abs)	
0.640152	0.0015	0.639968	0.0015	0.8708	
k(absorption)	0.643934	0.639601	0.0015	k(abs/tk ln)	
0.641115	0.0014	0.640499	0.0014	0.3162	
k(trk length)	0.641592	0.642628	0.0020	k(tk ln/col)	
0.641665	0.0015	0.641253	0.0015	0.4462	
rem life(col)	6.7503E+03	6.8380E+03	0.0016	k(col/abs/tk ln)	
0.640977	0.0014	0.640511	0.0014		
rem life(abs)	6.7403E+03	6.8390E+03	0.0016	life(col/abs/tl)	
6.8428E+03	0.0014	6.8544E+03	0.0012		
source points generated	5254				

estimator	cycle	165	ave of	115 cycles	combination
simple average	combined average		corr		
k(collision)	0.628798		0.640599	0.0016	k(col/abs)
0.640068	0.0015	0.639877	0.0015	0.8712	
k(absorption)	0.632202		0.639537	0.0015	k(abs/tk ln)
0.641023	0.0014	0.640411	0.0014	0.3204	
k(trk length)	0.628810		0.642508	0.0020	k(tk ln/col)
0.641553	0.0015	0.641142	0.0015	0.4516	
rem life(col)	6.7658E+03		6.8374E+03	0.0016	k(col/abs/tk ln)
0.640881	0.0014	0.640414	0.0014		
rem life(abs)	6.7371E+03		6.8381E+03	0.0016	life(col/abs/tl)
6.8420E+03	0.0014	6.8539E+03	0.0012		
source points generated		4862			

estimator	cycle	166	ave of	116 cycles	combination
simple average	combined average		corr		
k(collision)	0.636410		0.640563	0.0015	k(col/abs)
0.640054	0.0015	0.639870	0.0015	0.8702	
k(absorption)	0.640488		0.639545	0.0015	k(abs/tk ln)
0.641019	0.0014	0.640412	0.0014	0.3203	
k(trk length)	0.640806		0.642494	0.0020	k(tk ln/col)
0.641528	0.0015	0.641113	0.0015	0.4517	
rem life(col)	6.7509E+03		6.8367E+03	0.0016	k(col/abs/tk ln)
0.640867	0.0014	0.640416	0.0014		
rem life(abs)	6.7488E+03		6.8374E+03	0.0016	life(col/abs/tl)
6.8413E+03	0.0014	6.8533E+03	0.0012		
source points generated		5043			

estimator	cycle	167	ave of	117 cycles	combination
simple average	combined average		corr		
k(collision)	0.611049		0.640310	0.0016	k(col/abs)
0.639837	0.0015	0.639610	0.0015	0.8749	
k(absorption)	0.618202		0.639363	0.0015	k(abs/tk ln)
0.640740	0.0015	0.640100	0.0014	0.3560	
k(trk length)	0.598548		0.642118	0.0020	k(tk ln/col)
0.641214	0.0016	0.640781	0.0015	0.4905	
rem life(col)	6.7877E+03		6.8362E+03	0.0016	k(col/abs/tk ln)
0.640597	0.0014	0.640079	0.0014		
rem life(abs)	6.7969E+03		6.8370E+03	0.0016	life(col/abs/tl)
6.8411E+03	0.0014	6.8535E+03	0.0012		
source points generated		4808			

estimator	cycle	168	ave of	118 cycles	combination
simple average	combined average		corr		
k(collision)	0.652656		0.640415	0.0016	k(col/abs)
0.639938	0.0015	0.639707	0.0015	0.8762	
k(absorption)	0.650925		0.639461	0.0015	k(abs/tk ln)
0.640824	0.0015	0.640194	0.0014	0.3590	
k(trk length)	0.650200		0.642187	0.0020	k(tk ln/col)
0.641301	0.0016	0.640881	0.0015	0.4926	
rem life(col)	6.7788E+03		6.8357E+03	0.0016	k(col/abs/tk ln)
0.640687	0.0014	0.640170	0.0014		
rem life(abs)	6.7673E+03		6.8364E+03	0.0016	life(col/abs/tl)
6.8405E+03	0.0014	6.8528E+03	0.0012		

source points generated 5337

estimator	cycle	169	ave of	119 cycles	combination
simple average	combined average		corr		
k(collision)	0.654867		0.640536	0.0016	k(col/abs)
0.640037	0.0015	0.639780	0.0015	0.8768	
k(absorption)	0.648701		0.639538	0.0015	k(abs/tk ln)
0.640867	0.0014	0.640260	0.0014	0.3584	
k(trk length)	0.643213		0.642195	0.0020	k(tk ln/col)
0.641366	0.0016	0.640985	0.0015	0.4898	
rem life(col)	6.7683E+03		6.8352E+03	0.0016	k(col/abs/tk ln)
0.640757	0.0014	0.640224	0.0014		
rem life(abs)	6.7820E+03		6.8360E+03	0.0016	life(col/abs/tl)
6.8400E+03	0.0014	6.8521E+03	0.0011		

source points generated 5029

estimator	cycle	170	ave of	120 cycles	combination
simple average	combined average		corr		
k(collision)	0.621286		0.640376	0.0016	k(col/abs)
0.639923	0.0015	0.639659	0.0015	0.8749	
k(absorption)	0.631380		0.639470	0.0015	k(abs/tk ln)
0.640665	0.0015	0.640067	0.0014	0.3641	
k(trk length)	0.601933		0.641860	0.0021	k(tk ln/col)
0.641118	0.0016	0.640739	0.0015	0.5080	
rem life(col)	6.7491E+03		6.8345E+03	0.0016	k(col/abs/tk ln)
0.640569	0.0014	0.640017	0.0014		
rem life(abs)	6.7334E+03		6.8351E+03	0.0016	life(col/abs/tl)
6.8393E+03	0.0014	6.8518E+03	0.0011		

source points generated 4723

estimator	cycle	171	ave of	121 cycles	combination
simple average	combined average		corr		
k(collision)	0.638210		0.640358	0.0016	k(col/abs)
0.639940	0.0015	0.639704	0.0015	0.8725	
k(absorption)	0.645594		0.639521	0.0015	k(abs/tk ln)
0.640675	0.0015	0.640100	0.0014	0.3622	
k(trk length)	0.638090		0.641828	0.0020	k(tk ln/col)
0.641093	0.0016	0.640717	0.0015	0.5082	
rem life(col)	6.6753E+03		6.8331E+03	0.0016	k(col/abs/tk ln)
0.640569	0.0014	0.640061	0.0014		
rem life(abs)	6.6590E+03		6.8336E+03	0.0016	life(col/abs/tl)
6.8381E+03	0.0014	6.8513E+03	0.0011		

source points generated 5127

estimator	cycle	172	ave of	122 cycles	combination
simple average	combined average		corr		
k(collision)	0.638630		0.640344	0.0016	k(col/abs)
0.639939	0.0015	0.639712	0.0015	0.8721	
k(absorption)	0.641221		0.639535	0.0014	k(abs/tk ln)
0.640702	0.0014	0.640120	0.0014	0.3624	
k(trk length)	0.646843		0.641870	0.0020	k(tk ln/col)
0.641107	0.0016	0.640717	0.0015	0.5074	
rem life(col)	6.8220E+03		6.8331E+03	0.0016	k(col/abs/tk ln)
0.640583	0.0014	0.640086	0.0014		

rem life(abs) 6.8335E+03 6.8336E+03 0.0016 life(col/abs/tl)
6.8379E+03 0.0014 6.8506E+03 0.0011
source points generated 5060

estimator	cycle	173	ave of	123 cycles	combination
simple average			combined average	corr	
k(collision)	0.643179		0.640367	0.0015	k(col/abs)
0.639957	0.0014	0.639726	0.0014	0.8721	
k(absorption)	0.640924		0.639546	0.0014	k(abs/tk ln)
0.640677	0.0014	0.640112	0.0014	0.3614	
k(trk length)	0.634151		0.641807	0.0020	k(tk ln/col)
0.641087	0.0015	0.640719	0.0015	0.5056	
rem life(col)	6.9900E+03		6.8343E+03	0.0016	k(col/abs/tk ln)
0.640573	0.0014	0.640076	0.0014		
rem life(abs)	6.9948E+03		6.8350E+03	0.0016	life(col/abs/tl)
6.8388E+03	0.0014	6.8504E+03	0.0011		
source points generated					5004

estimator	cycle	174	ave of	124 cycles	combination
simple average			combined average	corr	
k(collision)	0.639353		0.640359	0.0015	k(col/abs)
0.639950	0.0014	0.639720	0.0014	0.8721	
k(absorption)	0.639021		0.639542	0.0014	k(abs/tk ln)
0.640759	0.0014	0.640142	0.0014	0.3577	
k(trk length)	0.662764		0.641976	0.0020	k(tk ln/col)
0.641167	0.0015	0.640747	0.0015	0.5001	
rem life(col)	6.7239E+03		6.8334E+03	0.0016	k(col/abs/tk ln)
0.640626	0.0014	0.640110	0.0014		
rem life(abs)	6.6988E+03		6.8339E+03	0.0016	life(col/abs/tl)
6.8378E+03	0.0014	6.8492E+03	0.0011		
source points generated					4962

estimator	cycle	175	ave of	125 cycles	combination
simple average			combined average	corr	
k(collision)	0.629080		0.640269	0.0015	k(col/abs)
0.639847	0.0014	0.639620	0.0014	0.8730	
k(absorption)	0.624899		0.639425	0.0014	k(abs/tk ln)
0.640673	0.0014	0.640049	0.0014	0.3599	
k(trk length)	0.635067		0.641921	0.0020	k(tk ln/col)
0.641095	0.0015	0.640668	0.0015	0.5015	
rem life(col)	7.0229E+03		6.8350E+03	0.0016	k(col/abs/tk ln)
0.640538	0.0014	0.640021	0.0014		
rem life(abs)	7.0333E+03		6.8355E+03	0.0016	life(col/abs/tl)
6.8393E+03	0.0014	6.8507E+03	0.0011		
source points generated					4920

estimator	cycle	176	ave of	126 cycles	combination
simple average			combined average	corr	
k(collision)	0.619571		0.640104	0.0015	k(col/abs)
0.639699	0.0014	0.639465	0.0014	0.8759	
k(absorption)	0.622827		0.639293	0.0014	k(abs/tk ln)
0.640595	0.0014	0.639962	0.0014	0.3588	
k(trk length)	0.638822		0.641896	0.0020	k(tk ln/col)
0.641000	0.0015	0.640562	0.0015	0.4976	

rem life(col)	6.9485E+03	6.8359E+03	0.0016	k(col/abs/tk ln)
0.640431 0.0014	0.639926	0.0014		
rem life(abs)	6.9682E+03	6.8365E+03	0.0016	life(col/abs/tl)
6.8403E+03 0.0014	6.8516E+03	0.0011		
source points generated	4920			

estimator	cycle	177	ave of	127 cycles	combination
simple average	combined average		corr		
k(collision)	0.622859		0.639969	0.0015	k(col/abs)
0.639576 0.0014	0.639339	0.0014	0.8778		
k(absorption)	0.625291		0.639183	0.0014	k(abs/tk ln)
0.640535 0.0014	0.639892	0.0014	0.3571		
k(trk length)	0.640677		0.641886	0.0020	k(tk ln/col)
0.640927 0.0015	0.640477	0.0015	0.4939		
rem life(col)	7.1014E+03		6.8379E+03	0.0016	k(col/abs/tk ln)
0.640346 0.0014	0.639852	0.0014			
rem life(abs)	7.0907E+03		6.8385E+03	0.0016	life(col/abs/tl)
6.8421E+03 0.0014	6.8531E+03	0.0011			
source points generated	4986				

estimator	cycle	178	ave of	128 cycles	combination
simple average	combined average		corr		
k(collision)	0.626537		0.639864	0.0015	k(col/abs)
0.639519 0.0014	0.639304	0.0014	0.8737		
k(absorption)	0.638149		0.639175	0.0014	k(abs/tk ln)
0.640471 0.0014	0.639848	0.0013	0.3563		
k(trk length)	0.626532		0.641766	0.0020	k(tk ln/col)
0.640815 0.0015	0.640366	0.0015	0.4990		
rem life(col)	6.8334E+03		6.8379E+03	0.0016	k(col/abs/tk ln)
0.640268 0.0014	0.639815	0.0014			
rem life(abs)	6.8377E+03		6.8385E+03	0.0016	life(col/abs/tl)
6.8423E+03 0.0014	6.8537E+03	0.0011			
source points generated	5009				

estimator	cycle	179	ave of	129 cycles	combination
simple average	combined average		corr		
k(collision)	0.645445		0.639907	0.0015	k(col/abs)
0.639552 0.0014	0.639328	0.0014	0.8737		
k(absorption)	0.642068		0.639197	0.0014	k(abs/tk ln)
0.640550 0.0014	0.639890	0.0013	0.3568		
k(trk length)	0.659356		0.641903	0.0020	k(tk ln/col)
0.640905 0.0015	0.640424	0.0015	0.5004		
rem life(col)	6.9064E+03		6.8384E+03	0.0015	k(col/abs/tk ln)
0.640336 0.0014	0.639856	0.0013			
rem life(abs)	6.9177E+03		6.8391E+03	0.0015	life(col/abs/tl)
6.8427E+03 0.0014	6.8537E+03	0.0011			
source points generated	5134				

estimator	cycle	180	ave of	130 cycles	combination
simple average	combined average		corr		
k(collision)	0.622017		0.639769	0.0015	k(col/abs)
0.639435 0.0014	0.639211	0.0014	0.8751		
k(absorption)	0.626566		0.639100	0.0014	k(abs/tk ln)
0.640477 0.0014	0.639812	0.0013	0.3587		

k(trk length)	0.635552	0.641854	0.0019	k(tk ln/col)
0.640812	0.0015	0.640326	0.0015	0.5005
rem life(col)	6.9260E+03	6.8391E+03	0.0015	k(col/abs/tk ln)
0.640241	0.0014	0.639779	0.0013	
rem life(abs)	6.9375E+03	6.8399E+03	0.0015	life(col/abs/tl)
6.8436E+03	0.0014	6.8546E+03	0.0011	
source points generated	4844			

estimator	cycle	181	ave of	131 cycles	combination
simple average	combined average		corr		
k(collision)	0.626998		0.639672	0.0015	k(col/abs)
0.639351	0.0014	0.639130	0.0014	0.8759	
k(absorption)	0.629924		0.639030	0.0014	k(abs/tk ln)
0.640378	0.0014	0.639719	0.0013	0.3638	
k(trk length)	0.625062		0.641726	0.0019	k(tk ln/col)
0.640699	0.0015	0.640215	0.0015	0.5056	
rem life(col)	6.9414E+03		6.8399E+03	0.0015	k(col/abs/tk ln)
0.640143	0.0014	0.639687	0.0013		
rem life(abs)	6.9171E+03		6.8405E+03	0.0015	life(col/abs/tl)
6.8444E+03	0.0013	6.8558E+03	0.0011		
source points generated	5031				

estimator	cycle	182	ave of	132 cycles	combination
simple average	combined average		corr		
k(collision)	0.633026		0.639621	0.0015	k(col/abs)
0.639314	0.0014	0.639100	0.0014	0.8758	
k(absorption)	0.635838		0.639006	0.0014	k(abs/tk ln)
0.640329	0.0014	0.639679	0.0013	0.3646	
k(trk length)	0.631980		0.641652	0.0019	k(tk ln/col)
0.640637	0.0015	0.640156	0.0015	0.5072	
rem life(col)	6.8489E+03		6.8400E+03	0.0015	k(col/abs/tk ln)
0.640093	0.0014	0.639649	0.0013		
rem life(abs)	6.8748E+03		6.8407E+03	0.0015	life(col/abs/tl)
6.8447E+03	0.0013	6.8561E+03	0.0011		
source points generated	5105				

estimator	cycle	183	ave of	133 cycles	combination
simple average	combined average		corr		
k(collision)	0.635721		0.639592	0.0015	k(col/abs)
0.639282	0.0014	0.639067	0.0014	0.8759	
k(absorption)	0.634456		0.638972	0.0014	k(abs/tk ln)
0.640341	0.0014	0.639670	0.0013	0.3621	
k(trk length)	0.649332		0.641710	0.0019	k(tk ln/col)
0.640651	0.0015	0.640151	0.0015	0.5049	
rem life(col)	6.7934E+03		6.8396E+03	0.0015	k(col/abs/tk ln)
0.640091	0.0013	0.639641	0.0013		
rem life(abs)	6.8099E+03		6.8405E+03	0.0015	life(col/abs/tl)
6.8446E+03	0.0013	6.8564E+03	0.0011		
source points generated	5026				

estimator	cycle	184	ave of	134 cycles	combination
simple average	combined average		corr		
k(collision)	0.647074		0.639648	0.0015	k(col/abs)
0.639311	0.0014	0.639076	0.0014	0.8746	

k(absorption)	0.639326	0.638974	0.0014	k(abs/tk ln)
0.640389	0.0014	0.639691	0.0013	0.3613
k(trk length)	0.654243	0.641803	0.0019	k(tk ln/col)
0.640726	0.0015	0.640212	0.0015	0.5071
rem life(col)	6.9220E+03	6.8402E+03	0.0015	k(col/abs/tk ln)
0.640142	0.0013	0.639657	0.0013	
rem life(abs)	6.9158E+03	6.8411E+03	0.0015	life(col/abs/tl)
6.8450E+03	0.0013	6.8562E+03	0.0011	
source points generated	5092			

estimator	cycle	185	ave of	135 cycles	combination
simple average	combined average		corr		
k(collision)	0.633747	0.639604	0.0015	k(col/abs)	
0.639221	0.0014	0.638993	0.0014	0.8702	
k(absorption)	0.620497	0.638837	0.0014	k(abs/tk ln)	
0.640376	0.0014	0.639654	0.0013	0.3411	
k(trk length)	0.656931	0.641915	0.0019	k(tk ln/col)	
0.640760	0.0015	0.640210	0.0014	0.5002	
rem life(col)	6.6606E+03	6.8389E+03	0.0015	k(col/abs/tk ln)	
0.640119	0.0013	0.639621	0.0013		
rem life(abs)	6.6987E+03	6.8400E+03	0.0015	life(col/abs/tl)	
6.8440E+03	0.0013	6.8558E+03	0.0011		
source points generated	4842				

estimator	cycle	186	ave of	136 cycles	combination
simple average	combined average		corr		
k(collision)	0.636547	0.639582	0.0015	k(col/abs)	
0.639208	0.0014	0.638985	0.0014	0.8700	
k(absorption)	0.638362	0.638834	0.0014	k(abs/tk ln)	
0.640463	0.0013	0.639682	0.0013	0.3369	
k(trk length)	0.665945	0.642092	0.0019	k(tk ln/col)	
0.640837	0.0015	0.640228	0.0014	0.4914	
rem life(col)	6.8430E+03	6.8389E+03	0.0015	k(col/abs/tk ln)	
0.640169	0.0013	0.639656	0.0013		
rem life(abs)	6.8449E+03	6.8400E+03	0.0015	life(col/abs/tl)	
6.8440E+03	0.0013	6.8559E+03	0.0011		
source points generated	5046				

estimator	cycle	187	ave of	137 cycles	combination
simple average	combined average		corr		
k(collision)	0.643473	0.639610	0.0015	k(col/abs)	
0.639217	0.0014	0.638984	0.0014	0.8693	
k(absorption)	0.637560	0.638825	0.0014	k(abs/tk ln)	
0.640414	0.0013	0.639646	0.0013	0.3368	
k(trk length)	0.629876	0.642003	0.0019	k(tk ln/col)	
0.640806	0.0015	0.640226	0.0014	0.4876	
rem life(col)	7.0811E+03	6.8407E+03	0.0015	k(col/abs/tk ln)	
0.640146	0.0013	0.639616	0.0013		
rem life(abs)	7.1283E+03	6.8421E+03	0.0015	life(col/abs/tl)	
6.8456E+03	0.0013	6.8561E+03	0.0011		
source points generated	5032				

estimator	cycle	188	ave of	138 cycles	combination
simple average	combined average		corr		

k(collision)	0.640987	0.639620	0.0015	k(col/abs)
0.639227	0.0014	0.638993	0.0014	0.8693
k(absorption)	0.640069	0.638834	0.0013	k(abs/tk ln)
0.640442	0.0013	0.639664	0.0013	0.3369
k(trk length)	0.648512	0.642050	0.0019	k(tk ln/col)
0.640835	0.0014	0.640244	0.0014	0.4876
rem life(col)	7.0268E+03	6.8420E+03	0.0015	k(col/abs/tk ln)
0.640168	0.0013	0.639634	0.0013	
rem life(abs)	7.0118E+03	6.8434E+03	0.0015	life(col/abs/tl)
6.8467E+03	0.0013	6.8571E+03	0.0011	
source points generated	4939			

estimator	cycle	189	ave of	139 cycles	combination
simple average	combined average		corr		
k(collision)	0.640974	0.639630	0.0014	k(col/abs)	
0.639223	0.0013	0.638982	0.0013	0.8688	
k(absorption)	0.636322	0.638816	0.0013	k(abs/tk ln)	
0.640426	0.0013	0.639647	0.0013	0.3371	
k(trk length)	0.640161	0.642036	0.0019	k(tk ln/col)	
0.640833	0.0014	0.640248	0.0014	0.4874	
rem life(col)	6.9130E+03	6.8426E+03	0.0015	k(col/abs/tk ln)	
0.640161	0.0013	0.639616	0.0013		
rem life(abs)	6.8935E+03	6.8437E+03	0.0015	life(col/abs/tl)	
6.8471E+03	0.0013	6.8573E+03	0.0011		
source points generated	5001				

estimator	cycle	190	ave of	140 cycles	combination
simple average	combined average		corr		
k(collision)	0.633661	0.639587	0.0014	k(col/abs)	
0.639176	0.0013	0.638934	0.0013	0.8691	
k(absorption)	0.631768	0.638765	0.0013	k(abs/tk ln)	
0.640358	0.0013	0.639583	0.0013	0.3399	
k(trk length)	0.630036	0.641951	0.0019	k(tk ln/col)	
0.640769	0.0014	0.640190	0.0014	0.4890	
rem life(col)	6.9267E+03	6.8432E+03	0.0015	k(col/abs/tk ln)	
0.640101	0.0013	0.639552	0.0013		
rem life(abs)	6.9217E+03	6.8443E+03	0.0015	life(col/abs/tl)	
6.8477E+03	0.0013	6.8581E+03	0.0011		
source points generated	4945				

estimator	cycle	191	ave of	141 cycles	combination
simple average	combined average		corr		
k(collision)	0.653698	0.639687	0.0014	k(col/abs)	
0.639284	0.0013	0.639053	0.0013	0.8707	
k(absorption)	0.655016	0.638881	0.0013	k(abs/tk ln)	
0.640441	0.0013	0.639695	0.0013	0.3422	
k(trk length)	0.649168	0.642002	0.0019	k(tk ln/col)	
0.640845	0.0014	0.640286	0.0014	0.4903	
rem life(col)	6.8792E+03	6.8434E+03	0.0015	k(col/abs/tk ln)	
0.640190	0.0013	0.639665	0.0013		
rem life(abs)	6.8925E+03	6.8446E+03	0.0015	life(col/abs/tl)	
6.8478E+03	0.0013	6.8577E+03	0.0011		
source points generated	5181				

estimator	cycle	192	ave of	142 cycles	combination
simple average	combined average		corr		
k(collision)	0.646182		0.639733	0.0014	k(col/abs)
0.639318 0.0013	0.639079	0.0013	0.8707		
k(absorption)	0.642172		0.638904	0.0013	k(abs/tk ln)
0.640472 0.0013	0.639722	0.0013	0.3428		
k(trk length)	0.647440		0.642040	0.0018	k(tk ln/col)
0.640887 0.0014	0.640330	0.0014	0.4911		
rem life(col)	6.8208E+03		6.8433E+03	0.0015	k(col/abs/tk ln)
0.640226 0.0013	0.639689	0.0013			
rem life(abs)	6.8047E+03		6.8443E+03	0.0015	life(col/abs/tl)
6.8475E+03 0.0013	6.8573E+03	0.0011			
source points generated 4971					

estimator	cycle	193	ave of	143 cycles	combination
simple average	combined average		corr		
k(collision)	0.639255		0.639730	0.0014	k(col/abs)
0.639317 0.0013	0.639078	0.0013	0.8707		
k(absorption)	0.638969		0.638904	0.0013	k(abs/tk ln)
0.640488 0.0013	0.639730	0.0013	0.3427		
k(trk length)	0.646533		0.642072	0.0018	k(tk ln/col)
0.640901 0.0014	0.640335	0.0014	0.4908		
rem life(col)	6.6258E+03		6.8417E+03	0.0015	k(col/abs/tk ln)
0.640235 0.0013	0.639698	0.0013			
rem life(abs)	6.6300E+03		6.8428E+03	0.0015	life(col/abs/tl)
6.8462E+03 0.0013	6.8564E+03	0.0011			
source points generated 4928					

estimator	cycle	194	ave of	144 cycles	combination
simple average	combined average		corr		
k(collision)	0.639171		0.639726	0.0014	k(col/abs)
0.639313 0.0013	0.639074	0.0013	0.8707		
k(absorption)	0.638317		0.638900	0.0013	k(abs/tk ln)
0.640477 0.0013	0.639722	0.0012	0.3427		
k(trk length)	0.639506		0.642054	0.0018	k(tk ln/col)
0.640890 0.0014	0.640328	0.0014	0.4908		
rem life(col)	6.9211E+03		6.8423E+03	0.0015	k(col/abs/tk ln)
0.640227 0.0013	0.639690	0.0013			
rem life(abs)	6.8962E+03		6.8432E+03	0.0015	life(col/abs/tl)
6.8466E+03 0.0013	6.8568E+03	0.0011			
source points generated 4993					

estimator	cycle	195	ave of	145 cycles	combination
simple average	combined average		corr		
k(collision)	0.658033		0.639852	0.0014	k(col/abs)
0.639428 0.0013	0.639172	0.0013	0.8728		
k(absorption)	0.653900		0.639004	0.0013	k(abs/tk ln)
0.640600 0.0013	0.639825	0.0013	0.3527		
k(trk length)	0.662815		0.642197	0.0018	k(tk ln/col)
0.641024 0.0014	0.640454	0.0014	0.4995		
rem life(col)	6.9869E+03		6.8433E+03	0.0015	k(col/abs/tk ln)
0.640351 0.0013	0.639788	0.0013			
rem life(abs)	6.9908E+03		6.8442E+03	0.0015	life(col/abs/tl)
6.8472E+03 0.0013	6.8563E+03	0.0011			

source points generated 5159

estimator	cycle	196	ave of	146 cycles	combination
simple average	combined	average	corr		
k(collision)	0.647308		0.639903	0.0014	k(col/abs)
0.639495	0.0013	0.639260	0.0013	0.8727	
k(absorption)	0.651212		0.639087	0.0013	k(abs/tk ln)
0.640642	0.0013	0.639899	0.0012	0.3509	
k(trk length)	0.642113		0.642196	0.0018	k(tk ln/col)
0.641050	0.0014	0.640496	0.0014	0.4986	
rem life(col)	7.0447E+03		6.8447E+03	0.0015	k(col/abs/tk ln)
0.640396	0.0013	0.639866	0.0012		
rem life(abs)	7.0002E+03		6.8453E+03	0.0015	life(col/abs/tl)
6.8480E+03	0.0013	6.8561E+03	0.0010		

source points generated 4894

estimator	cycle	197	ave of	147 cycles	combination
simple average	combined	average	corr		
k(collision)	0.653140		0.639993	0.0014	k(col/abs)
0.639605	0.0013	0.639401	0.0013	0.8733	
k(absorption)	0.658255		0.639218	0.0013	k(abs/tk ln)
0.640726	0.0013	0.640027	0.0012	0.3515	
k(trk length)	0.647686		0.642234	0.0018	k(tk ln/col)
0.641113	0.0014	0.640580	0.0014	0.4991	
rem life(col)	6.7886E+03		6.8443E+03	0.0015	k(col/abs/tk ln)
0.640481	0.0013	0.640003	0.0013		
rem life(abs)	6.7723E+03		6.8448E+03	0.0014	life(col/abs/tl)
6.8476E+03	0.0013	6.8556E+03	0.0010		

source points generated 5039

estimator	cycle	198	ave of	148 cycles	combination
simple average	combined	average	corr		
k(collision)	0.657711		0.640113	0.0014	k(col/abs)
0.639705	0.0013	0.639475	0.0013	0.8743	
k(absorption)	0.650999		0.639297	0.0013	k(abs/tk ln)
0.640794	0.0013	0.640104	0.0012	0.3543	
k(trk length)	0.650781		0.642291	0.0018	k(tk ln/col)
0.641202	0.0014	0.640697	0.0014	0.5007	
rem life(col)	6.8004E+03		6.8440E+03	0.0014	k(col/abs/tk ln)
0.640567	0.0013	0.640070	0.0012		
rem life(abs)	6.8036E+03		6.8445E+03	0.0014	life(col/abs/tl)
6.8471E+03	0.0013	6.8546E+03	0.0010		

source points generated 5055

estimator	cycle	199	ave of	149 cycles	combination
simple average	combined	average	corr		
k(collision)	0.645032		0.640146	0.0014	k(col/abs)
0.639731	0.0013	0.639496	0.0013	0.8743	
k(absorption)	0.642156		0.639316	0.0013	k(abs/tk ln)
0.640793	0.0013	0.640113	0.0012	0.3537	
k(trk length)	0.639051		0.642270	0.0018	k(tk ln/col)
0.641208	0.0014	0.640717	0.0013	0.4996	
rem life(col)	6.8267E+03		6.8439E+03	0.0014	k(col/abs/tk ln)
0.640577	0.0012	0.640076	0.0012		

rem life(abs)	6.8348E+03	6.8445E+03	0.0014	life(col/abs/tl)
6.8469E+03	0.0013	6.8540E+03	0.0010	
source points generated	4897			

estimator	cycle	200	ave of	150 cycles	combination
simple average		combined average		corr	
k(collision)	0.651521		0.640222	0.0014	k(col/abs)
0.639791	0.0013	0.639539	0.0013	0.8744	
k(absorption)	0.645893		0.639360	0.0013	k(abs/tk ln)
0.640804	0.0013	0.640143	0.0012	0.3521	
k(trk length)	0.639050		0.642248	0.0018	k(tk ln/col)
0.641235	0.0014	0.640776	0.0013	0.4961	
rem life(col)	6.8726E+03		6.8441E+03	0.0014	k(col/abs/tk ln)
0.640610	0.0012	0.640098	0.0012		
rem life(abs)	6.9112E+03		6.8449E+03	0.0014	life(col/abs/tl)
6.8471E+03	0.0012	6.8536E+03	0.0010		
source points generated	5071				

estimator	cycle	201	ave of	151 cycles	combination
simple average		combined average		corr	
k(collision)	0.621544		0.640098	0.0014	k(col/abs)
0.639666	0.0013	0.639415	0.0013	0.8770	
k(absorption)	0.620186		0.639233	0.0013	k(abs/tk ln)
0.640671	0.0013	0.640009	0.0012	0.3642	
k(trk length)	0.621111		0.642108	0.0018	k(tk ln/col)
0.641103	0.0014	0.640644	0.0013	0.5047	
rem life(col)	7.0184E+03		6.8452E+03	0.0014	k(col/abs/tk ln)
0.640480	0.0012	0.639965	0.0012		
rem life(abs)	6.9939E+03		6.8459E+03	0.0014	life(col/abs/tl)
6.8480E+03	0.0012	6.8541E+03	0.0010		
source points generated	4812				

estimator	cycle	202	ave of	152 cycles	combination
simple average		combined average		corr	
k(collision)	0.659949		0.640229	0.0014	k(col/abs)
0.639759	0.0013	0.639460	0.0013	0.8755	
k(absorption)	0.647771		0.639289	0.0013	k(abs/tk ln)
0.640792	0.0013	0.640073	0.0012	0.3696	
k(trk length)	0.670437		0.642295	0.0018	k(tk ln/col)
0.641262	0.0014	0.640773	0.0014	0.5164	
rem life(col)	6.9027E+03		6.8456E+03	0.0014	k(col/abs/tk ln)
0.640604	0.0013	0.640012	0.0012		
rem life(abs)	6.9499E+03		6.8466E+03	0.0014	life(col/abs/tl)
6.8484E+03	0.0012	6.8542E+03	0.0010		
source points generated	5324				

estimator	cycle	203	ave of	153 cycles	combination
simple average		combined average		corr	
k(collision)	0.634768		0.640193	0.0014	k(col/abs)
0.639724	0.0013	0.639426	0.0013	0.8757	
k(absorption)	0.634152		0.639256	0.0013	k(abs/tk ln)
0.640731	0.0013	0.640019	0.0012	0.3713	
k(trk length)	0.628730		0.642206	0.0018	k(tk ln/col)
0.641199	0.0014	0.640719	0.0013	0.5175	

rem life(col)	6.8630E+03	6.8457E+03	0.0014	k(col/abs/tk ln)
0.640552 0.0013	0.639958	0.0012		
rem life(abs)	6.8291E+03	6.8465E+03	0.0014	life(col/abs/tl)
6.8485E+03 0.0012	6.8545E+03	0.0010		
source points generated	4834			

estimator	cycle	204	ave of	154 cycles	combination
simple average	combined average		corr		
k(collision)	0.656778		0.640301	0.0014	k(col/abs)
0.639869 0.0013	0.639651	0.0013	0.8748		
k(absorption)	0.667270		0.639438	0.0013	k(abs/tk ln)
0.640833 0.0013	0.640208	0.0012	0.3668		
k(trk length)	0.645715		0.642229	0.0018	k(tk ln/col)
0.641265 0.0014	0.640818	0.0013	0.5161		
rem life(col)	6.6615E+03	6.8445E+03	0.0014	k(col/abs/tk ln)	
0.640656 0.0013	0.640173	0.0012			
rem life(abs)	6.6503E+03	6.8452E+03	0.0014	life(col/abs/tl)	
6.8472E+03 0.0012	6.8532E+03	0.0010			
source points generated	5176				

estimator	cycle	205	ave of	155 cycles	combination
simple average	combined average		corr		
k(collision)	0.658002		0.640415	0.0014	k(col/abs)
0.639980 0.0013	0.639757	0.0013	0.8769		
k(absorption)	0.656172		0.639546	0.0013	k(abs/tk ln)
0.640949 0.0013	0.640317	0.0012	0.3756		
k(trk length)	0.661274		0.642352	0.0018	k(tk ln/col)
0.641383 0.0014	0.640932	0.0013	0.5227		
rem life(col)	7.0231E+03	6.8457E+03	0.0014	k(col/abs/tk ln)	
0.640771 0.0013	0.640280	0.0013			
rem life(abs)	7.0332E+03	6.8464E+03	0.0014	life(col/abs/tl)	
6.8480E+03 0.0012	6.8529E+03	0.0010			
source points generated	5023				

estimator	cycle	206	ave of	156 cycles	combination
simple average	combined average		corr		
k(collision)	0.639467		0.640409	0.0014	k(col/abs)
0.639998 0.0013	0.639793	0.0013	0.8755		
k(absorption)	0.645882		0.639586	0.0013	k(abs/tk ln)
0.640933 0.0013	0.640329	0.0012	0.3713		
k(trk length)	0.631233		0.642280	0.0017	k(tk ln/col)
0.641345 0.0014	0.640906	0.0013	0.5221		
rem life(col)	6.8266E+03	6.8455E+03	0.0014	k(col/abs/tk ln)	
0.640758 0.0012	0.640297	0.0012			
rem life(abs)	6.8047E+03	6.8461E+03	0.0014	life(col/abs/tl)	
6.8479E+03 0.0012	6.8532E+03	0.0010			
source points generated	4825				

estimator	cycle	207	ave of	157 cycles	combination
simple average	combined average		corr		
k(collision)	0.633535		0.640365	0.0014	k(col/abs)
0.639948 0.0013	0.639743	0.0013	0.8757		
k(absorption)	0.630889		0.639531	0.0013	k(abs/tk ln)
0.640881 0.0013	0.640276	0.0012	0.3730		

k(trk length)	0.634661	0.642232	0.0017	k(tk ln/col)
0.641298	0.0014	0.640860	0.0013	0.5231
rem life(col)	6.7185E+03	6.8447E+03	0.0014	k(col/abs/tk ln)
0.640709	0.0012	0.640244	0.0012	
rem life(abs)	6.7171E+03	6.8453E+03	0.0014	life(col/abs/tl)
6.8474E+03	0.0012	6.8533E+03	0.0010	
source points generated	4924			

estimator	cycle	208	ave of	158 cycles	combination
simple average	combined average			corr	
k(collision)	0.632443		0.640315	0.0014	k(col/abs)
0.639892	0.0013	0.639688	0.0013	0.8761	
k(absorption)	0.629864		0.639470	0.0013	k(abs/tk ln)
0.640811	0.0013	0.640207	0.0012	0.3763	
k(trk length)	0.629757		0.642153	0.0017	k(tk ln/col)
0.641234	0.0014	0.640800	0.0013	0.5250	
rem life(col)	6.8252E+03		6.8446E+03	0.0014	k(col/abs/tk ln)
0.640646	0.0012	0.640177	0.0012		
rem life(abs)	6.8023E+03		6.8450E+03	0.0014	life(col/abs/tl)
6.8474E+03	0.0012	6.8539E+03	0.0010		
source points generated	5006				

estimator	cycle	209	ave of	159 cycles	combination
simple average	combined average			corr	
k(collision)	0.642869		0.640331	0.0014	k(col/abs)
0.639927	0.0013	0.639739	0.0013	0.8753	
k(absorption)	0.647960		0.639523	0.0013	k(abs/tk ln)
0.640814	0.0013	0.640238	0.0012	0.3723	
k(trk length)	0.634407		0.642104	0.0017	k(tk ln/col)
0.641218	0.0013	0.640798	0.0013	0.5236	
rem life(col)	6.7842E+03		6.8442E+03	0.0014	k(col/abs/tk ln)
0.640653	0.0012	0.640211	0.0012		
rem life(abs)	6.7919E+03		6.8447E+03	0.0014	life(col/abs/tl)
6.8471E+03	0.0012	6.8536E+03	0.0010		
source points generated	5123				

estimator	cycle	210	ave of	160 cycles	combination
simple average	combined average			corr	
k(collision)	0.630882		0.640272	0.0014	k(col/abs)
0.639846	0.0013	0.639666	0.0013	0.8750	
k(absorption)	0.623080		0.639420	0.0013	k(abs/tk ln)
0.640739	0.0013	0.640162	0.0012	0.3743	
k(trk length)	0.634674		0.642058	0.0017	k(tk ln/col)
0.641165	0.0013	0.640744	0.0013	0.5248	
rem life(col)	6.8008E+03		6.8440E+03	0.0014	k(col/abs/tk ln)
0.640583	0.0012	0.640140	0.0012		
rem life(abs)	6.8044E+03		6.8445E+03	0.0014	life(col/abs/tl)
6.8468E+03	0.0012	6.8533E+03	0.0010		
source points generated	4889				

estimator	cycle	211	ave of	161 cycles	combination
simple average	combined average			corr	
k(collision)	0.644457		0.640298	0.0014	k(col/abs)
0.639882	0.0013	0.639710	0.0013	0.8749	

k(absorption)	0.646874	0.639467	0.0013	k(abs/tk ln)
0.640735	0.0012	0.640184	0.0012	0.3705
k(trk length)	0.633329	0.642003	0.0017	k(tk ln/col)
0.641151	0.0013	0.640749	0.0013	0.5224
rem life(col)	6.7033E+03	6.8431E+03	0.0014	k(col/abs/tk ln)
0.640589	0.0012	0.640162	0.0012	
rem life(abs)	6.7238E+03	6.8437E+03	0.0014	life(col/abs/tl)
6.8461E+03	0.0012	6.8527E+03	0.0010	
source points generated	5079			

estimator	cycle	212	ave of	162 cycles	combination
simple average	combined average		corr		
k(collision)	0.661634	0.640430	0.0014	k(col/abs)	
0.640003	0.0013	0.639813	0.0013	0.8772	
k(absorption)	0.657108	0.639576	0.0013	k(abs/tk ln)	
0.640837	0.0012	0.640292	0.0012	0.3773	
k(trk length)	0.657403	0.642099	0.0017	k(tk ln/col)	
0.641264	0.0013	0.640879	0.0013	0.5276	
rem life(col)	6.7066E+03	6.8422E+03	0.0014	k(col/abs/tk ln)	
0.640701	0.0012	0.640261	0.0012		
rem life(abs)	6.7220E+03	6.8430E+03	0.0014	life(col/abs/tl)	
6.8453E+03	0.0012	6.8521E+03	0.0010		
source points generated	5112				

estimator	cycle	213	ave of	163 cycles	combination
simple average	combined average		corr		
k(collision)	0.636930	0.640408	0.0013	k(col/abs)	
0.640026	0.0013	0.639874	0.0013	0.8717	
k(absorption)	0.650883	0.639645	0.0013	k(abs/tk ln)	
0.640942	0.0012	0.640367	0.0012	0.3838	
k(trk length)	0.665128	0.642240	0.0017	k(tk ln/col)	
0.641324	0.0013	0.640895	0.0013	0.5198	
rem life(col)	6.8894E+03	6.8425E+03	0.0014	k(col/abs/tk ln)	
0.640764	0.0012	0.640365	0.0012		
rem life(abs)	6.8900E+03	6.8432E+03	0.0014	life(col/abs/tl)	
6.8456E+03	0.0012	6.8522E+03	0.0010		
source points generated	4876				

estimator	cycle	214	ave of	164 cycles	combination
simple average	combined average		corr		
k(collision)	0.632865	0.640362	0.0013	k(col/abs)	
0.640001	0.0013	0.639854	0.0013	0.8707	
k(absorption)	0.638913	0.639640	0.0013	k(abs/tk ln)	
0.640876	0.0012	0.640318	0.0012	0.3818	
k(trk length)	0.621300	0.642112	0.0017	k(tk ln/col)	
0.641237	0.0013	0.640817	0.0013	0.5218	
rem life(col)	7.1341E+03	6.8443E+03	0.0014	k(col/abs/tk ln)	
0.640705	0.0012	0.640315	0.0012		
rem life(abs)	7.1086E+03	6.8449E+03	0.0014	life(col/abs/tl)	
6.8471E+03	0.0012	6.8537E+03	0.0010		
source points generated	4945				

estimator	cycle	215	ave of	165 cycles	combination
simple average	combined average		corr		

k(collision)	0.633847	0.640323	0.0013	k(col/abs)
0.639960	0.0013	0.639812	0.0013	0.8710
k(absorption)	0.632380	0.639596	0.0013	k(abs/tk ln)
0.640815	0.0012	0.640261	0.0012	0.3841
k(trk length)	0.629137	0.642033	0.0017	k(tk ln/col)
0.641178	0.0013	0.640764	0.0013	0.5232
rem life(col)	6.6032E+03	6.8428E+03	0.0014	k(col/abs/tk ln)
0.640651	0.0012	0.640259	0.0012	
rem life(abs)	6.6284E+03	6.8435E+03	0.0014	life(col/abs/tl)
6.8459E+03	0.0012	6.8528E+03	0.0010	
source points generated	5019			

estimator	cycle	216	ave of	166 cycles	combination
simple average	combined	average	corr		
k(collision)	0.633151	0.640279	0.0013	k(col/abs)	
0.639917	0.0013	0.639770	0.0013	0.8714	
k(absorption)	0.632705	0.639555	0.0013	k(abs/tk ln)	
0.640765	0.0012	0.640213	0.0012	0.3858	
k(trk length)	0.632338	0.641975	0.0017	k(tk ln/col)	
0.641127	0.0013	0.640715	0.0013	0.5245	
rem life(col)	7.1234E+03	6.8445E+03	0.0014	k(col/abs/tk ln)	
0.640603	0.0012	0.640211	0.0012		
rem life(abs)	7.1063E+03	6.8451E+03	0.0014	life(col/abs/tl)	
6.8473E+03	0.0012	6.8539E+03	0.0010		
source points generated	5028				

estimator	cycle	217	ave of	167 cycles	combination
simple average	combined	average	corr		
k(collision)	0.638069	0.640266	0.0013	k(col/abs)	
0.639890	0.0012	0.639741	0.0013	0.8709	
k(absorption)	0.632569	0.639513	0.0013	k(abs/tk ln)	
0.640727	0.0012	0.640174	0.0012	0.3867	
k(trk length)	0.636339	0.641941	0.0017	k(tk ln/col)	
0.641104	0.0013	0.640696	0.0013	0.5247	
rem life(col)	6.9158E+03	6.8450E+03	0.0014	k(col/abs/tk ln)	
0.640574	0.0012	0.640174	0.0012		
rem life(abs)	6.9325E+03	6.8457E+03	0.0014	life(col/abs/tl)	
6.8478E+03	0.0012	6.8542E+03	0.0010		
source points generated	5055				

estimator	cycle	218	ave of	168 cycles	combination
simple average	combined	average	corr		
k(collision)	0.647784	0.640311	0.0013	k(col/abs)	
0.639956	0.0012	0.639828	0.0013	0.8703	
k(absorption)	0.654217	0.639601	0.0013	k(abs/tk ln)	
0.640773	0.0012	0.640250	0.0012	0.3848	
k(trk length)	0.642502	0.641945	0.0017	k(tk ln/col)	
0.641128	0.0013	0.640733	0.0013	0.5241	
rem life(col)	6.6335E+03	6.8437E+03	0.0014	k(col/abs/tk ln)	
0.640619	0.0012	0.640254	0.0012		
rem life(abs)	6.6257E+03	6.8443E+03	0.0014	life(col/abs/tl)	
6.8466E+03	0.0012	6.8537E+03	0.0010		
source points generated	5112				

estimator	cycle	219	ave of	169 cycles	combination
simple average	combined average		corr		
k(collision)	0.635819		0.640284	0.0013	k(col/abs)
0.639927	0.0012	0.639800	0.0012	0.8704	
k(absorption)	0.634488		0.639570	0.0013	k(abs/tk ln)
0.640763	0.0012	0.640233	0.0012	0.3841	
k(trk length)	0.643935		0.641956	0.0017	k(tk ln/col)
0.641120	0.0013	0.640717	0.0013	0.5234	
rem life(col)	7.0766E+03		6.8451E+03	0.0014	k(col/abs/tk ln)
0.640604	0.0012	0.640237	0.0012		
rem life(abs)	7.1150E+03		6.8459E+03	0.0014	life(col/abs/tl)
6.8479E+03	0.0012	6.8542E+03	0.0010		
source points generated 4910					

estimator	cycle	220	ave of	170 cycles	combination
simple average	combined average		corr		
k(collision)	0.643736		0.640305	0.0013	k(col/abs)
0.639948	0.0012	0.639820	0.0012	0.8705	
k(absorption)	0.643108		0.639591	0.0012	k(abs/tk ln)
0.640803	0.0012	0.640262	0.0012	0.3848	
k(trk length)	0.651733		0.642014	0.0017	k(tk ln/col)
0.641159	0.0013	0.640745	0.0013	0.5238	
rem life(col)	6.8350E+03		6.8450E+03	0.0014	k(col/abs/tk ln)
0.640637	0.0012	0.640266	0.0012		
rem life(abs)	6.8625E+03		6.8460E+03	0.0014	life(col/abs/tl)
6.8477E+03	0.0012	6.8533E+03	0.0010		
source points generated 5029					

estimator	cycle	221	ave of	171 cycles	combination
simple average	combined average		corr		
k(collision)	0.634315		0.640270	0.0013	k(col/abs)
0.639906	0.0012	0.639778	0.0012	0.8707	
k(absorption)	0.631193		0.639542	0.0012	k(abs/tk ln)
0.640726	0.0012	0.640190	0.0012	0.3883	
k(trk length)	0.624151		0.641909	0.0017	k(tk ln/col)
0.641090	0.0013	0.640685	0.0013	0.5250	
rem life(col)	7.0801E+03		6.8464E+03	0.0014	k(col/abs/tk ln)
0.640574	0.0012	0.640197	0.0012		
rem life(abs)	7.0753E+03		6.8474E+03	0.0014	life(col/abs/tl)
6.8488E+03	0.0012	6.8539E+03	0.0010		
source points generated 4897					

estimator	cycle	222	ave of	172 cycles	combination
simple average	combined average		corr		
k(collision)	0.630465		0.640213	0.0013	k(col/abs)
0.639842	0.0012	0.639716	0.0012	0.8713	
k(absorption)	0.627260		0.639471	0.0012	k(abs/tk ln)
0.640670	0.0012	0.640132	0.0012	0.3898	
k(trk length)	0.635150		0.641870	0.0016	k(tk ln/col)
0.641041	0.0013	0.640635	0.0013	0.5259	
rem life(col)	6.8011E+03		6.8461E+03	0.0014	k(col/abs/tk ln)
0.640518	0.0012	0.640141	0.0012		
rem life(abs)	6.8129E+03		6.8472E+03	0.0014	life(col/abs/tl)
6.8488E+03	0.0012	6.8545E+03	0.0010		

source points generated 5001

estimator	cycle	223	ave of	173 cycles	combination
simple average	combined average		corr		
k(collision)	0.666858		0.640367	0.0013	k(col/abs)
0.639976	0.0012	0.639820	0.0012	0.8739	
k(absorption)	0.659191		0.639585	0.0012	k(abs/tk ln)
0.640735	0.0012	0.640236	0.0012	0.3878	
k(trk length)	0.644540		0.641886	0.0016	k(tk ln/col)
0.641126	0.0013	0.640782	0.0013	0.5196	
rem life(col)	6.7930E+03		6.8458E+03	0.0014	k(col/abs/tk ln)
0.640612	0.0012	0.640233	0.0012		
rem life(abs)	6.8153E+03		6.8470E+03	0.0014	life(col/abs/tl)
6.8485E+03	0.0012	6.8540E+03	0.0010		

source points generated 5324

estimator	cycle	224	ave of	174 cycles	combination
simple average	combined average		corr		
k(collision)	0.647333		0.640407	0.0013	k(col/abs)
0.640009	0.0012	0.639848	0.0012	0.8740	
k(absorption)	0.644087		0.639611	0.0012	k(abs/tk ln)
0.640766	0.0012	0.640265	0.0012	0.3885	
k(trk length)	0.648290		0.641922	0.0016	k(tk ln/col)
0.641165	0.0013	0.640821	0.0012	0.5204	
rem life(col)	6.7697E+03		6.8454E+03	0.0014	k(col/abs/tk ln)
0.640647	0.0012	0.640260	0.0012		
rem life(abs)	6.7710E+03		6.8466E+03	0.0014	life(col/abs/tl)
6.8482E+03	0.0012	6.8540E+03	0.0010		

source points generated 4831

estimator	cycle	225	ave of	175 cycles	combination
simple average	combined average		corr		
k(collision)	0.652510		0.640476	0.0013	k(col/abs)
0.640046	0.0012	0.639864	0.0012	0.8715	
k(absorption)	0.640540		0.639616	0.0012	k(abs/tk ln)
0.640805	0.0012	0.640285	0.0012	0.3880	
k(trk length)	0.654564		0.641995	0.0016	k(tk ln/col)
0.641235	0.0013	0.640891	0.0012	0.5231	
rem life(col)	6.7982E+03		6.8451E+03	0.0014	k(col/abs/tk ln)
0.640695	0.0012	0.640277	0.0012		
rem life(abs)	6.8198E+03		6.8464E+03	0.0014	life(col/abs/tl)
6.8480E+03	0.0012	6.8538E+03	0.0010		

source points generated 5000

estimator	cycle	226	ave of	176 cycles	combination
simple average	combined average		corr		
k(collision)	0.650620		0.640533	0.0013	k(col/abs)
0.640084	0.0012	0.639888	0.0012	0.8709	
k(absorption)	0.642992		0.639635	0.0012	k(abs/tk ln)
0.640773	0.0012	0.640274	0.0012	0.3847	
k(trk length)	0.627421		0.641912	0.0016	k(tk ln/col)
0.641223	0.0013	0.640914	0.0012	0.5146	
rem life(col)	6.7835E+03		6.8448E+03	0.0014	k(col/abs/tk ln)
0.640693	0.0012	0.640266	0.0012		

rem life(abs)	6.8201E+03	6.8463E+03	0.0014	life(col/abs/tl)
6.8479E+03	0.0012	6.8540E+03	0.0010	
source points generated	4953			

estimator	cycle	227	ave of	177 cycles	combination
simple average	combined average		corr		
k(collision)	0.648381		0.640578	0.0013	k(col/abs)
0.640113	0.0012	0.639906	0.0012	0.8704	
k(absorption)	0.641916		0.639648	0.0012	k(abs/tk ln)
0.640831	0.0012	0.640304	0.0011	0.3844	
k(trk length)	0.660118		0.642015	0.0016	k(tk ln/col)
0.641296	0.0013	0.640969	0.0012	0.5167	
rem life(col)	6.8374E+03	6.8447E+03	0.0014	k(col/abs/tk ln)	
0.640747	0.0012	0.640294	0.0012		
rem life(abs)	6.8815E+03	6.8465E+03	0.0013	life(col/abs/tl)	
6.8479E+03	0.0012	6.8538E+03	0.0010		
source points generated	4977				

estimator	cycle	228	ave of	178 cycles	combination
simple average	combined average		corr		
k(collision)	0.624343		0.640487	0.0013	k(col/abs)
0.640038	0.0012	0.639827	0.0012	0.8709	
k(absorption)	0.629307		0.639590	0.0012	k(abs/tk ln)
0.640721	0.0012	0.640198	0.0011	0.3903	
k(trk length)	0.613109		0.641852	0.0016	k(tk ln/col)
0.641169	0.0013	0.640846	0.0012	0.5244	
rem life(col)	6.7902E+03	6.8444E+03	0.0014	k(col/abs/tk ln)	
0.640643	0.0012	0.640183	0.0012		
rem life(abs)	6.7609E+03	6.8460E+03	0.0013	life(col/abs/tl)	
6.8476E+03	0.0012	6.8538E+03	0.0010		
source points generated	4800				

estimator	cycle	229	ave of	179 cycles	combination
simple average	combined average		corr		
k(collision)	0.654862		0.640567	0.0013	k(col/abs)
0.640113	0.0012	0.639895	0.0012	0.8720	
k(absorption)	0.651969		0.639659	0.0012	k(abs/tk ln)
0.640755	0.0012	0.640256	0.0011	0.3887	
k(trk length)	0.641780		0.641852	0.0016	k(tk ln/col)
0.641209	0.0013	0.640912	0.0012	0.5219	
rem life(col)	6.7355E+03	6.8438E+03	0.0013	k(col/abs/tk ln)	
0.640693	0.0012	0.640235	0.0012		
rem life(abs)	6.7430E+03	6.8454E+03	0.0013	life(col/abs/tl)	
6.8470E+03	0.0012	6.8529E+03	0.0010		
source points generated	5207				

estimator	cycle	230	ave of	180 cycles	combination
simple average	combined average		corr		
k(collision)	0.628622		0.640501	0.0013	k(col/abs)
0.640054	0.0012	0.639835	0.0012	0.8726	
k(absorption)	0.630410		0.639608	0.0012	k(abs/tk ln)
0.640666	0.0012	0.640173	0.0011	0.3931	
k(trk length)	0.618993		0.641725	0.0016	k(tk ln/col)
0.641113	0.0013	0.640822	0.0012	0.5262	

rem life(col)	6.9305E+03	6.8443E+03	0.0013	k(col/abs/tk ln)
0.640611 0.0012	0.640152	0.0012		
rem life(abs)	6.9330E+03	6.8459E+03	0.0013	life(col/abs/tl)
6.8474E+03 0.0012	6.8532E+03	0.0010		
source points generated	4784			

estimator	cycle	231	ave of	181 cycles	combination
simple average	combined average		corr		
k(collision)	0.653293		0.640571	0.0013	k(col/abs)
0.640143 0.0012	0.639951	0.0012	0.8729		
k(absorption)	0.658892		0.639714	0.0012	k(abs/tk ln)
0.640728 0.0012	0.640270	0.0011	0.3916		
k(trk length)	0.644818		0.641742	0.0016	k(tk ln/col)
0.641157 0.0013	0.640883	0.0012	0.5255		
rem life(col)	6.7881E+03	6.8440E+03	0.0013	k(col/abs/tk ln)	
0.640676 0.0012	0.640256	0.0012			
rem life(abs)	6.7578E+03	6.8454E+03	0.0013	life(col/abs/tl)	
6.8470E+03 0.0012	6.8528E+03	0.0010			
source points generated	5164				

estimator	cycle	232	ave of	182 cycles	combination
simple average	combined average		corr		
k(collision)	0.664507		0.640703	0.0013	k(col/abs)
0.640254 0.0012	0.640029	0.0012	0.8745		
k(absorption)	0.656142		0.639804	0.0012	k(abs/tk ln)
0.640826 0.0012	0.640361	0.0011	0.3988		
k(trk length)	0.661014		0.641848	0.0016	k(tk ln/col)
0.641275 0.0013	0.641012	0.0012	0.5324		
rem life(col)	6.9012E+03	6.8443E+03	0.0013	k(col/abs/tk ln)	
0.640785 0.0012	0.640332	0.0012			
rem life(abs)	6.9066E+03	6.8457E+03	0.0013	life(col/abs/tl)	
6.8472E+03 0.0012	6.8525E+03	0.0010			
source points generated	5058				

estimator	cycle	233	ave of	183 cycles	combination
simple average	combined average		corr		
k(collision)	0.647662		0.640741	0.0013	k(col/abs)
0.640337 0.0012	0.640182	0.0012	0.8691		
k(absorption)	0.663535		0.639934	0.0012	k(abs/tk ln)
0.640958 0.0012	0.640491	0.0012	0.4114		
k(trk length)	0.666456		0.641982	0.0016	k(tk ln/col)
0.641362 0.0013	0.641067	0.0012	0.5333		
rem life(col)	6.7100E+03	6.8436E+03	0.0013	k(col/abs/tk ln)	
0.640886 0.0012	0.640508	0.0012			
rem life(abs)	6.6936E+03	6.8449E+03	0.0013	life(col/abs/tl)	
6.8463E+03 0.0012	6.8513E+03	0.0010			
source points generated	4868				

estimator	cycle	234	ave of	184 cycles	combination
simple average	combined average		corr		
k(collision)	0.639699		0.640735	0.0013	k(col/abs)
0.640345 0.0012	0.640196	0.0012	0.8686		
k(absorption)	0.643724		0.639955	0.0012	k(abs/tk ln)
0.641027 0.0012	0.640528	0.0012	0.4117		

k(trk length)	0.663590	0.642100	0.0016	k(tk ln/col)
0.641417	0.0013	0.641088	0.0012	0.5291
rem life(col)	6.8025E+03	6.8433E+03	0.0013	k(col/abs/tk ln)
0.640930	0.0012	0.640550	0.0012	
rem life(abs)	6.7927E+03	6.8446E+03	0.0013	life(col/abs/tl)
6.8461E+03	0.0012	6.8513E+03	0.0010	
source points generated	5005			

estimator	cycle	235	ave of	185 cycles	combination
simple average	combined average		corr		
k(collision)	0.617985		0.640612	0.0013	k(col/abs)
0.640221	0.0012	0.640073	0.0012	0.8717	
k(absorption)	0.616923		0.639830	0.0012	k(abs/tk ln)
0.640879	0.0012	0.640378	0.0012	0.4269	
k(trk length)	0.610465		0.641929	0.0016	k(tk ln/col)
0.641270	0.0013	0.640943	0.0012	0.5406	
rem life(col)	6.8514E+03		6.8434E+03	0.0013	k(col/abs/tk ln)
0.640790	0.0012	0.640404	0.0012		
rem life(abs)	6.8538E+03		6.8447E+03	0.0013	life(col/abs/tl)
6.8462E+03	0.0011	6.8516E+03	0.0010		
source points generated	4844				

estimator	cycle	236	ave of	186 cycles	combination
simple average	combined average		corr		
k(collision)	0.628002		0.640544	0.0013	k(col/abs)
0.640158	0.0012	0.640009	0.0012	0.8724	
k(absorption)	0.629010		0.639772	0.0012	k(abs/tk ln)
0.640838	0.0012	0.640332	0.0012	0.4274	
k(trk length)	0.637205		0.641903	0.0016	k(tk ln/col)
0.641224	0.0013	0.640890	0.0012	0.5406	
rem life(col)	7.0479E+03		6.8445E+03	0.0013	k(col/abs/tk ln)
0.640740	0.0012	0.640355	0.0012		
rem life(abs)	7.0282E+03		6.8457E+03	0.0013	life(col/abs/tl)
6.8471E+03	0.0011	6.8522E+03	0.0010		
source points generated	5086				

estimator	cycle	237	ave of	187 cycles	combination
simple average	combined average		corr		
k(collision)	0.641458		0.640549	0.0013	k(col/abs)
0.640197	0.0012	0.640077	0.0012	0.8691	
k(absorption)	0.653493		0.639845	0.0012	k(abs/tk ln)
0.640882	0.0012	0.640397	0.0012	0.4268	
k(trk length)	0.644699		0.641918	0.0016	k(tk ln/col)
0.641234	0.0013	0.640897	0.0012	0.5406	
rem life(col)	6.7390E+03		6.8439E+03	0.0013	k(col/abs/tk ln)
0.640771	0.0012	0.640424	0.0012		
rem life(abs)	6.7094E+03		6.8449E+03	0.0013	life(col/abs/tl)
6.8466E+03	0.0011	6.8522E+03	0.0009		
source points generated	5103				

estimator	cycle	238	ave of	188 cycles	combination
simple average	combined average		corr		
k(collision)	0.644044		0.640568	0.0013	k(col/abs)
0.640219	0.0012	0.640099	0.0012	0.8692	

k(absorption)	0.644332	0.639869	0.0012	k(abs/tk ln)
0.640886	0.0012	0.640411	0.0012	0.4261
k(trk length)	0.638832	0.641902	0.0016	k(tk ln/col)
0.641235	0.0013	0.640907	0.0012	0.5400
rem life(col)	6.8332E+03	6.8439E+03	0.0013	k(col/abs/tk ln)
0.640780	0.0012	0.640439	0.0012	
rem life(abs)	6.8361E+03	6.8449E+03	0.0013	life(col/abs/tl)
6.8465E+03	0.0011	6.8520E+03	0.0009	
source points generated	5030			

estimator	cycle	239	ave of	189 cycles	combination
simple average	combined average		corr		
k(collision)	0.658544	0.640663	0.0013	k(col/abs)	
0.640321	0.0012	0.640212	0.0012	0.8711	
k(absorption)	0.660788	0.639980	0.0012	k(abs/tk ln)	
0.640963	0.0012	0.640517	0.0012	0.4274	
k(trk length)	0.650058	0.641945	0.0016	k(tk ln/col)	
0.641304	0.0013	0.640996	0.0012	0.5408	
rem life(col)	6.8343E+03	6.8438E+03	0.0013	k(col/abs/tk ln)	
0.640863	0.0012	0.640544	0.0012		
rem life(abs)	6.8240E+03	6.8448E+03	0.0013	life(col/abs/tl)	
6.8465E+03	0.0011	6.8522E+03	0.0009		
source points generated	5075				

estimator	cycle	240	ave of	190 cycles	combination
simple average	combined average		corr		
k(collision)	0.643855	0.640680	0.0013	k(col/abs)	
0.640351	0.0012	0.640248	0.0012	0.8708	
k(absorption)	0.647884	0.640022	0.0012	k(abs/tk ln)	
0.640947	0.0012	0.640529	0.0012	0.4218	
k(trk length)	0.628023	0.641872	0.0016	k(tk ln/col)	
0.641276	0.0013	0.640988	0.0012	0.5378	
rem life(col)	6.5815E+03	6.8424E+03	0.0013	k(col/abs/tk ln)	
0.640858	0.0012	0.640556	0.0012		
rem life(abs)	6.5452E+03	6.8432E+03	0.0013	life(col/abs/tl)	
6.8452E+03	0.0011	6.8514E+03	0.0009		
source points generated	4911				

estimator	cycle	241	ave of	191 cycles	combination
simple average	combined average		corr		
k(collision)	0.646670	0.640711	0.0013	k(col/abs)	
0.640380	0.0012	0.640277	0.0012	0.8709	
k(absorption)	0.645397	0.640050	0.0012	k(abs/tk ln)	
0.641002	0.0012	0.640568	0.0011	0.4231	
k(trk length)	0.657815	0.641955	0.0016	k(tk ln/col)	
0.641333	0.0013	0.641030	0.0012	0.5387	
rem life(col)	6.6198E+03	6.8413E+03	0.0013	k(col/abs/tk ln)	
0.640905	0.0012	0.640595	0.0012		
rem life(abs)	6.6326E+03	6.8421E+03	0.0013	life(col/abs/tl)	
6.8442E+03	0.0011	6.8508E+03	0.0009		
source points generated	5035				

estimator	cycle	242	ave of	192 cycles	combination
simple average	combined average		corr		

k(collision)	0.628167	0.640646	0.0013	k(col/abs)
0.640343	0.0012	0.640243	0.0012	0.8689
k(absorption)	0.638359	0.640041	0.0012	k(abs/tk ln)
0.640935	0.0012	0.640519	0.0011	0.4213
k(trk length)	0.617823	0.641830	0.0016	k(tk ln/col)
0.641238	0.0013	0.640942	0.0012	0.5429
rem life(col)	6.6716E+03	6.8404E+03	0.0013	k(col/abs/tk ln)
0.640839	0.0012	0.640539	0.0011	
rem life(abs)	6.6635E+03	6.8412E+03	0.0013	life(col/abs/tl)
6.8435E+03	0.0011	6.8508E+03	0.0009	
source points generated	4909			

estimator	cycle	243	ave of	193 cycles	combination
simple average	combined average		corr		
k(collision)	0.619350	0.640535	0.0013	k(col/abs)	
0.640246	0.0012	0.640141	0.0012	0.8706	
k(absorption)	0.623607	0.639956	0.0012	k(abs/tk ln)	
0.640767	0.0012	0.640354	0.0012	0.4330	
k(trk length)	0.593323	0.641578	0.0016	k(tk ln/col)	
0.641057	0.0013	0.640770	0.0012	0.5548	
rem life(col)	6.9435E+03	6.8409E+03	0.0013	k(col/abs/tk ln)	
0.640690	0.0012	0.640376	0.0012		
rem life(abs)	6.9312E+03	6.8416E+03	0.0013	life(col/abs/tl)	
6.8441E+03	0.0011	6.8514E+03	0.0009		
source points generated	4937				

estimator	cycle	244	ave of	194 cycles	combination
simple average	combined average		corr		
k(collision)	0.657098	0.640621	0.0013	k(col/abs)	
0.640325	0.0012	0.640215	0.0012	0.8719	
k(absorption)	0.654225	0.640029	0.0012	k(abs/tk ln)	
0.640835	0.0012	0.640426	0.0012	0.4360	
k(trk length)	0.653800	0.641641	0.0016	k(tk ln/col)	
0.641131	0.0013	0.640852	0.0012	0.5571	
rem life(col)	6.7388E+03	6.8404E+03	0.0013	k(col/abs/tk ln)	
0.640764	0.0012	0.640447	0.0012		
rem life(abs)	6.7459E+03	6.8411E+03	0.0013	life(col/abs/tl)	
6.8436E+03	0.0011	6.8511E+03	0.0009		
source points generated	5305				

estimator	cycle	245	ave of	195 cycles	combination
simple average	combined average		corr		
k(collision)	0.651529	0.640677	0.0013	k(col/abs)	
0.640375	0.0012	0.640261	0.0012	0.8723	
k(absorption)	0.648678	0.640074	0.0012	k(abs/tk ln)	
0.640882	0.0012	0.640471	0.0011	0.4375	
k(trk length)	0.651289	0.641691	0.0016	k(tk ln/col)	
0.641184	0.0013	0.640907	0.0012	0.5584	
rem life(col)	6.9188E+03	6.8408E+03	0.0013	k(col/abs/tk ln)	
0.640814	0.0012	0.640491	0.0012		
rem life(abs)	6.9432E+03	6.8417E+03	0.0013	life(col/abs/tl)	
6.8440E+03	0.0011	6.8512E+03	0.0009		
source points generated	4942				

estimator	cycle	246	ave of	196 cycles	combination
simple average	combined average		corr		
k(collision)	0.616748		0.640555	0.0013	k(col/abs)
0.640280	0.0012	0.640161	0.0012	0.8723	
k(absorption)	0.626845		0.640006	0.0012	k(abs/tk ln)
0.640854	0.0012	0.640430	0.0011	0.4349	
k(trk length)	0.643711		0.641701	0.0016	k(tk ln/col)
0.641128	0.0013	0.640833	0.0012	0.5505	
rem life(col)	6.9536E+03		6.8414E+03	0.0013	k(col/abs/tk ln)
0.640754	0.0012	0.640439	0.0012		
rem life(abs)	6.9437E+03		6.8422E+03	0.0013	life(col/abs/tl)
6.8445E+03	0.0011	6.8516E+03	0.0009		
source points generated		4703			

estimator	cycle	247	ave of	197 cycles	combination
simple average	combined average		corr		
k(collision)	0.655437		0.640630	0.0013	k(col/abs)
0.640340	0.0012	0.640207	0.0012	0.8724	
k(absorption)	0.648639		0.640050	0.0012	k(abs/tk ln)
0.640909	0.0012	0.640477	0.0011	0.4370	
k(trk length)	0.654998		0.641769	0.0016	k(tk ln/col)
0.641199	0.0013	0.640907	0.0012	0.5530	
rem life(col)	6.5941E+03		6.8401E+03	0.0013	k(col/abs/tk ln)
0.640816	0.0012	0.640484	0.0011		
rem life(abs)	6.6154E+03		6.8410E+03	0.0013	life(col/abs/tl)
6.8435E+03	0.0011	6.8515E+03	0.0009		
source points generated		5370			

estimator	cycle	248	ave of	198 cycles	combination
simple average	combined average		corr		
k(collision)	0.646346		0.640659	0.0013	k(col/abs)
0.640381	0.0012	0.640257	0.0012	0.8722	
k(absorption)	0.650490		0.640103	0.0012	k(abs/tk ln)
0.640929	0.0012	0.640517	0.0011	0.4350	
k(trk length)	0.638976		0.641754	0.0016	k(tk ln/col)
0.641207	0.0013	0.640927	0.0012	0.5522	
rem life(col)	6.6229E+03		6.8390E+03	0.0013	k(col/abs/tk ln)
0.640839	0.0012	0.640525	0.0011		
rem life(abs)	6.6016E+03		6.8398E+03	0.0013	life(col/abs/tl)
6.8425E+03	0.0011	6.8509E+03	0.0009		
source points generated		4896			

estimator	cycle	249	ave of	199 cycles	combination
simple average	combined average		corr		
k(collision)	0.614670		0.640528	0.0013	k(col/abs)
0.640300	0.0012	0.640183	0.0012	0.8667	
k(absorption)	0.634077		0.640072	0.0012	k(abs/tk ln)
0.640874	0.0012	0.640472	0.0011	0.4364	
k(trk length)	0.626257		0.641677	0.0016	k(tk ln/col)
0.641103	0.0013	0.640818	0.0012	0.5556	
rem life(col)	6.9001E+03		6.8393E+03	0.0013	k(col/abs/tk ln)
0.640759	0.0012	0.640472	0.0011		
rem life(abs)	6.8528E+03		6.8399E+03	0.0013	life(col/abs/tl)
6.8429E+03	0.0011	6.8516E+03	0.0009		

source points generated 4730

estimator	cycle	250	ave of	200 cycles	combination
simple average		combined average		corr	
k(collision)		0.646043		0.640556 0.0013	k(col/abs)
0.640331 0.0012		0.640217 0.0012		0.8668	
k(absorption)		0.646909		0.640107 0.0012	k(abs/tk ln)
0.640916 0.0012		0.640509 0.0011		0.4376	
k(trk length)		0.651332		0.641725 0.0016	k(tk ln/col)
0.641140 0.0013		0.640850 0.0012		0.5563	
rem life(col)		6.7949E+03		6.8391E+03 0.0013	k(col/abs/tk ln)
0.640796 0.0012		0.640509 0.0011			
rem life(abs)		6.7867E+03		6.8396E+03 0.0013	life(col/abs/tl)
6.8425E+03 0.0011		6.8509E+03 0.0009			

source points generated 5281

estimator	cycle	251	ave of	201 cycles	combination
simple average		combined average		corr	
k(collision)		0.657853		0.640642 0.0013	k(col/abs)
0.640425 0.0012		0.640318 0.0012		0.8684	
k(absorption)		0.660487		0.640208 0.0012	k(abs/tk ln)
0.641001 0.0012		0.640607 0.0011		0.4417	
k(trk length)		0.655513		0.641793 0.0016	k(tk ln/col)
0.641218 0.0013		0.640933 0.0012		0.5590	
rem life(col)		7.0741E+03		6.8403E+03 0.0013	k(col/abs/tk ln)
0.640881 0.0012		0.640608 0.0011			
rem life(abs)		7.0770E+03		6.8408E+03 0.0013	life(col/abs/tl)
6.8435E+03 0.0011		6.8513E+03 0.0009			

source points generated 5080

estimator	cycle	252	ave of	202 cycles	combination
simple average		combined average		corr	
k(collision)		0.637611		0.640627 0.0013	k(col/abs)
0.640422 0.0012		0.640322 0.0012		0.8679	
k(absorption)		0.642114		0.640217 0.0012	k(abs/tk ln)
0.640997 0.0012		0.640610 0.0011		0.4414	
k(trk length)		0.638578		0.641778 0.0016	k(tk ln/col)
0.641202 0.0013		0.640918 0.0012		0.5591	
rem life(col)		6.8582E+03		6.8404E+03 0.0013	k(col/abs/tk ln)
0.640874 0.0012		0.640611 0.0011			
rem life(abs)		6.8698E+03		6.8409E+03 0.0013	life(col/abs/tl)
6.8435E+03 0.0011		6.8513E+03 0.0009			

source points generated 4862

estimator	cycle	253	ave of	203 cycles	combination
simple average		combined average		corr	
k(collision)		0.623022		0.640540 0.0013	k(col/abs)
0.640346 0.0012		0.640248 0.0012		0.8689	
k(absorption)		0.627071		0.640153 0.0012	k(abs/tk ln)
0.640941 0.0012		0.640551 0.0011		0.4433	
k(trk length)		0.632044		0.641730 0.0016	k(tk ln/col)
0.641135 0.0013		0.640846 0.0012		0.5604	
rem life(col)		7.0955E+03		6.8416E+03 0.0013	k(col/abs/tk ln)
0.640808 0.0012		0.640551 0.0011			

rem life(abs)	7.0634E+03	6.8420E+03	0.0013	life(col/abs/tl)
6.8447E+03	0.0011	6.8524E+03	0.0009	
source points generated	4845			

estimator	cycle	254	ave of	204 cycles	combination
simple average	combined average		corr		
k(collision)	0.622796		0.640453	0.0013	k(col/abs)
0.640258	0.0012	0.640159	0.0012	0.8705	
k(absorption)	0.621714		0.640062	0.0012	k(abs/tk ln)
0.640832	0.0012	0.640446	0.0011	0.4517	
k(trk length)	0.615808		0.641603	0.0016	k(tk ln/col)
0.641028	0.0013	0.640743	0.0012	0.5662	
rem life(col)	6.8133E+03		6.8415E+03	0.0013	k(col/abs/tk ln)
0.640706	0.0012	0.640446	0.0011		
rem life(abs)	6.8090E+03		6.8419E+03	0.0013	life(col/abs/tl)
6.8445E+03	0.0011	6.8522E+03	0.0009		
source points generated	5021				

estimator	cycle	255	ave of	205 cycles	combination
simple average	combined average		corr		
k(collision)	0.620076		0.640354	0.0013	k(col/abs)
0.640157	0.0012	0.640058	0.0012	0.8726	
k(absorption)	0.619090		0.639960	0.0012	k(abs/tk ln)
0.640781	0.0012	0.640383	0.0011	0.4477	
k(trk length)	0.641359		0.641601	0.0016	k(tk ln/col)
0.640978	0.0013	0.640680	0.0012	0.5621	
rem life(col)	6.9988E+03		6.8422E+03	0.0013	k(col/abs/tk ln)
0.640638	0.0012	0.640382	0.0011		
rem life(abs)	7.0029E+03		6.8427E+03	0.0013	life(col/abs/tl)
6.8453E+03	0.0011	6.8531E+03	0.0009		
source points generated	5035				

estimator	cycle	256	ave of	206 cycles	combination
simple average	combined average		corr		
k(collision)	0.635544		0.640331	0.0013	k(col/abs)
0.640130	0.0012	0.640029	0.0012	0.8727	
k(absorption)	0.633588		0.639929	0.0012	k(abs/tk ln)
0.640780	0.0012	0.640369	0.0011	0.4459	
k(trk length)	0.647842		0.641632	0.0016	k(tk ln/col)
0.640981	0.0013	0.640672	0.0012	0.5607	
rem life(col)	6.9662E+03		6.8428E+03	0.0013	k(col/abs/tk ln)
0.640630	0.0011	0.640369	0.0011		
rem life(abs)	6.9905E+03		6.8434E+03	0.0013	life(col/abs/tl)
6.8459E+03	0.0011	6.8535E+03	0.0009		
source points generated	5106				

estimator	cycle	257	ave of	207 cycles	combination
simple average	combined average		corr		
k(collision)	0.631869		0.640290	0.0013	k(col/abs)
0.640108	0.0012	0.640016	0.0012	0.8718	
k(absorption)	0.639273		0.639926	0.0012	k(abs/tk ln)
0.640731	0.0012	0.640338	0.0011	0.4443	
k(trk length)	0.622032		0.641537	0.0016	k(tk ln/col)
0.640913	0.0012	0.640612	0.0012	0.5623	

rem life(col)	6.8600E+03	6.8429E+03	0.0013	k(col/abs/tk ln)
0.640584	0.0011	0.640337	0.0011	
rem life(abs)	6.8358E+03	6.8433E+03	0.0013	life(col/abs/tl)
6.8460E+03	0.0011	6.8538E+03	0.0009	
source points generated	4981			

estimator	cycle	258	ave of	208 cycles	combination
simple average		combined average		corr	
k(collision)	0.651656		0.640344	0.0013	k(col/abs)
0.640133	0.0012	0.640025	0.0012	0.8695	
k(absorption)	0.639229		0.639922	0.0012	k(abs/tk ln)
0.640806	0.0012	0.640364	0.0011	0.4385	
k(trk length)	0.673346		0.641690	0.0016	k(tk ln/col)
0.641017	0.0013	0.640678	0.0012	0.5648	
rem life(col)	6.8327E+03		6.8429E+03	0.0013	k(col/abs/tk ln)
0.640652	0.0011	0.640362	0.0011		
rem life(abs)	6.8437E+03		6.8433E+03	0.0013	life(col/abs/tl)
6.8460E+03	0.0011	6.8540E+03	0.0009		
source points generated	5173				

estimator	cycle	259	ave of	209 cycles	combination
simple average		combined average		corr	
k(collision)	0.640542		0.640345	0.0012	k(col/abs)
0.640144	0.0012	0.640041	0.0012	0.8692	
k(absorption)	0.644198		0.639943	0.0012	k(abs/tk ln)
0.640793	0.0012	0.640368	0.0011	0.4366	
k(trk length)	0.632036		0.641644	0.0016	k(tk ln/col)
0.640995	0.0012	0.640666	0.0012	0.5642	
rem life(col)	6.5294E+03		6.8414E+03	0.0013	k(col/abs/tk ln)
0.640644	0.0011	0.640366	0.0011		
rem life(abs)	6.5344E+03		6.8419E+03	0.0013	life(col/abs/tl)
6.8448E+03	0.0011	6.8534E+03	0.0009		
source points generated	4932				

estimator	cycle	260	ave of	210 cycles	combination
simple average		combined average		corr	
k(collision)	0.632507		0.640308	0.0012	k(col/abs)
0.640107	0.0012	0.640004	0.0012	0.8695	
k(absorption)	0.632023		0.639905	0.0012	k(abs/tk ln)
0.640762	0.0012	0.640334	0.0011	0.4372	
k(trk length)	0.636388		0.641619	0.0016	k(tk ln/col)
0.640963	0.0012	0.640632	0.0012	0.5646	
rem life(col)	7.1309E+03		6.8428E+03	0.0013	k(col/abs/tk ln)
0.640611	0.0011	0.640332	0.0011		
rem life(abs)	7.1206E+03		6.8432E+03	0.0013	life(col/abs/tl)
6.8457E+03	0.0011	6.8534E+03	0.0009		
source points generated	4925				

estimator	cycle	261	ave of	211 cycles	combination
simple average		combined average		corr	
k(collision)	0.630724		0.640263	0.0012	k(col/abs)
0.640081	0.0012	0.639988	0.0012	0.8684	
k(absorption)	0.638832		0.639900	0.0012	k(abs/tk ln)
0.640753	0.0012	0.640327	0.0011	0.4372	

k(trk length)	0.639045	0.641606	0.0016	k(tk ln/col)
0.640935	0.0012	0.640598	0.0012	0.5643
rem life(col)	6.7515E+03	6.8423E+03	0.0013	k(col/abs/tk ln)
0.640590	0.0011	0.640326	0.0011	
rem life(abs)	6.7403E+03	6.8427E+03	0.0013	life(col/abs/tl)
6.8453E+03	0.0011	6.8532E+03	0.0009	
source points generated	5003			

estimator	cycle	262	ave of	212 cycles	combination
simple average	combined average		corr		
k(collision)	0.645591	0.640288	0.0012	k(col/abs)	
0.640121	0.0012	0.640037	0.0011	0.8680	
k(absorption)	0.651323	0.639954	0.0012	k(abs/tk ln)	
0.640806	0.0012	0.640381	0.0011	0.4393	
k(trk length)	0.652555	0.641658	0.0015	k(tk ln/col)	
0.640973	0.0012	0.640628	0.0012	0.5649	
rem life(col)	6.9524E+03	6.8428E+03	0.0013	k(col/abs/tk ln)	
0.640633	0.0011	0.640380	0.0011		
rem life(abs)	6.9397E+03	6.8432E+03	0.0013	life(col/abs/tl)	
6.8457E+03	0.0011	6.8532E+03	0.0009		
source points generated	5131				

estimator	cycle	263	ave of	213 cycles	combination
simple average	combined average		corr		
k(collision)	0.653754	0.640351	0.0012	k(col/abs)	
0.640180	0.0012	0.640093	0.0011	0.8687	
k(absorption)	0.651648	0.640009	0.0012	k(abs/tk ln)	
0.640853	0.0011	0.640433	0.0011	0.4407	
k(trk length)	0.650042	0.641697	0.0015	k(tk ln/col)	
0.641024	0.0012	0.640688	0.0012	0.5658	
rem life(col)	6.8284E+03	6.8428E+03	0.0013	k(col/abs/tk ln)	
0.640686	0.0011	0.640433	0.0011		
rem life(abs)	6.8535E+03	6.8432E+03	0.0013	life(col/abs/tl)	
6.8458E+03	0.0011	6.8534E+03	0.0009		
source points generated	5094				

estimator	cycle	264	ave of	214 cycles	combination
simple average	combined average		corr		
k(collision)	0.643569	0.640366	0.0012	k(col/abs)	
0.640181	0.0011	0.640087	0.0011	0.8681	
k(absorption)	0.637071	0.639995	0.0011	k(abs/tk ln)	
0.640808	0.0011	0.640400	0.0011	0.4407	
k(trk length)	0.625117	0.641620	0.0015	k(tk ln/col)	
0.640993	0.0012	0.640678	0.0012	0.5625	
rem life(col)	6.9758E+03	6.8434E+03	0.0013	k(col/abs/tk ln)	
0.640660	0.0011	0.640400	0.0011		
rem life(abs)	6.9917E+03	6.8439E+03	0.0013	life(col/abs/tl)	
6.8462E+03	0.0011	6.8531E+03	0.0009		
source points generated	4931				

estimator	cycle	265	ave of	215 cycles	combination
simple average	combined average		corr		
k(collision)	0.628103	0.640309	0.0012	k(col/abs)	
0.640154	0.0011	0.640074	0.0011	0.8654	

k(absorption)	0.640784	0.639999	0.0011	k(abs/tk ln)
0.640767	0.0011	0.640379	0.0011	0.4387
k(trk length)	0.623570	0.641536	0.0015	k(tk ln/col)
0.640922	0.0012	0.640611	0.0012	0.5651
rem life(col)	6.8404E+03	6.8434E+03	0.0013	k(col/abs/tk ln)
0.640615	0.0011	0.640379	0.0011	
rem life(abs)	6.8176E+03	6.8438E+03	0.0013	life(col/abs/tl)
6.8461E+03	0.0011	6.8528E+03	0.0009	
source points generated	4884			

estimator	cycle	266	ave of	216 cycles	combination
simple average	combined average		corr		
k(collision)	0.641399	0.640314	0.0012	k(col/abs)	
0.640171	0.0011	0.640099	0.0011	0.8649	
k(absorption)	0.646482	0.640029	0.0011	k(abs/tk ln)	
0.640789	0.0011	0.640406	0.0011	0.4388	
k(trk length)	0.644350	0.641549	0.0015	k(tk ln/col)	
0.640932	0.0012	0.640618	0.0012	0.5652	
rem life(col)	6.8354E+03	6.8434E+03	0.0013	k(col/abs/tk ln)	
0.640631	0.0011	0.640406	0.0011		
rem life(abs)	6.8331E+03	6.8437E+03	0.0013	life(col/abs/tl)	
6.8459E+03	0.0011	6.8524E+03	0.0009		
source points generated	5135				

estimator	cycle	267	ave of	217 cycles	combination
simple average	combined average		corr		
k(collision)	0.653091	0.640373	0.0012	k(col/abs)	
0.640230	0.0011	0.640158	0.0011	0.8657	
k(absorption)	0.652826	0.640088	0.0011	k(abs/tk ln)	
0.640847	0.0011	0.640464	0.0011	0.4414	
k(trk length)	0.654050	0.641607	0.0015	k(tk ln/col)	
0.640990	0.0012	0.640677	0.0012	0.5670	
rem life(col)	6.7900E+03	6.8431E+03	0.0013	k(col/abs/tk ln)	
0.640689	0.0011	0.640464	0.0011		
rem life(abs)	6.7753E+03	6.8434E+03	0.0013	life(col/abs/tl)	
6.8457E+03	0.0011	6.8523E+03	0.0009		
source points generated	5088				

estimator	cycle	268	ave of	218 cycles	combination
simple average	combined average		corr		
k(collision)	0.629745	0.640324	0.0012	k(col/abs)	
0.640194	0.0011	0.640127	0.0011	0.8656	
k(absorption)	0.634977	0.640064	0.0011	k(abs/tk ln)	
0.640819	0.0011	0.640438	0.0011	0.4420	
k(trk length)	0.634433	0.641574	0.0015	k(tk ln/col)	
0.640949	0.0012	0.640634	0.0012	0.5677	
rem life(col)	7.0828E+03	6.8442E+03	0.0013	k(col/abs/tk ln)	
0.640654	0.0011	0.640438	0.0011		
rem life(abs)	7.0934E+03	6.8446E+03	0.0013	life(col/abs/tl)	
6.8466E+03	0.0011	6.8525E+03	0.0009		
source points generated	4836				

estimator	cycle	269	ave of	219 cycles	combination
simple average	combined average		corr		

k(collision)	0.651150	0.640374	0.0012	k(col/abs)
0.640245	0.0011	0.640179	0.0011	0.8662
k(absorption)	0.651362	0.640116	0.0011	k(abs/tk ln)
0.640865	0.0011	0.640488	0.0011	0.4435
k(trk length)	0.650512	0.641615	0.0015	k(tk ln/col)
0.640994	0.0012	0.640682	0.0012	0.5687
rem life(col)	6.8690E+03	6.8443E+03	0.0013	k(col/abs/tk ln)
0.640701	0.0011	0.640488	0.0011	
rem life(abs)	6.8787E+03	6.8447E+03	0.0013	life(col/abs/tl)
6.8466E+03	0.0011	6.8524E+03	0.0009	
source points generated	5194			

estimator	cycle	270	ave of	220 cycles	combination
simple average	combined average		corr		
k(collision)	0.649847		0.640417	0.0012	k(col/abs)
0.640293	0.0011	0.640230	0.0011	0.8666	
k(absorption)	0.651771		0.640169	0.0011	k(abs/tk ln)
0.640898	0.0011	0.640534	0.0011	0.4431	
k(trk length)	0.644289		0.641627	0.0015	k(tk ln/col)
0.641022	0.0012	0.640719	0.0012	0.5685	
rem life(col)	6.6423E+03		6.8434E+03	0.0013	k(col/abs/tk ln)
0.640737	0.0011	0.640534	0.0011		
rem life(abs)	6.6353E+03		6.8438E+03	0.0013	life(col/abs/tl)
6.8459E+03	0.0011	6.8521E+03	0.0009		
source points generated	5000				

estimator	cycle	271	ave of	221 cycles	combination
simple average	combined average		corr		
k(collision)	0.623292		0.640339	0.0012	k(col/abs)
0.640224	0.0011	0.640164	0.0011	0.8676	
k(absorption)	0.626887		0.640109	0.0011	k(abs/tk ln)
0.640889	0.0011	0.640506	0.0011	0.4374	
k(trk length)	0.651194		0.641670	0.0015	k(tk ln/col)
0.641005	0.0012	0.640683	0.0012	0.5606	
rem life(col)	7.0160E+03		6.8442E+03	0.0013	k(col/abs/tk ln)
0.640706	0.0011	0.640507	0.0011		
rem life(abs)	7.0356E+03		6.8446E+03	0.0013	life(col/abs/tl)
6.8466E+03	0.0011	6.8528E+03	0.0009		
source points generated	4846				

estimator	cycle	272	ave of	222 cycles	combination
simple average	combined average		corr		
k(collision)	0.634921		0.640315	0.0012	k(col/abs)
0.640213	0.0011	0.640160	0.0011	0.8670	
k(absorption)	0.640767		0.640112	0.0011	k(abs/tk ln)
0.640870	0.0011	0.640497	0.0011	0.4368	
k(trk length)	0.632461		0.641629	0.0015	k(tk ln/col)
0.640972	0.0012	0.640653	0.0012	0.5611	
rem life(col)	6.6889E+03		6.8435E+03	0.0013	k(col/abs/tk ln)
0.640685	0.0011	0.640499	0.0011		
rem life(abs)	6.6714E+03		6.8439E+03	0.0013	life(col/abs/tl)
6.8460E+03	0.0011	6.8525E+03	0.0009		
source points generated	5061				

estimator	cycle	273	ave of	223 cycles	combination
simple average	combined average		corr		
k(collision)	0.637046		0.640300	0.0012	k(col/abs)
0.640192	0.0011	0.640136	0.0011	0.8669	
k(absorption)	0.633905		0.640084	0.0011	k(abs/tk ln)
0.640806	0.0011	0.640445	0.0011	0.4382	
k(trk length)	0.619144		0.641528	0.0015	k(tk ln/col)
0.640914	0.0012	0.640610	0.0012	0.5599	
rem life(col)	6.7557E+03		6.8431E+03	0.0013	k(col/abs/tk ln)
0.640637	0.0011	0.640445	0.0011		
rem life(abs)	6.7391E+03		6.8434E+03	0.0013	life(col/abs/tl)
6.8456E+03	0.0011	6.8523E+03	0.0009		
source points generated		5065			

estimator	cycle	274	ave of	224 cycles	combination
simple average	combined average		corr		
k(collision)	0.648039		0.640335	0.0012	k(col/abs)
0.640223	0.0011	0.640166	0.0011	0.8672	
k(absorption)	0.646439		0.640112	0.0011	k(abs/tk ln)
0.640875	0.0011	0.640487	0.0011	0.4395	
k(trk length)	0.666288		0.641638	0.0015	k(tk ln/col)
0.640986	0.0012	0.640656	0.0012	0.5609	
rem life(col)	6.8073E+03		6.8429E+03	0.0012	k(col/abs/tk ln)
0.640695	0.0011	0.640487	0.0011		
rem life(abs)	6.8079E+03		6.8432E+03	0.0012	life(col/abs/tl)
6.8456E+03	0.0011	6.8525E+03	0.0009		
source points generated		5105			

estimator	cycle	275	ave of	225 cycles	combination
simple average	combined average		corr		
k(collision)	0.633951		0.640306	0.0012	k(col/abs)
0.640186	0.0011	0.640125	0.0011	0.8672	
k(absorption)	0.629655		0.640066	0.0011	k(abs/tk ln)
0.640830	0.0011	0.640441	0.0011	0.4411	
k(trk length)	0.631631		0.641594	0.0015	k(tk ln/col)
0.640950	0.0012	0.640623	0.0012	0.5616	
rem life(col)	6.8484E+03		6.8430E+03	0.0012	k(col/abs/tk ln)
0.640655	0.0011	0.640441	0.0011		
rem life(abs)	6.8878E+03		6.8434E+03	0.0012	life(col/abs/tl)
6.8457E+03	0.0011	6.8527E+03	0.0009		
source points generated		4887			

estimator	cycle	276	ave of	226 cycles	combination
simple average	combined average		corr		
k(collision)	0.630993		0.640265	0.0012	k(col/abs)
0.640142	0.0011	0.640080	0.0011	0.8676	
k(absorption)	0.629496		0.640019	0.0011	k(abs/tk ln)
0.640772	0.0011	0.640386	0.0011	0.4438	
k(trk length)	0.625796		0.641524	0.0015	k(tk ln/col)
0.640894	0.0012	0.640572	0.0011	0.5632	
rem life(col)	7.0159E+03		6.8437E+03	0.0012	k(col/abs/tk ln)
0.640603	0.0011	0.640386	0.0011		
rem life(abs)	6.9965E+03		6.8441E+03	0.0012	life(col/abs/tl)
6.8464E+03	0.0011	6.8533E+03	0.0009		

source points generated 4945

estimator	cycle	277	ave of	227 cycles	combination
simple average	combined average		corr		
k(collision)	0.648404		0.640301	0.0012	k(col/abs)
0.640182	0.0011	0.640122	0.0011	0.8679	
k(absorption)	0.650009		0.640063	0.0011	k(abs/tk ln)
0.640819	0.0011	0.640431	0.0011	0.4456	
k(trk length)	0.653105		0.641575	0.0015	k(tk ln/col)
0.640938	0.0012	0.640611	0.0011	0.5643	
rem life(col)	6.9505E+03		6.8442E+03	0.0012	k(col/abs/tk ln)
0.640646	0.0011	0.640431	0.0011		
rem life(abs)	6.9791E+03		6.8447E+03	0.0012	life(col/abs/tl)
6.8469E+03	0.0011	6.8538E+03	0.0009		

source points generated 5201

estimator	cycle	278	ave of	228 cycles	combination
simple average	combined average		corr		
k(collision)	0.643766		0.640316	0.0012	k(col/abs)
0.640207	0.0011	0.640153	0.0011	0.8676	
k(absorption)	0.648086		0.640098	0.0011	k(abs/tk ln)
0.640797	0.0011	0.640440	0.0011	0.4394	
k(trk length)	0.623485		0.641496	0.0015	k(tk ln/col)
0.640906	0.0012	0.640601	0.0011	0.5606	
rem life(col)	6.8499E+03		6.8442E+03	0.0012	k(col/abs/tk ln)
0.640637	0.0011	0.640440	0.0011		
rem life(abs)	6.8262E+03		6.8446E+03	0.0012	life(col/abs/tl)
6.8468E+03	0.0011	6.8535E+03	0.0009		

source points generated 4971

estimator	cycle	279	ave of	229 cycles	combination
simple average	combined average		corr		
k(collision)	0.642595		0.640326	0.0012	k(col/abs)
0.640237	0.0011	0.640195	0.0011	0.8663	
k(absorption)	0.651461		0.640148	0.0011	k(abs/tk ln)
0.640838	0.0011	0.640487	0.0010	0.4405	
k(trk length)	0.649016		0.641528	0.0015	k(tk ln/col)
0.640927	0.0012	0.640616	0.0011	0.5607	
rem life(col)	6.6866E+03		6.8435E+03	0.0012	k(col/abs/tk ln)
0.640667	0.0011	0.640485	0.0011		
rem life(abs)	6.6913E+03		6.8440E+03	0.0012	life(col/abs/tl)
6.8462E+03	0.0011	6.8531E+03	0.0009		

source points generated 4996

estimator	cycle	280	ave of	230 cycles	combination
simple average	combined average		corr		
k(collision)	0.640564		0.640327	0.0012	k(col/abs)
0.640246	0.0011	0.640207	0.0011	0.8661	
k(absorption)	0.643875		0.640164	0.0011	k(abs/tk ln)
0.640818	0.0011	0.640485	0.0010	0.4382	
k(trk length)	0.628434		0.641471	0.0015	k(tk ln/col)
0.640899	0.0012	0.640602	0.0011	0.5596	
rem life(col)	6.6392E+03		6.8426E+03	0.0012	k(col/abs/tk ln)
0.640654	0.0011	0.640483	0.0010		

rem life(abs) 6.6432E+03 6.8431E+03 0.0012 life(col/abs/tl)
6.8455E+03 0.0011 6.8527E+03 0.0009
source points generated 4933

estimator	cycle	281	ave of	231 cycles	combination
simple average	combined average			corr	
k(collision)	0.627387		0.640271	0.0012	k(col/abs)
0.640183	0.0011	0.640142	0.0011	0.8668	
k(absorption)	0.623986		0.640094	0.0011	k(abs/tk ln)
0.640752	0.0011	0.640418	0.0010	0.4416	
k(trk length)	0.627228		0.641410	0.0015	k(tk ln/col)
0.640840	0.0012	0.640544	0.0011	0.5617	
rem life(col)	6.9772E+03		6.8432E+03	0.0012	k(col/abs/tk ln)
0.640592	0.0011	0.640416	0.0010		
rem life(abs)	6.9465E+03		6.8435E+03	0.0012	life(col/abs/tl)
6.8459E+03	0.0011	6.8532E+03	0.0009		
source points generated		4919			

estimator	cycle	282	ave of	232 cycles	combination
simple average	combined average			corr	
k(collision)	0.639564		0.640268	0.0012	k(col/abs)
0.640193	0.0011	0.640159	0.0011	0.8662	
k(absorption)	0.645497		0.640117	0.0011	k(abs/tk ln)
0.640766	0.0011	0.640437	0.0010	0.4415	
k(trk length)	0.642678		0.641415	0.0015	k(tk ln/col)
0.640842	0.0012	0.640543	0.0011	0.5617	
rem life(col)	7.0171E+03		6.8440E+03	0.0012	k(col/abs/tk ln)
0.640600	0.0011	0.640435	0.0010		
rem life(abs)	6.9946E+03		6.8442E+03	0.0012	life(col/abs/tl)
6.8464E+03	0.0011	6.8530E+03	0.0009		
source points generated		5088			

estimator	cycle	283	ave of	233 cycles	combination
simple average	combined average			corr	
k(collision)	0.647400		0.640299	0.0012	k(col/abs)
0.640235	0.0011	0.640207	0.0011	0.8661	
k(absorption)	0.652503		0.640171	0.0011	k(abs/tk ln)
0.640809	0.0011	0.640487	0.0010	0.4426	
k(trk length)	0.648935		0.641448	0.0015	k(tk ln/col)
0.640873	0.0012	0.640574	0.0011	0.5623	
rem life(col)	6.5566E+03		6.8427E+03	0.0012	k(col/abs/tk ln)
0.640639	0.0011	0.640483	0.0010		
rem life(abs)	6.5598E+03		6.8430E+03	0.0012	life(col/abs/tl)
6.8453E+03	0.0011	6.8523E+03	0.0009		
source points generated		5044			

estimator	cycle	284	ave of	234 cycles	combination
simple average	combined average			corr	
k(collision)	0.644967		0.640319	0.0011	k(col/abs)
0.640282	0.0011	0.640268	0.0011	0.8636	
k(absorption)	0.657857		0.640246	0.0011	k(abs/tk ln)
0.640879	0.0011	0.640561	0.0010	0.4464	
k(trk length)	0.656476		0.641512	0.0015	k(tk ln/col)
0.640915	0.0012	0.640602	0.0011	0.5626	

rem life(col)	6.8608E+03	6.8428E+03	0.0012	k(col/abs/tk ln)
0.640692 0.0011	0.640550	0.0010		
rem life(abs)	6.8782E+03	6.8431E+03	0.0012	life(col/abs/tl)
6.8453E+03 0.0011	6.8519E+03	0.0009		
source points generated	5027			

estimator	cycle	285	ave of	235 cycles	combination
simple average			combined average	corr	
k(collision)		0.658953		0.640398 0.0012	k(col/abs)
0.640336 0.0011		0.640311	0.0011	0.8623	
k(absorption)		0.646984		0.640275 0.0011	k(abs/tk ln)
0.640867 0.0011		0.640570	0.0010	0.4429	
k(trk length)		0.628972		0.641458 0.0015	k(tk ln/col)
0.640928 0.0012		0.640660	0.0011	0.5523	
rem life(col)	6.9821E+03			6.8434E+03 0.0012	k(col/abs/tk ln)
0.640710 0.0011		0.640565	0.0010		
rem life(abs)	7.0048E+03			6.8438E+03 0.0012	life(col/abs/tl)
6.8457E+03 0.0011		6.8517E+03	0.0009		
source points generated	5076				

estimator	cycle	286	ave of	236 cycles	combination
simple average			combined average	corr	
k(collision)		0.623553		0.640326 0.0012	k(col/abs)
0.640272 0.0011		0.640248	0.0011	0.8634	
k(absorption)		0.626548		0.640217 0.0011	k(abs/tk ln)
0.640766 0.0011		0.640481	0.0010	0.4489	
k(trk length)		0.607549		0.641315 0.0015	k(tk ln/col)
0.640821 0.0012		0.640561	0.0011	0.5580	
rem life(col)	6.8591E+03			6.8435E+03 0.0012	k(col/abs/tk ln)
0.640619 0.0011		0.640476	0.0010		
rem life(abs)	6.8591E+03			6.8439E+03 0.0012	life(col/abs/tl)
6.8458E+03 0.0011		6.8518E+03	0.0008		
source points generated	4750				

estimator	cycle	287	ave of	237 cycles	combination
simple average			combined average	corr	
k(collision)		0.653828		0.640383 0.0012	k(col/abs)
0.640329 0.0011		0.640306	0.0011	0.8642	
k(absorption)		0.654112		0.640275 0.0011	k(abs/tk ln)
0.640837 0.0011		0.640543	0.0010	0.4530	
k(trk length)		0.660994		0.641398 0.0015	k(tk ln/col)
0.640891 0.0012		0.640622	0.0011	0.5610	
rem life(col)	6.7844E+03			6.8432E+03 0.0012	k(col/abs/tk ln)
0.640685 0.0011		0.640537	0.0010		
rem life(abs)	6.7746E+03			6.8436E+03 0.0012	life(col/abs/tl)
6.8455E+03 0.0011		6.8515E+03	0.0008		
source points generated	5225				

estimator	cycle	288	ave of	238 cycles	combination
simple average			combined average	corr	
k(collision)		0.650291		0.640425 0.0011	k(col/abs)
0.640391 0.0011		0.640377	0.0011	0.8636	
k(absorption)		0.659485		0.640356 0.0011	k(abs/tk ln)
0.640889 0.0011		0.640616	0.0010	0.4528	

k(trk length)	0.647020	0.641421	0.0015	k(tk ln/col)
0.640923	0.0012	0.640660	0.0011	0.5614
rem life(col)	6.9769E+03	6.8438E+03	0.0012	k(col/abs/tk ln)
0.640734	0.0011	0.640606	0.0010	
rem life(abs)	6.9857E+03	6.8442E+03	0.0012	life(col/abs/tl)
6.8459E+03	0.0011	6.8514E+03	0.0008	
source points generated	5002			

estimator	cycle	289	ave of	239 cycles	combination
simple average	combined average		corr		
k(collision)	0.635959	0.640353	0.0011	0.8637	k(col/abs)
0.640368	0.0011	0.640353	0.0011	0.8637	
k(absorption)	0.634114	0.640330	0.0011	0.4529	k(abs/tk ln)
0.640870	0.0011	0.640594	0.0010	0.4529	
k(trk length)	0.638555	0.641409	0.0015	0.5615	k(tk ln/col)
0.640908	0.0012	0.640643	0.0011	0.5615	
rem life(col)	6.7230E+03	6.8433E+03	0.0012	0.4529	k(col/abs/tk ln)
0.640715	0.0011	0.640584	0.0010	0.4529	
rem life(abs)	6.7332E+03	6.8437E+03	0.0012	0.4529	life(col/abs/tl)
6.8455E+03	0.0011	6.8511E+03	0.0008	0.4529	
source points generated	4866			0.4529	

estimator	cycle	290	ave of	240 cycles	combination
simple average	combined average		corr		
k(collision)	0.628300	0.640320	0.0011	0.8636	k(col/abs)
0.640330	0.0011	0.640320	0.0011	0.8636	
k(absorption)	0.634285	0.640305	0.0011	0.4525	k(abs/tk ln)
0.640858	0.0011	0.640575	0.0010	0.4525	
k(trk length)	0.641673	0.641410	0.0015	0.5600	k(tk ln/col)
0.640883	0.0011	0.640608	0.0011	0.5600	
rem life(col)	6.8787E+03	6.8434E+03	0.0012	0.5600	k(col/abs/tk ln)
0.640690	0.0011	0.640564	0.0010	0.5600	
rem life(abs)	6.8867E+03	6.8439E+03	0.0012	0.5600	life(col/abs/tl)
6.8457E+03	0.0011	6.8515E+03	0.0008	0.5600	
source points generated	4929			0.5600	

estimator	cycle	291	ave of	241 cycles	combination
simple average	combined average		corr		
k(collision)	0.648380	0.640329	0.0011	0.8625	k(col/abs)
0.640346	0.0011	0.640329	0.0011	0.8625	
k(absorption)	0.639867	0.640303	0.0011	0.4516	k(abs/tk ln)
0.640884	0.0011	0.640586	0.0010	0.4516	
k(trk length)	0.654499	0.641465	0.0014	0.5612	k(tk ln/col)
0.640927	0.0011	0.640645	0.0011	0.5612	
rem life(col)	7.0919E+03	6.8445E+03	0.0012	0.5612	k(col/abs/tk ln)
0.640719	0.0010	0.640577	0.0010	0.5612	
rem life(abs)	7.1136E+03	6.8450E+03	0.0012	0.5612	life(col/abs/tl)
6.8466E+03	0.0011	6.8516E+03	0.0008	0.5612	
source points generated	5184			0.5612	

estimator	cycle	292	ave of	242 cycles	combination
simple average	combined average		corr		
k(collision)	0.648181	0.640421	0.0011	0.8619	k(col/abs)
0.640364	0.0011	0.640340	0.0011	0.8619	

k(absorption)	0.641150	0.640306	0.0011	k(abs/tk ln)
0.640899	0.0011	0.640595	0.0010	0.4516
k(trk length)	0.647975	0.641492	0.0014	k(tk ln/col)
0.640957	0.0011	0.640676	0.0011	0.5617
rem life(col)	7.0386E+03	6.8453E+03	0.0012	k(col/abs/tk ln)
0.640740	0.0010	0.640588	0.0010	
rem life(abs)	7.0649E+03	6.8459E+03	0.0012	life(col/abs/tl)
6.8473E+03	0.0011	6.8521E+03	0.0008	
source points generated	4984			

estimator	cycle	293	ave of	243 cycles	combination
simple average	combined average		corr		
k(collision)	0.644960	0.640440	0.0011	k(col/abs)	
0.640369	0.0011	0.640340	0.0011	0.8612	
k(absorption)	0.638355	0.640298	0.0011	k(abs/tk ln)	
0.640931	0.0011	0.640605	0.0010	0.4492	
k(trk length)	0.659003	0.641564	0.0014	k(tk ln/col)	
0.641002	0.0011	0.640705	0.0011	0.5618	
rem life(col)	6.8213E+03	6.8452E+03	0.0012	k(col/abs/tk ln)	
0.640767	0.0010	0.640599	0.0010		
rem life(abs)	6.8175E+03	6.8458E+03	0.0012	life(col/abs/tl)	
6.8472E+03	0.0011	6.8518E+03	0.0008		
source points generated	4949				

estimator	cycle	294	ave of	244 cycles	combination
simple average	combined average		corr		
k(collision)	0.646490	0.640465	0.0011	k(col/abs)	
0.640385	0.0011	0.640352	0.0011	0.8610	
k(absorption)	0.642057	0.640306	0.0011	k(abs/tk ln)	
0.640927	0.0011	0.640607	0.0010	0.4490	
k(trk length)	0.638017	0.641549	0.0014	k(tk ln/col)	
0.641007	0.0011	0.640721	0.0011	0.5608	
rem life(col)	6.9249E+03	6.8455E+03	0.0012	k(col/abs/tk ln)	
0.640773	0.0010	0.640603	0.0010		
rem life(abs)	6.9310E+03	6.8461E+03	0.0012	life(col/abs/tl)	
6.8474E+03	0.0010	6.8516E+03	0.0008		
source points generated	5015				

estimator	cycle	295	ave of	245 cycles	combination
simple average	combined average		corr		
k(collision)	0.638862	0.640458	0.0011	k(col/abs)	
0.640409	0.0011	0.640391	0.0010	0.8575	
k(absorption)	0.653702	0.640360	0.0011	k(abs/tk ln)	
0.640939	0.0011	0.640645	0.0010	0.4445	
k(trk length)	0.633833	0.641518	0.0014	k(tk ln/col)	
0.640988	0.0011	0.640708	0.0011	0.5608	
rem life(col)	7.0026E+03	6.8461E+03	0.0012	k(col/abs/tk ln)	
0.640779	0.0010	0.640636	0.0010		
rem life(abs)	6.9861E+03	6.8467E+03	0.0012	life(col/abs/tl)	
6.8479E+03	0.0010	6.8521E+03	0.0008		
source points generated	4976				

estimator	cycle	296	ave of	246 cycles	combination
simple average	combined average		corr		

k(collision)	0.657473	0.640528	0.0011	k(col/abs)
0.640460	0.0011	0.640433	0.0010	0.8571
k(absorption)	0.648257	0.640392	0.0011	k(abs/tk ln)
0.640983	0.0011	0.640682	0.0010	0.4461
k(trk length)	0.655465	0.641574	0.0014	k(tk ln/col)
0.641051	0.0011	0.640776	0.0011	0.5631
rem life(col)	6.9179E+03	6.8464E+03	0.0012	k(col/abs/tk ln)
0.640831	0.0010	0.640676	0.0010	
rem life(abs)	6.8834E+03	6.8469E+03	0.0012	life(col/abs/tl)
6.8482E+03	0.0010	6.8524E+03	0.0008	
source points generated	5159			

estimator	cycle	297	ave of	247 cycles	combination
simple average	combined average		corr		
k(collision)	0.649065	0.640562	0.0011	k(col/abs)	
0.640515	0.0010	0.640498	0.0010	0.8561	
k(absorption)	0.659096	0.640468	0.0011	k(abs/tk ln)	
0.641038	0.0011	0.640752	0.0010	0.4470	
k(trk length)	0.649636	0.641607	0.0014	k(tk ln/col)	
0.641085	0.0011	0.640810	0.0011	0.5638	
rem life(col)	6.7870E+03	6.8462E+03	0.0012	k(col/abs/tk ln)	
0.640879	0.0010	0.640741	0.0010		
rem life(abs)	6.7754E+03	6.8466E+03	0.0012	life(col/abs/tl)	
6.8479E+03	0.0010	6.8522E+03	0.0008		
source points generated	4970				

estimator	cycle	298	ave of	248 cycles	combination
simple average	combined average		corr		
k(collision)	0.637695	0.640551	0.0011	k(col/abs)	
0.640493	0.0010	0.640473	0.0010	0.8558	
k(absorption)	0.632511	0.640436	0.0011	k(abs/tk ln)	
0.641001	0.0011	0.640717	0.0010	0.4482	
k(trk length)	0.631311	0.641566	0.0014	k(tk ln/col)	
0.641058	0.0011	0.640791	0.0011	0.5639	
rem life(col)	6.9429E+03	6.8466E+03	0.0012	k(col/abs/tk ln)	
0.640851	0.0010	0.640707	0.0010		
rem life(abs)	6.9469E+03	6.8470E+03	0.0012	life(col/abs/tl)	
6.8483E+03	0.0010	6.8525E+03	0.0008		
source points generated	4900				

estimator	cycle	299	ave of	249 cycles	combination
simple average	combined average		corr		
k(collision)	0.647563	0.640579	0.0011	k(col/abs)	
0.640520	0.0010	0.640499	0.0010	0.8561	
k(absorption)	0.646653	0.640461	0.0011	k(abs/tk ln)	
0.640995	0.0011	0.640727	0.0010	0.4460	
k(trk length)	0.632409	0.641529	0.0014	k(tk ln/col)	
0.641054	0.0011	0.640805	0.0011	0.5614	
rem life(col)	6.8582E+03	6.8466E+03	0.0012	k(col/abs/tk ln)	
0.640856	0.0010	0.640720	0.0010		
rem life(abs)	6.8507E+03	6.8470E+03	0.0012	life(col/abs/tl)	
6.8483E+03	0.0010	6.8523E+03	0.0008		
source points generated	5057				

estimator	cycle	300	ave of	250 cycles	combination
simple average	combined average		corr		
k(collision)	0.631658		0.640543	0.0011	k(col/abs)
0.640490 0.0010	0.640470	0.0010	0.8562		
k(absorption)	0.634359		0.640437	0.0011	k(abs/tk ln)
0.640960 0.0011	0.640696	0.0010	0.4470		
k(trk length)	0.629977		0.641483	0.0014	k(tk ln/col)
0.641013 0.0011	0.640766	0.0011	0.5625		
rem life(col)	7.0188E+03		6.8473E+03	0.0012	k(col/abs/tk ln)
0.640821 0.0010	0.640688	0.0010			
rem life(abs)	7.0285E+03		6.8477E+03	0.0012	life(col/abs/tl)
6.8489E+03 0.0010	6.8527E+03	0.0008			
source points generated	4865				

estimator	cycle	301	ave of	251 cycles	combination
simple average	combined average		corr		
k(collision)	0.639975		0.640541	0.0011	k(col/abs)
0.640506 0.0010	0.640493	0.0010	0.8549		
k(absorption)	0.649041		0.640471	0.0010	k(abs/tk ln)
0.640992 0.0010	0.640730	0.0010	0.4479		
k(trk length)	0.649229		0.641513	0.0014	k(tk ln/col)
0.641027 0.0011	0.640771	0.0011	0.5620		
rem life(col)	6.6983E+03		6.8467E+03	0.0012	k(col/abs/tk ln)
0.640842 0.0010	0.640717	0.0010			
rem life(abs)	6.6966E+03		6.8471E+03	0.0012	life(col/abs/tl)
6.8483E+03 0.0010	6.8523E+03	0.0008			
source points generated	5068				

estimator	cycle	302	ave of	252 cycles	combination
simple average	combined average		corr		
k(collision)	0.645329		0.640560	0.0011	k(col/abs)
0.640518 0.0010	0.640504	0.0010	0.8548		
k(absorption)	0.642060		0.640477	0.0010	k(abs/tk ln)
0.641010 0.0010	0.640742	0.0010	0.4480		
k(trk length)	0.649043		0.641543	0.0014	k(tk ln/col)
0.641052 0.0011	0.640792	0.0011	0.5624		
rem life(col)	6.8930E+03		6.8469E+03	0.0012	k(col/abs/tk ln)
0.640860 0.0010	0.640730	0.0010			
rem life(abs)	6.8656E+03		6.8472E+03	0.0012	life(col/abs/tl)
6.8485E+03 0.0010	6.8527E+03	0.0008			
source points generated	5056				

estimator	cycle	303	ave of	253 cycles	combination
simple average	combined average		corr		
k(collision)	0.645996		0.640581	0.0011	k(col/abs)
0.640530 0.0010	0.640511	0.0010	0.8545		
k(absorption)	0.640656		0.640478	0.0010	k(abs/tk ln)
0.640989 0.0010	0.640731	0.0010	0.4474		
k(trk length)	0.630770		0.641501	0.0014	k(tk ln/col)
0.641041 0.0011	0.640799	0.0011	0.5601		
rem life(col)	6.8647E+03		6.8470E+03	0.0012	k(col/abs/tk ln)
0.640853 0.0010	0.640722	0.0010			
rem life(abs)	6.8623E+03		6.8472E+03	0.0012	life(col/abs/tl)
6.8485E+03 0.0010	6.8525E+03	0.0008			

source points generated 4985

estimator	cycle	304	ave of	254 cycles	combination
simple average	combined average		corr		
k(collision)	0.633177		0.640552	0.0011	k(col/abs)
0.640476	0.0010	0.640452	0.0010	0.8528	
k(absorption)	0.620777		0.640400	0.0010	k(abs/tk ln)
0.640954	0.0010	0.640682	0.0010	0.4433	
k(trk length)	0.643465		0.641508	0.0014	k(tk ln/col)
0.641030	0.0011	0.640780	0.0011	0.5592	
rem life(col)	6.9969E+03		6.8476E+03	0.0012	k(col/abs/tk ln)
0.640820	0.0010	0.640676	0.0010		
rem life(abs)	7.0183E+03		6.8479E+03	0.0012	life(col/abs/tl)
6.8490E+03	0.0010	6.8526E+03	0.0008		

