PDR1=[2.597478e+01 ;1.178074e+01;9.864114e+00 ;9.168142e+00;9.150974e+00 ];

PDR2=[4.373686e+01 ;1.773391e+01;1.535739e+01;1.515728e+01 ;1.549523e+01 ];

PDR3=[6.582365e+01; 6.044422e+01 ;5.931289e+01 ;5.917687e+01;5.978952e+01 ];

PDR4=[9.913461e+01 ; 9.911470e+01;9.911420e+01 ;9.911246e+01 ;9.911266e+01 ];

PDR5=[9.984129e+01;9.989988e+01;9.982859e+01 ;9.982921e+01;9.992658e+01 ];

Th=[6.180699e+02 ;4.019083e+01;4.805222e+00;4.054492e+02 ;3.589350e+02 ];

th1=[1.473492e+03 ;1.082111e+03 ;8.493867e+02;6.615682e+02 ;5.317395e+02 ];

th2=[4.997002e+03;6.258527e+02 ;8.036130e+02;6.699629e+02 ;4.584885e+02 ];

th3=[9.888263e+02 ;5.964879e+02 ;5.562106e+02;5.445555e+02 ;4.484184e+02 ];

th4=[5.707763e+03 ;1.893366e+03 ;1.395868e+03; 6.540736e+02 ;7.133991e+02 ];

R=[ 3.290400e-03;4.443700e-03;5.990300e-03 ;5.797600e-03 ;7.332400e-03 ];

r1=[5.234000e-04; 1.089600e-03 ;1.788400e-03 ;3.011500e-03 ;4.637900e-03 ];

r2=[5.179000e-04 ;1.381800e-03 ;1.837900e-03;4.380200e-03 ;6.387100e-03 ];

r3=[5.972000e-04;1.980200e-03 ;2.561300e-03;4.381900e-03 ;4.613100e-03 ];

r4=[4.653900e-03 ;5.119779e-03 ;6.662400e-03;7.454300e-03 ;8.572500e-03];

ee=[0.5817;0.5902;0.5963;0.6021;0.6130];

ee1=[ 0.5825;0.6013 ;0.6045 ; 0.6045 ;0.6144 ];

ee2=[ 0.5816;0.5908 ;0.5962;0.6018 ;0.6129 ];

ee3=[ 0.5816;0.5902 ;0.5959;0.6018 ;0.6124 ];

ee4=[ 0.5815;0.5898 ;0.5955 ;0.6012 ;0.6118 ];

sc1=[105 91 83 75 71];

s2=[100 80 70 60 55];

s3=[96 91 80 73 61];

s4=[89 80 71 62 50];

s5=[70 65 50 41 38];

sc2=[151 145 124 110 91];

c2=[131 120 100 80 63 ];

c3=[109 100 75 72 58];

c4=[78 70 70 61 54];

c5=[70 64 58 53 45];

sc3=[44 42 35 29 18];

sc4=[43 40 31 24 21];

sc5=[50 42 36 33 29];

sc6=[68 61 53 46 38];

sc7=[80 73 62 57 55];

a=[

0.18 0.16 0.11 0.10 0.07;

0.21 0.19 0.18 0.15 0.11;

0.28 0.25 0.18 0.13 0.1;

0.29 0.21 0.20 0.18 0.11;

0.38 0.35 0.33 0.25 0.2;

0.38 0.35 0.32 0.28 0.20;

0.42 0.38 0.30 0.28 0.22;

0.55 0.51 0.41 0.36 0.27];

p=[ 3 2 1 0.4 0;

5.5 3 1.9 0.9 0.2;

6 3.5 2.5 1.5 0;

7.6 6.2 5.1 4 1;

9.9 8.7 7.5 5.5 3;

17 14.5 13.5 10.5 5];

g=[10000 16000 20000 35000 38000;

15000 25000 30000 45000 48000;

22000 30000 35000 50000 52000;

28000 38000 48000 58000 68500;

34000 45000 54000 60000 75000;

38000 52000 61000 74000 79100;

48000 74000 75000 85000 89000;

50000 70000 85000 89000 93000;

75000 85000 95000 115000 150000;

70000 80000 150000 160000 180000;

75000 100000 116000 150000 190000;

80000 99000 161000 175000 235000;

83000 155000 188000 235000 245000;

85000 135000 162000 240000 280000;

107000 120000 137000 247000 353000;

108000 125000 142000 252000 355000;];

NL=[5542 4498 4689 5169 5500;

5261 4239 4505 4933 5200;

5217 3990 4254 4689 5000 ;

5107 3140 4048 4512 4900;

5024 3081 3723 4321 4700 ];