source points generated 4907

estimator	cycle	305	ave of	255 cycles	combination
simple average	combined average		corr		
k(collision)	0.638687		0.640545	0.0011	k(col/abs)
0.640472	0.0010	0.640449	0.0010	0.8528	
k(absorption)	0.640039		0.640399	0.0010	k(abs/tk ln)
0.640950	0.0010	0.640679	0.0010	0.4433	
k(trk length)	0.639597		0.641501	0.0014	k(tk ln/col)
0.641023	0.0011	0.640773	0.0011	0.5592	
rem life(col)	6.8413E+03		6.8475E+03	0.0012	k(col/abs/tk ln)
0.640815	0.0010	0.640672	0.0010		
rem life(abs)	6.8316E+03		6.8479E+03	0.0012	life(col/abs/tl)
6.8489E+03	0.0010	6.8524E+03	0.0008		

source points generated 5038

estimator	cycle	306	ave of	256 cycles	combination
simple average	combined average		corr		
k(collision)	0.636280		0.640528	0.0011	k(col/abs)
0.640458	0.0010	0.640436	0.0010	0.8528	
k(absorption)	0.637717		0.640388	0.0010	k(abs/tk ln)
0.640912	0.0010	0.640653	0.0010	0.4433	
k(trk length)	0.624856		0.641436	0.0014	k(tk ln/col)
0.640982	0.0011	0.640743	0.0011	0.5593	
rem life(col)	6.7842E+03		6.8473E+03	0.0012	k(col/abs/tk ln)
0.640784	0.0010	0.640646	0.0010		
rem life(abs)	6.8373E+03		6.8478E+03	0.0012	life(col/abs/tl)
6.8488E+03	0.0010	6.8524E+03	0.0008		

source points generated 4985

estimator	cycle	307	ave of	257 cycles	combination
simple average	combined average		corr		
k(collision)	0.631550		0.640493	0.0011	k(col/abs)
0.640433	0.0010	0.640414	0.0010	0.8527	
k(absorption)	0.636430		0.640373	0.0010	k(abs/tk ln)
0.640878	0.0010	0.640627	0.0010	0.4437	
k(trk length)	0.627806		0.641383	0.0014	k(tk ln/col)
0.640938	0.0011	0.640702	0.0010	0.5606	
rem life(col)	6.7689E+03		6.8470E+03	0.0012	k(col/abs/tk ln)
0.640750	0.0010	0.640619	0.0010		

rem life(abs) 6.7450E+03 6.8474E+03 0.0012 life(col/abs/tl)
6.8486E+03 0.0010 6.8525E+03 0.0008
source points generated 4944

estimator	cycle	308	ave of	258 cycles	combination
simple average	combined average		corr		
k(collision)	0.637604		0.640482	0.0011	k(col/abs)
0.640427	0.0010	0.640410	0.0010	0.8526	
k(absorption)	0.640288		0.640373	0.0010	k(abs/tk ln)
0.640852	0.0010	0.640612	0.0010	0.4430	
k(trk length)	0.627998		0.641331	0.0014	k(tk ln/col)
0.640907	0.0011	0.640680	0.0010	0.5606	
rem life(col)	6.6530E+03		6.8462E+03	0.0012	k(col/abs/tk ln)
0.640729	0.0010	0.640604	0.0010		
rem life(abs)	6.6571E+03		6.8467E+03	0.0012	life(col/abs/tl)
6.8480E+03	0.0010	6.8524E+03	0.0008		
source points generated 5035					

estimator	cycle	309	ave of	259 cycles	combination
simple average	combined average		corr		
k(collision)	0.641763		0.640487	0.0011	k(col/abs)
0.640423	0.0010	0.640402	0.0010	0.8522	
k(absorption)	0.636791		0.640359	0.0010	k(abs/tk ln)
0.640852	0.0010	0.640606	0.0010	0.4425	
k(trk length)	0.645077		0.641345	0.0014	k(tk ln/col)
0.640916	0.0011	0.640687	0.0010	0.5606	
rem life(col)	6.9090E+03		6.8465E+03	0.0012	k(col/abs/tk ln)
0.640730	0.0010	0.640599	0.0010		
rem life(abs)	6.9269E+03		6.8470E+03	0.0012	life(col/abs/tl)
6.8483E+03	0.0010	6.8526E+03	0.0008		
source points generated 5046					

estimator	cycle	310	ave of	260 cycles	combination
simple average	combined average		corr		
k(collision)	0.651118		0.640528	0.0011	k(col/abs)
0.640461	0.0010	0.640440	0.0010	0.8527	
k(absorption)	0.649802		0.640395	0.0010	k(abs/tk ln)
0.640872	0.0010	0.640635	0.0010	0.4420	
k(trk length)	0.642230		0.641349	0.0014	k(tk ln/col)
0.640938	0.0011	0.640721	0.0010	0.5598	
rem life(col)	6.7313E+03		6.8460E+03	0.0012	k(col/abs/tk ln)
0.640757	0.0010	0.640630	0.0010		
rem life(abs)	6.7240E+03		6.8465E+03	0.0012	life(col/abs/tl)
6.8478E+03	0.0010	6.8522E+03	0.0008		
source points generated 5102					

estimator	cycle	311	ave of	261 cycles	combination
simple average	combined average		corr		
k(collision)	0.632970		0.640499	0.0011	k(col/abs)
0.640443	0.0010	0.640425	0.0010	0.8524	
k(absorption)	0.638285		0.640387	0.0010	k(abs/tk ln)
0.640837	0.0010	0.640612	0.0010	0.4417	
k(trk length)	0.624945		0.641286	0.0014	k(tk ln/col)
0.640892	0.0011	0.640682	0.0010	0.5609	

rem life(col)	6.8978E+03	6.8462E+03	0.0012	k(col/abs/tk ln)
0.640724 0.0010	0.640605	0.0010		
rem life(abs)	6.8606E+03	6.8466E+03	0.0012	life(col/abs/tl)
6.8480E+03 0.0010	6.8523E+03	0.0008		
source points generated	4845			

estimator	cycle	312	ave of	262 cycles	combination
simple average			combined average	corr	
k(collision)	0.631254		0.640464	0.0011	k(col/abs)
0.640418 0.0010	0.640403	0.0010	0.8521		
k(absorption)	0.636725		0.640373	0.0010	k(abs/tk ln)
0.640783 0.0010	0.640575	0.0010	0.4414		
k(trk length)	0.616882		0.641193	0.0014	k(tk ln/col)
0.640828 0.0011	0.640630	0.0010	0.5625		
rem life(col)	6.9852E+03		6.8468E+03	0.0012	k(col/abs/tk ln)
0.640677 0.0010	0.640568	0.0010			
rem life(abs)	6.9923E+03		6.8471E+03	0.0012	life(col/abs/tl)
6.8483E+03 0.0010	6.8521E+03	0.0008			
source points generated	5010				

estimator	cycle	313	ave of	263 cycles	combination
simple average			combined average	corr	
k(collision)	0.644147		0.640478	0.0011	k(col/abs)
0.640436 0.0010	0.640422	0.0010	0.8522		
k(absorption)	0.645878		0.640394	0.0010	k(abs/tk ln)
0.640797 0.0010	0.640593	0.0010	0.4415		
k(trk length)	0.643078		0.641200	0.0014	k(tk ln/col)
0.640839 0.0011	0.640643	0.0010	0.5625		
rem life(col)	6.7788E+03		6.8465E+03	0.0011	k(col/abs/tk ln)
0.640691 0.0010	0.640585	0.0010			
rem life(abs)	6.7482E+03		6.8467E+03	0.0012	life(col/abs/tl)
6.8480E+03 0.0010	6.8519E+03	0.0008			
source points generated	5099				

estimator	cycle	314	ave of	264 cycles	combination
simple average			combined average	corr	
k(collision)	0.641960		0.640483	0.0011	k(col/abs)
0.640466 0.0010	0.640460	0.0010	0.8498		
k(absorption)	0.654728		0.640448	0.0010	k(abs/tk ln)
0.640825 0.0010	0.640636	0.0010	0.4401		
k(trk length)	0.641779		0.641202	0.0014	k(tk ln/col)
0.640843 0.0011	0.640647	0.0010	0.5625		
rem life(col)	6.7246E+03		6.8460E+03	0.0011	k(col/abs/tk ln)
0.640711 0.0010	0.640623	0.0010			
rem life(abs)	6.7430E+03		6.8464E+03	0.0011	life(col/abs/tl)
6.8476E+03 0.0010	6.8515E+03	0.0008			
source points generated	5027				

estimator	cycle	315	ave of	265 cycles	combination
simple average			combined average	corr	
k(collision)	0.648131		0.640512	0.0011	k(col/abs)
0.640490 0.0010	0.640483	0.0010	0.8499		
k(absorption)	0.645461		0.640467	0.0010	k(abs/tk ln)
0.640877 0.0010	0.640669	0.0010	0.4407		

k(trk length)	0.663402	0.641286	0.0014	k(tk ln/col)
0.640899	0.0011	0.640686	0.0010	0.5635
rem life(col)	6.8159E+03	6.8459E+03	0.0011	k(col/abs/tk ln)
0.640755	0.0010	0.640655	0.0010	
rem life(abs)	6.8354E+03	6.8463E+03	0.0011	life(col/abs/tl)
6.8475E+03	0.0010	6.8513E+03	0.0008	
source points generated	5047			

estimator	cycle	316	ave of	266 cycles	combination
simple average	combined average		corr		
k(collision)	0.645799		0.640532	0.0010	k(col/abs)
0.640517	0.0010	0.640512	0.0010	0.8499	
k(absorption)	0.649725		0.640502	0.0010	k(abs/tk ln)
0.640873	0.0010	0.640686	0.0010	0.4370	
k(trk length)	0.630287		0.641245	0.0014	k(tk ln/col)
0.640888	0.0011	0.640692	0.0010	0.5612	
rem life(col)	7.1049E+03		6.8469E+03	0.0011	k(col/abs/tk ln)
0.640760	0.0010	0.640672	0.0010		
rem life(abs)	7.0596E+03		6.8471E+03	0.0011	life(col/abs/tl)
6.8482E+03	0.0010	6.8514E+03	0.0008		
source points generated	5003				

estimator	cycle	317	ave of	267 cycles	combination
simple average	combined average		corr		
k(collision)	0.623450		0.640468	0.0011	k(col/abs)
0.640456	0.0010	0.640452	0.0010	0.8512	
k(absorption)	0.624924		0.640444	0.0010	k(abs/tk ln)
0.640835	0.0010	0.640640	0.0010	0.4370	
k(trk length)	0.636406		0.641227	0.0014	k(tk ln/col)
0.640847	0.0011	0.640642	0.0010	0.5605	
rem life(col)	7.1512E+03		6.8480E+03	0.0012	k(col/abs/tk ln)
0.640713	0.0010	0.640625	0.0010		
rem life(abs)	7.1126E+03		6.8481E+03	0.0012	life(col/abs/tl)
6.8491E+03	0.0010	6.8521E+03	0.0008		
source points generated	4861				

estimator	cycle	318	ave of	268 cycles	combination
simple average	combined average		corr		
k(collision)	0.644079		0.640481	0.0010	k(col/abs)
0.640473	0.0010	0.640471	0.0010	0.8512	
k(absorption)	0.646311		0.640466	0.0010	k(abs/tk ln)
0.640814	0.0010	0.640641	0.0009	0.4330	
k(trk length)	0.624133		0.641163	0.0013	k(tk ln/col)
0.640822	0.0011	0.640637	0.0010	0.5574	
rem life(col)	6.8621E+03		6.8481E+03	0.0011	k(col/abs/tk ln)
0.640703	0.0010	0.640627	0.0009		
rem life(abs)	6.8497E+03		6.8481E+03	0.0011	life(col/abs/tl)
6.8492E+03	0.0010	6.8524E+03	0.0008		
source points generated	5167				

estimator	cycle	319	ave of	269 cycles	combination
simple average	combined average		corr		
k(collision)	0.657972		0.640546	0.0010	k(col/abs)
0.640530	0.0010	0.640525	0.0010	0.8522	

k(absorption)	0.653613	0.640514	0.0010	k(abs/tk ln)
0.640838	0.0010	0.640679	0.0009	0.4317
k(trk length)	0.641028	0.641162	0.0013	k(tk ln/col)
0.640854	0.0011	0.640691	0.0010	0.5547
rem life(col)	6.7967E+03	6.8479E+03	0.0011	k(col/abs/tk ln)
0.640741	0.0010	0.640669	0.0009	
rem life(abs)	6.8520E+03	6.8481E+03	0.0011	life(col/abs/tl)
6.8491E+03	0.0010	6.8523E+03	0.0008	
source points generated	5108			

estimator	cycle	320	ave of	270 cycles	combination
simple average	combined average		corr		
k(collision)	0.632756	0.640518	0.0010	k(col/abs)	
0.640524	0.0010	0.640526	0.0010	0.8500	
k(absorption)	0.644951	0.640531	0.0010	k(abs/tk ln)	
0.640833	0.0010	0.640684	0.0009	0.4305	
k(trk length)	0.633881	0.641135	0.0013	k(tk ln/col)	
0.640826	0.0011	0.640663	0.0010	0.5553	
rem life(col)	6.9789E+03	6.8484E+03	0.0011	k(col/abs/tk ln)	
0.640728	0.0010	0.640670	0.0009		
rem life(abs)	6.9685E+03	6.8486E+03	0.0011	life(col/abs/tl)	
6.8495E+03	0.0010	6.8522E+03	0.0008		
source points generated	4828				

estimator	cycle	321	ave of	271 cycles	combination
simple average	combined average		corr		
k(collision)	0.633059	0.640490	0.0010	k(col/abs)	
0.640499	0.0010	0.640501	0.0010	0.8502	
k(absorption)	0.634090	0.640507	0.0010	k(abs/tk ln)	
0.640767	0.0010	0.640636	0.0009	0.4315	
k(trk length)	0.611491	0.641026	0.0013	k(tk ln/col)	
0.640758	0.0011	0.640612	0.0010	0.5556	
rem life(col)	6.9402E+03	6.8487E+03	0.0011	k(col/abs/tk ln)	
0.640674	0.0010	0.640623	0.0009		
rem life(abs)	6.9657E+03	6.8490E+03	0.0011	life(col/abs/tl)	
6.8499E+03	0.0010	6.8526E+03	0.0008		
source points generated	4992				

estimator	cycle	322	ave of	272 cycles	combination
simple average	combined average		corr		
k(collision)	0.631077	0.640455	0.0010	k(col/abs)	
0.640480	0.0010	0.640489	0.0010	0.8492	
k(absorption)	0.640044	0.640505	0.0010	k(abs/tk ln)	
0.640762	0.0010	0.640633	0.0009	0.4315	
k(trk length)	0.639238	0.641019	0.0013	k(tk ln/col)	
0.640737	0.0011	0.640585	0.0010	0.5552	
rem life(col)	6.7434E+03	6.8483E+03	0.0011	k(col/abs/tk ln)	
0.640660	0.0010	0.640616	0.0009		
rem life(abs)	6.7091E+03	6.8485E+03	0.0011	life(col/abs/tl)	
6.8494E+03	0.0010	6.8524E+03	0.0008		
source points generated	5004				

estimator	cycle	323	ave of	273 cycles	combination
simple average	combined average		corr		

k(collision)	0.647855	0.640483	0.0010	k(col/abs)
0.640515	0.0010	0.640526	0.0010	0.8493
k(absorption)	0.652173	0.640548	0.0010	k(abs/tk ln)
0.640791	0.0010	0.640670	0.0009	0.4317
k(trk length)	0.645124	0.641034	0.0013	k(tk ln/col)
0.640758	0.0010	0.640609	0.0010	0.5554
rem life(col)	6.5125E+03	6.8471E+03	0.0011	k(col/abs/tk ln)
0.640688	0.0010	0.640651	0.0009	
rem life(abs)	6.5181E+03	6.8473E+03	0.0011	life(col/abs/tl)
6.8484E+03	0.0010	6.8518E+03	0.0008	
source points generated	5185			

estimator	cycle	324	ave of	274 cycles	combination
simple average	combined average		corr		
k(collision)	0.626893	0.640433	0.0010	k(col/abs)	
0.640462	0.0010	0.640471	0.0010	0.8502	
k(absorption)	0.624947	0.640491	0.0010	k(abs/tk ln)	
0.640683	0.0010	0.640582	0.0009	0.4391	
k(trk length)	0.597459	0.640875	0.0014	k(tk ln/col)	
0.640654	0.0011	0.640528	0.0010	0.5582	
rem life(col)	7.1052E+03	6.8480E+03	0.0011	k(col/abs/tk ln)	
0.640600	0.0010	0.640564	0.0009		
rem life(abs)	7.1001E+03	6.8482E+03	0.0011	life(col/abs/tl)	
6.8492E+03	0.0010	6.8525E+03	0.0008		
source points generated	4794				

estimator	cycle	325	ave of	275 cycles	combination
simple average	combined average		corr		
k(collision)	0.652179	0.640476	0.0010	k(col/abs)	
0.640493	0.0010	0.640499	0.0010	0.8500	
k(absorption)	0.645770	0.640510	0.0010	k(abs/tk ln)	
0.640727	0.0010	0.640612	0.0009	0.4399	
k(trk length)	0.659627	0.640944	0.0014	k(tk ln/col)	
0.640710	0.0011	0.640575	0.0010	0.5603	
rem life(col)	6.5425E+03	6.8469E+03	0.0012	k(col/abs/tk ln)	
0.640643	0.0010	0.640597	0.0009		
rem life(abs)	6.5527E+03	6.8471E+03	0.0012	life(col/abs/tl)	
6.8483E+03	0.0010	6.8519E+03	0.0008		
source points generated	5179				

estimator	cycle	326	ave of	276 cycles	combination
simple average	combined average		corr		
k(collision)	0.645525	0.640494	0.0010	k(col/abs)	
0.640524	0.0010	0.640533	0.0010	0.8496	
k(absorption)	0.652476	0.640554	0.0010	k(abs/tk ln)	
0.640778	0.0010	0.640659	0.0009	0.4426	
k(trk length)	0.657225	0.641003	0.0014	k(tk ln/col)	
0.640748	0.0011	0.640601	0.0010	0.5607	
rem life(col)	6.8171E+03	6.8468E+03	0.0012	k(col/abs/tk ln)	
0.640683	0.0010	0.640638	0.0009		
rem life(abs)	6.8088E+03	6.8470E+03	0.0012	life(col/abs/tl)	
6.8482E+03	0.0010	6.8518E+03	0.0008		
source points generated	4962				

estimator	cycle	327	ave of	277 cycles	combination
simple average	combined average		corr		
k(collision)	0.648934		0.640524	0.0010	k(col/abs)
0.640542 0.0010	0.640547	0.0010	0.8490		
k(absorption)	0.642060		0.640559	0.0010	k(abs/tk ln)
0.640759 0.0010	0.640653	0.0009	0.4416		
k(trk length)	0.629142		0.640960	0.0013	k(tk ln/col)
0.640742 0.0011	0.640617	0.0010	0.5571		
rem life(col)	6.8001E+03		6.8467E+03	0.0011	k(col/abs/tk ln)
0.640681 0.0010	0.640637	0.0009			
rem life(abs)	6.8011E+03		6.8468E+03	0.0011	life(col/abs/tl)
6.8480E+03 0.0010	6.8518E+03	0.0008			
source points generated 5023					

estimator	cycle	328	ave of	278 cycles	combination
simple average	combined average		corr		
k(collision)	0.647035		0.640548	0.0010	k(col/abs)
0.640551 0.0010	0.640552	0.0010	0.8482		
k(absorption)	0.639074		0.640554	0.0010	k(abs/tk ln)
0.640741 0.0010	0.640641	0.0009	0.4416		
k(trk length)	0.632290		0.640929	0.0013	k(tk ln/col)
0.640738 0.0010	0.640629	0.0010	0.5551		
rem life(col)	6.8138E+03		6.8465E+03	0.0011	k(col/abs/tk ln)
0.640677 0.0010	0.640630	0.0009			
rem life(abs)	6.8186E+03		6.8467E+03	0.0011	life(col/abs/tl)
6.8480E+03 0.0010	6.8519E+03	0.0008			
source points generated 4928					

estimator	cycle	329	ave of	279 cycles	combination
simple average	combined average		corr		
k(collision)	0.649010		0.640578	0.0010	k(col/abs)
0.640589 0.0010	0.640593	0.0010	0.8483		
k(absorption)	0.653527		0.640600	0.0010	k(abs/tk ln)
0.640786 0.0010	0.640687	0.0009	0.4435		
k(trk length)	0.652913		0.640971	0.0013	k(tk ln/col)
0.640775 0.0010	0.640662	0.0010	0.5562		
rem life(col)	6.7011E+03		6.8460E+03	0.0011	k(col/abs/tk ln)
0.640717 0.0010	0.640673	0.0009			
rem life(abs)	6.7289E+03		6.8463E+03	0.0011	life(col/abs/tl)
6.8475E+03 0.0010	6.8515E+03	0.0008			
source points generated 5019					

estimator	cycle	330	ave of	280 cycles	combination
simple average	combined average		corr		
k(collision)	0.649708		0.640611	0.0010	k(col/abs)
0.640605 0.0010	0.640603	0.0010	0.8472		
k(absorption)	0.640401		0.640600	0.0010	k(abs/tk ln)
0.640781 0.0010	0.640684	0.0009	0.4435		
k(trk length)	0.638149		0.640961	0.0013	k(tk ln/col)
0.640786 0.0010	0.640686	0.0010	0.5548		
rem life(col)	6.8512E+03		6.8460E+03	0.0011	k(col/abs/tk ln)
0.640724 0.0010	0.640676	0.0009			
rem life(abs)	6.8636E+03		6.8464E+03	0.0011	life(col/abs/tl)
6.8476E+03 0.0010	6.8517E+03	0.0008			

source points generated 5042

estimator	cycle	331	ave of	281 cycles	combination
simple average	combined average			corr	
k(collision)	0.643363		0.640621	0.0010	k(col/abs)
0.640620 0.0010	0.640620	0.0010	0.8472		
k(absorption)	0.646106		0.640619	0.0010	k(abs/tk ln)
0.640796 0.0010	0.640702	0.0009	0.4436		
k(trk length)	0.644152		0.640973	0.0013	k(tk ln/col)
0.640797 0.0010	0.640696	0.0010	0.5549		
rem life(col)	6.8304E+03		6.8460E+03	0.0011	k(col/abs/tk ln)
0.640738 0.0009	0.640692	0.0009			
rem life(abs)	6.8134E+03		6.8462E+03	0.0011	life(col/abs/tl)
6.8476E+03 0.0010	6.8519E+03	0.0008			

source points generated 4947

estimator	cycle	332	ave of	282 cycles	combination
simple average	combined average			corr	
k(collision)	0.627162		0.640573	0.0010	k(col/abs)
0.640572 0.0010	0.640572	0.0010	0.8480		
k(absorption)	0.627078		0.640571	0.0010	k(abs/tk ln)
0.640774 0.0010	0.640667	0.0009	0.4420		
k(trk length)	0.641960		0.640976	0.0013	k(tk ln/col)
0.640775 0.0010	0.640661	0.0010	0.5531		
rem life(col)	6.9297E+03		6.8463E+03	0.0011	k(col/abs/tk ln)
0.640707 0.0009	0.640656	0.0009			
rem life(abs)	6.8939E+03		6.8464E+03	0.0011	life(col/abs/tl)
6.8478E+03 0.0010	6.8521E+03	0.0008			

source points generated 4888

estimator	cycle	333	ave of	283 cycles	combination
simple average	combined average			corr	
k(collision)	0.646867		0.640595	0.0010	k(col/abs)
0.640580 0.0010	0.640575	0.0009	0.8471		
k(absorption)	0.638517		0.640564	0.0010	k(abs/tk ln)
0.640791 0.0010	0.640671	0.0009	0.4408		
k(trk length)	0.652881		0.641018	0.0013	k(tk ln/col)
0.640807 0.0010	0.640687	0.0010	0.5538		
rem life(col)	6.7369E+03		6.8459E+03	0.0011	k(col/abs/tk ln)
0.640726 0.0009	0.640663	0.0009			
rem life(abs)	6.7736E+03		6.8462E+03	0.0011	life(col/abs/tl)
6.8476E+03 0.0010	6.8523E+03	0.0008			

source points generated 5169

estimator	cycle	334	ave of	284 cycles	combination
simple average	combined average			corr	
k(collision)	0.631631		0.640564	0.0010	k(col/abs)
0.640555 0.0009	0.640553	0.0009	0.8471		
k(absorption)	0.635792		0.640547	0.0010	k(abs/tk ln)
0.640780 0.0010	0.640657	0.0009	0.4408		
k(trk length)	0.639743		0.641014	0.0013	k(tk ln/col)
0.640789 0.0010	0.640662	0.0010	0.5534		
rem life(col)	6.7493E+03		6.8456E+03	0.0011	k(col/abs/tk ln)
0.640708 0.0009	0.640647	0.0009			

rem life(abs)	6.7372E+03	6.8458E+03	0.0011	life(col/abs/tl)
6.8474E+03	0.0010	6.8523E+03	0.0008	
source points generated	4897			

estimator	cycle	335	ave of	285 cycles	combination
simple average	combined average		corr		
k(collision)	0.639578		0.640560	0.0010	k(col/abs)
0.640544	0.0009	0.640539	0.0009	0.8468	
k(absorption)	0.634938		0.640527	0.0010	k(abs/tk ln)
0.640762	0.0010	0.640638	0.0009	0.4411	
k(trk length)	0.636308		0.640997	0.0013	k(tk ln/col)
0.640779	0.0010	0.640656	0.0010	0.5534	
rem life(col)	6.9799E+03		6.8460E+03	0.0011	k(col/abs/tk ln)
0.640695	0.0009	0.640631	0.0009		
rem life(abs)	7.0068E+03		6.8463E+03	0.0011	life(col/abs/tl)
6.8478E+03	0.0010	6.8524E+03	0.0008		
source points generated	5039				

estimator	cycle	336	ave of	286 cycles	combination
simple average	combined average		corr		
k(collision)	0.639484		0.640556	0.0010	k(col/abs)
0.640527	0.0009	0.640518	0.0009	0.8461	
k(absorption)	0.631925		0.640497	0.0010	k(abs/tk ln)
0.640756	0.0010	0.640620	0.0009	0.4395	
k(trk length)	0.645978		0.641015	0.0013	k(tk ln/col)
0.640786	0.0010	0.640657	0.0010	0.5531	
rem life(col)	6.9053E+03		6.8462E+03	0.0011	k(col/abs/tk ln)
0.640689	0.0009	0.640615	0.0009		
rem life(abs)	6.9215E+03		6.8466E+03	0.0011	life(col/abs/tl)
6.8480E+03	0.0010	6.8525E+03	0.0008		
source points generated	4976				

estimator	cycle	337	ave of	287 cycles	combination
simple average	combined average		corr		
k(collision)	0.638260		0.640548	0.0010	k(col/abs)
0.640508	0.0009	0.640497	0.0009	0.8456	
k(absorption)	0.632134		0.640468	0.0010	k(abs/tk ln)
0.640724	0.0010	0.640590	0.0009	0.4406	
k(trk length)	0.630782		0.640979	0.0013	k(tk ln/col)
0.640764	0.0010	0.640642	0.0010	0.5531	
rem life(col)	6.7146E+03		6.8458E+03	0.0011	k(col/abs/tk ln)
0.640665	0.0009	0.640587	0.0009		
rem life(abs)	6.7421E+03		6.8462E+03	0.0011	life(col/abs/tl)
6.8476E+03	0.0010	6.8523E+03	0.0008		
source points generated	4996				

estimator	cycle	338	ave of	288 cycles	combination
simple average	combined average		corr		
k(collision)	0.632672		0.640521	0.0010	k(col/abs)
0.640481	0.0009	0.640469	0.0009	0.8459	
k(absorption)	0.632351		0.640440	0.0010	k(abs/tk ln)
0.640675	0.0010	0.640551	0.0009	0.4424	
k(trk length)	0.621355		0.640911	0.0013	k(tk ln/col)
0.640716	0.0010	0.640605	0.0010	0.5543	

rem life(col)	6.8167E+03	6.8457E+03	0.0011	k(col/abs/tk ln)
0.640624 0.0009	0.640550	0.0009		
rem life(abs)	6.8319E+03	6.8462E+03	0.0011	life(col/abs/tl)
6.8475E+03 0.0010	6.8520E+03	0.0008		
source points generated	4913			

estimator	cycle	339	ave of	289 cycles	combination
simple average	combined average		corr		
k(collision)	0.655262		0.640572	0.0010	k(col/abs)
0.640539 0.0009	0.640530	0.0009	0.8469		
k(absorption)	0.659504		0.640506	0.0010	k(abs/tk ln)
0.640723 0.0010	0.640609	0.0009	0.4433		
k(trk length)	0.649168		0.640940	0.0013	k(tk ln/col)
0.640756 0.0010	0.640652	0.0010	0.5549		
rem life(col)	6.5982E+03		6.8448E+03	0.0011	k(col/abs/tk ln)
0.640673 0.0009	0.640607	0.0009			
rem life(abs)	6.5837E+03		6.8453E+03	0.0011	life(col/abs/tl)
6.8467E+03 0.0010	6.8514E+03	0.0008			
source points generated	5217				

estimator	cycle	340	ave of	290 cycles	combination
simple average	combined average		corr		
k(collision)	0.637569		0.640562	0.0010	k(col/abs)
0.640521 0.0009	0.640509	0.0009	0.8467		
k(absorption)	0.632850		0.640480	0.0010	k(abs/tk ln)
0.640695 0.0010	0.640582	0.0009	0.4441		
k(trk length)	0.632421		0.640910	0.0013	k(tk ln/col)
0.640736 0.0010	0.640637	0.0010	0.5551		
rem life(col)	6.8235E+03		6.8447E+03	0.0011	k(col/abs/tk ln)
0.640650 0.0009	0.640583	0.0009			
rem life(abs)	6.8428E+03		6.8453E+03	0.0011	life(col/abs/tl)
6.8467E+03 0.0010	6.8517E+03	0.0008			
source points generated	4860				

estimator	cycle	341	ave of	291 cycles	combination
simple average	combined average		corr		
k(collision)	0.662331		0.640636	0.0010	k(col/abs)
0.640584 0.0009	0.640568	0.0009	0.8478		
k(absorption)	0.655327		0.640531	0.0010	k(abs/tk ln)
0.640728 0.0010	0.640626	0.0009	0.4441		
k(trk length)	0.645617		0.640926	0.0013	k(tk ln/col)
0.640781 0.0010	0.640701	0.0010	0.5534		
rem life(col)	6.6678E+03		6.8441E+03	0.0011	k(col/abs/tk ln)
0.640698 0.0009	0.640631	0.0009			
rem life(abs)	6.6693E+03		6.8447E+03	0.0011	life(col/abs/tl)
6.8462E+03 0.0010	6.8514E+03	0.0008			
source points generated	5189				

estimator	cycle	342	ave of	292 cycles	combination
simple average	combined average		corr		
k(collision)	0.648977		0.640665	0.0010	k(col/abs)
0.640603 0.0009	0.640584	0.0009	0.8475		
k(absorption)	0.643432		0.640541	0.0009	k(abs/tk ln)
0.640702 0.0010	0.640618	0.0009	0.4415		

k(trk length)	0.622505	0.640863	0.0013	k(tk ln/col)
0.640764 0.0010	0.640710	0.0010	0.5479	
rem life(col)	6.8613E+03	6.8442E+03	0.0011	k(col/abs/tk ln)
0.640690 0.0009	0.640629	0.0009		
rem life(abs)	6.8933E+03	6.8448E+03	0.0011	life(col/abs/tl)
6.8464E+03 0.0010	6.8517E+03	0.0008		
source points generated	4894			

estimator	cycle	343	ave of	293 cycles	combination
simple average	combined average		corr		
k(collision)	0.640045		0.640663	0.0010	k(col/abs)
0.640609 0.0009	0.640593	0.0009	0.8472		
k(absorption)	0.644729		0.640555	0.0009	k(abs/tk ln)
0.640709 0.0010	0.640629	0.0009	0.4414		
k(trk length)	0.640736		0.640863	0.0013	k(tk ln/col)
0.640763 0.0010	0.640708	0.0010	0.5479		
rem life(col)	6.9365E+03		6.8445E+03	0.0011	k(col/abs/tk ln)
0.640694 0.0009	0.640637	0.0009			
rem life(abs)	6.9349E+03		6.8451E+03	0.0011	life(col/abs/tl)
6.8466E+03 0.0010	6.8519E+03	0.0007			
source points generated	4957				

estimator	cycle	344	ave of	294 cycles	combination
simple average	combined average		corr		
k(collision)	0.652264		0.640702	0.0010	k(col/abs)
0.640646 0.0009	0.640629	0.0009	0.8478		
k(absorption)	0.650931		0.640590	0.0009	k(abs/tk ln)
0.640764 0.0010	0.640673	0.0009	0.4441		
k(trk length)	0.662998		0.640938	0.0013	k(tk ln/col)
0.640820 0.0010	0.640755	0.0010	0.5502		
rem life(col)	6.8385E+03		6.8445E+03	0.0011	k(col/abs/tk ln)
0.640744 0.0009	0.640681	0.0009			
rem life(abs)	6.8222E+03		6.8451E+03	0.0011	life(col/abs/tl)
6.8466E+03 0.0010	6.8520E+03	0.0007			
source points generated	5070				

estimator	cycle	345	ave of	295 cycles	combination
simple average	combined average		corr		
k(collision)	0.629903		0.640666	0.0010	k(col/abs)
0.640616 0.0009	0.640600	0.0009	0.8480		
k(absorption)	0.633323		0.640566	0.0009	k(abs/tk ln)
0.640713 0.0010	0.640634	0.0009	0.4456		
k(trk length)	0.617898		0.640860	0.0013	k(tk ln/col)
0.640763 0.0010	0.640708	0.0010	0.5523		
rem life(col)	6.9954E+03		6.8450E+03	0.0011	k(col/abs/tk ln)
0.640697 0.0009	0.640642	0.0009			
rem life(abs)	6.9902E+03		6.8456E+03	0.0011	life(col/abs/tl)
6.8472E+03 0.0010	6.8526E+03	0.0007			
source points generated	4834				

estimator	cycle	346	ave of	296 cycles	combination
simple average	combined average		corr		
k(collision)	0.650832		0.640700	0.0010	k(col/abs)
0.640636 0.0009	0.640616	0.0009	0.8473		

k(absorption)	0.642467	0.640572	0.0009	k(abs/tk ln)
0.640689	0.0010	0.640627	0.0009	0.4440
k(trk length)	0.624930	0.640806	0.0013	k(tk ln/col)
0.640753	0.0010	0.640723	0.0010	0.5468
rem life(col)	6.7745E+03	6.8448E+03	0.0011	k(col/abs/tk ln)
0.640693	0.0009	0.640640	0.0009	
rem life(abs)	6.8012E+03	6.8454E+03	0.0011	life(col/abs/tl)
6.8470E+03	0.0010	6.8525E+03	0.0007	
source points generated	5202			

estimator	cycle	347	ave of	297 cycles	combination
simple average	combined average		corr		
k(collision)	0.634472	0.640679	0.0010	k(col/abs)	
0.640618	0.0009	0.640598	0.0009	0.8474	
k(absorption)	0.635804	0.640556	0.0009	k(abs/tk ln)	
0.640660	0.0010	0.640604	0.0009	0.4446	
k(trk length)	0.628151	0.640764	0.0013	k(tk ln/col)	
0.640721	0.0010	0.640698	0.0010	0.5475	
rem life(col)	7.0086E+03	6.8453E+03	0.0011	k(col/abs/tk ln)	
0.640666	0.0009	0.640618	0.0009		
rem life(abs)	6.9996E+03	6.8459E+03	0.0011	life(col/abs/tl)	
6.8475E+03	0.0010	6.8528E+03	0.0007		
source points generated	4859				

estimator	cycle	348	ave of	298 cycles	combination
simple average	combined average		corr		
k(collision)	0.637245	0.640668	0.0010	k(col/abs)	
0.640614	0.0009	0.640597	0.0009	0.8471	
k(absorption)	0.641875	0.640560	0.0009	k(abs/tk ln)	
0.640682	0.0009	0.640616	0.0009	0.4444	
k(trk length)	0.652539	0.640803	0.0013	k(tk ln/col)	
0.640735	0.0010	0.640697	0.0010	0.5459	
rem life(col)	6.7864E+03	6.8451E+03	0.0011	k(col/abs/tk ln)	
0.640677	0.0009	0.640627	0.0009		
rem life(abs)	6.7733E+03	6.8457E+03	0.0011	life(col/abs/tl)	
6.8473E+03	0.0010	6.8528E+03	0.0007		
source points generated	4995				

estimator	cycle	349	ave of	299 cycles	combination
simple average	combined average		corr		
k(collision)	0.636317	0.640653	0.0010	k(col/abs)	
0.640620	0.0009	0.640609	0.0009	0.8451	
k(absorption)	0.648291	0.640586	0.0009	k(abs/tk ln)	
0.640661	0.0009	0.640621	0.0009	0.4390	
k(trk length)	0.620641	0.640736	0.0013	k(tk ln/col)	
0.640694	0.0010	0.640671	0.0009	0.5458	
rem life(col)	6.8311E+03	6.8451E+03	0.0011	k(col/abs/tk ln)	
0.640658	0.0009	0.640627	0.0009		
rem life(abs)	6.8061E+03	6.8455E+03	0.0011	life(col/abs/tl)	
6.8471E+03	0.0009	6.8525E+03	0.0007		
source points generated	4980				

estimator	cycle	350	ave of	300 cycles	combination
simple average	combined average		corr		

k(collision)	0.635251	0.640635	0.0010	k(col/abs)
0.640609	0.0009	0.640601	0.0009	0.8448
k(absorption)	0.639697	0.640583	0.0009	k(abs/tk ln)
0.640643	0.0009	0.640611	0.0009	0.4388
k(trk length)	0.631095	0.640704	0.0013	k(tk ln/col)
0.640669	0.0010	0.640650	0.0009	0.5463
rem life(col)	6.7408E+03	6.8447E+03	0.0011	k(col/abs/tk ln)
0.640641	0.0009	0.640616	0.0009	
rem life(abs)	6.7685E+03	6.8453E+03	0.0011	life(col/abs/tl)
6.8469E+03	0.0009	6.8525E+03	0.0007	
source points generated	4970			

estimator	cycle	351	ave of	301 cycles	combination
simple average	combined average			corr	
k(collision)	0.649446		0.640664	0.0010	k(col/abs)
0.640619	0.0009	0.640605	0.0009	0.8430	
k(absorption)	0.637555		0.640573	0.0009	k(abs/tk ln)
0.640666	0.0009	0.640616	0.0009	0.4367	
k(trk length)	0.657134		0.640758	0.0013	k(tk ln/col)
0.640711	0.0010	0.640684	0.0009	0.5476	
rem life(col)	6.9173E+03		6.8450E+03	0.0011	k(col/abs/tk ln)
0.640665	0.0009	0.640625	0.0009		
rem life(abs)	6.9329E+03		6.8456E+03	0.0011	life(col/abs/tl)
6.8472E+03	0.0009	6.8527E+03	0.0007		
source points generated	5098				

estimator	cycle	352	ave of	302 cycles	combination
simple average	combined average			corr	
k(collision)	0.629247		0.640627	0.0010	k(col/abs)
0.640575	0.0009	0.640560	0.0009	0.8436	
k(absorption)	0.625861		0.640524	0.0009	k(abs/tk ln)
0.640661	0.0009	0.640589	0.0009	0.4306	
k(trk length)	0.652889		0.640798	0.0013	k(tk ln/col)
0.640712	0.0010	0.640664	0.0009	0.5429	
rem life(col)	6.8460E+03		6.8450E+03	0.0011	k(col/abs/tk ln)
0.640650	0.0009	0.640597	0.0009		
rem life(abs)	6.8427E+03		6.8456E+03	0.0011	life(col/abs/tl)
6.8471E+03	0.0009	6.8525E+03	0.0007		
source points generated	4834				

estimator	cycle	353	ave of	303 cycles	combination
simple average	combined average			corr	
k(collision)	0.632485		0.640600	0.0010	k(col/abs)
0.640559	0.0009	0.640547	0.0009	0.8432	
k(absorption)	0.638728		0.640518	0.0009	k(abs/tk ln)
0.640618	0.0009	0.640565	0.0009	0.4296	
k(trk length)	0.616589		0.640718	0.0013	k(tk ln/col)
0.640659	0.0010	0.640625	0.0009	0.5441	
rem life(col)	6.6905E+03		6.8445E+03	0.0011	k(col/abs/tk ln)
0.640612	0.0009	0.640572	0.0009		
rem life(abs)	6.6558E+03		6.8449E+03	0.0011	life(col/abs/tl)
6.8466E+03	0.0009	6.8521E+03	0.0007		
source points generated	5009				

estimator	cycle	354	ave of	304 cycles	combination
simple average	combined average		corr		
k(collision)	0.639122		0.640595	0.0010	k(col/abs)
0.640565	0.0009	0.640556	0.0009	0.8426	
k(absorption)	0.645701		0.640536	0.0009	k(abs/tk ln)
0.640619	0.0009	0.640574	0.0009	0.4287	
k(trk length)	0.635832		0.640702	0.0013	k(tk ln/col)
0.640649	0.0010	0.640618	0.0009	0.5441	
rem life(col)	6.8883E+03		6.8446E+03	0.0011	k(col/abs/tk ln)
0.640611	0.0009	0.640579	0.0009		
rem life(abs)	6.8398E+03		6.8449E+03	0.0011	life(col/abs/tl)
6.8466E+03	0.0009	6.8517E+03	0.0007		
source points generated		5074			

estimator	cycle	355	ave of	305 cycles	combination
simple average	combined average		corr		
k(collision)	0.631377		0.640565	0.0010	k(col/abs)
0.640540	0.0009	0.640532	0.0009	0.8427	
k(absorption)	0.634403		0.640515	0.0009	k(abs/tk ln)
0.640600	0.0009	0.640555	0.0009	0.4291	
k(trk length)	0.635109		0.640684	0.0013	k(tk ln/col)
0.640624	0.0010	0.640590	0.0009	0.5444	
rem life(col)	6.8779E+03		6.8447E+03	0.0011	k(col/abs/tk ln)
0.640588	0.0009	0.640558	0.0009		
rem life(abs)	6.8750E+03		6.8450E+03	0.0011	life(col/abs/tl)
6.8466E+03	0.0009	6.8517E+03	0.0007		
source points generated		4924			

estimator	cycle	356	ave of	306 cycles	combination
simple average	combined average		corr		
k(collision)	0.644728		0.640578	0.0010	k(col/abs)
0.640556	0.0009	0.640550	0.0009	0.8428	
k(absorption)	0.646347		0.640534	0.0009	k(abs/tk ln)
0.640573	0.0009	0.640553	0.0009	0.4244	
k(trk length)	0.618652		0.640612	0.0013	k(tk ln/col)
0.640595	0.0010	0.640585	0.0009	0.5402	
rem life(col)	6.6673E+03		6.8441E+03	0.0011	k(col/abs/tk ln)
0.640575	0.0009	0.640557	0.0009		
rem life(abs)	6.6873E+03		6.8445E+03	0.0011	life(col/abs/tl)
6.8461E+03	0.0009	6.8512E+03	0.0007		
source points generated		5038			

estimator	cycle	357	ave of	307 cycles	combination
simple average	combined average		corr		
k(collision)	0.655658		0.640627	0.0010	k(col/abs)
0.640591	0.0009	0.640580	0.0009	0.8425	
k(absorption)	0.647042		0.640556	0.0009	k(abs/tk ln)
0.640612	0.0009	0.640582	0.0009	0.4256	
k(trk length)	0.657984		0.640669	0.0013	k(tk ln/col)
0.640648	0.0010	0.640636	0.0009	0.5427	
rem life(col)	6.6302E+03		6.8434E+03	0.0011	k(col/abs/tk ln)
0.640617	0.0009	0.640589	0.0009		
rem life(abs)	6.6554E+03		6.8439E+03	0.0011	life(col/abs/tl)
6.8456E+03	0.0009	6.8510E+03	0.0007		

source points generated 5057

estimator	cycle	358	ave of	308 cycles	combination
simple average	combined average		corr		
k(collision)	0.635931		0.640612	0.0010	k(col/abs)
0.640580	0.0009	0.640570	0.0009	0.8424	
k(absorption)	0.638220		0.640548	0.0009	k(abs/tk ln)
0.640592	0.0009	0.640569	0.0009	0.4257	
k(trk length)	0.630855		0.640637	0.0013	k(tk ln/col)
0.640624	0.0010	0.640617	0.0009	0.5431	
rem life(col)	6.7812E+03		6.8432E+03	0.0011	k(col/abs/tk ln)
0.640599	0.0009	0.640575	0.0009		
rem life(abs)	6.7836E+03		6.8437E+03	0.0011	life(col/abs/tl)
6.8454E+03	0.0009	6.8510E+03	0.0007		

source points generated 4829

estimator	cycle	359	ave of	309 cycles	combination
simple average	combined average		corr		
k(collision)	0.646572		0.640631	0.0010	k(col/abs)
0.640612	0.0009	0.640606	0.0009	0.8419	
k(absorption)	0.654484		0.640593	0.0009	k(abs/tk ln)
0.640667	0.0009	0.640626	0.0009	0.4308	
k(trk length)	0.672656		0.640740	0.0013	k(tk ln/col)
0.640686	0.0010	0.640654	0.0009	0.5425	
rem life(col)	6.5157E+03		6.8422E+03	0.0011	k(col/abs/tk ln)
0.640655	0.0009	0.640628	0.0009		
rem life(abs)	6.5091E+03		6.8426E+03	0.0011	life(col/abs/tl)
6.8444E+03	0.0009	6.8503E+03	0.0007		

source points generated 5128

estimator	cycle	360	ave of	310 cycles	combination
simple average	combined average		corr		
k(collision)	0.635652		0.640615	0.0010	k(col/abs)
0.640605	0.0009	0.640601	0.0009	0.8416	
k(absorption)	0.640907		0.640594	0.0009	k(abs/tk ln)
0.640632	0.0009	0.640611	0.0009	0.4291	
k(trk length)	0.619108		0.640671	0.0013	k(tk ln/col)
0.640643	0.0010	0.640626	0.0009	0.5425	
rem life(col)	7.0139E+03		6.8427E+03	0.0011	k(col/abs/tk ln)
0.640627	0.0009	0.640612	0.0009		
rem life(abs)	7.0170E+03		6.8432E+03	0.0011	life(col/abs/tl)
6.8449E+03	0.0009	6.8505E+03	0.0007		

source points generated 4921

estimator	cycle	361	ave of	311 cycles	combination
simple average	combined average		corr		
k(collision)	0.651194		0.640649	0.0010	k(col/abs)
0.640641	0.0009	0.640639	0.0009	0.8421	
k(absorption)	0.652640		0.640633	0.0009	k(abs/tk ln)
0.640658	0.0009	0.640644	0.0009	0.4291	
k(trk length)	0.644448		0.640683	0.0013	k(tk ln/col)
0.640666	0.0010	0.640656	0.0009	0.5425	
rem life(col)	6.8634E+03		6.8428E+03	0.0011	k(col/abs/tk ln)
0.640655	0.0009	0.640645	0.0009		

rem life(abs)	6.8711E+03	6.8433E+03	0.0011	life(col/abs/tl)
6.8449E+03	0.0009	6.8504E+03	0.0007	
source points generated	5127			

estimator	cycle	362	ave of	312 cycles	combination
simple average	combined average		corr		
k(collision)	0.626880		0.640605	0.0010	k(col/abs)
0.640590	0.0009	0.640585	0.0009	0.8430	
k(absorption)	0.622449		0.640575	0.0009	k(abs/tk ln)
0.640594	0.0009	0.640583	0.0009	0.4339	
k(trk length)	0.619001		0.640613	0.0013	k(tk ln/col)
0.640609	0.0010	0.640607	0.0009	0.5452	
rem life(col)	6.7844E+03		6.8426E+03	0.0011	k(col/abs/tk ln)
0.640598	0.0009	0.640587	0.0009		
rem life(abs)	6.7813E+03		6.8431E+03	0.0011	life(col/abs/tl)
6.8448E+03	0.0009	6.8506E+03	0.0007		
source points generated	4826				

estimator	cycle	363	ave of	313 cycles	combination
simple average	combined average		corr		
k(collision)	0.627303		0.640563	0.0009	k(col/abs)
0.640555	0.0009	0.640552	0.0009	0.8433	
k(absorption)	0.631819		0.640547	0.0009	k(abs/tk ln)
0.640594	0.0009	0.640568	0.0009	0.4315	
k(trk length)	0.649355		0.640641	0.0013	k(tk ln/col)
0.640602	0.0010	0.640579	0.0009	0.5412	
rem life(col)	6.7813E+03		6.8424E+03	0.0011	k(col/abs/tk ln)
0.640583	0.0009	0.640568	0.0009		
rem life(abs)	6.7713E+03		6.8428E+03	0.0011	life(col/abs/tl)
6.8446E+03	0.0009	6.8504E+03	0.0007		
source points generated	5015				

estimator	cycle	364	ave of	314 cycles	combination
simple average	combined average		corr		
k(collision)	0.659022		0.640621	0.0010	k(col/abs)
0.640613	0.0009	0.640610	0.0009	0.8448	
k(absorption)	0.658737		0.640605	0.0009	k(abs/tk ln)
0.640662	0.0009	0.640630	0.0009	0.4370	
k(trk length)	0.665485		0.640720	0.0013	k(tk ln/col)
0.640671	0.0010	0.640641	0.0009	0.5455	
rem life(col)	6.8820E+03		6.8425E+03	0.0011	k(col/abs/tk ln)
0.640649	0.0009	0.640630	0.0009		
rem life(abs)	6.8717E+03		6.8429E+03	0.0011	life(col/abs/tl)
6.8447E+03	0.0009	6.8505E+03	0.0007		
source points generated	5277				

estimator	cycle	365	ave of	315 cycles	combination
simple average	combined average		corr		
k(collision)	0.637785		0.640612	0.0009	k(col/abs)
0.640593	0.0009	0.640587	0.0009	0.8443	
k(absorption)	0.630757		0.640573	0.0009	k(abs/tk ln)
0.640621	0.0009	0.640594	0.0009	0.4389	
k(trk length)	0.624484		0.640669	0.0013	k(tk ln/col)
0.640641	0.0010	0.640624	0.0009	0.5453	

rem life(col)	6.6801E+03	6.8420E+03	0.0011	k(col/abs/tk ln)
0.640618	0.0009	0.640598	0.0009	
rem life(abs)	6.6938E+03	6.8425E+03	0.0011	life(col/abs/tl)
6.8444E+03	0.0009	6.8506E+03	0.0007	
source points generated	4857			

estimator	cycle	366	ave of	316 cycles	combination
simple average	combined average		corr		
k(collision)	0.662915		0.640683	0.0010	k(col/abs)
0.640668	0.0009	0.640663	0.0009	0.8466	
k(absorption)	0.665540		0.640652	0.0009	k(abs/tk ln)
0.640655	0.0009	0.640654	0.0009	0.4330	
k(trk length)	0.637196		0.640658	0.0013	k(tk ln/col)
0.640670	0.0010	0.640678	0.0009	0.5400	
rem life(col)	6.7812E+03		6.8418E+03	0.0011	k(col/abs/tk ln)
0.640664	0.0009	0.640659	0.0009		
rem life(abs)	6.7470E+03		6.8422E+03	0.0011	life(col/abs/tl)
6.8441E+03	0.0009	6.8502E+03	0.0007		
source points generated	5196				

estimator	cycle	367	ave of	317 cycles	combination
simple average	combined average		corr		
k(collision)	0.640273		0.640682	0.0009	k(col/abs)
0.640671	0.0009	0.640668	0.0009	0.8465	
k(absorption)	0.642913		0.640660	0.0009	k(abs/tk ln)
0.640633	0.0009	0.640647	0.0009	0.4314	
k(trk length)	0.624648		0.640607	0.0013	k(tk ln/col)
0.640644	0.0010	0.640666	0.0009	0.5391	
rem life(col)	6.9747E+03		6.8422E+03	0.0011	k(col/abs/tk ln)
0.640649	0.0009	0.640653	0.0009		
rem life(abs)	6.9556E+03		6.8425E+03	0.0011	life(col/abs/tl)
6.8443E+03	0.0009	6.8498E+03	0.0007		
source points generated	4791				

estimator	cycle	368	ave of	318 cycles	combination
simple average	combined average		corr		
k(collision)	0.643113		0.640689	0.0009	k(col/abs)
0.640673	0.0009	0.640669	0.0009	0.8463	
k(absorption)	0.639948		0.640657	0.0009	k(abs/tk ln)
0.640668	0.0009	0.640662	0.0009	0.4293	
k(trk length)	0.663387		0.640679	0.0013	k(tk ln/col)
0.640684	0.0010	0.640687	0.0009	0.5380	
rem life(col)	6.5732E+03		6.8414E+03	0.0011	k(col/abs/tk ln)
0.640675	0.0009	0.640667	0.0009		
rem life(abs)	6.5637E+03		6.8416E+03	0.0011	life(col/abs/tl)
6.8436E+03	0.0009	6.8496E+03	0.0007		
source points generated	5045				

estimator	cycle	369	ave of	319 cycles	combination
simple average	combined average		corr		
k(collision)	0.650707		0.640721	0.0009	k(col/abs)
0.640715	0.0009	0.640713	0.0009	0.8465	
k(absorption)	0.656975		0.640708	0.0009	k(abs/tk ln)
0.640698	0.0009	0.640703	0.0009	0.4285	

k(trk length)	0.643290	0.640687	0.0013	k(tk ln/col)
0.640704	0.0010	0.640714	0.0009	0.5378
rem life(col)	6.8625E+03	6.8415E+03	0.0011	k(col/abs/tk ln)
0.640705	0.0009	0.640706	0.0009	
rem life(abs)	6.8361E+03	6.8416E+03	0.0011	life(col/abs/tl)
6.8437E+03	0.0009	6.8498E+03	0.0007	
source points generated	5064			

estimator	cycle	370	ave of	320 cycles	combination
simple average	combined average		corr		
k(collision)	0.657152		0.640772	0.0009	k(col/abs)
0.640761	0.0009	0.640758	0.0009	0.8473	
k(absorption)	0.653834		0.640749	0.0009	k(abs/tk ln)
0.640726	0.0009	0.640738	0.0009	0.4287	
k(trk length)	0.645564		0.640702	0.0013	k(tk ln/col)
0.640737	0.0010	0.640757	0.0009	0.5374	
rem life(col)	6.7537E+03		6.8412E+03	0.0011	k(col/abs/tk ln)
0.640741	0.0009	0.640744	0.0009		
rem life(abs)	6.7441E+03		6.8413E+03	0.0011	life(col/abs/tl)
6.8433E+03	0.0009	6.8494E+03	0.0007		
source points generated	5076				

estimator	cycle	371	ave of	321 cycles	combination
simple average	combined average		corr		
k(collision)	0.634180		0.640752	0.0009	k(col/abs)
0.640750	0.0009	0.640750	0.0009	0.8469	
k(absorption)	0.640419		0.640748	0.0009	k(abs/tk ln)
0.640710	0.0009	0.640731	0.0009	0.4285	
k(trk length)	0.630893		0.640672	0.0013	k(tk ln/col)
0.640712	0.0010	0.640735	0.0009	0.5380	
rem life(col)	6.7485E+03		6.8409E+03	0.0011	k(col/abs/tk ln)
0.640724	0.0009	0.640733	0.0009		
rem life(abs)	6.7447E+03		6.8410E+03	0.0011	life(col/abs/tl)
6.8431E+03	0.0009	6.8495E+03	0.0007		
source points generated	4796				

estimator	cycle	372	ave of	322 cycles	combination
simple average	combined average		corr		
k(collision)	0.640510		0.640751	0.0009	k(col/abs)
0.640753	0.0009	0.640754	0.0009	0.8468	
k(absorption)	0.643143		0.640756	0.0009	k(abs/tk ln)
0.640719	0.0009	0.640739	0.0009	0.4286	
k(trk length)	0.644073		0.640682	0.0013	k(tk ln/col)
0.640717	0.0010	0.640736	0.0009	0.5379	
rem life(col)	6.8201E+03		6.8408E+03	0.0011	k(col/abs/tk ln)
0.640730	0.0009	0.640740	0.0009		
rem life(abs)	6.8099E+03		6.8409E+03	0.0011	life(col/abs/tl)
6.8431E+03	0.0009	6.8495E+03	0.0007		
source points generated	5027				

estimator	cycle	373	ave of	323 cycles	combination
simple average	combined average		corr		
k(collision)	0.641812		0.640754	0.0009	k(col/abs)
0.640744	0.0009	0.640741	0.0009	0.8459	

k(absorption)	0.633477	0.640733	0.0009	k(abs/tk ln)
0.640706	0.0009	0.640720	0.0009	0.4285
k(trk length)	0.639312	0.640678	0.0012	k(tk ln/col)
0.640716	0.0010	0.640738	0.0009	0.5379
rem life(col)	6.9040E+03	6.8410E+03	0.0011	k(col/abs/tk ln)
0.640722	0.0009	0.640726	0.0009	
rem life(abs)	6.9087E+03	6.8411E+03	0.0011	life(col/abs/tl)
6.8433E+03	0.0009	6.8498E+03	0.0007	
source points generated	5035			

estimator	cycle	374	ave of	324 cycles	combination
simple average	combined average		corr		
k(collision)	0.650964	0.640786	0.0009	k(col/abs)	
0.640775	0.0009	0.640772	0.0009	0.8464	
k(absorption)	0.650739	0.640764	0.0009	k(abs/tk ln)	
0.640734	0.0009	0.640750	0.0009	0.4293	
k(trk length)	0.648946	0.640704	0.0012	k(tk ln/col)	
0.640745	0.0010	0.640768	0.0009	0.5385	
rem life(col)	7.0937E+03	6.8418E+03	0.0011	k(col/abs/tk ln)	
0.640751	0.0009	0.640756	0.0009		
rem life(abs)	7.0522E+03	6.8418E+03	0.0011	life(col/abs/tl)	
6.8438E+03	0.0009	6.8498E+03	0.0007		
source points generated	5093				

estimator	cycle	375	ave of	325 cycles	combination
simple average	combined average		corr		
k(collision)	0.634208	0.640765	0.0009	k(col/abs)	
0.640758	0.0009	0.640756	0.0009	0.8464	
k(absorption)	0.636340	0.640751	0.0009	k(abs/tk ln)	
0.640724	0.0009	0.640738	0.0009	0.4294	
k(trk length)	0.638469	0.640697	0.0012	k(tk ln/col)	
0.640731	0.0010	0.640751	0.0009	0.5385	
rem life(col)	6.8552E+03	6.8419E+03	0.0011	k(col/abs/tk ln)	
0.640738	0.0009	0.640742	0.0008		
rem life(abs)	6.8711E+03	6.8419E+03	0.0010	life(col/abs/tl)	
6.8439E+03	0.0009	6.8496E+03	0.0007		
source points generated	4920				

estimator	cycle	376	ave of	326 cycles	combination
simple average	combined average		corr		
k(collision)	0.636365	0.640752	0.0009	k(col/abs)	
0.640737	0.0009	0.640733	0.0009	0.8463	
k(absorption)	0.631227	0.640721	0.0009	k(abs/tk ln)	
0.640710	0.0009	0.640716	0.0008	0.4287	
k(trk length)	0.641431	0.640699	0.0012	k(tk ln/col)	
0.640725	0.0010	0.640741	0.0009	0.5383	
rem life(col)	6.9852E+03	6.8423E+03	0.0011	k(col/abs/tk ln)	
0.640724	0.0009	0.640722	0.0008		
rem life(abs)	6.9998E+03	6.8424E+03	0.0010	life(col/abs/tl)	
6.8442E+03	0.0009	6.8497E+03	0.0007		
source points generated	4973				

estimator	cycle	377	ave of	327 cycles	combination
simple average	combined average		corr		

k(collision)	0.629857	0.640719	0.0009	k(col/abs)
0.640710	0.0009	0.640708	0.0009	0.8464
k(absorption)	0.634331	0.640702	0.0009	k(abs/tk ln)
0.640703	0.0009	0.640702	0.0008	0.4282
k(trk length)	0.642156	0.640703	0.0012	k(tk ln/col)
0.640711	0.0009	0.640715	0.0009	0.5371
rem life(col)	6.6795E+03	6.8418E+03	0.0011	k(col/abs/tk ln)
0.640708	0.0009	0.640705	0.0008	
rem life(abs)	6.6729E+03	6.8418E+03	0.0010	life(col/abs/tl)
6.8438E+03	0.0009	6.8496E+03	0.0007	
source points generated	4976			

estimator	cycle	378	ave of	328 cycles	combination
simple average	combined average		corr		
k(collision)	0.652098	0.640753	0.0009	k(col/abs)	
0.640751	0.0009	0.640750	0.0009	0.8469	
k(absorption)	0.655786	0.640748	0.0009	k(abs/tk ln)	
0.640746	0.0009	0.640747	0.0008	0.4304	
k(trk length)	0.653952	0.640744	0.0012	k(tk ln/col)	
0.640749	0.0009	0.640751	0.0009	0.5385	
rem life(col)	6.9027E+03	6.8420E+03	0.0010	k(col/abs/tk ln)	
0.640748	0.0009	0.640748	0.0008		
rem life(abs)	6.8720E+03	6.8419E+03	0.0010	life(col/abs/tl)	
6.8439E+03	0.0009	6.8495E+03	0.0007		
source points generated	5167				

estimator	cycle	379	ave of	329 cycles	combination
simple average	combined average		corr		
k(collision)	0.622171	0.640697	0.0009	k(col/abs)	
0.640698	0.0009	0.640698	0.0009	0.8481	
k(absorption)	0.624607	0.640699	0.0009	k(abs/tk ln)	
0.640683	0.0009	0.640692	0.0008	0.4351	
k(trk length)	0.615795	0.640668	0.0012	k(tk ln/col)	
0.640682	0.0010	0.640691	0.0009	0.5427	
rem life(col)	6.9710E+03	6.8424E+03	0.0010	k(col/abs/tk ln)	
0.640688	0.0009	0.640692	0.0008		
rem life(abs)	7.0007E+03	6.8424E+03	0.0010	life(col/abs/tl)	
6.8443E+03	0.0009	6.8497E+03	0.0007		
source points generated	4762				

estimator	cycle	380	ave of	330 cycles	combination
simple average	combined average		corr		
k(collision)	0.649355	0.640723	0.0009	k(col/abs)	
0.640717	0.0009	0.640715	0.0009	0.8480	
k(absorption)	0.644805	0.640711	0.0009	k(abs/tk ln)	
0.640708	0.0009	0.640710	0.0008	0.4355	
k(trk length)	0.652611	0.640704	0.0012	k(tk ln/col)	
0.640714	0.0009	0.640719	0.0009	0.5436	
rem life(col)	6.8285E+03	6.8423E+03	0.0010	k(col/abs/tk ln)	
0.640713	0.0009	0.640712	0.0008		
rem life(abs)	6.8066E+03	6.8423E+03	0.0010	life(col/abs/tl)	
6.8442E+03	0.0009	6.8499E+03	0.0007		
source points generated	5208				

estimator	cycle	381	ave of	331 cycles	combination
simple average	combined average		corr		
k(collision)	0.658174		0.640776	0.0009	k(col/abs)
0.640782	0.0009	0.640784	0.0009	0.8489	
k(absorption)	0.666345		0.640789	0.0009	k(abs/tk ln)
0.640762	0.0009	0.640776	0.0009	0.4366	
k(trk length)	0.651190		0.640736	0.0012	k(tk ln/col)
0.640756	0.0009	0.640767	0.0009	0.5446	
rem life(col)	6.8552E+03		6.8424E+03	0.0010	k(col/abs/tk ln)
0.640767	0.0009	0.640775	0.0008		
rem life(abs)	6.8597E+03		6.8424E+03	0.0010	life(col/abs/tl)
6.8443E+03	0.0009	6.8499E+03	0.0007		
source points generated 5054					

estimator	cycle	382	ave of	332 cycles	combination
simple average	combined average		corr		
k(collision)	0.643441		0.640784	0.0009	k(col/abs)
0.640783	0.0009	0.640783	0.0009	0.8486	
k(absorption)	0.638499		0.640782	0.0009	k(abs/tk ln)
0.640774	0.0009	0.640778	0.0008	0.4358	
k(trk length)	0.651053		0.640767	0.0012	k(tk ln/col)
0.640775	0.0009	0.640780	0.0009	0.5447	
rem life(col)	6.7437E+03		6.8421E+03	0.0010	k(col/abs/tk ln)
0.640777	0.0009	0.640779	0.0008		
rem life(abs)	6.7639E+03		6.8421E+03	0.0010	life(col/abs/tl)
6.8440E+03	0.0009	6.8496E+03	0.0007		
source points generated 4869					

estimator	cycle	383	ave of	333 cycles	combination
simple average	combined average		corr		
k(collision)	0.637636		0.640774	0.0009	k(col/abs)
0.640782	0.0009	0.640784	0.0009	0.8482	
k(absorption)	0.643508		0.640790	0.0009	k(abs/tk ln)
0.640769	0.0009	0.640780	0.0008	0.4353	
k(trk length)	0.634766		0.640749	0.0012	k(tk ln/col)
0.640762	0.0009	0.640769	0.0009	0.5448	
rem life(col)	6.8828E+03		6.8422E+03	0.0010	k(col/abs/tk ln)
0.640771	0.0009	0.640779	0.0008		
rem life(abs)	6.8458E+03		6.8421E+03	0.0010	life(col/abs/tl)
6.8441E+03	0.0009	6.8497E+03	0.0007		
source points generated 4955					

estimator	cycle	384	ave of	334 cycles	combination
simple average	combined average		corr		
k(collision)	0.617407		0.640704	0.0009	k(col/abs)
0.640712	0.0009	0.640714	0.0009	0.8504	
k(absorption)	0.617305		0.640720	0.0009	k(abs/tk ln)
0.640693	0.0009	0.640707	0.0009	0.4425	
k(trk length)	0.613230		0.640666	0.0012	k(tk ln/col)
0.640685	0.0009	0.640696	0.0009	0.5504	
rem life(col)	7.0763E+03		6.8429E+03	0.0010	k(col/abs/tk ln)
0.640697	0.0009	0.640706	0.0008		
rem life(abs)	7.0781E+03		6.8428E+03	0.0010	life(col/abs/tl)
6.8447E+03	0.0009	6.8503E+03	0.0007		

source points generated 4816

estimator	cycle	385	ave of	335 cycles	combination
simple average	combined average		corr		
k(collision)	0.649706		0.640731	0.0009	k(col/abs)
0.640730	0.0009	0.640729	0.0009	0.8501	
k(absorption)	0.643637		0.640728	0.0009	k(abs/tk ln)
0.640671	0.0009	0.640701	0.0008	0.4405	
k(trk length)	0.623095		0.640614	0.0012	k(tk ln/col)
0.640673	0.0009	0.640706	0.0009	0.5456	
rem life(col)	6.6541E+03		6.8423E+03	0.0010	k(col/abs/tk ln)
0.640691	0.0009	0.640706	0.0008		
rem life(abs)	6.6990E+03		6.8424E+03	0.0010	life(col/abs/tl)
6.8443E+03	0.0009	6.8501E+03	0.0007		

source points generated 5234

estimator	cycle	386	ave of	336 cycles	combination
simple average	combined average		corr		
k(collision)	0.629733		0.640698	0.0009	k(col/abs)
0.640703	0.0009	0.640704	0.0009	0.8502	
k(absorption)	0.633882		0.640708	0.0009	k(abs/tk ln)
0.640638	0.0009	0.640675	0.0008	0.4415	
k(trk length)	0.624954		0.640567	0.0012	k(tk ln/col)
0.640633	0.0009	0.640671	0.0009	0.5471	
rem life(col)	6.9258E+03		6.8426E+03	0.0010	k(col/abs/tk ln)
0.640658	0.0009	0.640678	0.0008		
rem life(abs)	6.9008E+03		6.8426E+03	0.0010	life(col/abs/tl)
6.8445E+03	0.0009	6.8503E+03	0.0007		

source points generated 4821

estimator	cycle	387	ave of	337 cycles	combination
simple average	combined average		corr		
k(collision)	0.631059		0.640670	0.0009	k(col/abs)
0.640668	0.0009	0.640668	0.0009	0.8505	
k(absorption)	0.626867		0.640667	0.0009	k(abs/tk ln)
0.640601	0.0009	0.640636	0.0008	0.4430	
k(trk length)	0.629576		0.640535	0.0012	k(tk ln/col)
0.640602	0.0009	0.640642	0.0009	0.5480	
rem life(col)	6.9253E+03		6.8428E+03	0.0010	k(col/abs/tk ln)
0.640624	0.0009	0.640641	0.0008		
rem life(abs)	6.8778E+03		6.8427E+03	0.0010	life(col/abs/tl)
6.8447E+03	0.0009	6.8504E+03	0.0007		

source points generated 5005

estimator	cycle	388	ave of	338 cycles	combination
simple average	combined average		corr		
k(collision)	0.616527		0.640598	0.0009	k(col/abs)
0.640610	0.0009	0.640613	0.0009	0.8513	
k(absorption)	0.625210		0.640621	0.0009	k(abs/tk ln)
0.640547	0.0009	0.640587	0.0008	0.4465	
k(trk length)	0.619820		0.640473	0.0012	k(tk ln/col)
0.640536	0.0009	0.640572	0.0009	0.5518	
rem life(col)	6.9094E+03		6.8430E+03	0.0010	k(col/abs/tk ln)
0.640564	0.0009	0.640587	0.0008		

rem life(abs) 6.8832E+03 6.8428E+03 0.0010 life(col/abs/tl)
6.8449E+03 0.0009 6.8506E+03 0.0007
source points generated 4892

estimator	cycle	389	ave of	339 cycles	combination
simple average	combined average		corr		
k(collision)	0.638937		0.640594	0.0009	k(col/abs)
0.640602	0.0009	0.640604	0.0009	0.8513	
k(absorption)	0.637077		0.640611	0.0009	k(abs/tk ln)
0.640547	0.0009	0.640581	0.0008	0.4462	
k(trk length)	0.643519		0.640482	0.0012	k(tk ln/col)
0.640538	0.0009	0.640570	0.0009	0.5516	
rem life(col)	7.0107E+03		6.8435E+03	0.0010	k(col/abs/tk ln)
0.640562	0.0009	0.640582	0.0008		
rem life(abs)	7.0145E+03		6.8433E+03	0.0010	life(col/abs/tl)
6.8453E+03	0.0009	6.8510E+03	0.0007		
source points generated 5249					

estimator	cycle	390	ave of	340 cycles	combination
simple average	combined average		corr		
k(collision)	0.643212		0.640601	0.0009	k(col/abs)
0.640613	0.0009	0.640616	0.0009	0.8513	
k(absorption)	0.645329		0.640625	0.0009	k(abs/tk ln)
0.640553	0.0009	0.640591	0.0008	0.4460	
k(trk length)	0.640263		0.640482	0.0012	k(tk ln/col)
0.640542	0.0009	0.640576	0.0009	0.5515	
rem life(col)	7.1202E+03		6.8443E+03	0.0010	k(col/abs/tk ln)
0.640569	0.0009	0.640592	0.0008		
rem life(abs)	7.0929E+03		6.8440E+03	0.0010	life(col/abs/tl)
6.8459E+03	0.0009	6.8512E+03	0.0007		
source points generated 5033					

estimator	cycle	391	ave of	341 cycles	combination
simple average	combined average		corr		
k(collision)	0.648107		0.640623	0.0009	k(col/abs)
0.640636	0.0009	0.640640	0.0009	0.8515	
k(absorption)	0.648943		0.640649	0.0009	k(abs/tk ln)
0.640576	0.0009	0.640615	0.0008	0.4466	
k(trk length)	0.647751		0.640503	0.0012	k(tk ln/col)
0.640563	0.0009	0.640598	0.0009	0.5520	
rem life(col)	6.7768E+03		6.8441E+03	0.0010	k(col/abs/tk ln)
0.640592	0.0009	0.640615	0.0008		
rem life(abs)	6.7505E+03		6.8438E+03	0.0010	life(col/abs/tl)
6.8456E+03	0.0009	6.8507E+03	0.0007		
source points generated 5018					

estimator	cycle	392	ave of	342 cycles	combination
simple average	combined average		corr		
k(collision)	0.647548		0.640644	0.0009	k(col/abs)
0.640653	0.0009	0.640655	0.0009	0.8516	
k(absorption)	0.645135		0.640662	0.0009	k(abs/tk ln)
0.640596	0.0009	0.640631	0.0008	0.4471	
k(trk length)	0.649428		0.640529	0.0012	k(tk ln/col)
0.640586	0.0009	0.640619	0.0009	0.5525	

rem life(col)	6.7766E+03	6.8439E+03	0.0010	k(col/abs/tk ln)
0.640612	0.0009	0.640632	0.0008	
rem life(abs)	6.7775E+03	6.8436E+03	0.0010	life(col/abs/tl)
6.8456E+03	0.0009	6.8510E+03	0.0007	
source points generated	4942			

estimator	cycle	393	ave of	343 cycles	combination
simple average	combined average		corr		
k(collision)	0.648704		0.640667	0.0009	k(col/abs)
0.640676	0.0009	0.640678	0.0009	0.8518	
k(absorption)	0.648260		0.640684	0.0009	k(abs/tk ln)
0.640617	0.0009	0.640653	0.0008	0.4476	
k(trk length)	0.647499		0.640550	0.0012	k(tk ln/col)
0.640608	0.0009	0.640642	0.0009	0.5529	
rem life(col)	6.8530E+03		6.8440E+03	0.0010	k(col/abs/tk ln)
0.640634	0.0009	0.640654	0.0008		
rem life(abs)	6.8463E+03		6.8436E+03	0.0010	life(col/abs/tl)
6.8456E+03	0.0009	6.8512E+03	0.0007		
source points generated	5012				

estimator	cycle	394	ave of	344 cycles	combination
simple average	combined average		corr		
k(collision)	0.631930		0.640642	0.0009	k(col/abs)
0.640647	0.0009	0.640648	0.0009	0.8521	
k(absorption)	0.629597		0.640652	0.0009	k(abs/tk ln)
0.640619	0.0009	0.640636	0.0008	0.4437	
k(trk length)	0.652741		0.640585	0.0012	k(tk ln/col)
0.640613	0.0009	0.640630	0.0009	0.5498	
rem life(col)	6.8606E+03		6.8440E+03	0.0010	k(col/abs/tk ln)
0.640626	0.0009	0.640636	0.0008		
rem life(abs)	6.8737E+03		6.8437E+03	0.0010	life(col/abs/tl)
6.8457E+03	0.0009	6.8512E+03	0.0007		
source points generated	4907				

estimator	cycle	395	ave of	345 cycles	combination
simple average	combined average		corr		
k(collision)	0.608778		0.640549	0.0009	k(col/abs)
0.640562	0.0009	0.640566	0.0009	0.8550	
k(absorption)	0.614335		0.640576	0.0009	k(abs/tk ln)
0.640572	0.0009	0.640574	0.0008	0.4424	
k(trk length)	0.634973		0.640569	0.0012	k(tk ln/col)
0.640559	0.0009	0.640554	0.0009	0.5462	
rem life(col)	6.9608E+03		6.8443E+03	0.0010	k(col/abs/tk ln)
0.640565	0.0009	0.640570	0.0008		
rem life(abs)	6.9853E+03		6.8441E+03	0.0010	life(col/abs/tl)
6.8461E+03	0.0009	6.8517E+03	0.0007		
source points generated	4770				

estimator	cycle	396	ave of	346 cycles	combination
simple average	combined average		corr		
k(collision)	0.638557		0.640544	0.0009	k(col/abs)
0.640558	0.0009	0.640562	0.0009	0.8550	
k(absorption)	0.639557		0.640573	0.0009	k(abs/tk ln)
0.640597	0.0009	0.640584	0.0008	0.4411	

k(trk length)	0.658505	0.640621	0.0012	k(tk ln/col)
0.640582	0.0009	0.640561	0.0009	0.5443
rem life(col)	6.6398E+03	6.8438E+03	0.0010	k(col/abs/tk ln)
0.640579	0.0009	0.640578	0.0008	
rem life(abs)	6.6542E+03	6.8435E+03	0.0010	life(col/abs/tl)
6.8457E+03	0.0009	6.8516E+03	0.0007	
source points generated	5261			

estimator	cycle	397	ave of	347 cycles	combination
simple average	combined average		corr		
k(collision)	0.643122		0.640551	0.0009	k(col/abs)
0.640565	0.0009	0.640569	0.0009	0.8550	
k(absorption)	0.642717		0.640579	0.0009	k(abs/tk ln)
0.640613	0.0009	0.640595	0.0008	0.4412	
k(trk length)	0.649543		0.640646	0.0012	k(tk ln/col)
0.640599	0.0009	0.640572	0.0009	0.5444	
rem life(col)	6.9333E+03		6.8440E+03	0.0010	k(col/abs/tk ln)
0.640592	0.0009	0.640589	0.0008		
rem life(abs)	6.9089E+03		6.8437E+03	0.0010	life(col/abs/tl)
6.8459E+03	0.0009	6.8517E+03	0.0007		
source points generated	5045				

estimator	cycle	398	ave of	348 cycles	combination
simple average	combined average		corr		
k(collision)	0.626453		0.640510	0.0009	k(col/abs)
0.640526	0.0009	0.640530	0.0009	0.8557	
k(absorption)	0.627443		0.640541	0.0009	k(abs/tk ln)
0.640611	0.0009	0.640575	0.0008	0.4366	
k(trk length)	0.652929		0.640682	0.0012	k(tk ln/col)
0.640596	0.0009	0.640550	0.0009	0.5393	
rem life(col)	6.8819E+03		6.8441E+03	0.0010	k(col/abs/tk ln)
0.640578	0.0008	0.640567	0.0008		
rem life(abs)	6.8832E+03		6.8438E+03	0.0010	life(col/abs/tl)
6.8460E+03	0.0009	6.8519E+03	0.0007		
source points generated	4866				

estimator	cycle	399	ave of	349 cycles	combination
simple average	combined average		corr		
k(collision)	0.662989		0.640575	0.0009	k(col/abs)
0.640586	0.0009	0.640589	0.0009	0.8572	
k(absorption)	0.659835		0.640596	0.0009	k(abs/tk ln)
0.640647	0.0009	0.640621	0.0008	0.4363	
k(trk length)	0.646030		0.640697	0.0012	k(tk ln/col)
0.640636	0.0009	0.640604	0.0009	0.5381	
rem life(col)	6.7617E+03		6.8439E+03	0.0010	k(col/abs/tk ln)
0.640623	0.0008	0.640616	0.0008		
rem life(abs)	6.7946E+03		6.8437E+03	0.0010	life(col/abs/tl)
6.8458E+03	0.0009	6.8517E+03	0.0007		
source points generated	5339				

estimator	cycle	400	ave of	350 cycles	combination
simple average	combined average		corr		
k(collision)	0.629836		0.640544	0.0009	k(col/abs)
0.640552	0.0009	0.640554	0.0009	0.8576	

k(absorption)	0.627772	0.640560	0.0009	k(abs/tk ln)
0.640609	0.0009	0.640584	0.0008	0.4381
k(trk length)	0.627321	0.640659	0.0012	k(tk ln/col)
0.640601	0.0009	0.640571	0.0009	0.5393
rem life(col)	7.0993E+03	6.8446E+03	0.0010	k(col/abs/tk ln)
0.640588	0.0008	0.640580	0.0008	
rem life(abs)	7.1269E+03	6.8445E+03	0.0010	life(col/abs/tl)
6.8466E+03	0.0009	6.8525E+03	0.0007	
source points generated	4748			

estimator	cycle	401	ave of	351 cycles	combination
simple average	combined average			corr	
k(collision)	0.666022	0.640617	0.0009	k(col/abs)	
0.640611	0.0009	0.640609	0.0009	0.8582	
k(absorption)	0.656234	0.640605	0.0009	k(abs/tk ln)	
0.640669	0.0009	0.640636	0.0008	0.4424	
k(trk length)	0.666719	0.640733	0.0012	k(tk ln/col)	
0.640675	0.0009	0.640644	0.0009	0.5447	
rem life(col)	6.7176E+03	6.8443E+03	0.0010	k(col/abs/tk ln)	
0.640651	0.0009	0.640635	0.0008		
rem life(abs)	6.7263E+03	6.8442E+03	0.0010	life(col/abs/tl)	
6.8463E+03	0.0009	6.8523E+03	0.0007		
source points generated	5290				

estimator	cycle	402	ave of	352 cycles	combination
simple average	combined average			corr	
k(collision)	0.619127	0.640556	0.0009	k(col/abs)	
0.640556	0.0009	0.640556	0.0009	0.8593	
k(absorption)	0.623504	0.640556	0.0009	k(abs/tk ln)	
0.640607	0.0009	0.640581	0.0008	0.4471	
k(trk length)	0.614390	0.640658	0.0012	k(tk ln/col)	
0.640607	0.0009	0.640579	0.0009	0.5493	
rem life(col)	6.8645E+03	6.8443E+03	0.0010	k(col/abs/tk ln)	
0.640590	0.0009	0.640578	0.0008		
rem life(abs)	6.8272E+03	6.8441E+03	0.0010	life(col/abs/tl)	
6.8463E+03	0.0009	6.8524E+03	0.0007		
source points generated	4644				

estimator	cycle	403	ave of	353 cycles	combination
simple average	combined average			corr	
k(collision)	0.636699	0.640545	0.0009	k(col/abs)	
0.640539	0.0009	0.640537	0.0009	0.8592	
k(absorption)	0.632401	0.640533	0.0009	k(abs/tk ln)	
0.640592	0.0009	0.640561	0.0008	0.4471	
k(trk length)	0.637979	0.640651	0.0012	k(tk ln/col)	
0.640598	0.0009	0.640569	0.0009	0.5493	
rem life(col)	6.9262E+03	6.8445E+03	0.0010	k(col/abs/tk ln)	
0.640576	0.0009	0.640560	0.0008		
rem life(abs)	6.9407E+03	6.8444E+03	0.0010	life(col/abs/tl)	
6.8465E+03	0.0009	6.8524E+03	0.0007		
source points generated	5131				

estimator	cycle	404	ave of	354 cycles	combination
simple average	combined average			corr	

k(collision)	0.656845	0.640591	0.0009	k(col/abs)
0.640583	0.0009	0.640580	0.0009	0.8600
k(absorption)	0.655331	0.640575	0.0009	k(abs/tk ln)
0.640664	0.0009	0.640617	0.0008	0.4518
k(trk length)	0.677254	0.640754	0.0012	k(tk ln/col)
0.640672	0.0009	0.640627	0.0009	0.5532
rem life(col)	6.9275E+03	6.8448E+03	0.0010	k(col/abs/tk ln)
0.640640	0.0009	0.640615	0.0008	
rem life(abs)	6.9368E+03	6.8447E+03	0.0010	life(col/abs/tl)
6.8467E+03	0.0009	6.8524E+03	0.0007	
source points generated	5209			

estimator	cycle	405	ave of	355 cycles	combination
simple average	combined average		corr		
k(collision)	0.654988	0.640631	0.0009	k(col/abs)	
0.640620	0.0009	0.640616	0.0009	0.8606	
k(absorption)	0.652400	0.640608	0.0009	k(abs/tk ln)	
0.640695	0.0009	0.640649	0.0008	0.4530	
k(trk length)	0.650952	0.640783	0.0012	k(tk ln/col)	
0.640707	0.0009	0.640665	0.0009	0.5541	
rem life(col)	6.8742E+03	6.8449E+03	0.0010	k(col/abs/tk ln)	
0.640674	0.0009	0.640648	0.0008		
rem life(abs)	6.8807E+03	6.8448E+03	0.0010	life(col/abs/tl)	
6.8467E+03	0.0009	6.8521E+03	0.0007		
source points generated	4991				

estimator	cycle	406	ave of	356 cycles	combination
simple average	combined average		corr		
k(collision)	0.642628	0.640637	0.0009	k(col/abs)	
0.640631	0.0009	0.640629	0.0009	0.8604	
k(absorption)	0.646690	0.640625	0.0009	k(abs/tk ln)	
0.640695	0.0009	0.640658	0.0008	0.4519	
k(trk length)	0.634188	0.640764	0.0012	k(tk ln/col)	
0.640701	0.0009	0.640666	0.0009	0.5537	
rem life(col)	6.6472E+03	6.8443E+03	0.0010	k(col/abs/tk ln)	
0.640675	0.0009	0.640656	0.0008		
rem life(abs)	6.6470E+03	6.8442E+03	0.0010	life(col/abs/tl)	
6.8461E+03	0.0009	6.8515E+03	0.0007		
source points generated	4877				

estimator	cycle	407	ave of	357 cycles	combination
simple average	combined average		corr		
k(collision)	0.655428	0.640678	0.0009	k(col/abs)	
0.640667	0.0009	0.640663	0.0009	0.8609	
k(absorption)	0.651799	0.640656	0.0009	k(abs/tk ln)	
0.640686	0.0009	0.640671	0.0008	0.4468	
k(trk length)	0.623736	0.640716	0.0012	k(tk ln/col)	
0.640697	0.0009	0.640687	0.0009	0.5468	
rem life(col)	6.8370E+03	6.8443E+03	0.0010	k(col/abs/tk ln)	
0.640684	0.0009	0.640672	0.0008		
rem life(abs)	6.8429E+03	6.8442E+03	0.0010	life(col/abs/tl)	
6.8461E+03	0.0009	6.8514E+03	0.0007		
source points generated	5046				

estimator	cycle	408	ave of	358 cycles	combination
simple average	combined average		corr		
k(collision)	0.644594		0.640689	0.0009	k(col/abs)
0.640679	0.0009	0.640675	0.0009	0.8609	
k(absorption)	0.644869		0.640668	0.0009	k(abs/tk ln)
0.640709	0.0009	0.640687	0.0008	0.4472	
k(trk length)	0.652694		0.640750	0.0012	k(tk ln/col)
0.640720	0.0009	0.640703	0.0009	0.5470	
rem life(col)	6.7563E+03		6.8440E+03	0.0010	k(col/abs/tk ln)
0.640702	0.0008	0.640688	0.0008		
rem life(abs)	6.7502E+03		6.8439E+03	0.0010	life(col/abs/tl)
6.8457E+03	0.0009	6.8508E+03	0.0007		
source points generated 4891					

estimator	cycle	409	ave of	359 cycles	combination
simple average	combined average		corr		
k(collision)	0.646768		0.640706	0.0009	k(col/abs)
0.640687	0.0009	0.640680	0.0009	0.8605	
k(absorption)	0.640550		0.640668	0.0009	k(abs/tk ln)
0.640721	0.0009	0.640693	0.0008	0.4469	
k(trk length)	0.649174		0.640773	0.0012	k(tk ln/col)
0.640740	0.0009	0.640722	0.0009	0.5474	
rem life(col)	6.9200E+03		6.8443E+03	0.0010	k(col/abs/tk ln)
0.640716	0.0008	0.640695	0.0008		
rem life(abs)	6.9336E+03		6.8442E+03	0.0010	life(col/abs/tl)
6.8459E+03	0.0009	6.8508E+03	0.0007		
source points generated 5011					

estimator	cycle	410	ave of	360 cycles	combination
simple average	combined average		corr		
k(collision)	0.637385		0.640697	0.0009	k(col/abs)
0.640689	0.0009	0.640686	0.0009	0.8598	
k(absorption)	0.645183		0.640680	0.0009	k(abs/tk ln)
0.640713	0.0009	0.640696	0.0008	0.4457	
k(trk length)	0.631053		0.640746	0.0012	k(tk ln/col)
0.640722	0.0009	0.640708	0.0009	0.5475	
rem life(col)	6.9497E+03		6.8445E+03	0.0010	k(col/abs/tk ln)
0.640708	0.0008	0.640697	0.0008		
rem life(abs)	6.9414E+03		6.8445E+03	0.0010	life(col/abs/tl)
6.8461E+03	0.0009	6.8508E+03	0.0007		
source points generated 4906					

estimator	cycle	411	ave of	361 cycles	combination
simple average	combined average		corr		
k(collision)	0.632666		0.640675	0.0009	k(col/abs)
0.640670	0.0009	0.640668	0.0009	0.8600	
k(absorption)	0.635145		0.640665	0.0009	k(abs/tk ln)
0.640724	0.0009	0.640693	0.0008	0.4437	
k(trk length)	0.653935		0.640783	0.0012	k(tk ln/col)
0.640729	0.0009	0.640700	0.0009	0.5447	
rem life(col)	6.8741E+03		6.8446E+03	0.0010	k(col/abs/tk ln)
0.640708	0.0008	0.640692	0.0008		
rem life(abs)	6.8742E+03		6.8445E+03	0.0010	life(col/abs/tl)
6.8462E+03	0.0009	6.8509E+03	0.0007		

source points generated 4937

estimator	cycle	412	ave of	362 cycles	combination
simple average	combined average			corr	
k(collision)	0.648898		0.640698	0.0009	k(col/abs)
0.640685	0.0009	0.640681	0.0008	0.8598	
k(absorption)	0.643505		0.640673	0.0009	k(abs/tk ln)
0.640752	0.0009	0.640710	0.0008	0.4437	
k(trk length)	0.658147		0.640831	0.0012	k(tk ln/col)
0.640764	0.0009	0.640728	0.0009	0.5456	
rem life(col)	6.8157E+03		6.8445E+03	0.0010	k(col/abs/tk ln)
0.640734	0.0008	0.640710	0.0008		
rem life(abs)	6.8206E+03		6.8445E+03	0.0010	life(col/abs/tl)
6.8462E+03	0.0009	6.8510E+03	0.0007		
source points generated		5118			

estimator	cycle	413	ave of	363 cycles	combination
simple average	combined average			corr	
k(collision)	0.663554		0.640760	0.0009	k(col/abs)
0.640741	0.0009	0.640734	0.0009	0.8609	
k(absorption)	0.658460		0.640722	0.0009	k(abs/tk ln)
0.640793	0.0009	0.640756	0.0008	0.4454	
k(trk length)	0.653011		0.640864	0.0012	k(tk ln/col)
0.640812	0.0009	0.640785	0.0009	0.5467	
rem life(col)	6.7663E+03		6.8443E+03	0.0010	k(col/abs/tk ln)
0.640782	0.0008	0.640757	0.0008		
rem life(abs)	6.7665E+03		6.8443E+03	0.0010	life(col/abs/tl)
6.8460E+03	0.0009	6.8511E+03	0.0007		
source points generated		5099			

estimator	cycle	414	ave of	364 cycles	combination
simple average	combined average			corr	
k(collision)	0.650959		0.640788	0.0009	k(col/abs)
0.640765	0.0009	0.640756	0.0008	0.8611	
k(absorption)	0.647717		0.640741	0.0009	k(abs/tk ln)
0.640840	0.0009	0.640787	0.0008	0.4464	
k(trk length)	0.667798		0.640938	0.0012	k(tk ln/col)
0.640863	0.0009	0.640823	0.0009	0.5482	
rem life(col)	6.7396E+03		6.8440E+03	0.0010	k(col/abs/tk ln)
0.640823	0.0008	0.640789	0.0008		
rem life(abs)	6.7450E+03		6.8440E+03	0.0010	life(col/abs/tl)
6.8458E+03	0.0009	6.8510E+03	0.0007		
source points generated		4867			

estimator	cycle	415	ave of	365 cycles	combination
simple average	combined average			corr	
k(collision)	0.634530		0.640771	0.0009	k(col/abs)
0.640746	0.0009	0.640737	0.0008	0.8612	
k(absorption)	0.633629		0.640722	0.0009	k(abs/tk ln)
0.640819	0.0009	0.640767	0.0008	0.4470	
k(trk length)	0.632729		0.640916	0.0012	k(tk ln/col)
0.640844	0.0009	0.640804	0.0009	0.5486	
rem life(col)	6.7768E+03		6.8439E+03	0.0010	k(col/abs/tk ln)
0.640803	0.0008	0.640769	0.0008		

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rem life(abs) 6.7958E+03 6.8439E+03 0.0010 life(col/abs/tl)
6.8458E+03 0.0009 6.8512E+03 0.0007
source points generated 4868

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estimator cycle 416 ave of 366 cycles combination
simple average combined average corr
k(collision) 0.645285 0.640784 0.0009 k(col/abs)
0.640758 0.0008 0.640748 0.0008 0.8613
k(absorption) 0.644699 0.640732 0.0009 k(abs/tk ln)
0.640805 0.0009 0.640766 0.0008 0.4454
k(trk length) 0.627113 0.640878 0.0012 k(tk ln/col)
0.640831 0.0009 0.640805 0.0009 0.5467
rem life(col) 6.7329E+03 6.8436E+03 0.0010 k(col/abs/tk ln)
0.640798 0.0008 0.640770 0.0008
rem life(abs) 6.7274E+03 6.8435E+03 0.0010 life(col/abs/tl)
6.8455E+03 0.0009 6.8511E+03 0.0007
source points generated 5112

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estimator cycle 417 ave of 367 cycles combination
simple average combined average corr
k(collision) 0.633333 0.640763 0.0009 k(col/abs)
0.640729 0.0008 0.640716 0.0008 0.8611
k(absorption) 0.626901 0.640695 0.0009 k(abs/tk ln)
0.640774 0.0009 0.640732 0.0008 0.4464
k(trk length) 0.631521 0.640853 0.0012 k(tk ln/col)
0.640808 0.0009 0.640784 0.0009 0.5472
rem life(col) 6.9897E+03 6.8440E+03 0.0010 k(col/abs/tk ln)
0.640770 0.0008 0.640737 0.0008
rem life(abs) 7.0059E+03 6.8440E+03 0.0010 life(col/abs/tl)
6.8459E+03 0.0009 6.8514E+03 0.0007
source points generated 4881

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```

estimator cycle 418 ave of 368 cycles combination
simple average combined average corr
k(collision) 0.638481 0.640757 0.0009 k(col/abs)
0.640748 0.0008 0.640744 0.0008 0.8575
k(absorption) 0.656692 0.640738 0.0009 k(abs/tk ln)
0.640741 0.0009 0.640740 0.0008 0.4292
k(trk length) 0.601142 0.640745 0.0012 k(tk ln/col)
0.640751 0.0009 0.640754 0.0009 0.5431
rem life(col) 6.8066E+03 6.8439E+03 0.0010 k(col/abs/tk ln)
0.640747 0.0008 0.640742 0.0008
rem life(abs) 6.7769E+03 6.8438E+03 0.0010 life(col/abs/tl)
6.8456E+03 0.0008 6.8508E+03 0.0007
source points generated 5025

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estimator cycle 419 ave of 369 cycles combination
simple average combined average corr
k(collision) 0.627286 0.640721 0.0009 k(col/abs)
0.640705 0.0008 0.640700 0.0008 0.8581
k(absorption) 0.622817 0.640690 0.0009 k(abs/tk ln)
0.640710 0.0009 0.640699 0.0008 0.4290
k(trk length) 0.635575 0.640731 0.0012 k(tk ln/col)
0.640726 0.0009 0.640723 0.0009 0.5431

```

rem life(col)	6.8744E+03	6.8439E+03	0.0010	k(col/abs/tk ln)
0.640714 0.0008	0.640702	0.0008		
rem life(abs)	6.9013E+03	6.8440E+03	0.0010	life(col/abs/tl)
6.8458E+03 0.0008	6.8510E+03	0.0007		
source points generated	4898			

estimator	cycle	420	ave of	370 cycles	combination
simple average	combined average		corr		
k(collision)	0.629476		0.640690	0.0009	k(col/abs)
0.640668 0.0008	0.640661	0.0008	0.8583		
k(absorption)	0.624541		0.640646	0.0009	k(abs/tk ln)
0.640692 0.0009	0.640668	0.0008	0.4269		
k(trk length)	0.643545		0.640738	0.0012	k(tk ln/col)
0.640714 0.0009	0.640701	0.0009	0.5418		
rem life(col)	6.7374E+03	6.8436E+03	0.0010	k(col/abs/tk ln)	
0.640692 0.0008	0.640672	0.0008			
rem life(abs)	6.7244E+03	6.8436E+03	0.0010	life(col/abs/tl)	
6.8456E+03 0.0008	6.8510E+03	0.0007			
source points generated	5048				

estimator	cycle	421	ave of	371 cycles	combination
simple average	combined average		corr		
k(collision)	0.635912		0.640677	0.0009	k(col/abs)
0.640653 0.0008	0.640645	0.0008	0.8584		
k(absorption)	0.634131		0.640628	0.0009	k(abs/tk ln)
0.640692 0.0009	0.640659	0.0008	0.4258		
k(trk length)	0.647002		0.640755	0.0012	k(tk ln/col)
0.640716 0.0009	0.640695	0.0009	0.5410		
rem life(col)	6.9534E+03	6.8439E+03	0.0010	k(col/abs/tk ln)	
0.640687 0.0008	0.640663	0.0008			
rem life(abs)	6.9618E+03	6.8439E+03	0.0010	life(col/abs/tl)	
6.8459E+03 0.0008	6.8512E+03	0.0007			
source points generated	5032				

estimator	cycle	422	ave of	372 cycles	combination
simple average	combined average		corr		
k(collision)	0.654900		0.640716	0.0009	k(col/abs)
0.640685 0.0008	0.640675	0.0008	0.8587		
k(absorption)	0.650113		0.640654	0.0009	k(abs/tk ln)
0.640714 0.0009	0.640683	0.0008	0.4264		
k(trk length)	0.647983		0.640775	0.0012	k(tk ln/col)
0.640745 0.0009	0.640729	0.0009	0.5414		
rem life(col)	6.7017E+03	6.8436E+03	0.0010	k(col/abs/tk ln)	
0.640715 0.0008	0.640688	0.0008			
rem life(abs)	6.6919E+03	6.8435E+03	0.0010	life(col/abs/tl)	
6.8455E+03 0.0008	6.8510E+03	0.0007			
source points generated	5179				

estimator	cycle	423	ave of	373 cycles	combination
simple average	combined average		corr		
k(collision)	0.632692		0.640694	0.0009	k(col/abs)
0.640663 0.0008	0.640654	0.0008	0.8589		
k(absorption)	0.632763		0.640633	0.0009	k(abs/tk ln)
0.640721 0.0009	0.640676	0.0008	0.4239		

k(trk length)	0.653583	0.640809	0.0012	k(tk ln/col)
0.640752	0.0009	0.640720	0.0009	0.5387
rem life(col)	6.9089E+03	6.8437E+03	0.0010	k(col/abs/tk ln)
0.640712	0.0008	0.640680	0.0008	
rem life(abs)	6.9097E+03	6.8437E+03	0.0010	life(col/abs/tl)
6.8457E+03	0.0008	6.8512E+03	0.0007	
source points generated	4819			

estimator	cycle	424	ave of	374 cycles	combination
simple average	combined average		corr		
k(collision)	0.638369		0.640688	0.0009	k(col/abs)
0.640654	0.0008	0.640643	0.0008	0.8589	
k(absorption)	0.635922		0.640620	0.0009	k(abs/tk ln)
0.640747	0.0009	0.640682	0.0008	0.4201	
k(trk length)	0.665384		0.640875	0.0012	k(tk ln/col)
0.640781	0.0009	0.640730	0.0009	0.5356	
rem life(col)	6.8233E+03		6.8437E+03	0.0010	k(col/abs/tk ln)
0.640728	0.0008	0.640685	0.0008		
rem life(abs)	6.8423E+03		6.8437E+03	0.0010	life(col/abs/tl)
6.8457E+03	0.0008	6.8512E+03	0.0007		
source points generated	5057				

estimator	cycle	425	ave of	375 cycles	combination
simple average	combined average		corr		
k(collision)	0.635990		0.640675	0.0009	k(col/abs)
0.640640	0.0008	0.640628	0.0008	0.8589	
k(absorption)	0.634527		0.640604	0.0008	k(abs/tk ln)
0.640715	0.0009	0.640658	0.0008	0.4210	
k(trk length)	0.622567		0.640826	0.0012	k(tk ln/col)
0.640751	0.0009	0.640709	0.0009	0.5358	
rem life(col)	6.8714E+03		6.8438E+03	0.0010	k(col/abs/tk ln)
0.640702	0.0008	0.640662	0.0008		
rem life(abs)	6.8872E+03		6.8438E+03	0.0010	life(col/abs/tl)
6.8458E+03	0.0008	6.8514E+03	0.0007		
source points generated	4960				

estimator	cycle	426	ave of	376 cycles	combination
simple average	combined average		corr		
k(collision)	0.651879		0.640705	0.0009	k(col/abs)
0.640663	0.0008	0.640649	0.0008	0.8589	
k(absorption)	0.646872		0.640621	0.0008	k(abs/tk ln)
0.640711	0.0009	0.640665	0.0008	0.4196	
k(trk length)	0.631958		0.640802	0.0012	k(tk ln/col)
0.640754	0.0009	0.640727	0.0009	0.5331	
rem life(col)	6.6392E+03		6.8432E+03	0.0010	k(col/abs/tk ln)
0.640709	0.0008	0.640671	0.0008		
rem life(abs)	6.6346E+03		6.8433E+03	0.0010	life(col/abs/tl)
6.8453E+03	0.0008	6.8511E+03	0.0007		
source points generated	5099				

estimator	cycle	427	ave of	377 cycles	combination
simple average	combined average		corr		
k(collision)	0.650693		0.640732	0.0009	k(col/abs)
0.640686	0.0008	0.640671	0.0008	0.8591	

k(absorption)	0.648056	0.640640	0.0008	k(abs/tk ln)
0.640717	0.0009	0.640678	0.0008	0.4188
k(trk length)	0.637429	0.640793	0.0012	k(tk ln/col)
0.640763	0.0009	0.640746	0.0009	0.5319
rem life(col)	6.6833E+03	6.8428E+03	0.0010	k(col/abs/tk ln)
0.640722	0.0008	0.640685	0.0008	
rem life(abs)	6.6803E+03	6.8428E+03	0.0010	life(col/abs/tl)
6.8449E+03	0.0008	6.8510E+03	0.0007	
source points generated	4967			

estimator	cycle	428	ave of	378 cycles	combination
simple average	combined average		corr		
k(collision)	0.640560	0.640731	0.0009	k(col/abs)	
0.640676	0.0008	0.640658	0.0008	0.8586	
k(absorption)	0.633021	0.640620	0.0008	k(abs/tk ln)	
0.640681	0.0008	0.640650	0.0008	0.4201	
k(trk length)	0.621275	0.640742	0.0012	k(tk ln/col)	
0.640736	0.0009	0.640734	0.0009	0.5307	
rem life(col)	6.6891E+03	6.8424E+03	0.0010	k(col/abs/tk ln)	
0.640698	0.0008	0.640661	0.0008		
rem life(abs)	6.6952E+03	6.8424E+03	0.0010	life(col/abs/tl)	
6.8447E+03	0.0008	6.8512E+03	0.0007		
source points generated	4915				

estimator	cycle	429	ave of	379 cycles	combination
simple average	combined average		corr		
k(collision)	0.630642	0.640705	0.0009	k(col/abs)	
0.640656	0.0008	0.640640	0.0008	0.8585	
k(absorption)	0.635777	0.640607	0.0008	k(abs/tk ln)	
0.640655	0.0008	0.640631	0.0008	0.4207	
k(trk length)	0.626264	0.640704	0.0012	k(tk ln/col)	
0.640704	0.0009	0.640704	0.0009	0.5319	
rem life(col)	6.8010E+03	6.8423E+03	0.0010	k(col/abs/tk ln)	
0.640672	0.0008	0.640640	0.0008		
rem life(abs)	6.7836E+03	6.8423E+03	0.0010	life(col/abs/tl)	
6.8447E+03	0.0008	6.8513E+03	0.0007		
source points generated	4900				

estimator	cycle	430	ave of	380 cycles	combination
simple average	combined average		corr		
k(collision)	0.627303	0.640669	0.0009	k(col/abs)	
0.640640	0.0008	0.640629	0.0008	0.8565	
k(absorption)	0.641520	0.640610	0.0008	k(abs/tk ln)	
0.640657	0.0008	0.640633	0.0008	0.4207	
k(trk length)	0.641248	0.640705	0.0012	k(tk ln/col)	
0.640687	0.0009	0.640677	0.0009	0.5307	
rem life(col)	6.6921E+03	6.8419E+03	0.0010	k(col/abs/tk ln)	
0.640661	0.0008	0.640638	0.0008		
rem life(abs)	6.6689E+03	6.8418E+03	0.0010	life(col/abs/tl)	
6.8444E+03	0.0008	6.8514E+03	0.0007		
source points generated	4999				

estimator	cycle	431	ave of	381 cycles	combination
simple average	combined average		corr		

k(collision)	0.637999	0.640662	0.0009	k(col/abs)
0.640629	0.0008	0.640618	0.0008	0.8565
k(absorption)	0.635082	0.640595	0.0008	k(abs/tk ln)
0.640652	0.0008	0.640622	0.0008	0.4204
k(trk length)	0.641796	0.640708	0.0012	k(tk ln/col)
0.640685	0.0009	0.640673	0.0008	0.5306
rem life(col)	6.7266E+03	6.8416E+03	0.0010	k(col/abs/tk ln)
0.640655	0.0008	0.640628	0.0008	
rem life(abs)	6.7554E+03	6.8416E+03	0.0010	life(col/abs/tl)
6.8442E+03	0.0008	6.8513E+03	0.0007	
source points generated	5055			

estimator	cycle	432	ave of	382 cycles	combination
simple average	combined average		corr		
k(collision)	0.646062		0.640676	0.0009	k(col/abs)
0.640637	0.0008	0.640624	0.0008	0.8563	
k(absorption)	0.641731		0.640598	0.0008	k(abs/tk ln)
0.640642	0.0008	0.640619	0.0008	0.4201	
k(trk length)	0.632542		0.640686	0.0012	k(tk ln/col)
0.640681	0.0009	0.640679	0.0008	0.5295	
rem life(col)	6.7705E+03		6.8414E+03	0.0010	k(col/abs/tk ln)
0.640654	0.0008	0.640627	0.0008		
rem life(abs)	6.7744E+03		6.8414E+03	0.0010	life(col/abs/tl)
6.8440E+03	0.0008	6.8513E+03	0.0007		
source points generated	5065				

estimator	cycle	433	ave of	383 cycles	combination
simple average	combined average		corr		
k(collision)	0.642160		0.640680	0.0009	k(col/abs)
0.640631	0.0008	0.640614	0.0008	0.8556	
k(absorption)	0.633883		0.640581	0.0008	k(abs/tk ln)
0.640625	0.0008	0.640602	0.0008	0.4205	
k(trk length)	0.634119		0.640669	0.0012	k(tk ln/col)
0.640675	0.0009	0.640678	0.0008	0.5292	
rem life(col)	6.9387E+03		6.8416E+03	0.0010	k(col/abs/tk ln)
0.640643	0.0008	0.640613	0.0008		
rem life(abs)	6.9708E+03		6.8418E+03	0.0010	life(col/abs/tl)
6.8443E+03	0.0008	6.8515E+03	0.0007		
source points generated	4994				

estimator	cycle	434	ave of	384 cycles	combination
simple average	combined average		corr		
k(collision)	0.638906		0.640676	0.0009	k(col/abs)
0.640616	0.0008	0.640597	0.0008	0.8551	
k(absorption)	0.631397		0.640557	0.0008	k(abs/tk ln)
0.640621	0.0008	0.640588	0.0008	0.4190	
k(trk length)	0.646871		0.640685	0.0011	k(tk ln/col)
0.640681	0.0009	0.640678	0.0008	0.5288	
rem life(col)	6.6134E+03		6.8410E+03	0.0010	k(col/abs/tk ln)
0.640639	0.0008	0.640600	0.0008		
rem life(abs)	6.6707E+03		6.8413E+03	0.0010	life(col/abs/tl)
6.8439E+03	0.0008	6.8514E+03	0.0007		
source points generated	4999				

estimator	cycle	435	ave of	385 cycles	combination
simple average	combined average		corr		
k(collision)	0.640126		0.640674	0.0009	k(col/abs)
0.640607 0.0008	0.640585	0.0008	0.8547		
k(absorption)	0.633826		0.640539	0.0008	k(abs/tk ln)
0.640630 0.0008	0.640583	0.0008	0.4167		
k(trk length)	0.654416		0.640721	0.0011	k(tk ln/col)
0.640698 0.0009	0.640685	0.0008	0.5281		
rem life(col)	6.5151E+03		6.8402E+03	0.0010	k(col/abs/tk ln)
0.640645 0.0008	0.640597	0.0008			
rem life(abs)	6.5213E+03		6.8405E+03	0.0010	life(col/abs/tl)
6.8432E+03 0.0008	6.8510E+03	0.0007			
source points generated 4996					

estimator	cycle	436	ave of	386 cycles	combination
simple average	combined average		corr		
k(collision)	0.622311		0.640627	0.0009	k(col/abs)
0.640569 0.0008	0.640549	0.0008	0.8550		
k(absorption)	0.629445		0.640511	0.0008	k(abs/tk ln)
0.640607 0.0008	0.640558	0.0008	0.4172		
k(trk length)	0.634116		0.640704	0.0011	k(tk ln/col)
0.640665 0.0009	0.640644	0.0008	0.5280		
rem life(col)	6.8326E+03		6.8402E+03	0.0010	k(col/abs/tk ln)
0.640614 0.0008	0.640568	0.0008			
rem life(abs)	6.8016E+03		6.8404E+03	0.0010	life(col/abs/tl)
6.8431E+03 0.0008	6.8511E+03	0.0007			
source points generated 4877					

estimator	cycle	437	ave of	387 cycles	combination
simple average	combined average		corr		
k(collision)	0.646536		0.640642	0.0009	k(col/abs)
0.640590 0.0008	0.640573	0.0008	0.8549		
k(absorption)	0.651198		0.640538	0.0008	k(abs/tk ln)
0.640618 0.0008	0.640577	0.0008	0.4162		
k(trk length)	0.638590		0.640699	0.0011	k(tk ln/col)
0.640670 0.0009	0.640655	0.0008	0.5276		
rem life(col)	6.7907E+03		6.8401E+03	0.0010	k(col/abs/tk ln)
0.640626 0.0008	0.640587	0.0008			
rem life(abs)	6.7868E+03		6.8403E+03	0.0010	life(col/abs/tl)
6.8430E+03 0.0008	6.8508E+03	0.0007			
source points generated 5200					

estimator	cycle	438	ave of	388 cycles	combination
simple average	combined average		corr		
k(collision)	0.637891		0.640635	0.0009	k(col/abs)
0.640589 0.0008	0.640574	0.0008	0.8547		
k(absorption)	0.642397		0.640543	0.0008	k(abs/tk ln)
0.640616 0.0008	0.640579	0.0008	0.4161		
k(trk length)	0.637127		0.640689	0.0011	k(tk ln/col)
0.640662 0.0009	0.640647	0.0008	0.5277		
rem life(col)	6.8401E+03		6.8401E+03	0.0010	k(col/abs/tk ln)
0.640622 0.0008	0.640587	0.0008			
rem life(abs)	6.8215E+03		6.8402E+03	0.0010	life(col/abs/tl)
6.8429E+03 0.0008	6.8506E+03	0.0007			

source points generated 4955

estimator	cycle	439	ave of	389 cycles	combination
simple average	combined average		corr		
k(collision)	0.644542		0.640645	0.0009	k(col/abs)
0.640585	0.0008	0.640566	0.0008	0.8535	
k(absorption)	0.633784		0.640526	0.0008	k(abs/tk ln)
0.640620	0.0008	0.640572	0.0008	0.4144	
k(trk length)	0.650740		0.640715	0.0011	k(tk ln/col)
0.640680	0.0009	0.640661	0.0008	0.5279	
rem life(col)	6.9315E+03		6.8403E+03	0.0010	k(col/abs/tk ln)
0.640629	0.0008	0.640583	0.0008		
rem life(abs)	6.9421E+03		6.8405E+03	0.0009	life(col/abs/tl)
6.8431E+03	0.0008	6.8506E+03	0.0007		

source points generated 5063

estimator	cycle	440	ave of	390 cycles	combination
simple average	combined average		corr		
k(collision)	0.651839		0.640674	0.0009	k(col/abs)
0.640612	0.0008	0.640591	0.0008	0.8538	
k(absorption)	0.649938		0.640550	0.0008	k(abs/tk ln)
0.640646	0.0008	0.640597	0.0008	0.4154	
k(trk length)	0.651350		0.640742	0.0011	k(tk ln/col)
0.640708	0.0009	0.640689	0.0008	0.5288	
rem life(col)	6.7185E+03		6.8400E+03	0.0010	k(col/abs/tk ln)
0.640655	0.0008	0.640608	0.0008		
rem life(abs)	6.7185E+03		6.8402E+03	0.0009	life(col/abs/tl)
6.8428E+03	0.0008	6.8504E+03	0.0007		

source points generated 5091

estimator	cycle	441	ave of	391 cycles	combination
simple average	combined average		corr		
k(collision)	0.646324		0.640688	0.0009	k(col/abs)
0.640624	0.0008	0.640603	0.0008	0.8539	
k(absorption)	0.644690		0.640560	0.0008	k(abs/tk ln)
0.640650	0.0008	0.640604	0.0008	0.4153	
k(trk length)	0.639743		0.640740	0.0011	k(tk ln/col)
0.640714	0.0009	0.640700	0.0008	0.5285	
rem life(col)	6.8573E+03		6.8400E+03	0.0009	k(col/abs/tk ln)
0.640663	0.0008	0.640616	0.0008		
rem life(abs)	6.8685E+03		6.8402E+03	0.0009	life(col/abs/tl)
6.8429E+03	0.0008	6.8505E+03	0.0007		

source points generated 4960

estimator	cycle	442	ave of	392 cycles	combination
simple average	combined average		corr		
k(collision)	0.638702		0.640683	0.0009	k(col/abs)
0.640617	0.0008	0.640596	0.0008	0.8539	
k(absorption)	0.637073		0.640551	0.0008	k(abs/tk ln)
0.640661	0.0008	0.640605	0.0008	0.4141	
k(trk length)	0.652936		0.640771	0.0011	k(tk ln/col)
0.640727	0.0009	0.640703	0.0008	0.5276	
rem life(col)	6.7102E+03		6.8397E+03	0.0009	k(col/abs/tk ln)
0.640668	0.0008	0.640617	0.0008		

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rem life(abs) 6.7372E+03 6.8400E+03 0.0009 life(col/abs/tl)
6.8426E+03 0.0008 6.8504E+03 0.0007
source points generated 4921

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estimator cycle 443 ave of 393 cycles combination
simple average combined average corr
k(collision) 0.645290 0.640695 0.0009 k(col/abs)
0.640627 0.0008 0.640605 0.0008 0.8539
k(absorption) 0.643727 0.640560 0.0008 k(abs/tk ln)
0.640690 0.0008 0.640623 0.0008 0.4141
k(trk length) 0.660200 0.640820 0.0011 k(tk ln/col)
0.640758 0.0009 0.640723 0.0008 0.5277
rem life(col) 6.8080E+03 6.8396E+03 0.0009 k(col/abs/tk ln)
0.640692 0.0008 0.640634 0.0008
rem life(abs) 6.8344E+03 6.8400E+03 0.0009 life(col/abs/tl)
6.8426E+03 0.0008 6.8506E+03 0.0007
source points generated 5046

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estimator cycle 444 ave of 394 cycles combination
simple average combined average corr
k(collision) 0.635172 0.640681 0.0009 k(col/abs)
0.640612 0.0008 0.640589 0.0008 0.8540
k(absorption) 0.633814 0.640542 0.0008 k(abs/tk ln)
0.640686 0.0008 0.640612 0.0008 0.4135
k(trk length) 0.644300 0.640829 0.0011 k(tk ln/col)
0.640755 0.0009 0.640715 0.0008 0.5272
rem life(col) 7.0178E+03 6.8401E+03 0.0009 k(col/abs/tk ln)
0.640684 0.0008 0.640623 0.0008
rem life(abs) 7.0148E+03 6.8404E+03 0.0009 life(col/abs/tl)
6.8430E+03 0.0008 6.8508E+03 0.0007
source points generated 4957

```

```

estimator cycle 445 ave of 395 cycles combination
simple average combined average corr
k(collision) 0.636333 0.640670 0.0009 k(col/abs)
0.640607 0.0008 0.640587 0.0008 0.8538
k(absorption) 0.641520 0.640545 0.0008 k(abs/tk ln)
0.640669 0.0008 0.640605 0.0008 0.4127
k(trk length) 0.626511 0.640793 0.0011 k(tk ln/col)
0.640731 0.0009 0.640698 0.0008 0.5274
rem life(col) 6.7420E+03 6.8398E+03 0.0009 k(col/abs/tk ln)
0.640669 0.0008 0.640615 0.0008
rem life(abs) 6.7552E+03 6.8402E+03 0.0009 life(col/abs/tl)
6.8428E+03 0.0008 6.8506E+03 0.0007
source points generated 5048

```

```

estimator cycle 446 ave of 396 cycles combination
simple average combined average corr
k(collision) 0.659321 0.640717 0.0009 k(col/abs)
0.640670 0.0008 0.640657 0.0008 0.8539
k(absorption) 0.671745 0.640624 0.0008 k(abs/tk ln)
0.640717 0.0008 0.640671 0.0008 0.4116
k(trk length) 0.647819 0.640811 0.0011 k(tk ln/col)
0.640764 0.0009 0.640739 0.0008 0.5274

```

rem life(col)	6.6686E+03	6.8394E+03	0.0009	k(col/abs/tk ln)
0.640717 0.0008	0.640679	0.0008		
rem life(abs)	6.6251E+03	6.8396E+03	0.0009	life(col/abs/tl)
6.8423E+03 0.0008	6.8502E+03	0.0007		
source points generated	5181			

estimator	cycle	447	ave of	397 cycles	combination
simple average	combined average		corr		
k(collision)	0.623558		0.640674	0.0009	k(col/abs)
0.640628 0.0008	0.640615	0.0008	0.8548		
k(absorption)	0.623909		0.640582	0.0008	k(abs/tk ln)
0.640686 0.0008	0.640634	0.0008	0.4125		
k(trk length)	0.632381		0.640790	0.0011	k(tk ln/col)
0.640732 0.0009	0.640701	0.0008	0.5279		
rem life(col)	6.8880E+03	6.8395E+03	0.0009	k(col/abs/tk ln)	
0.640682 0.0008	0.640642	0.0008			
rem life(abs)	6.8818E+03	6.8397E+03	0.0009	life(col/abs/tl)	
6.8424E+03 0.0008	6.8503E+03	0.0007			
source points generated	4709				

estimator	cycle	448	ave of	398 cycles	combination
simple average	combined average		corr		
k(collision)	0.633553		0.640656	0.0009	k(col/abs)
0.640615 0.0008	0.640604	0.0008	0.8547		
k(absorption)	0.638092		0.640575	0.0008	k(abs/tk ln)
0.640660 0.0008	0.640618	0.0008	0.4124		
k(trk length)	0.622577		0.640744	0.0011	k(tk ln/col)
0.640700 0.0009	0.640676	0.0008	0.5286		
rem life(col)	6.9431E+03	6.8398E+03	0.0009	k(col/abs/tk ln)	
0.640658 0.0008	0.640625	0.0008			
rem life(abs)	6.8972E+03	6.8399E+03	0.0009	life(col/abs/tl)	
6.8426E+03 0.0008	6.8504E+03	0.0007			
source points generated	5050				

estimator	cycle	449	ave of	399 cycles	combination
simple average	combined average		corr		
k(collision)	0.653541		0.640688	0.0009	k(col/abs)
0.640638 0.0008	0.640624	0.0008	0.8544		
k(absorption)	0.645929		0.640589	0.0008	k(abs/tk ln)
0.640691 0.0008	0.640640	0.0008	0.4130		
k(trk length)	0.660189		0.640793	0.0011	k(tk ln/col)
0.640740 0.0009	0.640712	0.0008	0.5305		
rem life(col)	6.7837E+03	6.8396E+03	0.0009	k(col/abs/tk ln)	
0.640690 0.0008	0.640648	0.0008			
rem life(abs)	6.8086E+03	6.8398E+03	0.0009	life(col/abs/tl)	
6.8424E+03 0.0008	6.8500E+03	0.0007			
source points generated	5180				

estimator	cycle	450	ave of	400 cycles	combination
simple average	combined average		corr		
k(collision)	0.661217		0.640739	0.0009	k(col/abs)
0.640693 0.0008	0.640679	0.0008	0.8558		
k(absorption)	0.663426		0.640646	0.0008	k(abs/tk ln)
0.640738 0.0008	0.640692	0.0008	0.4158		

k(trk length)	0.655958	0.640830	0.0011	k(tk ln/col)
0.640785	0.0009	0.640760	0.0008	0.5324
rem life(col)	6.6621E+03	6.8392E+03	0.0009	k(col/abs/tk ln)
0.640739	0.0008	0.640701	0.0008	
rem life(abs)	6.6679E+03	6.8394E+03	0.0009	life(col/abs/tl)
6.8420E+03	0.0008	6.8497E+03	0.0007	
source points generated	5079			

estimator	cycle	451	ave of	401 cycles	combination
simple average	combined average		corr		
k(collision)	0.624334		0.640698	0.0009	k(col/abs)
0.640657	0.0008	0.640645	0.0008	0.8563	
k(absorption)	0.628335		0.640615	0.0008	k(abs/tk ln)
0.640694	0.0008	0.640655	0.0008	0.4184	
k(trk length)	0.617748		0.640773	0.0011	k(tk ln/col)
0.640736	0.0009	0.640715	0.0008	0.5352	
rem life(col)	6.8769E+03		6.8393E+03	0.0009	k(col/abs/tk ln)
0.640695	0.0008	0.640662	0.0008		
rem life(abs)	6.8718E+03		6.8395E+03	0.0009	life(col/abs/tl)
6.8421E+03	0.0008	6.8498E+03	0.0007		
source points generated	4729				

estimator	cycle	452	ave of	402 cycles	combination
simple average	combined average		corr		
k(collision)	0.646663		0.640713	0.0009	k(col/abs)
0.640666	0.0008	0.640652	0.0008	0.8561	
k(absorption)	0.641774		0.640618	0.0008	k(abs/tk ln)
0.640700	0.0008	0.640659	0.0008	0.4184	
k(trk length)	0.644463		0.640782	0.0011	k(tk ln/col)
0.640748	0.0009	0.640729	0.0008	0.5353	
rem life(col)	6.6526E+03		6.8388E+03	0.0009	k(col/abs/tk ln)
0.640704	0.0008	0.640668	0.0008		
rem life(abs)	6.6379E+03		6.8390E+03	0.0009	life(col/abs/tl)
6.8417E+03	0.0008	6.8494E+03	0.0007		
source points generated	5225				

estimator	cycle	453	ave of	403 cycles	combination
simple average	combined average		corr		
k(collision)	0.646172		0.640727	0.0009	k(col/abs)
0.640684	0.0008	0.640672	0.0008	0.8561	
k(absorption)	0.650195		0.640642	0.0008	k(abs/tk ln)
0.640729	0.0008	0.640685	0.0008	0.4197	
k(trk length)	0.654562		0.640816	0.0011	k(tk ln/col)
0.640772	0.0009	0.640747	0.0008	0.5357	
rem life(col)	6.8654E+03		6.8389E+03	0.0009	k(col/abs/tk ln)
0.640728	0.0008	0.640693	0.0008		
rem life(abs)	6.8435E+03		6.8390E+03	0.0009	life(col/abs/tl)
6.8417E+03	0.0008	6.8494E+03	0.0006		
source points generated	4933				

estimator	cycle	454	ave of	404 cycles	combination
simple average	combined average		corr		
k(collision)	0.643202		0.640733	0.0008	k(col/abs)
0.640695	0.0008	0.640685	0.0008	0.8560	

k(absorption)	0.647202	0.640658	0.0008	k(abs/tk ln)
0.640739	0.0008	0.640698	0.0008	0.4196
k(trk length)	0.642162	0.640820	0.0011	k(tk ln/col)
0.640776	0.0009	0.640753	0.0008	0.5357
rem life(col)	6.7536E+03	6.8387E+03	0.0009	k(col/abs/tk ln)
0.640737	0.0008	0.640705	0.0008	
rem life(abs)	6.7237E+03	6.8387E+03	0.0009	life(col/abs/tl)
6.8414E+03	0.0008	6.8491E+03	0.0006	
source points generated	4949			

estimator	cycle	455	ave of	405 cycles	combination
simple average	combined average		corr		
k(collision)	0.644143	0.640741	0.0008	k(col/abs)	
0.640705	0.0008	0.640695	0.0008	0.8560	
k(absorption)	0.645018	0.640669	0.0008	k(abs/tk ln)	
0.640752	0.0008	0.640711	0.0008	0.4199	
k(trk length)	0.647500	0.640836	0.0011	k(tk ln/col)	
0.640789	0.0009	0.640763	0.0008	0.5358	
rem life(col)	6.9734E+03	6.8390E+03	0.0009	k(col/abs/tk ln)	
0.640749	0.0008	0.640716	0.0008		
rem life(abs)	6.9443E+03	6.8389E+03	0.0009	life(col/abs/tl)	
6.8416E+03	0.0008	6.8490E+03	0.0006		
source points generated	4992				

estimator	cycle	456	ave of	406 cycles	combination
simple average	combined average		corr		
k(collision)	0.645943	0.640754	0.0008	k(col/abs)	
0.640701	0.0008	0.640687	0.0008	0.8542	
k(absorption)	0.632439	0.640648	0.0008	k(abs/tk ln)	
0.640741	0.0008	0.640695	0.0008	0.4198	
k(trk length)	0.639404	0.640833	0.0011	k(tk ln/col)	
0.640793	0.0009	0.640772	0.0008	0.5356	
rem life(col)	6.8017E+03	6.8389E+03	0.0009	k(col/abs/tk ln)	
0.640745	0.0008	0.640705	0.0008		
rem life(abs)	6.8301E+03	6.8389E+03	0.0009	life(col/abs/tl)	
6.8416E+03	0.0008	6.8490E+03	0.0006		
source points generated	5033				

estimator	cycle	457	ave of	407 cycles	combination
simple average	combined average		corr		
k(collision)	0.638615	0.640749	0.0008	k(col/abs)	
0.640686	0.0008	0.640669	0.0008	0.8536	
k(absorption)	0.629975	0.640622	0.0008	k(abs/tk ln)	
0.640695	0.0008	0.640658	0.0008	0.4221	
k(trk length)	0.614766	0.640768	0.0011	k(tk ln/col)	
0.640759	0.0009	0.640753	0.0008	0.5342	
rem life(col)	7.0442E+03	6.8394E+03	0.0009	k(col/abs/tk ln)	
0.640713	0.0008	0.640674	0.0008		
rem life(abs)	7.0659E+03	6.8395E+03	0.0009	life(col/abs/tl)	
6.8421E+03	0.0008	6.8494E+03	0.0006		
source points generated	4929				

estimator	cycle	458	ave of	408 cycles	combination
simple average	combined average		corr		

k(collision)	0.661070	0.640799	0.0008	k(col/abs)
0.640745	0.0008	0.640732	0.0008	0.8547
k(absorption)	0.668448	0.640690	0.0008	k(abs/tk ln)
0.640742	0.0008	0.640716	0.0008	0.4228
k(trk length)	0.650952	0.640793	0.0011	k(tk ln/col)
0.640796	0.0009	0.640797	0.0008	0.5349
rem life(col)	6.8046E+03	6.8393E+03	0.0009	k(col/abs/tk ln)
0.640761	0.0008	0.640731	0.0008	
rem life(abs)	6.7647E+03	6.8393E+03	0.0009	life(col/abs/tl)
6.8419E+03	0.0008	6.8493E+03	0.0006	
source points generated	5164			

estimator	cycle	459	ave of	409 cycles	combination
simple average	combined average		corr		
k(collision)	0.652739		0.640828	0.0008	k(col/abs)
0.640772	0.0008	0.640758	0.0008	0.8551	
k(absorption)	0.650970		0.640716	0.0008	k(abs/tk ln)
0.640753	0.0008	0.640735	0.0008	0.4222	
k(trk length)	0.639844		0.640791	0.0011	k(tk ln/col)
0.640810	0.0009	0.640819	0.0008	0.5339	
rem life(col)	6.6973E+03		6.8390E+03	0.0009	k(col/abs/tk ln)
0.640778	0.0008	0.640751	0.0008		
rem life(abs)	6.6956E+03		6.8389E+03	0.0009	life(col/abs/tl)
6.8415E+03	0.0008	6.8488E+03	0.0006		
source points generated	4967				

estimator	cycle	460	ave of	410 cycles	combination
simple average	combined average		corr		
k(collision)	0.635562		0.640815	0.0008	k(col/abs)
0.640755	0.0008	0.640741	0.0008	0.8551	
k(absorption)	0.632300		0.640695	0.0008	k(abs/tk ln)
0.640742	0.0008	0.640719	0.0008	0.4220	
k(trk length)	0.639551		0.640788	0.0011	k(tk ln/col)
0.640802	0.0009	0.640809	0.0008	0.5339	
rem life(col)	6.7965E+03		6.8389E+03	0.0009	k(col/abs/tk ln)
0.640766	0.0008	0.640735	0.0008		
rem life(abs)	6.7843E+03		6.8388E+03	0.0009	life(col/abs/tl)
6.8414E+03	0.0008	6.8488E+03	0.0006		
source points generated	4844				

estimator	cycle	461	ave of	411 cycles	combination
simple average	combined average		corr		
k(collision)	0.639034		0.640811	0.0008	k(col/abs)
0.640743	0.0008	0.640727	0.0008	0.8547	
k(absorption)	0.632178		0.640674	0.0008	k(abs/tk ln)
0.640738	0.0008	0.640707	0.0008	0.4209	
k(trk length)	0.646034		0.640801	0.0011	k(tk ln/col)
0.640806	0.0009	0.640808	0.0008	0.5336	
rem life(col)	6.8226E+03		6.8388E+03	0.0009	k(col/abs/tk ln)
0.640762	0.0008	0.640725	0.0008		
rem life(abs)	6.8411E+03		6.8388E+03	0.0009	life(col/abs/tl)
6.8414E+03	0.0008	6.8486E+03	0.0006		
source points generated	5057				

estimator	cycle	462	ave of	412 cycles	combination
simple average	combined average		corr		
k(collision)	0.642499		0.640815	0.0008	k(col/abs)
0.640739	0.0008	0.640722	0.0008	0.8544	
k(absorption)	0.636374		0.640664	0.0008	k(abs/tk ln)
0.640727	0.0008	0.640696	0.0008	0.4210	
k(trk length)	0.636634		0.640791	0.0011	k(tk ln/col)
0.640803	0.0008	0.640809	0.0008	0.5334	
rem life(col)	6.7754E+03		6.8387E+03	0.0009	k(col/abs/tk ln)
0.640756	0.0008	0.640717	0.0008		
rem life(abs)	6.7771E+03		6.8387E+03	0.0009	life(col/abs/tl)
6.8412E+03	0.0008	6.8484E+03	0.0006		
source points generated 4999					

estimator	cycle	463	ave of	413 cycles	combination
simple average	combined average		corr		
k(collision)	0.646401		0.640828	0.0008	k(col/abs)
0.640761	0.0008	0.640746	0.0008	0.8541	
k(absorption)	0.652933		0.640694	0.0008	k(abs/tk ln)
0.640747	0.0008	0.640721	0.0008	0.4211	
k(trk length)	0.644865		0.640801	0.0011	k(tk ln/col)
0.640814	0.0008	0.640822	0.0008	0.5336	
rem life(col)	7.0404E+03		6.8392E+03	0.0009	k(col/abs/tk ln)
0.640774	0.0008	0.640741	0.0008		
rem life(abs)	7.0435E+03		6.8392E+03	0.0009	life(col/abs/tl)
6.8416E+03	0.0008	6.8483E+03	0.0006		
source points generated 5099					

estimator	cycle	464	ave of	414 cycles	combination
simple average	combined average		corr		
k(collision)	0.633539		0.640811	0.0008	k(col/abs)
0.640746	0.0008	0.640732	0.0008	0.8542	
k(absorption)	0.635873		0.640682	0.0008	k(abs/tk ln)
0.640743	0.0008	0.640714	0.0008	0.4209	
k(trk length)	0.642608		0.640805	0.0011	k(tk ln/col)
0.640808	0.0008	0.640809	0.0008	0.5331	
rem life(col)	6.8129E+03		6.8391E+03	0.0009	k(col/abs/tk ln)
0.640766	0.0008	0.640732	0.0008		
rem life(abs)	6.8142E+03		6.8391E+03	0.0009	life(col/abs/tl)
6.8415E+03	0.0008	6.8484E+03	0.0006		
source points generated 4931					

estimator	cycle	465	ave of	415 cycles	combination
simple average	combined average		corr		
k(collision)	0.630534		0.640786	0.0008	k(col/abs)
0.640733	0.0008	0.640721	0.0008	0.8534	
k(absorption)	0.640087		0.640681	0.0008	k(abs/tk ln)
0.640747	0.0008	0.640714	0.0008	0.4208	
k(trk length)	0.643945		0.640813	0.0011	k(tk ln/col)
0.640799	0.0008	0.640792	0.0008	0.5319	
rem life(col)	6.7872E+03		6.8390E+03	0.0009	k(col/abs/tk ln)
0.640760	0.0008	0.640728	0.0008		
rem life(abs)	6.7828E+03		6.8390E+03	0.0009	life(col/abs/tl)
6.8415E+03	0.0008	6.8484E+03	0.0006		

source points generated 4995

estimator	cycle	466	ave of	416 cycles	combination
simple average	combined average		corr		
k(collision)	0.655273		0.640821	0.0008	k(col/abs)
0.640769 0.0008	0.640757	0.0008	0.8541		
k(absorption)	0.655823		0.640717	0.0008	k(abs/tk ln)
0.640788 0.0008	0.640753	0.0008	0.4235		
k(trk length)	0.659959		0.640859	0.0011	k(tk ln/col)
0.640840 0.0008	0.640830	0.0008	0.5340		
rem life(col)	6.6728E+03		6.8386E+03	0.0009	k(col/abs/tk ln)
0.640799 0.0008	0.640767	0.0008			
rem life(abs)	6.6931E+03		6.8386E+03	0.0009	life(col/abs/tl)
6.8411E+03 0.0008	6.8482E+03	0.0006			

source points generated 5188

estimator	cycle	467	ave of	417 cycles	combination
simple average	combined average		corr		
k(collision)	0.632228		0.640800	0.0008	k(col/abs)
0.640745 0.0008	0.640732	0.0008	0.8543		
k(absorption)	0.629287		0.640690	0.0008	k(abs/tk ln)
0.640769 0.0008	0.640730	0.0008	0.4236		
k(trk length)	0.636677		0.640849	0.0011	k(tk ln/col)
0.640824 0.0008	0.640811	0.0008	0.5341		
rem life(col)	6.7647E+03		6.8384E+03	0.0009	k(col/abs/tk ln)
0.640779 0.0008	0.640744	0.0008			
rem life(abs)	6.7700E+03		6.8385E+03	0.0009	life(col/abs/tl)
6.8410E+03 0.0008	6.8483E+03	0.0006			

source points generated 4795

estimator	cycle	468	ave of	418 cycles	combination
simple average	combined average		corr		
k(collision)	0.635200		0.640787	0.0008	k(col/abs)
0.640731 0.0008	0.640718	0.0008	0.8544		
k(absorption)	0.634540		0.640675	0.0008	k(abs/tk ln)
0.640771 0.0008	0.640724	0.0008	0.4225		
k(trk length)	0.648934		0.640868	0.0011	k(tk ln/col)
0.640827 0.0008	0.640806	0.0008	0.5330		
rem life(col)	7.0545E+03		6.8389E+03	0.0009	k(col/abs/tk ln)
0.640776 0.0008	0.640738	0.0008			
rem life(abs)	7.0700E+03		6.8390E+03	0.0009	life(col/abs/tl)
6.8415E+03 0.0008	6.8484E+03	0.0006			

source points generated 5034

estimator	cycle	469	ave of	419 cycles	combination
simple average	combined average		corr		
k(collision)	0.645615		0.640798	0.0008	k(col/abs)
0.640750 0.0008	0.640740	0.0008	0.8541		
k(absorption)	0.652257		0.640702	0.0008	k(abs/tk ln)
0.640777 0.0008	0.640741	0.0008	0.4205		
k(trk length)	0.633977		0.640851	0.0011	k(tk ln/col)
0.640825 0.0008	0.640811	0.0008	0.5322		
rem life(col)	6.5929E+03		6.8383E+03	0.0009	k(col/abs/tk ln)
0.640784 0.0008	0.640753	0.0008			

rem life(abs) 6.5825E+03 6.8384E+03 0.0009 life(col/abs/tl)
6.8409E+03 0.0008 6.8482E+03 0.0006
source points generated 5022

estimator	cycle	470	ave of	420 cycles	combination
simple average	combined average		corr		
k(collision)	0.629715		0.640772	0.0008	k(col/abs)
0.640728 0.0008	0.640718	0.0008	0.8543		
k(absorption)	0.632902		0.640684	0.0008	k(abs/tk ln)
0.640750 0.0008	0.640718	0.0008	0.4215		
k(trk length)	0.626301		0.640817	0.0011	k(tk ln/col)
0.640794 0.0008	0.640782	0.0008	0.5334		
rem life(col)	6.8990E+03		6.8385E+03	0.0009	k(col/abs/tk ln)
0.640758 0.0008	0.640729	0.0008			
rem life(abs)	6.8961E+03		6.8385E+03	0.0009	life(col/abs/tl)
6.8411E+03 0.0008	6.8483E+03	0.0006			
source points generated	4856				

estimator	cycle	471	ave of	421 cycles	combination
simple average	combined average		corr		
k(collision)	0.649663		0.640793	0.0008	k(col/abs)
0.640732 0.0008	0.640718	0.0008	0.8522		
k(absorption)	0.634867		0.640670	0.0008	k(abs/tk ln)
0.640741 0.0008	0.640707	0.0008	0.4215		
k(trk length)	0.638720		0.640812	0.0011	k(tk ln/col)
0.640802 0.0008	0.640797	0.0008	0.5326		
rem life(col)	6.8713E+03		6.8386E+03	0.0009	k(col/abs/tk ln)
0.640758 0.0008	0.640724	0.0008			
rem life(abs)	6.9173E+03		6.8387E+03	0.0009	life(col/abs/tl)
6.8412E+03 0.0008	6.8482E+03	0.0006			
source points generated	5142				

estimator	cycle	472	ave of	422 cycles	combination
simple average	combined average		corr		
k(collision)	0.653954		0.640824	0.0008	k(col/abs)
0.640761 0.0008	0.640747	0.0008	0.8527		
k(absorption)	0.652277		0.640698	0.0008	k(abs/tk ln)
0.640747 0.0008	0.640723	0.0008	0.4196		
k(trk length)	0.634139		0.640796	0.0011	k(tk ln/col)
0.640810 0.0008	0.640818	0.0008	0.5302		
rem life(col)	6.7067E+03		6.8382E+03	0.0009	k(col/abs/tk ln)
0.640773 0.0008	0.640742	0.0008			
rem life(abs)	6.7243E+03		6.8384E+03	0.0009	life(col/abs/tl)
6.8409E+03 0.0008	6.8481E+03	0.0006			
source points generated	5005				

estimator	cycle	473	ave of	423 cycles	combination
simple average	combined average		corr		
k(collision)	0.630065		0.640799	0.0008	k(col/abs)
0.640729 0.0008	0.640714	0.0008	0.8529		
k(absorption)	0.624430		0.640659	0.0008	k(abs/tk ln)
0.640721 0.0008	0.640692	0.0008	0.4197		
k(trk length)	0.635463		0.640783	0.0011	k(tk ln/col)
0.640791 0.0008	0.640795	0.0008	0.5304		

rem life(col)	7.0717E+03	6.8388E+03	0.0009	k(col/abs/tk ln)
0.640747 0.0008	0.640712	0.0008		
rem life(abs)	7.0851E+03	6.8390E+03	0.0009	life(col/abs/tl)
6.8414E+03 0.0008	6.8484E+03	0.0006		
source points generated	4830			

estimator	cycle	474	ave of	424 cycles	combination
simple average	combined average		corr		
k(collision)	0.629838		0.640773	0.0008	k(col/abs)
0.640709 0.0008	0.640695	0.0008	0.8529		
k(absorption)	0.634553		0.640645	0.0008	k(abs/tk ln)
0.640683 0.0008	0.640664	0.0008	0.4203		
k(trk length)	0.614129		0.640721	0.0011	k(tk ln/col)
0.640747 0.0008	0.640761	0.0008	0.5320		
rem life(col)	6.8114E+03	6.8387E+03	0.0009	k(col/abs/tk ln)	
0.640713 0.0008	0.640684	0.0008			
rem life(abs)	6.8140E+03	6.8390E+03	0.0009	life(col/abs/tl)	
6.8414E+03 0.0008	6.8485E+03	0.0006			
source points generated	5031				

estimator	cycle	475	ave of	425 cycles	combination
simple average	combined average		corr		
k(collision)	0.639971		0.640771	0.0008	k(col/abs)
0.640715 0.0008	0.640703	0.0008	0.8524		
k(absorption)	0.647029		0.640660	0.0008	k(abs/tk ln)
0.640690 0.0008	0.640675	0.0008	0.4201		
k(trk length)	0.640323		0.640720	0.0011	k(tk ln/col)
0.640745 0.0008	0.640759	0.0008	0.5320		
rem life(col)	6.8562E+03	6.8388E+03	0.0009	k(col/abs/tk ln)	
0.640717 0.0008	0.640693	0.0007			
rem life(abs)	6.8570E+03	6.8390E+03	0.0009	life(col/abs/tl)	
6.8414E+03 0.0008	6.8486E+03	0.0006			
source points generated	5093				

estimator	cycle	476	ave of	426 cycles	combination
simple average	combined average		corr		
k(collision)	0.626441		0.640737	0.0008	k(col/abs)
0.640693 0.0008	0.640683	0.0008	0.8518		
k(absorption)	0.636103		0.640649	0.0008	k(abs/tk ln)
0.640673 0.0008	0.640661	0.0007	0.4205		
k(trk length)	0.630675		0.640696	0.0011	k(tk ln/col)
0.640717 0.0008	0.640728	0.0008	0.5328		
rem life(col)	7.0232E+03	6.8392E+03	0.0009	k(col/abs/tk ln)	
0.640694 0.0008	0.640675	0.0007			
rem life(abs)	7.0063E+03	6.8394E+03	0.0009	life(col/abs/tl)	
6.8418E+03 0.0008	6.8487E+03	0.0006			
source points generated	4874				

estimator	cycle	477	ave of	427 cycles	combination
simple average	combined average		corr		
k(collision)	0.643927		0.640745	0.0008	k(col/abs)
0.640698 0.0008	0.640688	0.0008	0.8518		
k(absorption)	0.641693		0.640651	0.0008	k(abs/tk ln)
0.640691 0.0008	0.640672	0.0007	0.4202		

k(trk length)	0.655750	0.640731	0.0011	k(tk ln/col)
0.640738 0.0008	0.640742 0.0008	0.5328		
rem life(col)	6.6925E+03	6.8389E+03	0.0009	k(col/abs/tk ln)
0.640709 0.0008	0.640685 0.0007			
rem life(abs)	6.6836E+03	6.8390E+03	0.0009	life(col/abs/tl)
6.8414E+03 0.0008	6.8484E+03 0.0006			
source points generated	5129			

estimator	cycle	478	ave of	428 cycles	combination
simple average	combined average		corr		
k(collision)	0.636741	0.640736	0.0008	k(col/abs)	
0.640697 0.0008	0.640688 0.0008	0.8514			
k(absorption)	0.643558	0.640658	0.0008	k(abs/tk ln)	
0.640691 0.0008	0.640675 0.0007	0.4200			
k(trk length)	0.637467	0.640724	0.0011	k(tk ln/col)	
0.640730 0.0008	0.640733 0.0008	0.5329			
rem life(col)	6.7282E+03	6.8386E+03	0.0009	k(col/abs/tk ln)	
0.640706 0.0008	0.640686 0.0007				
rem life(abs)	6.7057E+03	6.8387E+03	0.0009	life(col/abs/tl)	
6.8412E+03 0.0008	6.8482E+03 0.0006				
source points generated	4916				

estimator	cycle	479	ave of	429 cycles	combination
simple average	combined average		corr		
k(collision)	0.631687	0.640714	0.0008	k(col/abs)	
0.640678 0.0008	0.640670 0.0008	0.8515			
k(absorption)	0.633854	0.640642	0.0008	k(abs/tk ln)	
0.640668 0.0008	0.640655 0.0007	0.4208			
k(trk length)	0.627518	0.640693	0.0011	k(tk ln/col)	
0.640704 0.0008	0.640709 0.0008	0.5337			
rem life(col)	6.7477E+03	6.8384E+03	0.0009	k(col/abs/tk ln)	
0.640683 0.0008	0.640666 0.0007				
rem life(abs)	6.7380E+03	6.8385E+03	0.0009	life(col/abs/tl)	
6.8409E+03 0.0008	6.8479E+03 0.0006				
source points generated	4965				

estimator	cycle	480	ave of	430 cycles	combination
simple average	combined average		corr		
k(collision)	0.644871	0.640724	0.0008	k(col/abs)	
0.640683 0.0008	0.640674 0.0008	0.8514			
k(absorption)	0.640659	0.640642	0.0008	k(abs/tk ln)	
0.640646 0.0008	0.640645 0.0007	0.4199			
k(trk length)	0.622479	0.640651	0.0011	k(tk ln/col)	
0.640687 0.0008	0.640707 0.0008	0.5314			
rem life(col)	6.7756E+03	6.8382E+03	0.0009	k(col/abs/tk ln)	
0.640672 0.0008	0.640658 0.0007				
rem life(abs)	6.8135E+03	6.8384E+03	0.0009	life(col/abs/tl)	
6.8408E+03 0.0008	6.8478E+03 0.0006				
source points generated	5071				

estimator	cycle	481	ave of	431 cycles	combination
simple average	combined average		corr		
k(collision)	0.634223	0.640709	0.0008	k(col/abs)	
0.640667 0.0008	0.640657 0.0008	0.8515			

k(absorption)	0.632770	0.640624	0.0008	k(abs/tk ln)
0.640615	0.0008	0.640620	0.0007	0.4211
k(trk length)	0.621755	0.640607	0.0011	k(tk ln/col)
0.640658	0.0008	0.640685	0.0008	0.5320
rem life(col)	6.6576E+03	6.8378E+03	0.0009	k(col/abs/tk ln)
0.640647	0.0008	0.640635	0.0007	
rem life(abs)	6.6487E+03	6.8380E+03	0.0009	life(col/abs/tl)
6.8404E+03	0.0008	6.8475E+03	0.0006	
source points generated	4869			

estimator	cycle	482	ave of	432 cycles	combination
simple average	combined average		corr		
k(collision)	0.632427	0.640690	0.0008	k(col/abs)	
0.640644	0.0008	0.640634	0.0008	0.8517	
k(absorption)	0.629446	0.640598	0.0008	k(abs/tk ln)	
0.640587	0.0008	0.640593	0.0007	0.4225	
k(trk length)	0.627343	0.640576	0.0011	k(tk ln/col)	
0.640633	0.0008	0.640664	0.0008	0.5327	
rem life(col)	6.8557E+03	6.8379E+03	0.0009	k(col/abs/tk ln)	
0.640621	0.0008	0.640609	0.0007		
rem life(abs)	6.8665E+03	6.8381E+03	0.0009	life(col/abs/tl)	
6.8405E+03	0.0008	6.8478E+03	0.0006		
source points generated	4942				

estimator	cycle	483	ave of	433 cycles	combination
simple average	combined average		corr		
k(collision)	0.636150	0.640679	0.0008	k(col/abs)	
0.640635	0.0008	0.640625	0.0008	0.8517	
k(absorption)	0.637149	0.640590	0.0008	k(abs/tk ln)	
0.640600	0.0008	0.640595	0.0007	0.4210	
k(trk length)	0.655572	0.640611	0.0011	k(tk ln/col)	
0.640645	0.0008	0.640664	0.0008	0.5309	
rem life(col)	6.8519E+03	6.8379E+03	0.0009	k(col/abs/tk ln)	
0.640627	0.0008	0.640610	0.0007		
rem life(abs)	6.8601E+03	6.8381E+03	0.0009	life(col/abs/tl)	
6.8406E+03	0.0008	6.8477E+03	0.0006		
source points generated	5031				

estimator	cycle	484	ave of	434 cycles	combination
simple average	combined average		corr		
k(collision)	0.643561	0.640686	0.0008	k(col/abs)	
0.640631	0.0008	0.640619	0.0008	0.8510	
k(absorption)	0.634697	0.640577	0.0008	k(abs/tk ln)	
0.640579	0.0008	0.640578	0.0007	0.4217	
k(trk length)	0.628150	0.640582	0.0011	k(tk ln/col)	
0.640634	0.0008	0.640662	0.0008	0.5299	
rem life(col)	6.6894E+03	6.8376E+03	0.0009	k(col/abs/tk ln)	
0.640615	0.0008	0.640598	0.0007		
rem life(abs)	6.7074E+03	6.8378E+03	0.0009	life(col/abs/tl)	
6.8403E+03	0.0008	6.8476E+03	0.0006		
source points generated	5042				

estimator	cycle	485	ave of	435 cycles	combination
simple average	combined average		corr		

k(collision)	0.634956	0.640673	0.0008	k(col/abs)
0.640614	0.0008	0.640602	0.0008	0.8511
k(absorption)	0.631489	0.640556	0.0008	k(abs/tk ln)
0.640571	0.0008	0.640564	0.0007	0.4210
k(trk length)	0.642406	0.640586	0.0011	k(tk ln/col)
0.640629	0.0008	0.640653	0.0008	0.5295
rem life(col)	7.1209E+03	6.8382E+03	0.0009	k(col/abs/tk ln)
0.640605	0.0007	0.640584	0.0007	
rem life(abs)	7.1511E+03	6.8385E+03	0.0009	life(col/abs/tl)
6.8409E+03	0.0008	6.8481E+03	0.0006	
source points generated	4939			

estimator	cycle	486	ave of	436 cycles	combination
simple average	combined average		corr		
k(collision)	0.643309	0.640679	0.0008	k(col/abs)	
0.640615	0.0008	0.640601	0.0008	0.8509	
k(absorption)	0.638528	0.640551	0.0008	k(abs/tk ln)	
0.640581	0.0008	0.640566	0.0007	0.4204	
k(trk length)	0.651492	0.640611	0.0011	k(tk ln/col)	
0.640645	0.0008	0.640663	0.0008	0.5295	
rem life(col)	6.9541E+03	6.8385E+03	0.0009	k(col/abs/tk ln)	
0.640614	0.0007	0.640588	0.0007		
rem life(abs)	6.9567E+03	6.8388E+03	0.0009	life(col/abs/tl)	
6.8412E+03	0.0008	6.8483E+03	0.0006		
source points generated	5104				

estimator	cycle	487	ave of	437 cycles	combination
simple average	combined average		corr		
k(collision)	0.654961	0.640712	0.0008	k(col/abs)	
0.640650	0.0008	0.640637	0.0008	0.8515	
k(absorption)	0.656824	0.640588	0.0008	k(abs/tk ln)	
0.640624	0.0008	0.640607	0.0007	0.4235	
k(trk length)	0.661961	0.640660	0.0011	k(tk ln/col)	
0.640686	0.0008	0.640700	0.0008	0.5317	
rem life(col)	6.7932E+03	6.8384E+03	0.0009	k(col/abs/tk ln)	
0.640653	0.0007	0.640627	0.0007		
rem life(abs)	6.7925E+03	6.8387E+03	0.0009	life(col/abs/tl)	
6.8411E+03	0.0008	6.8482E+03	0.0006		
source points generated	5097				

estimator	cycle	488	ave of	438 cycles	combination
simple average	combined average		corr		
k(collision)	0.646009	0.640724	0.0008	k(col/abs)	
0.640662	0.0008	0.640649	0.0008	0.8516	
k(absorption)	0.646002	0.640601	0.0008	k(abs/tk ln)	
0.640649	0.0008	0.640625	0.0007	0.4241	
k(trk length)	0.657122	0.640698	0.0011	k(tk ln/col)	
0.640711	0.0008	0.640718	0.0008	0.5320	
rem life(col)	6.6753E+03	6.8380E+03	0.0009	k(col/abs/tk ln)	
0.640674	0.0007	0.640645	0.0007		
rem life(abs)	6.6877E+03	6.8384E+03	0.0009	life(col/abs/tl)	
6.8408E+03	0.0008	6.8481E+03	0.0006		
source points generated	4953				

estimator	cycle	489	ave of	439 cycles	combination
simple average	combined average		corr		
k(collision)	0.629317		0.640698	0.0008	k(col/abs)
0.640637 0.0008	0.640624	0.0008	0.8519		
k(absorption)	0.630216		0.640577	0.0008	k(abs/tk ln)
0.640615 0.0008	0.640596	0.0007	0.4258		
k(trk length)	0.621133		0.640653	0.0011	k(tk ln/col)
0.640675 0.0008	0.640688	0.0008	0.5335		
rem life(col)	6.9658E+03		6.8383E+03	0.0009	k(col/abs/tk ln)
0.640643 0.0007	0.640616	0.0007			
rem life(abs)	6.9590E+03		6.8386E+03	0.0009	life(col/abs/tl)
6.8410E+03 0.0008	6.8479E+03	0.0006			
source points generated		4850			

estimator	cycle	490	ave of	440 cycles	combination
simple average	combined average		corr		
k(collision)	0.655186		0.640731	0.0008	k(col/abs)
0.640664 0.0008	0.640649	0.0008	0.8521		
k(absorption)	0.649592		0.640598	0.0008	k(abs/tk ln)
0.640638 0.0008	0.640618	0.0007	0.4267		
k(trk length)	0.651622		0.640678	0.0011	k(tk ln/col)
0.640704 0.0008	0.640719	0.0008	0.5344		
rem life(col)	6.7362E+03		6.8381E+03	0.0009	k(col/abs/tk ln)
0.640669 0.0007	0.640639	0.0007			
rem life(abs)	6.7526E+03		6.8384E+03	0.0009	life(col/abs/tl)
6.8407E+03 0.0008	6.8477E+03	0.0006			
source points generated		5174			

estimator	cycle	491	ave of	441 cycles	combination
simple average	combined average		corr		
k(collision)	0.619844		0.640683	0.0008	k(col/abs)
0.640629 0.0008	0.640616	0.0008	0.8518		
k(absorption)	0.630647		0.640575	0.0008	k(abs/tk ln)
0.640618 0.0008	0.640597	0.0007	0.4272		
k(trk length)	0.633474		0.640662	0.0011	k(tk ln/col)
0.640672 0.0008	0.640678	0.0008	0.5342		
rem life(col)	7.0133E+03		6.8385E+03	0.0009	k(col/abs/tk ln)
0.640640 0.0007	0.640613	0.0007			
rem life(abs)	6.9897E+03		6.8388E+03	0.0009	life(col/abs/tl)
6.8410E+03 0.0008	6.8475E+03	0.0006			
source points generated		4726			

estimator	cycle	492	ave of	442 cycles	combination
simple average	combined average		corr		
k(collision)	0.645651		0.640694	0.0008	k(col/abs)
0.640641 0.0008	0.640628	0.0008	0.8519		
k(absorption)	0.646258		0.640588	0.0008	k(abs/tk ln)
0.640665 0.0008	0.640626	0.0007	0.4271		
k(trk length)	0.676435		0.640743	0.0011	k(tk ln/col)
0.640718 0.0008	0.640705	0.0008	0.5329		
rem life(col)	6.8200E+03		6.8384E+03	0.0009	k(col/abs/tk ln)
0.640675 0.0007	0.640640	0.0007			
rem life(abs)	6.8534E+03		6.8388E+03	0.0009	life(col/abs/tl)
6.8410E+03 0.0008	6.8475E+03	0.0006			

source points generated 5205

estimator	cycle	493	ave of	443 cycles	combination
simple average	combined average		corr		
k(collision)	0.648066		0.640711	0.0008	k(col/abs)
0.640660 0.0008	0.640648	0.0008	0.8520		
k(absorption)	0.650062		0.640609	0.0008	k(abs/tk ln)
0.640696 0.0008	0.640652	0.0007	0.4285		
k(trk length)	0.658491		0.640783	0.0011	k(tk ln/col)
0.640747 0.0008	0.640727	0.0008	0.5336		
rem life(col)	6.9093E+03		6.8386E+03	0.0009	k(col/abs/tk ln)
0.640701 0.0007	0.640665	0.0007			
rem life(abs)	6.8848E+03		6.8389E+03	0.0009	life(col/abs/tl)
6.8411E+03 0.0008	6.8475E+03	0.0006			

source points generated 4993

estimator	cycle	494	ave of	444 cycles	combination
simple average	combined average		corr		
k(collision)	0.632937		0.640694	0.0008	k(col/abs)
0.640627 0.0008	0.640613	0.0008	0.8507		
k(absorption)	0.618727		0.640560	0.0008	k(abs/tk ln)
0.640665 0.0008	0.640612	0.0007	0.4283		
k(trk length)	0.634806		0.640769	0.0011	k(tk ln/col)
0.640731 0.0008	0.640710	0.0008	0.5339		
rem life(col)	6.8205E+03		6.8385E+03	0.0009	k(col/abs/tk ln)
0.640674 0.0007	0.640631	0.0007			
rem life(abs)	6.8471E+03		6.8389E+03	0.0009	life(col/abs/tl)
6.8411E+03 0.0008	6.8477E+03	0.0006			

source points generated 4869

estimator	cycle	495	ave of	445 cycles	combination
simple average	combined average		corr		
k(collision)	0.629130		0.640668	0.0008	k(col/abs)
0.640606 0.0008	0.640593	0.0008	0.8508		
k(absorption)	0.633793		0.640545	0.0008	k(abs/tk ln)
0.640615 0.0008	0.640579	0.0007	0.4286		
k(trk length)	0.603342		0.640685	0.0011	k(tk ln/col)
0.640676 0.0008	0.640671	0.0008	0.5353		
rem life(col)	6.6405E+03		6.8381E+03	0.0009	k(col/abs/tk ln)
0.640632 0.0007	0.640598	0.0007			
rem life(abs)	6.6310E+03		6.8385E+03	0.0009	life(col/abs/tl)
6.8407E+03 0.0008	6.8474E+03	0.0006			

source points generated 4984

estimator	cycle	496	ave of	446 cycles	combination
simple average	combined average		corr		
k(collision)	0.664716		0.640722	0.0008	k(col/abs)
0.640662 0.0008	0.640650	0.0008	0.8526		
k(absorption)	0.666344		0.640603	0.0008	k(abs/tk ln)
0.640669 0.0008	0.640635	0.0007	0.4333		
k(trk length)	0.663525		0.640736	0.0011	k(tk ln/col)
0.640729 0.0008	0.640725	0.0008	0.5388		
rem life(col)	6.5504E+03		6.8374E+03	0.0009	k(col/abs/tk ln)
0.640687 0.0007	0.640654	0.0007			

rem life(abs) 6.5618E+03 6.8378E+03 0.0009 life(col/abs/tl)
6.8402E+03 0.0008 6.8471E+03 0.0006
source points generated 5244

estimator	cycle	497	ave of	447 cycles	combination
simple average	combined average		corr		
k(collision)	0.640243		0.640720	0.0008	k(col/abs)
0.640654	0.0008	0.640641	0.0008	0.8523	
k(absorption)	0.634235		0.640588	0.0008	k(abs/tk ln)
0.640653	0.0008	0.640620	0.0007	0.4337	
k(trk length)	0.632475		0.640718	0.0011	k(tk ln/col)
0.640719	0.0008	0.640720	0.0008	0.5386	
rem life(col)	6.9054E+03		6.8376E+03	0.0009	k(col/abs/tk ln)
0.640676	0.0007	0.640642	0.0007		
rem life(abs)	6.9085E+03		6.8380E+03	0.0009	life(col/abs/tl)
6.8403E+03	0.0008	6.8471E+03	0.0006		
source points generated 4769					

estimator	cycle	498	ave of	448 cycles	combination
simple average	combined average		corr		
k(collision)	0.652635		0.640747	0.0008	k(col/abs)
0.640678	0.0008	0.640664	0.0008	0.8525	
k(absorption)	0.649892		0.640609	0.0008	k(abs/tk ln)
0.640690	0.0008	0.640648	0.0007	0.4353	
k(trk length)	0.664263		0.640770	0.0011	k(tk ln/col)
0.640759	0.0008	0.640752	0.0008	0.5403	
rem life(col)	7.0405E+03		6.8380E+03	0.0009	k(col/abs/tk ln)
0.640709	0.0007	0.640670	0.0007		
rem life(abs)	7.0291E+03		6.8384E+03	0.0009	life(col/abs/tl)
6.8407E+03	0.0008	6.8473E+03	0.0006		
source points generated 5096					

estimator	cycle	499	ave of	449 cycles	combination
simple average	combined average		corr		
k(collision)	0.636119		0.640737	0.0008	k(col/abs)
0.640677	0.0008	0.640664	0.0008	0.8519	
k(absorption)	0.644206		0.640617	0.0008	k(abs/tk ln)
0.640707	0.0008	0.640660	0.0007	0.4355	
k(trk length)	0.652727		0.640797	0.0011	k(tk ln/col)
0.640767	0.0008	0.640750	0.0008	0.5390	
rem life(col)	6.9552E+03		6.8383E+03	0.0009	k(col/abs/tk ln)
0.640717	0.0007	0.640679	0.0007		
rem life(abs)	6.9587E+03		6.8387E+03	0.0009	life(col/abs/tl)
6.8409E+03	0.0008	6.8475E+03	0.0006		
source points generated 4846					

estimator	cycle	500	ave of	450 cycles	combination
simple average	combined average		corr		
k(collision)	0.653548		0.640765	0.0008	k(col/abs)
0.640700	0.0008	0.640686	0.0008	0.8520	
k(absorption)	0.648287		0.640634	0.0008	k(abs/tk ln)
0.640736	0.0008	0.640683	0.0007	0.4365	
k(trk length)	0.659221		0.640838	0.0011	k(tk ln/col)
0.640802	0.0008	0.640781	0.0008	0.5405	

rem life(col)	7.1592E+03	6.8390E+03	0.0009	k(col/abs/tk ln)
0.640746	0.0007	0.640702	0.0007	
rem life(abs)	7.1646E+03	6.8394E+03	0.0009	life(col/abs/tl)
6.8415E+03	0.0008	6.8477E+03	0.0006	
source points generated	5114			

estimator	cycle	501	ave of	451 cycles	combination
simple average	combined average		corr		
k(collision)	0.645890		0.640777	0.0008	k(col/abs)
0.640712	0.0008	0.640698	0.0008	0.8521	
k(absorption)	0.646369		0.640647	0.0008	k(abs/tk ln)
0.640769	0.0008	0.640705	0.0007	0.4371	
k(trk length)	0.664552		0.640890	0.0011	k(tk ln/col)
0.640834	0.0008	0.640801	0.0008	0.5405	
rem life(col)	6.8766E+03		6.8391E+03	0.0009	k(col/abs/tk ln)
0.640771	0.0007	0.640723	0.0007		
rem life(abs)	6.8703E+03		6.8395E+03	0.0009	life(col/abs/tl)
6.8415E+03	0.0008	6.8477E+03	0.0006		
source points generated	4950				

estimator	cycle	502	ave of	452 cycles	combination
simple average	combined average		corr		
k(collision)	0.641695		0.640779	0.0008	k(col/abs)
0.640709	0.0008	0.640694	0.0008	0.8519	
k(absorption)	0.636953		0.640639	0.0008	k(abs/tk ln)
0.640748	0.0008	0.640690	0.0007	0.4373	
k(trk length)	0.625976		0.640857	0.0011	k(tk ln/col)
0.640818	0.0008	0.640795	0.0008	0.5397	
rem life(col)	6.8609E+03		6.8392E+03	0.0009	k(col/abs/tk ln)
0.640758	0.0007	0.640712	0.0007		
rem life(abs)	6.8589E+03		6.8395E+03	0.0009	life(col/abs/tl)
6.8415E+03	0.0008	6.8477E+03	0.0006		
source points generated	4923				

estimator	cycle	503	ave of	453 cycles	combination
simple average	combined average		corr		
k(collision)	0.654309		0.640808	0.0008	k(col/abs)
0.640732	0.0008	0.640714	0.0008	0.8519	
k(absorption)	0.647788		0.640655	0.0008	k(abs/tk ln)
0.640760	0.0008	0.640704	0.0007	0.4374	
k(trk length)	0.644284		0.640865	0.0011	k(tk ln/col)
0.640837	0.0008	0.640820	0.0008	0.5394	
rem life(col)	6.6814E+03		6.8388E+03	0.0009	k(col/abs/tk ln)
0.640776	0.0007	0.640728	0.0007		
rem life(abs)	6.6761E+03		6.8392E+03	0.0009	life(col/abs/tl)
6.8412E+03	0.0008	6.8474E+03	0.0006		
source points generated	5116				

estimator	cycle	504	ave of	454 cycles	combination
simple average	combined average		corr		
k(collision)	0.659211		0.640849	0.0008	k(col/abs)
0.640763	0.0008	0.640743	0.0008	0.8519	
k(absorption)	0.650867		0.640677	0.0008	k(abs/tk ln)
0.640819	0.0008	0.640742	0.0007	0.4390	

k(trk length)	0.684365	0.640961	0.0011	k(tk ln/col)
0.640905	0.0008	0.640872	0.0008	0.5435
rem life(col)	6.5786E+03	6.8382E+03	0.0009	k(col/abs/tk ln)
0.640829	0.0007	0.640767	0.0007	
rem life(abs)	6.6027E+03	6.8387E+03	0.0009	life(col/abs/tl)
6.8407E+03	0.0008	6.8470E+03	0.0006	
source points generated	5023			

estimator	cycle	505	ave of	455 cycles	combination
simple average	combined average		corr		
k(collision)	0.648752		0.640866	0.0008	k(col/abs)
0.640788	0.0008	0.640770	0.0007	0.8518	
k(absorption)	0.655470		0.640710	0.0008	k(abs/tk ln)
0.640839	0.0008	0.640770	0.0007	0.4388	
k(trk length)	0.644620		0.640969	0.0011	k(tk ln/col)
0.640918	0.0008	0.640887	0.0008	0.5436	
rem life(col)	6.7964E+03		6.8381E+03	0.0009	k(col/abs/tk ln)
0.640848	0.0007	0.640792	0.0007		
rem life(abs)	6.7954E+03		6.8386E+03	0.0009	life(col/abs/tl)
6.8406E+03	0.0008	6.8468E+03	0.0006		
source points generated	4901				

estimator	cycle	506	ave of	456 cycles	combination
simple average	combined average		corr		
k(collision)	0.640941		0.640867	0.0008	k(col/abs)
0.640798	0.0007	0.640783	0.0007	0.8511	
k(absorption)	0.649928		0.640730	0.0008	k(abs/tk ln)
0.640853	0.0008	0.640787	0.0007	0.4389	
k(trk length)	0.644492		0.640977	0.0011	k(tk ln/col)
0.640922	0.0008	0.640889	0.0008	0.5435	
rem life(col)	6.8417E+03		6.8381E+03	0.0009	k(col/abs/tk ln)
0.640858	0.0007	0.640806	0.0007		
rem life(abs)	6.8251E+03		6.8385E+03	0.0009	life(col/abs/tl)
6.8405E+03	0.0008	6.8467E+03	0.0006		
source points generated	4910				

estimator	cycle	507	ave of	457 cycles	combination
simple average	combined average		corr		
k(collision)	0.621152		0.640823	0.0008	k(col/abs)
0.640756	0.0007	0.640741	0.0007	0.8522	
k(absorption)	0.621469		0.640688	0.0008	k(abs/tk ln)
0.640819	0.0008	0.640749	0.0007	0.4404	
k(trk length)	0.628629		0.640950	0.0011	k(tk ln/col)
0.640886	0.0008	0.640849	0.0008	0.5445	
rem life(col)	7.1716E+03		6.8389E+03	0.0009	k(col/abs/tk ln)
0.640820	0.0007	0.640767	0.0007		
rem life(abs)	7.1935E+03		6.8393E+03	0.0009	life(col/abs/tl)
6.8413E+03	0.0008	6.8473E+03	0.0006		
source points generated	4848				

estimator	cycle	508	ave of	458 cycles	combination
simple average	combined average		corr		
k(collision)	0.648209		0.640840	0.0008	k(col/abs)
0.640768	0.0007	0.640753	0.0007	0.8522	

k(absorption)	0.645041	0.640697	0.0008	k(abs/tk ln)
0.640831	0.0008	0.640759	0.0007	0.4406
k(trk length)	0.647696	0.640964	0.0011	k(tk ln/col)
0.640902	0.0008	0.640865	0.0008	0.5448
rem life(col)	7.1044E+03	6.8395E+03	0.0009	k(col/abs/tk ln)
0.640834	0.0007	0.640779	0.0007	
rem life(abs)	7.0961E+03	6.8399E+03	0.0009	life(col/abs/tl)
6.8417E+03	0.0008	6.8476E+03	0.0006	
source points generated	5220			

estimator	cycle	509	ave of	459 cycles	combination
simple average	combined average		corr		
k(collision)	0.629974	0.640816	0.0008	k(col/abs)	
0.640743	0.0007	0.640727	0.0007	0.8526	
k(absorption)	0.628606	0.640671	0.0008	k(abs/tk ln)	
0.640822	0.0008	0.640742	0.0007	0.4393	
k(trk length)	0.644584	0.640972	0.0011	k(tk ln/col)	
0.640894	0.0008	0.640848	0.0008	0.5436	
rem life(col)	6.8966E+03	6.8396E+03	0.0009	k(col/abs/tk ln)	
0.640820	0.0007	0.640760	0.0007		
rem life(abs)	6.9262E+03	6.8401E+03	0.0009	life(col/abs/tl)	
6.8419E+03	0.0008	6.8477E+03	0.0006		
source points generated	4850				

estimator	cycle	510	ave of	460 cycles	combination
simple average	combined average		corr		
k(collision)	0.641849	0.640818	0.0008	k(col/abs)	
0.640745	0.0007	0.640729	0.0007	0.8526	
k(absorption)	0.641582	0.640673	0.0008	k(abs/tk ln)	
0.640827	0.0008	0.640745	0.0007	0.4393	
k(trk length)	0.645503	0.640982	0.0010	k(tk ln/col)	
0.640900	0.0008	0.640852	0.0008	0.5436	
rem life(col)	6.9623E+03	6.8398E+03	0.0009	k(col/abs/tk ln)	
0.640824	0.0007	0.640764	0.0007		
rem life(abs)	6.9612E+03	6.8403E+03	0.0009	life(col/abs/tl)	
6.8421E+03	0.0008	6.8477E+03	0.0006		
source points generated	5073				

estimator	cycle	511	ave of	461 cycles	combination
simple average	combined average		corr		
k(collision)	0.638622	0.640813	0.0008	k(col/abs)	
0.640742	0.0007	0.640726	0.0007	0.8526	
k(absorption)	0.639444	0.640670	0.0008	k(abs/tk ln)	
0.640815	0.0008	0.640738	0.0007	0.4392	
k(trk length)	0.630852	0.640960	0.0010	k(tk ln/col)	
0.640887	0.0008	0.640844	0.0008	0.5436	
rem life(col)	7.0114E+03	6.8402E+03	0.0009	k(col/abs/tk ln)	
0.640815	0.0007	0.640757	0.0007		
rem life(abs)	7.0036E+03	6.8407E+03	0.0009	life(col/abs/tl)	
6.8424E+03	0.0008	6.8478E+03	0.0006		
source points generated	4952				

estimator	cycle	512	ave of	462 cycles	combination
simple average	combined average		corr		

k(collision)	0.635120	0.640801	0.0008	k(col/abs)
0.640731	0.0007	0.640716	0.0007	0.8526
k(absorption)	0.636734	0.640662	0.0008	k(abs/tk ln)
0.640818	0.0008	0.640735	0.0007	0.4387
k(trk length)	0.647798	0.640975	0.0010	k(tk ln/col)
0.640888	0.0008	0.640837	0.0008	0.5428
rem life(col)	7.0667E+03	6.8407E+03	0.0009	k(col/abs/tk ln)
0.640813	0.0007	0.640752	0.0007	
rem life(abs)	7.0656E+03	6.8412E+03	0.0009	life(col/abs/tl)
6.8428E+03	0.0008	6.8482E+03	0.0006	
source points generated	4993			

estimator	cycle	513	ave of	463 cycles	combination
simple average	combined average		corr		
k(collision)	0.634950	0.640788	0.0008	k(col/abs)	
0.640716	0.0007	0.640700	0.0007	0.8527	
k(absorption)	0.632023	0.640643	0.0008	k(abs/tk ln)	
0.640791	0.0008	0.640712	0.0007	0.4398	
k(trk length)	0.623932	0.640938	0.0010	k(tk ln/col)	
0.640863	0.0008	0.640819	0.0008	0.5432	
rem life(col)	6.8109E+03	6.8406E+03	0.0009	k(col/abs/tk ln)	
0.640790	0.0007	0.640731	0.0007		
rem life(abs)	6.8056E+03	6.8411E+03	0.0009	life(col/abs/tl)	
6.8427E+03	0.0008	6.8480E+03	0.0006		
source points generated	5032				

estimator	cycle	514	ave of	464 cycles	combination
simple average	combined average		corr		
k(collision)	0.633711	0.640773	0.0008	k(col/abs)	
0.640698	0.0007	0.640682	0.0007	0.8528	
k(absorption)	0.631630	0.640624	0.0008	k(abs/tk ln)	
0.640766	0.0008	0.640690	0.0007	0.4408	
k(trk length)	0.627426	0.640909	0.0010	k(tk ln/col)	
0.640841	0.0008	0.640801	0.0008	0.5437	
rem life(col)	7.1502E+03	6.8413E+03	0.0009	k(col/abs/tk ln)	
0.640769	0.0007	0.640711	0.0007		
rem life(abs)	7.1587E+03	6.8418E+03	0.0009	life(col/abs/tl)	
6.8434E+03	0.0008	6.8484E+03	0.0006		
source points generated	4965				

estimator	cycle	515	ave of	465 cycles	combination
simple average	combined average		corr		
k(collision)	0.645934	0.640784	0.0008	k(col/abs)	
0.640709	0.0007	0.640693	0.0007	0.8529	
k(absorption)	0.645719	0.640635	0.0008	k(abs/tk ln)	
0.640784	0.0008	0.640704	0.0007	0.4412	
k(trk length)	0.652249	0.640933	0.0010	k(tk ln/col)	
0.640859	0.0008	0.640815	0.0008	0.5441	
rem life(col)	6.6527E+03	6.8409E+03	0.0009	k(col/abs/tk ln)	
0.640784	0.0007	0.640724	0.0007		
rem life(abs)	6.6619E+03	6.8414E+03	0.0009	life(col/abs/tl)	
6.8431E+03	0.0008	6.8485E+03	0.0006		
source points generated	5100				

estimator	cycle	516	ave of	466 cycles	combination
simple average	combined average		corr		
k(collision)	0.614243		0.640727	0.0008	k(col/abs)
0.640661 0.0007	0.640645	0.0007	0.8538		
k(absorption)	0.622313		0.640595	0.0008	k(abs/tk ln)
0.640745 0.0008	0.640665	0.0007	0.4437		
k(trk length)	0.622835		0.640894	0.0010	k(tk ln/col)
0.640811 0.0008	0.640762	0.0008	0.5462		
rem life(col)	6.9305E+03		6.8411E+03	0.0009	k(col/abs/tk ln)
0.640739 0.0007	0.640680	0.0007			
rem life(abs)	6.8891E+03		6.8415E+03	0.0009	life(col/abs/tl)
6.8433E+03 0.0008	6.8488E+03	0.0006			
source points generated	4783				

estimator	cycle	517	ave of	467 cycles	combination
simple average	combined average		corr		
k(collision)	0.633793		0.640712	0.0008	k(col/abs)
0.640653 0.0007	0.640639	0.0007	0.8535		
k(absorption)	0.640206		0.640594	0.0008	k(abs/tk ln)
0.640743 0.0008	0.640663	0.0007	0.4437		
k(trk length)	0.639387		0.640891	0.0010	k(tk ln/col)
0.640802 0.0008	0.640750	0.0008	0.5461		
rem life(col)	6.7232E+03		6.8408E+03	0.0009	k(col/abs/tk ln)
0.640733 0.0007	0.640676	0.0007			
rem life(abs)	6.7200E+03		6.8412E+03	0.0009	life(col/abs/tl)
6.8431E+03 0.0008	6.8488E+03	0.0006			
source points generated	5176				

estimator	cycle	518	ave of	468 cycles	combination
simple average	combined average		corr		
k(collision)	0.642264		0.640716	0.0008	k(col/abs)
0.640663 0.0007	0.640651	0.0007	0.8532		
k(absorption)	0.648392		0.640611	0.0008	k(abs/tk ln)
0.640752 0.0008	0.640677	0.0007	0.4436		
k(trk length)	0.641941		0.640894	0.0010	k(tk ln/col)
0.640805 0.0008	0.640753	0.0008	0.5461		
rem life(col)	6.7744E+03		6.8407E+03	0.0009	k(col/abs/tk ln)
0.640740 0.0007	0.640688	0.0007			
rem life(abs)	6.7593E+03		6.8410E+03	0.0009	life(col/abs/tl)
6.8429E+03 0.0008	6.8485E+03	0.0006			
source points generated	5070				

estimator	cycle	519	ave of	469 cycles	combination
simple average	combined average		corr		
k(collision)	0.628977		0.640691	0.0008	k(col/abs)
0.640639 0.0007	0.640627	0.0007	0.8535		
k(absorption)	0.629891		0.640588	0.0008	k(abs/tk ln)
0.640734 0.0008	0.640656	0.0007	0.4440		
k(trk length)	0.634059		0.640879	0.0010	k(tk ln/col)
0.640785 0.0008	0.640730	0.0008	0.5464		
rem life(col)	6.8295E+03		6.8407E+03	0.0009	k(col/abs/tk ln)
0.640719 0.0007	0.640666	0.0007			
rem life(abs)	6.8337E+03		6.8410E+03	0.0009	life(col/abs/tl)
6.8429E+03 0.0008	6.8485E+03	0.0006			

source points generated 4930

estimator	cycle	520	ave of	470 cycles	combination
simple average		combined average		corr	
k(collision)		0.658115		0.640728 0.0008	k(col/abs)
0.640668 0.0007		0.640652 0.0007		0.8535	
k(absorption)		0.649605		0.640607 0.0008	k(abs/tk ln)
0.640762 0.0008		0.640679 0.0007		0.4452	
k(trk length)		0.658557		0.640917 0.0010	k(tk ln/col)
0.640822 0.0008		0.640767 0.0008		0.5482	
rem life(col)		6.7400E+03		6.8405E+03 0.0009	k(col/abs/tk ln)
0.640751 0.0007		0.640692 0.0007			
rem life(abs)		6.7698E+03		6.8409E+03 0.0009	life(col/abs/tl)
6.8427E+03 0.0008		6.8485E+03 0.0006			

source points generated 5257

estimator	cycle	521	ave of	471 cycles	combination
simple average		combined average		corr	
k(collision)		0.649571		0.640747 0.0008	k(col/abs)
0.640683 0.0007		0.640667 0.0007		0.8535	
k(absorption)		0.646351		0.640620 0.0008	k(abs/tk ln)
0.640763 0.0008		0.640686 0.0007		0.4446	
k(trk length)		0.636259		0.640907 0.0010	k(tk ln/col)
0.640827 0.0008		0.640780 0.0008		0.5472	
rem life(col)		6.6690E+03		6.8401E+03 0.0009	k(col/abs/tk ln)
0.640758 0.0007		0.640701 0.0007			
rem life(abs)		6.6446E+03		6.8405E+03 0.0009	life(col/abs/tl)
6.8424E+03 0.0008		6.8483E+03 0.0006			

source points generated 4962

estimator	cycle	522	ave of	472 cycles	combination
simple average		combined average		corr	
k(collision)		0.634938		0.640734 0.0008	k(col/abs)
0.640661 0.0007		0.640644 0.0007		0.8531	
k(absorption)		0.625980		0.640589 0.0008	k(abs/tk ln)
0.640752 0.0008		0.640665 0.0007		0.4427	
k(trk length)		0.645287		0.640916 0.0010	k(tk ln/col)
0.640825 0.0008		0.640773 0.0008		0.5467	
rem life(col)		7.0011E+03		6.8404E+03 0.0009	k(col/abs/tk ln)
0.640746 0.0007		0.640682 0.0007			
rem life(abs)		7.0218E+03		6.8408E+03 0.0009	life(col/abs/tl)
6.8427E+03 0.0008		6.8484E+03 0.0006			

source points generated 4898

estimator	cycle	523	ave of	473 cycles	combination
simple average		combined average		corr	
k(collision)		0.631374		0.640714 0.0008	k(col/abs)
0.640641 0.0007		0.640623 0.0007		0.8533	
k(absorption)		0.630218		0.640567 0.0008	k(abs/tk ln)
0.640757 0.0008		0.640656 0.0007		0.4396	
k(trk length)		0.655631		0.640947 0.0010	k(tk ln/col)
0.640831 0.0008		0.640764 0.0008		0.5437	
rem life(col)		6.7449E+03		6.8402E+03 0.0009	k(col/abs/tk ln)
0.640743 0.0007		0.640672 0.0007			

rem life(abs)	6.8054E+03	6.8408E+03	0.0009	life(col/abs/tl)
6.8426E+03	0.0008	6.8484E+03	0.0006	
source points generated	4971			

estimator	cycle	524	ave of	474 cycles	combination
simple average			combined average	corr	
k(collision)	0.649639		0.640733	0.0008	k(col/abs)
0.640661	0.0007	0.640643	0.0007	0.8536	
k(absorption)	0.650634		0.640588	0.0007	k(abs/tk ln)
0.640765	0.0008	0.640672	0.0007	0.4389	
k(trk length)	0.638787		0.640942	0.0010	k(tk ln/col)
0.640838	0.0008	0.640778	0.0008	0.5431	
rem life(col)	6.8239E+03		6.8402E+03	0.0009	k(col/abs/tk ln)
0.640755	0.0007	0.640688	0.0007		
rem life(abs)	6.8251E+03		6.8407E+03	0.0009	life(col/abs/tl)
6.8426E+03	0.0008	6.8484E+03	0.0006		
source points generated	5143				

estimator	cycle	525	ave of	475 cycles	combination
simple average			combined average	corr	
k(collision)	0.637492		0.640726	0.0008	k(col/abs)
0.640661	0.0007	0.640646	0.0007	0.8531	
k(absorption)	0.644406		0.640596	0.0007	k(abs/tk ln)
0.640758	0.0008	0.640673	0.0007	0.4380	
k(trk length)	0.630285		0.640920	0.0010	k(tk ln/col)
0.640823	0.0008	0.640768	0.0008	0.5432	
rem life(col)	6.9348E+03		6.8404E+03	0.0009	k(col/abs/tk ln)
0.640747	0.0007	0.640687	0.0007		
rem life(abs)	6.9300E+03		6.8409E+03	0.0009	life(col/abs/tl)
6.8428E+03	0.0008	6.8487E+03	0.0006		
source points generated	4911				

estimator	cycle	526	ave of	476 cycles	combination
simple average			combined average	corr	
k(collision)	0.638149		0.640721	0.0008	k(col/abs)
0.640656	0.0007	0.640640	0.0007	0.8532	
k(absorption)	0.637781		0.640590	0.0007	k(abs/tk ln)
0.640731	0.0008	0.640656	0.0007	0.4377	
k(trk length)	0.618313		0.640873	0.0010	k(tk ln/col)
0.640797	0.0008	0.640753	0.0008	0.5425	
rem life(col)	7.1215E+03		6.8410E+03	0.0009	k(col/abs/tk ln)
0.640728	0.0007	0.640672	0.0007		
rem life(abs)	7.1205E+03		6.8415E+03	0.0009	life(col/abs/tl)
6.8433E+03	0.0008	6.8489E+03	0.0006		
source points generated	5021				

estimator	cycle	527	ave of	477 cycles	combination
simple average			combined average	corr	
k(collision)	0.631203		0.640701	0.0008	k(col/abs)
0.640640	0.0007	0.640625	0.0007	0.8532	
k(absorption)	0.635401		0.640579	0.0007	k(abs/tk ln)
0.640717	0.0008	0.640644	0.0007	0.4381	
k(trk length)	0.632818		0.640856	0.0010	k(tk ln/col)
0.640778	0.0008	0.640734	0.0007	0.5429	

rem life(col)	6.8576E+03	6.8410E+03	0.0009	k(col/abs/tk ln)
0.640712	0.0007	0.640658	0.0007	
rem life(abs)	6.8421E+03	6.8415E+03	0.0009	life(col/abs/tl)
6.8434E+03	0.0008	6.8492E+03	0.0006	
source points generated	4953			

estimator	cycle	528	ave of	478 cycles	combination
simple average	combined average		corr		
k(collision)	0.625280		0.640669	0.0008	k(col/abs)
0.640611	0.0007	0.640596	0.0007	0.8537	
k(absorption)	0.627793		0.640552	0.0007	k(abs/tk ln)
0.640690	0.0008	0.640617	0.0007	0.4394	
k(trk length)	0.627482		0.640828	0.0010	k(tk ln/col)
0.640748	0.0008	0.640702	0.0007	0.5441	
rem life(col)	6.9629E+03		6.8413E+03	0.0009	k(col/abs/tk ln)
0.640683	0.0007	0.640630	0.0007		
rem life(abs)	6.9317E+03		6.8417E+03	0.0009	life(col/abs/tl)
6.8436E+03	0.0008	6.8495E+03	0.0006		
source points generated	4915				

estimator	cycle	529	ave of	479 cycles	combination
simple average	combined average		corr		
k(collision)	0.622781		0.640631	0.0008	k(col/abs)
0.640571	0.0007	0.640556	0.0007	0.8546	
k(absorption)	0.620234		0.640510	0.0007	k(abs/tk ln)
0.640676	0.0008	0.640589	0.0007	0.4356	
k(trk length)	0.647755		0.640842	0.0010	k(tk ln/col)
0.640737	0.0008	0.640677	0.0007	0.5407	
rem life(col)	7.1728E+03		6.8420E+03	0.0009	k(col/abs/tk ln)
0.640661	0.0007	0.640601	0.0007		
rem life(abs)	7.2243E+03		6.8425E+03	0.0009	life(col/abs/tl)
6.8442E+03	0.0008	6.8498E+03	0.0006		
source points generated	5003				

estimator	cycle	530	ave of	480 cycles	combination
simple average	combined average		corr		
k(collision)	0.641255		0.640633	0.0008	k(col/abs)
0.640567	0.0007	0.640551	0.0007	0.8544	
k(absorption)	0.636054		0.640501	0.0007	k(abs/tk ln)
0.640680	0.0008	0.640586	0.0007	0.4348	
k(trk length)	0.648788		0.640859	0.0010	k(tk ln/col)
0.640746	0.0008	0.640682	0.0007	0.5406	
rem life(col)	6.9032E+03		6.8421E+03	0.0009	k(col/abs/tk ln)
0.640664	0.0007	0.640599	0.0007		
rem life(abs)	6.8866E+03		6.8426E+03	0.0009	life(col/abs/tl)
6.8444E+03	0.0008	6.8500E+03	0.0006		
source points generated	5133				

estimator	cycle	531	ave of	481 cycles	combination
simple average	combined average		corr		
k(collision)	0.622784		0.640596	0.0008	k(col/abs)
0.640534	0.0007	0.640519	0.0007	0.8549	
k(absorption)	0.626746		0.640472	0.0007	k(abs/tk ln)
0.640661	0.0008	0.640563	0.0007	0.4347	

k(trk length)	0.637102	0.640851	0.0010	k(tk ln/col)
0.640723	0.0008	0.640651	0.0007	0.5400
rem life(col)	7.0982E+03	6.8426E+03	0.0009	k(col/abs/tk ln)
0.640640	0.0007	0.640574	0.0007	
rem life(abs)	7.0779E+03	6.8431E+03	0.0009	life(col/abs/tl)
6.8447E+03	0.0008	6.8501E+03	0.0006	
source points generated	4859			

estimator	cycle	532	ave of	482 cycles	combination
simple average	combined average		corr		
k(collision)	0.634543		0.640583	0.0008	k(col/abs)
0.640522	0.0007	0.640507	0.0007	0.8550	
k(absorption)	0.635357		0.640461	0.0007	k(abs/tk ln)
0.640644	0.0007	0.640549	0.0007	0.4352	
k(trk length)	0.628844		0.640826	0.0010	k(tk ln/col)
0.640705	0.0008	0.640636	0.0007	0.5404	
rem life(col)	6.7736E+03		6.8425E+03	0.0009	k(col/abs/tk ln)
0.640624	0.0007	0.640560	0.0007		
rem life(abs)	6.7992E+03		6.8430E+03	0.0009	life(col/abs/tl)
6.8446E+03	0.0008	6.8499E+03	0.0006		
source points generated	5135				

estimator	cycle	533	ave of	483 cycles	combination
simple average	combined average		corr		
k(collision)	0.661569		0.640627	0.0008	k(col/abs)
0.640561	0.0007	0.640544	0.0007	0.8557	
k(absorption)	0.656558		0.640495	0.0007	k(abs/tk ln)
0.640650	0.0007	0.640570	0.0007	0.4317	
k(trk length)	0.631126		0.640806	0.0010	k(tk ln/col)
0.640716	0.0008	0.640667	0.0007	0.5353	
rem life(col)	6.7921E+03		6.8424E+03	0.0009	k(col/abs/tk ln)
0.640642	0.0007	0.640584	0.0007		
rem life(abs)	6.8073E+03		6.8429E+03	0.0009	life(col/abs/tl)
6.8445E+03	0.0008	6.8494E+03	0.0006		
source points generated	5180				

estimator	cycle	534	ave of	484 cycles	combination
simple average	combined average		corr		
k(collision)	0.643839		0.640633	0.0008	k(col/abs)
0.640566	0.0007	0.640549	0.0007	0.8558	
k(absorption)	0.642722		0.640499	0.0007	k(abs/tk ln)
0.640661	0.0007	0.640578	0.0007	0.4318	
k(trk length)	0.648749		0.640822	0.0010	k(tk ln/col)
0.640728	0.0008	0.640675	0.0007	0.5354	
rem life(col)	6.7698E+03		6.8422E+03	0.0009	k(col/abs/tk ln)
0.640652	0.0007	0.640591	0.0007		
rem life(abs)	6.7850E+03		6.8428E+03	0.0009	life(col/abs/tl)
6.8443E+03	0.0008	6.8493E+03	0.0006		
source points generated	4868				

estimator	cycle	535	ave of	485 cycles	combination
simple average	combined average		corr		
k(collision)	0.635011		0.640622	0.0008	k(col/abs)
0.640563	0.0007	0.640548	0.0007	0.8552	

k(absorption)	0.642808	0.640504	0.0007	k(abs/tk ln)
0.640662	0.0007	0.640581	0.0007	0.4317
k(trk length)	0.639253	0.640819	0.0010	k(tk ln/col)
0.640720	0.0008	0.640666	0.0007	0.5354
rem life(col)	6.9841E+03	6.8425E+03	0.0009	k(col/abs/tk ln)
0.640648	0.0007	0.640592	0.0007	
rem life(abs)	6.9397E+03	6.8430E+03	0.0009	life(col/abs/tl)
6.8445E+03	0.0008	6.8494E+03	0.0006	
source points generated	4952			

estimator	cycle	536	ave of	486 cycles	combination
simple average	combined average		corr		
k(collision)	0.646449	0.640634	0.0008	k(col/abs)	
0.640565	0.0007	0.640548	0.0007	0.8545	
k(absorption)	0.637065	0.640497	0.0007	k(abs/tk ln)	
0.640661	0.0007	0.640577	0.0007	0.4315	
k(trk length)	0.643719	0.640825	0.0010	k(tk ln/col)	
0.640729	0.0008	0.640676	0.0007	0.5354	
rem life(col)	6.6414E+03	6.8421E+03	0.0009	k(col/abs/tk ln)	
0.640652	0.0007	0.640591	0.0007		
rem life(abs)	6.6930E+03	6.8427E+03	0.0009	life(col/abs/tl)	
6.8442E+03	0.0008	6.8493E+03	0.0006		
source points generated	5156				

estimator	cycle	537	ave of	487 cycles	combination
simple average	combined average		corr		
k(collision)	0.647211	0.640647	0.0008	k(col/abs)	
0.640574	0.0007	0.640555	0.0007	0.8544	
k(absorption)	0.642443	0.640501	0.0007	k(abs/tk ln)	
0.640673	0.0007	0.640585	0.0007	0.4316	
k(trk length)	0.650463	0.640845	0.0010	k(tk ln/col)	
0.640746	0.0008	0.640691	0.0007	0.5358	
rem life(col)	6.6701E+03	6.8418E+03	0.0009	k(col/abs/tk ln)	
0.640664	0.0007	0.640599	0.0007		
rem life(abs)	6.6911E+03	6.8424E+03	0.0009	life(col/abs/tl)	
6.8439E+03	0.0008	6.8491E+03	0.0006		
source points generated	4982				

estimator	cycle	538	ave of	488 cycles	combination
simple average	combined average		corr		
k(collision)	0.631160	0.640628	0.0008	k(col/abs)	
0.640553	0.0007	0.640534	0.0007	0.8547	
k(absorption)	0.629797	0.640479	0.0007	k(abs/tk ln)	
0.640649	0.0007	0.640562	0.0007	0.4326	
k(trk length)	0.628408	0.640819	0.0010	k(tk ln/col)	
0.640724	0.0008	0.640670	0.0007	0.5365	
rem life(col)	6.8984E+03	6.8419E+03	0.0009	k(col/abs/tk ln)	
0.640642	0.0007	0.640577	0.0007		
rem life(abs)	6.8735E+03	6.8424E+03	0.0009	life(col/abs/tl)	
6.8440E+03	0.0008	6.8492E+03	0.0006		
source points generated	4900				

estimator	cycle	539	ave of	489 cycles	combination
simple average	combined average		corr		

k(collision)	0.640820	0.640628	0.0008	k(col/abs)
0.640550	0.0007	0.640530	0.0007	0.8546
k(absorption)	0.637360	0.640473	0.0007	k(abs/tk ln)
0.640633	0.0007	0.640551	0.0007	0.4328
k(trk length)	0.628457	0.640794	0.0010	k(tk ln/col)
0.640711	0.0008	0.640665	0.0007	0.5361
rem life(col)	6.8082E+03	6.8418E+03	0.0009	k(col/abs/tk ln)
0.640632	0.0007	0.640568	0.0007	
rem life(abs)	6.8079E+03	6.8424E+03	0.0009	life(col/abs/tl)
6.8439E+03	0.0008	6.8490E+03	0.0006	
source points generated	5071			

estimator	cycle	540	ave of	490 cycles	combination
simple average	combined average		corr		
k(collision)	0.635082	0.640617	0.0008	k(col/abs)	
0.640547	0.0007	0.640529	0.0007	0.8540	
k(absorption)	0.643153	0.640478	0.0007	k(abs/tk ln)	
0.640626	0.0007	0.640550	0.0007	0.4322	
k(trk length)	0.631231	0.640775	0.0010	k(tk ln/col)	
0.640696	0.0008	0.640652	0.0007	0.5364	
rem life(col)	6.8521E+03	6.8418E+03	0.0009	k(col/abs/tk ln)	
0.640623	0.0007	0.640565	0.0007		
rem life(abs)	6.8231E+03	6.8423E+03	0.0009	life(col/abs/tl)	
6.8439E+03	0.0008	6.8489E+03	0.0006		
source points generated	4954				

estimator	cycle	541	ave of	491 cycles	combination
simple average	combined average		corr		
k(collision)	0.632191	0.640600	0.0008	k(col/abs)	
0.640531	0.0007	0.640513	0.0007	0.8542	
k(absorption)	0.632322	0.640462	0.0007	k(abs/tk ln)	
0.640612	0.0007	0.640535	0.0007	0.4325	
k(trk length)	0.635302	0.640763	0.0010	k(tk ln/col)	
0.640681	0.0008	0.640636	0.0007	0.5366	
rem life(col)	7.0193E+03	6.8422E+03	0.0009	k(col/abs/tk ln)	
0.640608	0.0007	0.640550	0.0007		
rem life(abs)	7.0160E+03	6.8427E+03	0.0009	life(col/abs/tl)	
6.8442E+03	0.0008	6.8492E+03	0.0006		
source points generated	4995				

estimator	cycle	542	ave of	492 cycles	combination
simple average	combined average		corr		
k(collision)	0.642892	0.640604	0.0008	k(col/abs)	
0.640533	0.0007	0.640515	0.0007	0.8542	
k(absorption)	0.640679	0.640462	0.0007	k(abs/tk ln)	
0.640622	0.0007	0.640540	0.0007	0.4323	
k(trk length)	0.650392	0.640783	0.0010	k(tk ln/col)	
0.640694	0.0008	0.640644	0.0007	0.5366	
rem life(col)	6.8729E+03	6.8423E+03	0.0009	k(col/abs/tk ln)	
0.640616	0.0007	0.640555	0.0007		
rem life(abs)	6.8809E+03	6.8428E+03	0.0009	life(col/abs/tl)	
6.8442E+03	0.0008	6.8491E+03	0.0006		
source points generated	5063				

estimator	cycle	543	ave of	493 cycles	combination
simple average	combined average		corr		
k(collision)	0.626253		0.640575	0.0008	k(col/abs)
0.640503 0.0007	0.640485	0.0007	0.8547		
k(absorption)	0.625544		0.640432	0.0007	k(abs/tk ln)
0.640591 0.0007	0.640509	0.0007	0.4341		
k(trk length)	0.625009		0.640751	0.0010	k(tk ln/col)
0.640663 0.0008	0.640614	0.0007	0.5380		
rem life(col)	6.9980E+03		6.8426E+03	0.0009	k(col/abs/tk ln)
0.640586 0.0007	0.640524	0.0007			
rem life(abs)	6.9879E+03		6.8431E+03	0.0009	life(col/abs/tl)
6.8446E+03 0.0008	6.8495E+03	0.0006			
source points generated 4859					

estimator	cycle	544	ave of	494 cycles	combination
simple average	combined average		corr		
k(collision)	0.638507		0.640571	0.0008	k(col/abs)
0.640510 0.0007	0.640495	0.0007	0.8538		
k(absorption)	0.648967		0.640449	0.0007	k(abs/tk ln)
0.640607 0.0007	0.640525	0.0007	0.4345		
k(trk length)	0.647288		0.640764	0.0010	k(tk ln/col)
0.640668 0.0008	0.640614	0.0007	0.5377		
rem life(col)	6.9425E+03		6.8428E+03	0.0009	k(col/abs/tk ln)
0.640595 0.0007	0.640537	0.0007			
rem life(abs)	6.9289E+03		6.8432E+03	0.0009	life(col/abs/tl)
6.8447E+03 0.0008	6.8495E+03	0.0006			
source points generated 5153					

estimator	cycle	545	ave of	495 cycles	combination
simple average	combined average		corr		
k(collision)	0.643367		0.640577	0.0008	k(col/abs)
0.640514 0.0007	0.640498	0.0007	0.8538		
k(absorption)	0.641372		0.640451	0.0007	k(abs/tk ln)
0.640603 0.0007	0.640524	0.0007	0.4344		
k(trk length)	0.636092		0.640755	0.0010	k(tk ln/col)
0.640666 0.0008	0.640616	0.0007	0.5374		
rem life(col)	6.6981E+03		6.8425E+03	0.0009	k(col/abs/tk ln)
0.640594 0.0007	0.640538	0.0007			
rem life(abs)	6.7439E+03		6.8430E+03	0.0009	life(col/abs/tl)
6.8445E+03 0.0008	6.8494E+03	0.0006			
source points generated 5017					

estimator	cycle	546	ave of	496 cycles	combination
simple average	combined average		corr		
k(collision)	0.666216		0.640628	0.0008	k(col/abs)
0.640551 0.0007	0.640529	0.0007	0.8532		
k(absorption)	0.651996		0.640474	0.0007	k(abs/tk ln)
0.640633 0.0007	0.640551	0.0007	0.4360		
k(trk length)	0.659458		0.640792	0.0010	k(tk ln/col)
0.640710 0.0008	0.640665	0.0007	0.5397		
rem life(col)	6.7500E+03		6.8423E+03	0.0009	k(col/abs/tk ln)
0.640632 0.0007	0.640567	0.0007			
rem life(abs)	6.7840E+03		6.8429E+03	0.0009	life(col/abs/tl)
6.8443E+03 0.0008	6.8491E+03	0.0006			

source points generated 5166

estimator	cycle	547	ave of	497 cycles	combination
simple average	combined average		corr		
k(collision)	0.634718		0.640616	0.0008	k(col/abs)
0.640537	0.0007	0.640515	0.0007	0.8532	
k(absorption)	0.632136		0.640457	0.0007	k(abs/tk ln)
0.640626	0.0007	0.640539	0.0007	0.4356	
k(trk length)	0.641861		0.640795	0.0010	k(tk ln/col)
0.640706	0.0008	0.640656	0.0007	0.5395	
rem life(col)	6.8824E+03		6.8424E+03	0.0009	k(col/abs/tk ln)
0.640623	0.0007	0.640555	0.0007		
rem life(abs)	6.9155E+03		6.8431E+03	0.0009	life(col/abs/tl)
6.8444E+03	0.0008	6.8491E+03	0.0006		

source points generated 4713

estimator	cycle	548	ave of	498 cycles	combination
simple average	combined average		corr		
k(collision)	0.631329		0.640598	0.0008	k(col/abs)
0.640521	0.0007	0.640500	0.0007	0.8533	
k(absorption)	0.634285		0.640445	0.0007	k(abs/tk ln)
0.640618	0.0007	0.640528	0.0007	0.4356	
k(trk length)	0.638561		0.640790	0.0010	k(tk ln/col)
0.640694	0.0008	0.640641	0.0007	0.5393	
rem life(col)	6.7141E+03		6.8421E+03	0.0009	k(col/abs/tk ln)
0.640611	0.0007	0.640544	0.0007		
rem life(abs)	6.7043E+03		6.8428E+03	0.0009	life(col/abs/tl)
6.8442E+03	0.0008	6.8489E+03	0.0006		

source points generated 4969

estimator	cycle	549	ave of	499 cycles	combination
simple average	combined average		corr		
k(collision)	0.655881		0.640628	0.0008	k(col/abs)
0.640559	0.0007	0.640541	0.0007	0.8538	
k(absorption)	0.662794		0.640490	0.0007	k(abs/tk ln)
0.640635	0.0007	0.640562	0.0007	0.4321	
k(trk length)	0.636037		0.640781	0.0010	k(tk ln/col)
0.640705	0.0008	0.640663	0.0007	0.5372	
rem life(col)	6.7145E+03		6.8419E+03	0.0009	k(col/abs/tk ln)
0.640633	0.0007	0.640576	0.0007		
rem life(abs)	6.6950E+03		6.8425E+03	0.0009	life(col/abs/tl)
6.8439E+03	0.0008	6.8485E+03	0.0006		

source points generated 5225

estimator	cycle	550	ave of	500 cycles	combination
simple average	combined average		corr		
k(collision)	0.642772		0.640633	0.0008	k(col/abs)
0.640562	0.0007	0.640543	0.0007	0.8537	
k(absorption)	0.641177		0.640491	0.0007	k(abs/tk ln)
0.640653	0.0007	0.640571	0.0007	0.4316	
k(trk length)	0.658369		0.640816	0.0010	k(tk ln/col)
0.640724	0.0008	0.640674	0.0007	0.5369	
rem life(col)	6.7493E+03		6.8417E+03	0.0009	k(col/abs/tk ln)
0.640647	0.0007	0.640585	0.0007		

```

rem life(abs) 6.7293E+03 6.8423E+03 0.0009 life(col/abs/tl)
6.8437E+03 0.0008 6.8483E+03 0.0006
source points generated 4882

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```

estimator cycle 551 ave of 501 cycles combination
simple average combined average corr
k(collision) 0.638273 0.640628 0.0008 k(col/abs)
0.640558 0.0007 0.640539 0.0007 0.8538
k(absorption) 0.638955 0.640488 0.0007 k(abs/tk ln)
0.640637 0.0007 0.640561 0.0007 0.4314
k(trk length) 0.625725 0.640786 0.0010 k(tk ln/col)
0.640707 0.0008 0.640664 0.0007 0.5367
rem life(col) 6.9796E+03 6.8420E+03 0.0009 k(col/abs/tk ln)
0.640634 0.0007 0.640576 0.0007
rem life(abs) 6.9714E+03 6.8425E+03 0.0009 life(col/abs/tl)
6.8439E+03 0.0008 6.8485E+03 0.0006
source points generated 4948

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```

estimator cycle 552 ave of 502 cycles combination
simple average combined average corr
k(collision) 0.649061 0.640645 0.0008 k(col/abs)
0.640570 0.0007 0.640550 0.0007 0.8537
k(absorption) 0.644159 0.640495 0.0007 k(abs/tk ln)
0.640652 0.0007 0.640572 0.0007 0.4317
k(trk length) 0.652122 0.640808 0.0010 k(tk ln/col)
0.640727 0.0008 0.640682 0.0007 0.5373
rem life(col) 6.9551E+03 6.8422E+03 0.0009 k(col/abs/tk ln)
0.640649 0.0007 0.640588 0.0007
rem life(abs) 6.9434E+03 6.8427E+03 0.0009 life(col/abs/tl)
6.8441E+03 0.0008 6.8487E+03 0.0006
source points generated 5069

```

```

estimator cycle 553 ave of 503 cycles combination
simple average combined average corr
k(collision) 0.656917 0.640677 0.0008 k(col/abs)
0.640603 0.0007 0.640583 0.0007 0.8544
k(absorption) 0.657412 0.640529 0.0007 k(abs/tk ln)
0.640679 0.0007 0.640603 0.0007 0.4326
k(trk length) 0.650888 0.640828 0.0010 k(tk ln/col)
0.640753 0.0008 0.640711 0.0007 0.5379
rem life(col) 6.6264E+03 6.8418E+03 0.0009 k(col/abs/tk ln)
0.640678 0.0007 0.640618 0.0007
rem life(abs) 6.6272E+03 6.8423E+03 0.0009 life(col/abs/tl)
6.8437E+03 0.0008 6.8484E+03 0.0006
source points generated 5042

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```

estimator cycle 554 ave of 504 cycles combination
simple average combined average corr
k(collision) 0.638049 0.640672 0.0008 k(col/abs)
0.640599 0.0007 0.640579 0.0007 0.8544
k(absorption) 0.638639 0.640525 0.0007 k(abs/tk ln)
0.640686 0.0007 0.640604 0.0007 0.4322
k(trk length) 0.649619 0.640846 0.0010 k(tk ln/col)
0.640759 0.0008 0.640711 0.0007 0.5374

```

rem life(col)	6.6319E+03	6.8413E+03	0.0009	k(col/abs/tk ln)
0.640681	0.0007	0.640619	0.0007	
rem life(abs)	6.6113E+03	6.8418E+03	0.0009	life(col/abs/tl)
6.8433E+03	0.0008	6.8482E+03	0.0006	
source points generated	4886			

estimator	cycle	555	ave of	505 cycles	combination
simple average	combined average		corr		
k(collision)	0.630821		0.640652	0.0008	k(col/abs)
0.640577	0.0007	0.640557	0.0007	0.8546	
k(absorption)	0.628463		0.640501	0.0007	k(abs/tk ln)
0.640663	0.0007	0.640581	0.0007	0.4331	
k(trk length)	0.630100		0.640824	0.0010	k(tk ln/col)
0.640738	0.0008	0.640691	0.0007	0.5380	
rem life(col)	6.7943E+03		6.8412E+03	0.0009	k(col/abs/tk ln)
0.640659	0.0007	0.640597	0.0007		
rem life(abs)	6.7990E+03		6.8417E+03	0.0009	life(col/abs/tl)
6.8433E+03	0.0007	6.8484E+03	0.0006		
source points generated	4931				

estimator	cycle	556	ave of	506 cycles	combination
simple average	combined average		corr		
k(collision)	0.626206		0.640624	0.0008	k(col/abs)
0.640541	0.0007	0.640520	0.0007	0.8549	
k(absorption)	0.618236		0.640457	0.0007	k(abs/tk ln)
0.640630	0.0007	0.640543	0.0007	0.4341	
k(trk length)	0.630176		0.640803	0.0010	k(tk ln/col)
0.640714	0.0008	0.640665	0.0007	0.5388	
rem life(col)	6.9505E+03		6.8415E+03	0.0009	k(col/abs/tk ln)
0.640628	0.0007	0.640562	0.0007		
rem life(abs)	6.9603E+03		6.8420E+03	0.0009	life(col/abs/tl)
6.8436E+03	0.0007	6.8487E+03	0.0006		
source points generated	4954				

estimator	cycle	557	ave of	507 cycles	combination
simple average	combined average		corr		
k(collision)	0.639244		0.640621	0.0007	k(col/abs)
0.640540	0.0007	0.640520	0.0007	0.8549	
k(absorption)	0.640897		0.640458	0.0007	k(abs/tk ln)
0.640631	0.0007	0.640544	0.0007	0.4341	
k(trk length)	0.640993		0.640804	0.0010	k(tk ln/col)
0.640712	0.0008	0.640663	0.0007	0.5387	
rem life(col)	6.7534E+03		6.8413E+03	0.0009	k(col/abs/tk ln)
0.640628	0.0007	0.640562	0.0007		
rem life(abs)	6.7733E+03		6.8418E+03	0.0009	life(col/abs/tl)
6.8434E+03	0.0007	6.8485E+03	0.0006		
source points generated	5089				

estimator	cycle	558	ave of	508 cycles	combination
simple average	combined average		corr		
k(collision)	0.637986		0.640616	0.0007	k(col/abs)
0.640531	0.0007	0.640510	0.0007	0.8548	
k(absorption)	0.633853		0.640445	0.0007	k(abs/tk ln)
0.640618	0.0007	0.640531	0.0007	0.4344	

k(trk length)	0.634636	0.640792	0.0010	k(tk ln/col)
0.640704	0.0008	0.640656	0.0007	0.5388
rem life(col)	6.8337E+03	6.8413E+03	0.0009	k(col/abs/tk ln)
0.640618	0.0007	0.640551	0.0007	
rem life(abs)	6.8463E+03	6.8419E+03	0.0009	life(col/abs/tl)
6.8434E+03	0.0007	6.8485E+03	0.0006	
source points generated	4972			

estimator	cycle	559	ave of	509 cycles	combination
simple average	combined average		corr		
k(collision)	0.630294		0.640596	0.0007	k(col/abs)
0.640512	0.0007	0.640492	0.0007	0.8550	
k(absorption)	0.632177		0.640429	0.0007	k(abs/tk ln)
0.640631	0.0007	0.640529	0.0007	0.4308	
k(trk length)	0.661917		0.640833	0.0010	k(tk ln/col)
0.640714	0.0008	0.640650	0.0007	0.5343	
rem life(col)	6.6658E+03		6.8409E+03	0.0009	k(col/abs/tk ln)
0.640619	0.0007	0.640546	0.0007		
rem life(abs)	6.6739E+03		6.8415E+03	0.0009	life(col/abs/tl)
6.8431E+03	0.0007	6.8482E+03	0.0006		
source points generated	4933				

estimator	cycle	560	ave of	510 cycles	combination
simple average	combined average		corr		
k(collision)	0.642755		0.640600	0.0007	k(col/abs)
0.640521	0.0007	0.640502	0.0007	0.8549	
k(absorption)	0.647298		0.640442	0.0007	k(abs/tk ln)
0.640644	0.0007	0.640543	0.0007	0.4311	
k(trk length)	0.646939		0.640845	0.0010	k(tk ln/col)
0.640723	0.0008	0.640656	0.0007	0.5344	
rem life(col)	6.8926E+03		6.8410E+03	0.0009	k(col/abs/tk ln)
0.640629	0.0007	0.640558	0.0007		
rem life(abs)	6.8624E+03		6.8416E+03	0.0009	life(col/abs/tl)
6.8431E+03	0.0007	6.8483E+03	0.0006		
source points generated	5100				

estimator	cycle	561	ave of	511 cycles	combination
simple average	combined average		corr		
k(collision)	0.611934		0.640544	0.0007	k(col/abs)
0.640463	0.0007	0.640444	0.0007	0.8570	
k(absorption)	0.609873		0.640383	0.0007	k(abs/tk ln)
0.640569	0.0007	0.640473	0.0007	0.4415	
k(trk length)	0.595320		0.640756	0.0010	k(tk ln/col)
0.640650	0.0008	0.640591	0.0007	0.5419	
rem life(col)	7.0214E+03		6.8414E+03	0.0009	k(col/abs/tk ln)
0.640561	0.0007	0.640492	0.0007		
rem life(abs)	7.0168E+03		6.8419E+03	0.0009	life(col/abs/tl)
6.8435E+03	0.0007	6.8487E+03	0.0006		
source points generated	4705				

estimator	cycle	562	ave of	512 cycles	combination
simple average	combined average		corr		
k(collision)	0.634503		0.640532	0.0007	k(col/abs)
0.640452	0.0007	0.640433	0.0007	0.8571	

k(absorption)	0.635016	0.640372	0.0007	k(abs/tk ln)
0.640554	0.0007	0.640461	0.0007	0.4418
k(trk length)	0.630861	0.640737	0.0010	k(tk ln/col)
0.640634	0.0008	0.640577	0.0007	0.5423
rem life(col)	6.7829E+03	6.8413E+03	0.0009	k(col/abs/tk ln)
0.640547	0.0007	0.640479	0.0007	
rem life(abs)	6.7966E+03	6.8418E+03	0.0008	life(col/abs/tl)
6.8434E+03	0.0007	6.8486E+03	0.0006	
source points generated	5183			

estimator	cycle	563	ave of	513 cycles	combination
simple average	combined average		corr		
k(collision)	0.646433	0.640543	0.0007	k(col/abs)	
0.640465	0.0007	0.640447	0.0007	0.8571	
k(absorption)	0.647963	0.640387	0.0007	k(abs/tk ln)	
0.640557	0.0007	0.640470	0.0007	0.4410	
k(trk length)	0.635457	0.640726	0.0010	k(tk ln/col)	
0.640635	0.0008	0.640584	0.0007	0.5416	
rem life(col)	6.7164E+03	6.8410E+03	0.0009	k(col/abs/tk ln)	
0.640552	0.0007	0.640488	0.0007		
rem life(abs)	6.7108E+03	6.8416E+03	0.0008	life(col/abs/tl)	
6.8432E+03	0.0007	6.8486E+03	0.0006		
source points generated	5089				

estimator	cycle	564	ave of	514 cycles	combination
simple average	combined average		corr		
k(collision)	0.644681	0.640552	0.0007	k(col/abs)	
0.640479	0.0007	0.640463	0.0007	0.8569	
k(absorption)	0.650680	0.640407	0.0007	k(abs/tk ln)	
0.640588	0.0007	0.640495	0.0007	0.4426	
k(trk length)	0.662883	0.640770	0.0010	k(tk ln/col)	
0.640661	0.0008	0.640599	0.0007	0.5414	
rem life(col)	6.9418E+03	6.8412E+03	0.0009	k(col/abs/tk ln)	
0.640576	0.0007	0.640511	0.0007		
rem life(abs)	6.9157E+03	6.8417E+03	0.0008	life(col/abs/tl)	
6.8434E+03	0.0007	6.8487E+03	0.0006		
source points generated	4937				

estimator	cycle	565	ave of	515 cycles	combination
simple average	combined average		corr		
k(collision)	0.644596	0.640559	0.0007	k(col/abs)	
0.640487	0.0007	0.640470	0.0007	0.8570	
k(absorption)	0.644418	0.640415	0.0007	k(abs/tk ln)	
0.640607	0.0007	0.640507	0.0007	0.4428	
k(trk length)	0.656069	0.640799	0.0010	k(tk ln/col)	
0.640679	0.0008	0.640612	0.0007	0.5415	
rem life(col)	6.9266E+03	6.8414E+03	0.0008	k(col/abs/tk ln)	
0.640591	0.0007	0.640523	0.0007		
rem life(abs)	6.9675E+03	6.8419E+03	0.0008	life(col/abs/tl)	
6.8435E+03	0.0007	6.8487E+03	0.0006		
source points generated	4940				

estimator	cycle	566	ave of	516 cycles	combination
simple average	combined average		corr		

k(collision)	0.652209	0.640582	0.0007	k(col/abs)
0.640507	0.0007	0.640489	0.0007	0.8572
k(absorption)	0.649292	0.640432	0.0007	k(abs/tk ln)
0.640621	0.0007	0.640523	0.0007	0.4431
k(trk length)	0.646266	0.640810	0.0010	k(tk ln/col)
0.640696	0.0008	0.640632	0.0007	0.5416
rem life(col)	6.8224E+03	6.8413E+03	0.0008	k(col/abs/tk ln)
0.640608	0.0007	0.640540	0.0007	
rem life(abs)	6.8508E+03	6.8420E+03	0.0008	life(col/abs/tl)
6.8435E+03	0.0007	6.8484E+03	0.0006	
source points generated	5094			

estimator	cycle	567	ave of	517 cycles	combination
simple average	combined average		corr		
k(collision)	0.630118	0.640562	0.0007	k(col/abs)	
0.640487	0.0007	0.640470	0.0007	0.8575	
k(absorption)	0.630487	0.640413	0.0007	k(abs/tk ln)	
0.640619	0.0007	0.640513	0.0007	0.4415	
k(trk length)	0.648647	0.640825	0.0010	k(tk ln/col)	
0.640693	0.0008	0.640620	0.0007	0.5400	
rem life(col)	6.7699E+03	6.8412E+03	0.0008	k(col/abs/tk ln)	
0.640600	0.0007	0.640528	0.0007		
rem life(abs)	6.8317E+03	6.8419E+03	0.0008	life(col/abs/tl)	
6.8434E+03	0.0007	6.8484E+03	0.0006		
source points generated	4840				

estimator	cycle	568	ave of	518 cycles	combination
simple average	combined average		corr		
k(collision)	0.639601	0.640560	0.0007	k(col/abs)	
0.640482	0.0007	0.640464	0.0007	0.8574	
k(absorption)	0.636175	0.640405	0.0007	k(abs/tk ln)	
0.640612	0.0007	0.640505	0.0007	0.4416	
k(trk length)	0.637831	0.640819	0.0010	k(tk ln/col)	
0.640690	0.0008	0.640617	0.0007	0.5400	
rem life(col)	6.8182E+03	6.8412E+03	0.0008	k(col/abs/tk ln)	
0.640595	0.0007	0.640521	0.0007		
rem life(abs)	6.8218E+03	6.8419E+03	0.0008	life(col/abs/tl)	
6.8434E+03	0.0007	6.8483E+03	0.0006		
source points generated	5052				

estimator	cycle	569	ave of	519 cycles	combination
simple average	combined average		corr		
k(collision)	0.631567	0.640543	0.0007	k(col/abs)	
0.640463	0.0007	0.640445	0.0007	0.8576	
k(absorption)	0.629931	0.640384	0.0007	k(abs/tk ln)	
0.640601	0.0007	0.640490	0.0007	0.4412	
k(trk length)	0.640415	0.640818	0.0010	k(tk ln/col)	
0.640680	0.0008	0.640604	0.0007	0.5397	
rem life(col)	6.8490E+03	6.8412E+03	0.0008	k(col/abs/tk ln)	
0.640582	0.0007	0.640506	0.0007		
rem life(abs)	6.8313E+03	6.8419E+03	0.0008	life(col/abs/tl)	
6.8434E+03	0.0007	6.8483E+03	0.0006		
source points generated	4929				

estimator	cycle	570	ave of	520 cycles	combination
simple average	combined average		corr		
k(collision)	0.637474		0.640537	0.0007	k(col/abs)
0.640464	0.0007	0.640447	0.0007	0.8572	
k(absorption)	0.643939		0.640391	0.0007	k(abs/tk ln)
0.640603	0.0007	0.640494	0.0007	0.4411	
k(trk length)	0.638969		0.640815	0.0010	k(tk ln/col)
0.640676	0.0008	0.640598	0.0007	0.5397	
rem life(col)	6.7364E+03		6.8410E+03	0.0008	k(col/abs/tk ln)
0.640581	0.0007	0.640509	0.0007		
rem life(abs)	6.7290E+03		6.8417E+03	0.0008	life(col/abs/tl)
6.8432E+03	0.0007	6.8484E+03	0.0006		
source points generated		5040			

estimator	cycle	571	ave of	521 cycles	combination
simple average	combined average		corr		
k(collision)	0.642479		0.640540	0.0007	k(col/abs)
0.640475	0.0007	0.640460	0.0007	0.8568	
k(absorption)	0.650003		0.640410	0.0007	k(abs/tk ln)
0.640606	0.0007	0.640505	0.0007	0.4398	
k(trk length)	0.634011		0.640802	0.0010	k(tk ln/col)
0.640671	0.0008	0.640598	0.0007	0.5394	
rem life(col)	6.8538E+03		6.8410E+03	0.0008	k(col/abs/tk ln)
0.640584	0.0007	0.640518	0.0007		
rem life(abs)	6.8559E+03		6.8417E+03	0.0008	life(col/abs/tl)
6.8432E+03	0.0007	6.8483E+03	0.0006		
source points generated		5048			

estimator	cycle	572	ave of	522 cycles	combination
simple average	combined average		corr		
k(collision)	0.648124		0.640555	0.0007	k(col/abs)
0.640488	0.0007	0.640473	0.0007	0.8569	
k(absorption)	0.646570		0.640421	0.0007	k(abs/tk ln)
0.640616	0.0007	0.640516	0.0007	0.4399	
k(trk length)	0.644955		0.640810	0.0010	k(tk ln/col)
0.640682	0.0007	0.640612	0.0007	0.5395	
rem life(col)	6.8946E+03		6.8411E+03	0.0008	k(col/abs/tk ln)
0.640595	0.0007	0.640529	0.0007		
rem life(abs)	6.8912E+03		6.8418E+03	0.0008	life(col/abs/tl)
6.8433E+03	0.0007	6.8483E+03	0.0006		
source points generated		5049			

estimator	cycle	573	ave of	523 cycles	combination
simple average	combined average		corr		
k(collision)	0.653744		0.640580	0.0007	k(col/abs)
0.640503	0.0007	0.640485	0.0007	0.8562	
k(absorption)	0.642646		0.640426	0.0007	k(abs/tk ln)
0.640624	0.0007	0.640523	0.0007	0.4400	
k(trk length)	0.647258		0.640822	0.0010	k(tk ln/col)
0.640701	0.0007	0.640634	0.0007	0.5397	
rem life(col)	6.7223E+03		6.8409E+03	0.0008	k(col/abs/tk ln)
0.640609	0.0007	0.640539	0.0007		
rem life(abs)	6.7488E+03		6.8416E+03	0.0008	life(col/abs/tl)
6.8431E+03	0.0007	6.8483E+03	0.0006		

source points generated 5062

estimator	cycle	574	ave of	524 cycles	combination
simple average	combined average		corr		
k(collision)	0.636669		0.640573	0.0007	k(col/abs)
0.640499	0.0007	0.640482	0.0007	0.8561	
k(absorption)	0.640383		0.640426	0.0007	k(abs/tk ln)
0.640606	0.0007	0.640513	0.0007	0.4393	
k(trk length)	0.621955		0.640786	0.0010	k(tk ln/col)
0.640679	0.0007	0.640620	0.0007	0.5396	
rem life(col)	6.8036E+03		6.8408E+03	0.0008	k(col/abs/tk ln)
0.640595	0.0007	0.640530	0.0007		
rem life(abs)	6.7667E+03		6.8415E+03	0.0008	life(col/abs/tl)
6.8430E+03	0.0007	6.8482E+03	0.0006		

source points generated 4862

estimator	cycle	575	ave of	525 cycles	combination
simple average	combined average		corr		
k(collision)	0.631879		0.640556	0.0007	k(col/abs)
0.640485	0.0007	0.640469	0.0007	0.8561	
k(absorption)	0.634689		0.640415	0.0007	k(abs/tk ln)
0.640601	0.0007	0.640505	0.0007	0.4391	
k(trk length)	0.641166		0.640787	0.0010	k(tk ln/col)
0.640671	0.0007	0.640607	0.0007	0.5392	
rem life(col)	6.8109E+03		6.8407E+03	0.0008	k(col/abs/tk ln)
0.640586	0.0007	0.640520	0.0007		
rem life(abs)	6.8360E+03		6.8415E+03	0.0008	life(col/abs/tl)
6.8430E+03	0.0007	6.8483E+03	0.0006		

source points generated 4937

estimator	cycle	576	ave of	526 cycles	combination
simple average	combined average		corr		
k(collision)	0.630814		0.640538	0.0007	k(col/abs)
0.640468	0.0007	0.640451	0.0007	0.8563	
k(absorption)	0.631865		0.640398	0.0007	k(abs/tk ln)
0.640599	0.0007	0.640496	0.0007	0.4380	
k(trk length)	0.647327		0.640799	0.0010	k(tk ln/col)
0.640668	0.0007	0.640596	0.0007	0.5379	
rem life(col)	7.0297E+03		6.8411E+03	0.0008	k(col/abs/tk ln)
0.640578	0.0007	0.640510	0.0007		
rem life(abs)	6.9959E+03		6.8418E+03	0.0008	life(col/abs/tl)
6.8433E+03	0.0007	6.8483E+03	0.0006		

source points generated 5015

estimator	cycle	577	ave of	527 cycles	combination
simple average	combined average		corr		
k(collision)	0.647501		0.640551	0.0007	k(col/abs)
0.640486	0.0007	0.640471	0.0007	0.8563	
k(absorption)	0.652627		0.640422	0.0007	k(abs/tk ln)
0.640611	0.0007	0.640515	0.0007	0.4376	
k(trk length)	0.641839		0.640801	0.0010	k(tk ln/col)
0.640676	0.0007	0.640607	0.0007	0.5378	
rem life(col)	6.9271E+03		6.8413E+03	0.0008	k(col/abs/tk ln)
0.640591	0.0007	0.640527	0.0007		

rem life(abs)	6.9429E+03	6.8419E+03	0.0008	life(col/abs/tl)
6.8435E+03	0.0007	6.8486E+03	0.0006	
source points generated	5176			

estimator	cycle	578	ave of	528 cycles	combination
simple average	combined average		corr		
k(collision)	0.646884		0.640563	0.0007	k(col/abs)
0.640494	0.0007	0.640478	0.0007	0.8562	
k(absorption)	0.642733		0.640426	0.0007	k(abs/tk ln)
0.640599	0.0007	0.640511	0.0007	0.4366	
k(trk length)	0.625159		0.640772	0.0010	k(tk ln/col)
0.640667	0.0007	0.640610	0.0007	0.5357	
rem life(col)	6.9210E+03		6.8414E+03	0.0008	k(col/abs/tk ln)
0.640587	0.0007	0.640526	0.0007		
rem life(abs)	6.9382E+03		6.8421E+03	0.0008	life(col/abs/tl)
6.8436E+03	0.0007	6.8487E+03	0.0006		
source points generated	5016				

estimator	cycle	579	ave of	529 cycles	combination
simple average	combined average		corr		
k(collision)	0.638295		0.640559	0.0007	k(col/abs)
0.640490	0.0007	0.640474	0.0007	0.8562	
k(absorption)	0.637936		0.640421	0.0007	k(abs/tk ln)
0.640613	0.0007	0.640515	0.0007	0.4354	
k(trk length)	0.657919		0.640804	0.0010	k(tk ln/col)
0.640681	0.0007	0.640614	0.0007	0.5345	
rem life(col)	6.8880E+03		6.8415E+03	0.0008	k(col/abs/tk ln)
0.640595	0.0007	0.640529	0.0007		
rem life(abs)	6.8919E+03		6.8422E+03	0.0008	life(col/abs/tl)
6.8438E+03	0.0007	6.8489E+03	0.0006		
source points generated	4927				

estimator	cycle	580	ave of	530 cycles	combination
simple average	combined average		corr		
k(collision)	0.654670		0.640585	0.0007	k(col/abs)
0.640511	0.0007	0.640493	0.0007	0.8563	
k(absorption)	0.648404		0.640436	0.0007	k(abs/tk ln)
0.640633	0.0007	0.640533	0.0007	0.4362	
k(trk length)	0.654700		0.640830	0.0010	k(tk ln/col)
0.640708	0.0007	0.640640	0.0007	0.5356	
rem life(col)	6.7700E+03		6.8414E+03	0.0008	k(col/abs/tk ln)
0.640617	0.0007	0.640548	0.0007		
rem life(abs)	6.7992E+03		6.8421E+03	0.0008	life(col/abs/tl)
6.8436E+03	0.0007	6.8487E+03	0.0006		
source points generated	5104				

estimator	cycle	581	ave of	531 cycles	combination
simple average	combined average		corr		
k(collision)	0.637697		0.640580	0.0007	k(col/abs)
0.640509	0.0007	0.640491	0.0007	0.8562	
k(absorption)	0.641063		0.640438	0.0007	k(abs/tk ln)
0.640617	0.0007	0.640525	0.0007	0.4354	
k(trk length)	0.622338		0.640795	0.0010	k(tk ln/col)
0.640688	0.0007	0.640628	0.0007	0.5353	

rem life(col)	6.9042E+03	6.8415E+03	0.0008	k(col/abs/tk ln)
0.640604	0.0007	0.640540	0.0007	
rem life(abs)	6.9217E+03	6.8423E+03	0.0008	life(col/abs/tl)
6.8438E+03	0.0007	6.8488E+03	0.0006	
source points generated	4880			

estimator	cycle	582	ave of	532 cycles	combination
simple average			combined average	corr	
k(collision)	0.639145		0.640577	0.0007	k(col/abs)
0.640499	0.0007	0.640481	0.0007	0.8558	
k(absorption)	0.631845		0.640421	0.0007	k(abs/tk ln)
0.640598	0.0007	0.640507	0.0007	0.4361	
k(trk length)	0.629584		0.640774	0.0010	k(tk ln/col)
0.640676	0.0007	0.640621	0.0007	0.5352	
rem life(col)	6.8132E+03		6.8414E+03	0.0008	k(col/abs/tk ln)
0.640591	0.0007	0.640525	0.0007		
rem life(abs)	6.8487E+03		6.8423E+03	0.0008	life(col/abs/tl)
6.8438E+03	0.0007	6.8488E+03	0.0006		
source points generated	5058				

estimator	cycle	583	ave of	533 cycles	combination
simple average			combined average	corr	
k(collision)	0.632606		0.640562	0.0007	k(col/abs)
0.640500	0.0007	0.640486	0.0007	0.8536	
k(absorption)	0.649191		0.640438	0.0007	k(abs/tk ln)
0.640598	0.0007	0.640516	0.0007	0.4346	
k(trk length)	0.631755		0.640757	0.0010	k(tk ln/col)
0.640660	0.0007	0.640606	0.0007	0.5356	
rem life(col)	6.8431E+03		6.8414E+03	0.0008	k(col/abs/tk ln)
0.640586	0.0007	0.640529	0.0007		
rem life(abs)	6.8283E+03		6.8423E+03	0.0008	life(col/abs/tl)
6.8437E+03	0.0007	6.8488E+03	0.0006		
source points generated	4968				

estimator	cycle	584	ave of	534 cycles	combination
simple average			combined average	corr	
k(collision)	0.623114		0.640529	0.0007	k(col/abs)
0.640475	0.0007	0.640461	0.0007	0.8537	
k(absorption)	0.630855		0.640420	0.0007	k(abs/tk ln)
0.640569	0.0007	0.640492	0.0007	0.4359	
k(trk length)	0.619291		0.640717	0.0010	k(tk ln/col)
0.640623	0.0007	0.640571	0.0007	0.5378	
rem life(col)	7.0438E+03		6.8418E+03	0.0008	k(col/abs/tk ln)
0.640556	0.0007	0.640503	0.0007		
rem life(abs)	7.0449E+03		6.8427E+03	0.0008	life(col/abs/tl)
6.8441E+03	0.0007	6.8492E+03	0.0006		
source points generated	4898				

estimator	cycle	585	ave of	535 cycles	combination
simple average			combined average	corr	
k(collision)	0.633011		0.640515	0.0007	k(col/abs)
0.640465	0.0007	0.640453	0.0007	0.8535	
k(absorption)	0.638028		0.640415	0.0007	k(abs/tk ln)
0.640549	0.0007	0.640480	0.0007	0.4358	

k(trk length)	0.622296	0.640683	0.0010	k(tk ln/col)
0.640599	0.0007	0.640552	0.0007	0.5384
rem life(col)	6.9435E+03	6.8420E+03	0.0008	k(col/abs/tk ln)
0.640538	0.0007	0.640490	0.0007	
rem life(abs)	6.8966E+03	6.8428E+03	0.0008	life(col/abs/tl)
6.8443E+03	0.0007	6.8495E+03	0.0006	
source points generated	5100			

estimator	cycle	586	ave of	536 cycles	combination
simple average	combined average		corr		
k(collision)	0.623388	0.640483	0.0007	k(col/abs)	
0.640434	0.0007	0.640422	0.0007	0.8542	
k(absorption)	0.623825	0.640385	0.0007	k(abs/tk ln)	
0.640534	0.0007	0.640457	0.0007	0.4346	
k(trk length)	0.641365	0.640684	0.0010	k(tk ln/col)	
0.640584	0.0007	0.640528	0.0007	0.5369	
rem life(col)	7.0375E+03	6.8424E+03	0.0008	k(col/abs/tk ln)	
0.640517	0.0007	0.640466	0.0007		
rem life(abs)	6.9936E+03	6.8430E+03	0.0008	life(col/abs/tl)	
6.8446E+03	0.0007	6.8496E+03	0.0006		
source points generated	4905				

estimator	cycle	587	ave of	537 cycles	combination
simple average	combined average		corr		
k(collision)	0.659601	0.640519	0.0007	k(col/abs)	
0.640459	0.0007	0.640443	0.0007	0.8538	
k(absorption)	0.648272	0.640399	0.0007	k(abs/tk ln)	
0.640566	0.0007	0.640480	0.0007	0.4356	
k(trk length)	0.667348	0.640734	0.0010	k(tk ln/col)	
0.640626	0.0007	0.640566	0.0007	0.5398	
rem life(col)	6.8911E+03	6.8425E+03	0.0008	k(col/abs/tk ln)	
0.640551	0.0007	0.640491	0.0007		
rem life(abs)	6.9126E+03	6.8432E+03	0.0008	life(col/abs/tl)	
6.8446E+03	0.0007	6.8495E+03	0.0006		
source points generated	5287				

estimator	cycle	588	ave of	538 cycles	combination
simple average	combined average		corr		
k(collision)	0.634792	0.640508	0.0007	k(col/abs)	
0.640461	0.0007	0.640448	0.0007	0.8524	
k(absorption)	0.647829	0.640413	0.0007	k(abs/tk ln)	
0.640574	0.0007	0.640491	0.0007	0.4355	
k(trk length)	0.641460	0.640735	0.0010	k(tk ln/col)	
0.640622	0.0007	0.640559	0.0007	0.5396	
rem life(col)	6.8014E+03	6.8424E+03	0.0008	k(col/abs/tk ln)	
0.640552	0.0007	0.640498	0.0007		
rem life(abs)	6.7910E+03	6.8431E+03	0.0008	life(col/abs/tl)	
6.8445E+03	0.0007	6.8494E+03	0.0006		
source points generated	4845				

estimator	cycle	589	ave of	539 cycles	combination
simple average	combined average		corr		
k(collision)	0.649562	0.640525	0.0007	k(col/abs)	
0.640459	0.0007	0.640442	0.0007	0.8493	

k(absorption)	0.629194	0.640392	0.0007	k(abs/tk ln)
0.640579	0.0007	0.640483	0.0007	0.4320
k(trk length)	0.657831	0.640767	0.0010	k(tk ln/col)
0.640646	0.0007	0.640578	0.0007	0.5404
rem life(col)	6.9736E+03	6.8426E+03	0.0008	k(col/abs/tk ln)
0.640561	0.0007	0.640495	0.0007	
rem life(abs)	7.0129E+03	6.8434E+03	0.0008	life(col/abs/tl)
6.8448E+03	0.0007	6.8497E+03	0.0006	
source points generated	5126			

estimator	cycle	590	ave of	540 cycles	combination
simple average	combined average		corr		
k(collision)	0.652077	0.640547	0.0007	k(col/abs)	
0.640480	0.0007	0.640464	0.0007	0.8496	
k(absorption)	0.652151	0.640414	0.0007	k(abs/tk ln)	
0.640591	0.0007	0.640500	0.0007	0.4316	
k(trk length)	0.641474	0.640768	0.0010	k(tk ln/col)	
0.640657	0.0007	0.640596	0.0007	0.5399	
rem life(col)	6.8134E+03	6.8426E+03	0.0008	k(col/abs/tk ln)	
0.640576	0.0007	0.640513	0.0007		
rem life(abs)	6.8182E+03	6.8433E+03	0.0008	life(col/abs/tl)	
6.8448E+03	0.0007	6.8498E+03	0.0006		
source points generated	4982				

estimator	cycle	591	ave of	541 cycles	combination
simple average	combined average		corr		
k(collision)	0.628422	0.640524	0.0007	k(col/abs)	
0.640464	0.0007	0.640449	0.0007	0.8494	
k(absorption)	0.635248	0.640404	0.0007	k(abs/tk ln)	
0.640575	0.0007	0.640487	0.0007	0.4320	
k(trk length)	0.628284	0.640745	0.0010	k(tk ln/col)	
0.640635	0.0007	0.640573	0.0007	0.5407	
rem life(col)	6.9439E+03	6.8428E+03	0.0008	k(col/abs/tk ln)	
0.640558	0.0007	0.640498	0.0007		
rem life(abs)	6.9058E+03	6.8435E+03	0.0008	life(col/abs/tl)	
6.8450E+03	0.0007	6.8501E+03	0.0006		
source points generated	4852				

estimator	cycle	592	ave of	542 cycles	combination
simple average	combined average		corr		
k(collision)	0.643999	0.640530	0.0007	k(col/abs)	
0.640459	0.0007	0.640441	0.0007	0.8482	
k(absorption)	0.631277	0.640388	0.0007	k(abs/tk ln)	
0.640579	0.0007	0.640481	0.0007	0.4297	
k(trk length)	0.654704	0.640771	0.0009	k(tk ln/col)	
0.640651	0.0007	0.640584	0.0007	0.5408	
rem life(col)	7.2032E+03	6.8434E+03	0.0008	k(col/abs/tk ln)	
0.640563	0.0007	0.640494	0.0007		
rem life(abs)	7.2081E+03	6.8441E+03	0.0008	life(col/abs/tl)	
6.8455E+03	0.0007	6.8502E+03	0.0006		
source points generated	5128				

estimator	cycle	593	ave of	543 cycles	combination
simple average	combined average		corr		

k(collision)	0.646632	0.640542	0.0007	k(col/abs)
0.640472	0.0007	0.640454	0.0007	0.8483
k(absorption)	0.648223	0.640402	0.0007	k(abs/tk ln)
0.640581	0.0007	0.640490	0.0007	0.4289
k(trk length)	0.635388	0.640761	0.0009	k(tk ln/col)
0.640651	0.0007	0.640590	0.0007	0.5402
rem life(col)	6.9334E+03	6.8436E+03	0.0008	k(col/abs/tk ln)
0.640568	0.0007	0.640503	0.0007	
rem life(abs)	6.9040E+03	6.8442E+03	0.0008	life(col/abs/tl)
6.8456E+03	0.0007	6.8503E+03	0.0006	
source points generated	5084			

estimator	cycle	594	ave of	544 cycles	combination
simple average	combined average		corr		
k(collision)	0.646101	0.640552	0.0007	k(col/abs)	
0.640479	0.0007	0.640461	0.0007	0.8483	
k(absorption)	0.642704	0.640406	0.0007	k(abs/tk ln)	
0.640575	0.0007	0.640489	0.0007	0.4284	
k(trk length)	0.631670	0.640744	0.0009	k(tk ln/col)	
0.640648	0.0007	0.640595	0.0007	0.5392	
rem life(col)	6.8011E+03	6.8435E+03	0.0008	k(col/abs/tk ln)	
0.640567	0.0007	0.640504	0.0007		
rem life(abs)	6.8230E+03	6.8442E+03	0.0008	life(col/abs/tl)	
6.8455E+03	0.0007	6.8501E+03	0.0006		
source points generated	4970				

estimator	cycle	595	ave of	545 cycles	combination
simple average	combined average		corr		
k(collision)	0.629445	0.640532	0.0007	k(col/abs)	
0.640464	0.0007	0.640446	0.0007	0.8483	
k(absorption)	0.634671	0.640396	0.0007	k(abs/tk ln)	
0.640550	0.0007	0.640471	0.0007	0.4289	
k(trk length)	0.619234	0.640705	0.0009	k(tk ln/col)	
0.640618	0.0007	0.640570	0.0007	0.5404	
rem life(col)	6.8473E+03	6.8435E+03	0.0008	k(col/abs/tk ln)	
0.640544	0.0007	0.640485	0.0007		
rem life(abs)	6.7998E+03	6.8441E+03	0.0008	life(col/abs/tl)	
6.8455E+03	0.0007	6.8499E+03	0.0006		
source points generated	4905				

estimator	cycle	596	ave of	546 cycles	combination
simple average	combined average		corr		
k(collision)	0.628430	0.640509	0.0007	k(col/abs)	
0.640447	0.0007	0.640431	0.0007	0.8482	
k(absorption)	0.634339	0.640385	0.0007	k(abs/tk ln)	
0.640531	0.0007	0.640456	0.0007	0.4295	
k(trk length)	0.625950	0.640678	0.0009	k(tk ln/col)	
0.640594	0.0007	0.640546	0.0007	0.5414	
rem life(col)	6.7826E+03	6.8434E+03	0.0008	k(col/abs/tk ln)	
0.640524	0.0007	0.640468	0.0007		
rem life(abs)	6.7794E+03	6.8440E+03	0.0008	life(col/abs/tl)	
6.8454E+03	0.0007	6.8499E+03	0.0006		
source points generated	5021				

estimator	cycle	597	ave of	547 cycles	combination
simple average	combined average		corr		
k(collision)	0.633883		0.640497	0.0007	k(col/abs)
0.640437	0.0007	0.640421	0.0007	0.8483	
k(absorption)	0.636279		0.640377	0.0007	k(abs/tk ln)
0.640515	0.0007	0.640444	0.0007	0.4298	
k(trk length)	0.627023		0.640653	0.0009	k(tk ln/col)
0.640575	0.0007	0.640531	0.0007	0.5418	
rem life(col)	6.7776E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640509	0.0007	0.640456	0.0007		
rem life(abs)	6.7800E+03		6.8439E+03	0.0008	life(col/abs/tl)
6.8453E+03	0.0007	6.8500E+03	0.0006		
source points generated 5013					

estimator	cycle	598	ave of	548 cycles	combination
simple average	combined average		corr		
k(collision)	0.629059		0.640476	0.0007	k(col/abs)
0.640419	0.0007	0.640404	0.0007	0.8485	
k(absorption)	0.631624		0.640361	0.0007	k(abs/tk ln)
0.640498	0.0007	0.640427	0.0007	0.4303	
k(trk length)	0.631185		0.640635	0.0009	k(tk ln/col)
0.640556	0.0007	0.640511	0.0007	0.5424	
rem life(col)	6.8266E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640491	0.0007	0.640439	0.0007		
rem life(abs)	6.8186E+03		6.8438E+03	0.0008	life(col/abs/tl)
6.8453E+03	0.0007	6.8500E+03	0.0006		
source points generated 4923					

estimator	cycle	599	ave of	549 cycles	combination
simple average	combined average		corr		
k(collision)	0.631043		0.640459	0.0007	k(col/abs)
0.640405	0.0007	0.640390	0.0007	0.8486	
k(absorption)	0.634166		0.640350	0.0007	k(abs/tk ln)
0.640485	0.0007	0.640415	0.0007	0.4307	
k(trk length)	0.632492		0.640621	0.0009	k(tk ln/col)
0.640540	0.0007	0.640495	0.0007	0.5427	
rem life(col)	6.7744E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640477	0.0007	0.640425	0.0007		
rem life(abs)	6.7637E+03		6.8437E+03	0.0008	life(col/abs/tl)
6.8452E+03	0.0007	6.8500E+03	0.0006		
source points generated 4996					

estimator	cycle	600	ave of	550 cycles	combination
simple average	combined average		corr		
k(collision)	0.636381		0.640452	0.0007	k(col/abs)
0.640393	0.0007	0.640377	0.0007	0.8485	
k(absorption)	0.631589		0.640334	0.0007	k(abs/tk ln)
0.640468	0.0007	0.640399	0.0007	0.4313	
k(trk length)	0.630409		0.640602	0.0009	k(tk ln/col)
0.640527	0.0007	0.640485	0.0007	0.5429	
rem life(col)	7.0010E+03		6.8434E+03	0.0008	k(col/abs/tk ln)
0.640463	0.0007	0.640410	0.0007		
rem life(abs)	7.0161E+03		6.8440E+03	0.0008	life(col/abs/tl)
6.8454E+03	0.0007	6.8500E+03	0.0006		

source points generated 5034

estimator	cycle	601	ave of	551 cycles	combination
simple average		combined average		corr	
k(collision)		0.640259		0.640451 0.0007	k(col/abs)
0.640391 0.0007		0.640375	0.0007	0.8485	
k(absorption)		0.638742		0.640331 0.0007	k(abs/tk ln)
0.640469 0.0007		0.640398	0.0007	0.4313	
k(trk length)		0.643236		0.640607 0.0009	k(tk ln/col)
0.640529 0.0007		0.640486	0.0007	0.5429	
rem life(col)		6.8205E+03		6.8434E+03 0.0008	k(col/abs/tk ln)
0.640463 0.0007		0.640410	0.0006		
rem life(abs)		6.8288E+03		6.8440E+03 0.0008	life(col/abs/tl)
6.8455E+03 0.0007		6.8503E+03	0.0006		

source points generated 5037

estimator	cycle	602	ave of	552 cycles	combination
simple average		combined average		corr	
k(collision)		0.629530		0.640432 0.0007	k(col/abs)
0.640368 0.0007		0.640352	0.0007	0.8487	
k(absorption)		0.626013		0.640305 0.0007	k(abs/tk ln)
0.640439 0.0007		0.640370	0.0007	0.4332	
k(trk length)		0.621728		0.640573 0.0009	k(tk ln/col)
0.640502 0.0007		0.640462	0.0007	0.5440	
rem life(col)		6.7155E+03		6.8432E+03 0.0008	k(col/abs/tk ln)
0.640436 0.0007		0.640383	0.0006		
rem life(abs)		6.7359E+03		6.8438E+03 0.0008	life(col/abs/tl)
6.8453E+03 0.0007		6.8503E+03	0.0006		

source points generated 4930

estimator	cycle	603	ave of	553 cycles	combination
simple average		combined average		corr	
k(collision)		0.629815		0.640412 0.0007	k(col/abs)
0.640356 0.0007		0.640341	0.0007	0.8485	
k(absorption)		0.636714		0.640299 0.0007	k(abs/tk ln)
0.640415 0.0007		0.640354	0.0007	0.4331	
k(trk length)		0.617465		0.640531 0.0009	k(tk ln/col)
0.640472 0.0007		0.640438	0.0007	0.5451	
rem life(col)		6.7044E+03		6.8429E+03 0.0008	k(col/abs/tk ln)
0.640414 0.0007		0.640366	0.0006		
rem life(abs)		6.7071E+03		6.8435E+03 0.0008	life(col/abs/tl)
6.8451E+03 0.0007		6.8503E+03	0.0006		

source points generated 5024

estimator	cycle	604	ave of	554 cycles	combination
simple average		combined average		corr	
k(collision)		0.638459		0.640409 0.0007	k(col/abs)
0.640359 0.0007		0.640346	0.0007	0.8480	
k(absorption)		0.646515		0.640310 0.0007	k(abs/tk ln)
0.640419 0.0007		0.640362	0.0007	0.4328	
k(trk length)		0.638944		0.640528 0.0009	k(tk ln/col)
0.640468 0.0007		0.640435	0.0007	0.5451	
rem life(col)		6.9614E+03		6.8431E+03 0.0008	k(col/abs/tk ln)
0.640416 0.0007		0.640372	0.0006		

rem life(abs)	6.9210E+03	6.8437E+03	0.0008	life(col/abs/tl)
6.8453E+03	0.0007	6.8504E+03	0.0006	
source points generated	5096			

estimator	cycle	605	ave of	555 cycles	combination
simple average	combined average		corr		
k(collision)	0.642596		0.640413	0.0007	k(col/abs)
0.640362	0.0007	0.640349	0.0007	0.8480	
k(absorption)	0.641326		0.640312	0.0007	k(abs/tk ln)
0.640434	0.0007	0.640370	0.0006	0.4325	
k(trk length)	0.656690		0.640557	0.0009	k(tk ln/col)
0.640485	0.0007	0.640444	0.0007	0.5449	
rem life(col)	6.9522E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640427	0.0007	0.640380	0.0006		
rem life(abs)	6.9252E+03		6.8438E+03	0.0008	life(col/abs/tl)
6.8454E+03	0.0007	6.8505E+03	0.0006		
source points generated	5000				

estimator	cycle	606	ave of	556 cycles	combination
simple average	combined average		corr		
k(collision)	0.648179		0.640427	0.0007	k(col/abs)
0.640376	0.0007	0.640362	0.0007	0.8482	
k(absorption)	0.647523		0.640325	0.0007	k(abs/tk ln)
0.640439	0.0007	0.640379	0.0006	0.4321	
k(trk length)	0.638171		0.640553	0.0009	k(tk ln/col)
0.640490	0.0007	0.640454	0.0007	0.5444	
rem life(col)	6.9035E+03		6.8434E+03	0.0008	k(col/abs/tk ln)
0.640435	0.0007	0.640390	0.0006		
rem life(abs)	6.8944E+03		6.8439E+03	0.0008	life(col/abs/tl)
6.8455E+03	0.0007	6.8506E+03	0.0006		
source points generated	5007				

estimator	cycle	607	ave of	557 cycles	combination
simple average	combined average		corr		
k(collision)	0.647414		0.640439	0.0007	k(col/abs)
0.640384	0.0007	0.640370	0.0007	0.8481	
k(absorption)	0.642962		0.640329	0.0007	k(abs/tk ln)
0.640462	0.0007	0.640393	0.0006	0.4318	
k(trk length)	0.664280		0.640595	0.0009	k(tk ln/col)
0.640517	0.0007	0.640473	0.0007	0.5448	
rem life(col)	6.6402E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640455	0.0007	0.640403	0.0006		
rem life(abs)	6.6698E+03		6.8436E+03	0.0008	life(col/abs/tl)
6.8452E+03	0.0007	6.8504E+03	0.0006		
source points generated	5006				

estimator	cycle	608	ave of	558 cycles	combination
simple average	combined average		corr		
k(collision)	0.658272		0.640471	0.0007	k(col/abs)
0.640405	0.0007	0.640386	0.0007	0.8472	
k(absorption)	0.645284		0.640338	0.0007	k(abs/tk ln)
0.640462	0.0007	0.640397	0.0006	0.4313	
k(trk length)	0.634898		0.640585	0.0009	k(tk ln/col)
0.640528	0.0007	0.640496	0.0007	0.5421	

rem life(col)	6.7065E+03	6.8428E+03	0.0008	k(col/abs/tk ln)
0.640465	0.0007	0.640412	0.0006	
rem life(abs)	6.7399E+03	6.8434E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8503E+03	0.0006	
source points generated	5040			

estimator	cycle	609	ave of	559 cycles	combination
simple average	combined average		corr		
k(collision)	0.630255		0.640453	0.0007	k(col/abs)
0.640396	0.0007	0.640380	0.0007	0.8465	
k(absorption)	0.640640		0.640339	0.0007	k(abs/tk ln)
0.640449	0.0007	0.640391	0.0006	0.4308	
k(trk length)	0.625697		0.640559	0.0009	k(tk ln/col)
0.640506	0.0007	0.640476	0.0007	0.5429	
rem life(col)	6.7656E+03	6.8427E+03	0.0008	k(col/abs/tk ln)	
0.640450	0.0007	0.640403	0.0006		
rem life(abs)	6.7615E+03	6.8433E+03	0.0008	life(col/abs/tl)	
6.8449E+03	0.0007	6.8502E+03	0.0006		
source points generated	4793				

estimator	cycle	610	ave of	560 cycles	combination
simple average	combined average		corr		
k(collision)	0.618070		0.640413	0.0007	k(col/abs)
0.640363	0.0007	0.640348	0.0007	0.8470	
k(absorption)	0.625636		0.640313	0.0007	k(abs/tk ln)
0.640400	0.0007	0.640353	0.0006	0.4341	
k(trk length)	0.601205		0.640488	0.0009	k(tk ln/col)
0.640451	0.0007	0.640429	0.0007	0.5474	
rem life(col)	7.1318E+03	6.8432E+03	0.0008	k(col/abs/tk ln)	
0.640405	0.0007	0.640364	0.0006		
rem life(abs)	7.0806E+03	6.8437E+03	0.0008	life(col/abs/tl)	
6.8453E+03	0.0007	6.8504E+03	0.0006		
source points generated	4945				

estimator	cycle	611	ave of	561 cycles	combination
simple average	combined average		corr		
k(collision)	0.623160		0.640382	0.0007	k(col/abs)
0.640330	0.0007	0.640314	0.0007	0.8478	
k(absorption)	0.620392		0.640277	0.0007	k(abs/tk ln)
0.640366	0.0007	0.640318	0.0006	0.4365	
k(trk length)	0.621985		0.640455	0.0009	k(tk ln/col)
0.640419	0.0007	0.640398	0.0007	0.5490	
rem life(col)	7.0701E+03	6.8436E+03	0.0008	k(col/abs/tk ln)	
0.640372	0.0007	0.640330	0.0006		
rem life(abs)	7.0731E+03	6.8441E+03	0.0008	life(col/abs/tl)	
6.8457E+03	0.0007	6.8508E+03	0.0006		
source points generated	5033				

estimator	cycle	612	ave of	562 cycles	combination
simple average	combined average		corr		
k(collision)	0.647069		0.640394	0.0007	k(col/abs)
0.640341	0.0007	0.640326	0.0007	0.8479	
k(absorption)	0.646661		0.640288	0.0007	k(abs/tk ln)
0.640354	0.0007	0.640319	0.0006	0.4340	

k(trk length)	0.620591	0.640420	0.0009	k(tk ln/col)
0.640407	0.0007	0.640400	0.0007	0.5464
rem life(col)	6.8156E+03	6.8435E+03	0.0008	k(col/abs/tk ln)
0.640368	0.0007	0.640332	0.0006	
rem life(abs)	6.8153E+03	6.8440E+03	0.0008	life(col/abs/tl)
6.8457E+03	0.0007	6.8507E+03	0.0006	
source points generated	5215			

estimator	cycle	613	ave of	563 cycles	combination
simple average	combined average		corr		
k(collision)	0.631139		0.640378	0.0007	k(col/abs)
0.640326	0.0007	0.640311	0.0007	0.8480	
k(absorption)	0.632721		0.640275	0.0007	k(abs/tk ln)
0.640340	0.0007	0.640305	0.0006	0.4345	
k(trk length)	0.631498		0.640404	0.0009	k(tk ln/col)
0.640391	0.0007	0.640383	0.0007	0.5468	
rem life(col)	6.6851E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640352	0.0007	0.640318	0.0006		
rem life(abs)	6.6864E+03		6.8438E+03	0.0008	life(col/abs/tl)
6.8454E+03	0.0007	6.8506E+03	0.0006		
source points generated	4904				

estimator	cycle	614	ave of	564 cycles	combination
simple average	combined average		corr		
k(collision)	0.623923		0.640349	0.0007	k(col/abs)
0.640298	0.0007	0.640284	0.0007	0.8486	
k(absorption)	0.625225		0.640248	0.0007	k(abs/tk ln)
0.640296	0.0007	0.640270	0.0006	0.4376	
k(trk length)	0.606631		0.640344	0.0009	k(tk ln/col)
0.640346	0.0007	0.640348	0.0007	0.5493	
rem life(col)	6.8010E+03		6.8432E+03	0.0008	k(col/abs/tk ln)
0.640314	0.0007	0.640284	0.0006		
rem life(abs)	6.8035E+03		6.8437E+03	0.0008	life(col/abs/tl)
6.8453E+03	0.0007	6.8505E+03	0.0006		
source points generated	4956				

estimator	cycle	615	ave of	565 cycles	combination
simple average	combined average		corr		
k(collision)	0.639903		0.640348	0.0007	k(col/abs)
0.640298	0.0007	0.640284	0.0007	0.8486	
k(absorption)	0.640292		0.640248	0.0007	k(abs/tk ln)
0.640305	0.0007	0.640275	0.0006	0.4374	
k(trk length)	0.650769		0.640363	0.0009	k(tk ln/col)
0.640355	0.0007	0.640351	0.0007	0.5490	
rem life(col)	6.9536E+03		6.8434E+03	0.0008	k(col/abs/tk ln)
0.640320	0.0007	0.640287	0.0006		
rem life(abs)	6.9496E+03		6.8439E+03	0.0008	life(col/abs/tl)
6.8455E+03	0.0007	6.8506E+03	0.0006		
source points generated	5142				

estimator	cycle	616	ave of	566 cycles	combination
simple average	combined average		corr		
k(collision)	0.635862		0.640340	0.0007	k(col/abs)
0.640292	0.0007	0.640278	0.0007	0.8486	

k(absorption)	0.638105	0.640245	0.0007	k(abs/tk ln)
0.640296	0.0007	0.640268	0.0006	0.4375
k(trk length)	0.632216	0.640348	0.0009	k(tk ln/col)
0.640344	0.0007	0.640342	0.0007	0.5492
rem life(col)	6.7380E+03	6.8432E+03	0.0008	k(col/abs/tk ln)
0.640311	0.0007	0.640281	0.0006	
rem life(abs)	6.7412E+03	6.8437E+03	0.0008	life(col/abs/tl)
6.8454E+03	0.0007	6.8507E+03	0.0006	
source points generated	4975			

estimator	cycle	617	ave of	567 cycles	combination
simple average	combined average		corr		
k(collision)	0.639792	0.640339	0.0007	k(col/abs)	
0.640284	0.0007	0.640269	0.0007	0.8482	
k(absorption)	0.631990	0.640230	0.0007	k(abs/tk ln)	
0.640296	0.0007	0.640260	0.0006	0.4364	
k(trk length)	0.648067	0.640362	0.0009	k(tk ln/col)	
0.640350	0.0007	0.640344	0.0007	0.5490	
rem life(col)	6.7597E+03	6.8431E+03	0.0008	k(col/abs/tk ln)	
0.640310	0.0007	0.640274	0.0006		
rem life(abs)	6.7863E+03	6.8436E+03	0.0008	life(col/abs/tl)	
6.8453E+03	0.0007	6.8506E+03	0.0006		
source points generated	5000				

estimator	cycle	618	ave of	568 cycles	combination
simple average	combined average		corr		
k(collision)	0.629560	0.640320	0.0007	k(col/abs)	
0.640271	0.0007	0.640257	0.0007	0.8481	
k(absorption)	0.635880	0.640222	0.0007	k(abs/tk ln)	
0.640286	0.0007	0.640252	0.0006	0.4366	
k(trk length)	0.633792	0.640350	0.0009	k(tk ln/col)	
0.640335	0.0007	0.640326	0.0007	0.5492	
rem life(col)	6.7005E+03	6.8428E+03	0.0008	k(col/abs/tk ln)	
0.640298	0.0007	0.640264	0.0006		
rem life(abs)	6.6963E+03	6.8433E+03	0.0008	life(col/abs/tl)	
6.8450E+03	0.0007	6.8505E+03	0.0006		
source points generated	4918				

estimator	cycle	619	ave of	569 cycles	combination
simple average	combined average		corr		
k(collision)	0.636784	0.640314	0.0007	k(col/abs)	
0.640255	0.0007	0.640238	0.0007	0.8472	
k(absorption)	0.624793	0.640195	0.0007	k(abs/tk ln)	
0.640272	0.0007	0.640231	0.0006	0.4358	
k(trk length)	0.639845	0.640349	0.0009	k(tk ln/col)	
0.640332	0.0007	0.640321	0.0007	0.5492	
rem life(col)	6.9754E+03	6.8430E+03	0.0008	k(col/abs/tk ln)	
0.640286	0.0007	0.640246	0.0006		
rem life(abs)	6.9975E+03	6.8436E+03	0.0008	life(col/abs/tl)	
6.8452E+03	0.0007	6.8505E+03	0.0006		
source points generated	5071				

estimator	cycle	620	ave of	570 cycles	combination
simple average	combined average		corr		

k(collision)	0.644870	0.640322	0.0007	k(col/abs)
0.640259	0.0007	0.640241	0.0007	0.8471
k(absorption)	0.640628	0.640196	0.0007	k(abs/tk ln)
0.640285	0.0007	0.640237	0.0006	0.4355
k(trk length)	0.654274	0.640374	0.0009	k(tk ln/col)
0.640348	0.0007	0.640333	0.0007	0.5494
rem life(col)	6.8729E+03	6.8431E+03	0.0008	k(col/abs/tk ln)
0.640297	0.0007	0.640253	0.0006	
rem life(abs)	6.8621E+03	6.8436E+03	0.0008	life(col/abs/tl)
6.8453E+03	0.0007	6.8506E+03	0.0006	
source points generated	5047			

estimator	cycle	621	ave of	571 cycles	combination
simple average	combined	average	corr		
k(collision)	0.644209	0.640329	0.0007	k(col/abs)	
0.640261	0.0007	0.640242	0.0007	0.8469	
k(absorption)	0.639119	0.640194	0.0007	k(abs/tk ln)	
0.640300	0.0007	0.640243	0.0006	0.4347	
k(trk length)	0.658135	0.640405	0.0009	k(tk ln/col)	
0.640367	0.0007	0.640344	0.0007	0.5494	
rem life(col)	6.7163E+03	6.8429E+03	0.0008	k(col/abs/tk ln)	
0.640309	0.0007	0.640259	0.0006		
rem life(abs)	6.7368E+03	6.8435E+03	0.0008	life(col/abs/tl)	
6.8451E+03	0.0007	6.8505E+03	0.0006		
source points generated	4957				

estimator	cycle	622	ave of	572 cycles	combination
simple average	combined	average	corr		
k(collision)	0.641961	0.640331	0.0007	k(col/abs)	
0.640253	0.0007	0.640232	0.0007	0.8457	
k(absorption)	0.629003	0.640175	0.0007	k(abs/tk ln)	
0.640303	0.0007	0.640234	0.0006	0.4317	
k(trk length)	0.655929	0.640432	0.0009	k(tk ln/col)	
0.640382	0.0007	0.640352	0.0007	0.5491	
rem life(col)	6.8755E+03	6.8429E+03	0.0008	k(col/abs/tk ln)	
0.640313	0.0007	0.640253	0.0006		
rem life(abs)	6.9081E+03	6.8436E+03	0.0008	life(col/abs/tl)	
6.8452E+03	0.0007	6.8504E+03	0.0006		
source points generated	4956				

estimator	cycle	623	ave of	573 cycles	combination
simple average	combined	average	corr		
k(collision)	0.637631	0.640327	0.0007	k(col/abs)	
0.640249	0.0007	0.640228	0.0007	0.8457	
k(absorption)	0.638186	0.640171	0.0007	k(abs/tk ln)	
0.640290	0.0007	0.640226	0.0006	0.4317	
k(trk length)	0.627319	0.640409	0.0009	k(tk ln/col)	
0.640368	0.0007	0.640344	0.0007	0.5490	
rem life(col)	6.7911E+03	6.8428E+03	0.0008	k(col/abs/tk ln)	
0.640302	0.0007	0.640245	0.0006		
rem life(abs)	6.7764E+03	6.8435E+03	0.0008	life(col/abs/tl)	
6.8450E+03	0.0007	6.8503E+03	0.0006		
source points generated	4929				

estimator	cycle	624	ave of	574 cycles	combination
simple average	combined average		corr		
k(collision)	0.658115		0.640358	0.0007	k(col/abs)
0.640268 0.0007	0.640243	0.0007	0.8448		
k(absorption)	0.644507		0.640179	0.0007	k(abs/tk ln)
0.640289 0.0007	0.640229	0.0006	0.4313		
k(trk length)	0.634453		0.640399	0.0009	k(tk ln/col)
0.640378 0.0007	0.640366	0.0007	0.5464		
rem life(col)	6.9422E+03		6.8430E+03	0.0008	k(col/abs/tk ln)
0.640312 0.0007	0.640253	0.0006			
rem life(abs)	6.9474E+03		6.8436E+03	0.0008	life(col/abs/tl)
6.8452E+03 0.0007	6.8503E+03	0.0006			
source points generated		5130			

estimator	cycle	625	ave of	575 cycles	combination
simple average	combined average		corr		
k(collision)	0.627432		0.640335	0.0007	k(col/abs)
0.640250 0.0007	0.640225	0.0007	0.8449		
k(absorption)	0.631773		0.640164	0.0007	k(abs/tk ln)
0.640271 0.0007	0.640213	0.0006	0.4319		
k(trk length)	0.628371		0.640378	0.0009	k(tk ln/col)
0.640357 0.0007	0.640344	0.0007	0.5472		
rem life(col)	6.9170E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640292 0.0007	0.640235	0.0006			
rem life(abs)	6.9263E+03		6.8438E+03	0.0008	life(col/abs/tl)
6.8453E+03 0.0007	6.8505E+03	0.0006			
source points generated		4760			

estimator	cycle	626	ave of	576 cycles	combination
simple average	combined average		corr		
k(collision)	0.628988		0.640316	0.0007	k(col/abs)
0.640229 0.0007	0.640204	0.0007	0.8453		
k(absorption)	0.627814		0.640143	0.0007	k(abs/tk ln)
0.640268 0.0007	0.640201	0.0006	0.4298		
k(trk length)	0.649770		0.640394	0.0009	k(tk ln/col)
0.640355 0.0007	0.640332	0.0007	0.5452		
rem life(col)	6.9575E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640284 0.0007	0.640222	0.0006			
rem life(abs)	6.9827E+03		6.8440E+03	0.0008	life(col/abs/tl)
6.8455E+03 0.0007	6.8506E+03	0.0006			
source points generated		5009			

estimator	cycle	627	ave of	577 cycles	combination
simple average	combined average		corr		
k(collision)	0.652487		0.640337	0.0007	k(col/abs)
0.640249 0.0007	0.640223	0.0007	0.8455		
k(absorption)	0.650446		0.640160	0.0007	k(abs/tk ln)
0.640259 0.0007	0.640206	0.0006	0.4260		
k(trk length)	0.618831		0.640357	0.0009	k(tk ln/col)
0.640347 0.0007	0.640341	0.0007	0.5406		
rem life(col)	6.8356E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640285 0.0006	0.640229	0.0006			
rem life(abs)	6.8378E+03		6.8440E+03	0.0008	life(col/abs/tl)
6.8455E+03 0.0007	6.8504E+03	0.0006			

source points generated 5186

estimator	cycle	628	ave of	578 cycles	combination
simple average	combined average		corr		
k(collision)	0.614821		0.640292	0.0007	k(col/abs)
0.640211 0.0007	0.640186	0.0007	0.8464		
k(absorption)	0.622257		0.640129	0.0007	k(abs/tk ln)
0.640216 0.0007	0.640169	0.0006	0.4297		
k(trk length)	0.608976		0.640303	0.0009	k(tk ln/col)
0.640298 0.0007	0.640295	0.0007	0.5447		
rem life(col)	6.9247E+03		6.8435E+03	0.0008	k(col/abs/tk ln)
0.640241 0.0007	0.640190	0.0006			
rem life(abs)	6.9120E+03		6.8441E+03	0.0008	life(col/abs/tl)
6.8456E+03 0.0007	6.8506E+03	0.0006			

source points generated 4717

estimator	cycle	629	ave of	579 cycles	combination
simple average	combined average		corr		
k(collision)	0.628834		0.640273	0.0007	k(col/abs)
0.640189 0.0007	0.640163	0.0007	0.8467		
k(absorption)	0.625661		0.640104	0.0007	k(abs/tk ln)
0.640189 0.0007	0.640143	0.0006	0.4313		
k(trk length)	0.623423		0.640273	0.0009	k(tk ln/col)
0.640273 0.0007	0.640273	0.0007	0.5457		
rem life(col)	6.8626E+03		6.8435E+03	0.0008	k(col/abs/tk ln)
0.640217 0.0007	0.640165	0.0006			
rem life(abs)	6.8665E+03		6.8442E+03	0.0008	life(col/abs/tl)
6.8457E+03 0.0007	6.8507E+03	0.0006			

source points generated 5129

estimator	cycle	630	ave of	580 cycles	combination
simple average	combined average		corr		
k(collision)	0.631760		0.640258	0.0007	k(col/abs)
0.640175 0.0007	0.640150	0.0007	0.8468		
k(absorption)	0.632741		0.640092	0.0007	k(abs/tk ln)
0.640166 0.0007	0.640126	0.0006	0.4321		
k(trk length)	0.621053		0.640240	0.0009	k(tk ln/col)
0.640249 0.0007	0.640254	0.0007	0.5463		
rem life(col)	6.7403E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640197 0.0007	0.640148	0.0006			
rem life(abs)	6.7290E+03		6.8440E+03	0.0008	life(col/abs/tl)
6.8455E+03 0.0007	6.8505E+03	0.0006			

source points generated 5007

estimator	cycle	631	ave of	581 cycles	combination
simple average	combined average		corr		
k(collision)	0.627004		0.640235	0.0007	k(col/abs)
0.640154 0.0007	0.640129	0.0007	0.8472		
k(absorption)	0.628513		0.640072	0.0007	k(abs/tk ln)
0.640127 0.0007	0.640097	0.0006	0.4341		
k(trk length)	0.606947		0.640183	0.0009	k(tk ln/col)
0.640209 0.0007	0.640225	0.0007	0.5480		
rem life(col)	6.7363E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640163 0.0007	0.640120	0.0006			

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rem life(abs)    6.7352E+03    6.8438E+03 0.0008    life(col/abs/tl)
6.8453E+03 0.0007    6.8504E+03 0.0005
source points generated    4928

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estimator    cycle    632    ave of    582 cycles    combination
simple average    combined average    corr
k(collision)    0.654719    0.640260 0.0007    k(col/abs)
0.640167 0.0007    0.640138 0.0007    0.8462
k(absorption)    0.641550    0.640074 0.0007    k(abs/tk ln)
0.640140 0.0007    0.640104 0.0006    0.4340
k(trk length)    0.653804    0.640206 0.0009    k(tk ln/col)
0.640233 0.0007    0.640249 0.0007    0.5489
rem life(col)    6.7164E+03    6.8429E+03 0.0008    k(col/abs/tk ln)
0.640180 0.0007    0.640129 0.0006
rem life(abs)    6.7549E+03    6.8436E+03 0.0008    life(col/abs/tl)
6.8451E+03 0.0007    6.8502E+03 0.0005
source points generated    5269

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estimator    cycle    633    ave of    583 cycles    combination
simple average    combined average    corr
k(collision)    0.629029    0.640241 0.0007    k(col/abs)
0.640151 0.0007    0.640123 0.0007    0.8463
k(absorption)    0.632519    0.640061 0.0007    k(abs/tk ln)
0.640131 0.0007    0.640093 0.0006    0.4341
k(trk length)    0.636506    0.640200 0.0009    k(tk ln/col)
0.640220 0.0007    0.640232 0.0007    0.5488
rem life(col)    7.0825E+03    6.8433E+03 0.0008    k(col/abs/tk ln)
0.640167 0.0007    0.640116 0.0006
rem life(abs)    7.0137E+03    6.8439E+03 0.0008    life(col/abs/tl)
6.8454E+03 0.0007    6.8504E+03 0.0005
source points generated    4849

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estimator    cycle    634    ave of    584 cycles    combination
simple average    combined average    corr
k(collision)    0.640007    0.640240 0.0007    k(col/abs)
0.640153 0.0007    0.640125 0.0007    0.8463
k(absorption)    0.642275    0.640065 0.0007    k(abs/tk ln)
0.640124 0.0007    0.640092 0.0006    0.4336
k(trk length)    0.629711    0.640182 0.0009    k(tk ln/col)
0.640211 0.0007    0.640228 0.0007    0.5486
rem life(col)    6.7973E+03    6.8432E+03 0.0008    k(col/abs/tk ln)
0.640163 0.0007    0.640115 0.0006
rem life(abs)    6.8154E+03    6.8439E+03 0.0008    life(col/abs/tl)
6.8454E+03 0.0007    6.8503E+03 0.0005
source points generated    5055

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```

estimator    cycle    635    ave of    585 cycles    combination
simple average    combined average    corr
k(collision)    0.654086    0.640264 0.0007    k(col/abs)
0.640165 0.0007    0.640133 0.0007    0.8451
k(absorption)    0.640291    0.640066 0.0007    k(abs/tk ln)
0.640128 0.0007    0.640094 0.0006    0.4336
k(trk length)    0.644923    0.640190 0.0009    k(tk ln/col)
0.640227 0.0007    0.640249 0.0007    0.5485

```

rem life(col)	6.8816E+03	6.8433E+03	0.0008	k(col/abs/tk ln)
0.640173	0.0006	0.640120	0.0006	
rem life(abs)	6.9447E+03	6.8440E+03	0.0008	life(col/abs/tl)
6.8455E+03	0.0007	6.8503E+03	0.0005	
source points generated	5088			

estimator	cycle	636	ave of	586 cycles	combination
simple average	combined average		corr		
k(collision)	0.628393		0.640244	0.0007	k(col/abs)
0.640154	0.0007	0.640124	0.0006	0.8445	
k(absorption)	0.638823		0.640063	0.0007	k(abs/tk ln)
0.640117	0.0007	0.640087	0.0006	0.4335	
k(trk length)	0.628509		0.640170	0.0009	k(tk ln/col)
0.640207	0.0007	0.640229	0.0007	0.5492	
rem life(col)	6.8159E+03	6.8433E+03	0.0008	k(col/abs/tk ln)	
0.640159	0.0006	0.640111	0.0006		
rem life(abs)	6.7961E+03	6.8440E+03	0.0008	life(col/abs/tl)	
6.8454E+03	0.0007	6.8502E+03	0.0005		
source points generated	4809				

estimator	cycle	637	ave of	587 cycles	combination
simple average	combined average		corr		
k(collision)	0.639037		0.640242	0.0007	k(col/abs)
0.640157	0.0007	0.640129	0.0006	0.8442	
k(absorption)	0.644711		0.640071	0.0007	k(abs/tk ln)
0.640108	0.0007	0.640088	0.0006	0.4322	
k(trk length)	0.625060		0.640144	0.0009	k(tk ln/col)
0.640193	0.0007	0.640222	0.0007	0.5488	
rem life(col)	6.6028E+03	6.8429E+03	0.0008	k(col/abs/tk ln)	
0.640153	0.0006	0.640111	0.0006		
rem life(abs)	6.5947E+03	6.8435E+03	0.0008	life(col/abs/tl)	
6.8450E+03	0.0007	6.8501E+03	0.0005		
source points generated	5113				

estimator	cycle	638	ave of	588 cycles	combination
simple average	combined average		corr		
k(collision)	0.623978		0.640214	0.0007	k(col/abs)
0.640139	0.0006	0.640113	0.0006	0.8437	
k(absorption)	0.635164		0.640063	0.0007	k(abs/tk ln)
0.640097	0.0007	0.640078	0.0006	0.4325	
k(trk length)	0.632695		0.640132	0.0009	k(tk ln/col)
0.640173	0.0007	0.640197	0.0007	0.5490	
rem life(col)	6.9475E+03	6.8430E+03	0.0008	k(col/abs/tk ln)	
0.640136	0.0006	0.640098	0.0006		
rem life(abs)	6.9510E+03	6.8437E+03	0.0008	life(col/abs/tl)	
6.8452E+03	0.0007	6.8502E+03	0.0005		
source points generated	4876				

estimator	cycle	639	ave of	589 cycles	combination
simple average	combined average		corr		
k(collision)	0.632791		0.640202	0.0007	k(col/abs)
0.640126	0.0006	0.640101	0.0006	0.8438	
k(absorption)	0.632708		0.640051	0.0007	k(abs/tk ln)
0.640078	0.0007	0.640063	0.0006	0.4332	

k(trk length)	0.624559	0.640105	0.0009	k(tk ln/col)
0.640153	0.0007	0.640182	0.0007	0.5495
rem life(col)	6.7058E+03	6.8428E+03	0.0008	k(col/abs/tk ln)
0.640119	0.0006	0.640083	0.0006	
rem life(abs)	6.6937E+03	6.8435E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8502E+03	0.0005	
source points generated	5091			

estimator	cycle	640	ave of	590 cycles	combination
simple average	combined average		corr		
k(collision)	0.634793		0.640192	0.0007	k(col/abs)
0.640115	0.0006	0.640089	0.0006	0.8438	
k(absorption)	0.632594		0.640038	0.0007	k(abs/tk ln)
0.640060	0.0007	0.640048	0.0006	0.4338	
k(trk length)	0.626814		0.640083	0.0009	k(tk ln/col)
0.640138	0.0007	0.640170	0.0007	0.5498	
rem life(col)	6.7930E+03		6.8427E+03	0.0008	k(col/abs/tk ln)
0.640104	0.0006	0.640069	0.0006		
rem life(abs)	6.7950E+03		6.8434E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8502E+03	0.0005		
source points generated	5043				

estimator	cycle	641	ave of	591 cycles	combination
simple average	combined average		corr		
k(collision)	0.647173		0.640204	0.0007	k(col/abs)
0.640135	0.0006	0.640112	0.0006	0.8435	
k(absorption)	0.656030		0.640065	0.0007	k(abs/tk ln)
0.640075	0.0007	0.640070	0.0006	0.4332	
k(trk length)	0.641681		0.640086	0.0009	k(tk ln/col)
0.640145	0.0007	0.640180	0.0007	0.5497	
rem life(col)	6.7017E+03		6.8425E+03	0.0008	k(col/abs/tk ln)
0.640118	0.0006	0.640090	0.0006		
rem life(abs)	6.6709E+03		6.8431E+03	0.0008	life(col/abs/tl)
6.8447E+03	0.0007	6.8500E+03	0.0005		
source points generated	5097				

estimator	cycle	642	ave of	592 cycles	combination
simple average	combined average		corr		
k(collision)	0.640512		0.640205	0.0007	k(col/abs)
0.640131	0.0006	0.640107	0.0006	0.8433	
k(absorption)	0.635323		0.640057	0.0007	k(abs/tk ln)
0.640090	0.0007	0.640072	0.0006	0.4310	
k(trk length)	0.662766		0.640124	0.0009	k(tk ln/col)
0.640164	0.0007	0.640188	0.0007	0.5486	
rem life(col)	6.7122E+03		6.8423E+03	0.0008	k(col/abs/tk ln)
0.640129	0.0006	0.640092	0.0006		
rem life(abs)	6.7320E+03		6.8429E+03	0.0008	life(col/abs/tl)
6.8445E+03	0.0007	6.8499E+03	0.0005		
source points generated	4988				

estimator	cycle	643	ave of	593 cycles	combination
simple average	combined average		corr		
k(collision)	0.633628		0.640194	0.0007	k(col/abs)
0.640111	0.0006	0.640086	0.0006	0.8428	

k(absorption)	0.623147	0.640028	0.0007	k(abs/tk ln)
0.640072	0.0007	0.640048	0.0006	0.4308
k(trk length)	0.635533	0.640116	0.0009	k(tk ln/col)
0.640155	0.0007	0.640178	0.0007	0.5487
rem life(col)	7.0130E+03	6.8425E+03	0.0008	k(col/abs/tk ln)
0.640113	0.0006	0.640072	0.0006	
rem life(abs)	7.0494E+03	6.8432E+03	0.0008	life(col/abs/tl)
6.8448E+03	0.0007	6.8502E+03	0.0005	
source points generated	4890			

estimator	cycle	644	ave of	594 cycles	combination
simple average	combined average		corr		
k(collision)	0.624723	0.640168	0.0007	k(col/abs)	
0.640094	0.0006	0.640070	0.0006	0.8424	
k(absorption)	0.634753	0.640020	0.0007	k(abs/tk ln)	
0.640057	0.0007	0.640037	0.0006	0.4312	
k(trk length)	0.627327	0.640095	0.0009	k(tk ln/col)	
0.640131	0.0007	0.640153	0.0007	0.5495	
rem life(col)	6.7803E+03	6.8424E+03	0.0008	k(col/abs/tk ln)	
0.640094	0.0006	0.640057	0.0006		
rem life(abs)	6.7471E+03	6.8431E+03	0.0008	life(col/abs/tl)	
6.8447E+03	0.0007	6.8500E+03	0.0005		
source points generated	4907				

estimator	cycle	645	ave of	595 cycles	combination
simple average	combined average		corr		
k(collision)	0.626465	0.640145	0.0007	k(col/abs)	
0.640078	0.0006	0.640057	0.0006	0.8420	
k(absorption)	0.635740	0.640012	0.0007	k(abs/tk ln)	
0.640048	0.0007	0.640028	0.0006	0.4314	
k(trk length)	0.633119	0.640083	0.0009	k(tk ln/col)	
0.640114	0.0007	0.640132	0.0007	0.5497	
rem life(col)	6.8196E+03	6.8424E+03	0.0008	k(col/abs/tk ln)	
0.640080	0.0006	0.640046	0.0006		
rem life(abs)	6.7964E+03	6.8430E+03	0.0008	life(col/abs/tl)	
6.8447E+03	0.0007	6.8500E+03	0.0005		
source points generated	4997				

estimator	cycle	646	ave of	596 cycles	combination
simple average	combined average		corr		
k(collision)	0.635271	0.640136	0.0007	k(col/abs)	
0.640075	0.0006	0.640055	0.0006	0.8418	
k(absorption)	0.640985	0.640014	0.0007	k(abs/tk ln)	
0.640054	0.0007	0.640032	0.0006	0.4314	
k(trk length)	0.646445	0.640094	0.0009	k(tk ln/col)	
0.640115	0.0007	0.640128	0.0007	0.5492	
rem life(col)	6.7826E+03	6.8423E+03	0.0008	k(col/abs/tk ln)	
0.640081	0.0006	0.640048	0.0006		
rem life(abs)	6.7892E+03	6.8429E+03	0.0008	life(col/abs/tl)	
6.8446E+03	0.0007	6.8500E+03	0.0005		
source points generated	5077				

estimator	cycle	647	ave of	597 cycles	combination
simple average	combined average		corr		

k(collision)	0.629808	0.640119	0.0007	k(col/abs)
0.640055	0.0006	0.640034	0.0006	0.8421
k(absorption)	0.626069	0.639991	0.0007	k(abs/tk ln)
0.640030	0.0007	0.640008	0.0006	0.4327
k(trk length)	0.625328	0.640069	0.0009	k(tk ln/col)
0.640094	0.0007	0.640109	0.0007	0.5500
rem life(col)	6.7660E+03	6.8422E+03	0.0008	k(col/abs/tk ln)
0.640059	0.0006	0.640026	0.0006	
rem life(abs)	6.8054E+03	6.8429E+03	0.0008	life(col/abs/tl)
6.8445E+03	0.0007	6.8499E+03	0.0005	
source points generated	4905			

estimator	cycle	648	ave of	598 cycles	combination
simple average	combined average		corr		
k(collision)	0.626429	0.640096	0.0007	k(col/abs)	
0.640046	0.0006	0.640029	0.0006	0.8403	
k(absorption)	0.642839	0.639995	0.0007	k(abs/tk ln)	
0.639999	0.0007	0.639997	0.0006	0.4287	
k(trk length)	0.600947	0.640003	0.0009	k(tk ln/col)	
0.640050	0.0007	0.640078	0.0007	0.5516	
rem life(col)	6.8160E+03	6.8421E+03	0.0008	k(col/abs/tk ln)	
0.640032	0.0006	0.640012	0.0006		
rem life(abs)	6.7806E+03	6.8428E+03	0.0008	life(col/abs/tl)	
6.8444E+03	0.0007	6.8499E+03	0.0005		
source points generated	4980				

estimator	cycle	649	ave of	599 cycles	combination
simple average	combined average		corr		
k(collision)	0.630631	0.640080	0.0007	k(col/abs)	
0.640031	0.0006	0.640015	0.0006	0.8404	
k(absorption)	0.631958	0.639982	0.0007	k(abs/tk ln)	
0.639983	0.0007	0.639983	0.0006	0.4293	
k(trk length)	0.628773	0.639985	0.0009	k(tk ln/col)	
0.640032	0.0007	0.640061	0.0007	0.5521	
rem life(col)	7.0879E+03	6.8425E+03	0.0008	k(col/abs/tk ln)	
0.640016	0.0006	0.639997	0.0006		
rem life(abs)	7.0635E+03	6.8431E+03	0.0008	life(col/abs/tl)	
6.8448E+03	0.0007	6.8501E+03	0.0005		
source points generated	5035				

estimator	cycle	650	ave of	600 cycles	combination
simple average	combined average		corr		
k(collision)	0.663842	0.640120	0.0007	k(col/abs)	
0.640068	0.0006	0.640051	0.0006	0.8416	
k(absorption)	0.660978	0.640017	0.0007	k(abs/tk ln)	
0.640016	0.0007	0.640016	0.0006	0.4315	
k(trk length)	0.657798	0.640014	0.0009	k(tk ln/col)	
0.640067	0.0007	0.640099	0.0007	0.5537	
rem life(col)	6.8770E+03	6.8426E+03	0.0008	k(col/abs/tk ln)	
0.640050	0.0006	0.640031	0.0006		
rem life(abs)	6.8652E+03	6.8432E+03	0.0008	life(col/abs/tl)	
6.8448E+03	0.0007	6.8501E+03	0.0005		
source points generated	5311				

estimator	cycle	651	ave of	601 cycles	combination
simple average	combined average		corr		
k(collision)	0.639699		0.640119	0.0007	k(col/abs)
0.640062 0.0006	0.640044	0.0006	0.8414		
k(absorption)	0.633087		0.640005	0.0007	k(abs/tk ln)
0.640004 0.0007	0.640005	0.0006	0.4318		
k(trk length)	0.632744		0.640002	0.0009	k(tk ln/col)
0.640061 0.0007	0.640096	0.0007	0.5536		
rem life(col)	6.8262E+03		6.8426E+03	0.0008	k(col/abs/tk ln)
0.640042 0.0006	0.640021	0.0006			
rem life(abs)	6.8426E+03		6.8432E+03	0.0008	life(col/abs/tl)
6.8448E+03 0.0007	6.8501E+03	0.0005			
source points generated	4840				

estimator	cycle	652	ave of	602 cycles	combination
simple average	combined average		corr		
k(collision)	0.640921		0.640121	0.0007	k(col/abs)
0.640063 0.0006	0.640044	0.0006	0.8413		
k(absorption)	0.640105		0.640006	0.0007	k(abs/tk ln)
0.640011 0.0007	0.640008	0.0006	0.4317		
k(trk length)	0.647989		0.640015	0.0009	k(tk ln/col)
0.640068 0.0007	0.640099	0.0007	0.5535		
rem life(col)	6.9420E+03		6.8427E+03	0.0008	k(col/abs/tk ln)
0.640047 0.0006	0.640024	0.0006			
rem life(abs)	6.9345E+03		6.8433E+03	0.0008	life(col/abs/tl)
6.8449E+03 0.0007	6.8501E+03	0.0005			
source points generated	5012				

estimator	cycle	653	ave of	603 cycles	combination
simple average	combined average		corr		
k(collision)	0.652190		0.640141	0.0007	k(col/abs)
0.640088 0.0006	0.640071	0.0006	0.8416		
k(absorption)	0.657799		0.640035	0.0007	k(abs/tk ln)
0.640029 0.0007	0.640033	0.0006	0.4316		
k(trk length)	0.644989		0.640024	0.0009	k(tk ln/col)
0.640082 0.0007	0.640117	0.0007	0.5536		
rem life(col)	6.8869E+03		6.8428E+03	0.0008	k(col/abs/tk ln)
0.640066 0.0006	0.640049	0.0006			
rem life(abs)	6.8769E+03		6.8434E+03	0.0008	life(col/abs/tl)
6.8449E+03 0.0007	6.8501E+03	0.0005			
source points generated	5060				

estimator	cycle	654	ave of	604 cycles	combination
simple average	combined average		corr		
k(collision)	0.647138		0.640152	0.0007	k(col/abs)
0.640092 0.0006	0.640072	0.0006	0.8410		
k(absorption)	0.637813		0.640031	0.0007	k(abs/tk ln)
0.640035 0.0007	0.640033	0.0006	0.4312		
k(trk length)	0.648665		0.640038	0.0009	k(tk ln/col)
0.640095 0.0007	0.640129	0.0007	0.5538		
rem life(col)	6.7106E+03		6.8426E+03	0.0008	k(col/abs/tk ln)
0.640074 0.0006	0.640051	0.0006			
rem life(abs)	6.7511E+03		6.8432E+03	0.0008	life(col/abs/tl)
6.8448E+03 0.0007	6.8500E+03	0.0005			

source points generated 4922

estimator	cycle	655	ave of	605 cycles	combination
simple average	combined average			corr	
k(collision)	0.638702		0.640150	0.0007	k(col/abs)
0.640087	0.0006	0.640067	0.0006	0.8410	
k(absorption)	0.635441		0.640024	0.0006	k(abs/tk ln)
0.640029	0.0007	0.640026	0.0006	0.4313	
k(trk length)	0.637164		0.640033	0.0009	k(tk ln/col)
0.640092	0.0007	0.640126	0.0007	0.5539	
rem life(col)	6.9615E+03		6.8428E+03	0.0008	k(col/abs/tk ln)
0.640069	0.0006	0.640044	0.0006		
rem life(abs)	6.9840E+03		6.8434E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8503E+03	0.0005		

source points generated 4950

estimator	cycle	656	ave of	606 cycles	combination
simple average	combined average			corr	
k(collision)	0.639333		0.640148	0.0007	k(col/abs)
0.640089	0.0006	0.640070	0.0006	0.8409	
k(absorption)	0.643404		0.640029	0.0006	k(abs/tk ln)
0.640040	0.0007	0.640034	0.0006	0.4315	
k(trk length)	0.650895		0.640051	0.0009	k(tk ln/col)
0.640100	0.0007	0.640129	0.0007	0.5535	
rem life(col)	6.6645E+03		6.8425E+03	0.0008	k(col/abs/tk ln)
0.640076	0.0006	0.640052	0.0006		
rem life(abs)	6.6254E+03		6.8431E+03	0.0008	life(col/abs/tl)
6.8448E+03	0.0007	6.8502E+03	0.0005		

source points generated 4988

estimator	cycle	657	ave of	607 cycles	combination
simple average	combined average			corr	
k(collision)	0.657386		0.640177	0.0007	k(col/abs)
0.640117	0.0006	0.640098	0.0006	0.8416	
k(absorption)	0.657341		0.640058	0.0006	k(abs/tk ln)
0.640049	0.0007	0.640054	0.0006	0.4289	
k(trk length)	0.632720		0.640039	0.0009	k(tk ln/col)
0.640108	0.0007	0.640149	0.0007	0.5509	
rem life(col)	6.5995E+03		6.8421E+03	0.0008	k(col/abs/tk ln)
0.640091	0.0006	0.640072	0.0006		
rem life(abs)	6.6095E+03		6.8427E+03	0.0008	life(col/abs/tl)
6.8444E+03	0.0007	6.8501E+03	0.0005		

source points generated 5165

estimator	cycle	658	ave of	608 cycles	combination
simple average	combined average			corr	
k(collision)	0.632028		0.640163	0.0007	k(col/abs)
0.640100	0.0006	0.640080	0.0006	0.8416	
k(absorption)	0.626949		0.640036	0.0006	k(abs/tk ln)
0.640042	0.0007	0.640039	0.0006	0.4276	
k(trk length)	0.645084		0.640047	0.0009	k(tk ln/col)
0.640105	0.0007	0.640140	0.0007	0.5501	
rem life(col)	6.7778E+03		6.8420E+03	0.0008	k(col/abs/tk ln)
0.640082	0.0006	0.640057	0.0006		

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rem life(abs)    6.8130E+03    6.8427E+03 0.0008    life(col/abs/tl)
6.8444E+03 0.0007    6.8501E+03 0.0005
source points generated    4794

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estimator    cycle    659    ave of    609 cycles    combination
simple average    combined average    corr
k(collision)    0.651923    0.640183 0.0007    k(col/abs)
0.640120 0.0006    0.640100 0.0006    0.8420
k(absorption)    0.652365    0.640057 0.0006    k(abs/tk ln)
0.640050 0.0007    0.640054 0.0006    0.4267
k(trk length)    0.637431    0.640043 0.0009    k(tk ln/col)
0.640113 0.0007    0.640154 0.0007    0.5492
rem life(col)    6.7660E+03    6.8419E+03 0.0008    k(col/abs/tk ln)
0.640094 0.0006    0.640072 0.0006
rem life(abs)    6.7822E+03    6.8426E+03 0.0008    life(col/abs/tl)
6.8443E+03 0.0007    6.8500E+03 0.0005
source points generated    5141

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estimator    cycle    660    ave of    610 cycles    combination
simple average    combined average    corr
k(collision)    0.636116    0.640176 0.0007    k(col/abs)
0.640114 0.0006    0.640095 0.0006    0.8420
k(absorption)    0.637615    0.640053 0.0006    k(abs/tk ln)
0.640048 0.0007    0.640050 0.0006    0.4267
k(trk length)    0.639638    0.640042 0.0009    k(tk ln/col)
0.640109 0.0007    0.640148 0.0007    0.5492
rem life(col)    6.9302E+03    6.8420E+03 0.0008    k(col/abs/tk ln)
0.640090 0.0006    0.640069 0.0006
rem life(abs)    6.9304E+03    6.8427E+03 0.0008    life(col/abs/tl)
6.8445E+03 0.0007    6.8503E+03 0.0005
source points generated    4845

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```

estimator    cycle    661    ave of    611 cycles    combination
simple average    combined average    corr
k(collision)    0.642396    0.640180 0.0007    k(col/abs)
0.640125 0.0006    0.640108 0.0006    0.8415
k(absorption)    0.651071    0.640071 0.0006    k(abs/tk ln)
0.640072 0.0007    0.640071 0.0006    0.4280
k(trk length)    0.659047    0.640074 0.0009    k(tk ln/col)
0.640127 0.0007    0.640158 0.0007    0.5488
rem life(col)    7.0926E+03    6.8424E+03 0.0008    k(col/abs/tk ln)
0.640108 0.0006    0.640088 0.0006
rem life(abs)    7.0749E+03    6.8431E+03 0.0008    life(col/abs/tl)
6.8448E+03 0.0007    6.8504E+03 0.0005
source points generated    5106

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estimator    cycle    662    ave of    612 cycles    combination
simple average    combined average    corr
k(collision)    0.643408    0.640185 0.0007    k(col/abs)
0.640122 0.0006    0.640102 0.0006    0.8407
k(absorption)    0.632430    0.640058 0.0006    k(abs/tk ln)
0.640062 0.0007    0.640060 0.0006    0.4282
k(trk length)    0.634916    0.640065 0.0009    k(tk ln/col)
0.640125 0.0007    0.640160 0.0007    0.5485

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rem life(col)	6.6314E+03	6.8421E+03	0.0008	k(col/abs/tk ln)
0.640103	0.0006	0.640079	0.0006	
rem life(abs)	6.6601E+03	6.8428E+03	0.0008	life(col/abs/tl)
6.8445E+03	0.0007	6.8503E+03	0.0005	
source points generated	4996			

estimator	cycle	663	ave of	613 cycles	combination
simple average	combined average		corr		
k(collision)	0.625736		0.640161	0.0007	k(col/abs)
0.640105	0.0006	0.640088	0.0006	0.8404	
k(absorption)	0.634692		0.640049	0.0006	k(abs/tk ln)
0.640047	0.0007	0.640048	0.0006	0.4286	
k(trk length)	0.627651		0.640045	0.0009	k(tk ln/col)
0.640103	0.0007	0.640137	0.0007	0.5493	
rem life(col)	6.7393E+03		6.8419E+03	0.0008	k(col/abs/tk ln)
0.640085	0.0006	0.640066	0.0006		
rem life(abs)	6.7370E+03		6.8426E+03	0.0008	life(col/abs/tl)
6.8444E+03	0.0007	6.8503E+03	0.0005		
source points generated	4872				

estimator	cycle	664	ave of	614 cycles	combination
simple average	combined average		corr		
k(collision)	0.633721		0.640151	0.0007	k(col/abs)
0.640099	0.0006	0.640083	0.0006	0.8403	
k(absorption)	0.638789		0.640047	0.0006	k(abs/tk ln)
0.640037	0.0007	0.640043	0.0006	0.4285	
k(trk length)	0.628891		0.640027	0.0009	k(tk ln/col)
0.640089	0.0007	0.640125	0.0007	0.5496	
rem life(col)	7.0839E+03		6.8423E+03	0.0008	k(col/abs/tk ln)
0.640075	0.0006	0.640059	0.0006		
rem life(abs)	7.0697E+03		6.8430E+03	0.0008	life(col/abs/tl)
6.8447E+03	0.0007	6.8505E+03	0.0005		
source points generated	5066				

estimator	cycle	665	ave of	615 cycles	combination
simple average	combined average		corr		
k(collision)	0.631704		0.640137	0.0007	k(col/abs)
0.640100	0.0006	0.640088	0.0006	0.8382	
k(absorption)	0.648975		0.640062	0.0006	k(abs/tk ln)
0.640043	0.0007	0.640053	0.0006	0.4281	
k(trk length)	0.638226		0.640024	0.0009	k(tk ln/col)
0.640080	0.0007	0.640114	0.0007	0.5495	
rem life(col)	6.8214E+03		6.8423E+03	0.0008	k(col/abs/tk ln)
0.640074	0.0006	0.640066	0.0006		
rem life(abs)	6.7854E+03		6.8429E+03	0.0008	life(col/abs/tl)
6.8447E+03	0.0007	6.8506E+03	0.0005		
source points generated	4972				

estimator	cycle	666	ave of	616 cycles	combination
simple average	combined average		corr		
k(collision)	0.648343		0.640151	0.0007	k(col/abs)
0.640117	0.0006	0.640107	0.0006	0.8383	
k(absorption)	0.653039		0.640083	0.0006	k(abs/tk ln)
0.640046	0.0007	0.640066	0.0006	0.4260	

k(trk length)	0.630900	0.640009	0.0009	k(tk ln/col)
0.640080	0.0007	0.640121	0.0007	0.5483
rem life(col)	7.0161E+03	6.8425E+03	0.0008	k(col/abs/tk ln)
0.640081	0.0006	0.640079	0.0006	
rem life(abs)	7.0091E+03	6.8431E+03	0.0008	life(col/abs/tl)
6.8449E+03	0.0007	6.8506E+03	0.0005	
source points generated	5137			

estimator	cycle	667	ave of	617 cycles	combination
simple average			combined average	corr	
k(collision)	0.622669		0.640122	0.0007	k(col/abs)
0.640088	0.0006	0.640078	0.0006	0.8390	
k(absorption)	0.622554		0.640055	0.0006	k(abs/tk ln)
0.640007	0.0007	0.640033	0.0006	0.4294	
k(trk length)	0.609043		0.639959	0.0009	k(tk ln/col)
0.640040	0.0007	0.640089	0.0007	0.5507	
rem life(col)	7.2713E+03		6.8432E+03	0.0008	k(col/abs/tk ln)
0.640045	0.0006	0.640046	0.0006		
rem life(abs)	7.2456E+03		6.8438E+03	0.0008	life(col/abs/tl)
6.8454E+03	0.0007	6.8509E+03	0.0005		
source points generated	4798				

estimator	cycle	668	ave of	618 cycles	combination
simple average			combined average	corr	
k(collision)	0.645825		0.640131	0.0007	k(col/abs)
0.640095	0.0006	0.640084	0.0006	0.8390	
k(absorption)	0.642224		0.640058	0.0006	k(abs/tk ln)
0.640012	0.0007	0.640037	0.0006	0.4295	
k(trk length)	0.644885		0.639967	0.0009	k(tk ln/col)
0.640049	0.0007	0.640098	0.0007	0.5508	
rem life(col)	6.7658E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640052	0.0006	0.640052	0.0006		
rem life(abs)	6.7635E+03		6.8437E+03	0.0008	life(col/abs/tl)
6.8453E+03	0.0007	6.8507E+03	0.0005		
source points generated	5174				

estimator	cycle	669	ave of	619 cycles	combination
simple average			combined average	corr	
k(collision)	0.636613		0.640126	0.0007	k(col/abs)
0.640093	0.0006	0.640082	0.0006	0.8389	
k(absorption)	0.640821		0.640059	0.0006	k(abs/tk ln)
0.640016	0.0007	0.640040	0.0006	0.4295	
k(trk length)	0.644128		0.639973	0.0009	k(tk ln/col)
0.640050	0.0007	0.640095	0.0007	0.5506	
rem life(col)	6.7717E+03		6.8430E+03	0.0008	k(col/abs/tk ln)
0.640053	0.0006	0.640053	0.0006		
rem life(abs)	6.7494E+03		6.8435E+03	0.0008	life(col/abs/tl)
6.8452E+03	0.0007	6.8506E+03	0.0005		
source points generated	4943				

estimator	cycle	670	ave of	620 cycles	combination
simple average			combined average	corr	
k(collision)	0.657609		0.640154	0.0007	k(col/abs)
0.640117	0.0006	0.640105	0.0006	0.8393	

k(absorption)	0.652658	0.640080	0.0006	k(abs/tk ln)
0.640029	0.0007	0.640056	0.0006	0.4293
k(trk length)	0.642419	0.639977	0.0009	k(tk ln/col)
0.640066	0.0007	0.640117	0.0007	0.5499
rem life(col)	6.9090E+03	6.8431E+03	0.0008	k(col/abs/tk ln)
0.640070	0.0006	0.640071	0.0006	
rem life(abs)	6.9434E+03	6.8437E+03	0.0008	life(col/abs/tl)
6.8453E+03	0.0007	6.8506E+03	0.0005	
source points generated	5211			

estimator	cycle	671	ave of	621 cycles	combination
simple average	combined average		corr		
k(collision)	0.646539	0.640164	0.0007	k(col/abs)	
0.640123	0.0006	0.640110	0.0006	0.8392	
k(absorption)	0.641387	0.640082	0.0006	k(abs/tk ln)	
0.640045	0.0007	0.640065	0.0006	0.4289	
k(trk length)	0.658712	0.640008	0.0009	k(tk ln/col)	
0.640086	0.0007	0.640132	0.0007	0.5502	
rem life(col)	6.8115E+03	6.8431E+03	0.0008	k(col/abs/tk ln)	
0.640085	0.0006	0.640080	0.0006		
rem life(abs)	6.7992E+03	6.8436E+03	0.0008	life(col/abs/tl)	
6.8452E+03	0.0007	6.8505E+03	0.0005		
source points generated	4937				

estimator	cycle	672	ave of	622 cycles	combination
simple average	combined average		corr		
k(collision)	0.642849	0.640169	0.0007	k(col/abs)	
0.640133	0.0006	0.640122	0.0006	0.8389	
k(absorption)	0.649941	0.640098	0.0006	k(abs/tk ln)	
0.640054	0.0007	0.640077	0.0006	0.4288	
k(trk length)	0.641169	0.640009	0.0009	k(tk ln/col)	
0.640089	0.0007	0.640136	0.0007	0.5502	
rem life(col)	6.6134E+03	6.8427E+03	0.0008	k(col/abs/tk ln)	
0.640092	0.0006	0.640091	0.0006		
rem life(abs)	6.5934E+03	6.8432E+03	0.0008	life(col/abs/tl)	
6.8448E+03	0.0007	6.8502E+03	0.0005		
source points generated	4960				

estimator	cycle	673	ave of	623 cycles	combination
simple average	combined average		corr		
k(collision)	0.632940	0.640157	0.0007	k(col/abs)	
0.640129	0.0006	0.640120	0.0006	0.8383	
k(absorption)	0.642242	0.640101	0.0006	k(abs/tk ln)	
0.640068	0.0007	0.640086	0.0006	0.4287	
k(trk length)	0.655341	0.640034	0.0009	k(tk ln/col)	
0.640096	0.0007	0.640132	0.0007	0.5483	
rem life(col)	6.8546E+03	6.8427E+03	0.0008	k(col/abs/tk ln)	
0.640097	0.0006	0.640097	0.0006		
rem life(abs)	6.8370E+03	6.8432E+03	0.0008	life(col/abs/tl)	
6.8448E+03	0.0007	6.8501E+03	0.0005		
source points generated	4958				

estimator	cycle	674	ave of	624 cycles	combination
simple average	combined average		corr		

k(collision)	0.636401	0.640151	0.0007	k(col/abs)
0.640118	0.0006	0.640108	0.0006	0.8381
k(absorption)	0.630046	0.640085	0.0006	k(abs/tk ln)
0.640071	0.0007	0.640079	0.0006	0.4264
k(trk length)	0.654725	0.640058	0.0009	k(tk ln/col)
0.640104	0.0007	0.640132	0.0007	0.5472
rem life(col)	6.9753E+03	6.8429E+03	0.0008	k(col/abs/tk ln)
0.640098	0.0006	0.640090	0.0006	
rem life(abs)	7.0021E+03	6.8435E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8503E+03	0.0005	
source points generated	5035			

estimator	cycle	675	ave of	625 cycles	combination
simple average	combined average		corr		
k(collision)	0.642626		0.640155	0.0007	k(col/abs)
0.640124	0.0006	0.640114	0.0006	0.8381	
k(absorption)	0.644906		0.640093	0.0006	k(abs/tk ln)
0.640066	0.0006	0.640080	0.0006	0.4255	
k(trk length)	0.628531		0.640039	0.0009	k(tk ln/col)
0.640097	0.0007	0.640131	0.0007	0.5466	
rem life(col)	6.6642E+03		6.8426E+03	0.0008	k(col/abs/tk ln)
0.640096	0.0006	0.640092	0.0006		
rem life(abs)	6.6495E+03		6.8431E+03	0.0008	life(col/abs/tl)
6.8448E+03	0.0007	6.8502E+03	0.0005		
source points generated	5106				

estimator	cycle	676	ave of	626 cycles	combination
simple average	combined average		corr		
k(collision)	0.615338		0.640115	0.0007	k(col/abs)
0.640092	0.0006	0.640085	0.0006	0.8385	
k(absorption)	0.625101		0.640069	0.0006	k(abs/tk ln)
0.640027	0.0007	0.640050	0.0006	0.4284	
k(trk length)	0.605728		0.639984	0.0009	k(tk ln/col)
0.640050	0.0007	0.640089	0.0007	0.5506	
rem life(col)	6.8221E+03		6.8426E+03	0.0008	k(col/abs/tk ln)
0.640056	0.0006	0.640059	0.0006		
rem life(abs)	6.7980E+03		6.8431E+03	0.0008	life(col/abs/tl)
6.8448E+03	0.0007	6.8503E+03	0.0005		
source points generated	4793				

estimator	cycle	677	ave of	627 cycles	combination
simple average	combined average		corr		
k(collision)	0.633540		0.640105	0.0007	k(col/abs)
0.640082	0.0006	0.640075	0.0006	0.8386	
k(absorption)	0.634004		0.640059	0.0006	k(abs/tk ln)
0.640018	0.0007	0.640041	0.0006	0.4285	
k(trk length)	0.635980		0.639978	0.0009	k(tk ln/col)
0.640041	0.0007	0.640079	0.0007	0.5507	
rem life(col)	7.0313E+03		6.8429E+03	0.0008	k(col/abs/tk ln)
0.640047	0.0006	0.640050	0.0006		
rem life(abs)	7.0105E+03		6.8433E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8503E+03	0.0005		
source points generated	5186				

estimator	cycle	678	ave of	628 cycles	combination
simple average	combined average		corr		
k(collision)	0.640991		0.640106	0.0007	k(col/abs)
0.640082	0.0006	0.640074	0.0006	0.8386	
k(absorption)	0.639073		0.640057	0.0006	k(abs/tk ln)
0.640027	0.0006	0.640044	0.0006	0.4282	
k(trk length)	0.651557		0.639996	0.0009	k(tk ln/col)
0.640051	0.0007	0.640084	0.0007	0.5505	
rem life(col)	6.8681E+03		6.8429E+03	0.0008	k(col/abs/tk ln)
0.640053	0.0006	0.640053	0.0006		
rem life(abs)	6.8650E+03		6.8434E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8503E+03	0.0005		
source points generated					5061

estimator	cycle	679	ave of	629 cycles	combination
simple average	combined average		corr		
k(collision)	0.652408		0.640126	0.0007	k(col/abs)
0.640098	0.0006	0.640089	0.0006	0.8387	
k(absorption)	0.647755		0.640070	0.0006	k(abs/tk ln)
0.640050	0.0006	0.640061	0.0006	0.4290	
k(trk length)	0.661016		0.640030	0.0009	k(tk ln/col)
0.640078	0.0007	0.640106	0.0007	0.5517	
rem life(col)	6.9802E+03		6.8432E+03	0.0008	k(col/abs/tk ln)
0.640075	0.0006	0.640070	0.0006		
rem life(abs)	7.0079E+03		6.8436E+03	0.0008	life(col/abs/tl)
6.8452E+03	0.0007	6.8502E+03	0.0005		
source points generated					5111

estimator	cycle	680	ave of	630 cycles	combination
simple average	combined average		corr		
k(collision)	0.654810		0.640149	0.0007	k(col/abs)
0.640120	0.0006	0.640111	0.0006	0.8392	
k(absorption)	0.653717		0.640091	0.0006	k(abs/tk ln)
0.640068	0.0006	0.640081	0.0006	0.4296	
k(trk length)	0.648773		0.640044	0.0009	k(tk ln/col)
0.640096	0.0007	0.640128	0.0007	0.5520	
rem life(col)	6.8360E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640095	0.0006	0.640090	0.0006		
rem life(abs)	6.8749E+03		6.8437E+03	0.0008	life(col/abs/tl)
6.8452E+03	0.0007	6.8501E+03	0.0005		
source points generated					5056

estimator	cycle	681	ave of	631 cycles	combination
simple average	combined average		corr		
k(collision)	0.638201		0.640146	0.0007	k(col/abs)
0.640116	0.0006	0.640106	0.0006	0.8392	
k(absorption)	0.636759		0.640086	0.0006	k(abs/tk ln)
0.640052	0.0006	0.640071	0.0006	0.4297	
k(trk length)	0.623802		0.640018	0.0009	k(tk ln/col)
0.640082	0.0007	0.640120	0.0007	0.5518	
rem life(col)	6.7726E+03		6.8430E+03	0.0008	k(col/abs/tk ln)
0.640083	0.0006	0.640082	0.0006		
rem life(abs)	6.7520E+03		6.8435E+03	0.0008	life(col/abs/tl)
6.8450E+03	0.0007	6.8499E+03	0.0005		

source points generated 4867

estimator	cycle	682	ave of	632 cycles	combination
simple average		combined average		corr	
k(collision)		0.647657		0.640158 0.0007	k(col/abs)
0.640132 0.0006		0.640123 0.0006		0.8392	
k(absorption)		0.652266		0.640105 0.0006	k(abs/tk ln)
0.640064 0.0006		0.640087 0.0006		0.4296	
k(trk length)		0.642845		0.640022 0.0009	k(tk ln/col)
0.640090 0.0007		0.640130 0.0006		0.5517	
rem life(col)		6.8037E+03		6.8430E+03 0.0008	k(col/abs/tk ln)
0.640095 0.0006		0.640097 0.0006			
rem life(abs)		6.8082E+03		6.8435E+03 0.0008	life(col/abs/tl)
6.8450E+03 0.0007		6.8499E+03 0.0005			
source points generated		5083			

estimator	cycle	683	ave of	633 cycles	combination
simple average		combined average		corr	
k(collision)		0.648187		0.640170 0.0007	k(col/abs)
0.640151 0.0006		0.640145 0.0006		0.8390	
k(absorption)		0.656964		0.640132 0.0006	k(abs/tk ln)
0.640062 0.0006		0.640100 0.0006		0.4245	
k(trk length)		0.620630		0.639992 0.0009	k(tk ln/col)
0.640081 0.0007		0.640134 0.0006		0.5491	
rem life(col)		6.8357E+03		6.8430E+03 0.0008	k(col/abs/tk ln)
0.640098 0.0006		0.640110 0.0006			
rem life(abs)		6.8239E+03		6.8434E+03 0.0008	life(col/abs/tl)
6.8449E+03 0.0007		6.8497E+03 0.0005			
source points generated		5064			

estimator	cycle	684	ave of	634 cycles	combination
simple average		combined average		corr	
k(collision)		0.642142		0.640174 0.0007	k(col/abs)
0.640150 0.0006		0.640143 0.0006		0.8388	
k(absorption)		0.636615		0.640126 0.0006	k(abs/tk ln)
0.640073 0.0006		0.640102 0.0006		0.4232	
k(trk length)		0.657809		0.640020 0.0009	k(tk ln/col)
0.640097 0.0007		0.640142 0.0006		0.5488	
rem life(col)		6.8962E+03		6.8430E+03 0.0008	k(col/abs/tk ln)
0.640107 0.0006		0.640112 0.0006			
rem life(abs)		6.9390E+03		6.8436E+03 0.0008	life(col/abs/tl)
6.8450E+03 0.0007		6.8498E+03 0.0005			
source points generated		4922			

estimator	cycle	685	ave of	635 cycles	combination
simple average		combined average		corr	
k(collision)		0.633731		0.640163 0.0007	k(col/abs)
0.640140 0.0006		0.640132 0.0006		0.8389	
k(absorption)		0.633252		0.640116 0.0006	k(abs/tk ln)
0.640056 0.0006		0.640088 0.0006		0.4238	
k(trk length)		0.624907		0.639996 0.0009	k(tk ln/col)
0.640080 0.0007		0.640130 0.0006		0.5491	
rem life(col)		7.1177E+03		6.8435E+03 0.0008	k(col/abs/tk ln)
0.640092 0.0006		0.640099 0.0006			


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rem life(abs)    7.1024E+03    6.8440E+03 0.0008    life(col/abs/tl)
6.8454E+03 0.0007    6.8500E+03 0.0005
source points generated    4894

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estimator    cycle    686    ave of    636 cycles    combination
simple average    combined average    corr
k(collision)    0.641479    0.640166 0.0007    k(col/abs)
0.640139 0.0006    0.640131 0.0006    0.8388
k(absorption)    0.638329    0.640113 0.0006    k(abs/tk ln)
0.640046 0.0006    0.640083 0.0006    0.4239
k(trk length)    0.629699    0.639980 0.0009    k(tk ln/col)
0.640073 0.0007    0.640128 0.0006    0.5488
rem life(col)    6.7927E+03    6.8434E+03 0.0008    k(col/abs/tk ln)
0.640086 0.0006    0.640095 0.0006
rem life(abs)    6.8127E+03    6.8440E+03 0.0008    life(col/abs/tl)
6.8454E+03 0.0007    6.8501E+03 0.0005
source points generated    5074

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estimator    cycle    687    ave of    637 cycles    combination
simple average    combined average    corr
k(collision)    0.633357    0.640155 0.0007    k(col/abs)
0.640120 0.0006    0.640110 0.0006    0.8384
k(absorption)    0.623054    0.640086 0.0006    k(abs/tk ln)
0.640030 0.0006    0.640060 0.0006    0.4237
k(trk length)    0.635701    0.639973 0.0009    k(tk ln/col)
0.640064 0.0007    0.640118 0.0006    0.5489
rem life(col)    6.8695E+03    6.8434E+03 0.0008    k(col/abs/tk ln)
0.640071 0.0006    0.640075 0.0006
rem life(abs)    6.8970E+03    6.8440E+03 0.0008    life(col/abs/tl)
6.8454E+03 0.0007    6.8502E+03 0.0005
source points generated    4975

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estimator    cycle    688    ave of    638 cycles    combination
simple average    combined average    corr
k(collision)    0.635758    0.640148 0.0007    k(col/abs)
0.640111 0.0006    0.640100 0.0006    0.8384
k(absorption)    0.632730    0.640074 0.0006    k(abs/tk ln)
0.640018 0.0006    0.640049 0.0006    0.4240
k(trk length)    0.632683    0.639962 0.0009    k(tk ln/col)
0.640055 0.0007    0.640110 0.0006    0.5490
rem life(col)    6.9842E+03    6.8437E+03 0.0008    k(col/abs/tk ln)
0.640061 0.0006    0.640064 0.0006
rem life(abs)    6.9859E+03    6.8443E+03 0.0008    life(col/abs/tl)
6.8456E+03 0.0007    6.8503E+03 0.0005
source points generated    4980

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estimator    cycle    689    ave of    639 cycles    combination
simple average    combined average    corr
k(collision)    0.655547    0.640172 0.0007    k(col/abs)
0.640130 0.0006    0.640117 0.0006    0.8385
k(absorption)    0.648666    0.640088 0.0006    k(abs/tk ln)
0.640031 0.0006    0.640062 0.0006    0.4244
k(trk length)    0.648037    0.639974 0.0009    k(tk ln/col)
0.640073 0.0007    0.640132 0.0006    0.5492

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rem life(col)	6.6522E+03	6.8434E+03	0.0008	k(col/abs/tk ln)
0.640078 0.0006	0.640078	0.0006		
rem life(abs)	6.6846E+03	6.8440E+03	0.0008	life(col/abs/tl)
6.8454E+03 0.0007	6.8502E+03	0.0005		
source points generated	5110			

estimator	cycle	690	ave of	640 cycles	combination
simple average	combined average		corr		
k(collision)	0.639420		0.640171	0.0007	k(col/abs)
0.640131 0.0006	0.640119	0.0006	0.8384		
k(absorption)	0.642511		0.640092	0.0006	k(abs/tk ln)
0.640022 0.0006	0.640060	0.0006	0.4237		
k(trk length)	0.625381		0.639952	0.0009	k(tk ln/col)
0.640061 0.0007	0.640126	0.0006	0.5489		
rem life(col)	6.5443E+03		6.8429E+03	0.0008	k(col/abs/tk ln)
0.640071 0.0006	0.640076	0.0006			
rem life(abs)	6.5564E+03		6.8436E+03	0.0008	life(col/abs/tl)
6.8450E+03 0.0007	6.8499E+03	0.0005			
source points generated	4848				

estimator	cycle	691	ave of	641 cycles	combination
simple average	combined average		corr		
k(collision)	0.641884		0.640174	0.0007	k(col/abs)
0.640136 0.0006	0.640125	0.0006	0.8384		
k(absorption)	0.645041		0.640099	0.0006	k(abs/tk ln)
0.640019 0.0006	0.640063	0.0006	0.4230		
k(trk length)	0.631919		0.639939	0.0009	k(tk ln/col)
0.640056 0.0007	0.640126	0.0006	0.5486		
rem life(col)	7.0020E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640071 0.0006	0.640079	0.0006			
rem life(abs)	6.9924E+03		6.8438E+03	0.0008	life(col/abs/tl)
6.8452E+03 0.0007	6.8499E+03	0.0005			
source points generated	4960				

estimator	cycle	692	ave of	642 cycles	combination
simple average	combined average		corr		
k(collision)	0.630990		0.640159	0.0007	k(col/abs)
0.640134 0.0006	0.640127	0.0006	0.8368		
k(absorption)	0.646515		0.640109	0.0006	k(abs/tk ln)
0.640026 0.0006	0.640071	0.0006	0.4231		
k(trk length)	0.642578		0.639943	0.0009	k(tk ln/col)
0.640051 0.0007	0.640115	0.0006	0.5480		
rem life(col)	6.8254E+03		6.8431E+03	0.0008	k(col/abs/tk ln)
0.640071 0.0006	0.640084	0.0006			
rem life(abs)	6.8013E+03		6.8437E+03	0.0008	life(col/abs/tl)
6.8451E+03 0.0007	6.8499E+03	0.0005			
source points generated	4900				

estimator	cycle	693	ave of	643 cycles	combination
simple average	combined average		corr		
k(collision)	0.652342		0.640178	0.0007	k(col/abs)
0.640159 0.0006	0.640154	0.0006	0.8369		
k(absorption)	0.660209		0.640141	0.0006	k(abs/tk ln)
0.640053 0.0006	0.640100	0.0006	0.4245		

k(trk length)	0.654165	0.639965	0.0009	k(tk ln/col)
0.640072	0.0007	0.640135	0.0006	0.5488
rem life(col)	6.8332E+03	6.8431E+03	0.0008	k(col/abs/tk ln)
0.640095	0.0006	0.640112	0.0006	
rem life(abs)	6.8259E+03	6.8437E+03	0.0008	life(col/abs/tl)
6.8451E+03	0.0007	6.8499E+03	0.0005	
source points generated	5194			

estimator	cycle	694	ave of	644 cycles	combination
simple average	combined average		corr		
k(collision)	0.636401	0.640172	0.0007	k(col/abs)	
0.640150	0.0006	0.640144	0.0006	0.8368	
k(absorption)	0.631855	0.640128	0.0006	k(abs/tk ln)	
0.640056	0.0006	0.640095	0.0006	0.4229	
k(trk length)	0.652575	0.639985	0.0009	k(tk ln/col)	
0.640079	0.0007	0.640134	0.0006	0.5480	
rem life(col)	6.9318E+03	6.8432E+03	0.0008	k(col/abs/tk ln)	
0.640095	0.0006	0.640107	0.0006		
rem life(abs)	6.9565E+03	6.8439E+03	0.0007	life(col/abs/tl)	
6.8453E+03	0.0007	6.8501E+03	0.0005		
source points generated	4900				

estimator	cycle	695	ave of	645 cycles	combination
simple average	combined average		corr		
k(collision)	0.656757	0.640198	0.0007	k(col/abs)	
0.640182	0.0006	0.640177	0.0006	0.8373	
k(absorption)	0.664423	0.640165	0.0006	k(abs/tk ln)	
0.640075	0.0006	0.640123	0.0006	0.4210	
k(trk length)	0.639508	0.639984	0.0009	k(tk ln/col)	
0.640091	0.0007	0.640154	0.0006	0.5469	
rem life(col)	6.8845E+03	6.8433E+03	0.0008	k(col/abs/tk ln)	
0.640116	0.0006	0.640134	0.0006		
rem life(abs)	6.8769E+03	6.8439E+03	0.0007	life(col/abs/tl)	
6.8453E+03	0.0007	6.8501E+03	0.0005		
source points generated	5169				

estimator	cycle	696	ave of	646 cycles	combination
simple average	combined average		corr		
k(collision)	0.653733	0.640219	0.0007	k(col/abs)	
0.640201	0.0006	0.640197	0.0006	0.8377	
k(absorption)	0.651855	0.640184	0.0006	k(abs/tk ln)	
0.640101	0.0006	0.640145	0.0006	0.4225	
k(trk length)	0.662038	0.640018	0.0009	k(tk ln/col)	
0.640119	0.0007	0.640178	0.0006	0.5482	
rem life(col)	6.6443E+03	6.8430E+03	0.0008	k(col/abs/tk ln)	
0.640140	0.0006	0.640156	0.0006		
rem life(abs)	6.6330E+03	6.8436E+03	0.0007	life(col/abs/tl)	
6.8450E+03	0.0007	6.8499E+03	0.0005		
source points generated	4972				

estimator	cycle	697	ave of	647 cycles	combination
simple average	combined average		corr		
k(collision)	0.650667	0.640235	0.0007	k(col/abs)	
0.640208	0.0006	0.640201	0.0006	0.8369	

k(absorption)	0.639050	0.640182	0.0006	k(abs/tk ln)
0.640102	0.0006	0.640145	0.0006	0.4224
k(trk length)	0.643071	0.640023	0.0009	k(tk ln/col)
0.640129	0.0007	0.640192	0.0006	0.5481
rem life(col)	6.7624E+03	6.8429E+03	0.0008	k(col/abs/tk ln)
0.640147	0.0006	0.640159	0.0006	
rem life(abs)	6.7883E+03	6.8435E+03	0.0007	life(col/abs/tl)
6.8450E+03	0.0007	6.8499E+03	0.0005	
source points generated	4992			

estimator	cycle	698	ave of	648 cycles	combination
simple average	combined average		corr		
k(collision)	0.631551	0.640222	0.0007	k(col/abs)	
0.640193	0.0006	0.640186	0.0006	0.8371	
k(absorption)	0.629256	0.640165	0.0006	k(abs/tk ln)	
0.640088	0.0006	0.640129	0.0006	0.4229	
k(trk length)	0.631746	0.640010	0.0009	k(tk ln/col)	
0.640116	0.0007	0.640178	0.0006	0.5484	
rem life(col)	6.7191E+03	6.8427E+03	0.0008	k(col/abs/tk ln)	
0.640132	0.0006	0.640143	0.0006		
rem life(abs)	6.7075E+03	6.8433E+03	0.0007	life(col/abs/tl)	
6.8448E+03	0.0007	6.8499E+03	0.0005		
source points generated	4840				

estimator	cycle	699	ave of	649 cycles	combination
simple average	combined average		corr		
k(collision)	0.636445	0.640216	0.0007	k(col/abs)	
0.640191	0.0006	0.640185	0.0006	0.8369	
k(absorption)	0.641346	0.640167	0.0006	k(abs/tk ln)	
0.640078	0.0006	0.640126	0.0006	0.4225	
k(trk length)	0.626837	0.639990	0.0009	k(tk ln/col)	
0.640103	0.0007	0.640170	0.0006	0.5485	
rem life(col)	6.9280E+03	6.8428E+03	0.0008	k(col/abs/tk ln)	
0.640124	0.0006	0.640140	0.0006		
rem life(abs)	6.9502E+03	6.8435E+03	0.0007	life(col/abs/tl)	
6.8449E+03	0.0007	6.8500E+03	0.0005		
source points generated	5009				

estimator	cycle	700	ave of	650 cycles	combination
simple average	combined average		corr		
k(collision)	0.615265	0.640178	0.0007	k(col/abs)	
0.640156	0.0006	0.640149	0.0006	0.8381	
k(absorption)	0.618548	0.640134	0.0006	k(abs/tk ln)	
0.640068	0.0006	0.640103	0.0006	0.4189	
k(trk length)	0.648778	0.640003	0.0009	k(tk ln/col)	
0.640090	0.0007	0.640141	0.0006	0.5438	
rem life(col)	7.2293E+03	6.8434E+03	0.0008	k(col/abs/tk ln)	
0.640105	0.0006	0.640114	0.0006		
rem life(abs)	7.2288E+03	6.8441E+03	0.0008	life(col/abs/tl)	
6.8455E+03	0.0007	6.8503E+03	0.0005		
source points generated	4837				

estimator	cycle	701	ave of	651 cycles	combination
simple average	combined average		corr		

k(collision)	0.626642	0.640157	0.0007	k(col/abs)
0.640137	0.0006	0.640132	0.0006	0.8384
k(absorption)	0.629657	0.640117	0.0006	k(abs/tk ln)
0.640054	0.0006	0.640088	0.0006	0.4193
k(trk length)	0.632007	0.639991	0.0009	k(tk ln/col)
0.640074	0.0007	0.640122	0.0006	0.5441
rem life(col)	6.7587E+03	6.8433E+03	0.0008	k(col/abs/tk ln)
0.640088	0.0006	0.640098	0.0006	
rem life(abs)	6.7634E+03	6.8439E+03	0.0007	life(col/abs/tl)
6.8454E+03	0.0007	6.8504E+03	0.0005	
source points generated	5119			

estimator	cycle	702	ave of	652 cycles	combination
simple average	combined	average	corr		
k(collision)	0.656134	0.640181	0.0007	k(col/abs)	
0.640167	0.0006	0.640163	0.0006	0.8388	
k(absorption)	0.663414	0.640153	0.0006	k(abs/tk ln)	
0.640086	0.0006	0.640121	0.0006	0.4215	
k(trk length)	0.657422	0.640018	0.0009	k(tk ln/col)	
0.640100	0.0007	0.640147	0.0006	0.5454	
rem life(col)	6.6930E+03	6.8430E+03	0.0008	k(col/abs/tk ln)	
0.640117	0.0006	0.640130	0.0006		
rem life(abs)	6.6563E+03	6.8437E+03	0.0007	life(col/abs/tl)	
6.8451E+03	0.0007	6.8502E+03	0.0005		
source points generated	5233				

estimator	cycle	703	ave of	653 cycles	combination
simple average	combined	average	corr		
k(collision)	0.653334	0.640201	0.0007	k(col/abs)	
0.640185	0.0006	0.640180	0.0006	0.8391	
k(absorption)	0.649748	0.640168	0.0006	k(abs/tk ln)	
0.640118	0.0006	0.640144	0.0006	0.4228	
k(trk length)	0.672383	0.640067	0.0009	k(tk ln/col)	
0.640134	0.0007	0.640174	0.0006	0.5468	
rem life(col)	6.7930E+03	6.8430E+03	0.0008	k(col/abs/tk ln)	
0.640146	0.0006	0.640153	0.0006		
rem life(abs)	6.8020E+03	6.8436E+03	0.0007	life(col/abs/tl)	
6.8450E+03	0.0007	6.8500E+03	0.0005		
source points generated	5000				

estimator	cycle	704	ave of	654 cycles	combination
simple average	combined	average	corr		
k(collision)	0.653168	0.640221	0.0007	k(col/abs)	
0.640206	0.0006	0.640201	0.0006	0.8395	
k(absorption)	0.654558	0.640190	0.0006	k(abs/tk ln)	
0.640140	0.0006	0.640166	0.0006	0.4239	
k(trk length)	0.654390	0.640089	0.0009	k(tk ln/col)	
0.640155	0.0007	0.640194	0.0006	0.5477	
rem life(col)	6.6644E+03	6.8427E+03	0.0008	k(col/abs/tk ln)	
0.640167	0.0006	0.640175	0.0006		
rem life(abs)	6.6698E+03	6.8433E+03	0.0007	life(col/abs/tl)	
6.8448E+03	0.0007	6.8500E+03	0.0005		
source points generated	4960				

estimator	cycle	705	ave of	655 cycles	combination
simple average	combined average		corr		
k(collision)	0.649522		0.640235	0.0007	k(col/abs)
0.640218 0.0006	0.640213	0.0006	0.8396		
k(absorption)	0.647026		0.640200	0.0006	k(abs/tk ln)
0.640147 0.0006	0.640175	0.0006	0.4240		
k(trk length)	0.643062		0.640094	0.0009	k(tk ln/col)
0.640165 0.0007	0.640206	0.0006	0.5476		
rem life(col)	6.9722E+03		6.8429E+03	0.0008	k(col/abs/tk ln)
0.640177 0.0006	0.640184	0.0006			
rem life(abs)	6.9691E+03		6.8435E+03	0.0007	life(col/abs/tl)
6.8450E+03 0.0007	6.8500E+03	0.0005			
source points generated 4969					

estimator	cycle	706	ave of	656 cycles	combination
simple average	combined average		corr		
k(collision)	0.619407		0.640204	0.0007	k(col/abs)
0.640193 0.0006	0.640190	0.0006	0.8397		
k(absorption)	0.628629		0.640183	0.0006	k(abs/tk ln)
0.640136 0.0006	0.640161	0.0006	0.4240		
k(trk length)	0.636791		0.640089	0.0009	k(tk ln/col)
0.640146 0.0007	0.640179	0.0006	0.5467		
rem life(col)	6.9227E+03		6.8430E+03	0.0008	k(col/abs/tk ln)
0.640158 0.0006	0.640167	0.0006			
rem life(abs)	6.9116E+03		6.8436E+03	0.0007	life(col/abs/tl)
6.8451E+03 0.0007	6.8502E+03	0.0005			
source points generated 4729					

estimator	cycle	707	ave of	657 cycles	combination
simple average	combined average		corr		
k(collision)	0.632291		0.640192	0.0007	k(col/abs)
0.640185 0.0006	0.640183	0.0006	0.8396		
k(absorption)	0.637672		0.640179	0.0006	k(abs/tk ln)
0.640145 0.0006	0.640163	0.0006	0.4233		
k(trk length)	0.654371		0.640111	0.0009	k(tk ln/col)
0.640151 0.0007	0.640174	0.0006	0.5449		
rem life(col)	7.0023E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640160 0.0006	0.640167	0.0006			
rem life(abs)	7.0125E+03		6.8439E+03	0.0007	life(col/abs/tl)
6.8453E+03 0.0007	6.8504E+03	0.0005			
source points generated 5158					

estimator	cycle	708	ave of	658 cycles	combination
simple average	combined average		corr		
k(collision)	0.645299		0.640199	0.0007	k(col/abs)
0.640191 0.0006	0.640189	0.0006	0.8396		
k(absorption)	0.642877		0.640183	0.0006	k(abs/tk ln)
0.640131 0.0006	0.640159	0.0006	0.4220		
k(trk length)	0.619808		0.640080	0.0009	k(tk ln/col)
0.640140 0.0007	0.640174	0.0006	0.5430		
rem life(col)	6.8680E+03		6.8433E+03	0.0008	k(col/abs/tk ln)
0.640154 0.0006	0.640164	0.0006			
rem life(abs)	6.8706E+03		6.8439E+03	0.0007	life(col/abs/tl)
6.8453E+03 0.0007	6.8503E+03	0.0005			

source points generated 5147

estimator	cycle	709	ave of	659 cycles	combination
simple average	combined average		corr		
k(collision)	0.633490		0.640189	0.0007	k(col/abs)
0.640182	0.0006	0.640180	0.0006	0.8397	
k(absorption)	0.634415		0.640174	0.0006	k(abs/tk ln)
0.640124	0.0006	0.640151	0.0006	0.4221	
k(trk length)	0.636510		0.640074	0.0009	k(tk ln/col)
0.640132	0.0007	0.640165	0.0006	0.5430	
rem life(col)	6.7876E+03		6.8432E+03	0.0007	k(col/abs/tk ln)
0.640146	0.0006	0.640156	0.0006		
rem life(abs)	6.7982E+03		6.8438E+03	0.0007	life(col/abs/tl)
6.8453E+03	0.0007	6.8504E+03	0.0005		

source points generated 4919

estimator	cycle	710	ave of	660 cycles	combination
simple average	combined average		corr		
k(collision)	0.619502		0.640158	0.0007	k(col/abs)
0.640148	0.0006	0.640145	0.0006	0.8406	
k(absorption)	0.615860		0.640137	0.0006	k(abs/tk ln)
0.640098	0.0006	0.640118	0.0006	0.4229	
k(trk length)	0.629127		0.640058	0.0009	k(tk ln/col)
0.640108	0.0007	0.640136	0.0006	0.5435	
rem life(col)	7.0202E+03		6.8435E+03	0.0007	k(col/abs/tk ln)
0.640118	0.0006	0.640124	0.0006		
rem life(abs)	7.0337E+03		6.8441E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0007	6.8505E+03	0.0005		

source points generated 4887

estimator	cycle	711	ave of	661 cycles	combination
simple average	combined average		corr		
k(collision)	0.650751		0.640174	0.0007	k(col/abs)
0.640164	0.0006	0.640162	0.0006	0.8409	
k(absorption)	0.651592		0.640155	0.0006	k(abs/tk ln)
0.640124	0.0006	0.640140	0.0006	0.4244	
k(trk length)	0.663392		0.640093	0.0009	k(tk ln/col)
0.640133	0.0007	0.640157	0.0006	0.5444	
rem life(col)	6.6861E+03		6.8432E+03	0.0007	k(col/abs/tk ln)
0.640141	0.0006	0.640145	0.0006		
rem life(abs)	6.6854E+03		6.8439E+03	0.0007	life(col/abs/tl)
6.8454E+03	0.0007	6.8504E+03	0.0005		

source points generated 5237

estimator	cycle	712	ave of	662 cycles	combination
simple average	combined average		corr		
k(collision)	0.639585		0.640173	0.0007	k(col/abs)
0.640162	0.0006	0.640160	0.0006	0.8409	
k(absorption)	0.638361		0.640152	0.0006	k(abs/tk ln)
0.640115	0.0006	0.640135	0.0006	0.4244	
k(trk length)	0.630671		0.640079	0.0009	k(tk ln/col)
0.640126	0.0007	0.640153	0.0006	0.5443	
rem life(col)	6.7500E+03		6.8431E+03	0.0007	k(col/abs/tk ln)
0.640135	0.0006	0.640140	0.0006		

rem life(abs)	6.7405E+03	6.8437E+03	0.0007	life(col/abs/tl)
6.8452E+03	0.0007	6.8504E+03	0.0005	
source points generated	4933			

estimator	cycle	713	ave of	663 cycles	combination
simple average	combined average		corr		
k(collision)	0.643403		0.640178	0.0007	k(col/abs)
0.640171	0.0006	0.640169	0.0006	0.8408	
k(absorption)	0.647674		0.640163	0.0006	k(abs/tk ln)
0.640141	0.0006	0.640153	0.0006	0.4252	
k(trk length)	0.666899		0.640119	0.0009	k(tk ln/col)
0.640149	0.0007	0.640166	0.0006	0.5437	
rem life(col)	6.9092E+03		6.8432E+03	0.0007	k(col/abs/tk ln)
0.640153	0.0006	0.640157	0.0006		
rem life(abs)	6.8954E+03		6.8438E+03	0.0007	life(col/abs/tl)
6.8453E+03	0.0006	6.8506E+03	0.0005		
source points generated	5005				

estimator	cycle	714	ave of	664 cycles	combination
simple average	combined average		corr		
k(collision)	0.620292		0.640148	0.0007	k(col/abs)
0.640142	0.0006	0.640141	0.0006	0.8416	
k(absorption)	0.622604		0.640137	0.0006	k(abs/tk ln)
0.640126	0.0006	0.640132	0.0006	0.4247	
k(trk length)	0.637612		0.640116	0.0009	k(tk ln/col)
0.640132	0.0007	0.640141	0.0006	0.5428	
rem life(col)	7.0330E+03		6.8435E+03	0.0007	k(col/abs/tk ln)
0.640133	0.0006	0.640134	0.0006		
rem life(abs)	6.9930E+03		6.8440E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8509E+03	0.0005		
source points generated	4825				

estimator	cycle	715	ave of	665 cycles	combination
simple average	combined average		corr		
k(collision)	0.649080		0.640161	0.0007	k(col/abs)
0.640154	0.0006	0.640152	0.0006	0.8417	
k(absorption)	0.646722		0.640147	0.0006	k(abs/tk ln)
0.640135	0.0006	0.640141	0.0006	0.4249	
k(trk length)	0.645399		0.640123	0.0009	k(tk ln/col)
0.640142	0.0007	0.640153	0.0006	0.5429	
rem life(col)	6.8406E+03		6.8435E+03	0.0007	k(col/abs/tk ln)
0.640144	0.0006	0.640144	0.0006		
rem life(abs)	6.8569E+03		6.8441E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8509E+03	0.0005		
source points generated	5243				

estimator	cycle	716	ave of	666 cycles	combination
simple average	combined average		corr		
k(collision)	0.630955		0.640148	0.0007	k(col/abs)
0.640145	0.0006	0.640144	0.0006	0.8415	
k(absorption)	0.637118		0.640142	0.0006	k(abs/tk ln)
0.640134	0.0006	0.640138	0.0006	0.4248	
k(trk length)	0.642095		0.640126	0.0009	k(tk ln/col)
0.640137	0.0007	0.640143	0.0006	0.5424	

rem life(col)	6.8207E+03	6.8434E+03	0.0007	k(col/abs/tk ln)
0.640139 0.0006	0.640140	0.0006		
rem life(abs)	6.8155E+03	6.8440E+03	0.0007	life(col/abs/tl)
6.8456E+03 0.0006	6.8508E+03	0.0005		
source points generated	4854			

estimator	cycle	717	ave of	667 cycles	combination
simple average	combined average		corr		
k(collision)	0.635421		0.640140	0.0007	k(col/abs)
0.640139 0.0006	0.640138	0.0006	0.8416		
k(absorption)	0.636394		0.640137	0.0006	k(abs/tk ln)
0.640119 0.0006	0.640128	0.0006	0.4249		
k(trk length)	0.623400		0.640101	0.0009	k(tk ln/col)
0.640121 0.0007	0.640132	0.0006	0.5425		
rem life(col)	6.9833E+03		6.8437E+03	0.0007	k(col/abs/tk ln)
0.640126 0.0006	0.640130	0.0006			
rem life(abs)	6.9904E+03		6.8442E+03	0.0007	life(col/abs/tl)
6.8457E+03 0.0006	6.8509E+03	0.0005			
source points generated	5072				

estimator	cycle	718	ave of	668 cycles	combination
simple average	combined average		corr		
k(collision)	0.658113		0.640167	0.0007	k(col/abs)
0.640170 0.0006	0.640171	0.0006	0.8422		
k(absorption)	0.664243		0.640173	0.0006	k(abs/tk ln)
0.640147 0.0006	0.640160	0.0006	0.4262		
k(trk length)	0.653318		0.640121	0.0009	k(tk ln/col)
0.640144 0.0007	0.640157	0.0006	0.5434		
rem life(col)	6.9171E+03		6.8438E+03	0.0007	k(col/abs/tk ln)
0.640154 0.0006	0.640161	0.0006			
rem life(abs)	6.9057E+03		6.8443E+03	0.0007	life(col/abs/tl)
6.8458E+03 0.0006	6.8508E+03	0.0005			
source points generated	5152				

estimator	cycle	719	ave of	669 cycles	combination
simple average	combined average		corr		
k(collision)	0.616987		0.640133	0.0007	k(col/abs)
0.640147 0.0006	0.640151	0.0006	0.8413		
k(absorption)	0.632606		0.640161	0.0006	k(abs/tk ln)
0.640129 0.0006	0.640146	0.0006	0.4268		
k(trk length)	0.624164		0.640097	0.0009	k(tk ln/col)
0.640115 0.0007	0.640125	0.0006	0.5446		
rem life(col)	6.8724E+03		6.8438E+03	0.0007	k(col/abs/tk ln)
0.640130 0.0006	0.640144	0.0006			
rem life(abs)	6.8589E+03		6.8444E+03	0.0007	life(col/abs/tl)
6.8458E+03 0.0006	6.8508E+03	0.0005			
source points generated	4671				

estimator	cycle	720	ave of	670 cycles	combination
simple average	combined average		corr		
k(collision)	0.639033		0.640131	0.0007	k(col/abs)
0.640151 0.0006	0.640156	0.0006	0.8410		
k(absorption)	0.646145		0.640170	0.0006	k(abs/tk ln)
0.640149 0.0006	0.640160	0.0006	0.4273		

k(trk length)	0.660031	0.640127	0.0009	k(tk ln/col)
0.640129	0.0007	0.640130	0.0006	0.5436
rem life(col)	6.7016E+03	6.8436E+03	0.0007	k(col/abs/tk ln)
0.640143	0.0006	0.640155	0.0006	
rem life(abs)	6.7005E+03	6.8441E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8507E+03	0.0005	
source points generated	5137			

estimator	cycle	721	ave of	671 cycles	combination
simple average	combined average		corr		
k(collision)	0.646080	0.640140	0.0007	k(col/abs)	
0.640159	0.0006	0.640164	0.0006	0.8411	
k(absorption)	0.644870	0.640177	0.0006	k(abs/tk ln)	
0.640162	0.0006	0.640170	0.0006	0.4276	
k(trk length)	0.653221	0.640147	0.0009	k(tk ln/col)	
0.640143	0.0007	0.640141	0.0006	0.5439	
rem life(col)	6.8749E+03	6.8436E+03	0.0007	k(col/abs/tk ln)	
0.640155	0.0006	0.640165	0.0006		
rem life(abs)	6.8636E+03	6.8442E+03	0.0007	life(col/abs/tl)	
6.8457E+03	0.0006	6.8509E+03	0.0005		
source points generated	5103				

estimator	cycle	722	ave of	672 cycles	combination
simple average	combined average		corr		
k(collision)	0.635160	0.640132	0.0007	k(col/abs)	
0.640153	0.0006	0.640159	0.0006	0.8411	
k(absorption)	0.637360	0.640173	0.0006	k(abs/tk ln)	
0.640151	0.0006	0.640163	0.0006	0.4277	
k(trk length)	0.628129	0.640129	0.0009	k(tk ln/col)	
0.640131	0.0007	0.640132	0.0006	0.5441	
rem life(col)	6.9195E+03	6.8438E+03	0.0007	k(col/abs/tk ln)	
0.640145	0.0006	0.640157	0.0006		
rem life(abs)	6.9058E+03	6.8443E+03	0.0007	life(col/abs/tl)	
6.8458E+03	0.0006	6.8510E+03	0.0005		
source points generated	4888				

estimator	cycle	723	ave of	673 cycles	combination
simple average	combined average		corr		
k(collision)	0.643521	0.640138	0.0006	k(col/abs)	
0.640157	0.0006	0.640162	0.0006	0.8411	
k(absorption)	0.642212	0.640176	0.0006	k(abs/tk ln)	
0.640149	0.0006	0.640164	0.0006	0.4275	
k(trk length)	0.635910	0.640122	0.0009	k(tk ln/col)	
0.640130	0.0007	0.640134	0.0006	0.5439	
rem life(col)	6.6218E+03	6.8434E+03	0.0007	k(col/abs/tk ln)	
0.640145	0.0006	0.640159	0.0006		
rem life(abs)	6.6119E+03	6.8439E+03	0.0007	life(col/abs/tl)	
6.8455E+03	0.0006	6.8507E+03	0.0005		
source points generated	5035				

estimator	cycle	724	ave of	674 cycles	combination
simple average	combined average		corr		
k(collision)	0.644912	0.640145	0.0006	k(col/abs)	
0.640162	0.0006	0.640167	0.0006	0.8410	

k(absorption)	0.642160	0.640179	0.0006	k(abs/tk ln)
0.640158	0.0006	0.640169	0.0006	0.4276
k(trk length)	0.649436	0.640136	0.0009	k(tk ln/col)
0.640140	0.0007	0.640143	0.0006	0.5440
rem life(col)	6.6730E+03	6.8432E+03	0.0007	k(col/abs/tk ln)
0.640153	0.0006	0.640165	0.0006	
rem life(abs)	6.6922E+03	6.8437E+03	0.0007	life(col/abs/tl)
6.8453E+03	0.0006	6.8506E+03	0.0005	
source points generated	4994			

estimator	cycle	725	ave of	675 cycles	combination
simple average	combined average		corr		
k(collision)	0.635470	0.640138	0.0006	k(col/abs)	
0.640155	0.0006	0.640160	0.0006	0.8411	
k(absorption)	0.635891	0.640173	0.0006	k(abs/tk ln)	
0.640158	0.0006	0.640166	0.0006	0.4273	
k(trk length)	0.644571	0.640143	0.0009	k(tk ln/col)	
0.640140	0.0007	0.640139	0.0006	0.5437	
rem life(col)	6.8404E+03	6.8432E+03	0.0007	k(col/abs/tk ln)	
0.640151	0.0006	0.640161	0.0006		
rem life(abs)	6.8446E+03	6.8437E+03	0.0007	life(col/abs/tl)	
6.8453E+03	0.0006	6.8507E+03	0.0005		
source points generated	4958				

estimator	cycle	726	ave of	676 cycles	combination
simple average	combined average		corr		
k(collision)	0.645948	0.640146	0.0006	k(col/abs)	
0.640163	0.0006	0.640168	0.0006	0.8412	
k(absorption)	0.645367	0.640180	0.0006	k(abs/tk ln)	
0.640173	0.0006	0.640177	0.0006	0.4277	
k(trk length)	0.654979	0.640165	0.0009	k(tk ln/col)	
0.640156	0.0007	0.640150	0.0006	0.5440	
rem life(col)	6.8386E+03	6.8432E+03	0.0007	k(col/abs/tk ln)	
0.640164	0.0006	0.640172	0.0006		
rem life(abs)	6.8496E+03	6.8437E+03	0.0007	life(col/abs/tl)	
6.8453E+03	0.0006	6.8508E+03	0.0005		
source points generated	5110				

estimator	cycle	727	ave of	677 cycles	combination
simple average	combined average		corr		
k(collision)	0.636924	0.640142	0.0006	k(col/abs)	
0.640163	0.0006	0.640169	0.0006	0.8409	
k(absorption)	0.642902	0.640184	0.0006	k(abs/tk ln)	
0.640174	0.0006	0.640179	0.0006	0.4276	
k(trk length)	0.638778	0.640163	0.0009	k(tk ln/col)	
0.640152	0.0007	0.640146	0.0006	0.5440	
rem life(col)	7.0207E+03	6.8434E+03	0.0007	k(col/abs/tk ln)	
0.640163	0.0006	0.640173	0.0006		
rem life(abs)	6.9840E+03	6.8439E+03	0.0007	life(col/abs/tl)	
6.8455E+03	0.0006	6.8507E+03	0.0005		
source points generated	4862				

estimator	cycle	728	ave of	678 cycles	combination
simple average	combined average		corr		

k(collision)	0.621667	0.640114	0.0006	k(col/abs)
0.640142	0.0006	0.640150	0.0006	0.8410
k(absorption)	0.630049	0.640169	0.0006	k(abs/tk ln)
0.640152	0.0006	0.640161	0.0006	0.4287
k(trk length)	0.620999	0.640134	0.0009	k(tk ln/col)
0.640124	0.0007	0.640119	0.0006	0.5455
rem life(col)	6.9894E+03	6.8436E+03	0.0007	k(col/abs/tk ln)
0.640139	0.0006	0.640154	0.0006	
rem life(abs)	6.9808E+03	6.8441E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8507E+03	0.0005	
source points generated	4880			

estimator	cycle	729	ave of	679 cycles	combination
simple average	combined average		corr		
k(collision)	0.640529	0.640115	0.0006	k(col/abs)	
0.640146	0.0006	0.640155	0.0006	0.8409	
k(absorption)	0.645341	0.640177	0.0006	k(abs/tk ln)	
0.640156	0.0006	0.640167	0.0006	0.4286	
k(trk length)	0.640617	0.640135	0.0009	k(tk ln/col)	
0.640125	0.0007	0.640119	0.0006	0.5455	
rem life(col)	6.8006E+03	6.8436E+03	0.0007	k(col/abs/tk ln)	
0.640142	0.0006	0.640159	0.0006		
rem life(abs)	6.7846E+03	6.8440E+03	0.0007	life(col/abs/tl)	
6.8456E+03	0.0006	6.8509E+03	0.0005		
source points generated	5082				

estimator	cycle	730	ave of	680 cycles	combination
simple average	combined average		corr		
k(collision)	0.639788	0.640114	0.0006	k(col/abs)	
0.640145	0.0006	0.640153	0.0006	0.8409	
k(absorption)	0.638524	0.640175	0.0006	k(abs/tk ln)	
0.640147	0.0006	0.640162	0.0006	0.4286	
k(trk length)	0.628882	0.640119	0.0009	k(tk ln/col)	
0.640116	0.0007	0.640115	0.0006	0.5453	
rem life(col)	6.9761E+03	6.8438E+03	0.0007	k(col/abs/tk ln)	
0.640136	0.0006	0.640154	0.0006		
rem life(abs)	6.9664E+03	6.8442E+03	0.0007	life(col/abs/tl)	
6.8458E+03	0.0006	6.8510E+03	0.0005		
source points generated	4983				

estimator	cycle	731	ave of	681 cycles	combination
simple average	combined average		corr		
k(collision)	0.622940	0.640089	0.0006	k(col/abs)	
0.640121	0.0006	0.640131	0.0006	0.8414	
k(absorption)	0.625431	0.640153	0.0006	k(abs/tk ln)	
0.640111	0.0006	0.640134	0.0006	0.4312	
k(trk length)	0.606642	0.640069	0.0009	k(tk ln/col)	
0.640079	0.0007	0.640085	0.0006	0.5475	
rem life(col)	6.6328E+03	6.8435E+03	0.0007	k(col/abs/tk ln)	
0.640104	0.0006	0.640126	0.0006		
rem life(abs)	6.6205E+03	6.8439E+03	0.0007	life(col/abs/tl)	
6.8455E+03	0.0006	6.8508E+03	0.0005		
source points generated	4856				

estimator	cycle	732	ave of	682 cycles	combination
simple average	combined average		corr		
k(collision)	0.630089		0.640075	0.0006	k(col/abs)
0.640105 0.0006	0.640114	0.0006	0.8416		
k(absorption)	0.627589		0.640135	0.0006	k(abs/tk ln)
0.640099 0.0006	0.640118	0.0006	0.4313		
k(trk length)	0.635292		0.640062	0.0009	k(tk ln/col)
0.640068 0.0007	0.640072	0.0006	0.5476		
rem life(col)	7.1413E+03		6.8439E+03	0.0007	k(col/abs/tk ln)
0.640091 0.0006	0.640110	0.0006			
rem life(abs)	7.1456E+03		6.8443E+03	0.0007	life(col/abs/tl)
6.8459E+03 0.0006	6.8511E+03	0.0005			
source points generated	5075				

estimator	cycle	733	ave of	683 cycles	combination
simple average	combined average		corr		
k(collision)	0.632905		0.640064	0.0006	k(col/abs)
0.640098 0.0006	0.640108	0.0006	0.8415		
k(absorption)	0.638517		0.640132	0.0006	k(abs/tk ln)
0.640093 0.0006	0.640114	0.0006	0.4313		
k(trk length)	0.633642		0.640053	0.0009	k(tk ln/col)
0.640059 0.0007	0.640062	0.0006	0.5478		
rem life(col)	6.7312E+03		6.8437E+03	0.0007	k(col/abs/tk ln)
0.640083 0.0006	0.640105	0.0006			
rem life(abs)	6.7134E+03		6.8441E+03	0.0007	life(col/abs/tl)
6.8457E+03 0.0006	6.8510E+03	0.0005			
source points generated	5069				

estimator	cycle	734	ave of	684 cycles	combination
simple average	combined average		corr		
k(collision)	0.629085		0.640048	0.0006	k(col/abs)
0.640086 0.0006	0.640098	0.0006	0.8414		
k(absorption)	0.635056		0.640125	0.0006	k(abs/tk ln)
0.640085 0.0006	0.640106	0.0006	0.4315		
k(trk length)	0.634153		0.640044	0.0009	k(tk ln/col)
0.640046 0.0007	0.640047	0.0006	0.5479		
rem life(col)	6.8394E+03		6.8437E+03	0.0007	k(col/abs/tk ln)
0.640072 0.0006	0.640096	0.0006			
rem life(abs)	6.7960E+03		6.8441E+03	0.0007	life(col/abs/tl)
6.8457E+03 0.0006	6.8511E+03	0.0005			
source points generated	4992				

estimator	cycle	735	ave of	685 cycles	combination
simple average	combined average		corr		
k(collision)	0.628202		0.640031	0.0006	k(col/abs)
0.640074 0.0006	0.640088	0.0006	0.8413		
k(absorption)	0.635641		0.640118	0.0006	k(abs/tk ln)
0.640084 0.0006	0.640103	0.0006	0.4312		
k(trk length)	0.644093		0.640050	0.0009	k(tk ln/col)
0.640040 0.0007	0.640035	0.0006	0.5469		
rem life(col)	7.0440E+03		6.8440E+03	0.0007	k(col/abs/tk ln)
0.640066 0.0006	0.640091	0.0006			
rem life(abs)	7.0058E+03		6.8443E+03	0.0007	life(col/abs/tl)
6.8460E+03 0.0006	6.8514E+03	0.0005			

source points generated 5002

estimator	cycle	736	ave of	686 cycles	combination
simple average	combined average		corr		
k(collision)	0.649371		0.640044	0.0006	k(col/abs)
0.640088 0.0006	0.640102	0.0006	0.8414		
k(absorption)	0.649771		0.640132	0.0006	k(abs/tk ln)
0.640087 0.0006	0.640112	0.0006	0.4303		
k(trk length)	0.634716		0.640043	0.0009	k(tk ln/col)
0.640043 0.0007	0.640044	0.0006	0.5461		
rem life(col)	6.9876E+03		6.8442E+03	0.0007	k(col/abs/tk ln)
0.640073 0.0006	0.640100	0.0006			
rem life(abs)	7.0094E+03		6.8445E+03	0.0007	life(col/abs/tl)
6.8462E+03 0.0006	6.8514E+03	0.0005			

source points generated 5123

estimator	cycle	737	ave of	687 cycles	combination
simple average	combined average		corr		
k(collision)	0.642084		0.640047	0.0006	k(col/abs)
0.640093 0.0006	0.640107	0.0006	0.8414		
k(absorption)	0.644635		0.640139	0.0006	k(abs/tk ln)
0.640086 0.0006	0.640114	0.0006	0.4299		
k(trk length)	0.633233		0.640033	0.0008	k(tk ln/col)
0.640040 0.0007	0.640044	0.0006	0.5459		
rem life(col)	6.8511E+03		6.8442E+03	0.0007	k(col/abs/tk ln)
0.640073 0.0006	0.640103	0.0006			
rem life(abs)	6.8493E+03		6.8445E+03	0.0007	life(col/abs/tl)
6.8462E+03 0.0006	6.8514E+03	0.0005			

source points generated 4971

estimator	cycle	738	ave of	688 cycles	combination
simple average	combined average		corr		
k(collision)	0.631172		0.640034	0.0006	k(col/abs)
0.640087 0.0006	0.640103	0.0006	0.8410		
k(absorption)	0.640345		0.640139	0.0006	k(abs/tk ln)
0.640069 0.0006	0.640107	0.0006	0.4291		
k(trk length)	0.617365		0.640000	0.0008	k(tk ln/col)
0.640017 0.0007	0.640027	0.0006	0.5465		
rem life(col)	6.8651E+03		6.8443E+03	0.0007	k(col/abs/tk ln)
0.640058 0.0006	0.640095	0.0006			
rem life(abs)	6.8308E+03		6.8445E+03	0.0007	life(col/abs/tl)
6.8462E+03 0.0006	6.8514E+03	0.0005			

source points generated 4934

estimator	cycle	739	ave of	689 cycles	combination
simple average	combined average		corr		
k(collision)	0.632633		0.640024	0.0006	k(col/abs)
0.640082 0.0006	0.640100	0.0006	0.8406		
k(absorption)	0.640905		0.640140	0.0006	k(abs/tk ln)
0.640075 0.0006	0.640110	0.0006	0.4291		
k(trk length)	0.646597		0.640009	0.0008	k(tk ln/col)
0.640016 0.0007	0.640021	0.0006	0.5458		
rem life(col)	6.9759E+03		6.8445E+03	0.0007	k(col/abs/tk ln)
0.640058 0.0006	0.640096	0.0006			

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rem life(abs)    6.9284E+03    6.8446E+03 0.0007    life(col/abs/tl)
6.8463E+03 0.0006    6.8515E+03 0.0005
source points generated    4999

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estimator    cycle    740    ave of    690 cycles    combination
simple average    combined average    corr
k(collision)    0.636091    0.640018 0.0006    k(col/abs)
0.640077 0.0006    0.640096 0.0006    0.8406
k(absorption)    0.637852    0.640137 0.0006    k(abs/tk ln)
0.640070 0.0006    0.640106 0.0006    0.4291
k(trk length)    0.635995    0.640003 0.0008    k(tk ln/col)
0.640011 0.0007    0.640015 0.0006    0.5458
rem life(col)    6.7964E+03    6.8444E+03 0.0007    k(col/abs/tk ln)
0.640053 0.0006    0.640092 0.0006
rem life(abs)    6.8222E+03    6.8446E+03 0.0007    life(col/abs/tl)
6.8463E+03 0.0006    6.8515E+03 0.0005
source points generated    5031

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estimator    cycle    741    ave of    691 cycles    combination
simple average    combined average    corr
k(collision)    0.621908    0.639992 0.0006    k(col/abs)
0.640056 0.0006    0.640077 0.0006    0.8408
k(absorption)    0.629240    0.640121 0.0006    k(abs/tk ln)
0.640050 0.0006    0.640088 0.0006    0.4302
k(trk length)    0.622500    0.639978 0.0008    k(tk ln/col)
0.639985 0.0007    0.639989 0.0006    0.5471
rem life(col)    7.2226E+03    6.8449E+03 0.0007    k(col/abs/tk ln)
0.640030 0.0006    0.640073 0.0006
rem life(abs)    7.1788E+03    6.8451E+03 0.0007    life(col/abs/tl)
6.8467E+03 0.0006    6.8518E+03 0.0005
source points generated    4877

```

```

estimator    cycle    742    ave of    692 cycles    combination
simple average    combined average    corr
k(collision)    0.656680    0.640016 0.0006    k(col/abs)
0.640071 0.0006    0.640089 0.0006    0.8400
k(absorption)    0.643327    0.640126 0.0006    k(abs/tk ln)
0.640070 0.0006    0.640100 0.0006    0.4300
k(trk length)    0.665428    0.640015 0.0008    k(tk ln/col)
0.640015 0.0007    0.640016 0.0006    0.5489
rem life(col)    6.8503E+03    6.8449E+03 0.0007    k(col/abs/tk ln)
0.640052 0.0006    0.640087 0.0006
rem life(abs)    6.8652E+03    6.8451E+03 0.0007    life(col/abs/tl)
6.8467E+03 0.0006    6.8518E+03 0.0005
source points generated    5271

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estimator    cycle    743    ave of    693 cycles    combination
simple average    combined average    corr
k(collision)    0.637316    0.640012 0.0006    k(col/abs)
0.640075 0.0006    0.640096 0.0006    0.8392
k(absorption)    0.648891    0.640138 0.0006    k(abs/tk ln)
0.640089 0.0006    0.640116 0.0006    0.4308
k(trk length)    0.657037    0.640039 0.0008    k(tk ln/col)
0.640026 0.0007    0.640018 0.0006    0.5479

```

rem life(col)	6.6475E+03	6.8447E+03	0.0007	k(col/abs/tk ln)
0.640063	0.0006	0.640100	0.0006	
rem life(abs)	6.6372E+03	6.8448E+03	0.0007	life(col/abs/tl)
6.8465E+03	0.0006	6.8517E+03	0.0005	
source points generated	4866			

estimator	cycle	744	ave of	694 cycles	combination
simple average	combined average		corr		
k(collision)	0.616343		0.639978	0.0006	k(col/abs)
0.640045	0.0006	0.640067	0.0006	0.8400	
k(absorption)	0.621670		0.640112	0.0006	k(abs/tk ln)
0.640074	0.0006	0.640094	0.0006	0.4302	
k(trk length)	0.637474		0.640036	0.0008	k(tk ln/col)
0.640007	0.0007	0.639990	0.0006	0.5465	
rem life(col)	6.9752E+03		6.8448E+03	0.0007	k(col/abs/tk ln)
0.640042	0.0006	0.640077	0.0006		
rem life(abs)	6.9500E+03		6.8450E+03	0.0007	life(col/abs/tl)
6.8466E+03	0.0006	6.8518E+03	0.0005		
source points generated	4809				

estimator	cycle	745	ave of	695 cycles	combination
simple average	combined average		corr		
k(collision)	0.634710		0.639970	0.0006	k(col/abs)
0.640035	0.0006	0.640056	0.0006	0.8400	
k(absorption)	0.631007		0.640099	0.0006	k(abs/tk ln)
0.640072	0.0006	0.640086	0.0006	0.4294	
k(trk length)	0.646214		0.640045	0.0008	k(tk ln/col)
0.640007	0.0007	0.639986	0.0006	0.5461	
rem life(col)	6.7352E+03		6.8447E+03	0.0007	k(col/abs/tk ln)
0.640038	0.0006	0.640069	0.0006		
rem life(abs)	6.7478E+03		6.8448E+03	0.0007	life(col/abs/tl)
6.8465E+03	0.0006	6.8518E+03	0.0005		
source points generated	5137				

estimator	cycle	746	ave of	696 cycles	combination
simple average	combined average		corr		
k(collision)	0.627751		0.639953	0.0006	k(col/abs)
0.640013	0.0006	0.640032	0.0006	0.8402	
k(absorption)	0.622212		0.640073	0.0006	k(abs/tk ln)
0.640063	0.0006	0.640068	0.0006	0.4274	
k(trk length)	0.645506		0.640052	0.0008	k(tk ln/col)
0.640003	0.0007	0.639974	0.0006	0.5449	
rem life(col)	6.9111E+03		6.8448E+03	0.0007	k(col/abs/tk ln)
0.640026	0.0006	0.640051	0.0006		
rem life(abs)	6.9319E+03		6.8450E+03	0.0007	life(col/abs/tl)
6.8466E+03	0.0006	6.8519E+03	0.0005		
source points generated	4979				

estimator	cycle	747	ave of	697 cycles	combination
simple average	combined average		corr		
k(collision)	0.636829		0.639948	0.0006	k(col/abs)
0.640007	0.0006	0.640025	0.0006	0.8402	
k(absorption)	0.634346		0.640065	0.0006	k(abs/tk ln)
0.640033	0.0006	0.640050	0.0006	0.4274	

k(trk length)	0.603720	0.640000	0.0008	k(tk ln/col)
0.639974	0.0007	0.639959	0.0006	0.5434
rem life(col)	7.0289E+03	6.8450E+03	0.0007	k(col/abs/tk ln)
0.640004	0.0006	0.640034	0.0006	
rem life(abs)	7.0231E+03	6.8452E+03	0.0007	life(col/abs/tl)
6.8468E+03	0.0006	6.8518E+03	0.0005	
source points generated	5045			

estimator	cycle	748	ave of	698 cycles	combination
simple average	combined average		corr		
k(collision)	0.645910		0.639957	0.0006	k(col/abs)
0.640015	0.0006	0.640034	0.0006	0.8403	
k(absorption)	0.646465		0.640074	0.0006	k(abs/tk ln)
0.640038	0.0006	0.640057	0.0006	0.4273	
k(trk length)	0.640510		0.640001	0.0008	k(tk ln/col)
0.639979	0.0007	0.639966	0.0006	0.5433	
rem life(col)	6.9241E+03		6.8452E+03	0.0007	k(col/abs/tk ln)
0.640011	0.0006	0.640042	0.0006		
rem life(abs)	6.9173E+03		6.8453E+03	0.0007	life(col/abs/tl)
6.8469E+03	0.0006	6.8519E+03	0.0005		
source points generated	5084				

estimator	cycle	749	ave of	699 cycles	combination
simple average	combined average		corr		
k(collision)	0.662078		0.639988	0.0006	k(col/abs)
0.640043	0.0006	0.640061	0.0006	0.8409	
k(absorption)	0.656406		0.640097	0.0006	k(abs/tk ln)
0.640060	0.0006	0.640080	0.0006	0.4286	
k(trk length)	0.654986		0.640023	0.0008	k(tk ln/col)
0.640005	0.0007	0.639996	0.0006	0.5443	
rem life(col)	6.6103E+03		6.8448E+03	0.0007	k(col/abs/tk ln)
0.640036	0.0006	0.640066	0.0006		
rem life(abs)	6.6337E+03		6.8450E+03	0.0007	life(col/abs/tl)
6.8466E+03	0.0006	6.8518E+03	0.0005		
source points generated	5089				

estimator	cycle	750	ave of	700 cycles	combination
simple average	combined average		corr		
k(collision)	0.652449		0.640006	0.0006	k(col/abs)
0.640069	0.0006	0.640089	0.0006	0.8407	
k(absorption)	0.664293		0.640132	0.0006	k(abs/tk ln)
0.640074	0.0006	0.640105	0.0006	0.4259	
k(trk length)	0.635854		0.640017	0.0008	k(tk ln/col)
0.640011	0.0007	0.640008	0.0006	0.5433	
rem life(col)	6.5810E+03		6.8444E+03	0.0007	k(col/abs/tk ln)
0.640052	0.0006	0.640089	0.0006		
rem life(abs)	6.5453E+03		6.8446E+03	0.0007	life(col/abs/tl)
6.8463E+03	0.0006	6.8515E+03	0.0005		
source points generated	4927				

estimator	cycle	751	ave of	701 cycles	combination
simple average	combined average		corr		
k(collision)	0.646395		0.640015	0.0006	k(col/abs)
0.640074	0.0006	0.640092	0.0006	0.8405	

k(absorption)	0.640051	0.640132	0.0006	k(abs/tk ln)
0.640080	0.0006	0.640107	0.0006	0.4258
k(trk length)	0.647747	0.640028	0.0008	k(tk ln/col)
0.640021	0.0007	0.640018	0.0006	0.5435
rem life(col)	6.7449E+03	6.8443E+03	0.0007	k(col/abs/tk ln)
0.640058	0.0006	0.640093	0.0006	
rem life(abs)	6.7365E+03	6.8444E+03	0.0007	life(col/abs/tl)
6.8461E+03	0.0006	6.8514E+03	0.0005	
source points generated	4952			

estimator	cycle	752	ave of	702 cycles	combination
simple average	combined average		corr		
k(collision)	0.632263	0.640004	0.0006	k(col/abs)	
0.640068	0.0006	0.640089	0.0006	0.8401	
k(absorption)	0.640744	0.640133	0.0006	k(abs/tk ln)	
0.640081	0.0006	0.640109	0.0006	0.4258	
k(trk length)	0.641390	0.640030	0.0008	k(tk ln/col)	
0.640017	0.0007	0.640010	0.0006	0.5432	
rem life(col)	6.7364E+03	6.8441E+03	0.0007	k(col/abs/tk ln)	
0.640056	0.0006	0.640092	0.0006		
rem life(abs)	6.7050E+03	6.8442E+03	0.0007	life(col/abs/tl)	
6.8460E+03	0.0006	6.8513E+03	0.0005		
source points generated	4888				

estimator	cycle	753	ave of	703 cycles	combination
simple average	combined average		corr		
k(collision)	0.641835	0.640007	0.0006	k(col/abs)	
0.640079	0.0006	0.640100	0.0006	0.8395	
k(absorption)	0.652549	0.640150	0.0006	k(abs/tk ln)	
0.640066	0.0006	0.640111	0.0006	0.4197	
k(trk length)	0.606882	0.639982	0.0008	k(tk ln/col)	
0.639995	0.0007	0.640002	0.0006	0.5405	
rem life(col)	6.5415E+03	6.8437E+03	0.0007	k(col/abs/tk ln)	
0.640047	0.0006	0.640094	0.0006		
rem life(abs)	6.5177E+03	6.8438E+03	0.0007	life(col/abs/tl)	
6.8455E+03	0.0006	6.8510E+03	0.0005		
source points generated	5019				

estimator	cycle	754	ave of	704 cycles	combination
simple average	combined average		corr		
k(collision)	0.659083	0.640034	0.0006	k(col/abs)	
0.640103	0.0006	0.640124	0.0006	0.8401	
k(absorption)	0.655525	0.640172	0.0006	k(abs/tk ln)	
0.640090	0.0006	0.640134	0.0006	0.4213	
k(trk length)	0.658096	0.640008	0.0008	k(tk ln/col)	
0.640021	0.0007	0.640028	0.0006	0.5419	
rem life(col)	6.8451E+03	6.8437E+03	0.0007	k(col/abs/tk ln)	
0.640071	0.0006	0.640118	0.0006		
rem life(abs)	6.8475E+03	6.8438E+03	0.0007	life(col/abs/tl)	
6.8455E+03	0.0006	6.8509E+03	0.0005		
source points generated	5121				

estimator	cycle	755	ave of	705 cycles	combination
simple average	combined average		corr		

k(collision)	0.646037	0.640042	0.0006	k(col/abs)
0.640111	0.0006	0.640132	0.0006	0.8401
k(absorption)	0.645576	0.640180	0.0006	k(abs/tk ln)
0.640099	0.0006	0.640142	0.0006	0.4215
k(trk length)	0.646609	0.640017	0.0008	k(tk ln/col)
0.640030	0.0007	0.640037	0.0006	0.5421
rem life(col)	6.8983E+03	6.8438E+03	0.0007	k(col/abs/tk ln)
0.640080	0.0006	0.640126	0.0006	
rem life(abs)	6.9065E+03	6.8439E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8511E+03	0.0005	
source points generated	4892			

estimator	cycle	756	ave of	706 cycles	combination
simple average	combined average		corr		
k(collision)	0.651967		0.640059	0.0006	k(col/abs)
0.640127	0.0006	0.640148	0.0006	0.8404	
k(absorption)	0.650211		0.640194	0.0006	k(abs/tk ln)
0.640114	0.0006	0.640157	0.0006	0.4221	
k(trk length)	0.651477		0.640034	0.0008	k(tk ln/col)
0.640047	0.0007	0.640054	0.0006	0.5426	
rem life(col)	6.9527E+03		6.8440E+03	0.0007	k(col/abs/tk ln)
0.640096	0.0006	0.640141	0.0006		
rem life(abs)	6.9607E+03		6.8440E+03	0.0007	life(col/abs/tl)
6.8457E+03	0.0006	6.8510E+03	0.0005		
source points generated	5019				

estimator	cycle	757	ave of	707 cycles	combination
simple average	combined average		corr		
k(collision)	0.625735		0.640039	0.0006	k(col/abs)
0.640112	0.0006	0.640136	0.0006	0.8402	
k(absorption)	0.634271		0.640186	0.0006	k(abs/tk ln)
0.640115	0.0006	0.640153	0.0006	0.4214	
k(trk length)	0.648203		0.640045	0.0008	k(tk ln/col)
0.640042	0.0006	0.640040	0.0006	0.5407	
rem life(col)	6.7364E+03		6.8438E+03	0.0007	k(col/abs/tk ln)
0.640090	0.0006	0.640135	0.0006		
rem life(abs)	6.6920E+03		6.8438E+03	0.0007	life(col/abs/tl)
6.8455E+03	0.0006	6.8508E+03	0.0005		
source points generated	4804				

estimator	cycle	758	ave of	708 cycles	combination
simple average	combined average		corr		
k(collision)	0.629470		0.640024	0.0006	k(col/abs)
0.640099	0.0006	0.640123	0.0006	0.8404	
k(absorption)	0.631708		0.640174	0.0006	k(abs/tk ln)
0.640099	0.0006	0.640139	0.0006	0.4221	
k(trk length)	0.625801		0.640025	0.0008	k(tk ln/col)
0.640025	0.0006	0.640024	0.0006	0.5414	
rem life(col)	6.9069E+03		6.8439E+03	0.0007	k(col/abs/tk ln)
0.640074	0.0006	0.640121	0.0006		
rem life(abs)	6.8940E+03		6.8439E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8509E+03	0.0005		
source points generated	5042				

estimator	cycle	759	ave of	709 cycles	combination
simple average	combined average		corr		
k(collision)	0.636962		0.640020	0.0006	k(col/abs)
0.640097 0.0006	0.640121	0.0006	0.8403		
k(absorption)	0.639742		0.640173	0.0006	k(abs/tk ln)
0.640106 0.0006	0.640142	0.0006	0.4219		
k(trk length)	0.649877		0.640039	0.0008	k(tk ln/col)
0.640029 0.0006	0.640024	0.0006	0.5409		
rem life(col)	6.7969E+03		6.8438E+03	0.0007	k(col/abs/tk ln)
0.640077 0.0006	0.640123	0.0006			
rem life(abs)	6.7769E+03		6.8438E+03	0.0007	life(col/abs/tl)
6.8455E+03 0.0006	6.8508E+03	0.0005			
source points generated 5085					

estimator	cycle	760	ave of	710 cycles	combination
simple average	combined average		corr		
k(collision)	0.650045		0.640034	0.0006	k(col/abs)
0.640112 0.0006	0.640137	0.0006	0.8405		
k(absorption)	0.652498		0.640190	0.0006	k(abs/tk ln)
0.640118 0.0006	0.640157	0.0006	0.4220		
k(trk length)	0.644764		0.640046	0.0008	k(tk ln/col)
0.640040 0.0006	0.640037	0.0006	0.5409		
rem life(col)	7.0185E+03		6.8441E+03	0.0007	k(col/abs/tk ln)
0.640090 0.0006	0.640138	0.0006			
rem life(abs)	6.9986E+03		6.8440E+03	0.0007	life(col/abs/tl)
6.8457E+03 0.0006	6.8507E+03	0.0005			
source points generated 5160					

estimator	cycle	761	ave of	711 cycles	combination
simple average	combined average		corr		
k(collision)	0.619109		0.640005	0.0006	k(col/abs)
0.640085 0.0006	0.640111	0.0006	0.8412		
k(absorption)	0.622543		0.640166	0.0006	k(abs/tk ln)
0.640092 0.0006	0.640131	0.0006	0.4238		
k(trk length)	0.621111		0.640019	0.0008	k(tk ln/col)
0.640012 0.0006	0.640008	0.0006	0.5424		
rem life(col)	6.6112E+03		6.8437E+03	0.0007	k(col/abs/tk ln)
0.640063 0.0006	0.640112	0.0006			
rem life(abs)	6.6069E+03		6.8437E+03	0.0007	life(col/abs/tl)
6.8454E+03 0.0006	6.8506E+03	0.0005			
source points generated 4792					

estimator	cycle	762	ave of	712 cycles	combination
simple average	combined average		corr		
k(collision)	0.618404		0.639974	0.0006	k(col/abs)
0.640052 0.0006	0.640076	0.0006	0.8422		
k(absorption)	0.614262		0.640129	0.0006	k(abs/tk ln)
0.640058 0.0006	0.640096	0.0006	0.4268		
k(trk length)	0.617160		0.639987	0.0008	k(tk ln/col)
0.639981 0.0006	0.639977	0.0006	0.5444		
rem life(col)	6.9745E+03		6.8439E+03	0.0007	k(col/abs/tk ln)
0.640030 0.0006	0.640077	0.0006			
rem life(abs)	7.0111E+03		6.8439E+03	0.0007	life(col/abs/tl)
6.8456E+03 0.0006	6.8506E+03	0.0005			

source points generated 5011

estimator	cycle	763	ave of	713 cycles	combination
simple average	combined average		corr		
k(collision)	0.632329		0.639964	0.0006	k(col/abs)
0.640037	0.0006	0.640059	0.0006	0.8422	
k(absorption)	0.626269		0.640110	0.0006	k(abs/tk ln)
0.640052	0.0006	0.640083	0.0006	0.4256	
k(trk length)	0.645010		0.639994	0.0008	k(tk ln/col)
0.639979	0.0006	0.639970	0.0006	0.5438	
rem life(col)	6.8423E+03		6.8439E+03	0.0007	k(col/abs/tk ln)
0.640022	0.0006	0.640064	0.0006		
rem life(abs)	6.8418E+03		6.8439E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8508E+03	0.0005		

source points generated 5138

estimator	cycle	764	ave of	714 cycles	combination
simple average	combined average		corr		
k(collision)	0.639663		0.639963	0.0006	k(col/abs)
0.640040	0.0006	0.640063	0.0006	0.8420	
k(absorption)	0.644708		0.640116	0.0006	k(abs/tk ln)
0.640061	0.0006	0.640090	0.0006	0.4258	
k(trk length)	0.648698		0.640006	0.0008	k(tk ln/col)
0.639985	0.0006	0.639972	0.0006	0.5437	
rem life(col)	7.0045E+03		6.8441E+03	0.0007	k(col/abs/tk ln)
0.640029	0.0006	0.640071	0.0006		
rem life(abs)	6.9865E+03		6.8441E+03	0.0007	life(col/abs/tl)
6.8458E+03	0.0006	6.8507E+03	0.0005		

source points generated 5062

estimator	cycle	765	ave of	715 cycles	combination
simple average	combined average		corr		
k(collision)	0.637613		0.639960	0.0006	k(col/abs)
0.640041	0.0006	0.640065	0.0006	0.8418	
k(absorption)	0.643926		0.640122	0.0006	k(abs/tk ln)
0.640060	0.0006	0.640093	0.0006	0.4255	
k(trk length)	0.634329		0.639998	0.0008	k(tk ln/col)
0.639979	0.0006	0.639968	0.0006	0.5437	
rem life(col)	6.9096E+03		6.8442E+03	0.0007	k(col/abs/tk ln)
0.640027	0.0006	0.640072	0.0006		
rem life(abs)	6.8814E+03		6.8442E+03	0.0007	life(col/abs/tl)
6.8458E+03	0.0006	6.8507E+03	0.0005		

source points generated 4936

estimator	cycle	766	ave of	716 cycles	combination
simple average	combined average		corr		
k(collision)	0.636463		0.639955	0.0006	k(col/abs)
0.640033	0.0006	0.640057	0.0006	0.8418	
k(absorption)	0.633147		0.640112	0.0006	k(abs/tk ln)
0.640057	0.0006	0.640086	0.0006	0.4252	
k(trk length)	0.642403		0.640002	0.0008	k(tk ln/col)
0.639978	0.0006	0.639965	0.0006	0.5436	
rem life(col)	6.8227E+03		6.8442E+03	0.0007	k(col/abs/tk ln)
0.640023	0.0006	0.640065	0.0006		

rem life(abs)	6.8361E+03	6.8441E+03	0.0007	life(col/abs/tl)
6.8458E+03	0.0006	6.8506E+03	0.0005	
source points generated	5021			

estimator	cycle	767	ave of	717 cycles	combination
simple average	combined average		corr		
k(collision)	0.643739		0.639960	0.0006	k(col/abs)
0.640040	0.0006	0.640065	0.0006	0.8418	
k(absorption)	0.646268		0.640120	0.0006	k(abs/tk ln)
0.640057	0.0006	0.640090	0.0006	0.4247	
k(trk length)	0.634286		0.639994	0.0008	k(tk ln/col)
0.639977	0.0006	0.639967	0.0006	0.5433	
rem life(col)	6.7330E+03		6.8441E+03	0.0007	k(col/abs/tk ln)
0.640025	0.0006	0.640070	0.0006		
rem life(abs)	6.7063E+03		6.8440E+03	0.0007	life(col/abs/tl)
6.8456E+03	0.0006	6.8506E+03	0.0005		
source points generated	5068				

estimator	cycle	768	ave of	718 cycles	combination
simple average	combined average		corr		
k(collision)	0.637120		0.639956	0.0006	k(col/abs)
0.640032	0.0006	0.640055	0.0006	0.8416	
k(absorption)	0.631133		0.640108	0.0006	k(abs/tk ln)
0.640046	0.0006	0.640078	0.0006	0.4250	
k(trk length)	0.632450		0.639983	0.0008	k(tk ln/col)
0.639970	0.0006	0.639962	0.0006	0.5434	
rem life(col)	6.9721E+03		6.8442E+03	0.0007	k(col/abs/tk ln)
0.640016	0.0006	0.640059	0.0006		
rem life(abs)	6.9450E+03		6.8441E+03	0.0007	life(col/abs/tl)
6.8458E+03	0.0006	6.8507E+03	0.0005		
source points generated	4911				

estimator	cycle	769	ave of	719 cycles	combination
simple average	combined average		corr		
k(collision)	0.644709		0.639963	0.0006	k(col/abs)
0.640041	0.0006	0.640064	0.0006	0.8417	
k(absorption)	0.647586		0.640118	0.0006	k(abs/tk ln)
0.640050	0.0006	0.640086	0.0006	0.4248	
k(trk length)	0.639263		0.639982	0.0008	k(tk ln/col)
0.639972	0.0006	0.639967	0.0006	0.5433	
rem life(col)	6.7721E+03		6.8441E+03	0.0007	k(col/abs/tk ln)
0.640021	0.0006	0.640066	0.0006		
rem life(abs)	6.7666E+03		6.8440E+03	0.0007	life(col/abs/tl)
6.8457E+03	0.0006	6.8506E+03	0.0005		
source points generated	5032				

estimator	cycle	770	ave of	720 cycles	combination
simple average	combined average		corr		
k(collision)	0.624452		0.639941	0.0006	k(col/abs)
0.640024	0.0006	0.640049	0.0006	0.8417	
k(absorption)	0.631909		0.640107	0.0006	k(abs/tk ln)
0.640046	0.0006	0.640078	0.0006	0.4245	
k(trk length)	0.641441		0.639984	0.0008	k(tk ln/col)
0.639963	0.0006	0.639951	0.0006	0.5423	

rem life(col)	6.9867E+03	6.8443E+03	0.0007	k(col/abs/tk ln)
0.640011 0.0006	0.640056	0.0006		
rem life(abs)	6.9527E+03	6.8441E+03	0.0007	life(col/abs/tl)
6.8458E+03 0.0006	6.8508E+03	0.0005		
source points generated	4834			

estimator	cycle	771	ave of	721 cycles	combination
simple average			combined average	corr	
k(collision)	0.631636		0.639930	0.0006	k(col/abs)
0.640022 0.0006	0.640050	0.0006	0.8406		
k(absorption)	0.645279		0.640114	0.0006	k(abs/tk ln)
0.640041 0.0006	0.640079	0.0006	0.4237		
k(trk length)	0.628044		0.639968	0.0008	k(tk ln/col)
0.639949 0.0006	0.639938	0.0006	0.5427		
rem life(col)	6.9225E+03	6.8444E+03	0.0007	k(col/abs/tk ln)	
0.640004 0.0006	0.640056	0.0006			
rem life(abs)	6.8548E+03	6.8441E+03	0.0007	life(col/abs/tl)	
6.8459E+03 0.0006	6.8507E+03	0.0005			
source points generated	5038				

estimator	cycle	772	ave of	722 cycles	combination
simple average			combined average	corr	
k(collision)	0.625090		0.639909	0.0006	k(col/abs)
0.639998 0.0006	0.640024	0.0006	0.8410		
k(absorption)	0.620286		0.640087	0.0006	k(abs/tk ln)
0.640027 0.0006	0.640058	0.0006	0.4226		
k(trk length)	0.639869		0.639967	0.0008	k(tk ln/col)
0.639938 0.0006	0.639922	0.0006	0.5420		
rem life(col)	7.0728E+03	6.8448E+03	0.0007	k(col/abs/tk ln)	
0.639988 0.0006	0.640035	0.0006			
rem life(abs)	7.0785E+03	6.8445E+03	0.0007	life(col/abs/tl)	
6.8462E+03 0.0006	6.8509E+03	0.0005			
source points generated	4938				

estimator	cycle	773	ave of	723 cycles	combination
simple average			combined average	corr	
k(collision)	0.628076		0.639893	0.0006	k(col/abs)
0.639985 0.0006	0.640013	0.0006	0.8411		
k(absorption)	0.633113		0.640077	0.0006	k(abs/tk ln)
0.640026 0.0006	0.640053	0.0006	0.4220		
k(trk length)	0.645891		0.639976	0.0008	k(tk ln/col)
0.639934 0.0006	0.639911	0.0006	0.5408		
rem life(col)	6.8266E+03	6.8447E+03	0.0007	k(col/abs/tk ln)	
0.639982 0.0006	0.640028	0.0006			
rem life(abs)	6.8200E+03	6.8444E+03	0.0007	life(col/abs/tl)	
6.8461E+03 0.0006	6.8510E+03	0.0005			
source points generated	5070				

estimator	cycle	774	ave of	724 cycles	combination
simple average			combined average	corr	
k(collision)	0.633421		0.639884	0.0006	k(col/abs)
0.639973 0.0006	0.640000	0.0006	0.8411		
k(absorption)	0.629615		0.640063	0.0006	k(abs/tk ln)
0.640013 0.0006	0.640039	0.0006	0.4225		

k(trk length)	0.630566	0.639963	0.0008	k(tk ln/col)
0.639923	0.0006	0.639901	0.0006	0.5411
rem life(col)	6.8771E+03	6.8448E+03	0.0007	k(col/abs/tk ln)
0.639970	0.0006	0.640015	0.0006	
rem life(abs)	6.8822E+03	6.8445E+03	0.0007	life(col/abs/tl)
6.8462E+03	0.0006	6.8510E+03	0.0005	
source points generated	5017			

estimator	cycle	775	ave of	725 cycles	combination
simple average	combined average		corr		
k(collision)	0.644332		0.639890	0.0006	k(col/abs)
0.639966	0.0006	0.639988	0.0006	0.8391	
k(absorption)	0.625536		0.640043	0.0006	k(abs/tk ln)
0.640009	0.0006	0.640026	0.0006	0.4206	
k(trk length)	0.648794		0.639975	0.0008	k(tk ln/col)
0.639932	0.0006	0.639909	0.0006	0.5412	
rem life(col)	7.1729E+03		6.8452E+03	0.0007	k(col/abs/tk ln)
0.639969	0.0006	0.640005	0.0006		
rem life(abs)	7.2111E+03		6.8450E+03	0.0007	life(col/abs/tl)
6.8466E+03	0.0006	6.8513E+03	0.0005		
source points generated	5109				

estimator	cycle	776	ave of	726 cycles	combination
simple average	combined average		corr		
k(collision)	0.645544		0.639898	0.0006	k(col/abs)
0.639977	0.0006	0.639999	0.0006	0.8391	
k(absorption)	0.649733		0.640056	0.0006	k(abs/tk ln)
0.640015	0.0006	0.640036	0.0006	0.4203	
k(trk length)	0.639896		0.639975	0.0008	k(tk ln/col)
0.639936	0.0006	0.639915	0.0006	0.5411	
rem life(col)	6.7960E+03		6.8452E+03	0.0007	k(col/abs/tk ln)
0.639976	0.0006	0.640014	0.0006		
rem life(abs)	6.8018E+03		6.8449E+03	0.0007	life(col/abs/tl)
6.8466E+03	0.0006	6.8512E+03	0.0005		
source points generated	5016				

estimator	cycle	777	ave of	727 cycles	combination
simple average	combined average		corr		
k(collision)	0.644957		0.639905	0.0006	k(col/abs)
0.639985	0.0006	0.640008	0.0006	0.8391	
k(absorption)	0.646981		0.640065	0.0006	k(abs/tk ln)
0.640020	0.0006	0.640044	0.0006	0.4202	
k(trk length)	0.640501		0.639975	0.0008	k(tk ln/col)
0.639940	0.0006	0.639920	0.0006	0.5411	
rem life(col)	6.8305E+03		6.8451E+03	0.0007	k(col/abs/tk ln)
0.639982	0.0006	0.640021	0.0006		
rem life(abs)	6.8524E+03		6.8449E+03	0.0007	life(col/abs/tl)
6.8465E+03	0.0006	6.8512E+03	0.0005		
source points generated	5005				

estimator	cycle	778	ave of	728 cycles	combination
simple average	combined average		corr		
k(collision)	0.644951		0.639912	0.0006	k(col/abs)
0.639992	0.0006	0.640015	0.0006	0.8392	

k(absorption)	0.645192	0.640072	0.0006	k(abs/tk ln)
0.640034	0.0006	0.640054	0.0006	0.4206
k(trk length)	0.654933	0.639996	0.0008	k(tk ln/col)
0.639954	0.0006	0.639930	0.0006	0.5412
rem life(col)	6.6940E+03	6.8449E+03	0.0007	k(col/abs/tk ln)
0.639993	0.0006	0.640031	0.0006	
rem life(abs)	6.7420E+03	6.8448E+03	0.0007	life(col/abs/tl)
6.8464E+03	0.0006	6.8511E+03	0.0005	
source points generated	5031			

estimator	cycle	779	ave of	729 cycles	combination
simple average	combined average		corr		
k(collision)	0.638654	0.639910	0.0006	k(col/abs)	
0.639989	0.0006	0.640011	0.0006	0.8392	
k(absorption)	0.636757	0.640068	0.0006	k(abs/tk ln)	
0.640029	0.0006	0.640049	0.0006	0.4207	
k(trk length)	0.635086	0.639989	0.0008	k(tk ln/col)	
0.639950	0.0006	0.639927	0.0006	0.5413	
rem life(col)	7.0112E+03	6.8452E+03	0.0007	k(col/abs/tk ln)	
0.639989	0.0006	0.640026	0.0006		
rem life(abs)	6.9952E+03	6.8450E+03	0.0007	life(col/abs/tl)	
6.8466E+03	0.0006	6.8513E+03	0.0005		
source points generated	4926				

estimator	cycle	780	ave of	730 cycles	combination
simple average	combined average		corr		
k(collision)	0.638179	0.639908	0.0006	k(col/abs)	
0.639989	0.0006	0.640012	0.0006	0.8391	
k(absorption)	0.641610	0.640070	0.0006	k(abs/tk ln)	
0.640026	0.0006	0.640049	0.0006	0.4205	
k(trk length)	0.634328	0.639981	0.0008	k(tk ln/col)	
0.639945	0.0006	0.639924	0.0006	0.5413	
rem life(col)	7.1314E+03	6.8456E+03	0.0007	k(col/abs/tk ln)	
0.639986	0.0006	0.640026	0.0006		
rem life(abs)	7.1137E+03	6.8454E+03	0.0007	life(col/abs/tl)	
6.8469E+03	0.0006	6.8515E+03	0.0005		
source points generated	4978				

estimator	cycle	781	ave of	731 cycles	combination
simple average	combined average		corr		
k(collision)	0.644245	0.639914	0.0006	k(col/abs)	
0.639989	0.0006	0.640010	0.0006	0.8387	
k(absorption)	0.636213	0.640065	0.0006	k(abs/tk ln)	
0.640032	0.0006	0.640049	0.0006	0.4197	
k(trk length)	0.653600	0.640000	0.0008	k(tk ln/col)	
0.639957	0.0006	0.639933	0.0006	0.5414	
rem life(col)	6.6734E+03	6.8453E+03	0.0007	k(col/abs/tk ln)	
0.639993	0.0006	0.640027	0.0006		
rem life(abs)	6.7100E+03	6.8452E+03	0.0007	life(col/abs/tl)	
6.8468E+03	0.0006	6.8514E+03	0.0005		
source points generated	5019				

estimator	cycle	782	ave of	732 cycles	combination
simple average	combined average		corr		

k(collision)	0.633750	0.639905	0.0006	k(col/abs)
0.639983	0.0006	0.640005	0.0006	0.8387
k(absorption)	0.637251	0.640061	0.0006	k(abs/tk ln)
0.640022	0.0006	0.640042	0.0006	0.4198
k(trk length)	0.627944	0.639984	0.0008	k(tk ln/col)
0.639944	0.0006	0.639922	0.0006	0.5417
rem life(col)	6.8793E+03	6.8454E+03	0.0007	k(col/abs/tk ln)
0.639983	0.0006	0.640020	0.0006	
rem life(abs)	6.8894E+03	6.8453E+03	0.0007	life(col/abs/tl)
6.8468E+03	0.0006	6.8514E+03	0.0005	
source points generated	4934			

estimator	cycle	783	ave of	733 cycles	combination
simple average	combined average		corr		
k(collision)	0.637087	0.639901	0.0006	k(col/abs)	
0.639974	0.0006	0.639994	0.0006	0.8384	
k(absorption)	0.629095	0.640046	0.0006	k(abs/tk ln)	
0.640017	0.0006	0.640032	0.0006	0.4192	
k(trk length)	0.642859	0.639988	0.0008	k(tk ln/col)	
0.639944	0.0006	0.639920	0.0006	0.5416	
rem life(col)	6.8144E+03	6.8453E+03	0.0007	k(col/abs/tk ln)	
0.639978	0.0006	0.640011	0.0006		
rem life(abs)	6.7998E+03	6.8452E+03	0.0007	life(col/abs/tl)	
6.8468E+03	0.0006	6.8515E+03	0.0005		
source points generated	5027				

estimator	cycle	784	ave of	734 cycles	combination
simple average	combined average		corr		
k(collision)	0.660996	0.639930	0.0006	k(col/abs)	
0.640008	0.0006	0.640028	0.0006	0.8392	
k(absorption)	0.668982	0.640085	0.0006	k(abs/tk ln)	
0.640052	0.0006	0.640069	0.0006	0.4223	
k(trk length)	0.662741	0.640019	0.0008	k(tk ln/col)	
0.639974	0.0006	0.639949	0.0006	0.5435	
rem life(col)	6.9409E+03	6.8455E+03	0.0007	k(col/abs/tk ln)	
0.640011	0.0006	0.640045	0.0006		
rem life(abs)	6.9504E+03	6.8453E+03	0.0007	life(col/abs/tl)	
6.8469E+03	0.0006	6.8515E+03	0.0005		
source points generated	5185				

estimator	cycle	785	ave of	735 cycles	combination
simple average	combined average		corr		
k(collision)	0.644455	0.639936	0.0006	k(col/abs)	
0.640007	0.0006	0.640025	0.0006	0.8386	
k(absorption)	0.634299	0.640077	0.0006	k(abs/tk ln)	
0.640054	0.0006	0.640066	0.0006	0.4217	
k(trk length)	0.648402	0.640030	0.0008	k(tk ln/col)	
0.639983	0.0006	0.639957	0.0006	0.5436	
rem life(col)	6.9729E+03	6.8456E+03	0.0007	k(col/abs/tk ln)	
0.640015	0.0006	0.640044	0.0006		
rem life(abs)	6.9748E+03	6.8455E+03	0.0007	life(col/abs/tl)	
6.8470E+03	0.0006	6.8516E+03	0.0005		
source points generated	4834				

estimator	cycle	786	ave of	736 cycles	combination
simple average	combined average		corr		
k(collision)	0.626320		0.639918	0.0006	k(col/abs)
0.639987	0.0006	0.640005	0.0006	0.8390	
k(absorption)	0.624532		0.640056	0.0006	k(abs/tk ln)
0.640053	0.0006	0.640055	0.0006	0.4187	
k(trk length)	0.654192		0.640049	0.0008	k(tk ln/col)
0.639983	0.0006	0.639947	0.0006	0.5409	
rem life(col)	6.9671E+03		6.8458E+03	0.0007	k(col/abs/tk ln)
0.640008	0.0006	0.640032	0.0006		
rem life(abs)	6.9931E+03		6.8457E+03	0.0007	life(col/abs/tl)
6.8472E+03	0.0006	6.8516E+03	0.0005		
source points generated 4874					

estimator	cycle	787	ave of	737 cycles	combination
simple average	combined average		corr		
k(collision)	0.629497		0.639904	0.0006	k(col/abs)
0.639974	0.0006	0.639992	0.0006	0.8392	
k(absorption)	0.630552		0.640043	0.0006	k(abs/tk ln)
0.640050	0.0006	0.640047	0.0006	0.4179	
k(trk length)	0.645693		0.640057	0.0008	k(tk ln/col)
0.639980	0.0006	0.639938	0.0006	0.5400	
rem life(col)	6.7524E+03		6.8457E+03	0.0007	k(col/abs/tk ln)
0.640001	0.0006	0.640024	0.0006		
rem life(abs)	6.7308E+03		6.8456E+03	0.0007	life(col/abs/tl)
6.8471E+03	0.0006	6.8516E+03	0.0005		
source points generated 5003					

estimator	cycle	788	ave of	738 cycles	combination
simple average	combined average		corr		
k(collision)	0.631335		0.639892	0.0006	k(col/abs)
0.639969	0.0006	0.639989	0.0006	0.8386	
k(absorption)	0.641764		0.640046	0.0006	k(abs/tk ln)
0.640030	0.0006	0.640038	0.0006	0.4160	
k(trk length)	0.608515		0.640014	0.0008	k(tk ln/col)
0.639953	0.0006	0.639919	0.0006	0.5404	
rem life(col)	6.7111E+03		6.8455E+03	0.0007	k(col/abs/tk ln)
0.639984	0.0006	0.640014	0.0006		
rem life(abs)	6.7132E+03		6.8454E+03	0.0007	life(col/abs/tl)
6.8469E+03	0.0006	6.8515E+03	0.0005		
source points generated 5008					

estimator	cycle	789	ave of	739 cycles	combination
simple average	combined average		corr		
k(collision)	0.647933		0.639903	0.0006	k(col/abs)
0.639982	0.0006	0.640003	0.0006	0.8387	
k(absorption)	0.651976		0.640062	0.0006	k(abs/tk ln)
0.640038	0.0006	0.640050	0.0006	0.4156	
k(trk length)	0.639342		0.640013	0.0008	k(tk ln/col)
0.639958	0.0006	0.639927	0.0006	0.5401	
rem life(col)	6.7858E+03		6.8454E+03	0.0007	k(col/abs/tk ln)
0.639993	0.0006	0.640026	0.0006		
rem life(abs)	6.7457E+03		6.8452E+03	0.0007	life(col/abs/tl)
6.8468E+03	0.0006	6.8513E+03	0.0005		

source points generated 5134

estimator	cycle	790	ave of	740 cycles	combination
simple average	combined average		corr		
k(collision)	0.630902		0.639891	0.0006	k(col/abs)
0.639972	0.0006	0.639993	0.0006	0.8388	
k(absorption)	0.634054		0.640054	0.0006	k(abs/tk ln)
0.640032	0.0006	0.640043	0.0006	0.4156	
k(trk length)	0.638308		0.640011	0.0008	k(tk ln/col)
0.639951	0.0006	0.639917	0.0006	0.5400	
rem life(col)	6.8469E+03		6.8454E+03	0.0007	k(col/abs/tk ln)
0.639985	0.0006	0.640018	0.0006		
rem life(abs)	6.8222E+03		6.8452E+03	0.0007	life(col/abs/tl)
6.8467E+03	0.0006	6.8511E+03	0.0005		

source points generated 4857

estimator	cycle	791	ave of	741 cycles	combination
simple average	combined average		corr		
k(collision)	0.638301		0.639889	0.0006	k(col/abs)
0.639969	0.0006	0.639990	0.0006	0.8388	
k(absorption)	0.637582		0.640050	0.0006	k(abs/tk ln)
0.640043	0.0006	0.640047	0.0006	0.4146	
k(trk length)	0.658791		0.640036	0.0008	k(tk ln/col)
0.639962	0.0006	0.639921	0.0006	0.5391	
rem life(col)	6.8394E+03		6.8454E+03	0.0007	k(col/abs/tk ln)
0.639992	0.0006	0.640021	0.0006		
rem life(abs)	6.8384E+03		6.8452E+03	0.0007	life(col/abs/tl)
6.8467E+03	0.0006	6.8510E+03	0.0005		

source points generated 5109

estimator	cycle	792	ave of	742 cycles	combination
simple average	combined average		corr		
k(collision)	0.631643		0.639877	0.0006	k(col/abs)
0.639970	0.0006	0.639994	0.0006	0.8371	
k(absorption)	0.649289		0.640063	0.0006	k(abs/tk ln)
0.640047	0.0006	0.640055	0.0006	0.4140	
k(trk length)	0.635522		0.640030	0.0008	k(tk ln/col)
0.639954	0.0006	0.639911	0.0006	0.5392	
rem life(col)	7.1073E+03		6.8457E+03	0.0007	k(col/abs/tk ln)
0.639990	0.0006	0.640025	0.0006		
rem life(abs)	7.0701E+03		6.8455E+03	0.0007	life(col/abs/tl)
6.8470E+03	0.0006	6.8511E+03	0.0005		

source points generated 4875

estimator	cycle	793	ave of	743 cycles	combination
simple average	combined average		corr		
k(collision)	0.629369		0.639863	0.0006	k(col/abs)
0.639959	0.0006	0.639983	0.0006	0.8372	
k(absorption)	0.633367		0.640054	0.0006	k(abs/tk ln)
0.640052	0.0006	0.640053	0.0006	0.4126	
k(trk length)	0.655265		0.640051	0.0008	k(tk ln/col)
0.639957	0.0006	0.639905	0.0006	0.5370	
rem life(col)	6.8431E+03		6.8457E+03	0.0007	k(col/abs/tk ln)
0.639989	0.0006	0.640022	0.0006		

```

rem life(abs)    6.8381E+03    6.8455E+03 0.0007    life(col/abs/tl)
6.8470E+03 0.0006    6.8512E+03 0.0005
source points generated    4937

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```

estimator    cycle    794    ave of    744 cycles    combination
simple average    combined average    corr
k(collision)    0.635816    0.639858 0.0006    k(col/abs)
0.639951 0.0006    0.639974 0.0006    0.8371
k(absorption)    0.632309    0.640044 0.0006    k(abs/tk ln)
0.640053 0.0006    0.640048 0.0006    0.4117
k(trk length)    0.648669    0.640062 0.0008    k(tk ln/col)
0.639960 0.0006    0.639903 0.0006    0.5365
rem life(col)    6.7194E+03    6.8456E+03 0.0007    k(col/abs/tk ln)
0.639988 0.0006    0.640017 0.0006
rem life(abs)    6.7480E+03    6.8454E+03 0.0007    life(col/abs/tl)
6.8468E+03 0.0006    6.8511E+03 0.0005
source points generated    5033

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```

estimator    cycle    795    ave of    745 cycles    combination
simple average    combined average    corr
k(collision)    0.653692    0.639876 0.0006    k(col/abs)
0.639970 0.0006    0.639994 0.0006    0.8375
k(absorption)    0.655582    0.640064 0.0006    k(abs/tk ln)
0.640057 0.0006    0.640061 0.0006    0.4098
k(trk length)    0.631299    0.640051 0.0008    k(tk ln/col)
0.639963 0.0006    0.639915 0.0006    0.5347
rem life(col)    6.6607E+03    6.8453E+03 0.0007    k(col/abs/tk ln)
0.639997 0.0006    0.640031 0.0006
rem life(abs)    6.6786E+03    6.8451E+03 0.0007    life(col/abs/tl)
6.8467E+03 0.0006    6.8510E+03 0.0005
source points generated    5155

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```

estimator    cycle    796    ave of    746 cycles    combination
simple average    combined average    corr
k(collision)    0.638204    0.639874 0.0006    k(col/abs)
0.639967 0.0006    0.639991 0.0006    0.8375
k(absorption)    0.636873    0.640060 0.0006    k(abs/tk ln)
0.640045 0.0006    0.640053 0.0006    0.4099
k(trk length)    0.624918    0.640030 0.0008    k(tk ln/col)
0.639952 0.0006    0.639909 0.0006    0.5345
rem life(col)    6.6678E+03    6.8451E+03 0.0007    k(col/abs/tk ln)
0.639988 0.0006    0.640023 0.0006
rem life(abs)    6.6990E+03    6.8449E+03 0.0007    life(col/abs/tl)
6.8465E+03 0.0006    6.8510E+03 0.0005
source points generated    4914

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```

estimator    cycle    797    ave of    747 cycles    combination
simple average    combined average    corr
k(collision)    0.642699    0.639878 0.0006    k(col/abs)
0.639975 0.0006    0.639999 0.0006    0.8374
k(absorption)    0.648282    0.640071 0.0006    k(abs/tk ln)
0.640064 0.0006    0.640068 0.0006    0.4106
k(trk length)    0.660015    0.640057 0.0008    k(tk ln/col)
0.639967 0.0006    0.639917 0.0006    0.5343

```

rem life(col)	6.7075E+03	6.8449E+03	0.0007	k(col/abs/tk ln)
0.640002 0.0006	0.640036	0.0006		
rem life(abs)	6.6751E+03	6.8447E+03	0.0007	life(col/abs/tl)
6.8463E+03 0.0006	6.8510E+03	0.0005		
source points generated	5054			

estimator	cycle	798	ave of	748 cycles	combination
simple average	combined average		corr		
k(collision)	0.652160	0.639894	0.0006	k(col/abs)	
0.639990 0.0006	0.640015	0.0006	0.8377		
k(absorption)	0.651450	0.640086	0.0006	k(abs/tk ln)	
0.640080 0.0006	0.640083	0.0006	0.4113		
k(trk length)	0.651833	0.640073	0.0008	k(tk ln/col)	
0.639984 0.0006	0.639934	0.0006	0.5348		
rem life(col)	6.8750E+03	6.8449E+03	0.0007	k(col/abs/tk ln)	
0.640018 0.0006	0.640052	0.0006			
rem life(abs)	6.8556E+03	6.8447E+03	0.0007	life(col/abs/tl)	
6.8464E+03 0.0006	6.8511E+03	0.0005			
source points generated	5064				

estimator	cycle	799	ave of	749 cycles	combination
simple average	combined average		corr		
k(collision)	0.631426	0.639883	0.0006	k(col/abs)	
0.639981 0.0006	0.640006	0.0006	0.8378		
k(absorption)	0.634321	0.640079	0.0006	k(abs/tk ln)	
0.640080 0.0006	0.640079	0.0006	0.4109		
k(trk length)	0.646377	0.640081	0.0008	k(tk ln/col)	
0.639982 0.0006	0.639927	0.0006	0.5341		
rem life(col)	6.9291E+03	6.8451E+03	0.0007	k(col/abs/tk ln)	
0.640014 0.0006	0.640047	0.0006			
rem life(abs)	6.9202E+03	6.8448E+03	0.0007	life(col/abs/tl)	
6.8465E+03 0.0006	6.8513E+03	0.0005			
source points generated	4861				

estimator	cycle	800	ave of	750 cycles	combination
simple average	combined average		corr		
k(collision)	0.639806	0.639883	0.0006	k(col/abs)	
0.639979 0.0006	0.640003	0.0006	0.8377		
k(absorption)	0.637133	0.640075	0.0006	k(abs/tk ln)	
0.640076 0.0006	0.640075	0.0006	0.4109		
k(trk length)	0.636987	0.640077	0.0008	k(tk ln/col)	
0.639980 0.0006	0.639926	0.0006	0.5340		
rem life(col)	7.0096E+03	6.8453E+03	0.0007	k(col/abs/tk ln)	
0.640012 0.0006	0.640043	0.0006			
rem life(abs)	7.0363E+03	6.8451E+03	0.0007	life(col/abs/tl)	
6.8467E+03 0.0006	6.8515E+03	0.0005			
source points generated	5060				

estimator	cycle	801	ave of	751 cycles	combination
simple average	combined average		corr		
k(collision)	0.640783	0.639884	0.0006	k(col/abs)	
0.639974 0.0006	0.639996	0.0006	0.8372		
k(absorption)	0.631260	0.640063	0.0006	k(abs/tk ln)	
0.640082 0.0006	0.640072	0.0006	0.4089		

k(trk length)	0.657543	0.640100	0.0008	k(tk ln/col)
0.639992	0.0006	0.639932	0.0006	0.5336
rem life(col)	6.8657E+03	6.8453E+03	0.0007	k(col/abs/tk ln)
0.640016	0.0006	0.640041	0.0006	
rem life(abs)	6.8825E+03	6.8451E+03	0.0007	life(col/abs/tl)
6.8468E+03	0.0006	6.8516E+03	0.0005	
source points generated	5009			

estimator	cycle	802	ave of	752 cycles	combination
simple average	combined average		corr		
k(collision)	0.630353		0.639871	0.0006	k(col/abs)
0.639961	0.0006	0.639983	0.0006	0.8374	
k(absorption)	0.630505		0.640050	0.0006	k(abs/tk ln)
0.640069	0.0006	0.640060	0.0006	0.4094	
k(trk length)	0.630905		0.640088	0.0008	k(tk ln/col)
0.639980	0.0006	0.639919	0.0006	0.5340	
rem life(col)	6.8962E+03		6.8454E+03	0.0007	k(col/abs/tk ln)
0.640003	0.0006	0.640029	0.0006		
rem life(abs)	6.8962E+03		6.8452E+03	0.0007	life(col/abs/tl)
6.8468E+03	0.0006	6.8516E+03	0.0005		
source points generated	4911				

estimator	cycle	803	ave of	753 cycles	combination
simple average	combined average		corr		
k(collision)	0.630382		0.639859	0.0006	k(col/abs)
0.639947	0.0006	0.639969	0.0006	0.8376	
k(absorption)	0.628966		0.640036	0.0006	k(abs/tk ln)
0.640041	0.0006	0.640038	0.0006	0.4109	
k(trk length)	0.608725		0.640046	0.0008	k(tk ln/col)
0.639953	0.0006	0.639900	0.0006	0.5346	
rem life(col)	6.7816E+03		6.8453E+03	0.0007	k(col/abs/tk ln)
0.639980	0.0006	0.640008	0.0006		
rem life(abs)	6.7749E+03		6.8451E+03	0.0007	life(col/abs/tl)
6.8468E+03	0.0006	6.8515E+03	0.0005		
source points generated	5003				

estimator	cycle	804	ave of	754 cycles	combination
simple average	combined average		corr		
k(collision)	0.651073		0.639874	0.0006	k(col/abs)
0.639961	0.0006	0.639983	0.0006	0.8378	
k(absorption)	0.649423		0.640048	0.0006	k(abs/tk ln)
0.640046	0.0006	0.640047	0.0006	0.4104	
k(trk length)	0.637645		0.640043	0.0008	k(tk ln/col)
0.639958	0.0006	0.639911	0.0006	0.5339	
rem life(col)	6.6897E+03		6.8451E+03	0.0007	k(col/abs/tk ln)
0.639988	0.0006	0.640018	0.0006		
rem life(abs)	6.6962E+03		6.8449E+03	0.0007	life(col/abs/tl)
6.8465E+03	0.0006	6.8513E+03	0.0005		
source points generated	5131				

estimator	cycle	805	ave of	755 cycles	combination
simple average	combined average		corr		
k(collision)	0.643371		0.639878	0.0006	k(col/abs)
0.639966	0.0006	0.639988	0.0006	0.8378	

k(absorption)	0.643936	0.640053	0.0006	k(abs/tk ln)
0.640047	0.0006	0.640050	0.0006	0.4103
k(trk length)	0.638223	0.640041	0.0008	k(tk ln/col)
0.639960	0.0006	0.639914	0.0006	0.5338
rem life(col)	6.7372E+03	6.8449E+03	0.0007	k(col/abs/tk ln)
0.639991	0.0006	0.640021	0.0006	
rem life(abs)	6.7857E+03	6.8448E+03	0.0007	life(col/abs/tl)
6.8465E+03	0.0006	6.8513E+03	0.0005	
source points generated	4926			

estimator	cycle	806	ave of	756 cycles	combination
simple average	combined average		corr		
k(collision)	0.618586	0.639850	0.0006	k(col/abs)	
0.639938	0.0006	0.639959	0.0006	0.8387	
k(absorption)	0.618751	0.640025	0.0006	k(abs/tk ln)	
0.640017	0.0006	0.640021	0.0006	0.4129	
k(trk length)	0.616759	0.640010	0.0008	k(tk ln/col)	
0.639930	0.0006	0.639885	0.0006	0.5358	
rem life(col)	6.9412E+03	6.8451E+03	0.0007	k(col/abs/tk ln)	
0.639962	0.0006	0.639992	0.0006		
rem life(abs)	6.9527E+03	6.8450E+03	0.0007	life(col/abs/tl)	
6.8466E+03	0.0006	6.8514E+03	0.0005		
source points generated	4770				

estimator	cycle	807	ave of	757 cycles	combination
simple average	combined average		corr		
k(collision)	0.647152	0.639860	0.0006	k(col/abs)	
0.639945	0.0006	0.639967	0.0006	0.8387	
k(absorption)	0.644168	0.640030	0.0006	k(abs/tk ln)	
0.640011	0.0006	0.640021	0.0006	0.4120	
k(trk length)	0.625460	0.639991	0.0008	k(tk ln/col)	
0.639925	0.0006	0.639889	0.0006	0.5343	
rem life(col)	6.5617E+03	6.8447E+03	0.0007	k(col/abs/tk ln)	
0.639960	0.0006	0.639993	0.0006		
rem life(abs)	6.5634E+03	6.8446E+03	0.0007	life(col/abs/tl)	
6.8463E+03	0.0006	6.8512E+03	0.0005		
source points generated	5200				

estimator	cycle	808	ave of	758 cycles	combination
simple average	combined average		corr		
k(collision)	0.665067	0.639893	0.0006	k(col/abs)	
0.639979	0.0006	0.640000	0.0006	0.8399	
k(absorption)	0.665928	0.640065	0.0006	k(abs/tk ln)	
0.640036	0.0006	0.640050	0.0006	0.4129	
k(trk length)	0.652038	0.640007	0.0008	k(tk ln/col)	
0.639950	0.0006	0.639918	0.0006	0.5348	
rem life(col)	6.6245E+03	6.8444E+03	0.0007	k(col/abs/tk ln)	
0.639988	0.0006	0.640024	0.0006		
rem life(abs)	6.6380E+03	6.8443E+03	0.0007	life(col/abs/tl)	
6.8460E+03	0.0006	6.8512E+03	0.0005		
source points generated	5137				

estimator	cycle	809	ave of	759 cycles	combination
simple average	combined average		corr		

k(collision)	0.625665	0.639874	0.0006	k(col/abs)
0.639968	0.0006	0.639992	0.0006	0.8394
k(absorption)	0.637398	0.640061	0.0006	k(abs/tk ln)
0.640016	0.0006	0.640039	0.0006	0.4126
k(trk length)	0.613234	0.639971	0.0008	k(tk ln/col)
0.639923	0.0006	0.639896	0.0006	0.5362
rem life(col)	6.7061E+03	6.8442E+03	0.0007	k(col/abs/tk ln)
0.639969	0.0006	0.640011	0.0006	
rem life(abs)	6.7367E+03	6.8442E+03	0.0007	life(col/abs/tl)
6.8459E+03	0.0006	6.8512E+03	0.0005	
source points generated	4732			

estimator	cycle	810	ave of	760 cycles	combination
simple average	combined	average	corr		
k(collision)	0.649821	0.639887	0.0006	k(col/abs)	
0.639988	0.0006	0.640012	0.0006	0.8392	
k(absorption)	0.660228	0.640088	0.0006	k(abs/tk ln)	
0.640046	0.0006	0.640067	0.0006	0.4153	
k(trk length)	0.665117	0.640004	0.0008	k(tk ln/col)	
0.639946	0.0006	0.639913	0.0006	0.5369	
rem life(col)	6.6302E+03	6.8439E+03	0.0007	k(col/abs/tk ln)	
0.639993	0.0006	0.640035	0.0006		
rem life(abs)	6.5719E+03	6.8438E+03	0.0007	life(col/abs/tl)	
6.8456E+03	0.0006	6.8508E+03	0.0005		
source points generated	5191				

estimator	cycle	811	ave of	761 cycles	combination
simple average	combined	average	corr		
k(collision)	0.643442	0.639892	0.0006	k(col/abs)	
0.639989	0.0006	0.640013	0.0006	0.8390	
k(absorption)	0.638807	0.640086	0.0006	k(abs/tk ln)	
0.640038	0.0006	0.640063	0.0006	0.4152	
k(trk length)	0.629279	0.639990	0.0008	k(tk ln/col)	
0.639941	0.0006	0.639914	0.0006	0.5364	
rem life(col)	6.7574E+03	6.8438E+03	0.0007	k(col/abs/tk ln)	
0.639989	0.0006	0.640032	0.0006		
rem life(abs)	6.7705E+03	6.8437E+03	0.0007	life(col/abs/tl)	
6.8455E+03	0.0006	6.8507E+03	0.0005		
source points generated	4954				

estimator	cycle	812	ave of	762 cycles	combination
simple average	combined	average	corr		
k(collision)	0.642821	0.639896	0.0006	k(col/abs)	
0.639996	0.0006	0.640021	0.0006	0.8389	
k(absorption)	0.648415	0.640097	0.0006	k(abs/tk ln)	
0.640050	0.0006	0.640074	0.0006	0.4156	
k(trk length)	0.649184	0.640002	0.0008	k(tk ln/col)	
0.639949	0.0006	0.639919	0.0006	0.5364	
rem life(col)	6.8719E+03	6.8439E+03	0.0007	k(col/abs/tk ln)	
0.639998	0.0006	0.640042	0.0006		
rem life(abs)	6.8553E+03	6.8438E+03	0.0007	life(col/abs/tl)	
6.8455E+03	0.0006	6.8507E+03	0.0005		
source points generated	5021				

estimator	cycle	813	ave of	763 cycles	combination
simple average	combined average		corr		
k(collision)	0.630454		0.639884	0.0006	k(col/abs)
0.639985 0.0006	0.640009	0.0006	0.8391		
k(absorption)	0.631733		0.640086	0.0006	k(abs/tk ln)
0.640034 0.0006	0.640060	0.0006	0.4163		
k(trk length)	0.624225		0.639982	0.0008	k(tk ln/col)
0.639933 0.0006	0.639905	0.0006	0.5370		
rem life(col)	7.1870E+03		6.8443E+03	0.0007	k(col/abs/tk ln)
0.639984 0.0006	0.640028	0.0006			
rem life(abs)	7.1864E+03		6.8442E+03	0.0007	life(col/abs/tl)
6.8459E+03 0.0006	6.8509E+03	0.0005			
source points generated 4890					

estimator	cycle	814	ave of	764 cycles	combination
simple average	combined average		corr		
k(collision)	0.629205		0.639870	0.0006	k(col/abs)
0.639968 0.0006	0.639992	0.0006	0.8393		
k(absorption)	0.625781		0.640067	0.0006	k(abs/tk ln)
0.640018 0.0006	0.640043	0.0006	0.4169		
k(trk length)	0.630196		0.639969	0.0008	k(tk ln/col)
0.639919 0.0006	0.639891	0.0006	0.5374		
rem life(col)	7.0810E+03		6.8446E+03	0.0007	k(col/abs/tk ln)
0.639969 0.0006	0.640011	0.0006			
rem life(abs)	7.1017E+03		6.8445E+03	0.0007	life(col/abs/tl)
6.8462E+03 0.0006	6.8510E+03	0.0005			
source points generated 4970					

estimator	cycle	815	ave of	765 cycles	combination
simple average	combined average		corr		
k(collision)	0.641480		0.639872	0.0006	k(col/abs)
0.639973 0.0006	0.639997	0.0006	0.8392		
k(absorption)	0.645937		0.640075	0.0006	k(abs/tk ln)
0.640020 0.0006	0.640048	0.0006	0.4167		
k(trk length)	0.637790		0.639966	0.0008	k(tk ln/col)
0.639919 0.0006	0.639892	0.0006	0.5373		
rem life(col)	6.9609E+03		6.8448E+03	0.0007	k(col/abs/tk ln)
0.639971 0.0006	0.640016	0.0006			
rem life(abs)	6.9649E+03		6.8447E+03	0.0007	life(col/abs/tl)
6.8463E+03 0.0006	6.8510E+03	0.0005			
source points generated 5114					

estimator	cycle	816	ave of	766 cycles	combination
simple average	combined average		corr		
k(collision)	0.650928		0.639886	0.0006	k(col/abs)
0.639987 0.0006	0.640011	0.0006	0.8394		
k(absorption)	0.650261		0.640088	0.0006	k(abs/tk ln)
0.640043 0.0006	0.640066	0.0006	0.4178		
k(trk length)	0.664041		0.639998	0.0008	k(tk ln/col)
0.639942 0.0006	0.639910	0.0006	0.5382		
rem life(col)	6.7751E+03		6.8447E+03	0.0007	k(col/abs/tk ln)
0.639991 0.0006	0.640033	0.0006			
rem life(abs)	6.7743E+03		6.8446E+03	0.0007	life(col/abs/tl)
6.8462E+03 0.0006	6.8509E+03	0.0005			

source points generated 5084

estimator	cycle	817	ave of	767 cycles	combination
simple average	combined average		corr		
k(collision)	0.630320		0.639874	0.0006	k(col/abs)
0.639971 0.0006	0.639993	0.0006	0.8395		
k(absorption)	0.624551		0.640068	0.0006	k(abs/tk ln)
0.640023 0.0006	0.640046	0.0006	0.4190		
k(trk length)	0.624785		0.639978	0.0008	k(tk ln/col)
0.639926 0.0006	0.639896	0.0006	0.5388		
rem life(col)	6.9760E+03		6.8448E+03	0.0007	k(col/abs/tk ln)
0.639973 0.0006	0.640014	0.0006			
rem life(abs)	7.0139E+03		6.8448E+03	0.0007	life(col/abs/tl)
6.8464E+03 0.0006	6.8511E+03	0.0005			

source points generated 4810

estimator	cycle	818	ave of	768 cycles	combination
simple average	combined average		corr		
k(collision)	0.643146		0.639878	0.0006	k(col/abs)
0.639972 0.0006	0.639994	0.0006	0.8394		
k(absorption)	0.638814		0.640066	0.0006	k(abs/tk ln)
0.640018 0.0006	0.640043	0.0006	0.4190		
k(trk length)	0.633411		0.639969	0.0008	k(tk ln/col)
0.639924 0.0006	0.639898	0.0006	0.5385		
rem life(col)	6.8852E+03		6.8449E+03	0.0007	k(col/abs/tk ln)
0.639971 0.0006	0.640011	0.0006			
rem life(abs)	6.8969E+03		6.8449E+03	0.0007	life(col/abs/tl)
6.8464E+03 0.0006	6.8511E+03	0.0005			

source points generated 5123

estimator	cycle	819	ave of	769 cycles	combination
simple average	combined average		corr		
k(collision)	0.644496		0.639884	0.0006	k(col/abs)
0.639975 0.0006	0.639997	0.0006	0.8393		
k(absorption)	0.640558		0.640067	0.0006	k(abs/tk ln)
0.640025 0.0006	0.640047	0.0006	0.4189		
k(trk length)	0.650973		0.639983	0.0008	k(tk ln/col)
0.639934 0.0006	0.639905	0.0006	0.5387		
rem life(col)	6.8471E+03		6.8449E+03	0.0007	k(col/abs/tk ln)
0.639978 0.0006	0.640016	0.0005			
rem life(abs)	6.8858E+03		6.8449E+03	0.0007	life(col/abs/tl)
6.8464E+03 0.0006	6.8511E+03	0.0005			

source points generated 4987

estimator	cycle	820	ave of	770 cycles	combination
simple average	combined average		corr		
k(collision)	0.647328		0.639894	0.0006	k(col/abs)
0.639988 0.0006	0.640010	0.0006	0.8394		
k(absorption)	0.652399		0.640083	0.0006	k(abs/tk ln)
0.640039 0.0006	0.640062	0.0006	0.4194		
k(trk length)	0.649334		0.639996	0.0008	k(tk ln/col)
0.639945 0.0006	0.639916	0.0006	0.5389		
rem life(col)	6.6600E+03		6.8447E+03	0.0007	k(col/abs/tk ln)
0.639991 0.0006	0.640030	0.0005			

rem life(abs) 6.6720E+03 6.8447E+03 0.0007 life(col/abs/tl)
6.8463E+03 0.0006 6.8510E+03 0.0005
source points generated 4988

estimator	cycle	821	ave of	771 cycles	combination
simple average	combined average		corr		
k(collision)	0.621925		0.639870	0.0006	k(col/abs)
0.639968	0.0006	0.639991	0.0006	0.8397	
k(absorption)	0.627184		0.640066	0.0006	k(abs/tk ln)
0.640022	0.0006	0.640045	0.0006	0.4202	
k(trk length)	0.626767		0.639978	0.0008	k(tk ln/col)
0.639924	0.0006	0.639894	0.0006	0.5397	
rem life(col)	6.9416E+03		6.8448E+03	0.0007	k(col/abs/tk ln)
0.639972	0.0006	0.640012	0.0005		
rem life(abs)	6.9528E+03		6.8449E+03	0.0007	life(col/abs/tl)
6.8464E+03	0.0006	6.8512E+03	0.0005		
source points generated 4839					

estimator	cycle	822	ave of	772 cycles	combination
simple average	combined average		corr		
k(collision)	0.651702		0.639886	0.0006	k(col/abs)
0.639981	0.0006	0.640003	0.0006	0.8398	
k(absorption)	0.647590		0.640076	0.0006	k(abs/tk ln)
0.640040	0.0006	0.640058	0.0006	0.4208	
k(trk length)	0.659234		0.640003	0.0008	k(tk ln/col)
0.639945	0.0006	0.639911	0.0006	0.5405	
rem life(col)	6.7925E+03		6.8447E+03	0.0007	k(col/abs/tk ln)
0.639988	0.0006	0.640026	0.0005		
rem life(abs)	6.7845E+03		6.8448E+03	0.0007	life(col/abs/tl)
6.8463E+03	0.0006	6.8512E+03	0.0005		
source points generated 5270					

estimator	cycle	823	ave of	773 cycles	combination
simple average	combined average		corr		
k(collision)	0.631217		0.639874	0.0006	k(col/abs)
0.639973	0.0006	0.639996	0.0006	0.8397	
k(absorption)	0.636526		0.640071	0.0006	k(abs/tk ln)
0.640039	0.0006	0.640055	0.0006	0.4207	
k(trk length)	0.642017		0.640006	0.0008	k(tk ln/col)
0.639940	0.0006	0.639903	0.0006	0.5401	
rem life(col)	7.0169E+03		6.8449E+03	0.0007	k(col/abs/tk ln)
0.639984	0.0006	0.640022	0.0005		
rem life(abs)	7.0044E+03		6.8450E+03	0.0007	life(col/abs/tl)
6.8465E+03	0.0006	6.8514E+03	0.0005		
source points generated 4862					

estimator	cycle	824	ave of	774 cycles	combination
simple average	combined average		corr		
k(collision)	0.643445		0.639879	0.0006	k(col/abs)
0.639978	0.0006	0.640002	0.0006	0.8397	
k(absorption)	0.644711		0.640077	0.0006	k(abs/tk ln)
0.640040	0.0006	0.640059	0.0005	0.4206	
k(trk length)	0.637930		0.640003	0.0008	k(tk ln/col)
0.639941	0.0006	0.639906	0.0006	0.5400	

rem life(col)	6.9727E+03	6.8451E+03	0.0007	k(col/abs/tk ln)
0.639987 0.0006	0.640026	0.0005		
rem life(abs)	6.9575E+03	6.8451E+03	0.0007	life(col/abs/tl)
6.8467E+03 0.0006	6.8515E+03	0.0005		
source points generated	5102			

estimator	cycle	825	ave of	775 cycles	combination
simple average	combined average		corr		
k(collision)	0.634048		0.639872	0.0006	k(col/abs)
0.639973 0.0006	0.639998	0.0006	0.8397		
k(absorption)	0.638210		0.640075	0.0006	k(abs/tk ln)
0.640043 0.0006	0.640059	0.0005	0.4205		
k(trk length)	0.645699		0.640011	0.0008	k(tk ln/col)
0.639941 0.0006	0.639902	0.0006	0.5396		
rem life(col)	6.9329E+03	6.8452E+03	0.0007	k(col/abs/tk ln)	
0.639986 0.0006	0.640025	0.0005			
rem life(abs)	6.8971E+03	6.8452E+03	0.0007	life(col/abs/tl)	
6.8467E+03 0.0006	6.8513E+03	0.0005			
source points generated	4884				

estimator	cycle	826	ave of	776 cycles	combination
simple average	combined average		corr		
k(collision)	0.645781		0.639879	0.0006	k(col/abs)
0.639983 0.0006	0.640008	0.0006	0.8397		
k(absorption)	0.649582		0.640087	0.0006	k(abs/tk ln)
0.640056 0.0006	0.640072	0.0005	0.4210		
k(trk length)	0.651504		0.640025	0.0008	k(tk ln/col)
0.639952 0.0006	0.639911	0.0006	0.5398		
rem life(col)	7.0483E+03	6.8455E+03	0.0007	k(col/abs/tk ln)	
0.639997 0.0006	0.640037	0.0005			
rem life(abs)	7.0447E+03	6.8455E+03	0.0007	life(col/abs/tl)	
6.8469E+03 0.0006	6.8513E+03	0.0005			
source points generated	5133				

estimator	cycle	827	ave of	777 cycles	combination
simple average	combined average		corr		
k(collision)	0.649782		0.639892	0.0006	k(col/abs)
0.639997 0.0006	0.640022	0.0006	0.8399		
k(absorption)	0.651415		0.640102	0.0006	k(abs/tk ln)
0.640083 0.0006	0.640093	0.0005	0.4225		
k(trk length)	0.670592		0.640065	0.0008	k(tk ln/col)
0.639978 0.0006	0.639929	0.0006	0.5405		
rem life(col)	6.8058E+03	6.8454E+03	0.0007	k(col/abs/tk ln)	
0.640019 0.0006	0.640055	0.0005			
rem life(abs)	6.7835E+03	6.8454E+03	0.0007	life(col/abs/tl)	
6.8468E+03 0.0006	6.8511E+03	0.0005			
source points generated	5052				

estimator	cycle	828	ave of	778 cycles	combination
simple average	combined average		corr		
k(collision)	0.636287		0.639887	0.0006	k(col/abs)
0.639987 0.0006	0.640010	0.0006	0.8397		
k(absorption)	0.628414		0.640087	0.0006	k(abs/tk ln)
0.640073 0.0006	0.640080	0.0005	0.4225		

k(trk length)	0.635674	0.640059	0.0008	k(tk ln/col)
0.639973	0.0006	0.639924	0.0006	0.5406
rem life(col)	6.7939E+03	6.8454E+03	0.0007	k(col/abs/tk ln)
0.640011	0.0006	0.640044	0.0005	
rem life(abs)	6.8140E+03	6.8453E+03	0.0007	life(col/abs/tl)
6.8468E+03	0.0006	6.8510E+03	0.0005	
source points generated	4906			

estimator	cycle	829	ave of	779 cycles	combination
simple average	combined average		corr		
k(collision)	0.658448	0.639911	0.0006	k(col/abs)	
0.640012	0.0006	0.640035	0.0006	0.8403	
k(absorption)	0.660505	0.640113	0.0006	k(abs/tk ln)	
0.640092	0.0006	0.640103	0.0005	0.4230	
k(trk length)	0.648984	0.640071	0.0008	k(tk ln/col)	
0.639991	0.0006	0.639945	0.0006	0.5408	
rem life(col)	6.9712E+03	6.8455E+03	0.0007	k(col/abs/tk ln)	
0.640032	0.0006	0.640066	0.0005		
rem life(abs)	6.9345E+03	6.8455E+03	0.0007	life(col/abs/tl)	
6.8468E+03	0.0006	6.8510E+03	0.0005		
source points generated	5195				

estimator	cycle	830	ave of	780 cycles	combination
simple average	combined average		corr		
k(collision)	0.633649	0.639903	0.0006	k(col/abs)	
0.639997	0.0006	0.640017	0.0006	0.8399	
k(absorption)	0.622738	0.640091	0.0006	k(abs/tk ln)	
0.640080	0.0006	0.640085	0.0005	0.4225	
k(trk length)	0.638373	0.640068	0.0008	k(tk ln/col)	
0.639986	0.0006	0.639939	0.0006	0.5407	
rem life(col)	6.9095E+03	6.8456E+03	0.0007	k(col/abs/tk ln)	
0.640021	0.0006	0.640050	0.0005		
rem life(abs)	6.9210E+03	6.8456E+03	0.0007	life(col/abs/tl)	
6.8469E+03	0.0006	6.8510E+03	0.0005		
source points generated	4776				

estimator	cycle	831	ave of	781 cycles	combination
simple average	combined average		corr		
k(collision)	0.620938	0.639879	0.0006	k(col/abs)	
0.639974	0.0006	0.639995	0.0006	0.8404	
k(absorption)	0.623587	0.640070	0.0006	k(abs/tk ln)	
0.640066	0.0006	0.640068	0.0005	0.4223	
k(trk length)	0.635999	0.640063	0.0008	k(tk ln/col)	
0.639971	0.0006	0.639919	0.0006	0.5403	
rem life(col)	6.7099E+03	6.8454E+03	0.0007	k(col/abs/tk ln)	
0.640004	0.0006	0.640032	0.0005		
rem life(abs)	6.7214E+03	6.8454E+03	0.0007	life(col/abs/tl)	
6.8468E+03	0.0006	6.8511E+03	0.0005		
source points generated	4949				

estimator	cycle	832	ave of	782 cycles	combination
simple average	combined average		corr		
k(collision)	0.650172	0.639892	0.0006	k(col/abs)	
0.639988	0.0006	0.640009	0.0006	0.8406	

k(absorption)	0.651768	0.640084	0.0006	k(abs/tk ln)
0.640075	0.0006	0.640080	0.0005	0.4222
k(trk length)	0.642323	0.640066	0.0008	k(tk ln/col)
0.639979	0.0006	0.639930	0.0006	0.5401
rem life(col)	6.8720E+03	6.8455E+03	0.0007	k(col/abs/tk ln)
0.640014	0.0006	0.640044	0.0005	
rem life(abs)	6.8776E+03	6.8454E+03	0.0007	life(col/abs/tl)
6.8469E+03	0.0006	6.8512E+03	0.0005	
source points generated	5228			

estimator	cycle	833	ave of	783 cycles	combination
simple average	combined average		corr		
k(collision)	0.642680	0.639895	0.0006	k(col/abs)	
0.639996	0.0006	0.640017	0.0006	0.8405	
k(absorption)	0.648872	0.640096	0.0006	k(abs/tk ln)	
0.640084	0.0006	0.640090	0.0005	0.4224	
k(trk length)	0.644867	0.640072	0.0008	k(tk ln/col)	
0.639984	0.0006	0.639934	0.0006	0.5402	
rem life(col)	6.9737E+03	6.8456E+03	0.0007	k(col/abs/tk ln)	
0.640021	0.0006	0.640053	0.0005		
rem life(abs)	6.9666E+03	6.8456E+03	0.0007	life(col/abs/tl)	
6.8470E+03	0.0006	6.8512E+03	0.0005		
source points generated	4937				

estimator	cycle	834	ave of	784 cycles	combination
simple average	combined average		corr		
k(collision)	0.655383	0.639915	0.0006	k(col/abs)	
0.640009	0.0006	0.640030	0.0006	0.8401	
k(absorption)	0.645001	0.640102	0.0006	k(abs/tk ln)	
0.640100	0.0006	0.640101	0.0005	0.4226	
k(trk length)	0.660528	0.640098	0.0008	k(tk ln/col)	
0.640007	0.0006	0.639955	0.0006	0.5414	
rem life(col)	6.9031E+03	6.8457E+03	0.0007	k(col/abs/tk ln)	
0.640039	0.0006	0.640067	0.0005		
rem life(abs)	6.9606E+03	6.8457E+03	0.0007	life(col/abs/tl)	
6.8471E+03	0.0006	6.8512E+03	0.0005		
source points generated	5151				

estimator	cycle	835	ave of	785 cycles	combination
simple average	combined average		corr		
k(collision)	0.634971	0.639909	0.0006	k(col/abs)	
0.640002	0.0006	0.640022	0.0006	0.8402	
k(absorption)	0.634209	0.640094	0.0006	k(abs/tk ln)	
0.640096	0.0006	0.640095	0.0005	0.4225	
k(trk length)	0.639806	0.640098	0.0008	k(tk ln/col)	
0.640003	0.0006	0.639950	0.0006	0.5414	
rem life(col)	6.6569E+03	6.8455E+03	0.0007	k(col/abs/tk ln)	
0.640034	0.0006	0.640061	0.0005		
rem life(abs)	6.6349E+03	6.8455E+03	0.0007	life(col/abs/tl)	
6.8469E+03	0.0006	6.8511E+03	0.0005		
source points generated	4889				

estimator	cycle	836	ave of	786 cycles	combination
simple average	combined average		corr		

k(collision)	0.631624	0.639898	0.0006	k(col/abs)
0.639996	0.0006	0.640018	0.0006	0.8400
k(absorption)	0.638701	0.640093	0.0006	k(abs/tk ln)
0.640099	0.0006	0.640096	0.0005	0.4224
k(trk length)	0.645575	0.640105	0.0008	k(tk ln/col)
0.640002	0.0006	0.639943	0.0006	0.5407
rem life(col)	6.9487E+03	6.8456E+03	0.0007	k(col/abs/tk ln)
0.640032	0.0006	0.640059	0.0005	
rem life(abs)	6.9197E+03	6.8456E+03	0.0007	life(col/abs/tl)
6.8470E+03	0.0006	6.8513E+03	0.0005	
source points generated	5015			

estimator	cycle	837	ave of	787 cycles	combination
simple average	combined average		corr		
k(collision)	0.636146	0.639894	0.0006	k(col/abs)	
0.639993	0.0006	0.640016	0.0006	0.8399	
k(absorption)	0.640563	0.640093	0.0006	k(abs/tk ln)	
0.640094	0.0006	0.640093	0.0005	0.4223	
k(trk length)	0.631332	0.640094	0.0008	k(tk ln/col)	
0.639994	0.0006	0.639937	0.0006	0.5408	
rem life(col)	6.5867E+03	6.8453E+03	0.0007	k(col/abs/tk ln)	
0.640027	0.0006	0.640056	0.0005		
rem life(abs)	6.5690E+03	6.8452E+03	0.0007	life(col/abs/tl)	
6.8467E+03	0.0006	6.8512E+03	0.0005		
source points generated	5061				

estimator	cycle	838	ave of	788 cycles	combination
simple average	combined average		corr		
k(collision)	0.648077	0.639904	0.0006	k(col/abs)	
0.640005	0.0006	0.640027	0.0006	0.8400	
k(absorption)	0.649715	0.640105	0.0006	k(abs/tk ln)	
0.640116	0.0006	0.640111	0.0005	0.4233	
k(trk length)	0.665834	0.640126	0.0008	k(tk ln/col)	
0.640015	0.0006	0.639952	0.0006	0.5412	
rem life(col)	6.8452E+03	6.8453E+03	0.0007	k(col/abs/tk ln)	
0.640045	0.0006	0.640072	0.0005		
rem life(abs)	6.8344E+03	6.8452E+03	0.0007	life(col/abs/tl)	
6.8467E+03	0.0006	6.8511E+03	0.0005		
source points generated	5104				

estimator	cycle	839	ave of	789 cycles	combination
simple average	combined average		corr		
k(collision)	0.646191	0.639912	0.0006	k(col/abs)	
0.640012	0.0006	0.640035	0.0006	0.8401	
k(absorption)	0.645928	0.640113	0.0006	k(abs/tk ln)	
0.640124	0.0006	0.640118	0.0005	0.4235	
k(trk length)	0.647144	0.640135	0.0008	k(tk ln/col)	
0.640024	0.0006	0.639960	0.0006	0.5414	
rem life(col)	6.8345E+03	6.8453E+03	0.0007	k(col/abs/tk ln)	
0.640053	0.0006	0.640080	0.0005		
rem life(abs)	6.8099E+03	6.8452E+03	0.0007	life(col/abs/tl)	
6.8466E+03	0.0006	6.8510E+03	0.0005		
source points generated	4962				

estimator	cycle	840	ave of	790 cycles	combination
simple average	combined average		corr		
k(collision)	0.645104		0.639919	0.0006	k(col/abs)
0.640019 0.0006	0.640042	0.0006	0.8401		
k(absorption)	0.645550		0.640120	0.0006	k(abs/tk ln)
0.640140 0.0006	0.640129	0.0005	0.4238		
k(trk length)	0.659438		0.640160	0.0008	k(tk ln/col)
0.640039 0.0006	0.639970	0.0006	0.5415		
rem life(col)	6.7281E+03		6.8451E+03	0.0007	k(col/abs/tk ln)
0.640066 0.0006	0.640090	0.0005			
rem life(abs)	6.7054E+03		6.8450E+03	0.0007	life(col/abs/tl)
6.8465E+03 0.0006	6.8511E+03	0.0005			
source points generated 5020					

estimator	cycle	841	ave of	791 cycles	combination
simple average	combined average		corr		
k(collision)	0.643523		0.639923	0.0006	k(col/abs)
0.640027 0.0006	0.640050	0.0006	0.8401		
k(absorption)	0.648631		0.640130	0.0006	k(abs/tk ln)
0.640135 0.0006	0.640133	0.0005	0.4221		
k(trk length)	0.623612		0.640139	0.0008	k(tk ln/col)
0.640031 0.0006	0.639969	0.0006	0.5405		
rem life(col)	7.0047E+03		6.8453E+03	0.0007	k(col/abs/tk ln)
0.640064 0.0006	0.640093	0.0005			
rem life(abs)	7.0222E+03		6.8452E+03	0.0007	life(col/abs/tl)
6.8467E+03 0.0006	6.8512E+03	0.0005			
source points generated 4948					

estimator	cycle	842	ave of	792 cycles	combination
simple average	combined average		corr		
k(collision)	0.640694		0.639924	0.0006	k(col/abs)
0.640030 0.0006	0.640053	0.0006	0.8400		
k(absorption)	0.643849		0.640135	0.0006	k(abs/tk ln)
0.640137 0.0006	0.640136	0.0005	0.4220		
k(trk length)	0.639879		0.640139	0.0008	k(tk ln/col)
0.640031 0.0006	0.639970	0.0006	0.5405		
rem life(col)	6.9599E+03		6.8455E+03	0.0007	k(col/abs/tk ln)
0.640066 0.0006	0.640096	0.0005			
rem life(abs)	6.9104E+03		6.8453E+03	0.0007	life(col/abs/tl)
6.8468E+03 0.0006	6.8513E+03	0.0005			
source points generated 4960					

estimator	cycle	843	ave of	793 cycles	combination
simple average	combined average		corr		
k(collision)	0.629385		0.639911	0.0006	k(col/abs)
0.640019 0.0006	0.640044	0.0006	0.8401		
k(absorption)	0.633977		0.640127	0.0006	k(abs/tk ln)
0.640122 0.0006	0.640125	0.0005	0.4225		
k(trk length)	0.622151		0.640116	0.0008	k(tk ln/col)
0.640013 0.0006	0.639955	0.0006	0.5412		
rem life(col)	6.8595E+03		6.8455E+03	0.0007	k(col/abs/tk ln)
0.640051 0.0006	0.640084	0.0005			
rem life(abs)	6.8627E+03		6.8453E+03	0.0007	life(col/abs/tl)
6.8469E+03 0.0006	6.8514E+03	0.0005			

source points generated 4926

estimator	cycle	844	ave of	794 cycles	combination
simple average	combined average		corr		
k(collision)	0.645404		0.639918	0.0006	k(col/abs)
0.640027 0.0006	0.640051	0.0006	0.8401		
k(absorption)	0.646706		0.640136	0.0006	k(abs/tk ln)
0.640122 0.0006	0.640129	0.0005	0.4220		
k(trk length)	0.634764		0.640109	0.0008	k(tk ln/col)
0.640013 0.0006	0.639959	0.0006	0.5408		
rem life(col)	6.8769E+03		6.8455E+03	0.0007	k(col/abs/tk ln)
0.640054 0.0006	0.640089	0.0005			
rem life(abs)	6.8499E+03		6.8453E+03	0.0007	life(col/abs/tl)
6.8469E+03 0.0006	6.8514E+03	0.0005			

source points generated 5127

estimator	cycle	845	ave of	795 cycles	combination
simple average	combined average		corr		
k(collision)	0.636120		0.639913	0.0006	k(col/abs)
0.640023 0.0006	0.640048	0.0006	0.8401		
k(absorption)	0.638166		0.640133	0.0006	k(abs/tk ln)
0.640121 0.0006	0.640127	0.0005	0.4220		
k(trk length)	0.639567		0.640108	0.0008	k(tk ln/col)
0.640011 0.0006	0.639955	0.0006	0.5408		
rem life(col)	6.8023E+03		6.8455E+03	0.0007	k(col/abs/tk ln)
0.640052 0.0006	0.640087	0.0005			
rem life(abs)	6.7776E+03		6.8452E+03	0.0007	life(col/abs/tl)
6.8468E+03 0.0006	6.8514E+03	0.0005			

source points generated 4972

estimator	cycle	846	ave of	796 cycles	combination
simple average	combined average		corr		
k(collision)	0.643866		0.639918	0.0006	k(col/abs)
0.640022 0.0006	0.640045	0.0006	0.8396		
k(absorption)	0.634005		0.640126	0.0006	k(abs/tk ln)
0.640131 0.0006	0.640128	0.0005	0.4201		
k(trk length)	0.662077		0.640136	0.0008	k(tk ln/col)
0.640027 0.0006	0.639964	0.0006	0.5407		
rem life(col)	6.9074E+03		6.8455E+03	0.0007	k(col/abs/tk ln)
0.640060 0.0006	0.640089	0.0005			
rem life(abs)	6.9034E+03		6.8453E+03	0.0007	life(col/abs/tl)
6.8469E+03 0.0006	6.8515E+03	0.0005			

source points generated 5089

estimator	cycle	847	ave of	797 cycles	combination
simple average	combined average		corr		
k(collision)	0.638386		0.639916	0.0006	k(col/abs)
0.640009 0.0006	0.640029	0.0006	0.8383		
k(absorption)	0.621904		0.640103	0.0006	k(abs/tk ln)
0.640122 0.0006	0.640112	0.0005	0.4186		
k(trk length)	0.644372		0.640141	0.0008	k(tk ln/col)
0.640029 0.0006	0.639964	0.0006	0.5406		
rem life(col)	7.1205E+03		6.8459E+03	0.0007	k(col/abs/tk ln)
0.640053 0.0006	0.640075	0.0005			

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rem life(abs)      7.1251E+03      6.8456E+03 0.0007      life(col/abs/tl)
6.8472E+03 0.0006      6.8515E+03 0.0005
source points generated      4943

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estimator      cycle      848      ave of      798 cycles      combination
simple average      combined average      corr
k(collision)      0.646413      0.639924 0.0006      k(col/abs)
0.640020 0.0006      0.640040 0.0006      0.8383
k(absorption)      0.651290      0.640117 0.0006      k(abs/tk ln)
0.640138 0.0006      0.640127 0.0005      0.4194
k(trk length)      0.653712      0.640158 0.0008      k(tk ln/col)
0.640041 0.0006      0.639974 0.0006      0.5409
rem life(col)      6.7397E+03      6.8457E+03 0.0007      k(col/abs/tk ln)
0.640066 0.0006      0.640088 0.0005
rem life(abs)      6.7466E+03      6.8455E+03 0.0007      life(col/abs/tl)
6.8470E+03 0.0006      6.8514E+03 0.0005
source points generated      5050

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```

estimator      cycle      849      ave of      799 cycles      combination
simple average      combined average      corr
k(collision)      0.654662      0.639943 0.0006      k(col/abs)
0.640036 0.0006      0.640056 0.0006      0.8385
k(absorption)      0.651027      0.640130 0.0006      k(abs/tk ln)
0.640141 0.0006      0.640135 0.0005      0.4185
k(trk length)      0.634359      0.640151 0.0008      k(tk ln/col)
0.640047 0.0006      0.639987 0.0006      0.5395
rem life(col)      6.6562E+03      6.8455E+03 0.0007      k(col/abs/tk ln)
0.640075 0.0006      0.640099 0.0005
rem life(abs)      6.6556E+03      6.8453E+03 0.0007      life(col/abs/tl)
6.8468E+03 0.0006      6.8513E+03 0.0005
source points generated      5085

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```

estimator      cycle      850      ave of      800 cycles      combination
simple average      combined average      corr
k(collision)      0.641936      0.639945 0.0006      k(col/abs)
0.640037 0.0006      0.640057 0.0006      0.8385
k(absorption)      0.639462      0.640130 0.0006      k(abs/tk ln)
0.640138 0.0006      0.640134 0.0005      0.4185
k(trk length)      0.636125      0.640146 0.0008      k(tk ln/col)
0.640046 0.0006      0.639988 0.0006      0.5394
rem life(col)      6.8196E+03      6.8455E+03 0.0007      k(col/abs/tk ln)
0.640074 0.0005      0.640097 0.0005
rem life(abs)      6.8265E+03      6.8453E+03 0.0007      life(col/abs/tl)
6.8468E+03 0.0006      6.8513E+03 0.0005
source points generated      4896

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```

estimator      cycle      851      ave of      801 cycles      combination
simple average      combined average      corr
k(collision)      0.645411      0.639952 0.0006      k(col/abs)
0.640045 0.0006      0.640065 0.0006      0.8385
k(absorption)      0.647410      0.640139 0.0006      k(abs/tk ln)
0.640158 0.0006      0.640148 0.0005      0.4191
k(trk length)      0.664618      0.640177 0.0008      k(tk ln/col)
0.640064 0.0006      0.640000 0.0006      0.5394

```

rem life(col)	6.9999E+03	6.8457E+03	0.0007	k(col/abs/tk ln)
0.640089	0.0005	0.640110	0.0005	
rem life(abs)	6.9767E+03	6.8454E+03	0.0007	life(col/abs/tl)
6.8470E+03	0.0006	6.8514E+03	0.0005	
source points generated	5055			

estimator	cycle	852	ave of	802 cycles	combination
simple average	combined average		corr		
k(collision)	0.623477		0.639931	0.0006	k(col/abs)
0.640024	0.0006	0.640044	0.0006	0.8390	
k(absorption)	0.622985		0.640117	0.0006	k(abs/tk ln)
0.640146	0.0006	0.640132	0.0005	0.4185	
k(trk length)	0.639363		0.640176	0.0008	k(tk ln/col)
0.640053	0.0006	0.639984	0.0006	0.5387	
rem life(col)	7.0167E+03		6.8459E+03	0.0007	k(col/abs/tk ln)
0.640075	0.0005	0.640093	0.0005		
rem life(abs)	7.0183E+03		6.8456E+03	0.0007	life(col/abs/tl)
6.8472E+03	0.0006	6.8515E+03	0.0005		
source points generated	4808				

estimator	cycle	853	ave of	803 cycles	combination
simple average	combined average		corr		
k(collision)	0.647118		0.639940	0.0006	k(col/abs)
0.640032	0.0006	0.640052	0.0006	0.8391	
k(absorption)	0.645771		0.640124	0.0006	k(abs/tk ln)
0.640159	0.0006	0.640141	0.0005	0.4189	
k(trk length)	0.654844		0.640194	0.0008	k(tk ln/col)
0.640067	0.0006	0.639994	0.0006	0.5390	
rem life(col)	6.7554E+03		6.8458E+03	0.0007	k(col/abs/tk ln)
0.640086	0.0005	0.640103	0.0005		
rem life(abs)	6.7561E+03		6.8455E+03	0.0007	life(col/abs/tl)
6.8470E+03	0.0006	6.8514E+03	0.0005		
source points generated	5156				

estimator	cycle	854	ave of	804 cycles	combination
simple average	combined average		corr		
k(collision)	0.642979		0.639944	0.0006	k(col/abs)
0.640026	0.0006	0.640043	0.0006	0.8378	
k(absorption)	0.627431		0.640108	0.0006	k(abs/tk ln)
0.640154	0.0006	0.640131	0.0005	0.4179	
k(trk length)	0.644781		0.640200	0.0008	k(tk ln/col)
0.640072	0.0006	0.639999	0.0006	0.5391	
rem life(col)	6.9670E+03		6.8459E+03	0.0007	k(col/abs/tk ln)
0.640084	0.0005	0.640095	0.0005		
rem life(abs)	6.9832E+03		6.8457E+03	0.0007	life(col/abs/tl)
6.8472E+03	0.0006	6.8514E+03	0.0005		
source points generated	4921				

estimator	cycle	855	ave of	805 cycles	combination
simple average	combined average		corr		
k(collision)	0.649055		0.639955	0.0006	k(col/abs)
0.640038	0.0006	0.640055	0.0006	0.8380	
k(absorption)	0.650332		0.640121	0.0006	k(abs/tk ln)
0.640170	0.0006	0.640145	0.0005	0.4187	

k(trk length)	0.655806	0.640219	0.0008	k(tk ln/col)
0.640087	0.0006	0.640012	0.0006	0.5396
rem life(col)	6.8984E+03	6.8460E+03	0.0007	k(col/abs/tk ln)
0.640099	0.0005	0.640109	0.0005	
rem life(abs)	6.8721E+03	6.8457E+03	0.0007	life(col/abs/tl)
6.8472E+03	0.0006	6.8514E+03	0.0005	
source points generated	5064			

estimator	cycle	856	ave of	806 cycles	combination
simple average	combined average		corr		
k(collision)	0.625732		0.639938	0.0006	k(col/abs)
0.640024	0.0006	0.640042	0.0006	0.8381	
k(absorption)	0.631318		0.640110	0.0006	k(abs/tk ln)
0.640137	0.0006	0.640123	0.0005	0.4193	
k(trk length)	0.595754		0.640164	0.0008	k(tk ln/col)
0.640051	0.0006	0.639985	0.0006	0.5409	
rem life(col)	6.8850E+03		6.8460E+03	0.0007	k(col/abs/tk ln)
0.640071	0.0005	0.640087	0.0005		
rem life(abs)	6.8479E+03		6.8457E+03	0.0007	life(col/abs/tl)
6.8472E+03	0.0006	6.8515E+03	0.0005		
source points generated	4840				

estimator	cycle	857	ave of	807 cycles	combination
simple average	combined average		corr		
k(collision)	0.633876		0.639930	0.0006	k(col/abs)
0.640018	0.0006	0.640036	0.0006	0.8381	
k(absorption)	0.636967		0.640106	0.0006	k(abs/tk ln)
0.640136	0.0006	0.640120	0.0005	0.4193	
k(trk length)	0.640896		0.640165	0.0008	k(tk ln/col)
0.640047	0.0006	0.639979	0.0006	0.5408	
rem life(col)	6.8739E+03		6.8461E+03	0.0007	k(col/abs/tk ln)
0.640067	0.0005	0.640083	0.0005		
rem life(abs)	6.8801E+03		6.8458E+03	0.0007	life(col/abs/tl)
6.8473E+03	0.0006	6.8515E+03	0.0005		
source points generated	5076				

estimator	cycle	858	ave of	808 cycles	combination
simple average	combined average		corr		
k(collision)	0.629480		0.639917	0.0006	k(col/abs)
0.640006	0.0006	0.640025	0.0006	0.8383	
k(absorption)	0.631004		0.640095	0.0006	k(abs/tk ln)
0.640123	0.0006	0.640109	0.0005	0.4197	
k(trk length)	0.629346		0.640151	0.0008	k(tk ln/col)
0.640034	0.0006	0.639966	0.0006	0.5412	
rem life(col)	6.6675E+03		6.8458E+03	0.0007	k(col/abs/tk ln)
0.640055	0.0005	0.640071	0.0005		
rem life(abs)	6.7007E+03		6.8456E+03	0.0007	life(col/abs/tl)
6.8471E+03	0.0006	6.8515E+03	0.0005		
source points generated	4965				

estimator	cycle	859	ave of	809 cycles	combination
simple average	combined average		corr		
k(collision)	0.642894		0.639921	0.0006	k(col/abs)
0.640006	0.0006	0.640024	0.0006	0.8381	

k(absorption)	0.636788	0.640091	0.0006	k(abs/tk ln)
0.640118	0.0006	0.640104	0.0005	0.4198
k(trk length)	0.634447	0.640144	0.0008	k(tk ln/col)
0.640033	0.0006	0.639967	0.0006	0.5410
rem life(col)	6.7365E+03	6.8457E+03	0.0007	k(col/abs/tk ln)
0.640052	0.0005	0.640068	0.0005	
rem life(abs)	6.7478E+03	6.8455E+03	0.0007	life(col/abs/tl)
6.8470E+03	0.0006	6.8515E+03	0.0005	
source points generated	5142			

estimator	cycle	860	ave of	810 cycles	combination
simple average	combined average		corr		
k(collision)	0.634202	0.639914	0.0006	k(col/abs)	
0.639999	0.0006	0.640017	0.0006	0.8381	
k(absorption)	0.635136	0.640085	0.0006	k(abs/tk ln)	
0.640112	0.0006	0.640098	0.0005	0.4199	
k(trk length)	0.635648	0.640139	0.0008	k(tk ln/col)	
0.640026	0.0006	0.639961	0.0006	0.5410	
rem life(col)	6.9479E+03	6.8458E+03	0.0007	k(col/abs/tk ln)	
0.640046	0.0005	0.640062	0.0005		
rem life(abs)	6.9401E+03	6.8456E+03	0.0007	life(col/abs/tl)	
6.8471E+03	0.0006	6.8516E+03	0.0005		
source points generated	4926				

estimator	cycle	861	ave of	811 cycles	combination
simple average	combined average		corr		
k(collision)	0.652658	0.639930	0.0006	k(col/abs)	
0.640014	0.0006	0.640031	0.0006	0.8383	
k(absorption)	0.650397	0.640098	0.0006	k(abs/tk ln)	
0.640123	0.0006	0.640110	0.0005	0.4202	
k(trk length)	0.647558	0.640148	0.0008	k(tk ln/col)	
0.640039	0.0006	0.639975	0.0006	0.5412	
rem life(col)	6.9170E+03	6.8459E+03	0.0007	k(col/abs/tk ln)	
0.640058	0.0005	0.640075	0.0005		
rem life(abs)	6.9274E+03	6.8457E+03	0.0007	life(col/abs/tl)	
6.8472E+03	0.0006	6.8514E+03	0.0005		
source points generated	5184				

estimator	cycle	862	ave of	812 cycles	combination
simple average	combined average		corr		
k(collision)	0.647473	0.639939	0.0006	k(col/abs)	
0.640018	0.0006	0.640035	0.0006	0.8381	
k(absorption)	0.639867	0.640097	0.0006	k(abs/tk ln)	
0.640130	0.0006	0.640113	0.0005	0.4200	
k(trk length)	0.651920	0.640162	0.0008	k(tk ln/col)	
0.640051	0.0006	0.639986	0.0006	0.5416	
rem life(col)	6.7610E+03	6.8458E+03	0.0007	k(col/abs/tk ln)	
0.640066	0.0005	0.640080	0.0005		
rem life(abs)	6.7490E+03	6.8456E+03	0.0007	life(col/abs/tl)	
6.8471E+03	0.0006	6.8514E+03	0.0005		
source points generated	4949				

estimator	cycle	863	ave of	813 cycles	combination
simple average	combined average		corr		

k(collision)	0.637404	0.639936	0.0006	k(col/abs)
0.640011	0.0006	0.640027	0.0005	0.8379
k(absorption)	0.631488	0.640087	0.0006	k(abs/tk ln)
0.640113	0.0006	0.640099	0.0005	0.4208
k(trk length)	0.621294	0.640139	0.0008	k(tk ln/col)
0.640037	0.0006	0.639978	0.0006	0.5413
rem life(col)	6.9462E+03	6.8459E+03	0.0007	k(col/abs/tk ln)
0.640054	0.0005	0.640067	0.0005	
rem life(abs)	6.9415E+03	6.8457E+03	0.0007	life(col/abs/tl)
6.8472E+03	0.0006	6.8514E+03	0.0005	
source points generated	4944			

estimator	cycle	864	ave of	814 cycles	combination
simple average	combined average		corr		
k(collision)	0.647048	0.639945	0.0006	k(col/abs)	
0.640025	0.0005	0.640041	0.0005	0.8378	
k(absorption)	0.655464	0.640106	0.0006	k(abs/tk ln)	
0.640123	0.0006	0.640114	0.0005	0.4203	
k(trk length)	0.640915	0.640140	0.0008	k(tk ln/col)	
0.640042	0.0006	0.639985	0.0006	0.5412	
rem life(col)	6.8709E+03	6.8460E+03	0.0007	k(col/abs/tk ln)	
0.640063	0.0005	0.640080	0.0005		
rem life(abs)	6.8356E+03	6.8457E+03	0.0007	life(col/abs/tl)	
6.8472E+03	0.0006	6.8515E+03	0.0005		
source points generated	5108				

estimator	cycle	865	ave of	815 cycles	combination
simple average	combined average		corr		
k(collision)	0.650784	0.639958	0.0006	k(col/abs)	
0.640035	0.0005	0.640051	0.0005	0.8378	
k(absorption)	0.645661	0.640112	0.0006	k(abs/tk ln)	
0.640131	0.0006	0.640122	0.0005	0.4205	
k(trk length)	0.648503	0.640150	0.0008	k(tk ln/col)	
0.640054	0.0006	0.639998	0.0006	0.5415	
rem life(col)	6.6382E+03	6.8457E+03	0.0007	k(col/abs/tk ln)	
0.640074	0.0005	0.640089	0.0005		
rem life(abs)	6.6836E+03	6.8455E+03	0.0007	life(col/abs/tl)	
6.8470E+03	0.0006	6.8513E+03	0.0005		
source points generated	4996				

estimator	cycle	866	ave of	816 cycles	combination
simple average	combined average		corr		
k(collision)	0.624329	0.639939	0.0006	k(col/abs)	
0.640016	0.0005	0.640031	0.0005	0.8382	
k(absorption)	0.624083	0.640093	0.0006	k(abs/tk ln)	
0.640116	0.0006	0.640104	0.0005	0.4210	
k(trk length)	0.630840	0.640139	0.0008	k(tk ln/col)	
0.640039	0.0006	0.639981	0.0006	0.5418	
rem life(col)	7.0575E+03	6.8460E+03	0.0007	k(col/abs/tk ln)	
0.640057	0.0005	0.640071	0.0005		
rem life(abs)	7.0523E+03	6.8457E+03	0.0007	life(col/abs/tl)	
6.8472E+03	0.0006	6.8516E+03	0.0005		
source points generated	4818				

estimator	cycle	867	ave of	817 cycles	combination
simple average	combined average		corr		
k(collision)	0.643979		0.639944	0.0006	k(col/abs)
0.640017 0.0005	0.640032	0.0005	0.8380		
k(absorption)	0.637933		0.640090	0.0006	k(abs/tk ln)
0.640116 0.0006	0.640103	0.0005	0.4210		
k(trk length)	0.642241		0.640142	0.0008	k(tk ln/col)
0.640043 0.0006	0.639985	0.0006	0.5419		
rem life(col)	7.0415E+03		6.8462E+03	0.0007	k(col/abs/tk ln)
0.640058 0.0005	0.640071	0.0005			
rem life(abs)	7.0599E+03		6.8460E+03	0.0007	life(col/abs/tl)
6.8475E+03 0.0006	6.8517E+03	0.0005			
source points generated 5168					

estimator	cycle	868	ave of	818 cycles	combination
simple average	combined average		corr		
k(collision)	0.629119		0.639930	0.0006	k(col/abs)
0.640004 0.0005	0.640019	0.0005	0.8382		
k(absorption)	0.629354		0.640077	0.0006	k(abs/tk ln)
0.640095 0.0006	0.640086	0.0005	0.4221		
k(trk length)	0.616414		0.640113	0.0008	k(tk ln/col)
0.640021 0.0006	0.639968	0.0006	0.5427		
rem life(col)	7.0359E+03		6.8465E+03	0.0007	k(col/abs/tk ln)
0.640040 0.0005	0.640055	0.0005			
rem life(abs)	7.0153E+03		6.8462E+03	0.0007	life(col/abs/tl)
6.8477E+03 0.0006	6.8519E+03	0.0005			
source points generated 4877					

estimator	cycle	869	ave of	819 cycles	combination
simple average	combined average		corr		
k(collision)	0.624183		0.639911	0.0006	k(col/abs)
0.639985 0.0005	0.640000	0.0005	0.8386		
k(absorption)	0.625262		0.640059	0.0006	k(abs/tk ln)
0.640085 0.0006	0.640072	0.0005	0.4217		
k(trk length)	0.639294		0.640112	0.0008	k(tk ln/col)
0.640011 0.0006	0.639953	0.0006	0.5420		
rem life(col)	6.9483E+03		6.8466E+03	0.0007	k(col/abs/tk ln)
0.640027 0.0005	0.640040	0.0005			
rem life(abs)	6.9622E+03		6.8464E+03	0.0007	life(col/abs/tl)
6.8478E+03 0.0006	6.8521E+03	0.0005			
source points generated 4926					

estimator	cycle	870	ave of	820 cycles	combination
simple average	combined average		corr		
k(collision)	0.638807		0.639910	0.0006	k(col/abs)
0.639985 0.0005	0.640000	0.0005	0.8386		
k(absorption)	0.641170		0.640060	0.0006	k(abs/tk ln)
0.640071 0.0006	0.640066	0.0005	0.4207		
k(trk length)	0.616480		0.640083	0.0008	k(tk ln/col)
0.639996 0.0006	0.639946	0.0006	0.5413		
rem life(col)	6.9165E+03		6.8467E+03	0.0007	k(col/abs/tk ln)
0.640018 0.0005	0.640035	0.0005			
rem life(abs)	6.9049E+03		6.8464E+03	0.0007	life(col/abs/tl)
6.8479E+03 0.0006	6.8521E+03	0.0005			

source points generated 5138

estimator	cycle	871	ave of	821 cycles	combination
simple average	combined average			corr	
k(collision)	0.632127		0.639900	0.0006	k(col/abs)
0.639975 0.0005	0.639991	0.0005	0.8387		
k(absorption)	0.631992		0.640050	0.0006	k(abs/tk ln)
0.640049 0.0006	0.640050	0.0005	0.4215		
k(trk length)	0.611705		0.640048	0.0008	k(tk ln/col)
0.639974 0.0006	0.639931	0.0006	0.5416		
rem life(col)	6.7651E+03		6.8466E+03	0.0007	k(col/abs/tk ln)
0.640000 0.0005	0.640020	0.0005			
rem life(abs)	6.7659E+03		6.8463E+03	0.0007	life(col/abs/tl)
6.8478E+03 0.0006	6.8521E+03	0.0005			

source points generated 4975

estimator	cycle	872	ave of	822 cycles	combination
simple average	combined average			corr	
k(collision)	0.627269		0.639885	0.0006	k(col/abs)
0.639959 0.0005	0.639974	0.0005	0.8390		
k(absorption)	0.626281		0.640034	0.0006	k(abs/tk ln)
0.640044 0.0006	0.640039	0.0005	0.4203		
k(trk length)	0.645786		0.640055	0.0008	k(tk ln/col)
0.639970 0.0006	0.639920	0.0006	0.5405		
rem life(col)	7.1591E+03		6.8469E+03	0.0007	k(col/abs/tk ln)
0.639991 0.0005	0.640008	0.0005			
rem life(abs)	7.1460E+03		6.8467E+03	0.0007	life(col/abs/tl)
6.8481E+03 0.0006	6.8522E+03	0.0005			

source points generated 4927

estimator	cycle	873	ave of	823 cycles	combination
simple average	combined average			corr	
k(collision)	0.623454		0.639865	0.0006	k(col/abs)
0.639939 0.0005	0.639954	0.0005	0.8395		
k(absorption)	0.622680		0.640013	0.0006	k(abs/tk ln)
0.640031 0.0006	0.640022	0.0005	0.4202		
k(trk length)	0.635989		0.640050	0.0008	k(tk ln/col)
0.639958 0.0006	0.639904	0.0006	0.5402		
rem life(col)	6.7332E+03		6.8468E+03	0.0007	k(col/abs/tk ln)
0.639976 0.0005	0.639991	0.0005			
rem life(abs)	6.7200E+03		6.8465E+03	0.0007	life(col/abs/tl)
6.8480E+03 0.0006	6.8523E+03	0.0005			

source points generated 4974

estimator	cycle	874	ave of	824 cycles	combination
simple average	combined average			corr	
k(collision)	0.641861		0.639867	0.0006	k(col/abs)
0.639945 0.0005	0.639960	0.0005	0.8394		
k(absorption)	0.647412		0.640022	0.0006	k(abs/tk ln)
0.640029 0.0006	0.640025	0.0005	0.4191		
k(trk length)	0.627953		0.640036	0.0008	k(tk ln/col)
0.639951 0.0006	0.639903	0.0006	0.5398		
rem life(col)	6.7669E+03		6.8467E+03	0.0007	k(col/abs/tk ln)
0.639975 0.0005	0.639994	0.0005			

rem life(abs)	6.7538E+03	6.8464E+03	0.0007	life(col/abs/tl)
6.8479E+03	0.0006	6.8522E+03	0.0005	
source points generated	5174			

estimator	cycle	875	ave of	825 cycles	combination
simple average	combined average		corr		
k(collision)	0.635493		0.639862	0.0006	k(col/abs)
0.639942	0.0005	0.639958	0.0005	0.8393	
k(absorption)	0.639859		0.640021	0.0006	k(abs/tk ln)
0.640025	0.0006	0.640023	0.0005	0.4191	
k(trk length)	0.634341		0.640029	0.0008	k(tk ln/col)
0.639945	0.0006	0.639897	0.0006	0.5399	
rem life(col)	6.7568E+03		6.8466E+03	0.0007	k(col/abs/tk ln)
0.639971	0.0005	0.639991	0.0005		
rem life(abs)	6.7436E+03		6.8463E+03	0.0007	life(col/abs/tl)
6.8479E+03	0.0006	6.8523E+03	0.0005		
source points generated	4957				

estimator	cycle	876	ave of	826 cycles	combination
simple average	combined average		corr		
k(collision)	0.654602		0.639880	0.0006	k(col/abs)
0.639952	0.0005	0.639967	0.0005	0.8388	
k(absorption)	0.642904		0.640025	0.0006	k(abs/tk ln)
0.640036	0.0006	0.640030	0.0005	0.4191	
k(trk length)	0.655353		0.640047	0.0008	k(tk ln/col)
0.639964	0.0006	0.639915	0.0006	0.5407	
rem life(col)	6.6721E+03		6.8464E+03	0.0007	k(col/abs/tk ln)
0.639984	0.0005	0.640001	0.0005		
rem life(abs)	6.6891E+03		6.8461E+03	0.0007	life(col/abs/tl)
6.8477E+03	0.0006	6.8524E+03	0.0005		
source points generated	5189				

estimator	cycle	877	ave of	827 cycles	combination
simple average	combined average		corr		
k(collision)	0.637504		0.639877	0.0006	k(col/abs)
0.639954	0.0005	0.639969	0.0005	0.8386	
k(absorption)	0.644277		0.640030	0.0006	k(abs/tk ln)
0.640044	0.0006	0.640037	0.0005	0.4193	
k(trk length)	0.649303		0.640058	0.0008	k(tk ln/col)
0.639968	0.0006	0.639915	0.0006	0.5404	
rem life(col)	6.9254E+03		6.8465E+03	0.0007	k(col/abs/tk ln)
0.639988	0.0005	0.640006	0.0005		
rem life(abs)	6.9069E+03		6.8462E+03	0.0007	life(col/abs/tl)
6.8478E+03	0.0006	6.8524E+03	0.0005		
source points generated	4846				

estimator	cycle	878	ave of	828 cycles	combination
simple average	combined average		corr		
k(collision)	0.631968		0.639868	0.0006	k(col/abs)
0.639945	0.0005	0.639961	0.0005	0.8386	
k(absorption)	0.633730		0.640022	0.0006	k(abs/tk ln)
0.640032	0.0006	0.640027	0.0005	0.4197	
k(trk length)	0.625670		0.640041	0.0008	k(tk ln/col)
0.639954	0.0006	0.639904	0.0006	0.5408	

rem life(col)	6.8822E+03	6.8465E+03	0.0007	k(col/abs/tk ln)
0.639977	0.0005	0.639996	0.0005	
rem life(abs)	6.9136E+03	6.8463E+03	0.0007	life(col/abs/tl)
6.8478E+03	0.0006	6.8523E+03	0.0005	
source points generated	4926			

estimator	cycle	879	ave of	829 cycles	combination
simple average			combined average	corr	
k(collision)	0.639848		0.639868	0.0006	k(col/abs)
0.639950	0.0005		0.639967	0.0005	0.8382
k(absorption)	0.649185		0.640033	0.0006	k(abs/tk ln)
0.640047	0.0006		0.640040	0.0005	0.4204
k(trk length)	0.655515		0.640060	0.0008	k(tk ln/col)
0.639964	0.0006		0.639907	0.0006	0.5404
rem life(col)	6.6954E+03		6.8463E+03	0.0007	k(col/abs/tk ln)
0.639987	0.0005		0.640005	0.0005	
rem life(abs)	6.6623E+03		6.8460E+03	0.0007	life(col/abs/tl)
6.8477E+03	0.0006		6.8523E+03	0.0005	
source points generated	5106				

estimator	cycle	880	ave of	830 cycles	combination
simple average			combined average	corr	
k(collision)	0.623533		0.639848	0.0006	k(col/abs)
0.639932	0.0005		0.639949	0.0005	0.8387
k(absorption)	0.625131		0.640016	0.0006	k(abs/tk ln)
0.640052	0.0006		0.640033	0.0005	0.4163
k(trk length)	0.663264		0.640088	0.0008	k(tk ln/col)
0.639968	0.0006		0.639898	0.0006	0.5357
rem life(col)	7.1025E+03		6.8467E+03	0.0007	k(col/abs/tk ln)
0.639984	0.0005		0.639997	0.0005	
rem life(abs)	7.1017E+03		6.8463E+03	0.0007	life(col/abs/tl)
6.8479E+03	0.0006		6.8525E+03	0.0005	
source points generated	4880				

estimator	cycle	881	ave of	831 cycles	combination
simple average			combined average	corr	
k(collision)	0.646023		0.639855	0.0006	k(col/abs)
0.639934	0.0005		0.639950	0.0005	0.8383
k(absorption)	0.637723		0.640013	0.0006	k(abs/tk ln)
0.640036	0.0006		0.640024	0.0005	0.4161
k(trk length)	0.616839		0.640060	0.0008	k(tk ln/col)
0.639957	0.0006		0.639898	0.0006	0.5336
rem life(col)	6.8264E+03		6.8466E+03	0.0007	k(col/abs/tk ln)
0.639976	0.0005		0.639991	0.0005	
rem life(abs)	6.8605E+03		6.8464E+03	0.0007	life(col/abs/tl)
6.8479E+03	0.0006		6.8525E+03	0.0005	
source points generated	5185				

estimator	cycle	882	ave of	832 cycles	combination
simple average			combined average	corr	
k(collision)	0.662167		0.639882	0.0006	k(col/abs)
0.639959	0.0005		0.639975	0.0005	0.8391
k(absorption)	0.659371		0.640036	0.0006	k(abs/tk ln)
0.640062	0.0006		0.640048	0.0005	0.4182

k(trk length)	0.662877	0.640087	0.0008	k(tk ln/col)
0.639985	0.0006	0.639925	0.0006	0.5354
rem life(col)	6.8467E+03	6.8466E+03	0.0007	k(col/abs/tk ln)
0.640002	0.0005	0.640016	0.0005	
rem life(abs)	6.8507E+03	6.8464E+03	0.0007	life(col/abs/tl)
6.8479E+03	0.0006	6.8524E+03	0.0005	
source points generated	5149			

estimator	cycle	883	ave of	833 cycles	combination
simple average	combined average		corr		
k(collision)	0.635417		0.639877	0.0006	k(col/abs)
0.639958	0.0005	0.639975	0.0005	0.8388	
k(absorption)	0.642524		0.640039	0.0006	k(abs/tk ln)
0.640047	0.0006	0.640043	0.0005	0.4167	
k(trk length)	0.613274		0.640055	0.0008	k(tk ln/col)
0.639966	0.0006	0.639914	0.0006	0.5352	
rem life(col)	7.1540E+03		6.8470E+03	0.0007	k(col/abs/tk ln)
0.639990	0.0005	0.640010	0.0005		
rem life(abs)	7.1363E+03		6.8467E+03	0.0007	life(col/abs/tl)
6.8482E+03	0.0006	6.8524E+03	0.0005		
source points generated	4811				

estimator	cycle	884	ave of	834 cycles	combination
simple average	combined average		corr		
k(collision)	0.635930		0.639872	0.0006	k(col/abs)
0.639955	0.0005	0.639972	0.0005	0.8388	
k(absorption)	0.639195		0.640038	0.0006	k(abs/tk ln)
0.640040	0.0006	0.640039	0.0005	0.4166	
k(trk length)	0.629947		0.640043	0.0008	k(tk ln/col)
0.639957	0.0006	0.639908	0.0006	0.5353	
rem life(col)	6.9493E+03		6.8471E+03	0.0007	k(col/abs/tk ln)
0.639984	0.0005	0.640006	0.0005		
rem life(abs)	6.9235E+03		6.8468E+03	0.0007	life(col/abs/tl)
6.8483E+03	0.0006	6.8525E+03	0.0005		
source points generated	5023				

estimator	cycle	885	ave of	835 cycles	combination
simple average	combined average		corr		
k(collision)	0.637241		0.639869	0.0006	k(col/abs)
0.639950	0.0005	0.639968	0.0005	0.8388	
k(absorption)	0.635007		0.640032	0.0006	k(abs/tk ln)
0.640039	0.0006	0.640035	0.0005	0.4165	
k(trk length)	0.642781		0.640046	0.0008	k(tk ln/col)
0.639957	0.0006	0.639906	0.0006	0.5352	
rem life(col)	6.8158E+03		6.8471E+03	0.0007	k(col/abs/tk ln)
0.639982	0.0005	0.640002	0.0005		
rem life(abs)	6.8181E+03		6.8468E+03	0.0007	life(col/abs/tl)
6.8483E+03	0.0006	6.8525E+03	0.0005		
source points generated	5030				

estimator	cycle	886	ave of	836 cycles	combination
simple average	combined average		corr		
k(collision)	0.631313		0.639859	0.0006	k(col/abs)
0.639935	0.0005	0.639951	0.0005	0.8387	

k(absorption)	0.622972	0.640012	0.0006	k(abs/tk ln)
0.640021	0.0006	0.640016	0.0005	0.4174
k(trk length)	0.626780	0.640030	0.0008	k(tk ln/col)
0.639944	0.0006	0.639894	0.0006	0.5356
rem life(col)	7.1533E+03	6.8474E+03	0.0007	k(col/abs/tk ln)
0.639967	0.0005	0.639984	0.0005	
rem life(abs)	7.1608E+03	6.8472E+03	0.0007	life(col/abs/tl)
6.8486E+03	0.0006	6.8527E+03	0.0005	
source points generated	4993			

estimator	cycle	887	ave of	837 cycles	combination
simple average	combined average		corr		
k(collision)	0.649968	0.639871	0.0006	k(col/abs)	
0.639949	0.0005	0.639965	0.0005	0.8388	
k(absorption)	0.653702	0.640028	0.0006	k(abs/tk ln)	
0.640029	0.0006	0.640029	0.0005	0.4170	
k(trk length)	0.640535	0.640031	0.0008	k(tk ln/col)	
0.639951	0.0006	0.639904	0.0006	0.5353	
rem life(col)	6.7234E+03	6.8473E+03	0.0007	k(col/abs/tk ln)	
0.639976	0.0005	0.639996	0.0005		
rem life(abs)	6.7091E+03	6.8470E+03	0.0007	life(col/abs/tl)	
6.8484E+03	0.0006	6.8526E+03	0.0005		
source points generated	5168				

estimator	cycle	888	ave of	838 cycles	combination
simple average	combined average		corr		
k(collision)	0.637171	0.639867	0.0006	k(col/abs)	
0.639944	0.0005	0.639960	0.0005	0.8388	
k(absorption)	0.634433	0.640021	0.0006	k(abs/tk ln)	
0.640024	0.0006	0.640022	0.0005	0.4171	
k(trk length)	0.635933	0.640026	0.0008	k(tk ln/col)	
0.639947	0.0006	0.639901	0.0006	0.5354	
rem life(col)	7.0803E+03	6.8476E+03	0.0007	k(col/abs/tk ln)	
0.639972	0.0005	0.639991	0.0005		
rem life(abs)	7.0855E+03	6.8473E+03	0.0007	life(col/abs/tl)	
6.8487E+03	0.0006	6.8526E+03	0.0005		
source points generated	4903				

estimator	cycle	889	ave of	839 cycles	combination
simple average	combined average		corr		
k(collision)	0.620171	0.639844	0.0006	k(col/abs)	
0.639924	0.0005	0.639941	0.0005	0.8392	
k(absorption)	0.626130	0.640005	0.0006	k(abs/tk ln)	
0.640004	0.0006	0.640004	0.0005	0.4184	
k(trk length)	0.620622	0.640003	0.0008	k(tk ln/col)	
0.639923	0.0006	0.639877	0.0006	0.5367	
rem life(col)	6.7351E+03	6.8474E+03	0.0007	k(col/abs/tk ln)	
0.639950	0.0005	0.639972	0.0005		
rem life(abs)	6.7147E+03	6.8471E+03	0.0007	life(col/abs/tl)	
6.8485E+03	0.0006	6.8524E+03	0.0005		
source points generated	4836				

estimator	cycle	890	ave of	840 cycles	combination
simple average	combined average		corr		

k(collision)	0.632552	0.639835	0.0006	k(col/abs)
0.639921	0.0005	0.639939	0.0005	0.8388
k(absorption)	0.641661	0.640007	0.0006	k(abs/tk ln)
0.639994	0.0006	0.640001	0.0005	0.4178
k(trk length)	0.622660	0.639982	0.0008	k(tk ln/col)
0.639909	0.0006	0.639866	0.0006	0.5371
rem life(col)	7.0322E+03	6.8477E+03	0.0007	k(col/abs/tk ln)
0.639941	0.0005	0.639967	0.0005	
rem life(abs)	7.0353E+03	6.8473E+03	0.0007	life(col/abs/tl)
6.8487E+03	0.0006	6.8525E+03	0.0005	
source points generated	5064			

estimator	cycle	891	ave of	841 cycles	combination
simple average	combined average		corr		
k(collision)	0.641860	0.639838	0.0006	k(col/abs)	
0.639921	0.0005	0.639938	0.0005	0.8387	
k(absorption)	0.638400	0.640005	0.0006	k(abs/tk ln)	
0.639993	0.0006	0.639999	0.0005	0.4178	
k(trk length)	0.640042	0.639982	0.0008	k(tk ln/col)	
0.639910	0.0006	0.639868	0.0006	0.5371	
rem life(col)	6.7829E+03	6.8476E+03	0.0007	k(col/abs/tk ln)	
0.639942	0.0005	0.639967	0.0005		
rem life(abs)	6.7840E+03	6.8473E+03	0.0007	life(col/abs/tl)	
6.8486E+03	0.0006	6.8525E+03	0.0005		
source points generated	5058				

estimator	cycle	892	ave of	842 cycles	combination
simple average	combined average		corr		
k(collision)	0.648227	0.639848	0.0006	k(col/abs)	
0.639928	0.0005	0.639944	0.0005	0.8386	
k(absorption)	0.642398	0.640008	0.0006	k(abs/tk ln)	
0.639989	0.0006	0.639999	0.0005	0.4174	
k(trk length)	0.629608	0.639970	0.0008	k(tk ln/col)	
0.639909	0.0006	0.639873	0.0006	0.5360	
rem life(col)	7.0778E+03	6.8479E+03	0.0007	k(col/abs/tk ln)	
0.639942	0.0005	0.639968	0.0005		
rem life(abs)	7.0799E+03	6.8475E+03	0.0007	life(col/abs/tl)	
6.8489E+03	0.0006	6.8526E+03	0.0005		
source points generated	5052				

estimator	cycle	893	ave of	843 cycles	combination
simple average	combined average		corr		
k(collision)	0.629407	0.639835	0.0006	k(col/abs)	
0.639917	0.0005	0.639934	0.0005	0.8387	
k(absorption)	0.632875	0.639999	0.0006	k(abs/tk ln)	
0.639979	0.0006	0.639990	0.0005	0.4177	
k(trk length)	0.631350	0.639960	0.0008	k(tk ln/col)	
0.639897	0.0006	0.639861	0.0006	0.5363	
rem life(col)	6.8753E+03	6.8479E+03	0.0007	k(col/abs/tk ln)	
0.639931	0.0005	0.639958	0.0005		
rem life(abs)	6.8612E+03	6.8476E+03	0.0007	life(col/abs/tl)	
6.8489E+03	0.0006	6.8525E+03	0.0005		
source points generated	4835				

estimator	cycle	894	ave of	844 cycles	combination
simple average	combined average		corr		
k(collision)	0.638807		0.639834	0.0006	k(col/abs)
0.639909 0.0005	0.639924	0.0005	0.8381		
k(absorption)	0.627402		0.639984	0.0006	k(abs/tk ln)
0.639976 0.0006	0.639980	0.0005	0.4166		
k(trk length)	0.646860		0.639968	0.0008	k(tk ln/col)
0.639901 0.0006	0.639862	0.0006	0.5362		
rem life(col)	6.8901E+03		6.8479E+03	0.0007	k(col/abs/tk ln)
0.639929 0.0005	0.639951	0.0005			
rem life(abs)	6.8964E+03		6.8476E+03	0.0007	life(col/abs/tl)
6.8489E+03 0.0006	6.8525E+03	0.0005			
source points generated 5095					

estimator	cycle	895	ave of	845 cycles	combination
simple average	combined average		corr		
k(collision)	0.644262		0.639839	0.0006	k(col/abs)
0.639917 0.0005	0.639933	0.0005	0.8380		
k(absorption)	0.649566		0.639996	0.0006	k(abs/tk ln)
0.639975 0.0006	0.639986	0.0005	0.4154		
k(trk length)	0.628905		0.639955	0.0008	k(tk ln/col)
0.639897 0.0006	0.639863	0.0006	0.5355		
rem life(col)	6.6981E+03		6.8478E+03	0.0007	k(col/abs/tk ln)
0.639930 0.0005	0.639956	0.0005			
rem life(abs)	6.6632E+03		6.8474E+03	0.0007	life(col/abs/tl)
6.8487E+03 0.0006	6.8524E+03	0.0005			
source points generated 5046					

estimator	cycle	896	ave of	846 cycles	combination
simple average	combined average		corr		
k(collision)	0.639230		0.639839	0.0006	k(col/abs)
0.639919 0.0005	0.639935	0.0005	0.8380		
k(absorption)	0.643424		0.640000	0.0006	k(abs/tk ln)
0.639965 0.0006	0.639983	0.0005	0.4143		
k(trk length)	0.619796		0.639931	0.0008	k(tk ln/col)
0.639885 0.0006	0.639858	0.0006	0.5350		
rem life(col)	6.6098E+03		6.8475E+03	0.0007	k(col/abs/tk ln)
0.639923 0.0005	0.639953	0.0005			
rem life(abs)	6.6074E+03		6.8471E+03	0.0007	life(col/abs/tl)
6.8485E+03 0.0006	6.8523E+03	0.0005			
source points generated 4997					

estimator	cycle	897	ave of	847 cycles	combination
simple average	combined average		corr		
k(collision)	0.623042		0.639819	0.0006	k(col/abs)
0.639898 0.0005	0.639914	0.0005	0.8385		
k(absorption)	0.621185		0.639977	0.0006	k(abs/tk ln)
0.639950 0.0006	0.639964	0.0005	0.4145		
k(trk length)	0.632813		0.639922	0.0008	k(tk ln/col)
0.639871 0.0006	0.639840	0.0006	0.5351		
rem life(col)	7.0306E+03		6.8477E+03	0.0007	k(col/abs/tk ln)
0.639906 0.0005	0.639934	0.0005			
rem life(abs)	7.0416E+03		6.8473E+03	0.0007	life(col/abs/tl)
6.8487E+03 0.0006	6.8525E+03	0.0005			

source points generated 4865

estimator	cycle	898	ave of	848 cycles	combination
simple average	combined average		corr		
k(collision)	0.627581		0.639804	0.0006	k(col/abs)
0.639886	0.0005	0.639903	0.0005	0.8386	
k(absorption)	0.632409		0.639968	0.0006	k(abs/tk ln)
0.639943	0.0006	0.639956	0.0005	0.4146	
k(trk length)	0.635060		0.639917	0.0008	k(tk ln/col)
0.639861	0.0006	0.639828	0.0006	0.5351	
rem life(col)	6.8091E+03		6.8477E+03	0.0007	k(col/abs/tk ln)
0.639897	0.0005	0.639925	0.0005		
rem life(abs)	6.7918E+03		6.8473E+03	0.0007	life(col/abs/tl)
6.8487E+03	0.0006	6.8525E+03	0.0005		

source points generated 4993

estimator	cycle	899	ave of	849 cycles	combination
simple average	combined average		corr		
k(collision)	0.636126		0.639800	0.0006	k(col/abs)
0.639885	0.0005	0.639902	0.0005	0.8385	
k(absorption)	0.640678		0.639969	0.0006	k(abs/tk ln)
0.639949	0.0006	0.639959	0.0005	0.4146	
k(trk length)	0.649353		0.639928	0.0008	k(tk ln/col)
0.639864	0.0006	0.639827	0.0006	0.5346	
rem life(col)	6.8698E+03		6.8477E+03	0.0007	k(col/abs/tk ln)
0.639899	0.0005	0.639927	0.0005		
rem life(abs)	6.8465E+03		6.8473E+03	0.0007	life(col/abs/tl)
6.8487E+03	0.0006	6.8525E+03	0.0005		

source points generated 5052

estimator	cycle	900	ave of	850 cycles	combination
simple average	combined average		corr		
k(collision)	0.636263		0.639796	0.0006	k(col/abs)
0.639875	0.0005	0.639890	0.0005	0.8381	
k(absorption)	0.626892		0.639954	0.0006	k(abs/tk ln)
0.639944	0.0006	0.639949	0.0005	0.4136	
k(trk length)	0.645034		0.639934	0.0008	k(tk ln/col)
0.639865	0.0006	0.639825	0.0006	0.5344	
rem life(col)	6.8427E+03		6.8477E+03	0.0007	k(col/abs/tk ln)
0.639895	0.0005	0.639918	0.0005		
rem life(abs)	6.8318E+03		6.8473E+03	0.0007	life(col/abs/tl)
6.8487E+03	0.0006	6.8526E+03	0.0005		

source points generated 4986

estimator	cycle	901	ave of	851 cycles	combination
simple average	combined average		corr		
k(collision)	0.628522		0.639783	0.0006	k(col/abs)
0.639861	0.0005	0.639877	0.0005	0.8383	
k(absorption)	0.628087		0.639940	0.0006	k(abs/tk ln)
0.639930	0.0006	0.639935	0.0005	0.4143	
k(trk length)	0.627765		0.639920	0.0008	k(tk ln/col)
0.639851	0.0006	0.639811	0.0006	0.5349	
rem life(col)	6.8015E+03		6.8476E+03	0.0007	k(col/abs/tk ln)
0.639881	0.0005	0.639904	0.0005		


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rem life(abs)    6.7980E+03    6.8472E+03 0.0007    life(col/abs/tl)
6.8487E+03 0.0006    6.8527E+03 0.0005
source points generated    4960

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estimator    cycle    902    ave of    852 cycles    combination
simple average    combined average    corr
k(collision)    0.639289    0.639782 0.0006    k(col/abs)
0.639858 0.0005    0.639873 0.0005    0.8383
k(absorption)    0.634924    0.639934 0.0006    k(abs/tk ln)
0.639929 0.0006    0.639932 0.0005    0.4141
k(trk length)    0.643522    0.639924 0.0008    k(tk ln/col)
0.639853 0.0006    0.639812 0.0006    0.5349
rem life(col)    7.0095E+03    6.8478E+03 0.0007    k(col/abs/tk ln)
0.639880 0.0005    0.639901 0.0005
rem life(abs)    7.0536E+03    6.8474E+03 0.0007    life(col/abs/tl)
6.8489E+03 0.0006    6.8528E+03 0.0005
source points generated    5114

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estimator    cycle    903    ave of    853 cycles    combination
simple average    combined average    corr
k(collision)    0.645228    0.639788 0.0006    k(col/abs)
0.639864 0.0005    0.639879 0.0005    0.8383
k(absorption)    0.645267    0.639940 0.0006    k(abs/tk ln)
0.639938 0.0006    0.639939 0.0005    0.4143
k(trk length)    0.650386    0.639936 0.0008    k(tk ln/col)
0.639862 0.0006    0.639819 0.0006    0.5350
rem life(col)    6.8921E+03    6.8479E+03 0.0007    k(col/abs/tk ln)
0.639888 0.0005    0.639909 0.0005
rem life(abs)    6.8678E+03    6.8475E+03 0.0007    life(col/abs/tl)
6.8489E+03 0.0006    6.8528E+03 0.0005
source points generated    5046

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estimator    cycle    904    ave of    854 cycles    combination
simple average    combined average    corr
k(collision)    0.655686    0.639807 0.0006    k(col/abs)
0.639873 0.0005    0.639887 0.0005    0.8371
k(absorption)    0.639266    0.639940 0.0005    k(abs/tk ln)
0.639952 0.0006    0.639945 0.0005    0.4135
k(trk length)    0.663515    0.639964 0.0008    k(tk ln/col)
0.639885 0.0006    0.639840 0.0006    0.5364
rem life(col)    6.8636E+03    6.8479E+03 0.0007    k(col/abs/tk ln)
0.639903 0.0005    0.639918 0.0005
rem life(abs)    6.8950E+03    6.8475E+03 0.0007    life(col/abs/tl)
6.8489E+03 0.0006    6.8528E+03 0.0004
source points generated    5106

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estimator    cycle    905    ave of    855 cycles    combination
simple average    combined average    corr
k(collision)    0.649492    0.639818 0.0006    k(col/abs)
0.639884 0.0005    0.639898 0.0005    0.8372
k(absorption)    0.649389    0.639951 0.0005    k(abs/tk ln)
0.639958 0.0006    0.639954 0.0005    0.4134
k(trk length)    0.641125    0.639965 0.0008    k(tk ln/col)
0.639892 0.0006    0.639849 0.0006    0.5362

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rem life(col)	6.9147E+03	6.8480E+03	0.0007	k(col/abs/tk ln)
0.639911 0.0005	0.639927	0.0005		
rem life(abs)	6.9161E+03	6.8476E+03	0.0007	life(col/abs/tl)
6.8489E+03 0.0006	6.8527E+03	0.0004		
source points generated	5018			

estimator	cycle	906	ave of	856 cycles	combination
simple average	combined average		corr		
k(collision)	0.648849		0.639829	0.0006	k(col/abs)
0.639888 0.0005	0.639900	0.0005	0.8365		
k(absorption)	0.636753		0.639947	0.0005	k(abs/tk ln)
0.639958 0.0006	0.639952	0.0005	0.4133		
k(trk length)	0.642696		0.639968	0.0008	k(tk ln/col)
0.639899 0.0006	0.639858	0.0006	0.5362		
rem life(col)	6.7596E+03		6.8479E+03	0.0007	k(col/abs/tk ln)
0.639915 0.0005	0.639928	0.0005			
rem life(abs)	6.7884E+03		6.8475E+03	0.0007	life(col/abs/tl)
6.8489E+03 0.0006	6.8527E+03	0.0004			
source points generated	5019				

estimator	cycle	907	ave of	857 cycles	combination
simple average	combined average		corr		
k(collision)	0.638909		0.639828	0.0006	k(col/abs)
0.639886 0.0005	0.639898	0.0005	0.8365		
k(absorption)	0.638021		0.639945	0.0005	k(abs/tk ln)
0.639964 0.0006	0.639954	0.0005	0.4129		
k(trk length)	0.653307		0.639984	0.0008	k(tk ln/col)
0.639906 0.0006	0.639860	0.0005	0.5358		
rem life(col)	6.9376E+03		6.8480E+03	0.0007	k(col/abs/tk ln)
0.639919 0.0005	0.639929	0.0005			
rem life(abs)	6.9611E+03		6.8477E+03	0.0007	life(col/abs/tl)
6.8490E+03 0.0006	6.8528E+03	0.0004			
source points generated	4926				

estimator	cycle	908	ave of	858 cycles	combination
simple average	combined average		corr		
k(collision)	0.641174		0.639829	0.0006	k(col/abs)
0.639888 0.0005	0.639900	0.0005	0.8365		
k(absorption)	0.642253		0.639947	0.0005	k(abs/tk ln)
0.639971 0.0006	0.639959	0.0005	0.4129		
k(trk length)	0.648978		0.639994	0.0008	k(tk ln/col)
0.639912 0.0006	0.639864	0.0005	0.5358		
rem life(col)	6.9338E+03		6.8481E+03	0.0007	k(col/abs/tk ln)
0.639924 0.0005	0.639933	0.0005			
rem life(abs)	6.9060E+03		6.8477E+03	0.0007	life(col/abs/tl)
6.8491E+03 0.0006	6.8528E+03	0.0004			
source points generated	5011				

estimator	cycle	909	ave of	859 cycles	combination
simple average	combined average		corr		
k(collision)	0.637087		0.639826	0.0006	k(col/abs)
0.639884 0.0005	0.639896	0.0005	0.8365		
k(absorption)	0.635492		0.639942	0.0005	k(abs/tk ln)
0.639982 0.0006	0.639961	0.0005	0.4114		

k(trk length)	0.663488	0.640022	0.0008	k(tk ln/col)
0.639924	0.0006	0.639867	0.0005	0.5344
rem life(col)	7.0380E+03	6.8483E+03	0.0007	k(col/abs/tk ln)
0.639930	0.0005	0.639935	0.0005	
rem life(abs)	7.0508E+03	6.8480E+03	0.0007	life(col/abs/tl)
6.8493E+03	0.0006	6.8529E+03	0.0004	
source points generated	4960			

estimator	cycle	910	ave of	860 cycles	combination
simple average	combined average		corr		
k(collision)	0.643515		0.639830	0.0006	k(col/abs)
0.639887	0.0005	0.639898	0.0005	0.8365	
k(absorption)	0.641178		0.639944	0.0005	k(abs/tk ln)
0.639989	0.0005	0.639966	0.0005	0.4113	
k(trk length)	0.651308		0.640035	0.0008	k(tk ln/col)
0.639933	0.0006	0.639873	0.0005	0.5345	
rem life(col)	6.7407E+03		6.8482E+03	0.0007	k(col/abs/tk ln)
0.639936	0.0005	0.639940	0.0005		
rem life(abs)	6.7201E+03		6.8478E+03	0.0007	life(col/abs/tl)
6.8491E+03	0.0006	6.8528E+03	0.0004		
source points generated	5057				

estimator	cycle	911	ave of	861 cycles	combination
simple average	combined average		corr		
k(collision)	0.625139		0.639813	0.0006	k(col/abs)
0.639869	0.0005	0.639880	0.0005	0.8369	
k(absorption)	0.623087		0.639924	0.0005	k(abs/tk ln)
0.639975	0.0005	0.639949	0.0005	0.4117	
k(trk length)	0.632184		0.640026	0.0008	k(tk ln/col)
0.639920	0.0006	0.639858	0.0005	0.5347	
rem life(col)	6.8906E+03		6.8482E+03	0.0007	k(col/abs/tk ln)
0.639921	0.0005	0.639923	0.0005		
rem life(abs)	6.8736E+03		6.8478E+03	0.0007	life(col/abs/tl)
6.8491E+03	0.0006	6.8528E+03	0.0004		
source points generated	4817				

estimator	cycle	912	ave of	862 cycles	combination
simple average	combined average		corr		
k(collision)	0.621115		0.639792	0.0006	k(col/abs)
0.639849	0.0005	0.639861	0.0005	0.8373	
k(absorption)	0.625504		0.639907	0.0005	k(abs/tk ln)
0.639971	0.0005	0.639938	0.0005	0.4102	
k(trk length)	0.648287		0.640035	0.0008	k(tk ln/col)
0.639913	0.0006	0.639843	0.0005	0.5324	
rem life(col)	7.0418E+03		6.8484E+03	0.0007	k(col/abs/tk ln)
0.639911	0.0005	0.639911	0.0005		
rem life(abs)	7.0215E+03		6.8480E+03	0.0007	life(col/abs/tl)
6.8494E+03	0.0006	6.8530E+03	0.0004		
source points generated	5001				

estimator	cycle	913	ave of	863 cycles	combination
simple average	combined average		corr		
k(collision)	0.634216		0.639785	0.0006	k(col/abs)
0.639837	0.0005	0.639847	0.0005	0.8369	

k(absorption)	0.623388	0.639888	0.0005	k(abs/tk ln)
0.639957	0.0005	0.639922	0.0005	0.4106
k(trk length)	0.631309	0.640025	0.0008	k(tk ln/col)
0.639905	0.0006	0.639836	0.0005	0.5326
rem life(col)	7.1179E+03	6.8487E+03	0.0007	k(col/abs/tk ln)
0.639899	0.0005	0.639896	0.0005	
rem life(abs)	7.1153E+03	6.8484E+03	0.0007	life(col/abs/tl)
6.8497E+03	0.0006	6.8533E+03	0.0004	
source points generated	5105			

estimator	cycle	914	ave of	864 cycles	combination
simple average	combined average		corr		
k(collision)	0.631982	0.639776	0.0006	k(col/abs)	
0.639829	0.0005	0.639839	0.0005	0.8370	
k(absorption)	0.633702	0.639881	0.0005	k(abs/tk ln)	
0.639950	0.0005	0.639915	0.0005	0.4108	
k(trk length)	0.634628	0.640019	0.0008	k(tk ln/col)	
0.639898	0.0006	0.639828	0.0005	0.5327	
rem life(col)	6.8732E+03	6.8488E+03	0.0007	k(col/abs/tk ln)	
0.639892	0.0005	0.639889	0.0005		
rem life(abs)	6.8665E+03	6.8484E+03	0.0007	life(col/abs/tl)	
6.8497E+03	0.0006	6.8533E+03	0.0004		
source points generated	4983				

estimator	cycle	915	ave of	865 cycles	combination
simple average	combined average		corr		
k(collision)	0.646744	0.639784	0.0006	k(col/abs)	
0.639829	0.0005	0.639838	0.0005	0.8362	
k(absorption)	0.634061	0.639874	0.0005	k(abs/tk ln)	
0.639939	0.0005	0.639906	0.0005	0.4111	
k(trk length)	0.626484	0.640003	0.0008	k(tk ln/col)	
0.639894	0.0006	0.639831	0.0005	0.5316	
rem life(col)	6.6068E+03	6.8485E+03	0.0007	k(col/abs/tk ln)	
0.639887	0.0005	0.639883	0.0005		
rem life(abs)	6.6103E+03	6.8481E+03	0.0007	life(col/abs/tl)	
6.8494E+03	0.0006	6.8531E+03	0.0005		
source points generated	5192				

estimator	cycle	916	ave of	866 cycles	combination
simple average	combined average		corr		
k(collision)	0.630937	0.639774	0.0006	k(col/abs)	
0.639820	0.0005	0.639829	0.0005	0.8363	
k(absorption)	0.633055	0.639866	0.0005	k(abs/tk ln)	
0.639930	0.0005	0.639897	0.0005	0.4114	
k(trk length)	0.630922	0.639993	0.0008	k(tk ln/col)	
0.639883	0.0006	0.639820	0.0005	0.5318	
rem life(col)	6.8590E+03	6.8485E+03	0.0007	k(col/abs/tk ln)	
0.639878	0.0005	0.639874	0.0005		
rem life(abs)	6.8517E+03	6.8481E+03	0.0007	life(col/abs/tl)	
6.8494E+03	0.0006	6.8531E+03	0.0004		
source points generated	4833				

estimator	cycle	917	ave of	867 cycles	combination
simple average	combined average		corr		

k(collision)	0.639875	0.639774	0.0006	k(col/abs)
0.639822	0.0005	0.639832	0.0005	0.8362
k(absorption)	0.643523	0.639871	0.0005	k(abs/tk ln)
0.639942	0.0005	0.639905	0.0005	0.4115
k(trk length)	0.658033	0.640014	0.0008	k(tk ln/col)
0.639894	0.0006	0.639825	0.0005	0.5313
rem life(col)	6.9792E+03	6.8487E+03	0.0007	k(col/abs/tk ln)
0.639886	0.0005	0.639880	0.0005	
rem life(abs)	6.9724E+03	6.8483E+03	0.0007	life(col/abs/tl)
6.8495E+03	0.0006	6.8531E+03	0.0004	
source points generated	5068			

estimator	cycle	918	ave of	868 cycles	combination
simple average	combined average		corr		
k(collision)	0.634037	0.639768	0.0006	k(col/abs)	
0.639820	0.0005	0.639831	0.0005	0.8359	
k(absorption)	0.641939	0.639873	0.0005	k(abs/tk ln)	
0.639940	0.0005	0.639906	0.0005	0.4113	
k(trk length)	0.634477	0.640007	0.0008	k(tk ln/col)	
0.639887	0.0006	0.639818	0.0005	0.5315	
rem life(col)	6.8176E+03	6.8486E+03	0.0007	k(col/abs/tk ln)	
0.639883	0.0005	0.639879	0.0005		
rem life(abs)	6.8297E+03	6.8482E+03	0.0007	life(col/abs/tl)	
6.8495E+03	0.0006	6.8530E+03	0.0004		
source points generated	4928				

estimator	cycle	919	ave of	869 cycles	combination
simple average	combined average		corr		
k(collision)	0.648144	0.639777	0.0006	k(col/abs)	
0.639836	0.0005	0.639847	0.0005	0.8357	
k(absorption)	0.658968	0.639895	0.0005	k(abs/tk ln)	
0.639952	0.0005	0.639923	0.0005	0.4107	
k(trk length)	0.641345	0.640009	0.0008	k(tk ln/col)	
0.639893	0.0006	0.639826	0.0005	0.5313	
rem life(col)	6.5930E+03	6.8483E+03	0.0007	k(col/abs/tk ln)	
0.639894	0.0005	0.639894	0.0005		
rem life(abs)	6.5524E+03	6.8479E+03	0.0007	life(col/abs/tl)	
6.8492E+03	0.0006	6.8527E+03	0.0005		
source points generated	5107				

estimator	cycle	920	ave of	870 cycles	combination
simple average	combined average		corr		
k(collision)	0.634645	0.639771	0.0006	k(col/abs)	
0.639829	0.0005	0.639840	0.0005	0.8357	
k(absorption)	0.632717	0.639887	0.0005	k(abs/tk ln)	
0.639946	0.0005	0.639916	0.0005	0.4108	
k(trk length)	0.637343	0.640006	0.0007	k(tk ln/col)	
0.639888	0.0006	0.639821	0.0005	0.5314	
rem life(col)	6.9227E+03	6.8484E+03	0.0007	k(col/abs/tk ln)	
0.639888	0.0005	0.639887	0.0005		
rem life(abs)	6.9438E+03	6.8480E+03	0.0007	life(col/abs/tl)	
6.8493E+03	0.0006	6.8527E+03	0.0004		
source points generated	4892				

estimator	cycle	921	ave of	871 cycles	combination
simple average	combined average		corr		
k(collision)	0.636594		0.639768	0.0006	k(col/abs)
0.639827	0.0005	0.639838	0.0005	0.8357	
k(absorption)	0.639529		0.639886	0.0005	k(abs/tk ln)
0.639941	0.0005	0.639913	0.0005	0.4107	
k(trk length)	0.631598		0.639996	0.0007	k(tk ln/col)
0.639882	0.0006	0.639816	0.0005	0.5314	
rem life(col)	6.8430E+03		6.8484E+03	0.0007	k(col/abs/tk ln)
0.639883	0.0005	0.639884	0.0005		
rem life(abs)	6.8545E+03		6.8480E+03	0.0007	life(col/abs/tl)
6.8493E+03	0.0006	6.8527E+03	0.0004		
source points generated		4987			

estimator	cycle	922	ave of	872 cycles	combination
simple average	combined average		corr		
k(collision)	0.635042		0.639762	0.0006	k(col/abs)
0.639818	0.0005	0.639828	0.0005	0.8356	
k(absorption)	0.629243		0.639874	0.0005	k(abs/tk ln)
0.639945	0.0005	0.639909	0.0005	0.4087	
k(trk length)	0.656722		0.640015	0.0007	k(tk ln/col)
0.639889	0.0006	0.639816	0.0005	0.5303	
rem life(col)	6.7513E+03		6.8483E+03	0.0007	k(col/abs/tk ln)
0.639884	0.0005	0.639880	0.0005		
rem life(abs)	6.7367E+03		6.8479E+03	0.0007	life(col/abs/tl)
6.8491E+03	0.0006	6.8526E+03	0.0004		
source points generated		4983			

estimator	cycle	923	ave of	873 cycles	combination
simple average	combined average		corr		
k(collision)	0.639547		0.639762	0.0006	k(col/abs)
0.639815	0.0005	0.639825	0.0005	0.8355	
k(absorption)	0.634769		0.639868	0.0005	k(abs/tk ln)
0.639946	0.0005	0.639907	0.0005	0.4083	
k(trk length)	0.647723		0.640024	0.0007	k(tk ln/col)
0.639893	0.0006	0.639817	0.0005	0.5302	
rem life(col)	6.6650E+03		6.8481E+03	0.0007	k(col/abs/tk ln)
0.639885	0.0005	0.639878	0.0005		
rem life(abs)	6.6791E+03		6.8477E+03	0.0007	life(col/abs/tl)
6.8490E+03	0.0006	6.8525E+03	0.0004		
source points generated		5072			

estimator	cycle	924	ave of	874 cycles	combination
simple average	combined average		corr		
k(collision)	0.625966		0.639746	0.0006	k(col/abs)
0.639801	0.0005	0.639811	0.0005	0.8357	
k(absorption)	0.628661		0.639855	0.0005	k(abs/tk ln)
0.639936	0.0005	0.639895	0.0005	0.4085	
k(trk length)	0.634304		0.640017	0.0007	k(tk ln/col)
0.639882	0.0006	0.639804	0.0005	0.5303	
rem life(col)	6.6713E+03		6.8479E+03	0.0007	k(col/abs/tk ln)
0.639873	0.0005	0.639867	0.0005		
rem life(abs)	6.6565E+03		6.8475E+03	0.0007	life(col/abs/tl)
6.8488E+03	0.0006	6.8525E+03	0.0004		

source points generated 4869

estimator	cycle	925	ave of	875 cycles	combination
simple average	combined average		corr		
k(collision)	0.636768		0.639743	0.0006	k(col/abs)
0.639801 0.0005	0.639811	0.0005	0.8356		
k(absorption)	0.642645		0.639859	0.0005	k(abs/tk ln)
0.639939 0.0005	0.639898	0.0005	0.4085		
k(trk length)	0.642378		0.640020	0.0007	k(tk ln/col)
0.639881 0.0006	0.639802	0.0005	0.5302		
rem life(col)	6.7470E+03		6.8478E+03	0.0007	k(col/abs/tk ln)
0.639874 0.0005	0.639868	0.0005			
rem life(abs)	6.7355E+03		6.8473E+03	0.0007	life(col/abs/tl)
6.8487E+03 0.0006	6.8525E+03	0.0004			

source points generated 5112

estimator	cycle	926	ave of	876 cycles	combination
simple average	combined average		corr		
k(collision)	0.640312		0.639743	0.0006	k(col/abs)
0.639803 0.0005	0.639814	0.0005	0.8355		
k(absorption)	0.644000		0.639863	0.0005	k(abs/tk ln)
0.639936 0.0005	0.639899	0.0005	0.4080		
k(trk length)	0.629148		0.640008	0.0007	k(tk ln/col)
0.639876 0.0006	0.639800	0.0005	0.5300		
rem life(col)	6.9047E+03		6.8478E+03	0.0007	k(col/abs/tk ln)
0.639871 0.0005	0.639869	0.0005			
rem life(abs)	6.9267E+03		6.8474E+03	0.0007	life(col/abs/tl)
6.8488E+03 0.0006	6.8525E+03	0.0004			

source points generated 5020

estimator	cycle	927	ave of	877 cycles	combination
simple average	combined average		corr		
k(collision)	0.651373		0.639757	0.0006	k(col/abs)
0.639814 0.0005	0.639825	0.0005	0.8356		
k(absorption)	0.647393		0.639872	0.0005	k(abs/tk ln)
0.639939 0.0005	0.639905	0.0005	0.4077		
k(trk length)	0.638019		0.640005	0.0007	k(tk ln/col)
0.639881 0.0006	0.639810	0.0005	0.5294		
rem life(col)	6.7801E+03		6.8478E+03	0.0007	k(col/abs/tk ln)
0.639878 0.0005	0.639876	0.0005			
rem life(abs)	6.7938E+03		6.8474E+03	0.0007	life(col/abs/tl)
6.8487E+03 0.0006	6.8524E+03	0.0004			

source points generated 5092

estimator	cycle	928	ave of	878 cycles	combination
simple average	combined average		corr		
k(collision)	0.645466		0.639763	0.0006	k(col/abs)
0.639820 0.0005	0.639831	0.0005	0.8356		
k(absorption)	0.644138		0.639877	0.0005	k(abs/tk ln)
0.639936 0.0005	0.639906	0.0005	0.4072		
k(trk length)	0.630447		0.639995	0.0007	k(tk ln/col)
0.639879 0.0006	0.639813	0.0005	0.5288		
rem life(col)	6.8473E+03		6.8478E+03	0.0007	k(col/abs/tk ln)
0.639878 0.0005	0.639878	0.0005			

rem life(abs)	6.8313E+03	6.8474E+03	0.0007	life(col/abs/tl)
6.8487E+03	0.0006	6.8524E+03	0.0004	
source points generated	4956			

estimator	cycle	929	ave of	879 cycles	combination
simple average	combined average		corr		
k(collision)	0.637840		0.639761	0.0006	k(col/abs)
0.639809	0.0005	0.639817	0.0005	0.8346	
k(absorption)	0.622641		0.639857	0.0005	k(abs/tk ln)
0.639933	0.0005	0.639895	0.0005	0.4046	
k(trk length)	0.653164		0.640010	0.0007	k(tk ln/col)
0.639885	0.0006	0.639814	0.0005	0.5283	
rem life(col)	6.8475E+03		6.8478E+03	0.0007	k(col/abs/tk ln)
0.639876	0.0005	0.639869	0.0005		
rem life(abs)	6.8786E+03		6.8474E+03	0.0007	life(col/abs/tl)
6.8487E+03	0.0006	6.8525E+03	0.0004		
source points generated	4917				

estimator	cycle	930	ave of	880 cycles	combination
simple average	combined average		corr		
k(collision)	0.656914		0.639781	0.0006	k(col/abs)
0.639823	0.0005	0.639831	0.0005	0.8345	
k(absorption)	0.647384		0.639866	0.0005	k(abs/tk ln)
0.639947	0.0005	0.639906	0.0005	0.4051	
k(trk length)	0.656279		0.640028	0.0007	k(tk ln/col)
0.639904	0.0006	0.639833	0.0005	0.5292	
rem life(col)	6.9711E+03		6.8479E+03	0.0007	k(col/abs/tk ln)
0.639891	0.0005	0.639882	0.0005		
rem life(abs)	7.0304E+03		6.8476E+03	0.0007	life(col/abs/tl)
6.8489E+03	0.0006	6.8526E+03	0.0004		
source points generated	5123				

estimator	cycle	931	ave of	881 cycles	combination
simple average	combined average		corr		
k(collision)	0.626792		0.639766	0.0006	k(col/abs)
0.639807	0.0005	0.639814	0.0005	0.8348	
k(absorption)	0.623918		0.639848	0.0005	k(abs/tk ln)
0.639929	0.0005	0.639888	0.0005	0.4062	
k(trk length)	0.625210		0.640011	0.0007	k(tk ln/col)
0.639888	0.0006	0.639818	0.0005	0.5299	
rem life(col)	7.0539E+03		6.8481E+03	0.0007	k(col/abs/tk ln)
0.639875	0.0005	0.639865	0.0005		
rem life(abs)	7.0596E+03		6.8478E+03	0.0007	life(col/abs/tl)
6.8491E+03	0.0006	6.8527E+03	0.0004		
source points generated	4779				

estimator	cycle	932	ave of	882 cycles	combination
simple average	combined average		corr		
k(collision)	0.654157		0.639782	0.0006	k(col/abs)
0.639819	0.0005	0.639826	0.0005	0.8348	
k(absorption)	0.647210		0.639856	0.0005	k(abs/tk ln)
0.639936	0.0005	0.639896	0.0005	0.4063	
k(trk length)	0.645143		0.640017	0.0007	k(tk ln/col)
0.639900	0.0006	0.639832	0.0005	0.5299	

rem life(col)	6.9994E+03	6.8483E+03	0.0007	k(col/abs/tk ln)
0.639885	0.0005	0.639875	0.0005	
rem life(abs)	7.0358E+03	6.8480E+03	0.0007	life(col/abs/tl)
6.8493E+03	0.0006	6.8528E+03	0.0004	
source points generated	5259			

estimator	cycle	933	ave of	883 cycles	combination
simple average	combined average		corr		
k(collision)	0.653794		0.639798	0.0006	k(col/abs)
0.639834	0.0005	0.639840	0.0005	0.8350	
k(absorption)	0.651432		0.639869	0.0005	k(abs/tk ln)
0.639953	0.0005	0.639911	0.0005	0.4073	
k(trk length)	0.657541		0.640037	0.0007	k(tk ln/col)
0.639917	0.0006	0.639849	0.0005	0.5308	
rem life(col)	6.9405E+03	6.8484E+03	0.0007		k(col/abs/tk ln)
0.639901	0.0005	0.639890	0.0005		
rem life(abs)	6.9546E+03	6.8482E+03	0.0007		life(col/abs/tl)
6.8493E+03	0.0006	6.8527E+03	0.0004		
source points generated	4985				

estimator	cycle	934	ave of	884 cycles	combination
simple average	combined average		corr		
k(collision)	0.638777		0.639797	0.0006	k(col/abs)
0.639829	0.0005	0.639834	0.0005	0.8348	
k(absorption)	0.632076		0.639860	0.0005	k(abs/tk ln)
0.639950	0.0005	0.639905	0.0005	0.4069	
k(trk length)	0.643107		0.640040	0.0007	k(tk ln/col)
0.639919	0.0006	0.639849	0.0005	0.5307	
rem life(col)	6.8543E+03	6.8484E+03	0.0007		k(col/abs/tk ln)
0.639899	0.0005	0.639885	0.0005		
rem life(abs)	6.8665E+03	6.8482E+03	0.0007		life(col/abs/tl)
6.8494E+03	0.0006	6.8528E+03	0.0004		
source points generated	4880				

estimator	cycle	935	ave of	885 cycles	combination
simple average	combined average		corr		
k(collision)	0.636159		0.639793	0.0006	k(col/abs)
0.639822	0.0005	0.639827	0.0005	0.8348	
k(absorption)	0.632080		0.639851	0.0005	k(abs/tk ln)
0.639930	0.0005	0.639890	0.0005	0.4076	
k(trk length)	0.612565		0.640009	0.0007	k(tk ln/col)
0.639901	0.0006	0.639839	0.0005	0.5303	
rem life(col)	7.0274E+03	6.8486E+03	0.0007		k(col/abs/tk ln)
0.639884	0.0005	0.639872	0.0005		
rem life(abs)	7.0051E+03	6.8484E+03	0.0007		life(col/abs/tl)
6.8495E+03	0.0006	6.8529E+03	0.0004		
source points generated	5007				

estimator	cycle	936	ave of	886 cycles	combination
simple average	combined average		corr		
k(collision)	0.641622		0.639795	0.0006	k(col/abs)
0.639829	0.0005	0.639836	0.0005	0.8345	
k(absorption)	0.651051		0.639864	0.0005	k(abs/tk ln)
0.639935	0.0005	0.639899	0.0005	0.4070	

k(trk length)	0.636179	0.640005	0.0007	k(tk ln/col)
0.639900	0.0006	0.639839	0.0005	0.5302
rem life(col)	6.8693E+03	6.8486E+03	0.0007	k(col/abs/tk ln)
0.639888	0.0005	0.639879	0.0005	
rem life(abs)	6.8397E+03	6.8484E+03	0.0007	life(col/abs/tl)
6.8495E+03	0.0006	6.8529E+03	0.0004	
source points generated	5037			

estimator	cycle	937	ave of	887 cycles	combination
simple average	combined average		corr		
k(collision)	0.649549		0.639806	0.0006	k(col/abs)
0.639839	0.0005	0.639845	0.0005	0.8345	
k(absorption)	0.646538		0.639872	0.0005	k(abs/tk ln)
0.639943	0.0005	0.639907	0.0005	0.4072	
k(trk length)	0.647911		0.640014	0.0007	k(tk ln/col)
0.639910	0.0006	0.639850	0.0005	0.5305	
rem life(col)	6.7167E+03		6.8485E+03	0.0007	k(col/abs/tk ln)
0.639897	0.0005	0.639888	0.0005		
rem life(abs)	6.7245E+03		6.8482E+03	0.0007	life(col/abs/tl)
6.8494E+03	0.0006	6.8527E+03	0.0004		
source points generated	5082				

estimator	cycle	938	ave of	888 cycles	combination
simple average	combined average		corr		
k(collision)	0.642916		0.639809	0.0006	k(col/abs)
0.639836	0.0005	0.639841	0.0005	0.8339	
k(absorption)	0.631841		0.639863	0.0005	k(abs/tk ln)
0.639930	0.0005	0.639896	0.0005	0.4077	
k(trk length)	0.624959		0.639997	0.0007	k(tk ln/col)
0.639903	0.0006	0.639849	0.0005	0.5297	
rem life(col)	6.7000E+03		6.8483E+03	0.0007	k(col/abs/tk ln)
0.639890	0.0005	0.639879	0.0005		
rem life(abs)	6.7132E+03		6.8481E+03	0.0007	life(col/abs/tl)
6.8493E+03	0.0006	6.8527E+03	0.0004		
source points generated	4972				

estimator	cycle	939	ave of	889 cycles	combination
simple average	combined average		corr		
k(collision)	0.618020		0.639785	0.0006	k(col/abs)
0.639818	0.0005	0.639824	0.0005	0.8338	
k(absorption)	0.629832		0.639851	0.0005	k(abs/tk ln)
0.639918	0.0005	0.639884	0.0005	0.4082	
k(trk length)	0.629627		0.639985	0.0007	k(tk ln/col)
0.639885	0.0006	0.639828	0.0005	0.5300	
rem life(col)	6.9833E+03		6.8485E+03	0.0007	k(col/abs/tk ln)
0.639874	0.0005	0.639866	0.0005		
rem life(abs)	6.9598E+03		6.8482E+03	0.0007	life(col/abs/tl)
6.8494E+03	0.0006	6.8528E+03	0.0004		
source points generated	4795				

estimator	cycle	940	ave of	890 cycles	combination
simple average	combined average		corr		
k(collision)	0.655974		0.639803	0.0006	k(col/abs)
0.639835	0.0005	0.639841	0.0005	0.8341	

k(absorption)	0.653655	0.639867	0.0005	k(abs/tk ln)
0.639932	0.0005	0.639899	0.0005	0.4088
k(trk length)	0.650361	0.639997	0.0007	k(tk ln/col)
0.639900	0.0006	0.639845	0.0005	0.5304
rem life(col)	6.7170E+03	6.8483E+03	0.0007	k(col/abs/tk ln)
0.639889	0.0005	0.639881	0.0005	
rem life(abs)	6.6943E+03	6.8480E+03	0.0007	life(col/abs/tl)
6.8493E+03	0.0006	6.8528E+03	0.0004	
source points generated	5316			

estimator	cycle	941	ave of	891 cycles	combination
simple average	combined average		corr		
k(collision)	0.648637	0.639813	0.0006	k(col/abs)	
0.639843	0.0005	0.639849	0.0005	0.8342	
k(absorption)	0.645845	0.639873	0.0005	k(abs/tk ln)	
0.639941	0.0005	0.639907	0.0005	0.4090	
k(trk length)	0.649640	0.640008	0.0007	k(tk ln/col)	
0.639910	0.0006	0.639855	0.0005	0.5307	
rem life(col)	6.8055E+03	6.8483E+03	0.0007	k(col/abs/tk ln)	
0.639898	0.0005	0.639889	0.0005		
rem life(abs)	6.8179E+03	6.8480E+03	0.0007	life(col/abs/tl)	
6.8492E+03	0.0006	6.8527E+03	0.0004		
source points generated	4916				

estimator	cycle	942	ave of	892 cycles	combination
simple average	combined average		corr		
k(collision)	0.646227	0.639820	0.0006	k(col/abs)	
0.639846	0.0005	0.639851	0.0005	0.8339	
k(absorption)	0.638551	0.639872	0.0005	k(abs/tk ln)	
0.639952	0.0005	0.639912	0.0005	0.4083	
k(trk length)	0.662119	0.640033	0.0007	k(tk ln/col)	
0.639926	0.0006	0.639865	0.0005	0.5309	
rem life(col)	6.7453E+03	6.8482E+03	0.0007	k(col/abs/tk ln)	
0.639908	0.0005	0.639895	0.0005		
rem life(abs)	6.7758E+03	6.8479E+03	0.0007	life(col/abs/tl)	
6.8491E+03	0.0006	6.8527E+03	0.0004		
source points generated	4967				

estimator	cycle	943	ave of	893 cycles	combination
simple average	combined average		corr		
k(collision)	0.648224	0.639829	0.0006	k(col/abs)	
0.639853	0.0005	0.639858	0.0005	0.8340	
k(absorption)	0.644707	0.639877	0.0005	k(abs/tk ln)	
0.639960	0.0005	0.639918	0.0005	0.4085	
k(trk length)	0.649496	0.640043	0.0007	k(tk ln/col)	
0.639936	0.0006	0.639875	0.0005	0.5312	
rem life(col)	6.6425E+03	6.8479E+03	0.0007	k(col/abs/tk ln)	
0.639917	0.0005	0.639902	0.0005		
rem life(abs)	6.6787E+03	6.8477E+03	0.0007	life(col/abs/tl)	
6.8489E+03	0.0006	6.8525E+03	0.0004		
source points generated	4997				

estimator	cycle	944	ave of	894 cycles	combination
simple average	combined average		corr		

k(collision)	0.651424	0.639842	0.0006	k(col/abs)
0.639869	0.0005	0.639874	0.0005	0.8342
k(absorption)	0.655552	0.639895	0.0005	k(abs/tk ln)
0.639982	0.0005	0.639938	0.0005	0.4102
k(trk length)	0.663834	0.640070	0.0007	k(tk ln/col)
0.639956	0.0006	0.639891	0.0005	0.5321
rem life(col)	6.8804E+03	6.8480E+03	0.0007	k(col/abs/tk ln)
0.639936	0.0005	0.639920	0.0005	
rem life(abs)	6.8769E+03	6.8477E+03	0.0007	life(col/abs/tl)
6.8489E+03	0.0006	6.8524E+03	0.0004	
source points generated	5074			

estimator	cycle	945	ave of	895 cycles	combination
simple average	combined average		corr		
k(collision)	0.624837	0.639826	0.0006	k(col/abs)	
0.639858	0.0005	0.639864	0.0005	0.8338	
k(absorption)	0.635335	0.639890	0.0005	k(abs/tk ln)	
0.639974	0.0005	0.639931	0.0005	0.4103	
k(trk length)	0.629790	0.640058	0.0007	k(tk ln/col)	
0.639942	0.0006	0.639875	0.0005	0.5325	
rem life(col)	6.7845E+03	6.8479E+03	0.0007	k(col/abs/tk ln)	
0.639925	0.0005	0.639912	0.0005		
rem life(abs)	6.7814E+03	6.8477E+03	0.0007	life(col/abs/tl)	
6.8489E+03	0.0006	6.8523E+03	0.0004		
source points generated	4841				

estimator	cycle	946	ave of	896 cycles	combination
simple average	combined average		corr		
k(collision)	0.638814	0.639825	0.0006	k(col/abs)	
0.639853	0.0005	0.639858	0.0005	0.8336	
k(absorption)	0.631947	0.639881	0.0005	k(abs/tk ln)	
0.639976	0.0005	0.639928	0.0005	0.4093	
k(trk length)	0.652065	0.640072	0.0007	k(tk ln/col)	
0.639948	0.0006	0.639877	0.0005	0.5322	
rem life(col)	6.9155E+03	6.8480E+03	0.0007	k(col/abs/tk ln)	
0.639926	0.0005	0.639909	0.0005		
rem life(abs)	6.9326E+03	6.8478E+03	0.0007	life(col/abs/tl)	
6.8489E+03	0.0006	6.8523E+03	0.0004		
source points generated	5137				

estimator	cycle	947	ave of	897 cycles	combination
simple average	combined average		corr		
k(collision)	0.659763	0.639847	0.0006	k(col/abs)	
0.639873	0.0005	0.639878	0.0005	0.8341	
k(absorption)	0.655802	0.639899	0.0005	k(abs/tk ln)	
0.639997	0.0005	0.639947	0.0005	0.4108	
k(trk length)	0.660715	0.640095	0.0007	k(tk ln/col)	
0.639971	0.0006	0.639899	0.0005	0.5336	
rem life(col)	6.9166E+03	6.8480E+03	0.0007	k(col/abs/tk ln)	
0.639947	0.0005	0.639929	0.0005		
rem life(abs)	6.8788E+03	6.8478E+03	0.0006	life(col/abs/tl)	
6.8489E+03	0.0006	6.8522E+03	0.0004		
source points generated	5144				

estimator	cycle	948	ave of	898 cycles	combination
simple average	combined average		corr		
k(collision)	0.637871		0.639845	0.0006	k(col/abs)
0.639875	0.0005	0.639880	0.0005	0.8339	
k(absorption)	0.645118		0.639905	0.0005	k(abs/tk ln)
0.639993	0.0005	0.639948	0.0005	0.4102	
k(trk length)	0.629107		0.640082	0.0007	k(tk ln/col)
0.639964	0.0006	0.639895	0.0005	0.5335	
rem life(col)	6.6638E+03		6.8478E+03	0.0007	k(col/abs/tk ln)
0.639944	0.0005	0.639929	0.0005		
rem life(abs)	6.6697E+03		6.8476E+03	0.0006	life(col/abs/tl)
6.8488E+03	0.0006	6.8522E+03	0.0004		
source points generated 4803					

estimator	cycle	949	ave of	899 cycles	combination
simple average	combined average		corr		
k(collision)	0.627179		0.639830	0.0006	k(col/abs)
0.639859	0.0005	0.639864	0.0005	0.8342	
k(absorption)	0.623996		0.639887	0.0005	k(abs/tk ln)
0.639975	0.0005	0.639930	0.0005	0.4114	
k(trk length)	0.622578		0.640063	0.0007	k(tk ln/col)
0.639947	0.0006	0.639880	0.0005	0.5343	
rem life(col)	6.8576E+03		6.8479E+03	0.0007	k(col/abs/tk ln)
0.639927	0.0005	0.639912	0.0005		
rem life(abs)	6.8808E+03		6.8476E+03	0.0006	life(col/abs/tl)
6.8488E+03	0.0006	6.8523E+03	0.0004		
source points generated 4909					

estimator	cycle	950	ave of	900 cycles	combination
simple average	combined average		corr		
k(collision)	0.646755		0.639838	0.0006	k(col/abs)
0.639870	0.0005	0.639876	0.0005	0.8342	
k(absorption)	0.652923		0.639901	0.0005	k(abs/tk ln)
0.639995	0.0005	0.639947	0.0005	0.4128	
k(trk length)	0.663617		0.640089	0.0007	k(tk ln/col)
0.639964	0.0006	0.639891	0.0005	0.5346	
rem life(col)	6.6158E+03		6.8476E+03	0.0007	k(col/abs/tk ln)
0.639943	0.0005	0.639927	0.0005		
rem life(abs)	6.5894E+03		6.8474E+03	0.0006	life(col/abs/tl)
6.8486E+03	0.0006	6.8522E+03	0.0004		
source points generated 5155					

estimator	cycle	951	ave of	901 cycles	combination
simple average	combined average		corr		
k(collision)	0.639247		0.639838	0.0006	k(col/abs)
0.639864	0.0005	0.639870	0.0005	0.8339	
k(absorption)	0.631001		0.639891	0.0005	k(abs/tk ln)
0.640002	0.0005	0.639946	0.0005	0.4105	
k(trk length)	0.662050		0.640114	0.0007	k(tk ln/col)
0.639976	0.0006	0.639895	0.0005	0.5337	
rem life(col)	6.6506E+03		6.8474E+03	0.0007	k(col/abs/tk ln)
0.639948	0.0005	0.639926	0.0005		
rem life(abs)	6.6734E+03		6.8472E+03	0.0006	life(col/abs/tl)
6.8484E+03	0.0006	6.8521E+03	0.0004		

source points generated 4917

estimator	cycle	952	ave of	902 cycles	combination
simple average	combined average			corr	
k(collision)	0.634482		0.639832	0.0005	k(col/abs)
0.639861 0.0005	0.639867	0.0005	0.8338		
k(absorption)	0.639576		0.639891	0.0005	k(abs/tk ln)
0.639990 0.0005	0.639939	0.0005	0.4100		
k(trk length)	0.617230		0.640088	0.0007	k(tk ln/col)
0.639960 0.0006	0.639885	0.0005	0.5338		
rem life(col)	6.6743E+03		6.8472E+03	0.0007	k(col/abs/tk ln)
0.639937 0.0005	0.639919	0.0005			
rem life(abs)	6.6735E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03 0.0006	6.8521E+03	0.0004			

source points generated 4932

estimator	cycle	953	ave of	903 cycles	combination
simple average	combined average			corr	
k(collision)	0.660356		0.639854	0.0006	k(col/abs)
0.639888 0.0005	0.639893	0.0005	0.8345		
k(absorption)	0.666723		0.639921	0.0005	k(abs/tk ln)
0.640007 0.0005	0.639963	0.0005	0.4095		
k(trk length)	0.645262		0.640094	0.0007	k(tk ln/col)
0.639974 0.0006	0.639905	0.0005	0.5334		
rem life(col)	6.8245E+03		6.8472E+03	0.0007	k(col/abs/tk ln)
0.639956 0.0005	0.639943	0.0005			
rem life(abs)	6.8126E+03		6.8469E+03	0.0006	life(col/abs/tl)
6.8482E+03 0.0006	6.8519E+03	0.0004			

source points generated 5254

estimator	cycle	954	ave of	904 cycles	combination
simple average	combined average			corr	
k(collision)	0.645072		0.639860	0.0005	k(col/abs)
0.639894 0.0005	0.639900	0.0005	0.8345		
k(absorption)	0.645924		0.639927	0.0005	k(abs/tk ln)
0.640010 0.0005	0.639968	0.0005	0.4093		
k(trk length)	0.639030		0.640093	0.0007	k(tk ln/col)
0.639976 0.0006	0.639909	0.0005	0.5333		
rem life(col)	6.8038E+03		6.8471E+03	0.0007	k(col/abs/tk ln)
0.639960 0.0005	0.639948	0.0005			
rem life(abs)	6.7846E+03		6.8469E+03	0.0006	life(col/abs/tl)
6.8482E+03 0.0006	6.8519E+03	0.0004			

source points generated 4815

estimator	cycle	955	ave of	905 cycles	combination
simple average	combined average			corr	
k(collision)	0.631221		0.639851	0.0005	k(col/abs)
0.639879 0.0005	0.639884	0.0005	0.8344		
k(absorption)	0.622636		0.639908	0.0005	k(abs/tk ln)
0.640009 0.0005	0.639958	0.0005	0.4065		
k(trk length)	0.655235		0.640109	0.0007	k(tk ln/col)
0.639980 0.0006	0.639905	0.0005	0.5318		
rem life(col)	7.0110E+03		6.8473E+03	0.0007	k(col/abs/tk ln)
0.639956 0.0005	0.639938	0.0005			

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rem life(abs)    7.0494E+03    6.8471E+03 0.0006    life(col/abs/tl)
6.8484E+03 0.0006    6.8521E+03 0.0004
source points generated    4881

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estimator    cycle    956    ave of    906 cycles    combination
simple average    combined average    corr
k(collision)    0.625775    0.639835 0.0005    k(col/abs)
0.639863 0.0005    0.639868 0.0005    0.8348
k(absorption)    0.624426    0.639891 0.0005    k(abs/tk ln)
0.639998 0.0005    0.639945 0.0005    0.4064
k(trk length)    0.636156    0.640105 0.0007    k(tk ln/col)
0.639970 0.0006    0.639892 0.0005    0.5317
rem life(col)    6.9752E+03    6.8474E+03 0.0006    k(col/abs/tk ln)
0.639944 0.0005    0.639924 0.0005
rem life(abs)    6.9813E+03    6.8472E+03 0.0006    life(col/abs/tl)
6.8485E+03 0.0006    6.8522E+03 0.0004
source points generated    4998

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estimator    cycle    957    ave of    907 cycles    combination
simple average    combined average    corr
k(collision)    0.614840    0.639807 0.0006    k(col/abs)
0.639840 0.0005    0.639846 0.0005    0.8353
k(absorption)    0.622637    0.639872 0.0005    k(abs/tk ln)
0.639981 0.0005    0.639926 0.0005    0.4074
k(trk length)    0.625513    0.640089 0.0007    k(tk ln/col)
0.639948 0.0006    0.639868 0.0005    0.5324
rem life(col)    7.0787E+03    6.8477E+03 0.0007    k(col/abs/tk ln)
0.639923 0.0005    0.639905 0.0005
rem life(abs)    7.0813E+03    6.8475E+03 0.0006    life(col/abs/tl)
6.8487E+03 0.0006    6.8524E+03 0.0004
source points generated    4875

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estimator    cycle    958    ave of    908 cycles    combination
simple average    combined average    corr
k(collision)    0.642955    0.639811 0.0005    k(col/abs)
0.639847 0.0005    0.639853 0.0005    0.8352
k(absorption)    0.649384    0.639883 0.0005    k(abs/tk ln)
0.639991 0.0005    0.639937 0.0005    0.4078
k(trk length)    0.649900    0.640100 0.0007    k(tk ln/col)
0.639955 0.0006    0.639873 0.0005    0.5325
rem life(col)    6.8044E+03    6.8476E+03 0.0006    k(col/abs/tk ln)
0.639931 0.0005    0.639914 0.0005
rem life(abs)    6.8235E+03    6.8475E+03 0.0006    life(col/abs/tl)
6.8487E+03 0.0006    6.8523E+03 0.0004
source points generated    5207

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estimator    cycle    959    ave of    909 cycles    combination
simple average    combined average    corr
k(collision)    0.631379    0.639802 0.0005    k(col/abs)
0.639840 0.0005    0.639847 0.0005    0.8352
k(absorption)    0.635501    0.639878 0.0005    k(abs/tk ln)
0.639995 0.0005    0.639936 0.0005    0.4073
k(trk length)    0.651197    0.640112 0.0007    k(tk ln/col)
0.639957 0.0006    0.639868 0.0005    0.5314

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rem life(col)	6.7176E+03	6.8475E+03	0.0006	k(col/abs/tk ln)
0.639931 0.0005	0.639912	0.0005		
rem life(abs)	6.6998E+03	6.8473E+03	0.0006	life(col/abs/tl)
6.8486E+03 0.0006	6.8524E+03	0.0004		
source points generated	4945			

estimator	cycle	960	ave of	910 cycles	combination
simple average		combined average		corr	
k(collision)	0.633950		0.639795	0.0005	k(col/abs)
0.639834 0.0005	0.639841	0.0005	0.8352		
k(absorption)	0.634936		0.639872	0.0005	k(abs/tk ln)
0.640006 0.0005	0.639939	0.0005	0.4056		
k(trk length)	0.664696		0.640139	0.0007	k(tk ln/col)
0.639967 0.0006	0.639869	0.0005	0.5294		
rem life(col)	6.8133E+03	6.8475E+03	0.0006	k(col/abs/tk ln)	
0.639936 0.0005	0.639913	0.0005			
rem life(abs)	6.8048E+03	6.8473E+03	0.0006	life(col/abs/tl)	
6.8486E+03 0.0006	6.8524E+03	0.0004			
source points generated	4994				

estimator	cycle	961	ave of	911 cycles	combination
simple average		combined average		corr	
k(collision)	0.642963		0.639799	0.0005	k(col/abs)
0.639837 0.0005	0.639843	0.0005	0.8352		
k(absorption)	0.641561		0.639874	0.0005	k(abs/tk ln)
0.640008 0.0005	0.639941	0.0005	0.4057		
k(trk length)	0.642278		0.640141	0.0007	k(tk ln/col)
0.639970 0.0006	0.639872	0.0005	0.5294		
rem life(col)	6.9161E+03	6.8475E+03	0.0006	k(col/abs/tk ln)	
0.639938 0.0005	0.639915	0.0005			
rem life(abs)	6.8994E+03	6.8473E+03	0.0006	life(col/abs/tl)	
6.8486E+03 0.0006	6.8525E+03	0.0004			
source points generated	5128				

estimator	cycle	962	ave of	912 cycles	combination
simple average		combined average		corr	
k(collision)	0.637643		0.639796	0.0005	k(col/abs)
0.639841 0.0005	0.639848	0.0005	0.8346		
k(absorption)	0.649679		0.639885	0.0005	k(abs/tk ln)
0.640018 0.0005	0.639951	0.0005	0.4060		
k(trk length)	0.649280		0.640151	0.0007	k(tk ln/col)
0.639974 0.0006	0.639872	0.0005	0.5291		
rem life(col)	6.7982E+03	6.8475E+03	0.0006	k(col/abs/tk ln)	
0.639944 0.0005	0.639922	0.0005			
rem life(abs)	6.7792E+03	6.8472E+03	0.0006	life(col/abs/tl)	
6.8486E+03 0.0006	6.8524E+03	0.0004			
source points generated	4986				

estimator	cycle	963	ave of	913 cycles	combination
simple average		combined average		corr	
k(collision)	0.636737		0.639793	0.0005	k(col/abs)
0.639833 0.0005	0.639840	0.0005	0.8343		
k(absorption)	0.628693		0.639873	0.0005	k(abs/tk ln)
0.640011 0.0005	0.639942	0.0005	0.4060		

k(trk length)	0.637405	0.640148	0.0007	k(tk ln/col)
0.639971 0.0006	0.639869	0.0005	0.5292	
rem life(col)	6.7244E+03	6.8473E+03	0.0006	k(col/abs/tk ln)
0.639938 0.0005	0.639914	0.0005		
rem life(abs)	6.7505E+03	6.8471E+03	0.0006	life(col/abs/tl)
6.8484E+03 0.0006	6.8523E+03	0.0004		
source points generated	4986			

estimator	cycle	964	ave of	914 cycles	combination
simple average	combined average		corr		
k(collision)	0.651146		0.639805	0.0005	k(col/abs)
0.639848 0.0005	0.639855	0.0005	0.8345		
k(absorption)	0.655591		0.639890	0.0005	k(abs/tk ln)
0.640014 0.0005	0.639952	0.0005	0.4042		
k(trk length)	0.630274		0.640138	0.0007	k(tk ln/col)
0.639971 0.0006	0.639877	0.0005	0.5279		
rem life(col)	6.7232E+03		6.8472E+03	0.0006	k(col/abs/tk ln)
0.639944 0.0005	0.639925	0.0005			
rem life(abs)	6.7082E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03 0.0006	6.8522E+03	0.0004			
source points generated	5107				

estimator	cycle	965	ave of	915 cycles	combination
simple average	combined average		corr		
k(collision)	0.636357		0.639802	0.0005	k(col/abs)
0.639852 0.0005	0.639860	0.0005	0.8335		
k(absorption)	0.651349		0.639903	0.0005	k(abs/tk ln)
0.640026 0.0005	0.639965	0.0005	0.4048		
k(trk length)	0.651866		0.640150	0.0007	k(tk ln/col)
0.639976 0.0006	0.639877	0.0005	0.5274		
rem life(col)	6.9068E+03		6.8473E+03	0.0006	k(col/abs/tk ln)
0.639952 0.0005	0.639933	0.0005			
rem life(abs)	6.8946E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8484E+03 0.0006	6.8522E+03	0.0004			
source points generated	4904				

estimator	cycle	966	ave of	916 cycles	combination
simple average	combined average		corr		
k(collision)	0.653191		0.639816	0.0005	k(col/abs)
0.639857 0.0005	0.639863	0.0005	0.8320		
k(absorption)	0.634988		0.639897	0.0005	k(abs/tk ln)
0.640021 0.0005	0.639959	0.0005	0.4049		
k(trk length)	0.635483		0.640145	0.0007	k(tk ln/col)
0.639981 0.0006	0.639887	0.0005	0.5264		
rem life(col)	6.7824E+03		6.8472E+03	0.0006	k(col/abs/tk ln)
0.639953 0.0005	0.639932	0.0005			
rem life(abs)	6.8087E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03 0.0006	6.8521E+03	0.0004			
source points generated	5146				

estimator	cycle	967	ave of	917 cycles	combination
simple average	combined average		corr		
k(collision)	0.653820		0.639832	0.0005	k(col/abs)
0.639874 0.0005	0.639881	0.0005	0.8324		

k(absorption)	0.657268	0.639916	0.0005	k(abs/tk ln)
0.640028	0.0005	0.639973	0.0005	0.4037
k(trk length)	0.636015	0.640141	0.0007	k(tk ln/col)
0.639986	0.0006	0.639899	0.0005	0.5255
rem life(col)	6.7448E+03	6.8471E+03	0.0006	k(col/abs/tk ln)
0.639963	0.0005	0.639946	0.0005	
rem life(abs)	6.7344E+03	6.8469E+03	0.0006	life(col/abs/tl)
6.8482E+03	0.0006	6.8520E+03	0.0004	
source points generated	5028			

estimator	cycle	968	ave of	918 cycles	combination
simple average	combined average		corr		
k(collision)	0.639600	0.639831	0.0005	k(col/abs)	
0.639878	0.0005	0.639885	0.0005	0.8321	
k(absorption)	0.647744	0.639925	0.0005	k(abs/tk ln)	
0.640036	0.0005	0.639981	0.0005	0.4039	
k(trk length)	0.646375	0.640148	0.0007	k(tk ln/col)	
0.639989	0.0006	0.639900	0.0005	0.5254	
rem life(col)	6.7260E+03	6.8470E+03	0.0006	k(col/abs/tk ln)	
0.639968	0.0005	0.639952	0.0005		
rem life(abs)	6.7189E+03	6.8467E+03	0.0006	life(col/abs/tl)	
6.8480E+03	0.0006	6.8518E+03	0.0004		
source points generated	4893				

estimator	cycle	969	ave of	919 cycles	combination
simple average	combined average		corr		
k(collision)	0.643847	0.639836	0.0005	k(col/abs)	
0.639876	0.0005	0.639882	0.0005	0.8315	
k(absorption)	0.632393	0.639916	0.0005	k(abs/tk ln)	
0.640044	0.0005	0.639981	0.0005	0.4021	
k(trk length)	0.661378	0.640171	0.0007	k(tk ln/col)	
0.640003	0.0006	0.639908	0.0005	0.5253	
rem life(col)	6.9778E+03	6.8471E+03	0.0006	k(col/abs/tk ln)	
0.639974	0.0005	0.639953	0.0005		
rem life(abs)	6.9966E+03	6.8469E+03	0.0006	life(col/abs/tl)	
6.8482E+03	0.0006	6.8519E+03	0.0004		
source points generated	5029				

estimator	cycle	970	ave of	920 cycles	combination
simple average	combined average		corr		
k(collision)	0.646925	0.639843	0.0005	k(col/abs)	
0.639888	0.0005	0.639895	0.0005	0.8314	
k(absorption)	0.655424	0.639933	0.0005	k(abs/tk ln)	
0.640057	0.0005	0.639996	0.0005	0.4025	
k(trk length)	0.648902	0.640180	0.0007	k(tk ln/col)	
0.640012	0.0006	0.639916	0.0005	0.5255	
rem life(col)	6.9554E+03	6.8472E+03	0.0006	k(col/abs/tk ln)	
0.639986	0.0005	0.639966	0.0005		
rem life(abs)	6.9328E+03	6.8470E+03	0.0006	life(col/abs/tl)	
6.8483E+03	0.0006	6.8520E+03	0.0004		
source points generated	5009				

estimator	cycle	971	ave of	921 cycles	combination
simple average	combined average		corr		

k(collision)	0.651556	0.639856	0.0005	k(col/abs)
0.639901	0.0005	0.639908	0.0005	0.8316
k(absorption)	0.652249	0.639947	0.0005	k(abs/tk ln)
0.640061	0.0005	0.640005	0.0005	0.4017
k(trk length)	0.635044	0.640175	0.0007	k(tk ln/col)
0.640015	0.0006	0.639925	0.0005	0.5247
rem life(col)	6.8395E+03	6.8472E+03	0.0006	k(col/abs/tk ln)
0.639992	0.0005	0.639975	0.0005	
rem life(abs)	6.8623E+03	6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0006	6.8520E+03	0.0004	
source points generated	5006			

estimator	cycle	972	ave of	922 cycles	combination
simple average	combined	average	corr		
k(collision)	0.646649	0.639863	0.0005	k(col/abs)	
0.639910	0.0005	0.639917	0.0005	0.8317	
k(absorption)	0.648284	0.639956	0.0005	k(abs/tk ln)	
0.640072	0.0005	0.640015	0.0005	0.4022	
k(trk length)	0.653209	0.640189	0.0007	k(tk ln/col)	
0.640026	0.0006	0.639934	0.0005	0.5250	
rem life(col)	6.8740E+03	6.8472E+03	0.0006	k(col/abs/tk ln)	
0.640003	0.0005	0.639985	0.0005		
rem life(abs)	6.8409E+03	6.8470E+03	0.0006	life(col/abs/tl)	
6.8483E+03	0.0006	6.8519E+03	0.0004		
source points generated	5034				

estimator	cycle	973	ave of	923 cycles	combination
simple average	combined	average	corr		
k(collision)	0.662051	0.639887	0.0005	k(col/abs)	
0.639931	0.0005	0.639938	0.0005	0.8322	
k(absorption)	0.657224	0.639974	0.0005	k(abs/tk ln)	
0.640092	0.0005	0.640034	0.0005	0.4036	
k(trk length)	0.659435	0.640210	0.0007	k(tk ln/col)	
0.640049	0.0006	0.639958	0.0005	0.5263	
rem life(col)	6.7898E+03	6.8472E+03	0.0006	k(col/abs/tk ln)	
0.640024	0.0005	0.640006	0.0005		
rem life(abs)	6.7963E+03	6.8469E+03	0.0006	life(col/abs/tl)	
6.8482E+03	0.0006	6.8519E+03	0.0004		
source points generated	5104				

estimator	cycle	974	ave of	924 cycles	combination
simple average	combined	average	corr		
k(collision)	0.646103	0.639894	0.0005	k(col/abs)	
0.639941	0.0005	0.639949	0.0005	0.8322	
k(absorption)	0.653223	0.639989	0.0005	k(abs/tk ln)	
0.640100	0.0005	0.640045	0.0005	0.4035	
k(trk length)	0.641974	0.640211	0.0007	k(tk ln/col)	
0.640053	0.0006	0.639963	0.0005	0.5263	
rem life(col)	6.7226E+03	6.8470E+03	0.0006	k(col/abs/tk ln)	
0.640031	0.0005	0.640016	0.0005		
rem life(abs)	6.7176E+03	6.8468E+03	0.0006	life(col/abs/tl)	
6.8481E+03	0.0006	6.8517E+03	0.0004		
source points generated	4862				

estimator	cycle	975	ave of	925 cycles	combination
simple average	combined average		corr		
k(collision)	0.634772		0.639889	0.0005	k(col/abs)
0.639936	0.0005	0.639944	0.0005	0.8322	
k(absorption)	0.635483		0.639984	0.0005	k(abs/tk ln)
0.640103	0.0005	0.640045	0.0005	0.4029	
k(trk length)	0.650791		0.640223	0.0007	k(tk ln/col)
0.640056	0.0006	0.639961	0.0005	0.5257	
rem life(col)	6.8241E+03		6.8470E+03	0.0006	k(col/abs/tk ln)
0.640032	0.0005	0.640014	0.0005		
rem life(abs)	6.8660E+03		6.8468E+03	0.0006	life(col/abs/tl)
6.8480E+03	0.0006	6.8516E+03	0.0004		
source points generated		4931			

estimator	cycle	976	ave of	926 cycles	combination
simple average	combined average		corr		
k(collision)	0.650612		0.639900	0.0005	k(col/abs)
0.639948	0.0005	0.639955	0.0005	0.8324	
k(absorption)	0.650837		0.639996	0.0005	k(abs/tk ln)
0.640110	0.0005	0.640054	0.0005	0.4028	
k(trk length)	0.641528		0.640224	0.0007	k(tk ln/col)
0.640062	0.0006	0.639971	0.0005	0.5255	
rem life(col)	6.7222E+03		6.8469E+03	0.0006	k(col/abs/tk ln)
0.640040	0.0005	0.640024	0.0005		
rem life(abs)	6.7407E+03		6.8467E+03	0.0006	life(col/abs/tl)
6.8479E+03	0.0006	6.8515E+03	0.0004		
source points generated		5142			

estimator	cycle	977	ave of	927 cycles	combination
simple average	combined average		corr		
k(collision)	0.646300		0.639907	0.0005	k(col/abs)
0.639951	0.0005	0.639958	0.0005	0.8322	
k(absorption)	0.639735		0.639995	0.0005	k(abs/tk ln)
0.640109	0.0005	0.640053	0.0005	0.4028	
k(trk length)	0.639147		0.640223	0.0007	k(tk ln/col)
0.640065	0.0006	0.639976	0.0005	0.5253	
rem life(col)	6.9004E+03		6.8469E+03	0.0006	k(col/abs/tk ln)
0.640042	0.0005	0.640025	0.0005		
rem life(abs)	6.9321E+03		6.8468E+03	0.0006	life(col/abs/tl)
6.8480E+03	0.0006	6.8515E+03	0.0004		
source points generated		4957			

estimator	cycle	978	ave of	928 cycles	combination
simple average	combined average		corr		
k(collision)	0.634406		0.639901	0.0005	k(col/abs)
0.639947	0.0005	0.639954	0.0005	0.8322	
k(absorption)	0.637646		0.639993	0.0005	k(abs/tk ln)
0.640099	0.0005	0.640047	0.0005	0.4028	
k(trk length)	0.623486		0.640205	0.0007	k(tk ln/col)
0.640053	0.0006	0.639967	0.0005	0.5255	
rem life(col)	6.8622E+03		6.8470E+03	0.0006	k(col/abs/tk ln)
0.640033	0.0005	0.640018	0.0005		
rem life(abs)	6.8330E+03		6.8468E+03	0.0006	life(col/abs/tl)
6.8480E+03	0.0006	6.8516E+03	0.0004		

source points generated 4950

estimator	cycle	979	ave of	929 cycles	combination
simple average	combined average		corr		
k(collision)	0.630007		0.639891	0.0005	k(col/abs)
0.639940	0.0005	0.639948	0.0005	0.8321	
k(absorption)	0.636833		0.639989	0.0005	k(abs/tk ln)
0.640098	0.0005	0.640044	0.0005	0.4027	
k(trk length)	0.640966		0.640206	0.0007	k(tk ln/col)
0.640048	0.0006	0.639960	0.0005	0.5252	
rem life(col)	6.8638E+03		6.8470E+03	0.0006	k(col/abs/tk ln)
0.640029	0.0005	0.640014	0.0005		
rem life(abs)	6.8642E+03		6.8468E+03	0.0006	life(col/abs/tl)
6.8480E+03	0.0006	6.8516E+03	0.0004		

source points generated 4931

estimator	cycle	980	ave of	930 cycles	combination
simple average	combined average		corr		
k(collision)	0.639608		0.639890	0.0005	k(col/abs)
0.639940	0.0005	0.639948	0.0005	0.8320	
k(absorption)	0.641158		0.639991	0.0005	k(abs/tk ln)
0.640103	0.0005	0.640048	0.0005	0.4027	
k(trk length)	0.649805		0.640216	0.0007	k(tk ln/col)
0.640053	0.0006	0.639962	0.0005	0.5251	
rem life(col)	6.8259E+03		6.8470E+03	0.0006	k(col/abs/tk ln)
0.640032	0.0005	0.640017	0.0005		
rem life(abs)	6.8228E+03		6.8468E+03	0.0006	life(col/abs/tl)
6.8480E+03	0.0006	6.8516E+03	0.0004		

source points generated 5062

estimator	cycle	981	ave of	931 cycles	combination
simple average	combined average		corr		
k(collision)	0.635952		0.639886	0.0005	k(col/abs)
0.639933	0.0005	0.639941	0.0005	0.8320	
k(absorption)	0.630498		0.639980	0.0005	k(abs/tk ln)
0.640094	0.0005	0.640038	0.0005	0.4031	
k(trk length)	0.631623		0.640207	0.0007	k(tk ln/col)
0.640047	0.0006	0.639956	0.0005	0.5252	
rem life(col)	6.9147E+03		6.8470E+03	0.0006	k(col/abs/tk ln)
0.640025	0.0005	0.640008	0.0005		
rem life(abs)	6.9266E+03		6.8469E+03	0.0006	life(col/abs/tl)
6.8481E+03	0.0006	6.8517E+03	0.0004		

source points generated 4944

estimator	cycle	982	ave of	932 cycles	combination
simple average	combined average		corr		
k(collision)	0.658646		0.639906	0.0005	k(col/abs)
0.639951	0.0005	0.639958	0.0005	0.8323	
k(absorption)	0.653660		0.639995	0.0005	k(abs/tk ln)
0.640097	0.0005	0.640047	0.0005	0.4019	
k(trk length)	0.633066		0.640199	0.0007	k(tk ln/col)
0.640053	0.0006	0.639971	0.0005	0.5232	
rem life(col)	6.6412E+03		6.8468E+03	0.0006	k(col/abs/tk ln)
0.640034	0.0005	0.640020	0.0005		

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rem life(abs)    6.6291E+03    6.8466E+03 0.0006    life(col/abs/tl)
6.8479E+03 0.0006    6.8516E+03 0.0004
source points generated    5182

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estimator    cycle    983    ave of    933 cycles    combination
simple average    combined average    corr
k(collision)    0.626967    0.639892 0.0005    k(col/abs)
0.639937 0.0005    0.639944 0.0005    0.8326
k(absorption)    0.627356    0.639982 0.0005    k(abs/tk ln)
0.640080 0.0005    0.640031 0.0005    0.4030
k(trk length)    0.619844    0.640178 0.0007    k(tk ln/col)
0.640035 0.0006    0.639955 0.0005    0.5241
rem life(col)    6.9230E+03    6.8469E+03 0.0006    k(col/abs/tk ln)
0.640017 0.0005    0.640004 0.0005
rem life(abs)    6.9330E+03    6.8467E+03 0.0006    life(col/abs/tl)
6.8480E+03 0.0006    6.8517E+03 0.0004
source points generated    4820

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estimator    cycle    984    ave of    934 cycles    combination
simple average    combined average    corr
k(collision)    0.645502    0.639898 0.0005    k(col/abs)
0.639942 0.0005    0.639949 0.0005    0.8326
k(absorption)    0.644527    0.639986 0.0005    k(abs/tk ln)
0.640077 0.0005    0.640033 0.0005    0.4026
k(trk length)    0.631420    0.640168 0.0007    k(tk ln/col)
0.640033 0.0006    0.639958 0.0005    0.5236
rem life(col)    6.7196E+03    6.8468E+03 0.0006    k(col/abs/tk ln)
0.640018 0.0005    0.640006 0.0005
rem life(abs)    6.7264E+03    6.8466E+03 0.0006    life(col/abs/tl)
6.8479E+03 0.0006    6.8517E+03 0.0004
source points generated    5144

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estimator    cycle    985    ave of    935 cycles    combination
simple average    combined average    corr
k(collision)    0.646049    0.639905 0.0005    k(col/abs)
0.639950 0.0005    0.639957 0.0005    0.8327
k(absorption)    0.647363    0.639994 0.0005    k(abs/tk ln)
0.640087 0.0005    0.640041 0.0005    0.4029
k(trk length)    0.650000    0.640179 0.0007    k(tk ln/col)
0.640042 0.0006    0.639965 0.0005    0.5238
rem life(col)    7.1031E+03    6.8470E+03 0.0006    k(col/abs/tk ln)
0.640026 0.0005    0.640015 0.0005
rem life(abs)    7.0880E+03    6.8469E+03 0.0006    life(col/abs/tl)
6.8481E+03 0.0006    6.8517E+03 0.0004
source points generated    5008

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estimator    cycle    986    ave of    936 cycles    combination
simple average    combined average    corr
k(collision)    0.611872    0.639875 0.0005    k(col/abs)
0.639921 0.0005    0.639928 0.0005    0.8339
k(absorption)    0.614117    0.639967 0.0005    k(abs/tk ln)
0.640065 0.0005    0.640017 0.0005    0.4040
k(trk length)    0.626291    0.640164 0.0007    k(tk ln/col)
0.640019 0.0006    0.639939 0.0005    0.5243

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rem life(col)	7.0454E+03	6.8472E+03	0.0006	k(col/abs/tk ln)
0.640002 0.0005	0.639990	0.0005		
rem life(abs)	7.0094E+03	6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03 0.0006	6.8518E+03	0.0004		
source points generated	4735			

estimator	cycle	987	ave of	937 cycles	combination
simple average	combined average		corr		
k(collision)	0.635155		0.639870	0.0005	k(col/abs)
0.639917 0.0005	0.639925	0.0005	0.8338		
k(absorption)	0.638024		0.639965	0.0005	k(abs/tk ln)
0.640062 0.0005	0.640015	0.0005	0.4040		
k(trk length)	0.636149		0.640160	0.0007	k(tk ln/col)
0.640015 0.0006	0.639934	0.0005	0.5244		
rem life(col)	6.7846E+03		6.8472E+03	0.0006	k(col/abs/tk ln)
0.639998 0.0005	0.639987	0.0005			
rem life(abs)	6.7942E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8482E+03 0.0006	6.8518E+03	0.0004			
source points generated	5182				

estimator	cycle	988	ave of	938 cycles	combination
simple average	combined average		corr		
k(collision)	0.635220		0.639865	0.0005	k(col/abs)
0.639915 0.0005	0.639923	0.0005	0.8338		
k(absorption)	0.640066		0.639965	0.0005	k(abs/tk ln)
0.640054 0.0005	0.640010	0.0005	0.4037		
k(trk length)	0.624171		0.640143	0.0007	k(tk ln/col)
0.640004 0.0006	0.639927	0.0005	0.5245		
rem life(col)	6.9355E+03		6.8473E+03	0.0006	k(col/abs/tk ln)
0.639991 0.0005	0.639982	0.0005			
rem life(abs)	6.9022E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03 0.0006	6.8518E+03	0.0004			
source points generated	5004				

estimator	cycle	989	ave of	939 cycles	combination
simple average	combined average		corr		
k(collision)	0.626537		0.639851	0.0005	k(col/abs)
0.639902 0.0005	0.639910	0.0005	0.8340		
k(absorption)	0.628360		0.639952	0.0005	k(abs/tk ln)
0.640043 0.0005	0.639999	0.0005	0.4042		
k(trk length)	0.631055		0.640133	0.0007	k(tk ln/col)
0.639992 0.0006	0.639913	0.0005	0.5248		
rem life(col)	6.9045E+03		6.8473E+03	0.0006	k(col/abs/tk ln)
0.639979 0.0005	0.639970	0.0005			
rem life(abs)	6.9206E+03		6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03 0.0006	6.8518E+03	0.0004			
source points generated	4881				

estimator	cycle	990	ave of	940 cycles	combination
simple average	combined average		corr		
k(collision)	0.639334		0.639850	0.0005	k(col/abs)
0.639902 0.0005	0.639910	0.0005	0.8340		
k(absorption)	0.640991		0.639953	0.0005	k(abs/tk ln)
0.640039 0.0005	0.639997	0.0005	0.4040		

k(trk length)	0.631918	0.640124	0.0007	k(tk ln/col)
0.639987	0.0005	0.639911	0.0005	0.5248
rem life(col)	6.8354E+03	6.8473E+03	0.0006	k(col/abs/tk ln)
0.639976	0.0005	0.639969	0.0005	
rem life(abs)	6.8163E+03	6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0006	6.8519E+03	0.0004	
source points generated	5128			

estimator	cycle	991	ave of	941 cycles	combination
simple average	combined average		corr		
k(collision)	0.632068		0.639842	0.0005	k(col/abs)
0.639894	0.0005	0.639902	0.0005	0.8341	
k(absorption)	0.632162		0.639945	0.0005	k(abs/tk ln)
0.640031	0.0005	0.639989	0.0005	0.4042	
k(trk length)	0.633711		0.640117	0.0007	k(tk ln/col)
0.639980	0.0005	0.639903	0.0005	0.5249	
rem life(col)	6.7693E+03		6.8472E+03	0.0006	k(col/abs/tk ln)
0.639968	0.0005	0.639961	0.0005		
rem life(abs)	6.7840E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0006	6.8519E+03	0.0004		
source points generated	4922				

estimator	cycle	992	ave of	942 cycles	combination
simple average	combined average		corr		
k(collision)	0.636438		0.639838	0.0005	k(col/abs)
0.639888	0.0005	0.639896	0.0005	0.8341	
k(absorption)	0.632374		0.639937	0.0005	k(abs/tk ln)
0.640027	0.0005	0.639983	0.0005	0.4041	
k(trk length)	0.640542		0.640118	0.0007	k(tk ln/col)
0.639978	0.0005	0.639900	0.0005	0.5249	
rem life(col)	6.8883E+03		6.8473E+03	0.0006	k(col/abs/tk ln)
0.639964	0.0005	0.639955	0.0005		
rem life(abs)	6.9160E+03		6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0006	6.8519E+03	0.0004		
source points generated	5034				

estimator	cycle	993	ave of	943 cycles	combination
simple average	combined average		corr		
k(collision)	0.652074		0.639851	0.0005	k(col/abs)
0.639897	0.0005	0.639905	0.0005	0.8340	
k(absorption)	0.646024		0.639944	0.0005	k(abs/tk ln)
0.640030	0.0005	0.639988	0.0005	0.4039	
k(trk length)	0.638534		0.640116	0.0007	k(tk ln/col)
0.639984	0.0005	0.639910	0.0005	0.5243	
rem life(col)	6.9167E+03		6.8473E+03	0.0006	k(col/abs/tk ln)
0.639970	0.0005	0.639962	0.0005		
rem life(abs)	6.9189E+03		6.8472E+03	0.0006	life(col/abs/tl)
6.8484E+03	0.0006	6.8520E+03	0.0004		
source points generated	5097				

estimator	cycle	994	ave of	944 cycles	combination
simple average	combined average		corr		
k(collision)	0.636039		0.639847	0.0005	k(col/abs)
0.639893	0.0005	0.639900	0.0005	0.8341	

k(absorption)	0.634435	0.639938	0.0005	k(abs/tk ln)
0.640029	0.0005	0.639984	0.0005	0.4037
k(trk length)	0.643139	0.640119	0.0007	k(tk ln/col)
0.639983	0.0005	0.639908	0.0005	0.5242
rem life(col)	7.0272E+03	6.8475E+03	0.0006	k(col/abs/tk ln)
0.639968	0.0005	0.639958	0.0005	
rem life(abs)	7.0233E+03	6.8473E+03	0.0006	life(col/abs/tl)
6.8486E+03	0.0006	6.8521E+03	0.0004	
source points generated	4878			

estimator	cycle	995	ave of	945 cycles	combination
simple average	combined average		corr		
k(collision)	0.641581	0.639849	0.0005	k(col/abs)	
0.639894	0.0005	0.639902	0.0005	0.8341	
k(absorption)	0.641255	0.639939	0.0005	k(abs/tk ln)	
0.640029	0.0005	0.639985	0.0005	0.4037	
k(trk length)	0.639157	0.640118	0.0007	k(tk ln/col)	
0.639984	0.0005	0.639909	0.0005	0.5242	
rem life(col)	6.8029E+03	6.8475E+03	0.0006	k(col/abs/tk ln)	
0.639969	0.0005	0.639959	0.0005		
rem life(abs)	6.8175E+03	6.8473E+03	0.0006	life(col/abs/tl)	
6.8485E+03	0.0006	6.8520E+03	0.0004		
source points generated	5093				

estimator	cycle	996	ave of	946 cycles	combination
simple average	combined average		corr		
k(collision)	0.629370	0.639838	0.0005	k(col/abs)	
0.639884	0.0005	0.639892	0.0005	0.8342	
k(absorption)	0.631812	0.639931	0.0005	k(abs/tk ln)	
0.640027	0.0005	0.639980	0.0005	0.4033	
k(trk length)	0.644828	0.640123	0.0007	k(tk ln/col)	
0.639981	0.0005	0.639902	0.0005	0.5235	
rem life(col)	6.8619E+03	6.8475E+03	0.0006	k(col/abs/tk ln)	
0.639964	0.0005	0.639953	0.0005		
rem life(abs)	6.8859E+03	6.8474E+03	0.0006	life(col/abs/tl)	
6.8486E+03	0.0005	6.8521E+03	0.0004		
source points generated	4914				

estimator	cycle	997	ave of	947 cycles	combination
simple average	combined average		corr		
k(collision)	0.633025	0.639831	0.0005	k(col/abs)	
0.639875	0.0005	0.639883	0.0005	0.8342	
k(absorption)	0.629695	0.639920	0.0005	k(abs/tk ln)	
0.640022	0.0005	0.639972	0.0005	0.4030	
k(trk length)	0.641547	0.640125	0.0007	k(tk ln/col)	
0.639978	0.0005	0.639897	0.0005	0.5234	
rem life(col)	6.9436E+03	6.8476E+03	0.0006	k(col/abs/tk ln)	
0.639958	0.0005	0.639946	0.0005		
rem life(abs)	6.9597E+03	6.8475E+03	0.0006	life(col/abs/tl)	
6.8486E+03	0.0005	6.8521E+03	0.0004		
source points generated	5055				

estimator	cycle	998	ave of	948 cycles	combination
simple average	combined average		corr		

k(collision)	0.629971	0.639820	0.0005	k(col/abs)
0.639864	0.0005	0.639871	0.0005	0.8344
k(absorption)	0.627765	0.639907	0.0005	k(abs/tk ln)
0.640018	0.0005	0.639964	0.0005	0.4024
k(trk length)	0.643439	0.640128	0.0007	k(tk ln/col)
0.639974	0.0005	0.639890	0.0005	0.5229
rem life(col)	7.0216E+03	6.8478E+03	0.0006	k(col/abs/tk ln)
0.639952	0.0005	0.639937	0.0005	
rem life(abs)	7.0009E+03	6.8476E+03	0.0006	life(col/abs/tl)
6.8488E+03	0.0005	6.8522E+03	0.0004	
source points generated	4986			

estimator	cycle 999	ave of 949 cycles	combination	
simple average	combined average	corr		
k(collision)	0.653218	0.639835	0.0005	k(col/abs)
0.639878	0.0005	0.639886	0.0005	0.8347
k(absorption)	0.654468	0.639922	0.0005	k(abs/tk ln)
0.640030	0.0005	0.639978	0.0005	0.4027
k(trk length)	0.648317	0.640137	0.0007	k(tk ln/col)
0.639986	0.0005	0.639903	0.0005	0.5231
rem life(col)	6.6872E+03	6.8476E+03	0.0006	k(col/abs/tk ln)
0.639965	0.0005	0.639951	0.0005	
rem life(abs)	6.6921E+03	6.8475E+03	0.0006	life(col/abs/tl)
6.8487E+03	0.0005	6.8521E+03	0.0004	
source points generated	5175			

estimator	cycle 1000	ave of 950 cycles	combination	
simple average	combined average	corr		
k(collision)	0.659208	0.639855	0.0005	k(col/abs)
0.639903	0.0005	0.639910	0.0005	0.8353
k(absorption)	0.666637	0.639950	0.0005	k(abs/tk ln)
0.640044	0.0005	0.639999	0.0005	0.4015
k(trk length)	0.640866	0.640138	0.0007	k(tk ln/col)
0.639996	0.0005	0.639919	0.0005	0.5223
rem life(col)	6.7713E+03	6.8475E+03	0.0006	k(col/abs/tk ln)
0.639981	0.0005	0.639972	0.0005	
rem life(abs)	6.7144E+03	6.8473E+03	0.0006	life(col/abs/tl)
6.8485E+03	0.0005	6.8520E+03	0.0004	
source points generated	5034			

estimator	cycle 1001	ave of 951 cycles	combination	
simple average	combined average	corr		
k(collision)	0.659291	0.639875	0.0005	k(col/abs)
0.639919	0.0005	0.639926	0.0005	0.8354
k(absorption)	0.651863	0.639963	0.0005	k(abs/tk ln)
0.640060	0.0005	0.640014	0.0005	0.4024
k(trk length)	0.658957	0.640157	0.0007	k(tk ln/col)
0.640016	0.0005	0.639940	0.0005	0.5235
rem life(col)	6.6195E+03	6.8473E+03	0.0006	k(col/abs/tk ln)
0.639999	0.0005	0.639988	0.0005	
rem life(abs)	6.6070E+03	6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0005	6.8519E+03	0.0004	
source points generated	4996			

estimator	cycle	1002	ave of	952 cycles	combination
simple average	combined average		corr		
k(collision)	0.643784		0.639879	0.0005	k(col/abs)
0.639922	0.0005	0.639929	0.0005	0.8354	
k(absorption)	0.642145		0.639965	0.0005	k(abs/tk ln)
0.640064	0.0005	0.640017	0.0005	0.4025	
k(trk length)	0.644533		0.640162	0.0007	k(tk ln/col)
0.640021	0.0005	0.639944	0.0005	0.5235	
rem life(col)	7.1295E+03		6.8476E+03	0.0006	k(col/abs/tk ln)
0.640002	0.0005	0.639991	0.0005		
rem life(abs)	7.1275E+03		6.8474E+03	0.0006	life(col/abs/tl)
6.8486E+03	0.0006	6.8520E+03	0.0004		
source points generated 4913					

estimator	cycle	1003	ave of	953 cycles	combination
simple average	combined average		corr		
k(collision)	0.641799		0.639881	0.0005	k(col/abs)
0.639924	0.0005	0.639931	0.0005	0.8354	
k(absorption)	0.641880		0.639967	0.0005	k(abs/tk ln)
0.640079	0.0005	0.640025	0.0005	0.4020	
k(trk length)	0.667244		0.640190	0.0007	k(tk ln/col)
0.640036	0.0005	0.639951	0.0005	0.5228	
rem life(col)	6.8802E+03		6.8476E+03	0.0006	k(col/abs/tk ln)
0.640013	0.0005	0.639999	0.0005		
rem life(abs)	6.8386E+03		6.8474E+03	0.0006	life(col/abs/tl)
6.8486E+03	0.0005	6.8521E+03	0.0004		
source points generated 4974					

estimator	cycle	1004	ave of	954 cycles	combination
simple average	combined average		corr		
k(collision)	0.641916		0.639884	0.0005	k(col/abs)
0.639930	0.0005	0.639938	0.0005	0.8353	
k(absorption)	0.649254		0.639977	0.0005	k(abs/tk ln)
0.640088	0.0005	0.640035	0.0005	0.4024	
k(trk length)	0.648575		0.640199	0.0007	k(tk ln/col)
0.640041	0.0005	0.639955	0.0005	0.5229	
rem life(col)	6.7607E+03		6.8475E+03	0.0006	k(col/abs/tk ln)
0.640020	0.0005	0.640006	0.0005		
rem life(abs)	6.7343E+03		6.8472E+03	0.0006	life(col/abs/tl)
6.8485E+03	0.0005	6.8519E+03	0.0004		
source points generated 5049					

estimator	cycle	1005	ave of	955 cycles	combination
simple average	combined average		corr		
k(collision)	0.638796		0.639882	0.0005	k(col/abs)
0.639929	0.0005	0.639936	0.0005	0.8353	
k(absorption)	0.637649		0.639975	0.0005	k(abs/tk ln)
0.640089	0.0005	0.640034	0.0005	0.4023	
k(trk length)	0.644523		0.640204	0.0007	k(tk ln/col)
0.640043	0.0005	0.639955	0.0005	0.5228	
rem life(col)	6.8059E+03		6.8475E+03	0.0006	k(col/abs/tk ln)
0.640020	0.0005	0.640006	0.0005		
rem life(abs)	6.8212E+03		6.8472E+03	0.0006	life(col/abs/tl)
6.8484E+03	0.0005	6.8519E+03	0.0004		

source points generated 4948

estimator	cycle	1006	ave of	956 cycles	combination
simple average	combined average		corr		
k(collision)	0.649510		0.639893	0.0005	k(col/abs)
0.639941	0.0005	0.639949	0.0005	0.8354	
k(absorption)	0.654661		0.639990	0.0005	k(abs/tk ln)
0.640103	0.0005	0.640048	0.0005	0.4029	
k(trk length)	0.651114		0.640215	0.0007	k(tk ln/col)
0.640054	0.0005	0.639965	0.0005	0.5231	
rem life(col)	6.7321E+03		6.8474E+03	0.0006	k(col/abs/tk ln)
0.640033	0.0005	0.640019	0.0005		
rem life(abs)	6.7111E+03		6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0005	6.8518E+03	0.0004		

source points generated 5104

estimator	cycle	1007	ave of	957 cycles	combination
simple average	combined average		corr		
k(collision)	0.654652		0.639908	0.0005	k(col/abs)
0.639957	0.0005	0.639964	0.0005	0.8357	
k(absorption)	0.654631		0.640005	0.0005	k(abs/tk ln)
0.640113	0.0005	0.640061	0.0005	0.4030	
k(trk length)	0.645249		0.640220	0.0007	k(tk ln/col)
0.640064	0.0005	0.639979	0.0005	0.5231	
rem life(col)	6.6403E+03		6.8472E+03	0.0006	k(col/abs/tk ln)
0.640045	0.0005	0.640032	0.0005		
rem life(abs)	6.6341E+03		6.8468E+03	0.0006	life(col/abs/tl)
6.8481E+03	0.0005	6.8517E+03	0.0004		

source points generated 5027

estimator	cycle	1008	ave of	958 cycles	combination
simple average	combined average		corr		
k(collision)	0.634020		0.639902	0.0005	k(col/abs)
0.639951	0.0005	0.639958	0.0005	0.8357	
k(absorption)	0.634833		0.640000	0.0005	k(abs/tk ln)
0.640110	0.0005	0.640057	0.0005	0.4029	
k(trk length)	0.639620		0.640220	0.0007	k(tk ln/col)
0.640061	0.0005	0.639974	0.0005	0.5230	
rem life(col)	6.9692E+03		6.8473E+03	0.0006	k(col/abs/tk ln)
0.640040	0.0005	0.640028	0.0005		
rem life(abs)	6.9631E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8482E+03	0.0005	6.8518E+03	0.0004		

source points generated 4830

estimator	cycle	1009	ave of	959 cycles	combination
simple average	combined average		corr		
k(collision)	0.638792		0.639901	0.0005	k(col/abs)
0.639948	0.0005	0.639955	0.0005	0.8357	
k(absorption)	0.635741		0.639995	0.0005	k(abs/tk ln)
0.640111	0.0005	0.640056	0.0005	0.4027	
k(trk length)	0.646226		0.640226	0.0007	k(tk ln/col)
0.640063	0.0005	0.639974	0.0005	0.5229	
rem life(col)	7.0615E+03		6.8475E+03	0.0006	k(col/abs/tk ln)
0.640041	0.0005	0.640026	0.0005		

rem life(abs) 7.0577E+03 6.8472E+03 0.0006 life(col/abs/tl)
6.8484E+03 0.0005 6.8519E+03 0.0004
source points generated 5063

estimator	cycle	1010	ave of	960 cycles	combination
simple average	combined average		corr		
k(collision)	0.637935		0.639899	0.0005	k(col/abs)
0.639947	0.0005	0.639954	0.0005	0.8357	
k(absorption)	0.640078		0.639995	0.0005	k(abs/tk ln)
0.640107	0.0005	0.640053	0.0005	0.4026	
k(trk length)	0.632332		0.640218	0.0007	k(tk ln/col)
0.640058	0.0005	0.639971	0.0005	0.5230	
rem life(col)	6.8334E+03		6.8475E+03	0.0006	k(col/abs/tk ln)
0.640037	0.0005	0.640024	0.0005		
rem life(abs)	6.8344E+03		6.8472E+03	0.0006	life(col/abs/tl)
6.8484E+03	0.0005	6.8520E+03	0.0004		
source points generated	4970				

estimator	cycle	1011	ave of	961 cycles	combination
simple average	combined average		corr		
k(collision)	0.630858		0.639889	0.0005	k(col/abs)
0.639941	0.0005	0.639949	0.0005	0.8356	
k(absorption)	0.636609		0.639992	0.0005	k(abs/tk ln)
0.640111	0.0005	0.640054	0.0005	0.4022	
k(trk length)	0.651130		0.640229	0.0007	k(tk ln/col)
0.640059	0.0005	0.639966	0.0005	0.5219	
rem life(col)	6.9828E+03		6.8476E+03	0.0006	k(col/abs/tk ln)
0.640037	0.0005	0.640023	0.0005		
rem life(abs)	6.9766E+03		6.8473E+03	0.0006	life(col/abs/tl)
6.8485E+03	0.0005	6.8519E+03	0.0004		
source points generated	4939				

estimator	cycle	1012	ave of	962 cycles	combination
simple average	combined average		corr		
k(collision)	0.625486		0.639874	0.0005	k(col/abs)
0.639930	0.0005	0.639939	0.0005	0.8355	
k(absorption)	0.634265		0.639986	0.0005	k(abs/tk ln)
0.640101	0.0005	0.640046	0.0005	0.4025	
k(trk length)	0.627011		0.640215	0.0007	k(tk ln/col)
0.640045	0.0005	0.639952	0.0005	0.5225	
rem life(col)	6.9757E+03		6.8478E+03	0.0006	k(col/abs/tk ln)
0.640025	0.0005	0.640014	0.0005		
rem life(abs)	6.9516E+03		6.8474E+03	0.0006	life(col/abs/tl)
6.8486E+03	0.0005	6.8519E+03	0.0004		
source points generated	4993				

estimator	cycle	1013	ave of	963 cycles	combination
simple average	combined average		corr		
k(collision)	0.631785		0.639866	0.0005	k(col/abs)
0.639923	0.0005	0.639932	0.0005	0.8355	
k(absorption)	0.634518		0.639980	0.0005	k(abs/tk ln)
0.640102	0.0005	0.640044	0.0005	0.4020	
k(trk length)	0.648437		0.640224	0.0007	k(tk ln/col)
0.640045	0.0005	0.639947	0.0005	0.5218	

rem life(col)	6.6936E+03	6.8476E+03	0.0006	k(col/abs/tk ln)
0.640023	0.0005	0.640011	0.0005	
rem life(abs)	6.6695E+03	6.8472E+03	0.0006	life(col/abs/tl)
6.8485E+03	0.0005	6.8518E+03	0.0004	
source points generated	5042			

estimator	cycle	1014	ave of	964 cycles	combination
simple average	combined average		corr		
k(collision)	0.650250		0.639877	0.0005	k(col/abs)
0.639939	0.0005	0.639948	0.0005	0.8355	
k(absorption)	0.659398		0.640000	0.0005	k(abs/tk ln)
0.640111	0.0005	0.640058	0.0005	0.4008	
k(trk length)	0.637302		0.640221	0.0007	k(tk ln/col)
0.640049	0.0005	0.639955	0.0005	0.5213	
rem life(col)	6.8399E+03	6.8476E+03	0.0006		k(col/abs/tk ln)
0.640033	0.0005	0.640024	0.0005		
rem life(abs)	6.8264E+03	6.8472E+03	0.0006		life(col/abs/tl)
6.8484E+03	0.0005	6.8518E+03	0.0004		
source points generated	5140				

estimator	cycle	1015	ave of	965 cycles	combination
simple average	combined average		corr		
k(collision)	0.635685		0.639872	0.0005	k(col/abs)
0.639930	0.0005	0.639938	0.0005	0.8353	
k(absorption)	0.627413		0.639987	0.0005	k(abs/tk ln)
0.640096	0.0005	0.640044	0.0005	0.4017	
k(trk length)	0.625175		0.640205	0.0007	k(tk ln/col)
0.640039	0.0005	0.639948	0.0005	0.5214	
rem life(col)	6.7570E+03	6.8475E+03	0.0006		k(col/abs/tk ln)
0.640022	0.0005	0.640011	0.0005		
rem life(abs)	6.7771E+03	6.8471E+03	0.0006		life(col/abs/tl)
6.8484E+03	0.0005	6.8519E+03	0.0004		
source points generated	4874				

estimator	cycle	1016	ave of	966 cycles	combination
simple average	combined average		corr		
k(collision)	0.655417		0.639888	0.0005	k(col/abs)
0.639939	0.0005	0.639947	0.0005	0.8347	
k(absorption)	0.642567		0.639990	0.0005	k(abs/tk ln)
0.640106	0.0005	0.640051	0.0005	0.4017	
k(trk length)	0.655526		0.640221	0.0007	k(tk ln/col)
0.640055	0.0005	0.639964	0.0005	0.5221	
rem life(col)	6.8495E+03	6.8475E+03	0.0006		k(col/abs/tk ln)
0.640033	0.0005	0.640020	0.0005		
rem life(abs)	6.8719E+03	6.8472E+03	0.0006		life(col/abs/tl)
6.8484E+03	0.0005	6.8519E+03	0.0004		
source points generated	5133				

estimator	cycle	1017	ave of	967 cycles	combination
simple average	combined average		corr		
k(collision)	0.640486		0.639889	0.0005	k(col/abs)
0.639947	0.0005	0.639955	0.0005	0.8340	
k(absorption)	0.654053		0.640005	0.0005	k(abs/tk ln)
0.640111	0.0005	0.640061	0.0005	0.4010	

k(trk length)	0.637278	0.640218	0.0007	k(tk ln/col)
0.640054	0.0005	0.639964	0.0005	0.5221
rem life(col)	6.6325E+03	6.8473E+03	0.0006	k(col/abs/tk ln)
0.640037	0.0005	0.640028	0.0005	
rem life(abs)	6.6222E+03	6.8469E+03	0.0006	life(col/abs/tl)
6.8482E+03	0.0005	6.8517E+03	0.0004	
source points generated	4909			

estimator	cycle 1018	ave of	968 cycles	combination
simple average	combined average		corr	
k(collision)	0.638826	0.639888	0.0005	k(col/abs)
0.639950	0.0005	0.639959	0.0005	0.8337
k(absorption)	0.646694	0.640012	0.0005	k(abs/tk ln)
0.640120	0.0005	0.640068	0.0005	0.4013
k(trk length)	0.649421	0.640228	0.0007	k(tk ln/col)
0.640058	0.0005	0.639965	0.0005	0.5219
rem life(col)	6.9465E+03	6.8474E+03	0.0006	k(col/abs/tk ln)
0.640042	0.0005	0.640033	0.0005	
rem life(abs)	6.9402E+03	6.8470E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0005	6.8517E+03	0.0004	
source points generated	4995			

estimator	cycle 1019	ave of	969 cycles	combination
simple average	combined average		corr	
k(collision)	0.640814	0.639889	0.0005	k(col/abs)
0.639948	0.0005	0.639957	0.0005	0.8336
k(absorption)	0.636633	0.640008	0.0005	k(abs/tk ln)
0.640123	0.0005	0.640068	0.0005	0.4009
k(trk length)	0.649917	0.640238	0.0007	k(tk ln/col)
0.640063	0.0005	0.639968	0.0005	0.5218
rem life(col)	7.0803E+03	6.8476E+03	0.0006	k(col/abs/tk ln)
0.640045	0.0005	0.640033	0.0005	
rem life(abs)	7.0853E+03	6.8473E+03	0.0006	life(col/abs/tl)
6.8485E+03	0.0005	6.8518E+03	0.0004	
source points generated	4995			

estimator	cycle 1020	ave of	970 cycles	combination
simple average	combined average		corr	
k(collision)	0.649296	0.639899	0.0005	k(col/abs)
0.639962	0.0005	0.639971	0.0005	0.8337
k(absorption)	0.656650	0.640025	0.0005	k(abs/tk ln)
0.640122	0.0005	0.640076	0.0005	0.3977
k(trk length)	0.621032	0.640218	0.0007	k(tk ln/col)
0.640058	0.0005	0.639971	0.0005	0.5199
rem life(col)	6.8223E+03	6.8476E+03	0.0006	k(col/abs/tk ln)
0.640047	0.0005	0.640041	0.0005	
rem life(abs)	6.7747E+03	6.8472E+03	0.0006	life(col/abs/tl)
6.8484E+03	0.0005	6.8517E+03	0.0004	
source points generated	5079			

estimator	cycle 1021	ave of	971 cycles	combination
simple average	combined average		corr	
k(collision)	0.634653	0.639893	0.0005	k(col/abs)
0.639949	0.0005	0.639957	0.0005	0.8330

k(absorption)	0.621088	0.640006	0.0005	k(abs/tk ln)
0.640110	0.0005	0.640061	0.0005	0.3975
k(trk length)	0.636243	0.640214	0.0007	k(tk ln/col)
0.640053	0.0005	0.639966	0.0005	0.5199
rem life(col)	6.9421E+03	6.8477E+03	0.0006	k(col/abs/tk ln)
0.640038	0.0005	0.640028	0.0005	
rem life(abs)	6.9718E+03	6.8473E+03	0.0006	life(col/abs/tl)
6.8485E+03	0.0005	6.8519E+03	0.0004	
source points generated	4883			

estimator	cycle	1022	ave of	972 cycles	combination
simple average	combined average		corr		
k(collision)	0.634160	0.639887	0.0005	k(col/abs)	
0.639944	0.0005	0.639951	0.0005	0.8331	
k(absorption)	0.634473	0.640000	0.0005	k(abs/tk ln)	
0.640112	0.0005	0.640059	0.0005	0.3970	
k(trk length)	0.650014	0.640224	0.0007	k(tk ln/col)	
0.640056	0.0005	0.639964	0.0005	0.5193	
rem life(col)	6.8727E+03	6.8477E+03	0.0006	k(col/abs/tk ln)	
0.640037	0.0005	0.640025	0.0005		
rem life(abs)	6.9015E+03	6.8474E+03	0.0006	life(col/abs/tl)	
6.8486E+03	0.0005	6.8519E+03	0.0004		
source points generated	4956				

estimator	cycle	1023	ave of	973 cycles	combination
simple average	combined average		corr		
k(collision)	0.623292	0.639870	0.0005	k(col/abs)	
0.639926	0.0005	0.639934	0.0005	0.8335	
k(absorption)	0.623277	0.639983	0.0005	k(abs/tk ln)	
0.640098	0.0005	0.640044	0.0005	0.3975	
k(trk length)	0.630647	0.640214	0.0007	k(tk ln/col)	
0.640042	0.0005	0.639949	0.0005	0.5196	
rem life(col)	6.9067E+03	6.8478E+03	0.0006	k(col/abs/tk ln)	
0.640022	0.0005	0.640010	0.0005		
rem life(abs)	6.9280E+03	6.8475E+03	0.0006	life(col/abs/tl)	
6.8486E+03	0.0005	6.8519E+03	0.0004		
source points generated	4911				

estimator	cycle	1024	ave of	974 cycles	combination
simple average	combined average		corr		
k(collision)	0.643007	0.639873	0.0005	k(col/abs)	
0.639927	0.0005	0.639934	0.0005	0.8334	
k(absorption)	0.637481	0.639980	0.0005	k(abs/tk ln)	
0.640107	0.0005	0.640047	0.0005	0.3968	
k(trk length)	0.658652	0.640233	0.0007	k(tk ln/col)	
0.640053	0.0005	0.639956	0.0005	0.5196	
rem life(col)	6.6054E+03	6.8475E+03	0.0006	k(col/abs/tk ln)	
0.640029	0.0005	0.640014	0.0005		
rem life(abs)	6.6071E+03	6.8472E+03	0.0006	life(col/abs/tl)	
6.8484E+03	0.0005	6.8519E+03	0.0004		
source points generated	5170				

estimator	cycle	1025	ave of	975 cycles	combination
simple average	combined average		corr		

k(collision)	0.648605	0.639882	0.0005	k(col/abs)
0.639937	0.0005	0.639944	0.0005	0.8335
k(absorption)	0.651677	0.639992	0.0005	k(abs/tk ln)
0.640113	0.0005	0.640057	0.0005	0.3966
k(trk length)	0.641325	0.640234	0.0007	k(tk ln/col)
0.640058	0.0005	0.639963	0.0005	0.5194
rem life(col)	6.8164E+03	6.8475E+03	0.0006	k(col/abs/tk ln)
0.640036	0.0005	0.640023	0.0005	
rem life(abs)	6.8175E+03	6.8472E+03	0.0006	life(col/abs/tl)
6.8484E+03	0.0005	6.8517E+03	0.0004	
source points generated	5044			

estimator	cycle	1026	ave of	976 cycles	combination
simple average	combined average		corr		
k(collision)	0.641052	0.639884	0.0005	k(col/abs)	
0.639939	0.0005	0.639946	0.0005	0.8335	
k(absorption)	0.642157	0.639994	0.0005	k(abs/tk ln)	
0.640111	0.0005	0.640056	0.0005	0.3964	
k(trk length)	0.633231	0.640227	0.0007	k(tk ln/col)	
0.640055	0.0005	0.639962	0.0005	0.5193	
rem life(col)	6.8424E+03	6.8475E+03	0.0006	k(col/abs/tk ln)	
0.640035	0.0005	0.640022	0.0005		
rem life(abs)	6.8414E+03	6.8472E+03	0.0006	life(col/abs/tl)	
6.8484E+03	0.0005	6.8516E+03	0.0004		
source points generated	4939				

estimator	cycle	1027	ave of	977 cycles	combination
simple average	combined average		corr		
k(collision)	0.654645	0.639899	0.0005	k(col/abs)	
0.639952	0.0005	0.639959	0.0005	0.8337	
k(absorption)	0.650463	0.640005	0.0005	k(abs/tk ln)	
0.640114	0.0005	0.640063	0.0005	0.3958	
k(trk length)	0.635307	0.640222	0.0007	k(tk ln/col)	
0.640060	0.0005	0.639973	0.0005	0.5182	
rem life(col)	6.7407E+03	6.8474E+03	0.0006	k(col/abs/tk ln)	
0.640042	0.0005	0.640031	0.0005		
rem life(abs)	6.7736E+03	6.8471E+03	0.0006	life(col/abs/tl)	
6.8483E+03	0.0005	6.8515E+03	0.0004		
source points generated	5058				

estimator	cycle	1028	ave of	978 cycles	combination
simple average	combined average		corr		
k(collision)	0.647946	0.639907	0.0005	k(col/abs)	
0.639965	0.0005	0.639973	0.0005	0.8335	
k(absorption)	0.658221	0.640024	0.0005	k(abs/tk ln)	
0.640131	0.0005	0.640081	0.0005	0.3969	
k(trk length)	0.655450	0.640237	0.0007	k(tk ln/col)	
0.640072	0.0005	0.639983	0.0005	0.5186	
rem life(col)	6.7469E+03	6.8473E+03	0.0006	k(col/abs/tk ln)	
0.640056	0.0005	0.640046	0.0005		
rem life(abs)	6.7360E+03	6.8470E+03	0.0006	life(col/abs/tl)	
6.8482E+03	0.0005	6.8514E+03	0.0004		
source points generated	4930				

estimator	cycle	1029	ave of	979 cycles	combination
simple average	combined average		corr		
k(collision)	0.640421		0.639907	0.0005	k(col/abs)
0.639965	0.0005	0.639972	0.0005	0.8335	
k(absorption)	0.638874		0.640023	0.0005	k(abs/tk ln)
0.640138	0.0005	0.640084	0.0005	0.3966	
k(trk length)	0.655656		0.640253	0.0007	k(tk ln/col)
0.640080	0.0005	0.639987	0.0005	0.5184	
rem life(col)	6.7827E+03		6.8472E+03	0.0006	k(col/abs/tk ln)
0.640061	0.0005	0.640049	0.0005		
rem life(abs)	6.8186E+03		6.8470E+03	0.0006	life(col/abs/tl)
6.8481E+03	0.0005	6.8513E+03	0.0004		
source points generated		4953			

estimator	cycle	1030	ave of	980 cycles	combination
simple average	combined average		corr		
k(collision)	0.642558		0.639910	0.0005	k(col/abs)
0.639969	0.0005	0.639977	0.0005	0.8335	
k(absorption)	0.645811		0.640029	0.0005	k(abs/tk ln)
0.640139	0.0005	0.640088	0.0005	0.3964	
k(trk length)	0.637391		0.640250	0.0007	k(tk ln/col)
0.640080	0.0005	0.639988	0.0005	0.5183	
rem life(col)	6.9858E+03		6.8474E+03	0.0006	k(col/abs/tk ln)
0.640063	0.0005	0.640052	0.0005		
rem life(abs)	6.9864E+03		6.8471E+03	0.0006	life(col/abs/tl)
6.8482E+03	0.0005	6.8514E+03	0.0004		
source points generated		5010			

estimator	cycle	1031	ave of	981 cycles	combination
simple average	combined average		corr		
k(collision)	0.649188		0.639920	0.0005	k(col/abs)
0.639977	0.0005	0.639985	0.0005	0.8335	
k(absorption)	0.646765		0.640035	0.0005	k(abs/tk ln)
0.640145	0.0005	0.640094	0.0005	0.3964	
k(trk length)	0.643723		0.640254	0.0007	k(tk ln/col)
0.640087	0.0005	0.639996	0.0005	0.5183	
rem life(col)	6.8713E+03		6.8474E+03	0.0006	k(col/abs/tk ln)
0.640070	0.0005	0.640059	0.0005		
rem life(abs)	6.8794E+03		6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0005	6.8515E+03	0.0004		
source points generated		5058			

estimator	cycle	1032	ave of	982 cycles	combination
simple average	combined average		corr		
k(collision)	0.635088		0.639915	0.0005	k(col/abs)
0.639976	0.0005	0.639983	0.0005	0.8334	
k(absorption)	0.641636		0.640037	0.0005	k(abs/tk ln)
0.640139	0.0005	0.640091	0.0005	0.3961	
k(trk length)	0.626967		0.640240	0.0007	k(tk ln/col)
0.640077	0.0005	0.639989	0.0005	0.5184	
rem life(col)	6.8304E+03		6.8474E+03	0.0006	k(col/abs/tk ln)
0.640064	0.0005	0.640056	0.0005		
rem life(abs)	6.8294E+03		6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0005	6.8515E+03	0.0004		

source points generated 4898

estimator	cycle	1033	ave of	983 cycles	combination
simple average	combined average		corr		
k(collision)	0.606770		0.639881	0.0005	k(col/abs)
0.639944	0.0005	0.639952	0.0005	0.8348	
k(absorption)	0.610458		0.640007	0.0005	k(abs/tk ln)
0.640116	0.0005	0.640065	0.0005	0.3974	
k(trk length)	0.625006		0.640225	0.0007	k(tk ln/col)
0.640053	0.0005	0.639961	0.0005	0.5190	
rem life(col)	6.8442E+03		6.8474E+03	0.0006	k(col/abs/tk ln)
0.640038	0.0005	0.640030	0.0005		
rem life(abs)	6.8638E+03		6.8471E+03	0.0006	life(col/abs/tl)
6.8483E+03	0.0005	6.8516E+03	0.0004		

source points generated 4786

estimator	cycle	1034	ave of	984 cycles	combination
simple average	combined average		corr		
k(collision)	0.629686		0.639871	0.0005	k(col/abs)
0.639933	0.0005	0.639941	0.0005	0.8350	
k(absorption)	0.629174		0.639996	0.0005	k(abs/tk ln)
0.640103	0.0005	0.640053	0.0005	0.3981	
k(trk length)	0.624781		0.640209	0.0007	k(tk ln/col)
0.640040	0.0005	0.639949	0.0005	0.5195	
rem life(col)	6.8975E+03		6.8474E+03	0.0006	k(col/abs/tk ln)
0.640025	0.0005	0.640017	0.0005		
rem life(abs)	6.9061E+03		6.8472E+03	0.0006	life(col/abs/tl)
6.8484E+03	0.0005	6.8517E+03	0.0004		

source points generated 5191

estimator	cycle	1035	ave of	985 cycles	combination
simple average	combined average		corr		
k(collision)	0.644902		0.639876	0.0005	k(col/abs)
0.639937	0.0005	0.639945	0.0005	0.8350	
k(absorption)	0.642871		0.639999	0.0005	k(abs/tk ln)
0.640110	0.0005	0.640059	0.0005	0.3982	
k(trk length)	0.652695		0.640222	0.0007	k(tk ln/col)
0.640049	0.0005	0.639956	0.0005	0.5197	
rem life(col)	7.0159E+03		6.8476E+03	0.0006	k(col/abs/tk ln)
0.640032	0.0005	0.640023	0.0005		
rem life(abs)	7.0440E+03		6.8474E+03	0.0006	life(col/abs/tl)
6.8485E+03	0.0005	6.8518E+03	0.0004		

source points generated 5101

estimator	cycle	1036	ave of	986 cycles	combination
simple average	combined average		corr		
k(collision)	0.649726		0.639886	0.0005	k(col/abs)
0.639946	0.0005	0.639953	0.0005	0.8351	
k(absorption)	0.646453		0.640005	0.0005	k(abs/tk ln)
0.640120	0.0005	0.640067	0.0005	0.3985	
k(trk length)	0.652582		0.640234	0.0007	k(tk ln/col)
0.640060	0.0005	0.639967	0.0005	0.5201	
rem life(col)	6.8513E+03		6.8476E+03	0.0006	k(col/abs/tk ln)
0.640042	0.0005	0.640032	0.0005		

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rem life(abs)    6.8368E+03    6.8474E+03 0.0006    life(col/abs/tl)
6.8485E+03 0.0005    6.8518E+03 0.0004
source points generated    5026

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estimator    cycle 1037    ave of    987 cycles    combination
simple average    combined average    corr
k(collision)    0.626020    0.639872 0.0005    k(col/abs)
0.639934 0.0005    0.639942 0.0005    0.8352
k(absorption)    0.630973    0.639996 0.0005    k(abs/tk ln)
0.640104 0.0005    0.640053 0.0005    0.3993
k(trk length)    0.617169    0.640211 0.0007    k(tk ln/col)
0.640041 0.0005    0.639950 0.0005    0.5211
rem life(col)    6.9045E+03    6.8477E+03 0.0006    k(col/abs/tk ln)
0.640026 0.0005    0.640018 0.0005
rem life(abs)    6.8948E+03    6.8474E+03 0.0006    life(col/abs/tl)
6.8486E+03 0.0005    6.8518E+03 0.0004
source points generated    4807

```

```

estimator    cycle 1038    ave of    988 cycles    combination
simple average    combined average    corr
k(collision)    0.635972    0.639868 0.0005    k(col/abs)
0.639929 0.0005    0.639937 0.0005    0.8352
k(absorption)    0.633927    0.639990 0.0005    k(abs/tk ln)
0.640090 0.0005    0.640043 0.0005    0.3996
k(trk length)    0.619673    0.640190 0.0007    k(tk ln/col)
0.640029 0.0005    0.639942 0.0005    0.5211
rem life(col)    6.8528E+03    6.8477E+03 0.0006    k(col/abs/tk ln)
0.640016 0.0005    0.640009 0.0005
rem life(abs)    6.8363E+03    6.8474E+03 0.0006    life(col/abs/tl)
6.8486E+03 0.0005    6.8519E+03 0.0004
source points generated    5127

```

```

estimator    cycle 1039    ave of    989 cycles    combination
simple average    combined average    corr
k(collision)    0.640336    0.639868 0.0005    k(col/abs)
0.639933 0.0005    0.639942 0.0005    0.8350
k(absorption)    0.647861    0.639998 0.0005    k(abs/tk ln)
0.640099 0.0005    0.640052 0.0005    0.4000
k(trk length)    0.650778    0.640201 0.0007    k(tk ln/col)
0.640034 0.0005    0.639945 0.0005    0.5209
rem life(col)    6.9467E+03    6.8478E+03 0.0006    k(col/abs/tk ln)
0.640022 0.0005    0.640015 0.0005
rem life(abs)    6.9022E+03    6.8475E+03 0.0006    life(col/abs/tl)
6.8486E+03 0.0005    6.8519E+03 0.0004
source points generated    5048

```

```

estimator    cycle 1040    ave of    990 cycles    combination
simple average    combined average    corr
k(collision)    0.657296    0.639886 0.0005    k(col/abs)
0.639948 0.0005    0.639957 0.0005    0.8352
k(absorption)    0.652377    0.640011 0.0005    k(abs/tk ln)
0.640116 0.0005    0.640066 0.0005    0.4010
k(trk length)    0.660007    0.640221 0.0007    k(tk ln/col)
0.640053 0.0005    0.639963 0.0005    0.5221

```

rem life(col)	6.7380E+03	6.8476E+03	0.0006	k(col/abs/tk ln)
0.640039 0.0005	0.640031	0.0005		
rem life(abs)	6.8045E+03	6.8474E+03	0.0006	life(col/abs/tl)
6.8486E+03 0.0005	6.8518E+03	0.0004		
source points generated	5104			

estimator	cycle 1041	ave of	991 cycles	combination
simple average	combined average		corr	
k(collision)	0.625478	0.639871	0.0005	k(col/abs)
0.639933 0.0005	0.639942	0.0005	0.8356	
k(absorption)	0.624765	0.639995	0.0005	k(abs/tk ln)
0.640113 0.0005	0.640058	0.0005	0.3994	
k(trk length)	0.650235	0.640231	0.0007	k(tk ln/col)
0.640051 0.0005	0.639954	0.0005	0.5204	
rem life(col)	6.9130E+03	6.8477E+03	0.0006	k(col/abs/tk ln)
0.640032 0.0005	0.640022	0.0005		
rem life(abs)	6.8906E+03	6.8475E+03	0.0006	life(col/abs/tl)
6.8486E+03 0.0005	6.8518E+03	0.0004		
source points generated	4751			

estimator	cycle 1042	ave of	992 cycles	combination
simple average	combined average		corr	
k(collision)	0.647125	0.639879	0.0005	k(col/abs)
0.639942 0.0005	0.639950	0.0005	0.8356	
k(absorption)	0.649828	0.640005	0.0005	k(abs/tk ln)
0.640114 0.0005	0.640063	0.0005	0.3985	
k(trk length)	0.631368	0.640222	0.0007	k(tk ln/col)
0.640050 0.0005	0.639958	0.0005	0.5198	
rem life(col)	6.8391E+03	6.8477E+03	0.0006	k(col/abs/tk ln)
0.640035 0.0005	0.640027	0.0005		
rem life(abs)	6.8733E+03	6.8475E+03	0.0006	life(col/abs/tl)
6.8486E+03 0.0005	6.8518E+03	0.0004		
source points generated	5174			

estimator	cycle 1043	ave of	993 cycles	combination
simple average	combined average		corr	
k(collision)	0.618105	0.639857	0.0005	k(col/abs)
0.639928 0.0005	0.639938	0.0005	0.8349	
k(absorption)	0.634335	0.639999	0.0005	k(abs/tk ln)
0.640096 0.0005	0.640051	0.0005	0.3987	
k(trk length)	0.611598	0.640193	0.0007	k(tk ln/col)
0.640025 0.0005	0.639934	0.0005	0.5218	
rem life(col)	6.9982E+03	6.8479E+03	0.0006	k(col/abs/tk ln)
0.640016 0.0005	0.640013	0.0005		
rem life(abs)	6.9343E+03	6.8476E+03	0.0006	life(col/abs/tl)
6.8487E+03 0.0005	6.8519E+03	0.0004		
source points generated	4782			

estimator	cycle 1044	ave of	994 cycles	combination
simple average	combined average		corr	
k(collision)	0.649561	0.639866	0.0005	k(col/abs)
0.639935 0.0005	0.639945	0.0005	0.8348	
k(absorption)	0.643729	0.640003	0.0005	k(abs/tk ln)
0.640098 0.0005	0.640054	0.0005	0.3987	

k(trk length)	0.640095	0.640193	0.0007	k(tk ln/col)
0.640030 0.0005	0.639942	0.0005	0.5216	
rem life(col)	6.8531E+03	6.8479E+03	0.0006	k(col/abs/tk ln)
0.640021 0.0005	0.640018	0.0005		
rem life(abs)	6.8440E+03	6.8476E+03	0.0006	life(col/abs/tl)
6.8487E+03 0.0005	6.8519E+03	0.0004		
source points generated	5287			

estimator	cycle 1045	ave of	995 cycles	combination
simple average	combined average		corr	
k(collision)	0.631279	0.639858	0.0005	k(col/abs)
0.639927 0.0005	0.639937	0.0005	0.8349	
k(absorption)	0.633199	0.639996	0.0005	k(abs/tk ln)
0.640101 0.0005	0.640052	0.0005	0.3979	
k(trk length)	0.652887	0.640206	0.0007	k(tk ln/col)
0.640032 0.0005	0.639938	0.0005	0.5205	
rem life(col)	7.0219E+03	6.8480E+03	0.0006	k(col/abs/tk ln)
0.640020 0.0005	0.640015	0.0005		
rem life(abs)	6.9978E+03	6.8477E+03	0.0006	life(col/abs/tl)
6.8488E+03 0.0005	6.8518E+03	0.0004		
source points generated	4888			

estimator	cycle 1046	ave of	996 cycles	combination
simple average	combined average		corr	
k(collision)	0.634714	0.639853	0.0005	k(col/abs)
0.639923 0.0005	0.639933	0.0005	0.8349	
k(absorption)	0.637005	0.639993	0.0005	k(abs/tk ln)
0.640111 0.0005	0.640056	0.0005	0.3968	
k(trk length)	0.663746	0.640229	0.0007	k(tk ln/col)
0.640041 0.0005	0.639940	0.0005	0.5188	
rem life(col)	6.7521E+03	6.8479E+03	0.0006	k(col/abs/tk ln)
0.640025 0.0005	0.640018	0.0005		
rem life(abs)	6.7378E+03	6.8476E+03	0.0006	life(col/abs/tl)
6.8487E+03 0.0005	6.8518E+03	0.0004		
source points generated	4983			

estimator	cycle 1047	ave of	997 cycles	combination
simple average	combined average		corr	
k(collision)	0.634171	0.639847	0.0005	k(col/abs)
0.639916 0.0005	0.639926	0.0005	0.8349	
k(absorption)	0.631869	0.639985	0.0005	k(abs/tk ln)
0.640118 0.0005	0.640055	0.0005	0.3951	
k(trk length)	0.660597	0.640250	0.0007	k(tk ln/col)
0.640048 0.0005	0.639940	0.0005	0.5174	
rem life(col)	6.8397E+03	6.8479E+03	0.0006	k(col/abs/tk ln)
0.640027 0.0005	0.640016	0.0005		
rem life(abs)	6.8281E+03	6.8476E+03	0.0006	life(col/abs/tl)
6.8487E+03 0.0005	6.8519E+03	0.0004		
source points generated	5033			

estimator	cycle 1048	ave of	998 cycles	combination
simple average	combined average		corr	
k(collision)	0.625109	0.639832	0.0005	k(col/abs)
0.639907 0.0005	0.639918	0.0005	0.8346	

k(absorption)	0.636239	0.639981	0.0005	k(abs/tk ln)
0.640114	0.0005	0.640052	0.0005	0.3951
k(trk length)	0.636806	0.640246	0.0007	k(tk ln/col)
0.640039	0.0005	0.639928	0.0005	0.5172
rem life(col)	6.9796E+03	6.8481E+03	0.0006	k(col/abs/tk ln)
0.640020	0.0005	0.640011	0.0005	
rem life(abs)	6.9658E+03	6.8477E+03	0.0006	life(col/abs/tl)
6.8489E+03	0.0005	6.8519E+03	0.0004	
source points generated	4889			

estimator	cycle 1049	ave of	999 cycles	combination
simple average	combined average		corr	
k(collision)	0.645977	0.639838	0.0005	k(col/abs)
0.639907	0.0005	0.639918	0.0005	0.8341
k(absorption)	0.635102	0.639977	0.0005	k(abs/tk ln)
0.640112	0.0005	0.640048	0.0005	0.3951
k(trk length)	0.640543	0.640247	0.0007	k(tk ln/col)
0.640043	0.0005	0.639933	0.0005	0.5172
rem life(col)	6.9193E+03	6.8481E+03	0.0006	k(col/abs/tk ln)
0.640021	0.0005	0.640009	0.0005	
rem life(abs)	6.9123E+03	6.8478E+03	0.0006	life(col/abs/tl)
6.8489E+03	0.0005	6.8520E+03	0.0004	
source points generated	5193			

estimator	cycle 1050	ave of	1000 cycles	combination
simple average	combined average		corr	
k(collision)	0.639456	0.639838	0.0005	k(col/abs)
0.639908	0.0005	0.639919	0.0005	0.8340
k(absorption)	0.641993	0.639979	0.0005	k(abs/tk ln)
0.640112	0.0005	0.640049	0.0005	0.3950
k(trk length)	0.639010	0.640246	0.0007	k(tk ln/col)
0.640042	0.0005	0.639933	0.0005	0.5172
rem life(col)	6.7468E+03	6.8480E+03	0.0006	k(col/abs/tk ln)
0.640021	0.0005	0.640010	0.0005	
rem life(abs)	6.7155E+03	6.8477E+03	0.0006	life(col/abs/tl)
6.8488E+03	0.0005	6.8520E+03	0.0004	
source points generated	4912			

source distribution written to file srctp cycle = 1050
 1problem summary (active cycles only) source particle weight
 for summary table normalization = 5000000.00

run terminated when 1050 kcode cycles were done.

+

04/19/16 07:07:52

Loose Plate with Box

probid = 04/19/16 06:24:14

0

neutron creation	tracks	weight	energy	neutron
loss	tracks	weight	energy	
			(per source particle)	

(per source particle)

source	5001757	1.0000E+00	2.0345E+00	escape	
635	7.6104E-05	9.2528E-05		energy	
cutoff	0	0.	0.	time	
cutoff	0	0.	0.		
weight window		0	0.	weight	
window	0	0.	0.		
cell importance		0	0.	cell	
importance	0	0.	0.		
weight cutoff		0	1.2678E-01	weight	
cutoff	5003222	1.2674E-01	3.0148E-07		
e or t importance		0	0.	e or t	
importance	0	0.	0.		
dxtran		0	0.	dxtran	
0	0.	0.			
forced collisions		0	0.	forced	
collisions	0	0.	0.		
exp. transform		0	0.	exp.	
transform	0	0.	0.		
upscattering		0	0.	3.2407E-07	
downscattering		0	0.	1.9920E+00	
photonuclear		0	0.	capture	
0	7.3821E-01	2.7638E-02			
(n,xn)		4195	7.3238E-04	6.1250E-04	loss to
(n,xn)	2095	3.6579E-04	3.4879E-03		
prompt fission		0	0.	0.	loss to
fission	0	2.6212E-01	1.1952E-02		
delayed fission		0	0.	0.	
total	5005952	1.1275E+00	2.0352E+00		
total	5005952	1.1275E+00	2.0352E+00		

number of neutrons banked	2196	average time
of (shakes)	cutoffs	
neutron tracks per source particle	1.0012E+00	escape
1.6150E+04	tco 1.0000E+33	
neutron collisions per source particle	1.1689E+02	capture
7.8302E+03	eco 0.0000E+00	
total neutron collisions	584443097	capture or
escape 7.8311E+03	wc1 -5.0000E-01	
net multiplication	1.0004E+00 0.0000	any
termination 8.0669E+03	wc2 -2.5000E-01	

computer time so far in this run	43.62 minutes	maximum
number ever in bank	2	
computer time in mcrun	43.58 minutes	bank
overflows to backup file	0	
source particles per minute	1.2045E+05	
random numbers generated	6125717410	most random
numbers used was	15247 in history	988648

range of sampled source weights = 9.3110E-01 to 1.6166E+00

source efficiency = 1.0000 in cell 20


```

source efficiency = 1.0000 in cell 21
source efficiency = 1.0000 in cell 22
source efficiency = 1.0000 in cell 23
source efficiency = 1.0000 in cell 24
source efficiency = 1.0000 in cell 25
source efficiency = 1.0000 in cell 26
source efficiency = 1.0000 in cell 27
source efficiency = 1.0000 in cell 400
source efficiency = 1.0000 in cell 1000
source efficiency = 1.0000 in cell 502
source efficiency = 1.0000 in cell 600
source efficiency = 1.0000 in cell 700
source efficiency = 1.0000 in cell 800
source efficiency = 1.0000 in cell 900
1neutron activity in each cell
print table 126

```

number	cell	tracks flux entering weighted	population average track weight (relative)	collisions average track mfp (cm)	collisions * weight (per history)
1	10	12904272	4355221	295900321	3.7043E+01
9.1076E-05		3.3563E-01	7.1703E-01	1.0147E+00	
2	11	4686265	1715065	14539773	2.1029E+00
5.8800E-04		5.0136E-01	8.0520E-01	2.4744E+00	
3	12	2840911	1077310	38404506	6.0862E+00
1.0834E-03		3.8860E-01	8.2359E-01	3.8250E+00	
4	13	1820944	556094	9211232	1.3286E+00
9.2382E-04		2.7592E-01	7.9792E-01	2.6297E+00	
5	14	1487837	434554	17372841	1.9675E+00
3.6834E-05		9.1161E-02	6.3619E-01	6.5306E-01	
6	20	0	0	0	0.0000E+00
0.0000E+00		0.0000E+00	0.0000E+00	0.0000E+00	
7	21	0	0	0	0.0000E+00
0.0000E+00		0.0000E+00	0.0000E+00	0.0000E+00	
8	22	0	0	0	0.0000E+00
0.0000E+00		0.0000E+00	0.0000E+00	0.0000E+00	

9	23	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10	24	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11	25	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12	26	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13	27	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14	998	901385	371932	75822146	7.5969E+00
1.4546E-05	5.2651E-02	5.4134E-01	5.0200E-01		
16	400	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
17	403	5691114	1898010	2514638	3.9563E-01
5.8343E-04	7.1327E-01	8.5767E-01	2.4301E+00		
18	404	6395146	1971773	12253543	1.6838E+00
2.8519E-04	5.6782E-01	8.1483E-01	1.4588E+00		
19	1000	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
20	1003	14521718	4157709	6644142	1.0130E+00
4.8106E-04	6.9577E-01	8.3769E-01	2.3658E+00		
21	1004	16385548	4171270	31739760	4.2539E+00
2.5355E-04	5.5135E-01	7.9848E-01	1.4229E+00		
22	501	136691145	4918926	561847	1.0626E-01
9.7016E-04	8.8656E-01	9.1393E-01	8.3057E+00		
23	502	141259523	5002840	5604858	9.1060E-01
1.0007E-03	8.9730E-01	9.1508E-01	4.1637E+00		
24	503	136672856	4929312	560807	1.0609E-01
9.7172E-04	8.8672E-01	9.1429E-01	8.3051E+00		
25	504	283119261	4953006	62590409	9.9666E+00
6.8240E-04	8.0548E-01	9.0153E-01	1.8480E+00		
26	600	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
27	2000	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
28	700	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
29	701	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
30	702	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
31	800	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
32	801	7154934	1990799	2895461	4.2513E-01
3.2971E-04	5.8436E-01	8.0822E-01	2.2119E+00		
33	900	0	0	0	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
34	901	18484376	4123144	7826813	1.1130E+00
2.5768E-04	5.4232E-01	7.8394E-01	2.1011E+00		

total 791017235 46626965 584443097 7.6100E+01
lkeff results for: Loose Plate with Box
probid = 04/19/16 06:24:14

the initial fission neutron source distribution was generated from a general sdef source description.

the criticality problem was scheduled to skip 50 cycles and run a total of 1050 cycles with nominally 5000 neutrons per cycle.

this problem has run 50 inactive cycles with 247944 neutron histories and 1000 active cycles with 5001757 neutron histories.

this calculation has completed the requested number of keff cycles using a total of 5249701 fission neutron source histories.

all cells with fissionable material were sampled and had fission neutron source points.

print table 128 off: cannot determine if all repeated structures / lattice elements were sampled.

the results of the w test for normality applied to the individual collision, absorption, and track-length keff cycle values are:

the k(collision) cycle values appear normally distributed at the 95 percent confidence level

the k(absorption) cycle values appear normally distributed at the 95 percent confidence level

the k(trk length) cycle values appear normally distributed at the 95 percent confidence level

|
|
| the final estimated combined collision/absorption/track-length keff =
0.64001 with an estimated standard deviation of 0.00030 |
|
| the estimated 68, 95, & 99 percent keff confidence intervals are
0.63971 to 0.64031, 0.63941 to 0.64062, and 0.63921 to 0.64081 |
|
| the final combined (col/abs/tl) prompt removal lifetime = 6.8520E-05
seconds with an estimated standard deviation of 2.8566E-08 |
|
| the average neutron energy causing fission = 4.5597E-02 mev
|
| the energy corresponding to the average neutron lethargy causing
fission = 1.0717E-07 mev |
|

| the percentages of fissions caused by neutrons in the thermal,
intermediate, and fast neutron ranges are: |
| (<0.625 ev): 88.75% (0.625 ev - 100 kev): 9.25% |
| (>100 kev): 2.00% |

| the average fission neutrons produced per neutron absorbed (capture +
fission) in all cells with fission = 1.8438E+00 |
| the average fission neutrons produced per neutron absorbed (capture +
fission) in all the geometry cells = 6.3962E-01 |

| the average number of neutrons produced per fission = 2.441

the estimated average keffs, one standard deviations, and 68, 95, and 99
percent confidence intervals are:

keff estimator	keff	standard deviation	68%
confidence	95% confidence	99% confidence	corr
collision	0.63984	0.00033	0.63950 to
0.64017	0.63917 to 0.64050	0.63895 to 0.64072	
absorption	0.63998	0.00033	0.63965 to
0.64030	0.63933 to 0.64063	0.63912 to 0.64084	
track length	0.64025	0.00044	0.63980 to
0.64069	0.63937 to 0.64112	0.63908 to 0.64141	
col/absorp	0.63992	0.00032	0.63960 to
0.64024	0.63929 to 0.64055	0.63908 to 0.64075	0.8340
abs/trk len	0.64005	0.00031	0.63974 to
0.64036	0.63944 to 0.64066	0.63924 to 0.64086	0.3950
col/trk len	0.63993	0.00032	0.63961 to
0.64026	0.63929 to 0.64057	0.63908 to 0.64078	0.5172
col/abs/trk len	0.64001	0.00030	0.63971 to
0.64031	0.63941 to 0.64062	0.63921 to 0.64081	

if the largest of each keff occurred on the next cycle, the keff results
and 68, 95, and 99 percent confidence intervals would be:

keff estimator	keff	standard deviation	68%
confidence	95% confidence	99% confidence	
collision	0.63987	0.00034	0.63953 to
0.64020	0.63920 to 0.64054	0.63898 to 0.64075	
absorption	0.64001	0.00033	0.63968 to
0.64034	0.63936 to 0.64066	0.63915 to 0.64088	
track length	0.64029	0.00044	0.63985 to
0.64073	0.63941 to 0.64117	0.63912 to 0.64146	

col/abs/trk len 0.64004 0.00031 0.63974 to
 0.64035 0.63943 to 0.64065 0.63924 to 0.64085

the estimated average prompt removal lifetimes, one standard deviations,
 and 68, 95, and 99 percent confidence intervals are (sec):

estimator	lifetime	std. dev.	68% confidence
95% confidence	99% confidence		corr
collision	6.84803E-05	4.18116E-08	6.8438E-05 to 6.8522E-05
	6.8397E-05 to 6.8564E-05	6.8370E-05 to 6.8591E-05	
absorption	6.84766E-05	4.16929E-08	6.8435E-05 to 6.8518E-05
	6.8394E-05 to 6.8560E-05	6.8366E-05 to 6.8587E-05	
track length	6.85077E-05	2.96544E-08	6.8478E-05 to 6.8537E-05
	6.8449E-05 to 6.8567E-05	6.8429E-05 to 6.8586E-05	
col/absorp	6.84781E-05	4.16288E-08	6.8436E-05 to 6.8520E-05
	6.8395E-05 to 6.8561E-05	6.8368E-05 to 6.8588E-05	0.9862
abs/trk len	6.85185E-05	2.86472E-08	6.8490E-05 to 6.8547E-05
	6.8461E-05 to 6.8576E-05	6.8443E-05 to 6.8594E-05	0.8536
col/trk len	6.85156E-05	2.89069E-08	6.8487E-05 to 6.8544E-05
	6.8458E-05 to 6.8573E-05	6.8439E-05 to 6.8592E-05	0.8373
col/abs/trk len	6.85197E-05	2.85655E-08	6.8491E-05 to 6.8548E-05
	6.8463E-05 to 6.8577E-05	6.8444E-05 to 6.8595E-05	

absorption estimates of prompt lifetimes (sec):

removal	escape	capture	fission
fraction	7.60722E-05	7.37910E-01	2.62014E-01
1.00000E+00			
lifetime(abs)	9.00154E-01	9.27982E-05	2.61347E-04
6.84766E-05			
lifetime(c/a/t)	9.00720E-01	9.28565E-05	2.61511E-04
6.85197E-05			

average individual and combined collision/absorption/track-length keff
 results for 14 different batch sizes

cycles per normality	number of keff batch	average k(c/a/t)	average k(c/a/t) st dev	average keff k(col)	average keff k(abs)	average keff k(trk)	estimators st dev	and deviations confidence intervals
co/ab/trk	k(c/a/t)	st dev	95% confidence	99% confidence				
1	1000		0.6398 0.0003	0.6400 0.0003	0.6402 0.0004			
95/95/95	0.64001	0.00030	0.63941-0.64062	0.63921-0.64081				
2	500		0.6398 0.0003	0.6400 0.0003	0.6402 0.0004			
95/95/95	0.64001	0.00030	0.63941-0.64062	0.63922-0.64081				
4	250		0.6398 0.0003	0.6400 0.0003	0.6402 0.0005			
95/95/95	0.64001	0.00031	0.63940-0.64062	0.63920-0.64082				
5	200		0.6398 0.0003	0.6400 0.0003	0.6402 0.0004			
95/95/95	0.64002	0.00030	0.63943-0.64062	0.63923-0.64082				

8	125		0.6398	0.0003	0.6400	0.0003	0.6402	0.0005
95/95/95	0.64003	0.00031	0.63941	-0.64065	0.63921	-0.64085		
10	100		0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.63996	0.00029	0.63939	-0.64054	0.63920	-0.64072		
20	50		0.6398	0.0003	0.6400	0.0003	0.6402	0.0005
95/95/95	0.63995	0.00031	0.63932	-0.64058	0.63911	-0.64079		
25	40		0.6398	0.0003	0.6400	0.0003	0.6402	0.0005
95/95/95	0.63994	0.00031	0.63932	-0.64057	0.63910	-0.64078		
40	25		0.6398	0.0003	0.6400	0.0003	0.6402	0.0005
95/95/95	0.63993	0.00032	0.63925	-0.64060	0.63901	-0.64084		
50	20		0.6398	0.0003	0.6400	0.0003	0.6402	0.0005
95/95/99	0.63993	0.00035	0.63920	-0.64066	0.63892	-0.64094		

100	10		0.6398	0.0003	0.6400	0.0004	0.6402	0.0006
95/95/95	0.63980	0.00040	0.63886	-0.64074	0.63841	-0.64119		
125	8		0.6398	0.0004	0.6400	0.0004	0.6402	0.0006
95/95/95	0.63992	0.00047	0.63872	-0.64111	0.63804	-0.64179		
200	5		0.6398	0.0004	0.6400	0.0004	0.6402	0.0005
95/95/95	0.63994	0.00059	0.63741	-0.64246	0.63411	-0.64576		
250	4		0.6398	0.0005	0.6400	0.0003	0.6402	0.0006
95/95/95	0.64024	0.00027	0.63681	-0.64366	0.62309	-0.65739		

lindividual and average keff estimator results by cycle

keff estimators and deviations	neutron histories	keff estimators by cycle	average keff
cycle	st dev	k(coll) st dev	average k(c/a/t) st dev fom
k(abs)		k(ABS) st dev	k(track) st dev

1	5000		0.61571	0.60969	0.61400	
2	3093		0.62844	0.61808	0.65256	
3	5094		0.62005	0.62933	0.62621	
4	4889		0.64596	0.65213	0.65329	
5	5188		0.64251	0.63559	0.65272	
6	4967		0.63056	0.63891	0.64322	
7	4900		0.62646	0.63522	0.62579	
8	4979		0.63244	0.63530	0.61020	
9	5032		0.63638	0.63145	0.63649	
10	5052		0.63894	0.64309	0.64434	

11	5017		0.64306	0.62942	0.64718	
12	5054		0.63615	0.64002	0.62368	
13	4925		0.64278	0.64555	0.64872	
14	5081		0.63920	0.63986	0.61080	
15	4949		0.64039	0.64311	0.63268	
16	5007		0.64250	0.63361	0.63105	
17	4985		0.63548	0.63598	0.65351	
18	4938		0.64351	0.64998	0.64146	
19	5063		0.66365	0.65965	0.64810	
20	5113		0.63959	0.63727	0.63829	

21	4829		0.63199	0.63472	0.61852	
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22	4938	0.65068	0.65208	0.64987
23	5119	0.65559	0.65580	0.66481
24	5024	0.65269	0.64829	0.66841
25	4960	0.64976	0.64700	0.65165
26	4989	0.65535	0.65442	0.63928
27	5018	0.63287	0.63784	0.64003
28	4824	0.63857	0.63641	0.64782
29	5089	0.65011	0.65049	0.65501
30	5077	0.64444	0.64113	0.64195

31	4916	0.64349	0.63728	0.64791
32	5026	0.63720	0.64108	0.65113
33	4944	0.63632	0.64063	0.63036
34	5005	0.65722	0.65680	0.63987
35	5152	0.61863	0.61744	0.62458
36	4711	0.64090	0.64435	0.65091
37	5180	0.64807	0.64218	0.64059
38	5088	0.63986	0.64494	0.64402
39	4941	0.63745	0.63499	0.63592
40	4950	0.64424	0.63822	0.63919

41	5067	0.64750	0.64474	0.65054
42	4993	0.62161	0.62788	0.61951
43	4801	0.63743	0.62985	0.64155
44	5132	0.63812	0.63850	0.62908
45	5014	0.65031	0.65545	0.65238
46	5092	0.65093	0.64972	0.63003
47	5010	0.61932	0.61939	0.64096
48	4706	0.63933	0.63717	0.64772
49	5156	0.62423	0.62230	0.60043
50	4867	0.65420	0.65328	0.64386

----- begin active keff cycles -----

51	5199	0.64832	0.64992	0.64467	
52	4980	0.64012	0.63670	0.62201	0.64422 0.00410
0.64331	0.00661	0.63334	0.01133		
53	4976	0.64494	0.64411	0.64327	0.64446 0.00238
0.64358	0.00383	0.63665	0.00733		
54	5011	0.64446	0.64389	0.64800	0.64446 0.00168
0.64366	0.00271	0.63949	0.00591	0.64575	0.00038 6386620
55	5000	0.64478	0.65283	0.64149	0.64452 0.00130
0.64549	0.00279	0.63989	0.00459	0.64537	0.00167 270845
56	5042	0.64404	0.64669	0.61346	0.64444 0.00107
0.64569	0.00228	0.63548	0.00579	0.64487	0.00145 300588
57	4989	0.62076	0.62266	0.65762	0.64106 0.00350
0.64240	0.00381	0.63865	0.00582	0.63987	0.00312 53633
58	4833	0.65315	0.64433	0.65282	0.64257 0.00339
0.64264	0.00331	0.64042	0.00535	0.64194	0.00289 54990
59	5282	0.64306	0.64336	0.66046	0.64262 0.00299
0.64272	0.00292	0.64264	0.00521	0.64268	0.00260 60194
60	4888	0.63542	0.63387	0.63675	0.64190 0.00277
0.64184	0.00276	0.64205	0.00470	0.64191	0.00244 61060

61 4951 | 0.63956 0.63748 0.65235 | 0.64169 0.00251
0.64144 0.00253 0.64299 0.00435 | 0.64193 0.00219 68927
62 5033 | 0.65029 0.64006 0.63890 | 0.64241 0.00240
0.64133 0.00231 0.64265 0.00399 | 0.64195 0.00202 74586
63 5076 | 0.64017 0.64188 0.63619 | 0.64224 0.00222
0.64137 0.00212 0.64215 0.00370 | 0.64177 0.00183 83032
64 4934 | 0.62363 0.63025 0.60625 | 0.64091 0.00245
0.64057 0.00212 0.63959 0.00428 | 0.64035 0.00213 56848
65 4872 | 0.64090 0.64254 0.62502 | 0.64091 0.00228
0.64071 0.00198 0.63862 0.00410 | 0.64030 0.00198 61044
66 5129 | 0.63180 0.63740 0.62257 | 0.64034 0.00220
0.64050 0.00186 0.63761 0.00397 | 0.64002 0.00188 63000
67 4906 | 0.64614 0.63781 0.65190 | 0.64068 0.00210
0.64034 0.00176 0.63845 0.00382 | 0.63995 0.00176 67939
68 5110 | 0.65601 0.64719 0.63088 | 0.64153 0.00215
0.64072 0.00170 0.63803 0.00363 | 0.64003 0.00169 69138
69 5063 | 0.63929 0.63789 0.64887 | 0.64141 0.00204
0.64057 0.00161 0.63860 0.00348 | 0.64001 0.00159 74197
70 4921 | 0.62750 0.62523 0.63304 | 0.64072 0.00206
0.63981 0.00171 0.63833 0.00331 | 0.63930 0.00167 63460

71 4933 | 0.66185 0.65409 0.64559 | 0.64172 0.00220
0.64049 0.00177 0.63867 0.00317 | 0.63959 0.00171 58306
72 5241 | 0.64374 0.64288 0.64152 | 0.64182 0.00210
0.64059 0.00169 0.63880 0.00302 | 0.63971 0.00163 61168
73 4878 | 0.61758 0.61314 0.64034 | 0.64076 0.00227
0.63940 0.00201 0.63887 0.00289 | 0.63876 0.00182 46713
74 4832 | 0.63536 0.64393 0.62627 | 0.64054 0.00218
0.63959 0.00193 0.63834 0.00282 | 0.63886 0.00171 50622
75 5183 | 0.63191 0.63967 0.63095 | 0.64019 0.00212
0.63959 0.00185 0.63805 0.00272 | 0.63887 0.00162 54129
76 4972 | 0.64535 0.63786 0.64409 | 0.64039 0.00205
0.63953 0.00178 0.63828 0.00262 | 0.63884 0.00157 55846
77 5111 | 0.64419 0.64777 0.65517 | 0.64053 0.00198
0.63983 0.00174 0.63890 0.00260 | 0.63940 0.00157 53922
78 4962 | 0.63771 0.63945 0.63132 | 0.64043 0.00191
0.63982 0.00168 0.63863 0.00252 | 0.63932 0.00151 56028
79 4956 | 0.64327 0.64807 0.65358 | 0.64053 0.00184
0.64010 0.00164 0.63915 0.00248 | 0.63977 0.00150 55102
80 5075 | 0.63600 0.62812 0.64294 | 0.64038 0.00179
0.63970 0.00164 0.63928 0.00240 | 0.63953 0.00148 54823

81 4950 | 0.66891 0.65036 0.66744 | 0.64130 0.00196
0.64005 0.00162 0.64018 0.00250 | 0.63974 0.00151 50728
82 5241 | 0.63703 0.62901 0.63113 | 0.64116 0.00190
0.63970 0.00161 0.63990 0.00243 | 0.63947 0.00153 47892
83 4772 | 0.65970 0.65517 0.66141 | 0.64173 0.00192
0.64017 0.00162 0.64055 0.00245 | 0.63992 0.00158 43600
84 5157 | 0.61287 0.61268 0.63576 | 0.64088 0.00205
0.63936 0.00177 0.64041 0.00238 | 0.63925 0.00164 38747

85	4684		0.64208	0.63786	0.64334		0.64091	0.00199
0.63932	0.00172		0.64050	0.00231		0.63923	0.00160	39876
86	5233		0.63283	0.63133	0.65847		0.64069	0.00195
0.63910	0.00169		0.64100	0.00230		0.63927	0.00155	40878
87	4919		0.64971	0.64122	0.63917		0.64093	0.00191
0.63915	0.00164		0.64095	0.00224		0.63924	0.00152	41429
88	5135		0.65779	0.65673	0.66772		0.64137	0.00191
0.63962	0.00166		0.64165	0.00229		0.63980	0.00160	36866
89	5050		0.64570	0.65223	0.67435		0.64148	0.00187
0.63994	0.00165		0.64249	0.00238		0.64045	0.00164	34332
90	4974		0.62971	0.63154	0.65673		0.64119	0.00184
0.63973	0.00162		0.64284	0.00235		0.64040	0.00160	34989

91	4840		0.65936	0.65253	0.65679		0.64163	0.00185
0.64004	0.00161		0.64319	0.00232		0.64064	0.00160	34065
92	5234		0.65505	0.64983	0.65684		0.64195	0.00183
0.64028	0.00159		0.64351	0.00228		0.64084	0.00159	33667
93	4958		0.64078	0.63073	0.64348		0.64193	0.00179
0.64005	0.00157		0.64351	0.00223		0.64074	0.00158	33389
94	4878		0.63371	0.63656	0.64109		0.64174	0.00176
0.63997	0.00154		0.64345	0.00218		0.64067	0.00154	34366
95	4939		0.65330	0.64629	0.66586		0.64200	0.00174
0.64011	0.00151		0.64395	0.00219		0.64079	0.00153	33733
96	5140		0.64294	0.63872	0.65894		0.64202	0.00170
0.64008	0.00148		0.64428	0.00216		0.64083	0.00151	33925
97	4918		0.63781	0.63359	0.65382		0.64193	0.00167
0.63995	0.00145		0.64448	0.00213		0.64079	0.00149	34106
98	4961		0.63411	0.64061	0.63474		0.64176	0.00164
0.63996	0.00142		0.64428	0.00209		0.64077	0.00144	35687
99	4972		0.63311	0.63262	0.64230		0.64159	0.00162
0.63981	0.00140		0.64424	0.00205		0.64066	0.00142	36128
100	4993		0.62801	0.61822	0.63014		0.64132	0.00161
0.63938	0.00144		0.64396	0.00203		0.64044	0.00147	32928

101	5017		0.65962	0.66043	0.64199		0.64167	0.00162
0.63979	0.00147		0.64392	0.00199		0.64086	0.00146	32750
102	5307		0.64525	0.64421	0.67146		0.64174	0.00159
0.63988	0.00144		0.64445	0.00202		0.64101	0.00146	32316
103	4882		0.63582	0.63458	0.64794		0.64163	0.00156
0.63978	0.00142		0.64451	0.00198		0.64097	0.00144	32762
104	4942		0.64576	0.64672	0.64214		0.64171	0.00153
0.63990	0.00140		0.64447	0.00195		0.64107	0.00141	33544
105	5077		0.65420	0.65643	0.64009		0.64194	0.00152
0.64021	0.00140		0.64439	0.00191		0.64136	0.00139	34049
106	5083		0.65021	0.65292	0.63275		0.64208	0.00150
0.64043	0.00140		0.64418	0.00189		0.64151	0.00135	35123
107	4948		0.63043	0.63080	0.64803		0.64188	0.00149
0.64026	0.00138		0.64425	0.00186		0.64143	0.00134	35458
108	4834		0.61719	0.61807	0.62928		0.64145	0.00152
0.63988	0.00141		0.64399	0.00184		0.64108	0.00136	33411
109	4902		0.62488	0.63230	0.61927		0.64117	0.00152
0.63975	0.00139		0.64357	0.00186		0.64077	0.00134	33732

110 5078 | 0.65861 0.65924 0.65765 | 0.64146 0.00153
0.64008 0.00141 0.64381 0.00184 | 0.64111 0.00136 32650

111 5240 | 0.64053 0.63480 0.63920 | 0.64145 0.00150
0.63999 0.00139 0.64373 0.00181 | 0.64103 0.00134 32874
112 4869 | 0.64853 0.64598 0.64449 | 0.64156 0.00148
0.64009 0.00137 0.64374 0.00178 | 0.64110 0.00132 33345
113 5052 | 0.63680 0.62955 0.67520 | 0.64149 0.00146
0.63992 0.00136 0.64424 0.00183 | 0.64111 0.00131 33332
114 4938 | 0.64388 0.64666 0.64481 | 0.64152 0.00144
0.64003 0.00134 0.64425 0.00180 | 0.64121 0.00129 33898
115 5083 | 0.63313 0.62594 0.64379 | 0.64139 0.00142
0.63981 0.00134 0.64424 0.00177 | 0.64112 0.00129 33529
116 4867 | 0.65031 0.63933 0.65443 | 0.64153 0.00140
0.63980 0.00132 0.64440 0.00175 | 0.64113 0.00128 33692
117 5156 | 0.63803 0.65154 0.63909 | 0.64148 0.00138
0.63998 0.00131 0.64432 0.00172 | 0.64132 0.00124 34876
118 4860 | 0.63435 0.63355 0.60700 | 0.64137 0.00137
0.63988 0.00129 0.64377 0.00179 | 0.64099 0.00124 34394
119 4953 | 0.63617 0.63047 0.62967 | 0.64130 0.00135
0.63975 0.00128 0.64357 0.00177 | 0.64085 0.00124 34086
120 5011 | 0.64141 0.63764 0.65623 | 0.64130 0.00133
0.63972 0.00126 0.64375 0.00175 | 0.64087 0.00122 34284

121 5047 | 0.64936 0.65267 0.64404 | 0.64141 0.00132
0.63990 0.00126 0.64375 0.00173 | 0.64105 0.00121 34653
122 5027 | 0.64714 0.65050 0.63484 | 0.64149 0.00130
0.64005 0.00125 0.64363 0.00171 | 0.64114 0.00119 35432
123 4966 | 0.64239 0.64074 0.65216 | 0.64150 0.00128
0.64005 0.00123 0.64374 0.00169 | 0.64117 0.00118 35720
124 4964 | 0.64149 0.63846 0.64058 | 0.64150 0.00127
0.64003 0.00122 0.64370 0.00167 | 0.64115 0.00116 36076
125 4981 | 0.63027 0.62833 0.63368 | 0.64135 0.00126
0.63988 0.00121 0.64357 0.00165 | 0.64100 0.00116 35858
126 4900 | 0.63322 0.63561 0.64068 | 0.64125 0.00125
0.63982 0.00119 0.64353 0.00163 | 0.64095 0.00114 36335
127 5002 | 0.62668 0.62863 0.64872 | 0.64106 0.00124
0.63968 0.00119 0.64360 0.00161 | 0.64087 0.00113 36478
128 4972 | 0.64823 0.64503 0.64564 | 0.64115 0.00123
0.63974 0.00117 0.64362 0.00159 | 0.64092 0.00112 36835
129 5131 | 0.62418 0.62919 0.61695 | 0.64093 0.00123
0.63961 0.00117 0.64329 0.00160 | 0.64065 0.00112 36380
130 4853 | 0.64465 0.63855 0.65391 | 0.64098 0.00122
0.63960 0.00115 0.64342 0.00159 | 0.64067 0.00111 36605

131 5181 | 0.63960 0.64815 0.62299 | 0.64096 0.00120
0.63970 0.00114 0.64317 0.00159 | 0.64068 0.00108 37752
132 4955 | 0.63956 0.63987 0.62301 | 0.64095 0.00119
0.63971 0.00113 0.64292 0.00159 | 0.64059 0.00107 38292
133 4998 | 0.62770 0.63903 0.64796 | 0.64079 0.00119
0.63970 0.00112 0.64298 0.00157 | 0.64061 0.00105 39080

134	4900		0.65784	0.65916	0.65577		0.64099	0.00119
0.63993	0.00113		0.64313	0.00156		0.64085	0.00106	38136
135	5236		0.61546	0.61637	0.63268		0.64069	0.00121
0.63965	0.00115		0.64301	0.00155		0.64064	0.00108	36576
136	4637		0.65115	0.64482	0.64076		0.64081	0.00121
0.63971	0.00114		0.64298	0.00153		0.64067	0.00107	37012
137	5255		0.64641	0.64482	0.64204		0.64088	0.00119
0.63977	0.00112		0.64297	0.00151		0.64071	0.00105	37416
138	5012		0.65712	0.65706	0.65421		0.64106	0.00119
0.63997	0.00113		0.64310	0.00150		0.64090	0.00106	36829
139	5034		0.63209	0.63169	0.64586		0.64096	0.00118
0.63987	0.00112		0.64313	0.00148		0.64085	0.00105	37046
140	4811		0.64057	0.64200	0.62552		0.64096	0.00117
0.63990	0.00111		0.64294	0.00148		0.64080	0.00103	37664

141	5076		0.62799	0.62693	0.62989		0.64081	0.00117
0.63975	0.00110		0.64279	0.00147		0.64066	0.00103	37311
142	4877		0.64165	0.63938	0.63603		0.64082	0.00115
0.63975	0.00109		0.64272	0.00146		0.64063	0.00102	37767
143	5094		0.64656	0.65068	0.66224		0.64088	0.00114
0.63987	0.00109		0.64293	0.00146		0.64078	0.00102	37434
144	5003		0.62757	0.62972	0.63794		0.64074	0.00114
0.63976	0.00108		0.64288	0.00144		0.64069	0.00102	37548
145	4863		0.63323	0.63268	0.64929		0.64066	0.00113
0.63969	0.00107		0.64294	0.00143		0.64066	0.00101	37850
146	5000		0.63499	0.64057	0.63591		0.64060	0.00112
0.63970	0.00106		0.64287	0.00141		0.64065	0.00100	38469
147	5015		0.64562	0.63852	0.63615		0.64066	0.00111
0.63968	0.00105		0.64280	0.00140		0.64062	0.00099	38826
148	5056		0.65318	0.65817	0.63906		0.64078	0.00111
0.63987	0.00106		0.64276	0.00139		0.64078	0.00098	39032
149	5066		0.64308	0.63838	0.63036		0.64081	0.00110
0.63986	0.00104		0.64264	0.00138		0.64073	0.00097	39375
150	4954		0.63552	0.63652	0.64348		0.64075	0.00109
0.63982	0.00103		0.64265	0.00137		0.64071	0.00096	39794

151	4923		0.62829	0.63392	0.63067		0.64063	0.00108
0.63976	0.00103		0.64253	0.00136		0.64062	0.00095	40098
152	5005		0.64742	0.64401	0.65907		0.64070	0.00107
0.63981	0.00102		0.64269	0.00135		0.64068	0.00095	40071
153	5162		0.63869	0.62588	0.63619		0.64068	0.00106
0.63967	0.00102		0.64263	0.00134		0.64061	0.00095	39612
154	4911		0.63117	0.63220	0.63928		0.64059	0.00106
0.63960	0.00101		0.64259	0.00133		0.64054	0.00094	39817
155	4969		0.63400	0.63573	0.63270		0.64052	0.00105
0.63956	0.00100		0.64250	0.00132		0.64048	0.00093	40169
156	5035		0.64339	0.64802	0.62734		0.64055	0.00104
0.63964	0.00099		0.64236	0.00131		0.64050	0.00092	40924
157	5049		0.64055	0.63590	0.63863		0.64055	0.00103
0.63961	0.00098		0.64232	0.00130		0.64047	0.00091	41225
158	4977		0.63656	0.63818	0.62579		0.64051	0.00102
0.63959	0.00098		0.64217	0.00130		0.64040	0.00091	41639

159	4907		0.64317	0.63826	0.65069		0.64054	0.00101
0.63958	0.00097		0.64225	0.00129		0.64041	0.00090	41943
160	5099		0.64278	0.64157	0.65351		0.64056	0.00100
0.63960	0.00096		0.64235	0.00128		0.64045	0.00089	42205

161	4974		0.65640	0.64960	0.67704		0.64070	0.00100
0.63969	0.00095		0.64266	0.00131		0.64054	0.00090	41051
162	5111		0.65262	0.64994	0.65302		0.64081	0.00100
0.63978	0.00095		0.64276	0.00130		0.64063	0.00090	40986
163	4979		0.62037	0.61509	0.62946		0.64063	0.00101
0.63956	0.00097		0.64264	0.00129		0.64049	0.00091	39308
164	4713		0.64928	0.64393	0.64159		0.64070	0.00100
0.63960	0.00096		0.64263	0.00128		0.64051	0.00091	39644
165	5254		0.62880	0.63220	0.62881		0.64060	0.00100
0.63954	0.00095		0.64251	0.00128		0.64041	0.00090	39767
166	4862		0.63641	0.64049	0.64081		0.64056	0.00099
0.63955	0.00094		0.64249	0.00127		0.64042	0.00089	40268
167	5043		0.61105	0.61820	0.59855		0.64031	0.00101
0.63936	0.00095		0.64212	0.00131		0.64008	0.00092	38004
168	4808		0.65266	0.65092	0.65020		0.64041	0.00101
0.63946	0.00095		0.64219	0.00130		0.64017	0.00091	38007
169	5337		0.65487	0.64870	0.64321		0.64054	0.00101
0.63954	0.00095		0.64220	0.00129		0.64022	0.00091	38177
170	5029		0.62129	0.63138	0.60193		0.64038	0.00101
0.63947	0.00094		0.64186	0.00132		0.64002	0.00090	38007

171	4723		0.63821	0.64559	0.63809		0.64036	0.00100
0.63952	0.00093		0.64183	0.00131		0.64006	0.00090	38499
172	5127		0.63863	0.64122	0.64684		0.64034	0.00100
0.63953	0.00093		0.64187	0.00130		0.64009	0.00089	38847
173	5060		0.64318	0.64092	0.63415		0.64037	0.00099
0.63955	0.00092		0.64181	0.00129		0.64008	0.00088	39222
174	5004		0.63935	0.63902	0.66276		0.64036	0.00098
0.63954	0.00091		0.64198	0.00129		0.64011	0.00088	39392
175	4962		0.62908	0.62490	0.63507		0.64027	0.00098
0.63942	0.00091		0.64192	0.00128		0.64002	0.00088	39062
176	4920		0.61957	0.62283	0.63882		0.64010	0.00098
0.63929	0.00091		0.64190	0.00127		0.63993	0.00088	38799
177	4920		0.62286	0.62529	0.64068		0.63997	0.00098
0.63918	0.00091		0.64189	0.00126		0.63985	0.00087	38727
178	4986		0.62654	0.63815	0.62653		0.63986	0.00098
0.63917	0.00091		0.64177	0.00126		0.63981	0.00087	39208
179	5009		0.64544	0.64207	0.65936		0.63991	0.00098
0.63920	0.00090		0.64190	0.00126		0.63986	0.00086	39274
180	5134		0.62202	0.62657	0.63555		0.63977	0.00098
0.63910	0.00090		0.64185	0.00125		0.63978	0.00086	39227

181	4844		0.62700	0.62992	0.62506		0.63967	0.00098
0.63903	0.00089		0.64173	0.00125		0.63969	0.00086	39228
182	5031		0.63303	0.63584	0.63198		0.63962	0.00097
0.63901	0.00089		0.64165	0.00124		0.63965	0.00085	39549

183	5105		0.63572	0.63446	0.64933		0.63959	0.00096
0.63897	0.00088		0.64171	0.00123		0.63964	0.00084	39781
184	5026		0.64707	0.63933	0.65424		0.63965	0.00096
0.63897	0.00087		0.64180	0.00122		0.63966	0.00084	39975
185	5092		0.63375	0.62050	0.65693		0.63960	0.00095
0.63884	0.00088		0.64192	0.00122		0.63962	0.00084	39675
186	4842		0.63655	0.63836	0.66594		0.63958	0.00094
0.63883	0.00087		0.64209	0.00122		0.63966	0.00084	39709
187	5046		0.64347	0.63756	0.62988		0.63961	0.00094
0.63882	0.00087		0.64200	0.00122		0.63962	0.00083	39990
188	5032		0.64099	0.64007	0.64851		0.63962	0.00093
0.63883	0.00086		0.64205	0.00121		0.63963	0.00082	40241
189	4939		0.64097	0.63632	0.64016		0.63963	0.00092
0.63882	0.00085		0.64204	0.00120		0.63962	0.00082	40495
190	5001		0.63366	0.63177	0.63004		0.63959	0.00092
0.63877	0.00085		0.64195	0.00120		0.63955	0.00082	40577

191	4945		0.65370	0.65502	0.64917		0.63969	0.00092
0.63888	0.00085		0.64200	0.00119		0.63967	0.00082	40349
192	5181		0.64618	0.64217	0.64744		0.63973	0.00091
0.63890	0.00085		0.64204	0.00118		0.63969	0.00081	40531
193	4971		0.63926	0.63897	0.64653		0.63973	0.00091
0.63890	0.00084		0.64207	0.00117		0.63970	0.00081	40768
194	4928		0.63917	0.63832	0.63951		0.63973	0.00090
0.63890	0.00083		0.64205	0.00117		0.63969	0.00080	41070
195	4993		0.65803	0.65390	0.66281		0.63985	0.00090
0.63900	0.00083		0.64220	0.00117		0.63979	0.00080	40431
196	5159		0.64731	0.65121	0.64211		0.63990	0.00090
0.63909	0.00083		0.64220	0.00116		0.63987	0.00080	40559
197	4894		0.65314	0.65826	0.64769		0.63999	0.00090
0.63922	0.00084		0.64223	0.00115		0.64000	0.00080	40213
198	5039		0.65771	0.65100	0.65078		0.64011	0.00090
0.63930	0.00084		0.64229	0.00114		0.64007	0.00080	40150
199	5055		0.64503	0.64216	0.63905		0.64015	0.00089
0.63932	0.00083		0.64227	0.00114		0.64008	0.00079	40424
200	4897		0.65152	0.64589	0.63905		0.64022	0.00089
0.63936	0.00083		0.64225	0.00113		0.64010	0.00079	40681

201	5071		0.62154	0.62019	0.62111		0.64010	0.00089
0.63923	0.00083		0.64211	0.00113		0.63997	0.00079	39713
202	4812		0.65995	0.64777	0.67044		0.64023	0.00090
0.63929	0.00083		0.64229	0.00114		0.64001	0.00080	39327
203	5324		0.63477	0.63415	0.62873		0.64019	0.00089
0.63926	0.00082		0.64221	0.00114		0.63996	0.00079	39430
204	4834		0.65678	0.66727	0.64572		0.64030	0.00089
0.63944	0.00084		0.64223	0.00113		0.64017	0.00080	38639
205	5176		0.65800	0.65617	0.66127		0.64041	0.00089
0.63955	0.00084		0.64235	0.00113		0.64028	0.00080	38064
206	5023		0.63947	0.64588	0.63123		0.64041	0.00089
0.63959	0.00083		0.64228	0.00112		0.64030	0.00079	38466
207	4825		0.63354	0.63089	0.63466		0.64036	0.00088
0.63953	0.00083		0.64223	0.00112		0.64024	0.00079	38516

208	4924		0.63244	0.62986	0.62976		0.64031	0.00088
0.63947	0.00083		0.64215	0.00111		0.64018	0.00079	38473
209	5006		0.64287	0.64796	0.63441		0.64033	0.00087
0.63952	0.00082		0.64210	0.00111		0.64021	0.00078	38846
210	5123		0.63088	0.62308	0.63467		0.64027	0.00087
0.63942	0.00082		0.64206	0.00110		0.64014	0.00079	38469

211	4889		0.64446	0.64687	0.63333		0.64030	0.00086
0.63947	0.00082		0.64200	0.00109		0.64016	0.00078	38840
212	5079		0.66163	0.65711	0.65740		0.64043	0.00087
0.63958	0.00082		0.64210	0.00109		0.64026	0.00078	38391
213	5112		0.63693	0.65088	0.66513		0.64041	0.00086
0.63964	0.00082		0.64224	0.00109		0.64036	0.00078	38134
214	4876		0.63286	0.63891	0.62130		0.64036	0.00086
0.63964	0.00082		0.64211	0.00110		0.64031	0.00078	38445
215	4945		0.63385	0.63238	0.62914		0.64032	0.00086
0.63960	0.00081		0.64203	0.00109		0.64026	0.00077	38513
216	5019		0.63315	0.63271	0.63234		0.64028	0.00085
0.63955	0.00081		0.64198	0.00109		0.64021	0.00077	38585
217	5028		0.63807	0.63257	0.63634		0.64027	0.00085
0.63951	0.00080		0.64194	0.00108		0.64017	0.00077	38649
218	5055		0.64778	0.65422	0.64250		0.64031	0.00084
0.63960	0.00080		0.64194	0.00107		0.64025	0.00076	38723
219	5112		0.63582	0.63449	0.64393		0.64028	0.00084
0.63957	0.00080		0.64196	0.00107		0.64024	0.00076	38865
220	4910		0.64374	0.64311	0.65173		0.64030	0.00083
0.63959	0.00080		0.64201	0.00106		0.64027	0.00076	39028

221	5029		0.63432	0.63119	0.62415		0.64027	0.00083
0.63954	0.00079		0.64191	0.00106		0.64020	0.00076	38993
222	4897		0.63046	0.62726	0.63515		0.64021	0.00083
0.63947	0.00079		0.64187	0.00106		0.64014	0.00075	38877
223	5001		0.66686	0.65919	0.64454		0.64037	0.00084
0.63958	0.00079		0.64189	0.00105		0.64023	0.00076	38593
224	5324		0.64733	0.64409	0.64829		0.64041	0.00083
0.63961	0.00079		0.64192	0.00104		0.64026	0.00075	38708
225	4831		0.65251	0.64054	0.65456		0.64048	0.00083
0.63962	0.00079		0.64199	0.00104		0.64028	0.00075	38776
226	5000		0.65062	0.64299	0.62742		0.64053	0.00083
0.63964	0.00078		0.64191	0.00104		0.64027	0.00074	38985
227	4953		0.64838	0.64192	0.66012		0.64058	0.00082
0.63965	0.00078		0.64201	0.00104		0.64029	0.00074	38995
228	4977		0.62434	0.62931	0.61311		0.64049	0.00082
0.63959	0.00078		0.64185	0.00104		0.64018	0.00074	38762
229	4800		0.65486	0.65197	0.64178		0.64057	0.00082
0.63966	0.00077		0.64185	0.00104		0.64024	0.00074	38830
230	5207		0.62862	0.63041	0.61899		0.64050	0.00082
0.63961	0.00077		0.64172	0.00104		0.64015	0.00074	38695

231	4784		0.65329	0.65889	0.64482		0.64057	0.00082
0.63971	0.00077		0.64174	0.00104		0.64026	0.00074	38536

232	5164		0.66451	0.65614	0.66101		0.64070	0.00083
0.63980	0.00078		0.64185	0.00104		0.64033	0.00074	38042
233	5058		0.64766	0.66353	0.66646		0.64074	0.00082
0.63993	0.00078		0.64198	0.00104		0.64051	0.00075	37218
234	4868		0.63970	0.64372	0.66359		0.64074	0.00082
0.63995	0.00078		0.64210	0.00104		0.64055	0.00075	37261
235	5005		0.61799	0.61692	0.61047		0.64061	0.00082
0.63983	0.00078		0.64193	0.00105		0.64040	0.00075	36193
236	4844		0.62800	0.62901	0.63721		0.64054	0.00082
0.63977	0.00078		0.64190	0.00104		0.64035	0.00075	36220
237	5086		0.64146	0.65349	0.64470		0.64055	0.00082
0.63985	0.00078		0.64192	0.00104		0.64042	0.00075	36377
238	5103		0.64404	0.64433	0.63883		0.64057	0.00081
0.63987	0.00078		0.64190	0.00103		0.64044	0.00074	36613
239	5030		0.65854	0.66079	0.65006		0.64066	0.00081
0.63998	0.00078		0.64195	0.00103		0.64054	0.00075	36328
240	5075		0.64386	0.64788	0.62802		0.64068	0.00081
0.64002	0.00078		0.64187	0.00102		0.64056	0.00074	36628

241	4911		0.64667	0.64540	0.65782		0.64071	0.00081
0.64005	0.00077		0.64196	0.00102		0.64060	0.00074	36663
242	5035		0.62817	0.63836	0.61782		0.64065	0.00081
0.64004	0.00077		0.64183	0.00102		0.64054	0.00073	36847
243	4909		0.61935	0.62361	0.59332		0.64054	0.00081
0.63996	0.00077		0.64158	0.00105		0.64038	0.00074	36017
244	4937		0.65710	0.65422	0.65380		0.64062	0.00081
0.64003	0.00077		0.64164	0.00105		0.64045	0.00074	35880
245	5305		0.65153	0.64868	0.65129		0.64068	0.00081
0.64007	0.00077		0.64169	0.00104		0.64049	0.00074	35920
246	4942		0.61675	0.62684	0.64371		0.64055	0.00081
0.64001	0.00077		0.64170	0.00104		0.64044	0.00074	35936
247	4703		0.65544	0.64864	0.65500		0.64063	0.00081
0.64005	0.00076		0.64177	0.00103		0.64048	0.00074	35944
248	5370		0.64635	0.65049	0.63898		0.64066	0.00081
0.64010	0.00076		0.64175	0.00103		0.64053	0.00073	36110
249	4896		0.61467	0.63408	0.62626		0.64053	0.00081
0.64007	0.00076		0.64168	0.00103		0.64047	0.00073	36262
250	4730		0.64604	0.64691	0.65133		0.64056	0.00081
0.64011	0.00076		0.64172	0.00102		0.64051	0.00073	36369

251	5281		0.65785	0.66049	0.65551		0.64064	0.00081
0.64021	0.00076		0.64179	0.00102		0.64061	0.00073	35992
252	5080		0.63761	0.64211	0.63858		0.64063	0.00081
0.64022	0.00076		0.64178	0.00101		0.64061	0.00072	36210
253	4862		0.62302	0.62707	0.63204		0.64054	0.00081
0.64015	0.00075		0.64173	0.00101		0.64055	0.00072	36131
254	4845		0.62280	0.62171	0.61581		0.64045	0.00081
0.64006	0.00076		0.64160	0.00101		0.64045	0.00073	35633
255	5021		0.62008	0.61909	0.64136		0.64035	0.00081
0.63996	0.00076		0.64160	0.00101		0.64038	0.00073	35325
256	5035		0.63554	0.63359	0.64784		0.64033	0.00081
0.63993	0.00076		0.64163	0.00100		0.64037	0.00072	35445

257	5106		0.63187	0.63927	0.62203		0.64029	0.00080
0.63993	0.00075		0.64154	0.00100		0.64034	0.00072	35642
258	4981		0.65166	0.63923	0.67335		0.64034	0.00080
0.63992	0.00075		0.64169	0.00101		0.64036	0.00072	35653
259	5173		0.64054	0.64420	0.63204		0.64035	0.00080
0.63994	0.00075		0.64164	0.00101		0.64037	0.00072	35887
260	4932		0.63251	0.63202	0.63639		0.64031	0.00080
0.63991	0.00074		0.64162	0.00100		0.64033	0.00071	35970

261	4925		0.63072	0.63883	0.63904		0.64026	0.00079
0.63990	0.00074		0.64161	0.00100		0.64033	0.00071	36166
262	5003		0.64559	0.65132	0.65255		0.64029	0.00079
0.63995	0.00074		0.64166	0.00099		0.64038	0.00071	36134
263	5131		0.65375	0.65165	0.65004		0.64035	0.00079
0.64001	0.00074		0.64170	0.00099		0.64043	0.00071	36142
264	5094		0.64357	0.63707	0.62512		0.64037	0.00078
0.64000	0.00073		0.64162	0.00099		0.64040	0.00070	36284
265	4931		0.62810	0.64078	0.62357		0.64031	0.00078
0.64000	0.00073		0.64154	0.00099		0.64038	0.00070	36505
266	4884		0.64140	0.64648	0.64435		0.64031	0.00078
0.64003	0.00073		0.64155	0.00098		0.64041	0.00070	36661
267	5135		0.65309	0.65283	0.65405		0.64037	0.00078
0.64009	0.00073		0.64161	0.00098		0.64046	0.00070	36582
268	5088		0.62975	0.63498	0.63443		0.64032	0.00078
0.64006	0.00072		0.64157	0.00098		0.64044	0.00069	36715
269	4836		0.65115	0.65136	0.65051		0.64037	0.00077
0.64012	0.00072		0.64161	0.00097		0.64049	0.00069	36733
270	5194		0.64985	0.65177	0.64429		0.64042	0.00077
0.64017	0.00072		0.64163	0.00097		0.64053	0.00069	36804

271	5000		0.62329	0.62689	0.65119		0.64034	0.00077
0.64011	0.00072		0.64167	0.00097		0.64051	0.00069	36833
272	4846		0.63492	0.64077	0.63246		0.64031	0.00077
0.64011	0.00072		0.64163	0.00096		0.64050	0.00069	37039
273	5061		0.63705	0.63390	0.61914		0.64030	0.00077
0.64008	0.00071		0.64153	0.00096		0.64045	0.00068	37081
274	5065		0.64804	0.64644	0.66629		0.64033	0.00076
0.64011	0.00071		0.64164	0.00096		0.64049	0.00068	37028
275	5105		0.63395	0.62966	0.63163		0.64031	0.00076
0.64007	0.00071		0.64159	0.00096		0.64044	0.00068	37019
276	4887		0.63099	0.62950	0.62580		0.64027	0.00076
0.64002	0.00071		0.64152	0.00096		0.64039	0.00068	36981
277	4945		0.64840	0.65001	0.65310		0.64030	0.00076
0.64006	0.00071		0.64157	0.00096		0.64043	0.00068	36995
278	5201		0.64377	0.64809	0.62348		0.64032	0.00075
0.64010	0.00070		0.64150	0.00096		0.64044	0.00067	37244
279	4971		0.64259	0.65146	0.64902		0.64033	0.00075
0.64015	0.00070		0.64153	0.00095		0.64049	0.00067	37268
280	4996		0.64056	0.64387	0.62843		0.64033	0.00075
0.64016	0.00070		0.64147	0.00095		0.64048	0.00067	37493

281	4933		0.62739	0.62399	0.62723		0.64027	0.00074
0.64009	0.00070		0.64141	0.00095		0.64042	0.00067	37266
282	4919		0.63956	0.64550	0.64268		0.64027	0.00074
0.64012	0.00070		0.64142	0.00094		0.64043	0.00067	37425
283	5088		0.64740	0.65250	0.64894		0.64030	0.00074
0.64017	0.00070		0.64145	0.00094		0.64048	0.00067	37425
284	5044		0.64497	0.65786	0.65648		0.64032	0.00074
0.64025	0.00070		0.64151	0.00094		0.64055	0.00067	37185
285	5027		0.65895	0.64698	0.62897		0.64040	0.00074
0.64027	0.00070		0.64146	0.00094		0.64056	0.00066	37414
286	5076		0.62355	0.62655	0.60755		0.64033	0.00074
0.64022	0.00069		0.64131	0.00094		0.64048	0.00067	37073
287	4750		0.65383	0.65411	0.66099		0.64038	0.00074
0.64028	0.00069		0.64140	0.00094		0.64054	0.00067	36906
288	5225		0.65029	0.65948	0.64702		0.64043	0.00073
0.64036	0.00070		0.64142	0.00094		0.64061	0.00067	36752
289	5002		0.63596	0.63411	0.63855		0.64041	0.00073
0.64033	0.00069		0.64141	0.00093		0.64058	0.00066	36868
290	4866		0.62830	0.63428	0.64167		0.64036	0.00073
0.64030	0.00069		0.64141	0.00093		0.64056	0.00066	36975

291	4929		0.64838	0.63987	0.65450		0.64039	0.00073
0.64030	0.00069		0.64146	0.00093		0.64058	0.00066	37116
292	5184		0.64818	0.64115	0.64798		0.64042	0.00073
0.64031	0.00069		0.64149	0.00093		0.64059	0.00066	37259
293	4984		0.64496	0.63836	0.65900		0.64044	0.00072
0.64030	0.00068		0.64156	0.00092		0.64060	0.00065	37360
294	4949		0.64649	0.64206	0.63802		0.64046	0.00072
0.64031	0.00068		0.64155	0.00092		0.64060	0.00065	37520
295	5015		0.63886	0.65370	0.63383		0.64046	0.00072
0.64036	0.00068		0.64152	0.00092		0.64064	0.00065	37625
296	4976		0.65747	0.64826	0.65547		0.64053	0.00072
0.64039	0.00068		0.64157	0.00092		0.64068	0.00065	37625
297	5159		0.64907	0.65910	0.64964		0.64056	0.00072
0.64047	0.00068		0.64161	0.00091		0.64074	0.00065	37437
298	4970		0.63770	0.63251	0.63131		0.64055	0.00071
0.64044	0.00068		0.64157	0.00091		0.64071	0.00065	37488
299	4900		0.64756	0.64665	0.63241		0.64058	0.00071
0.64046	0.00067		0.64153	0.00091		0.64072	0.00064	37672
300	5057		0.63166	0.63436	0.62998		0.64054	0.00071
0.64044	0.00067		0.64148	0.00090		0.64069	0.00064	37750

301	4865		0.63997	0.64904	0.64923		0.64054	0.00071
0.64047	0.00067		0.64151	0.00090		0.64072	0.00064	37836
302	5068		0.64533	0.64206	0.64904		0.64056	0.00070
0.64048	0.00067		0.64154	0.00090		0.64073	0.00064	37978
303	5056		0.64600	0.64066	0.63077		0.64058	0.00070
0.64048	0.00067		0.64150	0.00090		0.64072	0.00064	38163
304	4985		0.63318	0.62078	0.64347		0.64055	0.00070
0.64040	0.00067		0.64151	0.00089		0.64068	0.00064	38020
305	4907		0.63869	0.64004	0.63960		0.64054	0.00070
0.64040	0.00066		0.64150	0.00089		0.64067	0.00063	38185

306	5038		0.63628	0.63772	0.62486		0.64053	0.00069
0.64039	0.00066		0.64144	0.00089		0.64065	0.00063	38314
307	4985		0.63155	0.63643	0.62781		0.64049	0.00069
0.64037	0.00066		0.64138	0.00089		0.64062	0.00063	38415
308	4944		0.63760	0.64029	0.62800		0.64048	0.00069
0.64037	0.00066		0.64133	0.00088		0.64060	0.00063	38579
309	5035		0.64176	0.63679	0.64508		0.64049	0.00069
0.64036	0.00065		0.64135	0.00088		0.64060	0.00062	38730
310	5046		0.65112	0.64980	0.64223		0.64053	0.00069
0.64040	0.00065		0.64135	0.00088		0.64063	0.00062	38829

311	5102		0.63297	0.63829	0.62495		0.64050	0.00068
0.64039	0.00065		0.64129	0.00088		0.64061	0.00062	38950
312	4845		0.63125	0.63672	0.61688		0.64046	0.00068
0.64037	0.00065		0.64119	0.00088		0.64057	0.00062	39016
313	5010		0.64415	0.64588	0.64308		0.64048	0.00068
0.64039	0.00065		0.64120	0.00087		0.64058	0.00062	39133
314	5099		0.64196	0.65473	0.64178		0.64048	0.00068
0.64045	0.00065		0.64120	0.00087		0.64062	0.00061	39149
315	5027		0.64813	0.64546	0.66340		0.64051	0.00067
0.64047	0.00064		0.64129	0.00087		0.64065	0.00061	39146
316	5047		0.64580	0.64972	0.63029		0.64053	0.00067
0.64050	0.00064		0.64124	0.00087		0.64067	0.00061	39293
317	5003		0.62345	0.62492	0.63641		0.64047	0.00067
0.64044	0.00064		0.64123	0.00087		0.64063	0.00061	39158
318	4861		0.64408	0.64631	0.62413		0.64048	0.00067
0.64047	0.00064		0.64116	0.00087		0.64063	0.00061	39351
319	5167		0.65797	0.65361	0.64103		0.64055	0.00067
0.64051	0.00064		0.64116	0.00086		0.64067	0.00061	39373
320	5108		0.63276	0.64495	0.63388		0.64052	0.00067
0.64053	0.00064		0.64114	0.00086		0.64067	0.00061	39531

321	4828		0.63306	0.63409	0.61149		0.64049	0.00067
0.64051	0.00064		0.64103	0.00086		0.64062	0.00060	39496
322	4992		0.63108	0.64004	0.63924		0.64046	0.00067
0.64051	0.00063		0.64102	0.00086		0.64062	0.00060	39642
323	5004		0.64786	0.65217	0.64512		0.64048	0.00066
0.64055	0.00063		0.64103	0.00086		0.64065	0.00060	39681
324	5185		0.62689	0.62495	0.59746		0.64043	0.00066
0.64049	0.00063		0.64088	0.00087		0.64056	0.00060	39168
325	4794		0.65218	0.64577	0.65963		0.64048	0.00066
0.64051	0.00063		0.64094	0.00087		0.64060	0.00060	39220
326	5179		0.64552	0.65248	0.65723		0.64049	0.00066
0.64055	0.00063		0.64100	0.00087		0.64064	0.00060	39168
327	4962		0.64893	0.64206	0.62914		0.64052	0.00066
0.64056	0.00063		0.64096	0.00086		0.64064	0.00060	39346
328	5023		0.64703	0.63907	0.63229		0.64055	0.00066
0.64055	0.00063		0.64093	0.00086		0.64063	0.00060	39509
329	4928		0.64901	0.65353	0.65291		0.64058	0.00065
0.64060	0.00063		0.64097	0.00086		0.64067	0.00060	39467
330	5019		0.64971	0.64040	0.63815		0.64061	0.00065
0.64060	0.00062		0.64096	0.00086		0.64068	0.00059	39631

331 5042 | 0.64336 0.64611 0.64415 | 0.64062 0.00065
0.64062 0.00062 0.64097 0.00085 | 0.64069 0.00059 39760
332 4947 | 0.62716 0.62708 0.64196 | 0.64057 0.00065
0.64057 0.00062 0.64098 0.00085 | 0.64066 0.00059 39734
333 4888 | 0.64687 0.63852 0.65288 | 0.64060 0.00065
0.64056 0.00062 0.64102 0.00085 | 0.64066 0.00059 39878
334 5169 | 0.63163 0.63579 0.63974 | 0.64056 0.00065
0.64055 0.00062 0.64101 0.00085 | 0.64065 0.00059 39985
335 4897 | 0.63958 0.63494 0.63631 | 0.64056 0.00064
0.64053 0.00061 0.64100 0.00084 | 0.64063 0.00059 40098
336 5039 | 0.63948 0.63192 0.64598 | 0.64056 0.00064
0.64050 0.00061 0.64101 0.00084 | 0.64061 0.00058 40203
337 4976 | 0.63826 0.63213 0.63078 | 0.64055 0.00064
0.64047 0.00061 0.64098 0.00084 | 0.64059 0.00058 40265
338 4996 | 0.63267 0.63235 0.62136 | 0.64052 0.00064
0.64044 0.00061 0.64091 0.00084 | 0.64055 0.00058 40257
339 4913 | 0.65526 0.65950 0.64917 | 0.64057 0.00064
0.64051 0.00061 0.64094 0.00084 | 0.64061 0.00058 40059
340 5217 | 0.63757 0.63285 0.63242 | 0.64056 0.00064
0.64048 0.00061 0.64091 0.00083 | 0.64058 0.00058 40124

341 4860 | 0.66233 0.65533 0.64562 | 0.64064 0.00064
0.64053 0.00061 0.64093 0.00083 | 0.64063 0.00058 40021
342 5189 | 0.64898 0.64343 0.62251 | 0.64067 0.00064
0.64054 0.00061 0.64086 0.00083 | 0.64063 0.00058 40172
343 4894 | 0.64004 0.64473 0.64074 | 0.64066 0.00064
0.64055 0.00061 0.64086 0.00083 | 0.64064 0.00058 40319
344 4957 | 0.65226 0.65093 0.66300 | 0.64070 0.00063
0.64059 0.00061 0.64094 0.00083 | 0.64068 0.00058 40229
345 5070 | 0.62990 0.63332 0.61790 | 0.64067 0.00063
0.64057 0.00060 0.64086 0.00083 | 0.64064 0.00058 40198
346 4834 | 0.65083 0.64247 0.62493 | 0.64070 0.00063
0.64057 0.00060 0.64081 0.00083 | 0.64064 0.00057 40348
347 5202 | 0.63447 0.63580 0.62815 | 0.64068 0.00063
0.64056 0.00060 0.64076 0.00083 | 0.64062 0.00057 40426
348 4859 | 0.63725 0.64187 0.65254 | 0.64067 0.00063
0.64056 0.00060 0.64080 0.00082 | 0.64063 0.00057 40568
349 4995 | 0.63632 0.64829 0.62064 | 0.64065 0.00063
0.64059 0.00060 0.64074 0.00082 | 0.64063 0.00057 40728
350 4980 | 0.63525 0.63970 0.63109 | 0.64064 0.00062
0.64058 0.00059 0.64070 0.00082 | 0.64062 0.00057 40859

351 4970 | 0.64945 0.63755 0.65713 | 0.64066 0.00062
0.64057 0.00059 0.64076 0.00082 | 0.64062 0.00056 40987
352 5098 | 0.62925 0.62586 0.65289 | 0.64063 0.00062
0.64052 0.00059 0.64080 0.00082 | 0.64060 0.00056 41008
353 4834 | 0.63248 0.63873 0.61659 | 0.64060 0.00062
0.64052 0.00059 0.64072 0.00082 | 0.64057 0.00056 41083
354 5009 | 0.63912 0.64570 0.63583 | 0.64059 0.00062
0.64054 0.00059 0.64070 0.00082 | 0.64058 0.00056 41228

355	5074		0.63138	0.63440	0.63511		0.64056	0.00062
0.64052	0.00059		0.64068	0.00082		0.64056	0.00056	41306
356	4924		0.64473	0.64635	0.61865		0.64058	0.00062
0.64053	0.00059		0.64061	0.00082		0.64056	0.00056	41460
357	5038		0.65566	0.64704	0.65798		0.64063	0.00062
0.64056	0.00058		0.64067	0.00082		0.64059	0.00056	41465
358	5057		0.63593	0.63822	0.63086		0.64061	0.00061
0.64055	0.00058		0.64064	0.00081		0.64058	0.00055	41581
359	4829		0.64657	0.65448	0.67266		0.64063	0.00061
0.64059	0.00058		0.64074	0.00082		0.64063	0.00056	41366
360	5128		0.63565	0.64091	0.61911		0.64062	0.00061
0.64059	0.00058		0.64067	0.00082		0.64061	0.00055	41473

361	4921		0.65119	0.65264	0.64445		0.64065	0.00061
0.64063	0.00058		0.64068	0.00082		0.64065	0.00055	41481
362	5127		0.62688	0.62245	0.61900		0.64061	0.00061
0.64057	0.00058		0.64061	0.00082		0.64059	0.00055	41147
363	4826		0.62730	0.63182	0.64936		0.64056	0.00061
0.64055	0.00058		0.64064	0.00081		0.64057	0.00055	41232
364	5015		0.65902	0.65874	0.66549		0.64062	0.00061
0.64060	0.00058		0.64072	0.00081		0.64063	0.00055	40863
365	5277		0.63778	0.63076	0.62448		0.64061	0.00061
0.64057	0.00058		0.64067	0.00081		0.64060	0.00055	40858
366	4857		0.66291	0.66554	0.63720		0.64068	0.00061
0.64065	0.00058		0.64066	0.00081		0.64066	0.00056	40537
367	5196		0.64027	0.64291	0.62465		0.64068	0.00061
0.64066	0.00058		0.64061	0.00081		0.64065	0.00055	40666
368	4791		0.64311	0.63995	0.66339		0.64069	0.00061
0.64066	0.00058		0.64068	0.00081		0.64067	0.00055	40784
369	5045		0.65071	0.65697	0.64329		0.64072	0.00060
0.64071	0.00058		0.64069	0.00081		0.64071	0.00055	40722
370	5064		0.65715	0.65383	0.64556		0.64077	0.00060
0.64075	0.00058		0.64070	0.00081		0.64074	0.00055	40674

371	5076		0.63418	0.64042	0.63089		0.64075	0.00060
0.64075	0.00058		0.64067	0.00080		0.64073	0.00055	40792
372	4796		0.64051	0.64314	0.64407		0.64075	0.00060
0.64076	0.00058		0.64068	0.00080		0.64074	0.00055	40923
373	5027		0.64181	0.63348	0.63931		0.64075	0.00060
0.64073	0.00058		0.64068	0.00080		0.64073	0.00055	41023
374	5035		0.65096	0.65074	0.64895		0.64079	0.00060
0.64076	0.00057		0.64070	0.00080		0.64076	0.00055	41040
375	5093		0.63421	0.63634	0.63847		0.64077	0.00060
0.64075	0.00057		0.64070	0.00079		0.64074	0.00054	41140
376	4920		0.63637	0.63123	0.64143		0.64075	0.00060
0.64072	0.00057		0.64070	0.00079		0.64072	0.00054	41213
377	4973		0.62986	0.63433	0.64216		0.64072	0.00059
0.64070	0.00057		0.64070	0.00079		0.64071	0.00054	41304
378	4976		0.65210	0.65579	0.65395		0.64075	0.00059
0.64075	0.00057		0.64074	0.00079		0.64075	0.00054	41190
379	5167		0.62217	0.62461	0.61579		0.64070	0.00059
0.64070	0.00057		0.64067	0.00079		0.64069	0.00054	40865

380 4762 | 0.64936 0.64481 0.65261 | 0.64072 0.00059
0.64071 0.00057 0.64070 0.00079 | 0.64071 0.00054 40951

381 5208 | 0.65817 0.66635 0.65119 | 0.64078 0.00059
0.64079 0.00057 0.64074 0.00079 | 0.64078 0.00054 40528
382 5054 | 0.64344 0.63850 0.65105 | 0.64078 0.00059
0.64078 0.00057 0.64077 0.00078 | 0.64078 0.00054 40656
383 4869 | 0.63764 0.64351 0.63477 | 0.64077 0.00059
0.64079 0.00057 0.64075 0.00078 | 0.64078 0.00054 40790
384 4955 | 0.61741 0.61730 0.61323 | 0.64070 0.00059
0.64072 0.00057 0.64067 0.00078 | 0.64071 0.00054 40166
385 4816 | 0.64971 0.64364 0.62310 | 0.64073 0.00059
0.64073 0.00057 0.64061 0.00078 | 0.64071 0.00054 40295
386 5234 | 0.62973 0.63388 0.62495 | 0.64070 0.00059
0.64071 0.00057 0.64057 0.00078 | 0.64068 0.00054 40300
387 4821 | 0.63106 0.62687 0.62958 | 0.64067 0.00059
0.64067 0.00057 0.64053 0.00078 | 0.64064 0.00054 40231
388 5005 | 0.61653 0.62521 0.61982 | 0.64060 0.00059
0.64062 0.00057 0.64047 0.00078 | 0.64059 0.00054 39944
389 4892 | 0.63894 0.63708 0.64352 | 0.64059 0.00059
0.64061 0.00057 0.64048 0.00078 | 0.64058 0.00054 40067
390 5249 | 0.64321 0.64533 0.64026 | 0.64060 0.00059
0.64062 0.00057 0.64048 0.00078 | 0.64059 0.00054 40175

391 5033 | 0.64811 0.64894 0.64775 | 0.64062 0.00059
0.64065 0.00056 0.64050 0.00077 | 0.64061 0.00054 40232
392 5018 | 0.64755 0.64514 0.64943 | 0.64064 0.00059
0.64066 0.00056 0.64053 0.00077 | 0.64063 0.00054 40320
393 4942 | 0.64870 0.64826 0.64750 | 0.64067 0.00058
0.64068 0.00056 0.64055 0.00077 | 0.64065 0.00054 40380
394 5012 | 0.63193 0.62960 0.65274 | 0.64064 0.00058
0.64065 0.00056 0.64059 0.00077 | 0.64064 0.00053 40457
395 4907 | 0.60878 0.61434 0.63497 | 0.64055 0.00059
0.64058 0.00056 0.64057 0.00077 | 0.64057 0.00054 39940
396 4770 | 0.63856 0.63956 0.65850 | 0.64054 0.00059
0.64057 0.00056 0.64062 0.00077 | 0.64058 0.00054 40058
397 5261 | 0.64312 0.64272 0.64954 | 0.64055 0.00059
0.64058 0.00056 0.64065 0.00077 | 0.64059 0.00053 40164
398 5045 | 0.62645 0.62744 0.65293 | 0.64051 0.00059
0.64054 0.00056 0.64068 0.00076 | 0.64057 0.00053 40202
399 4866 | 0.66299 0.65984 0.64603 | 0.64057 0.00059
0.64060 0.00056 0.64070 0.00076 | 0.64062 0.00053 40018
400 5339 | 0.62984 0.62777 0.62732 | 0.64054 0.00059
0.64056 0.00056 0.64066 0.00076 | 0.64058 0.00053 39937

401 4748 | 0.66602 0.65623 0.66672 | 0.64062 0.00059
0.64060 0.00056 0.64073 0.00076 | 0.64063 0.00053 39650
402 5290 | 0.61913 0.62350 0.61439 | 0.64056 0.00059
0.64056 0.00056 0.64066 0.00076 | 0.64058 0.00054 39314
403 4644 | 0.63670 0.63240 0.63798 | 0.64054 0.00059
0.64053 0.00056 0.64065 0.00076 | 0.64056 0.00053 39389

404	5131		0.65685	0.65533	0.67725		0.64059	0.00059
0.64057	0.00056		0.64075	0.00077		0.64061	0.00054	39085
405	5209		0.65499	0.65240	0.65095		0.64063	0.00059
0.64061	0.00056		0.64078	0.00076		0.64065	0.00054	39055
406	4991		0.64263	0.64669	0.63419		0.64064	0.00059
0.64063	0.00056		0.64076	0.00076		0.64066	0.00053	39170
407	4877		0.65543	0.65180	0.62374		0.64068	0.00059
0.64066	0.00056		0.64072	0.00076		0.64067	0.00053	39262
408	5046		0.64459	0.64487	0.65269		0.64069	0.00059
0.64067	0.00056		0.64075	0.00076		0.64069	0.00053	39347
409	4891		0.64677	0.64055	0.64917		0.64071	0.00058
0.64067	0.00056		0.64077	0.00076		0.64070	0.00053	39457
410	5011		0.63738	0.64518	0.63105		0.64070	0.00058
0.64068	0.00055		0.64075	0.00076		0.64070	0.00053	39575

411	4906		0.63267	0.63514	0.65393		0.64067	0.00058
0.64066	0.00055		0.64078	0.00076		0.64069	0.00053	39684
412	4937		0.64890	0.64350	0.65815		0.64070	0.00058
0.64067	0.00055		0.64083	0.00076		0.64071	0.00053	39752
413	5118		0.66355	0.65846	0.65301		0.64076	0.00058
0.64072	0.00055		0.64086	0.00075		0.64076	0.00053	39556
414	5099		0.65096	0.64772	0.66780		0.64079	0.00058
0.64074	0.00055		0.64094	0.00076		0.64079	0.00053	39527
415	4867		0.63453	0.63363	0.63273		0.64077	0.00058
0.64072	0.00055		0.64092	0.00075		0.64077	0.00053	39581
416	4868		0.64529	0.64470	0.62711		0.64078	0.00058
0.64073	0.00055		0.64088	0.00075		0.64077	0.00052	39702
417	5112		0.63333	0.62690	0.63152		0.64076	0.00058
0.64069	0.00055		0.64085	0.00075		0.64074	0.00052	39643
418	4881		0.63848	0.65669	0.60114		0.64076	0.00058
0.64074	0.00055		0.64074	0.00076		0.64074	0.00052	39767
419	5025		0.62729	0.62282	0.63557		0.64072	0.00058
0.64069	0.00055		0.64073	0.00076		0.64070	0.00052	39639
420	4898		0.62948	0.62454	0.64355		0.64069	0.00057
0.64065	0.00055		0.64074	0.00075		0.64067	0.00052	39607

421	5048		0.63591	0.63413	0.64700		0.64068	0.00057
0.64063	0.00055		0.64076	0.00075		0.64066	0.00052	39702
422	5032		0.65490	0.65011	0.64798		0.64072	0.00057
0.64065	0.00055		0.64077	0.00075		0.64069	0.00052	39722
423	5179		0.63269	0.63276	0.65358		0.64069	0.00057
0.64063	0.00055		0.64081	0.00075		0.64068	0.00052	39815
424	4819		0.63837	0.63592	0.66538		0.64069	0.00057
0.64062	0.00054		0.64087	0.00075		0.64069	0.00052	39919
425	5057		0.63599	0.63453	0.62257		0.64068	0.00057
0.64060	0.00054		0.64083	0.00075		0.64066	0.00052	39945
426	4960		0.65188	0.64687	0.63196		0.64071	0.00057
0.64062	0.00054		0.64080	0.00075		0.64067	0.00051	40048
427	5099		0.65069	0.64806	0.63743		0.64073	0.00057
0.64064	0.00054		0.64079	0.00075		0.64069	0.00051	40132
428	4967		0.64056	0.63302	0.62128		0.64073	0.00057
0.64062	0.00054		0.64074	0.00075		0.64066	0.00051	40141

429	4915		0.63064	0.63578	0.62626		0.64070	0.00057
0.64061	0.00054		0.64070	0.00074		0.64064	0.00051	40190
430	4900		0.62730	0.64152	0.64125		0.64067	0.00056
0.64061	0.00054		0.64070	0.00074		0.64064	0.00051	40310

431	4999		0.63800	0.63508	0.64180		0.64066	0.00056
0.64060	0.00054		0.64071	0.00074		0.64063	0.00051	40404
432	5055		0.64606	0.64173	0.63254		0.64068	0.00056
0.64060	0.00054		0.64069	0.00074		0.64063	0.00051	40514
433	5065		0.64216	0.63388	0.63412		0.64068	0.00056
0.64058	0.00053		0.64067	0.00074		0.64061	0.00051	40583
434	4994		0.63891	0.63140	0.64687		0.64068	0.00056
0.64056	0.00053		0.64069	0.00074		0.64060	0.00051	40662
435	4999		0.64013	0.63383	0.65442		0.64067	0.00056
0.64054	0.00053		0.64072	0.00073		0.64060	0.00050	40767
436	4996		0.62231	0.62944	0.63412		0.64063	0.00056
0.64051	0.00053		0.64070	0.00073		0.64057	0.00050	40746
437	4877		0.64654	0.65120	0.63859		0.64064	0.00056
0.64054	0.00053		0.64070	0.00073		0.64059	0.00050	40813
438	5200		0.63789	0.64240	0.63713		0.64063	0.00056
0.64054	0.00053		0.64069	0.00073		0.64059	0.00050	40924
439	4955		0.64454	0.63378	0.65074		0.64064	0.00055
0.64053	0.00053		0.64072	0.00073		0.64058	0.00050	41024
440	5063		0.65184	0.64994	0.65135		0.64067	0.00055
0.64055	0.00053		0.64074	0.00073		0.64061	0.00050	41032

441	5091		0.64632	0.64469	0.63974		0.64069	0.00055
0.64056	0.00053		0.64074	0.00072		0.64062	0.00050	41132
442	4960		0.63870	0.63707	0.65294		0.64068	0.00055
0.64055	0.00053		0.64077	0.00072		0.64062	0.00050	41242
443	4921		0.64529	0.64373	0.66020		0.64069	0.00055
0.64056	0.00052		0.64082	0.00072		0.64063	0.00050	41303
444	5046		0.63517	0.63381	0.64430		0.64068	0.00055
0.64054	0.00052		0.64083	0.00072		0.64062	0.00049	41388
445	4957		0.63633	0.64152	0.62651		0.64067	0.00055
0.64054	0.00052		0.64079	0.00072		0.64062	0.00049	41493
446	5048		0.65932	0.67175	0.64782		0.64072	0.00055
0.64062	0.00053		0.64081	0.00072		0.64068	0.00050	41003
447	5181		0.62356	0.62391	0.63238		0.64067	0.00055
0.64058	0.00053		0.64079	0.00072		0.64064	0.00050	40864
448	4709		0.63355	0.63809	0.62258		0.64066	0.00055
0.64058	0.00053		0.64074	0.00072		0.64062	0.00050	40929
449	5050		0.65354	0.64593	0.66019		0.64069	0.00055
0.64059	0.00052		0.64079	0.00072		0.64065	0.00049	40941
450	5180		0.66122	0.66343	0.65596		0.64074	0.00055
0.64065	0.00053		0.64083	0.00072		0.64070	0.00050	40610

451	5079		0.62433	0.62833	0.61775		0.64070	0.00055
0.64062	0.00053		0.64077	0.00072		0.64066	0.00050	40467
452	4729		0.64666	0.64177	0.64446		0.64071	0.00055
0.64062	0.00052		0.64078	0.00071		0.64067	0.00050	40571

453	5225		0.64617	0.65020	0.65456		0.64073	0.00055
0.64064	0.00052		0.64082	0.00071		0.64069	0.00049	40580
454	4933		0.64320	0.64720	0.64216		0.64073	0.00054
0.64066	0.00052		0.64082	0.00071		0.64070	0.00049	40668
455	4949		0.64414	0.64502	0.64750		0.64074	0.00054
0.64067	0.00052		0.64084	0.00071		0.64072	0.00049	40757
456	4992		0.64594	0.63244	0.63940		0.64075	0.00054
0.64065	0.00052		0.64083	0.00071		0.64070	0.00049	40829
457	5033		0.63861	0.62997	0.61477		0.64075	0.00054
0.64062	0.00052		0.64077	0.00071		0.64067	0.00049	40752
458	4929		0.66107	0.66845	0.65095		0.64080	0.00054
0.64069	0.00052		0.64079	0.00071		0.64073	0.00049	40355
459	5164		0.65274	0.65097	0.63984		0.64083	0.00054
0.64072	0.00052		0.64079	0.00071		0.64075	0.00049	40398
460	4967		0.63556	0.63230	0.63955		0.64082	0.00054
0.64070	0.00052		0.64079	0.00070		0.64074	0.00049	40458

461	4844		0.63903	0.63218	0.64603		0.64081	0.00054
0.64067	0.00052		0.64080	0.00070		0.64073	0.00049	40539
462	5057		0.64250	0.63637	0.63663		0.64081	0.00054
0.64066	0.00052		0.64079	0.00070		0.64072	0.00049	40625
463	4999		0.64640	0.65293	0.64487		0.64083	0.00054
0.64069	0.00052		0.64080	0.00070		0.64074	0.00049	40654
464	5099		0.63354	0.63587	0.64261		0.64081	0.00053
0.64068	0.00052		0.64080	0.00070		0.64073	0.00049	40741
465	4931		0.63053	0.64009	0.64395		0.64079	0.00053
0.64068	0.00052		0.64081	0.00070		0.64073	0.00049	40849
466	4995		0.65527	0.65582	0.65996		0.64082	0.00053
0.64072	0.00052		0.64086	0.00070		0.64077	0.00049	40708
467	5188		0.63223	0.62929	0.63668		0.64080	0.00053
0.64069	0.00052		0.64085	0.00069		0.64074	0.00049	40715
468	4795		0.63520	0.63454	0.64893		0.64079	0.00053
0.64067	0.00051		0.64087	0.00069		0.64074	0.00048	40809
469	5034		0.64561	0.65226	0.63398		0.64080	0.00053
0.64070	0.00051		0.64085	0.00069		0.64075	0.00048	40884
470	5022		0.62972	0.63290	0.62630		0.64077	0.00053
0.64068	0.00051		0.64082	0.00069		0.64073	0.00048	40885

471	4856		0.64966	0.63487	0.63872		0.64079	0.00053
0.64067	0.00051		0.64081	0.00069		0.64072	0.00048	40973
472	5142		0.65395	0.65228	0.63414		0.64082	0.00053
0.64070	0.00051		0.64080	0.00069		0.64074	0.00048	41017
473	5005		0.63007	0.62443	0.63546		0.64080	0.00053
0.64066	0.00051		0.64078	0.00069		0.64071	0.00048	40942
474	4830		0.62984	0.63455	0.61413		0.64077	0.00053
0.64064	0.00051		0.64072	0.00069		0.64068	0.00048	40907
475	5031		0.63997	0.64703	0.64032		0.64077	0.00053
0.64066	0.00051		0.64072	0.00069		0.64069	0.00048	41002
476	5093		0.62644	0.63610	0.63067		0.64074	0.00053
0.64065	0.00051		0.64070	0.00069		0.64067	0.00048	41047
477	4874		0.64393	0.64169	0.65575		0.64074	0.00053
0.64065	0.00051		0.64073	0.00068		0.64069	0.00048	41133

478	5129		0.63674	0.64356	0.63747		0.64074	0.00052
0.64066	0.00051		0.64072	0.00068		0.64069	0.00048	41237
479	4916		0.63169	0.63385	0.62752		0.64071	0.00052
0.64064	0.00051		0.64069	0.00068		0.64067	0.00048	41263
480	4965		0.64487	0.64066	0.62248		0.64072	0.00052
0.64064	0.00050		0.64065	0.00068		0.64066	0.00048	41349

481	5071		0.63422	0.63277	0.62176		0.64071	0.00052
0.64062	0.00050		0.64061	0.00068		0.64063	0.00047	41341
482	4869		0.63243	0.62945	0.62734		0.64069	0.00052
0.64060	0.00050		0.64058	0.00068		0.64061	0.00047	41311
483	4942		0.63615	0.63715	0.65557		0.64068	0.00052
0.64059	0.00050		0.64061	0.00068		0.64061	0.00047	41416
484	5031		0.64356	0.63470	0.62815		0.64069	0.00052
0.64058	0.00050		0.64058	0.00068		0.64060	0.00047	41471
485	5042		0.63496	0.63149	0.64241		0.64067	0.00052
0.64056	0.00050		0.64059	0.00068		0.64058	0.00047	41526
486	4939		0.64331	0.63853	0.65149		0.64068	0.00052
0.64055	0.00050		0.64061	0.00068		0.64059	0.00047	41622
487	5104		0.65496	0.65682	0.66196		0.64071	0.00052
0.64059	0.00050		0.64066	0.00068		0.64063	0.00047	41446
488	5097		0.64601	0.64600	0.65712		0.64072	0.00051
0.64060	0.00050		0.64070	0.00068		0.64064	0.00047	41489
489	4953		0.62932	0.63022	0.62113		0.64070	0.00051
0.64058	0.00050		0.64065	0.00068		0.64062	0.00047	41427
490	4850		0.65519	0.64959	0.65162		0.64073	0.00051
0.64060	0.00050		0.64068	0.00067		0.64064	0.00047	41425

491	5174		0.61984	0.63065	0.63347		0.64068	0.00052
0.64058	0.00050		0.64066	0.00067		0.64061	0.00047	41399
492	4726		0.64565	0.64626	0.67644		0.64069	0.00051
0.64059	0.00050		0.64074	0.00068		0.64064	0.00047	41366
493	5205		0.64807	0.65006	0.65849		0.64071	0.00051
0.64061	0.00050		0.64078	0.00068		0.64066	0.00047	41352
494	4993		0.63294	0.61873	0.63481		0.64069	0.00051
0.64056	0.00050		0.64077	0.00068		0.64063	0.00047	41190
495	4869		0.62913	0.63379	0.60334		0.64067	0.00051
0.64054	0.00050		0.64069	0.00068		0.64060	0.00047	41094
496	4984		0.66472	0.66634	0.66352		0.64072	0.00051
0.64060	0.00050		0.64074	0.00068		0.64065	0.00047	40630
497	5244		0.64024	0.63424	0.63247		0.64072	0.00051
0.64059	0.00050		0.64072	0.00068		0.64064	0.00047	40686
498	4769		0.65263	0.64989	0.66426		0.64075	0.00051
0.64061	0.00050		0.64077	0.00068		0.64067	0.00047	40637
499	5096		0.63612	0.64421	0.65273		0.64074	0.00051
0.64062	0.00050		0.64080	0.00068		0.64068	0.00047	40723
500	4846		0.65355	0.64829	0.65922		0.64077	0.00051
0.64063	0.00049		0.64084	0.00068		0.64070	0.00047	40710

501	5114		0.64589	0.64637	0.66455		0.64078	0.00051
0.64065	0.00049		0.64089	0.00068		0.64072	0.00047	40728

502	4950		0.64169	0.63695	0.62598		0.64078	0.00051
0.64064	0.00049		0.64086	0.00068		0.64071	0.00047	40798
503	4923		0.65431	0.64779	0.64428		0.64081	0.00051
0.64065	0.00049		0.64087	0.00068		0.64073	0.00047	40841
504	5116		0.65921	0.65087	0.68436		0.64085	0.00051
0.64068	0.00049		0.64096	0.00068		0.64077	0.00047	40623
505	5023		0.64875	0.65547	0.64462		0.64087	0.00051
0.64071	0.00049		0.64097	0.00068		0.64079	0.00047	40617
506	4901		0.64094	0.64993	0.64449		0.64087	0.00051
0.64073	0.00049		0.64098	0.00068		0.64081	0.00047	40686
507	4910		0.62115	0.62147	0.62863		0.64082	0.00051
0.64069	0.00049		0.64095	0.00068		0.64077	0.00047	40477
508	4848		0.64821	0.64504	0.64770		0.64084	0.00051
0.64070	0.00049		0.64096	0.00068		0.64078	0.00047	40545
509	5220		0.62997	0.62861	0.64458		0.64082	0.00051
0.64067	0.00049		0.64097	0.00067		0.64076	0.00047	40557
510	4850		0.64185	0.64158	0.64550		0.64082	0.00050
0.64067	0.00049		0.64098	0.00067		0.64076	0.00046	40648

511	5073		0.63862	0.63944	0.63085		0.64081	0.00050
0.64067	0.00049		0.64096	0.00067		0.64076	0.00046	40732
512	4952		0.63512	0.63673	0.64780		0.64080	0.00050
0.64066	0.00049		0.64097	0.00067		0.64075	0.00046	40817
513	4993		0.63495	0.63202	0.62393		0.64079	0.00050
0.64064	0.00049		0.64094	0.00067		0.64073	0.00046	40820
514	5032		0.63371	0.63163	0.62743		0.64077	0.00050
0.64062	0.00049		0.64091	0.00067		0.64071	0.00046	40824
515	4965		0.64593	0.64572	0.65225		0.64078	0.00050
0.64063	0.00048		0.64093	0.00067		0.64072	0.00046	40882
516	5100		0.61424	0.62231	0.62283		0.64073	0.00050
0.64060	0.00049		0.64089	0.00067		0.64068	0.00046	40613
517	4783		0.63379	0.64021	0.63939		0.64071	0.00050
0.64059	0.00048		0.64089	0.00067		0.64068	0.00046	40705
518	5176		0.64226	0.64839	0.64194		0.64072	0.00050
0.64061	0.00048		0.64089	0.00067		0.64069	0.00046	40775
519	5070		0.62898	0.62989	0.63406		0.64069	0.00050
0.64059	0.00048		0.64088	0.00066		0.64067	0.00046	40769
520	4930		0.65812	0.64960	0.65856		0.64073	0.00050
0.64061	0.00048		0.64092	0.00066		0.64069	0.00046	40728

521	5257		0.64957	0.64635	0.63626		0.64075	0.00050
0.64062	0.00048		0.64091	0.00066		0.64070	0.00046	40802
522	4962		0.63494	0.62598	0.64529		0.64073	0.00050
0.64059	0.00048		0.64092	0.00066		0.64068	0.00046	40805
523	4898		0.63137	0.63022	0.65563		0.64071	0.00050
0.64057	0.00048		0.64095	0.00066		0.64067	0.00046	40864
524	4971		0.64964	0.65063	0.63879		0.64073	0.00050
0.64059	0.00048		0.64094	0.00066		0.64069	0.00046	40914
525	5143		0.63749	0.64441	0.63029		0.64073	0.00050
0.64060	0.00048		0.64092	0.00066		0.64069	0.00045	41009
526	4911		0.63815	0.63778	0.61831		0.64072	0.00050
0.64059	0.00048		0.64087	0.00066		0.64067	0.00045	41059

527	5021		0.63120	0.63540	0.63282		0.64070	0.00049
0.64058	0.00048		0.64086	0.00066		0.64066	0.00045	41109
528	4953		0.62528	0.62779	0.62748		0.64067	0.00049
0.64055	0.00048		0.64083	0.00066		0.64063	0.00045	41034
529	4915		0.62278	0.62023	0.64776		0.64063	0.00050
0.64051	0.00048		0.64084	0.00065		0.64060	0.00045	40931
530	5003		0.64126	0.63605	0.64879		0.64063	0.00049
0.64050	0.00048		0.64086	0.00065		0.64060	0.00045	41013

531	5133		0.62278	0.62675	0.63710		0.64060	0.00049
0.64047	0.00048		0.64085	0.00065		0.64057	0.00045	40959
532	4859		0.63454	0.63536	0.62884		0.64058	0.00049
0.64046	0.00048		0.64083	0.00065		0.64056	0.00045	41009
533	5135		0.66157	0.65656	0.63113		0.64063	0.00049
0.64049	0.00048		0.64081	0.00065		0.64058	0.00045	40995
534	5180		0.64384	0.64272	0.64875		0.64063	0.00049
0.64050	0.00048		0.64082	0.00065		0.64059	0.00045	41071
535	4868		0.63501	0.64281	0.63925		0.64062	0.00049
0.64050	0.00047		0.64082	0.00065		0.64059	0.00045	41165
536	4952		0.64645	0.63707	0.64372		0.64063	0.00049
0.64050	0.00047		0.64083	0.00065		0.64059	0.00045	41250
537	5156		0.64721	0.64244	0.65046		0.64065	0.00049
0.64050	0.00047		0.64084	0.00065		0.64060	0.00045	41319
538	4982		0.63116	0.62980	0.62841		0.64063	0.00049
0.64048	0.00047		0.64082	0.00064		0.64058	0.00045	41298
539	4900		0.64082	0.63736	0.62846		0.64063	0.00049
0.64047	0.00047		0.64079	0.00064		0.64057	0.00045	41367
540	5071		0.63508	0.64315	0.63123		0.64062	0.00049
0.64048	0.00047		0.64077	0.00064		0.64057	0.00045	41460

541	4954		0.63219	0.63232	0.63530		0.64060	0.00049
0.64046	0.00047		0.64076	0.00064		0.64055	0.00044	41492
542	4995		0.64289	0.64068	0.65039		0.64060	0.00049
0.64046	0.00047		0.64078	0.00064		0.64055	0.00044	41573
543	5063		0.62625	0.62554	0.62501		0.64058	0.00049
0.64043	0.00047		0.64075	0.00064		0.64052	0.00044	41455
544	4859		0.63851	0.64897	0.64729		0.64057	0.00049
0.64045	0.00047		0.64076	0.00064		0.64054	0.00044	41519
545	5153		0.64337	0.64137	0.63609		0.64058	0.00048
0.64045	0.00047		0.64075	0.00064		0.64054	0.00044	41606
546	5017		0.66622	0.65200	0.65946		0.64063	0.00049
0.64047	0.00047		0.64079	0.00064		0.64057	0.00044	41486
547	5166		0.63472	0.63214	0.64186		0.64062	0.00049
0.64046	0.00047		0.64079	0.00064		0.64056	0.00044	41535
548	4713		0.63133	0.63428	0.63856		0.64060	0.00049
0.64045	0.00047		0.64079	0.00064		0.64054	0.00044	41596
549	4969		0.65588	0.66279	0.63604		0.64063	0.00049
0.64049	0.00047		0.64078	0.00063		0.64058	0.00044	41500
550	5225		0.64277	0.64118	0.65837		0.64063	0.00048
0.64049	0.00047		0.64082	0.00063		0.64059	0.00044	41563

551	4882		0.63827	0.63896	0.62573		0.64063	0.00048
0.64049	0.00046		0.64079	0.00063		0.64058	0.00044	41632
552	4948		0.64906	0.64416	0.65212		0.64064	0.00048
0.64050	0.00046		0.64081	0.00063		0.64059	0.00044	41685
553	5069		0.65692	0.65741	0.65089		0.64068	0.00048
0.64053	0.00046		0.64083	0.00063		0.64062	0.00044	41580
554	5042		0.63805	0.63864	0.64962		0.64067	0.00048
0.64053	0.00046		0.64085	0.00063		0.64062	0.00044	41665
555	4886		0.63082	0.62846	0.63010		0.64065	0.00048
0.64050	0.00046		0.64082	0.00063		0.64060	0.00044	41635
556	4931		0.62621	0.61824	0.63018		0.64062	0.00048
0.64046	0.00046		0.64080	0.00063		0.64056	0.00044	41417
557	4954		0.63924	0.64090	0.64099		0.64062	0.00048
0.64046	0.00046		0.64080	0.00063		0.64056	0.00044	41505
558	5089		0.63799	0.63385	0.63464		0.64062	0.00048
0.64045	0.00046		0.64079	0.00063		0.64055	0.00044	41555
559	4972		0.63029	0.63218	0.66192		0.64060	0.00048
0.64043	0.00046		0.64083	0.00063		0.64055	0.00044	41631
560	4933		0.64276	0.64730	0.64694		0.64060	0.00048
0.64044	0.00046		0.64085	0.00063		0.64056	0.00044	41692

561	5100		0.61193	0.60987	0.59532		0.64054	0.00048
0.64038	0.00046		0.64076	0.00063		0.64049	0.00044	40830
562	4705		0.63450	0.63502	0.63086		0.64053	0.00048
0.64037	0.00046		0.64074	0.00063		0.64048	0.00044	40882
563	5183		0.64643	0.64796	0.63546		0.64054	0.00048
0.64039	0.00046		0.64073	0.00063		0.64049	0.00044	40952
564	5089		0.64468	0.65068	0.66288		0.64055	0.00048
0.64041	0.00046		0.64077	0.00063		0.64051	0.00044	40930
565	4937		0.64460	0.64442	0.65607		0.64056	0.00048
0.64041	0.00046		0.64080	0.00063		0.64052	0.00044	40980
566	4940		0.65221	0.64929	0.64627		0.64058	0.00048
0.64043	0.00046		0.64081	0.00063		0.64054	0.00044	41005
567	5094		0.63012	0.63049	0.64865		0.64056	0.00048
0.64041	0.00046		0.64082	0.00063		0.64053	0.00044	41047
568	4840		0.63960	0.63617	0.63783		0.64056	0.00047
0.64040	0.00046		0.64082	0.00062		0.64052	0.00044	41119
569	5052		0.63157	0.62993	0.64042		0.64054	0.00047
0.64038	0.00046		0.64082	0.00062		0.64051	0.00043	41140
570	4929		0.63747	0.64394	0.63897		0.64054	0.00047
0.64039	0.00046		0.64081	0.00062		0.64051	0.00043	41228

571	5040		0.64248	0.65000	0.63401		0.64054	0.00047
0.64041	0.00046		0.64080	0.00062		0.64052	0.00043	41303
572	5048		0.64812	0.64657	0.64496		0.64055	0.00047
0.64042	0.00046		0.64081	0.00062		0.64053	0.00043	41359
573	5049		0.65374	0.64265	0.64726		0.64058	0.00047
0.64043	0.00046		0.64082	0.00062		0.64054	0.00043	41415
574	5062		0.63667	0.64038	0.62195		0.64057	0.00047
0.64043	0.00046		0.64079	0.00062		0.64053	0.00043	41483
575	4862		0.63188	0.63469	0.64117		0.64056	0.00047
0.64041	0.00045		0.64079	0.00062		0.64052	0.00043	41545

576	4937		0.63081	0.63186	0.64733		0.64054	0.00047
0.64040	0.00045		0.64080	0.00062		0.64051	0.00043	41596
577	5015		0.64750	0.65263	0.64184		0.64055	0.00047
0.64042	0.00045		0.64080	0.00062		0.64053	0.00043	41622
578	5176		0.64688	0.64273	0.62516		0.64056	0.00047
0.64043	0.00045		0.64077	0.00062		0.64053	0.00043	41704
579	5016		0.63830	0.63794	0.65792		0.64056	0.00047
0.64042	0.00045		0.64080	0.00061		0.64053	0.00043	41778
580	4927		0.65467	0.64840	0.65470		0.64059	0.00047
0.64044	0.00045		0.64083	0.00061		0.64055	0.00043	41774

581	5104		0.63770	0.64106	0.62234		0.64058	0.00047
0.64044	0.00045		0.64080	0.00061		0.64054	0.00043	41844
582	4880		0.63915	0.63185	0.62958		0.64058	0.00047
0.64042	0.00045		0.64077	0.00061		0.64053	0.00043	41870
583	5058		0.63261	0.64919	0.63175		0.64056	0.00046
0.64044	0.00045		0.64076	0.00061		0.64053	0.00043	41962
584	4968		0.62311	0.63085	0.61929		0.64053	0.00047
0.64042	0.00045		0.64072	0.00061		0.64050	0.00043	41891
585	4898		0.63301	0.63803	0.62230		0.64052	0.00046
0.64042	0.00045		0.64068	0.00061		0.64049	0.00042	41937
586	5100		0.62339	0.62383	0.64137		0.64048	0.00046
0.64038	0.00045		0.64068	0.00061		0.64047	0.00042	41869
587	4905		0.65960	0.64827	0.66735		0.64052	0.00047
0.64040	0.00045		0.64073	0.00061		0.64049	0.00042	41794
588	5287		0.63479	0.64783	0.64146		0.64051	0.00046
0.64041	0.00045		0.64074	0.00061		0.64050	0.00042	41868
589	4845		0.64956	0.62919	0.65783		0.64053	0.00046
0.64039	0.00045		0.64077	0.00061		0.64049	0.00042	41934
590	5126		0.65208	0.65215	0.64147		0.64055	0.00046
0.64041	0.00045		0.64077	0.00061		0.64051	0.00042	41949

591	4982		0.62842	0.63525	0.62828		0.64052	0.00046
0.64040	0.00045		0.64075	0.00061		0.64050	0.00042	41979
592	4852		0.64400	0.63128	0.65470		0.64053	0.00046
0.64039	0.00045		0.64077	0.00061		0.64049	0.00042	42047
593	5128		0.64663	0.64822	0.63539		0.64054	0.00046
0.64040	0.00044		0.64076	0.00061		0.64050	0.00042	42114
594	5084		0.64610	0.64270	0.63167		0.64055	0.00046
0.64041	0.00044		0.64074	0.00061		0.64050	0.00042	42195
595	4970		0.62944	0.63467	0.61923		0.64053	0.00046
0.64040	0.00044		0.64070	0.00061		0.64048	0.00042	42194
596	4905		0.62843	0.63434	0.62595		0.64051	0.00046
0.64038	0.00044		0.64068	0.00061		0.64047	0.00042	42211
597	5021		0.63388	0.63628	0.62702		0.64050	0.00046
0.64038	0.00044		0.64065	0.00061		0.64046	0.00042	42255
598	5013		0.62906	0.63162	0.63119		0.64048	0.00046
0.64036	0.00044		0.64064	0.00060		0.64044	0.00042	42259
599	4923		0.63104	0.63417	0.63249		0.64046	0.00046
0.64035	0.00044		0.64062	0.00060		0.64043	0.00042	42288
600	4996		0.63638	0.63159	0.63041		0.64045	0.00046
0.64033	0.00044		0.64060	0.00060		0.64041	0.00042	42299

601 5034 | 0.64026 0.63874 0.64324 | 0.64045 0.00046
0.64033 0.00044 0.64061 0.00060 | 0.64041 0.00042 42370
602 5037 | 0.62953 0.62601 0.62173 | 0.64043 0.00046
0.64031 0.00044 0.64057 0.00060 | 0.64038 0.00042 42262
603 4930 | 0.62982 0.63671 0.61747 | 0.64041 0.00046
0.64030 0.00044 0.64053 0.00060 | 0.64037 0.00042 42278
604 5024 | 0.63846 0.64651 0.63894 | 0.64041 0.00046
0.64031 0.00044 0.64053 0.00060 | 0.64037 0.00041 42348
605 5096 | 0.64260 0.64133 0.65669 | 0.64041 0.00045
0.64031 0.00044 0.64056 0.00060 | 0.64038 0.00041 42403
606 5000 | 0.64818 0.64752 0.63817 | 0.64043 0.00045
0.64032 0.00044 0.64055 0.00060 | 0.64039 0.00041 42461
607 5007 | 0.64741 0.64296 0.66428 | 0.64044 0.00045
0.64033 0.00044 0.64060 0.00060 | 0.64040 0.00041 42488
608 5006 | 0.65827 0.64528 0.63490 | 0.64047 0.00045
0.64034 0.00043 0.64059 0.00060 | 0.64041 0.00041 42542
609 5040 | 0.63026 0.64064 0.62570 | 0.64045 0.00045
0.64034 0.00043 0.64056 0.00060 | 0.64040 0.00041 42602
610 4793 | 0.61807 0.62564 0.60121 | 0.64041 0.00045
0.64031 0.00043 0.64049 0.00060 | 0.64036 0.00041 42322

611 4945 | 0.62316 0.62039 0.62198 | 0.64038 0.00045
0.64028 0.00043 0.64046 0.00060 | 0.64033 0.00041 42099
612 5033 | 0.64707 0.64666 0.62059 | 0.64039 0.00045
0.64029 0.00043 0.64042 0.00060 | 0.64033 0.00041 42177
613 5215 | 0.63114 0.63272 0.63150 | 0.64038 0.00045
0.64027 0.00043 0.64040 0.00060 | 0.64032 0.00041 42197
614 4904 | 0.62392 0.62523 0.60663 | 0.64035 0.00045
0.64025 0.00043 0.64034 0.00060 | 0.64028 0.00041 41984
615 4956 | 0.63990 0.64029 0.65077 | 0.64035 0.00045
0.64025 0.00043 0.64036 0.00060 | 0.64029 0.00041 42059
616 5142 | 0.63586 0.63810 0.63222 | 0.64034 0.00045
0.64024 0.00043 0.64035 0.00060 | 0.64028 0.00041 42124
617 4975 | 0.63979 0.63199 0.64807 | 0.64034 0.00045
0.64023 0.00043 0.64036 0.00060 | 0.64027 0.00041 42185
618 5000 | 0.62956 0.63588 0.63379 | 0.64032 0.00045
0.64022 0.00043 0.64035 0.00060 | 0.64026 0.00041 42237
619 4918 | 0.63678 0.62479 0.63984 | 0.64031 0.00045
0.64020 0.00043 0.64035 0.00060 | 0.64025 0.00041 42219
620 5071 | 0.64487 0.64063 0.65427 | 0.64032 0.00045
0.64020 0.00043 0.64037 0.00060 | 0.64025 0.00041 42284

621 5047 | 0.64421 0.63912 0.65813 | 0.64033 0.00045
0.64019 0.00043 0.64040 0.00060 | 0.64026 0.00041 42348
622 4957 | 0.64196 0.62900 0.65593 | 0.64033 0.00045
0.64017 0.00043 0.64043 0.00060 | 0.64025 0.00041 42405
623 4956 | 0.63763 0.63819 0.62732 | 0.64033 0.00045
0.64017 0.00043 0.64041 0.00060 | 0.64025 0.00041 42468
624 4929 | 0.65812 0.64451 0.63445 | 0.64036 0.00045
0.64018 0.00043 0.64040 0.00059 | 0.64025 0.00041 42525

625	5130		0.62743	0.63177	0.62837		0.64034	0.00045
0.64016	0.00043		0.64038	0.00059		0.64023	0.00041	42523
626	4760		0.62899	0.62781	0.64977		0.64032	0.00045
0.64014	0.00043		0.64039	0.00059		0.64022	0.00041	42549
627	5009		0.65249	0.65045	0.61883		0.64034	0.00045
0.64016	0.00043		0.64036	0.00059		0.64023	0.00041	42615
628	5186		0.61482	0.62226	0.60898		0.64029	0.00045
0.64013	0.00043		0.64030	0.00060		0.64019	0.00041	42314
629	4717		0.62883	0.62566	0.62342		0.64027	0.00045
0.64010	0.00043		0.64027	0.00059		0.64016	0.00041	42222
630	5129		0.63176	0.63274	0.62105		0.64026	0.00045
0.64009	0.00043		0.64024	0.00059		0.64015	0.00041	42216

631	5007		0.62700	0.62851	0.60695		0.64024	0.00045
0.64007	0.00043		0.64018	0.00060		0.64012	0.00041	42086
632	4928		0.65472	0.64155	0.65380		0.64026	0.00045
0.64007	0.00043		0.64021	0.00060		0.64013	0.00041	42129
633	5269		0.62903	0.63252	0.63651		0.64024	0.00045
0.64006	0.00043		0.64020	0.00059		0.64012	0.00041	42159
634	4849		0.64001	0.64228	0.62971		0.64024	0.00045
0.64007	0.00042		0.64018	0.00059		0.64012	0.00040	42237
635	5055		0.65409	0.64029	0.64492		0.64026	0.00045
0.64007	0.00042		0.64019	0.00059		0.64012	0.00040	42294
636	5088		0.62839	0.63882	0.62851		0.64024	0.00045
0.64006	0.00042		0.64017	0.00059		0.64011	0.00040	42356
637	4809		0.63904	0.64471	0.62506		0.64024	0.00044
0.64007	0.00042		0.64014	0.00059		0.64011	0.00040	42437
638	5113		0.62398	0.63516	0.63269		0.64021	0.00044
0.64006	0.00042		0.64013	0.00059		0.64010	0.00040	42474
639	4876		0.63279	0.63271	0.62456		0.64020	0.00044
0.64005	0.00042		0.64011	0.00059		0.64008	0.00040	42485
640	5091		0.63479	0.63259	0.62681		0.64019	0.00044
0.64004	0.00042		0.64008	0.00059		0.64007	0.00040	42500

641	5043		0.64717	0.65603	0.64168		0.64020	0.00044
0.64006	0.00042		0.64009	0.00059		0.64009	0.00040	42480
642	5097		0.64051	0.63532	0.66277		0.64020	0.00044
0.64006	0.00042		0.64012	0.00059		0.64009	0.00040	42552
643	4988		0.63363	0.62315	0.63553		0.64019	0.00044
0.64003	0.00042		0.64012	0.00059		0.64007	0.00040	42488
644	4890		0.62472	0.63475	0.62733		0.64017	0.00044
0.64002	0.00042		0.64009	0.00059		0.64006	0.00040	42515
645	4907		0.62647	0.63574	0.63312		0.64014	0.00044
0.64001	0.00042		0.64008	0.00059		0.64005	0.00040	42564
646	4997		0.63527	0.64098	0.64644		0.64014	0.00044
0.64001	0.00042		0.64009	0.00059		0.64005	0.00040	42641
647	5077		0.62981	0.62607	0.62533		0.64012	0.00044
0.63999	0.00042		0.64007	0.00059		0.64003	0.00040	42567
648	4905		0.62643	0.64284	0.60095		0.64010	0.00044
0.64000	0.00042		0.64000	0.00059		0.64001	0.00040	42597
649	4980		0.63063	0.63196	0.62877		0.64008	0.00044
0.63998	0.00042		0.63998	0.00059		0.64000	0.00040	42608

650	5035		0.66384	0.66098	0.65780		0.64012	0.00044
0.64002	0.00042		0.64001	0.00059		0.64003	0.00040	42365

651	5311		0.63970	0.63309	0.63274		0.64012	0.00044
0.64001	0.00042		0.64000	0.00059		0.64002	0.00040	42402
652	4840		0.64092	0.64010	0.64799		0.64012	0.00044
0.64001	0.00042		0.64002	0.00059		0.64002	0.00040	42476
653	5012		0.65219	0.65780	0.64499		0.64014	0.00044
0.64004	0.00042		0.64002	0.00058		0.64005	0.00040	42401
654	5060		0.64714	0.63781	0.64866		0.64015	0.00044
0.64003	0.00042		0.64004	0.00058		0.64005	0.00040	42469
655	4922		0.63870	0.63544	0.63716		0.64015	0.00044
0.64002	0.00042		0.64003	0.00058		0.64004	0.00040	42527
656	4950		0.63933	0.64340	0.65089		0.64015	0.00044
0.64003	0.00042		0.64005	0.00058		0.64005	0.00040	42592
657	4988		0.65739	0.65734	0.63272		0.64018	0.00044
0.64006	0.00042		0.64004	0.00058		0.64007	0.00040	42553
658	5165		0.63203	0.62695	0.64508		0.64016	0.00044
0.64004	0.00042		0.64005	0.00058		0.64006	0.00040	42561
659	4794		0.65192	0.65236	0.63743		0.64018	0.00044
0.64006	0.00042		0.64004	0.00058		0.64007	0.00039	42575
660	5141		0.63612	0.63762	0.63964		0.64018	0.00044
0.64005	0.00041		0.64004	0.00058		0.64007	0.00039	42641

661	4845		0.64240	0.65107	0.65905		0.64018	0.00043
0.64007	0.00041		0.64007	0.00058		0.64009	0.00039	42629
662	5106		0.64341	0.63243	0.63492		0.64018	0.00043
0.64006	0.00041		0.64007	0.00058		0.64008	0.00039	42669
663	4996		0.62574	0.63469	0.62765		0.64016	0.00043
0.64005	0.00041		0.64004	0.00058		0.64007	0.00039	42693
664	4872		0.63372	0.63879	0.62889		0.64015	0.00043
0.64005	0.00041		0.64003	0.00058		0.64006	0.00039	42754
665	5066		0.63170	0.64898	0.63823		0.64014	0.00043
0.64006	0.00041		0.64002	0.00058		0.64007	0.00039	42822
666	4972		0.64834	0.65304	0.63090		0.64015	0.00043
0.64008	0.00041		0.64001	0.00057		0.64008	0.00039	42851
667	5137		0.62267	0.62255	0.60904		0.64012	0.00043
0.64005	0.00041		0.63996	0.00058		0.64005	0.00039	42610
668	4798		0.64583	0.64222	0.64488		0.64013	0.00043
0.64006	0.00041		0.63997	0.00058		0.64005	0.00039	42676
669	5174		0.63661	0.64082	0.64413		0.64013	0.00043
0.64006	0.00041		0.63997	0.00057		0.64005	0.00039	42747
670	4943		0.65761	0.65266	0.64242		0.64015	0.00043
0.64008	0.00041		0.63998	0.00057		0.64007	0.00039	42726

671	5211		0.64654	0.64139	0.65871		0.64016	0.00043
0.64008	0.00041		0.64001	0.00057		0.64008	0.00039	42775
672	4937		0.64285	0.64994	0.64117		0.64017	0.00043
0.64010	0.00041		0.64001	0.00057		0.64009	0.00039	42817
673	4960		0.63294	0.64224	0.65534		0.64016	0.00043
0.64010	0.00041		0.64003	0.00057		0.64010	0.00039	42888

674	4958		0.63640	0.63005	0.65472		0.64015	0.00043
0.64008	0.00041		0.64006	0.00057		0.64009	0.00039	42944
675	5035		0.64263	0.64491	0.62853		0.64015	0.00043
0.64009	0.00041		0.64004	0.00057		0.64009	0.00039	43012
676	5106		0.61534	0.62510	0.60573		0.64012	0.00043
0.64007	0.00041		0.63998	0.00057		0.64006	0.00039	42772
677	4793		0.63354	0.63400	0.63598		0.64010	0.00043
0.64006	0.00041		0.63998	0.00057		0.64005	0.00039	42817
678	5186		0.64099	0.63907	0.65156		0.64011	0.00043
0.64006	0.00041		0.64000	0.00057		0.64005	0.00039	42884
679	5061		0.65241	0.64776	0.66102		0.64013	0.00043
0.64007	0.00041		0.64003	0.00057		0.64007	0.00039	42870
680	5111		0.65481	0.65372	0.64877		0.64015	0.00043
0.64009	0.00041		0.64004	0.00057		0.64009	0.00039	42826

681	5056		0.63820	0.63676	0.62380		0.64015	0.00043
0.64009	0.00041		0.64002	0.00057		0.64008	0.00039	42868
682	4867		0.64766	0.65227	0.64285		0.64016	0.00043
0.64011	0.00041		0.64002	0.00057		0.64010	0.00039	42879
683	5083		0.64819	0.65696	0.62063		0.64017	0.00043
0.64013	0.00041		0.63999	0.00057		0.64011	0.00039	42899
684	5064		0.64214	0.63662	0.65781		0.64017	0.00043
0.64013	0.00041		0.64002	0.00057		0.64011	0.00039	42968
685	4922		0.63373	0.63325	0.62491		0.64016	0.00043
0.64012	0.00040		0.64000	0.00057		0.64010	0.00039	42983
686	4894		0.64148	0.63833	0.62970		0.64017	0.00042
0.64011	0.00040		0.63998	0.00057		0.64009	0.00038	43044
687	5074		0.63336	0.62305	0.63570		0.64015	0.00042
0.64009	0.00040		0.63997	0.00057		0.64007	0.00038	42985
688	4975		0.63576	0.63273	0.63268		0.64015	0.00042
0.64007	0.00040		0.63996	0.00057		0.64006	0.00038	43015
689	4980		0.65555	0.64867	0.64804		0.64017	0.00042
0.64009	0.00040		0.63997	0.00057		0.64008	0.00038	43020
690	5110		0.63942	0.64251	0.62538		0.64017	0.00042
0.64009	0.00040		0.63995	0.00057		0.64008	0.00038	43085

691	4848		0.64188	0.64504	0.63192		0.64017	0.00042
0.64010	0.00040		0.63994	0.00056		0.64008	0.00038	43153
692	4960		0.63099	0.64651	0.64258		0.64016	0.00042
0.64011	0.00040		0.63994	0.00056		0.64008	0.00038	43223
693	4900		0.65234	0.66021	0.65417		0.64018	0.00042
0.64014	0.00040		0.63997	0.00056		0.64011	0.00038	43079
694	5194		0.63640	0.63186	0.65257		0.64017	0.00042
0.64013	0.00040		0.63998	0.00056		0.64011	0.00038	43139
695	4900		0.65676	0.66442	0.63951		0.64020	0.00042
0.64017	0.00040		0.63998	0.00056		0.64013	0.00038	42983
696	5169		0.65373	0.65186	0.66204		0.64022	0.00042
0.64018	0.00040		0.64002	0.00056		0.64016	0.00038	42916
697	4972		0.65067	0.63905	0.64307		0.64024	0.00042
0.64018	0.00040		0.64002	0.00056		0.64016	0.00038	42980
698	4992		0.63155	0.62926	0.63175		0.64022	0.00042
0.64016	0.00040		0.64001	0.00056		0.64014	0.00038	42974

699	4840		0.63644	0.64135	0.62684		0.64022	0.00042
0.64017	0.00040		0.63999	0.00056		0.64014	0.00038	43037
700	5009		0.61526	0.61855	0.64878		0.64018	0.00042
0.64013	0.00040		0.64000	0.00056		0.64011	0.00038	42923

701	4837		0.62664	0.62966	0.63201		0.64016	0.00042
0.64012	0.00040		0.63999	0.00056		0.64010	0.00038	42913
702	5119		0.65613	0.66341	0.65742		0.64018	0.00042
0.64015	0.00040		0.64002	0.00056		0.64013	0.00038	42685
703	5233		0.65333	0.64975	0.67238		0.64020	0.00042
0.64017	0.00040		0.64007	0.00056		0.64015	0.00038	42606
704	5000		0.65317	0.65456	0.65439		0.64022	0.00042
0.64019	0.00040		0.64009	0.00056		0.64017	0.00038	42544
705	4960		0.64952	0.64703	0.64306		0.64024	0.00042
0.64020	0.00040		0.64009	0.00056		0.64018	0.00038	42584
706	4969		0.61941	0.62863	0.63679		0.64020	0.00042
0.64018	0.00040		0.64009	0.00056		0.64017	0.00038	42562
707	4729		0.63229	0.63767	0.65437		0.64019	0.00042
0.64018	0.00040		0.64011	0.00056		0.64017	0.00038	42634
708	5158		0.64530	0.64288	0.61981		0.64020	0.00042
0.64018	0.00040		0.64008	0.00056		0.64016	0.00038	42695
709	5147		0.63349	0.63442	0.63651		0.64019	0.00042
0.64017	0.00040		0.64007	0.00056		0.64016	0.00038	42738
710	4919		0.61950	0.61586	0.62913		0.64016	0.00042
0.64014	0.00040		0.64006	0.00056		0.64012	0.00038	42498

711	4887		0.65075	0.65159	0.66339		0.64017	0.00042
0.64015	0.00040		0.64009	0.00056		0.64015	0.00038	42444
712	5237		0.63958	0.63836	0.63067		0.64017	0.00042
0.64015	0.00040		0.64008	0.00056		0.64014	0.00038	42500
713	4933		0.64340	0.64767	0.66690		0.64018	0.00042
0.64016	0.00040		0.64012	0.00056		0.64016	0.00038	42494
714	5005		0.62029	0.62260	0.63761		0.64015	0.00042
0.64014	0.00040		0.64012	0.00055		0.64013	0.00038	42406
715	4825		0.64908	0.64672	0.64540		0.64016	0.00042
0.64015	0.00040		0.64012	0.00055		0.64014	0.00038	42446
716	5243		0.63096	0.63712	0.64210		0.64015	0.00042
0.64014	0.00040		0.64013	0.00055		0.64014	0.00038	42502
717	4854		0.63542	0.63639	0.62340		0.64014	0.00042
0.64014	0.00040		0.64010	0.00055		0.64013	0.00038	42537
718	5072		0.65811	0.66424	0.65332		0.64017	0.00042
0.64017	0.00040		0.64012	0.00055		0.64016	0.00038	42319
719	5152		0.61699	0.63261	0.62416		0.64013	0.00042
0.64016	0.00040		0.64010	0.00055		0.64014	0.00038	42285
720	4671		0.63903	0.64614	0.66003		0.64013	0.00042
0.64017	0.00040		0.64013	0.00055		0.64016	0.00038	42317

721	5137		0.64608	0.64487	0.65322		0.64014	0.00042
0.64018	0.00040		0.64015	0.00055		0.64016	0.00038	42353
722	5103		0.63516	0.63736	0.62813		0.64013	0.00042
0.64017	0.00040		0.64013	0.00055		0.64016	0.00038	42398

723	4888		0.64352	0.64221	0.63591		0.64014	0.00042
0.64018	0.00040		0.64012	0.00055		0.64016	0.00038	42465
724	5035		0.64491	0.64216	0.64944		0.64014	0.00042
0.64018	0.00040		0.64014	0.00055		0.64016	0.00038	42520
725	4994		0.63547	0.63589	0.64457		0.64014	0.00041
0.64017	0.00040		0.64014	0.00055		0.64016	0.00038	42579
726	4958		0.64595	0.64537	0.65498		0.64015	0.00041
0.64018	0.00040		0.64016	0.00055		0.64017	0.00038	42611
727	5110		0.63692	0.64290	0.63878		0.64014	0.00041
0.64018	0.00039		0.64016	0.00055		0.64017	0.00037	42674
728	4862		0.62167	0.63005	0.62100		0.64011	0.00041
0.64017	0.00039		0.64013	0.00055		0.64015	0.00037	42616
729	4880		0.64053	0.64534	0.64062		0.64011	0.00041
0.64018	0.00039		0.64014	0.00055		0.64016	0.00037	42673
730	5082		0.63979	0.63852	0.62888		0.64011	0.00041
0.64017	0.00039		0.64012	0.00055		0.64015	0.00037	42728

731	4983		0.62294	0.62543	0.60664		0.64009	0.00041
0.64015	0.00039		0.64007	0.00055		0.64013	0.00037	42550
732	4856		0.63009	0.62759	0.63529		0.64007	0.00041
0.64013	0.00039		0.64006	0.00055		0.64011	0.00037	42538
733	5075		0.63290	0.63852	0.63364		0.64006	0.00041
0.64013	0.00039		0.64005	0.00055		0.64011	0.00037	42592
734	5069		0.62909	0.63506	0.63415		0.64005	0.00041
0.64012	0.00039		0.64004	0.00055		0.64010	0.00037	42627
735	4992		0.62820	0.63564	0.64409		0.64003	0.00041
0.64012	0.00039		0.64005	0.00054		0.64009	0.00037	42676
736	5002		0.64937	0.64977	0.63472		0.64004	0.00041
0.64013	0.00039		0.64004	0.00054		0.64010	0.00037	42714
737	5123		0.64208	0.64464	0.63323		0.64005	0.00041
0.64014	0.00039		0.64003	0.00054		0.64010	0.00037	42774
738	4971		0.63117	0.64034	0.61737		0.64003	0.00041
0.64014	0.00039		0.64000	0.00054		0.64009	0.00037	42811
739	4934		0.63263	0.64090	0.64660		0.64002	0.00041
0.64014	0.00039		0.64001	0.00054		0.64010	0.00037	42873
740	4999		0.63609	0.63785	0.63599		0.64002	0.00041
0.64014	0.00039		0.64000	0.00054		0.64009	0.00037	42929

741	5031		0.62191	0.62924	0.62250		0.63999	0.00041
0.64012	0.00039		0.63998	0.00054		0.64007	0.00037	42867
742	4877		0.65668	0.64333	0.66543		0.64002	0.00041
0.64013	0.00039		0.64001	0.00054		0.64009	0.00037	42881
743	5271		0.63732	0.64889	0.65704		0.64001	0.00041
0.64014	0.00039		0.64004	0.00054		0.64010	0.00037	42891
744	4866		0.61634	0.62167	0.63747		0.63998	0.00041
0.64011	0.00039		0.64004	0.00054		0.64008	0.00037	42779
745	4809		0.63471	0.63101	0.64621		0.63997	0.00041
0.64010	0.00039		0.64004	0.00054		0.64007	0.00037	42824
746	5137		0.62775	0.62221	0.64551		0.63995	0.00041
0.64007	0.00039		0.64005	0.00054		0.64005	0.00037	42783
747	4979		0.63683	0.63435	0.60372		0.63995	0.00041
0.64006	0.00039		0.64000	0.00054		0.64003	0.00037	42757

748	5045		0.64591	0.64646	0.64051		0.63996	0.00041
0.64007	0.00039		0.64000	0.00054		0.64004	0.00037	42804
749	5084		0.66208	0.65641	0.65499		0.63999	0.00041
0.64010	0.00039		0.64002	0.00054		0.64007	0.00037	42691
750	5089		0.65245	0.66429	0.63585		0.64001	0.00041
0.64013	0.00039		0.64002	0.00054		0.64009	0.00037	42578

751	4927		0.64639	0.64005	0.64775		0.64002	0.00041
0.64013	0.00039		0.64003	0.00054		0.64009	0.00037	42640
752	4952		0.63226	0.64074	0.64139		0.64000	0.00041
0.64013	0.00039		0.64003	0.00054		0.64009	0.00037	42699
753	4888		0.64183	0.65255	0.60688		0.64001	0.00041
0.64015	0.00039		0.63998	0.00054		0.64009	0.00037	42758
754	5019		0.65908	0.65553	0.65810		0.64003	0.00041
0.64017	0.00039		0.64001	0.00054		0.64012	0.00037	42655
755	5121		0.64604	0.64558	0.64661		0.64004	0.00041
0.64018	0.00039		0.64002	0.00054		0.64013	0.00037	42698
756	4892		0.65197	0.65021	0.65148		0.64006	0.00041
0.64019	0.00039		0.64003	0.00054		0.64014	0.00037	42695
757	5019		0.62574	0.63427	0.64820		0.64004	0.00041
0.64019	0.00039		0.64005	0.00054		0.64014	0.00037	42740
758	4804		0.62947	0.63171	0.62580		0.64002	0.00041
0.64017	0.00039		0.64003	0.00054		0.64012	0.00037	42735
759	5042		0.63696	0.63974	0.64988		0.64002	0.00041
0.64017	0.00039		0.64004	0.00054		0.64012	0.00037	42792
760	5085		0.65005	0.65250	0.64476		0.64003	0.00041
0.64019	0.00039		0.64005	0.00054		0.64014	0.00037	42786

761	5160		0.61911	0.62254	0.62111		0.64000	0.00041
0.64017	0.00039		0.64002	0.00054		0.64011	0.00037	42625
762	4792		0.61840	0.61426	0.61716		0.63997	0.00041
0.64013	0.00039		0.63999	0.00054		0.64008	0.00037	42301
763	5011		0.63233	0.62627	0.64501		0.63996	0.00041
0.64011	0.00039		0.63999	0.00054		0.64006	0.00037	42311
764	5138		0.63966	0.64471	0.64870		0.63996	0.00041
0.64012	0.00039		0.64001	0.00053		0.64007	0.00037	42357
765	5062		0.63761	0.64393	0.63433		0.63996	0.00040
0.64012	0.00039		0.64000	0.00053		0.64007	0.00037	42414
766	4936		0.63646	0.63315	0.64240		0.63995	0.00040
0.64011	0.00039		0.64000	0.00053		0.64007	0.00037	42464
767	5021		0.64374	0.64627	0.63429		0.63996	0.00040
0.64012	0.00038		0.63999	0.00053		0.64007	0.00036	42519
768	5068		0.63712	0.63113	0.63245		0.63996	0.00040
0.64011	0.00038		0.63998	0.00053		0.64006	0.00036	42542
769	4911		0.64471	0.64759	0.63926		0.63996	0.00040
0.64012	0.00038		0.63998	0.00053		0.64007	0.00036	42587
770	5032		0.62445	0.63191	0.64144		0.63994	0.00040
0.64011	0.00038		0.63998	0.00053		0.64006	0.00036	42607

771	4834		0.63164	0.64528	0.62804		0.63993	0.00040
0.64011	0.00038		0.63997	0.00053		0.64006	0.00036	42662

772	5038		0.62509	0.62029	0.63987		0.63991	0.00040
0.64009	0.00038		0.63997	0.00053		0.64003	0.00036	42580
773	4938		0.62808	0.63311	0.64589		0.63989	0.00040
0.64008	0.00038		0.63998	0.00053		0.64003	0.00036	42618
774	5070		0.63342	0.62961	0.63057		0.63988	0.00040
0.64006	0.00038		0.63996	0.00053		0.64001	0.00036	42620
775	5017		0.64433	0.62554	0.64879		0.63989	0.00040
0.64004	0.00038		0.63997	0.00053		0.64000	0.00036	42660
776	5109		0.64554	0.64973	0.63990		0.63990	0.00040
0.64006	0.00038		0.63997	0.00053		0.64001	0.00036	42689
777	5016		0.64496	0.64698	0.64050		0.63990	0.00040
0.64007	0.00038		0.63998	0.00053		0.64002	0.00036	42733
778	5005		0.64495	0.64519	0.65493		0.63991	0.00040
0.64007	0.00038		0.64000	0.00053		0.64003	0.00036	42763
779	5031		0.63865	0.63676	0.63509		0.63991	0.00040
0.64007	0.00038		0.63999	0.00053		0.64003	0.00036	42816
780	4926		0.63818	0.64161	0.63433		0.63991	0.00040
0.64007	0.00038		0.63998	0.00052		0.64003	0.00036	42875

781	4978		0.64424	0.63621	0.65360		0.63991	0.00040
0.64006	0.00038		0.64000	0.00052		0.64003	0.00036	42938
782	5019		0.63375	0.63725	0.62794		0.63991	0.00040
0.64006	0.00038		0.63998	0.00052		0.64002	0.00036	42978
783	4934		0.63709	0.62909	0.64286		0.63990	0.00040
0.64005	0.00038		0.63999	0.00052		0.64001	0.00036	43012
784	5027		0.66100	0.66898	0.66274		0.63993	0.00040
0.64009	0.00038		0.64002	0.00052		0.64005	0.00036	42647
785	5185		0.64445	0.63430	0.64840		0.63994	0.00040
0.64008	0.00038		0.64003	0.00052		0.64004	0.00036	42708
786	4834		0.62632	0.62453	0.65419		0.63992	0.00040
0.64006	0.00038		0.64005	0.00052		0.64003	0.00036	42716
787	4874		0.62950	0.63055	0.64569		0.63990	0.00040
0.64004	0.00038		0.64006	0.00052		0.64002	0.00036	42749
788	5003		0.63133	0.64176	0.60851		0.63989	0.00040
0.64005	0.00038		0.64001	0.00052		0.64001	0.00036	42773
789	5008		0.64793	0.65198	0.63934		0.63990	0.00040
0.64006	0.00038		0.64001	0.00052		0.64003	0.00036	42790
790	5134		0.63090	0.63405	0.63831		0.63989	0.00040
0.64005	0.00038		0.64001	0.00052		0.64002	0.00036	42825

791	4857		0.63830	0.63758	0.65879		0.63989	0.00040
0.64005	0.00038		0.64004	0.00052		0.64002	0.00036	42883
792	5109		0.63164	0.64929	0.63552		0.63988	0.00039
0.64006	0.00038		0.64003	0.00052		0.64003	0.00036	42926
793	4875		0.62937	0.63337	0.65526		0.63986	0.00039
0.64005	0.00038		0.64005	0.00052		0.64002	0.00036	42977
794	4937		0.63582	0.63231	0.64867		0.63986	0.00039
0.64004	0.00038		0.64006	0.00052		0.64002	0.00036	43029
795	5033		0.65369	0.65558	0.63130		0.63988	0.00039
0.64006	0.00038		0.64005	0.00052		0.64003	0.00036	43032
796	5155		0.63820	0.63687	0.62492		0.63987	0.00039
0.64006	0.00038		0.64003	0.00052		0.64002	0.00036	43072

797	4914		0.64270	0.64828	0.66001		0.63988	0.00039
0.64007	0.00038		0.64006	0.00052		0.64004	0.00036	43070
798	5054		0.65216	0.65145	0.65183		0.63989	0.00039
0.64009	0.00038		0.64007	0.00052		0.64005	0.00036	43051
799	5064		0.63143	0.63432	0.64638		0.63988	0.00039
0.64008	0.00038		0.64008	0.00052		0.64005	0.00035	43096
800	4861		0.63981	0.63713	0.63699		0.63988	0.00039
0.64007	0.00038		0.64008	0.00052		0.64004	0.00035	43154

801	5060		0.64078	0.63126	0.65754		0.63988	0.00039
0.64006	0.00038		0.64010	0.00052		0.64004	0.00035	43213
802	5009		0.63035	0.63051	0.63090		0.63987	0.00039
0.64005	0.00038		0.64009	0.00052		0.64003	0.00035	43214
803	4911		0.63038	0.62897	0.60872		0.63986	0.00039
0.64004	0.00038		0.64005	0.00052		0.64001	0.00035	43132
804	5003		0.65107	0.64942	0.63765		0.63987	0.00039
0.64005	0.00037		0.64004	0.00052		0.64002	0.00035	43165
805	5131		0.64337	0.64394	0.63822		0.63988	0.00039
0.64005	0.00037		0.64004	0.00052		0.64002	0.00035	43221
806	4926		0.61859	0.61875	0.61676		0.63985	0.00039
0.64002	0.00037		0.64001	0.00052		0.63999	0.00035	42986
807	4770		0.64715	0.64417	0.62546		0.63986	0.00039
0.64003	0.00037		0.63999	0.00052		0.63999	0.00035	43053
808	5200		0.66507	0.66593	0.65204		0.63989	0.00039
0.64006	0.00038		0.64001	0.00052		0.64002	0.00035	42804
809	5137		0.62567	0.63740	0.61323		0.63987	0.00039
0.64006	0.00037		0.63997	0.00052		0.64001	0.00035	42794
810	4732		0.64982	0.66023	0.66512		0.63989	0.00039
0.64009	0.00038		0.64000	0.00052		0.64004	0.00035	42628

811	5191		0.64344	0.63881	0.62928		0.63989	0.00039
0.64009	0.00037		0.63999	0.00052		0.64003	0.00035	42684
812	4954		0.64282	0.64842	0.64918		0.63990	0.00039
0.64010	0.00037		0.64000	0.00052		0.64004	0.00035	42707
813	5021		0.63045	0.63173	0.62422		0.63988	0.00039
0.64009	0.00037		0.63998	0.00052		0.64003	0.00035	42698
814	4890		0.62920	0.62578	0.63020		0.63987	0.00039
0.64007	0.00037		0.63997	0.00051		0.64001	0.00035	42659
815	4970		0.64148	0.64594	0.63779		0.63987	0.00039
0.64007	0.00037		0.63997	0.00051		0.64002	0.00035	42707
816	5114		0.65093	0.65026	0.66404		0.63989	0.00039
0.64009	0.00037		0.64000	0.00051		0.64003	0.00035	42660
817	5084		0.63032	0.62455	0.62478		0.63987	0.00039
0.64007	0.00037		0.63998	0.00051		0.64001	0.00035	42592
818	4810		0.64315	0.63881	0.63341		0.63988	0.00039
0.64007	0.00037		0.63997	0.00051		0.64001	0.00035	42649
819	5123		0.64450	0.64056	0.65097		0.63988	0.00039
0.64007	0.00037		0.63998	0.00051		0.64002	0.00035	42701
820	4987		0.64733	0.65240	0.64933		0.63989	0.00039
0.64008	0.00037		0.64000	0.00051		0.64003	0.00035	42690

821	4988		0.62192	0.62718	0.62677		0.63987	0.00039
0.64007	0.00037		0.63998	0.00051		0.64001	0.00035	42626
822	4839		0.65170	0.64759	0.65923		0.63989	0.00039
0.64008	0.00037		0.64000	0.00051		0.64003	0.00035	42622
823	5270		0.63122	0.63653	0.64202		0.63987	0.00039
0.64007	0.00037		0.64001	0.00051		0.64002	0.00035	42665
824	4862		0.64344	0.64471	0.63793		0.63988	0.00039
0.64008	0.00037		0.64000	0.00051		0.64003	0.00035	42718
825	5102		0.63405	0.63821	0.64570		0.63987	0.00039
0.64007	0.00037		0.64001	0.00051		0.64002	0.00035	42770
826	4884		0.64578	0.64958	0.65150		0.63988	0.00038
0.64009	0.00037		0.64003	0.00051		0.64004	0.00035	42776
827	5133		0.64978	0.65141	0.67059		0.63989	0.00038
0.64010	0.00037		0.64006	0.00051		0.64006	0.00035	42700
828	5052		0.63629	0.62841	0.63567		0.63989	0.00038
0.64009	0.00037		0.64006	0.00051		0.64004	0.00035	42714
829	4906		0.65845	0.66051	0.64898		0.63991	0.00038
0.64011	0.00037		0.64007	0.00051		0.64007	0.00035	42597
830	5195		0.63365	0.62274	0.63837		0.63990	0.00038
0.64009	0.00037		0.64007	0.00051		0.64005	0.00035	42570

831	4776		0.62094	0.62359	0.63600		0.63988	0.00038
0.64007	0.00037		0.64006	0.00051		0.64003	0.00035	42502
832	4949		0.65017	0.65177	0.64232		0.63989	0.00038
0.64008	0.00037		0.64007	0.00051		0.64004	0.00035	42511
833	5228		0.64268	0.64887	0.64487		0.63990	0.00038
0.64010	0.00037		0.64007	0.00051		0.64005	0.00035	42537
834	4937		0.65538	0.64500	0.66053		0.63992	0.00038
0.64010	0.00037		0.64010	0.00051		0.64007	0.00035	42540
835	5151		0.63497	0.63421	0.63981		0.63991	0.00038
0.64009	0.00037		0.64010	0.00051		0.64006	0.00035	42581
836	4889		0.63162	0.63870	0.64557		0.63990	0.00038
0.64009	0.00037		0.64010	0.00051		0.64006	0.00035	42629
837	5015		0.63615	0.64056	0.63133		0.63989	0.00038
0.64009	0.00037		0.64009	0.00050		0.64006	0.00035	42679
838	5061		0.64808	0.64971	0.66583		0.63990	0.00038
0.64011	0.00037		0.64013	0.00051		0.64007	0.00035	42642
839	5104		0.64619	0.64593	0.64714		0.63991	0.00038
0.64011	0.00037		0.64014	0.00050		0.64008	0.00035	42677
840	4962		0.64510	0.64555	0.65944		0.63992	0.00038
0.64012	0.00037		0.64016	0.00050		0.64009	0.00035	42693

841	5020		0.64352	0.64863	0.62361		0.63992	0.00038
0.64013	0.00037		0.64014	0.00050		0.64009	0.00035	42743
842	4948		0.64069	0.64385	0.63988		0.63992	0.00038
0.64014	0.00037		0.64014	0.00050		0.64010	0.00035	42794
843	4960		0.62938	0.63398	0.62215		0.63991	0.00038
0.64013	0.00037		0.64012	0.00050		0.64008	0.00035	42793
844	4926		0.64540	0.64671	0.63476		0.63992	0.00038
0.64014	0.00037		0.64011	0.00050		0.64009	0.00035	42842
845	5127		0.63612	0.63817	0.63957		0.63991	0.00038
0.64013	0.00037		0.64011	0.00050		0.64009	0.00035	42892

846	4972		0.64387	0.63400	0.66208		0.63992	0.00038
0.64013	0.00037		0.64014	0.00050		0.64009	0.00034	42949
847	5089		0.63839	0.62190	0.64437		0.63992	0.00038
0.64010	0.00037		0.64014	0.00050		0.64007	0.00034	42947
848	4943		0.64641	0.65129	0.65371		0.63992	0.00038
0.64012	0.00037		0.64016	0.00050		0.64009	0.00034	42936
849	5050		0.65466	0.65103	0.63436		0.63994	0.00038
0.64013	0.00037		0.64015	0.00050		0.64010	0.00034	42960
850	5085		0.64194	0.63946	0.63612		0.63995	0.00038
0.64013	0.00036		0.64015	0.00050		0.64010	0.00034	43014

851	4896		0.64541	0.64741	0.66462		0.63995	0.00038
0.64014	0.00036		0.64018	0.00050		0.64011	0.00034	43006
852	5055		0.62348	0.62298	0.63936		0.63993	0.00038
0.64012	0.00036		0.64018	0.00050		0.64009	0.00034	42948
853	4808		0.64712	0.64577	0.65484		0.63994	0.00038
0.64012	0.00036		0.64019	0.00050		0.64010	0.00034	42972
854	5156		0.64298	0.62743	0.64478		0.63994	0.00038
0.64011	0.00036		0.64020	0.00050		0.64010	0.00034	43012
855	4921		0.64905	0.65033	0.65581		0.63996	0.00038
0.64012	0.00036		0.64022	0.00050		0.64011	0.00034	42999
856	5064		0.62573	0.63132	0.59575		0.63994	0.00038
0.64011	0.00036		0.64016	0.00050		0.64009	0.00034	42882
857	4840		0.63388	0.63697	0.64090		0.63993	0.00038
0.64011	0.00036		0.64016	0.00050		0.64008	0.00034	42929
858	5076		0.62948	0.63100	0.62935		0.63992	0.00038
0.64010	0.00036		0.64015	0.00050		0.64007	0.00034	42927
859	4965		0.64289	0.63679	0.63445		0.63992	0.00037
0.64009	0.00036		0.64014	0.00050		0.64007	0.00034	42981
860	5142		0.63420	0.63514	0.63565		0.63991	0.00037
0.64008	0.00036		0.64014	0.00050		0.64006	0.00034	43018

861	4926		0.65266	0.65040	0.64756		0.63993	0.00037
0.64010	0.00036		0.64015	0.00050		0.64007	0.00034	43020
862	5184		0.64747	0.63987	0.65192		0.63994	0.00037
0.64010	0.00036		0.64016	0.00050		0.64008	0.00034	43069
863	4949		0.63740	0.63149	0.62129		0.63994	0.00037
0.64009	0.00036		0.64014	0.00050		0.64007	0.00034	43074
864	4944		0.64705	0.65546	0.64091		0.63994	0.00037
0.64011	0.00036		0.64014	0.00050		0.64008	0.00034	43065
865	5108		0.65078	0.64566	0.64850		0.63996	0.00037
0.64011	0.00036		0.64015	0.00050		0.64009	0.00034	43095
866	4996		0.62433	0.62408	0.63084		0.63994	0.00037
0.64009	0.00036		0.64014	0.00050		0.64007	0.00034	43024
867	4818		0.64398	0.63793	0.64224		0.63994	0.00037
0.64009	0.00036		0.64014	0.00050		0.64007	0.00034	43082
868	5168		0.62912	0.62935	0.61641		0.63993	0.00037
0.64008	0.00036		0.64011	0.00050		0.64005	0.00034	43031
869	4877		0.62418	0.62526	0.63929		0.63991	0.00037
0.64006	0.00036		0.64011	0.00050		0.64004	0.00034	42995
870	4926		0.63881	0.64117	0.61648		0.63991	0.00037
0.64006	0.00036		0.64008	0.00050		0.64003	0.00034	43038

871 5138 | 0.63213 0.63199 0.61170 | 0.63990 0.00037
0.64005 0.00036 0.64005 0.00050 | 0.64002 0.00034 43007
872 4975 | 0.62727 0.62628 0.64579 | 0.63988 0.00037
0.64003 0.00036 0.64006 0.00050 | 0.64001 0.00034 43005
873 4927 | 0.62345 0.62268 0.63599 | 0.63987 0.00037
0.64001 0.00036 0.64005 0.00050 | 0.63999 0.00034 42937
874 4974 | 0.64186 0.64741 0.62795 | 0.63987 0.00037
0.64002 0.00036 0.64004 0.00050 | 0.63999 0.00034 42988
875 5174 | 0.63549 0.63986 0.63434 | 0.63986 0.00037
0.64002 0.00036 0.64003 0.00049 | 0.63999 0.00034 43035
876 4957 | 0.65460 0.64290 0.65535 | 0.63988 0.00037
0.64002 0.00036 0.64005 0.00049 | 0.64000 0.00034 43063
877 5189 | 0.63750 0.64428 0.64930 | 0.63988 0.00037
0.64003 0.00036 0.64006 0.00049 | 0.64001 0.00034 43102
878 4846 | 0.63197 0.63373 0.62567 | 0.63987 0.00037
0.64002 0.00036 0.64004 0.00049 | 0.64000 0.00034 43115
879 4926 | 0.63985 0.64918 0.65551 | 0.63987 0.00037
0.64003 0.00036 0.64006 0.00049 | 0.64001 0.00034 43125
880 5106 | 0.62353 0.62513 0.66326 | 0.63985 0.00037
0.64002 0.00036 0.64009 0.00049 | 0.64000 0.00034 43137

881 4880 | 0.64602 0.63772 0.61684 | 0.63986 0.00037
0.64001 0.00036 0.64006 0.00049 | 0.63999 0.00034 43184
882 5185 | 0.66217 0.65937 0.66288 | 0.63988 0.00037
0.64004 0.00036 0.64009 0.00049 | 0.64002 0.00034 43008
883 5149 | 0.63542 0.64252 0.61327 | 0.63988 0.00037
0.64004 0.00036 0.64005 0.00049 | 0.64001 0.00034 43044
884 4811 | 0.63593 0.63920 0.62995 | 0.63987 0.00037
0.64004 0.00036 0.64004 0.00049 | 0.64001 0.00034 43090
885 5023 | 0.63724 0.63501 0.64278 | 0.63987 0.00037
0.64003 0.00036 0.64005 0.00049 | 0.64000 0.00034 43137
886 5030 | 0.63131 0.62297 0.62678 | 0.63986 0.00037
0.64001 0.00036 0.64003 0.00049 | 0.63998 0.00034 43072
887 4993 | 0.64997 0.65370 0.64054 | 0.63987 0.00037
0.64003 0.00036 0.64003 0.00049 | 0.64000 0.00034 43069
888 5168 | 0.63717 0.63443 0.63593 | 0.63987 0.00037
0.64002 0.00036 0.64003 0.00049 | 0.63999 0.00034 43108
889 4903 | 0.62017 0.62613 0.62062 | 0.63984 0.00037
0.64000 0.00036 0.64000 0.00049 | 0.63997 0.00034 43010
890 4836 | 0.63255 0.64166 0.62266 | 0.63984 0.00037
0.64001 0.00036 0.63998 0.00049 | 0.63997 0.00034 43051

891 5064 | 0.64186 0.63840 0.64004 | 0.63984 0.00037
0.64000 0.00035 0.63998 0.00049 | 0.63997 0.00033 43106
892 5058 | 0.64823 0.64240 0.62961 | 0.63985 0.00037
0.64001 0.00035 0.63997 0.00049 | 0.63997 0.00033 43162
893 5052 | 0.62941 0.63288 0.63135 | 0.63984 0.00037
0.64000 0.00035 0.63996 0.00049 | 0.63996 0.00033 43174
894 4835 | 0.63881 0.62740 0.64686 | 0.63983 0.00037
0.63998 0.00035 0.63997 0.00049 | 0.63995 0.00033 43207

895	5095		0.64426	0.64957	0.62891		0.63984	0.00037
0.64000	0.00035		0.63995	0.00049		0.63996	0.00033	43249
896	5046		0.63923	0.64342	0.61980		0.63984	0.00037
0.64000	0.00035		0.63993	0.00049		0.63995	0.00033	43298
897	4997		0.62304	0.62118	0.63281		0.63982	0.00037
0.63998	0.00035		0.63992	0.00049		0.63993	0.00033	43206
898	4865		0.62758	0.63241	0.63506		0.63980	0.00037
0.63997	0.00035		0.63992	0.00049		0.63992	0.00033	43219
899	4993		0.63613	0.64068	0.64935		0.63980	0.00036
0.63997	0.00035		0.63993	0.00049		0.63993	0.00033	43267
900	5052		0.63626	0.62689	0.64503		0.63980	0.00036
0.63995	0.00035		0.63993	0.00049		0.63992	0.00033	43291

901	4986		0.62852	0.62809	0.62777		0.63978	0.00036
0.63994	0.00035		0.63992	0.00049		0.63990	0.00033	43263
902	4960		0.63929	0.63492	0.64352		0.63978	0.00036
0.63993	0.00035		0.63992	0.00049		0.63990	0.00033	43312
903	5114		0.64523	0.64527	0.65039		0.63979	0.00036
0.63994	0.00035		0.63994	0.00049		0.63991	0.00033	43342
904	5046		0.65569	0.63927	0.66352		0.63981	0.00036
0.63994	0.00035		0.63996	0.00049		0.63992	0.00033	43370
905	5106		0.64949	0.64939	0.64112		0.63982	0.00036
0.63995	0.00035		0.63997	0.00049		0.63993	0.00033	43391
906	5018		0.64885	0.63675	0.64270		0.63983	0.00036
0.63995	0.00035		0.63997	0.00048		0.63993	0.00033	43448
907	5019		0.63891	0.63802	0.65331		0.63983	0.00036
0.63994	0.00035		0.63998	0.00048		0.63993	0.00033	43498
908	4926		0.64117	0.64225	0.64898		0.63983	0.00036
0.63995	0.00035		0.63999	0.00048		0.63993	0.00033	43544
909	5011		0.63709	0.63549	0.66349		0.63983	0.00036
0.63994	0.00035		0.64002	0.00048		0.63994	0.00033	43592
910	4960		0.64352	0.64118	0.65131		0.63983	0.00036
0.63994	0.00035		0.64003	0.00048		0.63994	0.00033	43638

911	5057		0.62514	0.62309	0.63218		0.63981	0.00036
0.63992	0.00035		0.64003	0.00048		0.63992	0.00033	43568
912	4817		0.62112	0.62550	0.64829		0.63979	0.00036
0.63991	0.00035		0.64004	0.00048		0.63991	0.00033	43552
913	5001		0.63422	0.62339	0.63131		0.63979	0.00036
0.63989	0.00035		0.64003	0.00048		0.63990	0.00033	43515
914	5105		0.63198	0.63370	0.63463		0.63978	0.00036
0.63988	0.00035		0.64002	0.00048		0.63989	0.00033	43542
915	4983		0.64674	0.63406	0.62648		0.63978	0.00036
0.63987	0.00035		0.64000	0.00048		0.63988	0.00033	43587
916	5192		0.63094	0.63306	0.63092		0.63977	0.00036
0.63987	0.00035		0.63999	0.00048		0.63987	0.00033	43603
917	4833		0.63987	0.64352	0.65803		0.63977	0.00036
0.63987	0.00035		0.64001	0.00048		0.63988	0.00033	43634
918	5068		0.63404	0.64194	0.63448		0.63977	0.00036
0.63987	0.00035		0.64001	0.00048		0.63988	0.00033	43683
919	4928		0.64814	0.65897	0.64135		0.63978	0.00036
0.63989	0.00035		0.64001	0.00048		0.63989	0.00033	43643

920 5107 | 0.63465 0.63272 0.63734 | 0.63977 0.00036
0.63989 0.00035 0.64001 0.00048 | 0.63989 0.00033 43672

921 4892 | 0.63659 0.63953 0.63160 | 0.63977 0.00036
0.63989 0.00035 0.64000 0.00048 | 0.63988 0.00033 43720
922 4987 | 0.63504 0.62924 0.65672 | 0.63976 0.00036
0.63987 0.00035 0.64002 0.00048 | 0.63988 0.00033 43761
923 4983 | 0.63955 0.63477 0.64772 | 0.63976 0.00036
0.63987 0.00035 0.64002 0.00048 | 0.63988 0.00033 43810
924 5072 | 0.62597 0.62866 0.63430 | 0.63975 0.00036
0.63986 0.00035 0.64002 0.00048 | 0.63987 0.00033 43794
925 4869 | 0.63677 0.64265 0.64238 | 0.63974 0.00036
0.63986 0.00035 0.64002 0.00048 | 0.63987 0.00033 43843
926 5112 | 0.64031 0.64400 0.62915 | 0.63974 0.00036
0.63986 0.00035 0.64001 0.00048 | 0.63987 0.00033 43894
927 5020 | 0.65137 0.64739 0.63802 | 0.63976 0.00036
0.63987 0.00035 0.64001 0.00048 | 0.63988 0.00032 43928
928 5092 | 0.64547 0.64414 0.63045 | 0.63976 0.00036
0.63988 0.00035 0.63999 0.00048 | 0.63988 0.00032 43980
929 4956 | 0.63784 0.62264 0.65316 | 0.63976 0.00036
0.63986 0.00035 0.64001 0.00048 | 0.63987 0.00032 43998
930 4917 | 0.65691 0.64738 0.65628 | 0.63978 0.00036
0.63987 0.00035 0.64003 0.00048 | 0.63988 0.00032 43984

931 5123 | 0.62679 0.62392 0.62521 | 0.63977 0.00036
0.63985 0.00035 0.64001 0.00048 | 0.63987 0.00032 43907
932 4779 | 0.65416 0.64721 0.64514 | 0.63978 0.00036
0.63986 0.00035 0.64002 0.00047 | 0.63987 0.00032 43927
933 5259 | 0.65379 0.65143 0.65754 | 0.63980 0.00036
0.63987 0.00035 0.64004 0.00047 | 0.63989 0.00032 43885
934 4985 | 0.63878 0.63208 0.64311 | 0.63980 0.00036
0.63986 0.00034 0.64004 0.00047 | 0.63989 0.00032 43926
935 4880 | 0.63616 0.63208 0.61257 | 0.63979 0.00035
0.63985 0.00034 0.64001 0.00047 | 0.63987 0.00032 43912
936 5007 | 0.64162 0.65105 0.63618 | 0.63979 0.00035
0.63986 0.00034 0.64000 0.00047 | 0.63988 0.00032 43944
937 5037 | 0.64955 0.64654 0.64791 | 0.63981 0.00035
0.63987 0.00034 0.64001 0.00047 | 0.63989 0.00032 43966
938 5082 | 0.64292 0.63184 0.62496 | 0.63981 0.00035
0.63986 0.00034 0.64000 0.00047 | 0.63988 0.00032 43990
939 4972 | 0.61802 0.62983 0.62963 | 0.63978 0.00035
0.63985 0.00034 0.63999 0.00047 | 0.63987 0.00032 43949
940 4795 | 0.65597 0.65366 0.65036 | 0.63980 0.00035
0.63987 0.00034 0.64000 0.00047 | 0.63988 0.00032 43908

941 5316 | 0.64864 0.64584 0.64964 | 0.63981 0.00035
0.63987 0.00034 0.64001 0.00047 | 0.63989 0.00032 43930
942 4916 | 0.64623 0.63855 0.66212 | 0.63982 0.00035
0.63987 0.00034 0.64003 0.00047 | 0.63989 0.00032 43968
943 4967 | 0.64822 0.64471 0.64950 | 0.63983 0.00035
0.63988 0.00034 0.64004 0.00047 | 0.63990 0.00032 43997

944	4997		0.65142	0.65555	0.66383		0.63984	0.00035
0.63989	0.00034		0.64007	0.00047		0.63992	0.00032	43903
945	5074		0.62484	0.63533	0.62979		0.63983	0.00035
0.63989	0.00034		0.64006	0.00047		0.63991	0.00032	43915
946	4841		0.63881	0.63195	0.65206		0.63982	0.00035
0.63988	0.00034		0.64007	0.00047		0.63991	0.00032	43959
947	5137		0.65976	0.65580	0.66071		0.63985	0.00035
0.63990	0.00034		0.64009	0.00047		0.63993	0.00032	43847
948	5144		0.63787	0.64512	0.62911		0.63984	0.00035
0.63990	0.00034		0.64008	0.00047		0.63993	0.00032	43895
949	4803		0.62718	0.62400	0.62258		0.63983	0.00035
0.63989	0.00034		0.64006	0.00047		0.63991	0.00032	43811
950	4909		0.64675	0.65292	0.66362		0.63984	0.00035
0.63990	0.00034		0.64009	0.00047		0.63993	0.00032	43760

951	5155		0.63925	0.63100	0.66205		0.63984	0.00035
0.63989	0.00034		0.64011	0.00047		0.63993	0.00032	43805
952	4917		0.63448	0.63958	0.61723		0.63983	0.00035
0.63989	0.00034		0.64009	0.00047		0.63992	0.00032	43833
953	4932		0.66036	0.66672	0.64526		0.63985	0.00035
0.63992	0.00034		0.64009	0.00047		0.63994	0.00032	43654
954	5254		0.64507	0.64592	0.63903		0.63986	0.00035
0.63993	0.00034		0.64009	0.00047		0.63995	0.00032	43688
955	4815		0.63122	0.62264	0.65523		0.63985	0.00035
0.63991	0.00034		0.64011	0.00047		0.63994	0.00032	43690
956	4881		0.62577	0.62443	0.63616		0.63984	0.00035
0.63989	0.00034		0.64011	0.00047		0.63992	0.00032	43648
957	4998		0.61484	0.62264	0.62551		0.63981	0.00035
0.63987	0.00034		0.64009	0.00047		0.63990	0.00032	43512
958	4875		0.64296	0.64938	0.64990		0.63981	0.00035
0.63988	0.00034		0.64010	0.00047		0.63991	0.00032	43525
959	5207		0.63138	0.63550	0.65120		0.63980	0.00035
0.63988	0.00034		0.64011	0.00047		0.63991	0.00032	43561
960	4945		0.63395	0.63494	0.66470		0.63980	0.00035
0.63987	0.00034		0.64014	0.00047		0.63991	0.00032	43597

961	4994		0.64296	0.64156	0.64228		0.63980	0.00035
0.63987	0.00034		0.64014	0.00047		0.63992	0.00032	43641
962	5128		0.63764	0.64968	0.64928		0.63980	0.00035
0.63989	0.00034		0.64015	0.00047		0.63992	0.00032	43655
963	4986		0.63674	0.62869	0.63740		0.63979	0.00035
0.63987	0.00034		0.64015	0.00047		0.63991	0.00032	43670
964	4986		0.65115	0.65559	0.63027		0.63981	0.00035
0.63989	0.00034		0.64014	0.00047		0.63992	0.00032	43676
965	5107		0.63636	0.65135	0.65187		0.63980	0.00035
0.63990	0.00034		0.64015	0.00047		0.63993	0.00032	43679
966	4904		0.65319	0.63499	0.63548		0.63982	0.00035
0.63990	0.00034		0.64015	0.00047		0.63993	0.00032	43729
967	5146		0.65382	0.65727	0.63602		0.63983	0.00035
0.63992	0.00034		0.64014	0.00047		0.63995	0.00032	43702
968	5028		0.63960	0.64774	0.64637		0.63983	0.00035
0.63992	0.00034		0.64015	0.00047		0.63995	0.00032	43727

969	4893		0.64385	0.63239	0.66138		0.63984	0.00035
0.63992	0.00034		0.64017	0.00047		0.63995	0.00032	43772
970	5029		0.64692	0.65542	0.64890		0.63984	0.00035
0.63993	0.00034		0.64018	0.00047		0.63997	0.00032	43742

971	5009		0.65156	0.65225	0.63504		0.63986	0.00035
0.63995	0.00034		0.64017	0.00046		0.63998	0.00032	43757
972	5006		0.64665	0.64828	0.65321		0.63986	0.00035
0.63996	0.00034		0.64019	0.00046		0.63998	0.00032	43759
973	5034		0.66205	0.65722	0.65943		0.63989	0.00035
0.63997	0.00034		0.64021	0.00046		0.64001	0.00032	43630
974	5104		0.64610	0.65322	0.64197		0.63989	0.00035
0.63999	0.00034		0.64021	0.00046		0.64002	0.00032	43632
975	4862		0.63477	0.63548	0.65079		0.63989	0.00035
0.63998	0.00034		0.64022	0.00046		0.64001	0.00032	43675
976	4931		0.65061	0.65084	0.64153		0.63990	0.00035
0.64000	0.00034		0.64022	0.00046		0.64002	0.00032	43685
977	5142		0.64630	0.63973	0.63915		0.63991	0.00035
0.64000	0.00034		0.64022	0.00046		0.64002	0.00032	43730
978	4957		0.63441	0.63765	0.62349		0.63990	0.00035
0.63999	0.00034		0.64021	0.00046		0.64002	0.00032	43758
979	4950		0.63001	0.63683	0.64097		0.63989	0.00035
0.63999	0.00034		0.64021	0.00046		0.64001	0.00032	43794
980	4931		0.63961	0.64116	0.64981		0.63989	0.00035
0.63999	0.00034		0.64022	0.00046		0.64002	0.00032	43838

981	5062		0.63595	0.63050	0.63162		0.63989	0.00035
0.63998	0.00034		0.64021	0.00046		0.64001	0.00032	43852
982	4944		0.65865	0.65366	0.63307		0.63991	0.00035
0.64000	0.00034		0.64020	0.00046		0.64002	0.00032	43856
983	5182		0.62697	0.62736	0.61984		0.63989	0.00035
0.63998	0.00034		0.64018	0.00046		0.64000	0.00032	43794
984	4820		0.64550	0.64453	0.63142		0.63990	0.00035
0.63999	0.00034		0.64017	0.00046		0.64001	0.00032	43845
985	5144		0.64605	0.64736	0.65000		0.63990	0.00035
0.63999	0.00034		0.64018	0.00046		0.64001	0.00031	43864
986	5008		0.61187	0.61412	0.62629		0.63987	0.00035
0.63997	0.00034		0.64016	0.00046		0.63999	0.00032	43617
987	4735		0.63515	0.63802	0.63615		0.63987	0.00035
0.63996	0.00034		0.64016	0.00046		0.63999	0.00032	43661
988	5182		0.63522	0.64007	0.62417		0.63986	0.00035
0.63996	0.00034		0.64014	0.00046		0.63998	0.00031	43697
989	5004		0.62654	0.62836	0.63105		0.63985	0.00035
0.63995	0.00034		0.64013	0.00046		0.63997	0.00031	43675
990	4881		0.63933	0.64099	0.63192		0.63985	0.00035
0.63995	0.00034		0.64012	0.00046		0.63997	0.00031	43723

991	5128		0.63207	0.63216	0.63371		0.63984	0.00035
0.63995	0.00034		0.64012	0.00046		0.63996	0.00031	43735
992	4922		0.63644	0.63237	0.64054		0.63984	0.00034
0.63994	0.00034		0.64012	0.00046		0.63996	0.00031	43770

993	5034		0.65207	0.64602	0.63853		0.63985	0.00034
0.63994	0.00034		0.64012	0.00046		0.63996	0.00031	43806
994	5097		0.63604	0.63444	0.64314		0.63985	0.00034
0.63994	0.00033		0.64012	0.00046		0.63996	0.00031	43844
995	4878		0.64158	0.64126	0.63916		0.63985	0.00034
0.63994	0.00033		0.64012	0.00046		0.63996	0.00031	43892
996	5093		0.62937	0.63181	0.64483		0.63984	0.00034
0.63993	0.00033		0.64012	0.00046		0.63995	0.00031	43916
997	4914		0.63302	0.62970	0.64155		0.63983	0.00034
0.63992	0.00033		0.64012	0.00045		0.63995	0.00031	43936
998	5055		0.62997	0.62777	0.64344		0.63982	0.00034
0.63991	0.00033		0.64013	0.00045		0.63994	0.00031	43944
999	4986		0.65322	0.65447	0.64832		0.63983	0.00034
0.63992	0.00033		0.64014	0.00045		0.63995	0.00031	43913
1000	5175		0.65921	0.66664	0.64087		0.63985	0.00034
0.63995	0.00033		0.64014	0.00045		0.63997	0.00031	43777

1001	5034		0.65929	0.65186	0.65896		0.63988	0.00034
0.63996	0.00033		0.64016	0.00045		0.63999	0.00031	43719
1002	4996		0.64378	0.64215	0.64453		0.63988	0.00034
0.63997	0.00033		0.64016	0.00045		0.63999	0.00031	43762
1003	4913		0.64180	0.64188	0.66724		0.63988	0.00034
0.63997	0.00033		0.64019	0.00045		0.64000	0.00031	43778
1004	4974		0.64192	0.64925	0.64857		0.63988	0.00034
0.63998	0.00033		0.64020	0.00045		0.64001	0.00031	43795
1005	5049		0.63880	0.63765	0.64452		0.63988	0.00034
0.63997	0.00033		0.64020	0.00045		0.64001	0.00031	43841
1006	4948		0.64951	0.65466	0.65111		0.63989	0.00034
0.63999	0.00033		0.64022	0.00045		0.64002	0.00031	43809
1007	5104		0.65465	0.65463	0.64525		0.63991	0.00034
0.64001	0.00033		0.64022	0.00045		0.64003	0.00031	43784
1008	5027		0.63402	0.63483	0.63962		0.63990	0.00034
0.64000	0.00033		0.64022	0.00045		0.64003	0.00031	43818
1009	4830		0.63879	0.63574	0.64623		0.63990	0.00034
0.64000	0.00033		0.64023	0.00045		0.64003	0.00031	43863
1010	5063		0.63793	0.64008	0.63233		0.63990	0.00034
0.64000	0.00033		0.64022	0.00045		0.64002	0.00031	43907

1011	4970		0.63086	0.63661	0.65113		0.63989	0.00034
0.63999	0.00033		0.64023	0.00045		0.64002	0.00031	43948
1012	4939		0.62549	0.63427	0.62701		0.63987	0.00034
0.63999	0.00033		0.64022	0.00045		0.64001	0.00031	43947
1013	4993		0.63179	0.63452	0.64844		0.63987	0.00034
0.63998	0.00033		0.64022	0.00045		0.64001	0.00031	43985
1014	5042		0.65025	0.65940	0.63730		0.63988	0.00034
0.64000	0.00033		0.64022	0.00045		0.64002	0.00031	43956
1015	5140		0.63568	0.62741	0.62518		0.63987	0.00034
0.63999	0.00033		0.64021	0.00045		0.64001	0.00031	43939
1016	4874		0.65542	0.64257	0.65553		0.63989	0.00034
0.63999	0.00033		0.64022	0.00045		0.64002	0.00031	43958
1017	5133		0.64049	0.65405	0.63728		0.63989	0.00034
0.64000	0.00033		0.64022	0.00045		0.64003	0.00031	43976

1018	4909		0.63883	0.64669	0.64942		0.63989	0.00034
0.64001	0.00033		0.64023	0.00045		0.64003	0.00031	44005
1019	4995		0.64081	0.63663	0.64992		0.63989	0.00034
0.64001	0.00033		0.64024	0.00045		0.64003	0.00031	44049
1020	4995		0.64930	0.65665	0.62103		0.63990	0.00034
0.64003	0.00033		0.64022	0.00045		0.64004	0.00031	44077

1021	5079		0.63465	0.62109	0.63624		0.63989	0.00034
0.64001	0.00033		0.64021	0.00045		0.64003	0.00031	44043
1022	4883		0.63416	0.63447	0.65001		0.63989	0.00034
0.64000	0.00033		0.64022	0.00045		0.64003	0.00031	44084
1023	4956		0.62329	0.62328	0.63065		0.63987	0.00034
0.63998	0.00033		0.64021	0.00045		0.64001	0.00031	44012
1024	4911		0.64301	0.63748	0.65865		0.63987	0.00034
0.63998	0.00033		0.64023	0.00045		0.64001	0.00031	44052
1025	5170		0.64860	0.65168	0.64133		0.63988	0.00034
0.63999	0.00033		0.64023	0.00045		0.64002	0.00031	44064
1026	5044		0.64105	0.64216	0.63323		0.63988	0.00034
0.63999	0.00033		0.64023	0.00045		0.64002	0.00031	44111
1027	4939		0.65464	0.65046	0.63531		0.63990	0.00034
0.64001	0.00033		0.64022	0.00045		0.64003	0.00031	44135
1028	5058		0.64795	0.65822	0.65545		0.63991	0.00034
0.64002	0.00033		0.64024	0.00044		0.64005	0.00031	44066
1029	4930		0.64042	0.63887	0.65566		0.63991	0.00034
0.64002	0.00033		0.64025	0.00044		0.64005	0.00031	44107
1030	4953		0.64256	0.64581	0.63739		0.63991	0.00034
0.64003	0.00033		0.64025	0.00044		0.64005	0.00031	44149

1031	5010		0.64919	0.64677	0.64372		0.63992	0.00034
0.64004	0.00033		0.64025	0.00044		0.64006	0.00031	44178
1032	5058		0.63509	0.64164	0.62697		0.63991	0.00034
0.64004	0.00033		0.64024	0.00044		0.64006	0.00031	44217
1033	4898		0.60677	0.61046	0.62501		0.63988	0.00034
0.64001	0.00033		0.64022	0.00044		0.64003	0.00031	43893
1034	4786		0.62969	0.62917	0.62478		0.63987	0.00034
0.64000	0.00033		0.64021	0.00044		0.64002	0.00031	43871
1035	5191		0.64490	0.64287	0.65270		0.63988	0.00034
0.64000	0.00033		0.64022	0.00044		0.64002	0.00031	43900
1036	5101		0.64973	0.64645	0.65258		0.63989	0.00034
0.64001	0.00033		0.64023	0.00044		0.64003	0.00031	43912
1037	5026		0.62602	0.63097	0.61717		0.63987	0.00034
0.64000	0.00033		0.64021	0.00044		0.64002	0.00031	43868
1038	4807		0.63597	0.63393	0.61967		0.63987	0.00034
0.63999	0.00033		0.64019	0.00044		0.64001	0.00031	43878
1039	5127		0.64034	0.64786	0.65078		0.63987	0.00034
0.64000	0.00033		0.64020	0.00044		0.64002	0.00031	43898
1040	5048		0.65730	0.65238	0.66001		0.63989	0.00034
0.64001	0.00033		0.64022	0.00044		0.64003	0.00031	43838

1041	5104		0.62548	0.62476	0.65023		0.63987	0.00034
0.64000	0.00033		0.64023	0.00044		0.64002	0.00031	43834

1042	4751	0.64712	0.64983	0.63137	0.63988	0.00034
0.64001	0.00033	0.64022	0.00044	0.64003	0.00031	43873
1043	5174	0.61811	0.63433	0.61160	0.63986	0.00034
0.64000	0.00033	0.64019	0.00044	0.64001	0.00031	43810
1044	4782	0.64956	0.64373	0.64010	0.63987	0.00034
0.64000	0.00033	0.64019	0.00044	0.64002	0.00031	43854
1045	5287	0.63128	0.63320	0.65289	0.63986	0.00034
0.64000	0.00033	0.64021	0.00044	0.64002	0.00031	43888
1046	4888	0.63471	0.63700	0.66375	0.63985	0.00034
0.63999	0.00033	0.64023	0.00044	0.64002	0.00030	43925
1047	4983	0.63417	0.63187	0.66060	0.63985	0.00034
0.63999	0.00033	0.64025	0.00044	0.64002	0.00030	43965
1048	5033	0.62511	0.63624	0.63681	0.63983	0.00034
0.63998	0.00033	0.64025	0.00044	0.64001	0.00030	43985
1049	4889	0.64598	0.63510	0.64054	0.63984	0.00033
0.63998	0.00033	0.64025	0.00044	0.64001	0.00030	44035
1050	5193	0.63946	0.64199	0.63901	0.63984	0.00033
0.63998	0.00033	0.64025	0.00044	0.64001	0.00030	44079

the largest active cycle keffs by estimator are:
 the smallest active cycle keffs by estimator are:

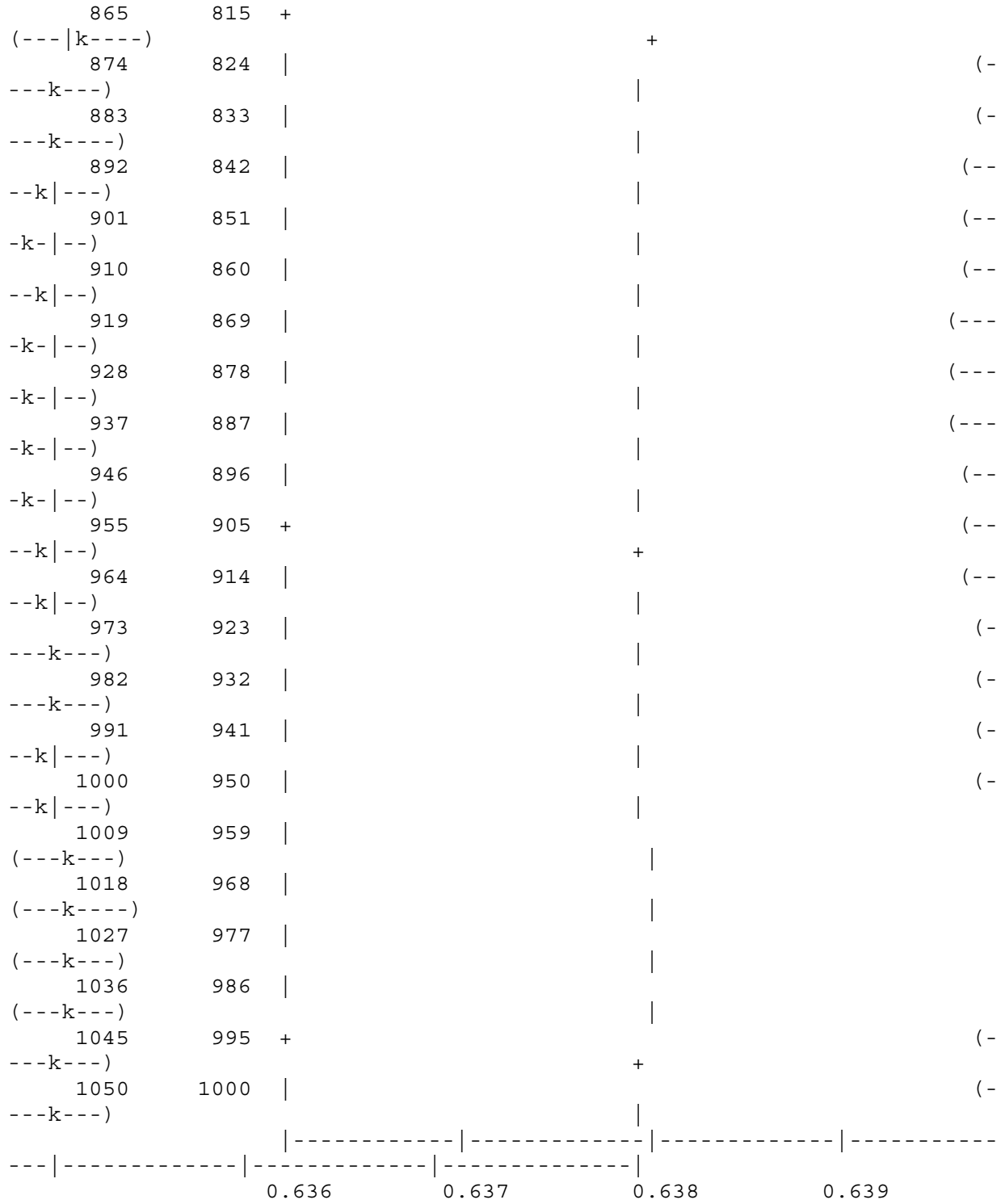
collision 0.66891 on cycle 81
 collision 0.60677 on cycle 1033
 absorption 0.67175 on cycle 446
 absorption 0.60987 on cycle 561
 track length 0.68436 on cycle 504
 track length 0.59332 on cycle 243
 1plot of the estimated col/abs/track-length keff one standard deviation
 interval versus cycle number (| = final keff = 0.64001)

cycle	active	0.636	0.637	0.638	0.639
0.640	0.641	0.642	0.643		
number	cycles	-----	-----	-----	-----
64	14			(-----)	
73	23		(-----)		-----k-----
82	32			(-----)	-----k-----
91	41				(-----)
100	50				(-----)
109	59				(-----)
118	68				
127	77				

136	86				(--
--- -----k-----)					
145	95	+			(-
--- -----k-----)			+		
154	104				(--
--- -----k-----)					
163	113				(--
--- -----k-----)					
172	122				(-----
--- k-----)					
181	131				(-----k-
--- -----)					
190	140				(-----k---
--- -----)					
199	149				(-----
--- k-----)					
208	158				(-----
--- -k-----)					
217	167				(-----
--- -k-----)					
226	176				(---
--- --k-----)					
235	185	+			(-
--- ---k-----)			+		
244	194				(-
--- -----k-----)					
253	203				
(-- -----k-----)					
262	212				(-
--- -----k-----)					
271	221				
(-- -----k-----)					
280	230				
(-- -----k-----)					
289	239				
(- -----k-----)					
298	248				
(-----k-----)					
307	257				
(-----k-----)					
316	266				
(-----k-----)					
325	275	+			
(-----k-----)			+		
334	284				
(-----k-----)					
343	293				
(-----k-----)					
352	302				
(-----k-----)					
361	311				
(-----k-----)					
370	320				
(-----k-----)					

379	329		
(-----k-----)			
388	338		
-----k-----)			
397	347		
-----k-----)			
406	356		
(-----k-----)			
415	365	+	
(-----k-----)			+
424	374		
(-----k-----)			
433	383		
(-----k-----)			
442	392		
(-----k-----)			
451	401		
(-----k-----)			
460	410		
(-----k-----)			
469	419		
(-----k-----)			
478	428		
(-----k-----)			
487	437		
(-----k-----)			
496	446		
(-----k-----)			
505	455	+	
(-----k-----)			+
514	464		
(-----k-----)			
523	473		
(-----k-----)			
532	482		
(-----k-----)			
541	491		
(-----k-----)			
550	500		
(-----k-----)			
559	509		
(-----k-----)			
568	518		
(-----k-----)			
577	527		
(-----k-----)			
586	536		
-----k-----)			
595	545	+	
(-----k-----)			+
604	554		
(-----k-----)			
613	563		
(- ---k-----)			

622	572			
(-- --k-----)				
631	581			
(--- k-----)				
640	590			(-
--- k-----)				
649	599			(--
---k-----)				
658	608			(-
---k-----)				
667	617			(-
---k-----)				
676	626			(-
---k-----)				
685	635	+		
(--- k-----)			+	
694	644			
(--- k-----)				
703	653			
(--- -k-----)				
712	662			
(--- -k-----)				
721	671			
(-- -k-----)				
730	680			
(-- -k-----)				
739	689			
(--- k-----)				
748	698			(-
---k-----)				
757	707			
(--- -k-----)				
766	716			(-
--- k-----)				
775	725	+		(-
---k-----)			+	
784	734			(-
---k-----)				
793	743			(-
---k-----)				
802	752			(-
---k-----)				
811	761			(-
---k-----)				
820	770			(-
---k-----)				
829	779			
(--- k-----)				
838	788			
(--- k-----)				
847	797			
(--- k-----)				
856	806			
(--- k-----)				



individual and collision/absorption/track-length keffs for different numbers of inactive cycles skipped for fission source settling

skip active active average keff estimators and deviations
normality average k(c/a/t) k(c/a/t) confidence intervals

cycles co/ab/tl	cycles k(c/a/t)	neutrons st dev	k(col) 95% confidence	st dev confidence	k(abs) 99% confidence	st dev confidence	k(trk)	st dev
0	1050	5249701	0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.63999	0.00030	0.63940-0.64058		0.63920-0.64077			
1	1049	5244701	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64002	0.00030	0.63943-0.64061		0.63923-0.64080			
2	1048	5241608	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64003	0.00030	0.63944-0.64062		0.63924-0.64081			
3	1047	5236514	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64004	0.00030	0.63945-0.64063		0.63926-0.64082			
4	1046	5231625	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64003	0.00030	0.63944-0.64062		0.63925-0.64081			
5	1045	5226437	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64003	0.00030	0.63944-0.64062		0.63924-0.64081			
6	1044	5221470	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64003	0.00030	0.63944-0.64062		0.63925-0.64082			
7	1043	5216570	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64004	0.00030	0.63945-0.64063		0.63925-0.64082			
8	1042	5211591	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64005	0.00030	0.63946-0.64064		0.63926-0.64084			
9	1041	5206559	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64006	0.00030	0.63946-0.64065		0.63927-0.64084			
10	1040	5201507	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64005	0.00030	0.63946-0.64065		0.63927-0.64084			

11	1039	5196490	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64006	0.00030	0.63946-0.64065		0.63927-0.64084			
12	1038	5191436	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64006	0.00030	0.63947-0.64066		0.63927-0.64085			
13	1037	5186511	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64006	0.00030	0.63946-0.64065		0.63927-0.64085			
14	1036	5181430	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64006	0.00030	0.63947-0.64066		0.63927-0.64085			
15	1035	5176481	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64006	0.00030	0.63947-0.64066		0.63927-0.64085			
16	1034	5171474	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64007	0.00030	0.63947-0.64067		0.63928-0.64086			
17	1033	5166489	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64007	0.00030	0.63947-0.64067		0.63928-0.64086			
18	1032	5161551	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64006	0.00030	0.63947-0.64066		0.63927-0.64085			
19	1031	5156488	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64004	0.00030	0.63945-0.64064		0.63925-0.64084			
20	1030	5151375	0.6399	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64005	0.00030	0.63945-0.64064		0.63925-0.64084			

24	1026	5131465	0.6399	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64002	0.00030	0.63942-0.64061		0.63922-0.64081			
33	1017	5086622	0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.63998	0.00030	0.63938-0.64059		0.63919-0.64078			

42	1008	5041535	0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.63999	0.00030	0.63939-0.64060	0.63919-0.64079				
50	1000*	5001757	0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64001	0.00030	0.63941-0.64062	0.63921-0.64081				
51	999	4996558	0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64000	0.00030	0.63940-0.64061	0.63920-0.64080				
60	990	4951557	0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.63999	0.00031	0.63938-0.64060	0.63918-0.64080				
69	981	4906483	0.6398	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64000	0.00031	0.63939-0.64062	0.63919-0.64082				
78	972	4861450	0.6398	0.0003	0.6400	0.0003	0.6403	0.0004
95/95/95	0.64002	0.00031	0.63940-0.64063	0.63920-0.64084				
87	963	4816463	0.6398	0.0003	0.6400	0.0003	0.6402	0.0004
95/95/95	0.64001	0.00031	0.63939-0.64063	0.63919-0.64083				
96	954	4771315	0.6397	0.0003	0.6400	0.0003	0.6401	0.0004
95/95/95	0.63994	0.00031	0.63932-0.64056	0.63911-0.64076				

105	945	4726246	0.6397	0.0003	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63992	0.00031	0.63930-0.64054	0.63909-0.64074				
114	936	4681302	0.6397	0.0003	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63992	0.00031	0.63929-0.64054	0.63909-0.64075				
123	927	4636332	0.6397	0.0003	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63991	0.00032	0.63928-0.64054	0.63908-0.64075				
132	918	4591393	0.6397	0.0003	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63994	0.00032	0.63931-0.64058	0.63910-0.64078				
141	909	4546434	0.6397	0.0003	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63994	0.00032	0.63930-0.64057	0.63910-0.64078				
150	900	4501506	0.6397	0.0004	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63993	0.00032	0.63929-0.64057	0.63908-0.64078				
159	891	4456568	0.6398	0.0004	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63996	0.00032	0.63931-0.64060	0.63910-0.64081				
168	882	4411725	0.6398	0.0004	0.6400	0.0003	0.6400	0.0005
95/95/95	0.63997	0.00032	0.63932-0.64061	0.63911-0.64082				
177	873	4366643	0.6398	0.0004	0.6401	0.0003	0.6400	0.0005
95/95/95	0.64001	0.00032	0.63936-0.64066	0.63915-0.64087				
186	864	4321574	0.6399	0.0004	0.6402	0.0004	0.6400	0.0005
95/95/95	0.64005	0.00033	0.63939-0.64070	0.63918-0.64091				

195	855	4276538	0.6398	0.0004	0.6401	0.0004	0.6399	0.0005
95/95/95	0.64002	0.00033	0.63936-0.64067	0.63915-0.64089				
204	846	4231453	0.6398	0.0004	0.6401	0.0004	0.6399	0.0005
95/95/95	0.63996	0.00033	0.63930-0.64061	0.63908-0.64083				
213	837	4186296	0.6397	0.0004	0.6400	0.0004	0.6399	0.0005
95/95/95	0.63993	0.00033	0.63927-0.64059	0.63905-0.64080				
222	828	4141425	0.6398	0.0004	0.6401	0.0004	0.6399	0.0005
95/95/95	0.63997	0.00033	0.63931-0.64063	0.63909-0.64085				
231	819	4096548	0.6397	0.0004	0.6400	0.0004	0.6399	0.0005
95/95/95	0.63992	0.00033	0.63925-0.64059	0.63904-0.64081				
240	810	4051315	0.6396	0.0004	0.6400	0.0004	0.6399	0.0005
95/95/95	0.63987	0.00033	0.63920-0.64053	0.63899-0.64075				
249	801	4006307	0.6397	0.0004	0.6400	0.0004	0.6399	0.0005
95/95/95	0.63987	0.00033	0.63920-0.64053	0.63899-0.64075				

258	792	3961366	0.6397	0.0004	0.6400	0.0004	0.6399	0.0005
95/95/95	0.63989	0.00033	0.63922-0.64056		0.63901-0.64077			
267	783	3916158	0.6397	0.0004	0.6399	0.0004	0.6399	0.0005
95/95/95	0.63986	0.00034	0.63919-0.64053		0.63897-0.64075			
276	774	3871076	0.6397	0.0004	0.6400	0.0004	0.6399	0.0005
95/95/95	0.63988	0.00034	0.63920-0.64056		0.63898-0.64078			

285	765	3825952	0.6397	0.0004	0.6399	0.0004	0.6399	0.0005
95/95/95	0.63983	0.00034	0.63915-0.64051		0.63893-0.64073			
294	756	3780987	0.6396	0.0004	0.6399	0.0004	0.6398	0.0005
95/95/95	0.63980	0.00034	0.63912-0.64049		0.63890-0.64071			
303	747	3735921	0.6396	0.0004	0.6398	0.0004	0.6398	0.0005
95/95/95	0.63976	0.00035	0.63907-0.64045		0.63885-0.64067			
312	738	3691034	0.6396	0.0004	0.6398	0.0004	0.6399	0.0005
95/95/95	0.63980	0.00035	0.63911-0.64050		0.63888-0.64072			
321	729	3645884	0.6396	0.0004	0.6398	0.0004	0.6400	0.0005
95/95/95	0.63978	0.00035	0.63908-0.64048		0.63885-0.64070			
330	720	3600798	0.6395	0.0004	0.6397	0.0004	0.6400	0.0005
95/95/95	0.63975	0.00035	0.63904-0.64045		0.63881-0.64068			
339	711	3555931	0.6395	0.0004	0.6398	0.0004	0.6400	0.0005
95/95/95	0.63976	0.00036	0.63905-0.64047		0.63882-0.64070			
348	702	3510849	0.6395	0.0004	0.6397	0.0004	0.6400	0.0005
95/95/95	0.63974	0.00036	0.63903-0.64046		0.63879-0.64069			
357	693	3465927	0.6395	0.0004	0.6397	0.0004	0.6401	0.0005
95/95/95	0.63975	0.00036	0.63902-0.64047		0.63879-0.64071			
366	684	3420890	0.6394	0.0004	0.6397	0.0004	0.6401	0.0005
95/95/95	0.63971	0.00036	0.63899-0.64043		0.63875-0.64067			

375	675	3375767	0.6394	0.0004	0.6396	0.0004	0.6400	0.0005
95/95/95	0.63966	0.00037	0.63893-0.64039		0.63869-0.64063			
384	666	3330883	0.6394	0.0004	0.6396	0.0004	0.6400	0.0005
95/95/95	0.63966	0.00037	0.63894-0.64039		0.63870-0.64063			
393	657	3285873	0.6394	0.0004	0.6396	0.0004	0.6401	0.0005
95/95/95	0.63968	0.00037	0.63894-0.64041		0.63870-0.64065			
402	648	3240635	0.6394	0.0004	0.6397	0.0004	0.6400	0.0005
95/95/95	0.63969	0.00037	0.63896-0.64043		0.63872-0.64066			
411	639	3195929	0.6394	0.0004	0.6396	0.0004	0.6399	0.0005
95/95/95	0.63962	0.00037	0.63888-0.64035		0.63864-0.64059			
420	630	3151124	0.6393	0.0004	0.6396	0.0004	0.6400	0.0005
95/95/95	0.63961	0.00037	0.63887-0.64035		0.63862-0.64059			
429	621	3106048	0.6393	0.0004	0.6396	0.0004	0.6400	0.0005
95/95/95	0.63961	0.00038	0.63886-0.64036		0.63861-0.64060			
438	612	3060963	0.6393	0.0004	0.6396	0.0004	0.6400	0.0006
95/95/95	0.63962	0.00038	0.63887-0.64038		0.63862-0.64063			
447	603	3015741	0.6393	0.0004	0.6396	0.0004	0.6399	0.0006
95/95/95	0.63958	0.00038	0.63881-0.64034		0.63856-0.64059			
456	594	2970895	0.6392	0.0004	0.6395	0.0004	0.6398	0.0006
95/95/95	0.63952	0.00039	0.63875-0.64028		0.63850-0.64053			

465	585	2925872	0.6392	0.0004	0.6395	0.0004	0.6398	0.0006
95/95/95	0.63949	0.00039	0.63871-0.64026		0.63846-0.64051			

474	576	2881005		0.6391	0.0004	0.6395	0.0004	0.6399	0.0006
95/95/95	0.63950	0.00039		0.63872-0.64028		0.63846-0.64053			
483	567	2836115		0.6392	0.0004	0.6395	0.0004	0.6400	0.0006
95/95/95	0.63954	0.00040		0.63875-0.64033		0.63849-0.64059			
492	558	2791199		0.6392	0.0004	0.6395	0.0004	0.6399	0.0006
95/95/95	0.63950	0.00040		0.63871-0.64029		0.63845-0.64055			
501	549	2746079		0.6391	0.0004	0.6394	0.0004	0.6397	0.0006
95/95/95	0.63942	0.00040		0.63863-0.64021		0.63837-0.64047			
510	540	2701338		0.6390	0.0004	0.6394	0.0004	0.6396	0.0006
95/95/95	0.63936	0.00040		0.63857-0.64016		0.63831-0.64042			
519	531	2656194		0.6391	0.0004	0.6394	0.0004	0.6397	0.0006
95/95/95	0.63942	0.00040		0.63862-0.64023		0.63836-0.64049			
528	522	2611148		0.6391	0.0005	0.6395	0.0004	0.6397	0.0006
95/95/95	0.63943	0.00041		0.63862-0.64024		0.63835-0.64051			
537	513	2565947		0.6391	0.0005	0.6395	0.0004	0.6397	0.0006
95/95/95	0.63943	0.00041		0.63861-0.64025		0.63834-0.64052			
546	504	2520953		0.6391	0.0005	0.6395	0.0005	0.6397	0.0006
95/95/95	0.63943	0.00042		0.63860-0.64026		0.63833-0.64053			

550	500	2500880		0.6390	0.0005	0.6395	0.0005	0.6397	0.0006
95/95/95	0.63941	0.00042		0.63858-0.64024		0.63830-0.64051			
555	495	2476053		0.6390	0.0005	0.6394	0.0005	0.6397	0.0006
95/95/95	0.63938	0.00042		0.63855-0.64022		0.63827-0.64050			
564	486	2431097		0.6391	0.0005	0.6395	0.0005	0.6397	0.0006
95/95/95	0.63947	0.00042		0.63863-0.64030		0.63836-0.64058			
573	477	2386168		0.6390	0.0005	0.6395	0.0005	0.6396	0.0006
95/95/95	0.63941	0.00043		0.63856-0.64026		0.63829-0.64054			
582	468	2341189		0.6390	0.0005	0.6395	0.0005	0.6396	0.0006
95/95/95	0.63941	0.00043		0.63854-0.64027		0.63826-0.64055			
591	459	2296020		0.6390	0.0005	0.6395	0.0005	0.6397	0.0006
95/95/95	0.63941	0.00044		0.63854-0.64028		0.63825-0.64056			
600	450	2251128		0.6391	0.0005	0.6395	0.0005	0.6398	0.0006
95/95/95	0.63949	0.00044		0.63861-0.64038		0.63832-0.64067			
609	441	2205954		0.6391	0.0005	0.6395	0.0005	0.6398	0.0007
95/95/95	0.63948	0.00045		0.63859-0.64038		0.63829-0.64067			
618	432	2160991		0.6392	0.0005	0.6397	0.0005	0.6401	0.0006
95/95/95	0.63966	0.00045		0.63876-0.64056		0.63846-0.64085			
627	423	2116214		0.6392	0.0005	0.6397	0.0005	0.6401	0.0007
95/95/95	0.63967	0.00046		0.63875-0.64059		0.63846-0.64089			

636	414	2070986		0.6393	0.0005	0.6399	0.0005	0.6404	0.0007
95/95/95	0.63982	0.00046		0.63890-0.64074		0.63860-0.64104			
645	405	2026172		0.6394	0.0005	0.6399	0.0005	0.6405	0.0007
95/95/95	0.63992	0.00047		0.63899-0.64086		0.63869-0.64116			
654	396	1980955		0.6394	0.0005	0.6399	0.0005	0.6406	0.0007
95/95/95	0.63992	0.00047		0.63898-0.64086		0.63867-0.64117			
663	387	1936048		0.6393	0.0005	0.6399	0.0005	0.6406	0.0007
95/95/95	0.63990	0.00048		0.63894-0.64085		0.63863-0.64116			
672	378	1890938		0.6393	0.0005	0.6398	0.0005	0.6406	0.0007
95/95/95	0.63987	0.00049		0.63890-0.64084		0.63859-0.64115			
681	369	1845672		0.6393	0.0005	0.6398	0.0005	0.6406	0.0007
95/95/95	0.63988	0.00049		0.63890-0.64086		0.63859-0.64118			

690	360	1800703	0.6392	0.0005	0.6398	0.0006	0.6408	0.0007
95/95/95	0.63989	0.00050	0.63890-0.64089		0.63857-0.64122			
699	351	1755928	0.6391	0.0006	0.6396	0.0006	0.6407	0.0007
95/95/95	0.63979	0.00051	0.63878-0.64080		0.63845-0.64112			
708	342	1710914	0.6391	0.0006	0.6396	0.0006	0.6406	0.0007
95/95/95	0.63971	0.00051	0.63871-0.64072		0.63838-0.64105			
717	333	1665864	0.6392	0.0006	0.6397	0.0006	0.6405	0.0007
95/95/95	0.63977	0.00051	0.63875-0.64079		0.63842-0.64112			

726	324	1620854	0.6392	0.0006	0.6396	0.0006	0.6404	0.0007
95/95/95	0.63968	0.00052	0.63865-0.64071		0.63832-0.64104			
735	315	1575945	0.6394	0.0006	0.6397	0.0006	0.6407	0.0007
95/95/95	0.63987	0.00052	0.63883-0.64091		0.63849-0.64125			
744	306	1530871	0.6395	0.0006	0.6397	0.0006	0.6407	0.0008
95/95/95	0.63991	0.00053	0.63886-0.64096		0.63851-0.64131			
753	297	1485961	0.6394	0.0006	0.6396	0.0006	0.6409	0.0008
95/95/95	0.63988	0.00054	0.63881-0.64095		0.63846-0.64130			
762	288	1441027	0.6395	0.0006	0.6396	0.0006	0.6409	0.0008
95/95/95	0.63992	0.00054	0.63885-0.64098		0.63850-0.64133			
771	279	1396014	0.6396	0.0006	0.6396	0.0006	0.6410	0.0008
95/95/95	0.63998	0.00055	0.63888-0.64107		0.63852-0.64143			
780	270	1350864	0.6396	0.0006	0.6397	0.0006	0.6410	0.0008
95/95/95	0.64003	0.00056	0.63890-0.64115		0.63854-0.64151			
789	261	1306002	0.6397	0.0006	0.6397	0.0006	0.6409	0.0008
95/95/95	0.64002	0.00057	0.63888-0.64115		0.63851-0.64152			
798	252	1260934	0.6397	0.0006	0.6397	0.0007	0.6408	0.0008
95/95/95	0.63995	0.00058	0.63878-0.64111		0.63840-0.64149			
807	243	1216199	0.6398	0.0006	0.6398	0.0007	0.6410	0.0008
95/95/95	0.64013	0.00059	0.63894-0.64131		0.63856-0.64170			

816	234	1170990	0.6397	0.0007	0.6396	0.0007	0.6411	0.0008
95/95/95	0.64004	0.00060	0.63885-0.64122		0.63847-0.64161			
825	225	1125925	0.6397	0.0007	0.6396	0.0007	0.6411	0.0009
95/95/95	0.64007	0.00061	0.63886-0.64128		0.63846-0.64167			
834	216	1080865	0.6396	0.0007	0.6395	0.0007	0.6408	0.0009
95/95/95	0.63989	0.00061	0.63867-0.64111		0.63828-0.64150			
843	207	1035755	0.6396	0.0007	0.6394	0.0007	0.6407	0.0009
95/95/95	0.63984	0.00063	0.63859-0.64109		0.63818-0.64150			
852	198	990612	0.6395	0.0007	0.6394	0.0007	0.6405	0.0009
95/95/95	0.63975	0.00065	0.63847-0.64104		0.63805-0.64146			
861	189	945714	0.6394	0.0007	0.6395	0.0008	0.6407	0.0009
95/95/99	0.63984	0.00066	0.63853-0.64115		0.63810-0.64158			
870	180	900744	0.6395	0.0008	0.6396	0.0008	0.6410	0.0009
95/95/99	0.64003	0.00067	0.63869-0.64137		0.63825-0.64181			
879	171	855638	0.6397	0.0008	0.6397	0.0008	0.6411	0.0010
95/95/99	0.64019	0.00069	0.63881-0.64157		0.63837-0.64201			
888	162	810293	0.6397	0.0008	0.6398	0.0008	0.6414	0.0010
95/95/99	0.64031	0.00071	0.63891-0.64172		0.63845-0.64218			
897	153	765407	0.6399	0.0008	0.6400	0.0008	0.6420	0.0010
95/95/95	0.64071	0.00073	0.63925-0.64216		0.63878-0.64264			

906	144	720267	0.6399	0.0009	0.6402	0.0009	0.6419	0.0010
95/95/99	0.64072	0.00076	0.63920-0.64223	0.63871-0.64273				
915	135	675388	0.6402	0.0009	0.6406	0.0009	0.6418	0.0011
95/95/95	0.64097	0.00079	0.63940-0.64254	0.63889-0.64306				
924	126	630326	0.6405	0.0009	0.6408	0.0010	0.6418	0.0011
95/95/95	0.64113	0.00083	0.63948-0.64277	0.63894-0.64331				
933	117	585199	0.6401	0.0010	0.6408	0.0010	0.6418	0.0012
95/95/95	0.64103	0.00087	0.63930-0.64276	0.63874-0.64333				
942	108	540209	0.6400	0.0010	0.6409	0.0011	0.6420	0.0012
95/95/95	0.64112	0.00091	0.63931-0.64293	0.63872-0.64352				
951	99	495182	0.6398	0.0011	0.6408	0.0011	0.6414	0.0012
95/95/95	0.64088	0.00092	0.63906-0.64271	0.63846-0.64330				
960	90	450358	0.6403	0.0011	0.6411	0.0011	0.6413	0.0012
95/95/95	0.64101	0.00094	0.63915-0.64288	0.63854-0.64348				
969	81	405186	0.6399	0.0012	0.6407	0.0012	0.6411	0.0013
95/95/95	0.64080	0.00102	0.63876-0.64283	0.63809-0.64350				
978	72	360112	0.6390	0.0013	0.6398	0.0012	0.6408	0.0014
95/95/95	0.64014	0.00109	0.63797-0.64231	0.63726-0.64302				
987	63	315336	0.6394	0.0013	0.6402	0.0013	0.6415	0.0015
95/95/95	0.64063	0.00115	0.63834-0.64293	0.63758-0.64368				

996	54	270117	0.6398	0.0015	0.6408	0.0015	0.6424	0.0017
95/95/95	0.64133	0.00130	0.63871-0.64394	0.63784-0.64482				
1005	45	225021	0.6389	0.0016	0.6401	0.0016	0.6411	0.0019
95/95/95	0.64031	0.00141	0.63746-0.64316	0.63650-0.64412				
1014	36	180105	0.6388	0.0018	0.6394	0.0018	0.6409	0.0023
95/95/95	0.63979	0.00162	0.63649-0.64308	0.63536-0.64422				
1023	27	135141	0.6387	0.0022	0.6398	0.0019	0.6414	0.0028
95/95/95	0.64058	0.00190	0.63666-0.64449	0.63527-0.64589				
1032	18	90068	0.6356	0.0030	0.6368	0.0024	0.6405	0.0038
95/95/95	0.63814	0.00252	0.63278-0.64350	0.63073-0.64555				
1041	9	44980	0.6362	0.0035	0.6381	0.0020	0.6419	0.0053
95/95/95	0.63957	0.00183	0.63510-0.64403	0.63280-0.64634				
1047	3	15115	0.6368	0.0062	0.6378	0.0021	0.6388	0.0011
1048	2	10082	0.6427	0.0033	0.6385	0.0034	0.6398	0.0008

the minimum estimated standard deviation for the col/abs/tl keff estimator occurs with 1 inactive cycles and 1049 active cycles.

the first active half of the problem skips 50 cycles and uses 500 active cycles; the second half skips 550 and uses 500 cycles.

the col/abs/trk-len keff, one standard deviation, and 68, 95, and 99 percent intervals for each active half of the problem are:

confidence	problem	keff	standard deviation	68%
	95% confidence		99% confidence	
0.64103	first half	0.64059	0.00044	0.64014 to
	0.63971 to 0.64146	0.63942	to 0.64175	
0.63983	second half	0.63941	0.00042	0.63899 to
	0.63858 to 0.64024	0.63830	to 0.64051	

final result 0.64001 0.00030 0.63971 to
 0.64031 0.63941 to 0.64062 0.63921 to 0.64081

the first and second half values of k(collision/absorption/track length)
 appear to be the same at the 95 percent confidence level.
 1plot of the estimated col/abs/track-length keff one standard deviation
 interval by active cycle number (| = final keff = 0.64001)

inactive 0.641 cycles	active 0.642 cycles	0.637 0.642	0.638 0.643	0.639	0.640
)	0	1050			(----k ---
-)	9	1041			(----k---
--)	18	1032			(--- k--
)	27	1023			(----k ---
)	36	1014			(----k ---
)	45	1005			(----k ---
-)	54	996			(----k ---
)	63	987			(----k ---
-)	72	978			(----k ---
-)	81	969	+		(----k ---
)	90	960		+	(----k ---
)	99	951			(-----k ---
)	108	942			(----k- ---
	117	933			(----k- --)
)	126	924			(----k- ---
)	135	915			(-----k ---
)	144	906			(----k- ---
)	153	897			(-----k ---
)	162	888			(----k- ---
)	171	879	+		(----k ---
-)	180	870		+	(-----k---

	189	861			(----k---
--)					
	198	852			(----k ---
-)					
	207	843			(-----k ---
)					
	216	834			(-----k ---
)					
	225	825			(----k- ---
)					
	234	816			(----k-- --)
	243	807			(-----k- --)
	252	798			(-----k-- -)
	261	789	+		(-----k- --)
+					
	270	780			(-----k-- --)
	279	771			(-----k-- --)
	288	762			(----k--- -)
	297	753			(-----k---)
	306	744			(-----k--- -)
	315	735			(-----k---)
	324	726			(-----k--- -)
	333	717			(-----k----)
	342	708			(-----k----)
	351	699	+		(-----k----)
+					
	360	690			(-----k----)
	369	681			(-----k-----
	378	672			(-----k-----
	387	663			(-----k-----)
	396	654			(-----k-----)
	405	645			(-----k-----
	414	636			(-----k-----)
	423	627			(-----k-----)

	432	618		(-----k-----)
	441	609	+	(-----k-----)
+	450	600		(-----k-----)
	459	591		(-----k-----)
	468	582		(-----k-----)
	477	573		(-----k-----)
	486	564		(-----k-----)
	495	555		(-----k-----)
	504	546		(-----k-----)
	513	537		(-----k-----)
	522	528		(-----k-----)
	531	519	+	(-----k-----)
+	540	510		(-----k-----)
	549	501		(-----k-----)
	558	492		(-----k-----)
	567	483		(-----k-----)
	576	474		(-----k-----)
	585	465		(-----k-----)
	594	456		(-----k-----)
	603	447		(-----k-----)
	612	438		(-----k-----)
	621	429	+	(-----k-----)
+	630	420		(-----k--- ---
)	639	411		(-----k-- ---
-)	648	402		(-----k ---
---)	657	393		(-----k- ---
--)	666	384		(-----k- ---
--)				(-----k- ---

-)	675	375			(-----k-- ---
	684	366			(-----k-- ---
-)	693	357			(-----k-- ---
-)	702	348			(-----k--- ---
)	711	339	+		(-----k---- ---
)	720	330		+	(-----k---- ---
	729	321			(-----k---- ---
	738	312			(-----k-- ---
--)	747	303			(-----k--- ---
----)	756	294			(-----k---- ---
)	765	285			(-----k- ---
---)	774	276			(----- k--
-----)	783	267			(-----k--- ---
-----)	792	258			(-----k--- ---
-----)	801	249	+		(-----k ---
-----)	810	240		+	(-----k--- ---
-----)	819	231			(----- k--
-----)	828	222			(-----k ---
-----)	837	213			(-----k- ---
-----)	846	204			(-----k--- ---
---)	855	195			(-----k---- ---
-)	864	186			(-----k-- ---
----)	873	177			(----- ---
k-----)	882	168			(----- k-
-----)	891	159	+		(--- ---
---k-----)	900	150		+	---
-----k-----)	909	141			(-- ---
-----k-----)					

