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sat_name=SkyTerra-1
long_nom=-95.000
n_diag=1

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beam_id=RU17
emi_rcp=R
polar_disc=C
reason=C
n_bore=1
n_cont=9

[B1]
gain=0.00
p=-82.039;28.810

[C1]
gain=-2
n_point=39
p1=-80.760;32.246
p2=-80.128;32.024
p3=-79.507;31.623
p4=-79.469;31.586
p5=-78.955;30.912
p6=-78.953;30.908
p7=-78.728;30.237
p8=-78.654;29.564
p9=-78.723;28.894
p10=-78.928;28.227
p11=-79.267;27.563
p12=-79.665;27.010
p13=-79.758;26.902
p14=-80.438;26.294
p15=-80.516;26.241
p16=-81.148;25.891
p17=-81.828;25.654
p18=-82.482;25.564
p19=-83.117;25.617
p20=-83.732;25.818
p21=-84.316;26.165
p22=-84.331;26.176
p23=-84.877;26.796
p24=-84.901;26.835
p25=-85.170;27.437
p26=-85.315;28.087
p27=-85.321;28.745
p28=-85.189;29.413
p29=-84.910;30.089
p30=-84.475;30.776
p31=-84.431;30.828
p32=-83.753;31.478
p33=-83.655;31.553

p34=-82.908;31.977
p35=-82.246;32.208
p36=-82.178;32.228
p37=-81.470;32.310
p38=-80.783;32.253
p39=-80.760;32.246

[C2]

gain=-4
n_point=55
p1=-80.485;33.672
p2=-79.826;33.523
p3=-79.169;33.249
p4=-78.790;33.009
p5=-78.546;32.828
p6=-78.060;32.327
p7=-77.971;32.208
p8=-77.644;31.642
p9=-77.483;31.224
p10=-77.402;30.960
p11=-77.299;30.280
p12=-77.301;29.604
p13=-77.400;28.932
p14=-77.592;28.265
p15=-77.875;27.601
p16=-78.253;26.940
p17=-78.375;26.770
p18=-78.759;26.283
p19=-79.198;25.828
p20=-79.423;25.629
p21=-79.945;25.233
p22=-80.372;24.975
p23=-80.652;24.824
p24=-81.330;24.555
p25=-81.990;24.392
p26=-82.632;24.327
p27=-83.261;24.360
p28=-83.878;24.493
p29=-84.483;24.731
p30=-84.760;24.892
p31=-85.076;25.105
p32=-85.521;25.510
p33=-85.654;25.660
p34=-85.993;26.138
p35=-86.206;26.549
p36=-86.305;26.774
p37=-86.491;27.417
p38=-86.577;28.067
p39=-86.569;28.726
p40=-86.464;29.391
p41=-86.260;30.066
p42=-85.947;30.750
p43=-85.742;31.085
p44=-85.495;31.444
p45=-84.946;32.074
p46=-84.867;32.150
p47=-84.174;32.713

p48=-83.924;32.872
p49=-83.415;33.159
p50=-82.668;33.463
p51=-82.000;33.630
p52=-81.932;33.646
p53=-81.212;33.714
p54=-80.508;33.676
p55=-80.485;33.672

[C3]

gain=-6
n_point=69
p1=-79.096;34.437
p2=-78.918;34.376
p3=-78.268;34.041
p4=-77.871;33.754
p5=-77.653;33.573
p6=-77.186;33.062
p7=-77.085;32.925
p8=-76.756;32.370
p9=-76.593;31.984
p10=-76.485;31.681
p11=-76.338;30.995
p12=-76.287;30.313
p13=-76.289;30.266
p14=-76.324;29.636
p15=-76.440;28.962
p16=-76.630;28.293
p17=-76.829;27.793
p18=-76.894;27.629
p19=-77.238;26.969
p20=-77.665;26.312
p21=-77.827;26.106
p22=-78.202;25.659
p23=-78.640;25.220
p24=-78.878;25.009
p25=-79.389;24.614
p26=-79.780;24.361
p27=-80.099;24.173
p28=-80.784;23.856
p29=-81.225;23.708
p30=-81.448;23.636
p31=-82.097;23.504
p32=-82.733;23.450
p33=-83.357;23.475
p34=-83.972;23.579
p35=-84.220;23.655
p36=-84.577;23.770
p37=-85.174;24.059
p38=-85.476;24.256
p39=-85.761;24.467
p40=-86.191;24.871
p41=-86.338;25.037
p42=-86.678;25.494
p43=-86.897;25.872
p44=-87.025;26.124
p45=-87.262;26.761

p46=-87.408;27.389
p47=-87.411;27.405
p48=-87.477;28.055
p49=-87.465;28.713
p50=-87.376;29.378
p51=-87.204;30.052
p52=-87.167;30.151
p53=-86.942;30.734
p54=-86.578;31.425
p55=-86.334;31.792
p56=-86.090;32.127
p57=-85.544;32.741
p58=-85.441;32.841
p59=-84.767;33.410
p60=-84.536;33.570
p61=-83.998;33.908
p62=-83.236;34.275
p63=-83.099;34.324
p64=-82.483;34.530
p65=-81.740;34.686
p66=-81.010;34.748
p67=-80.293;34.720
p68=-79.595;34.598
p69=-79.096;34.437

[C4]

gain=-8
n_point=77
p1=-78.549;35.188
p2=-78.044;34.967
p3=-77.405;34.570
p4=-77.315;34.498
p5=-76.805;34.037
p6=-76.597;33.799
p7=-76.255;33.325
p8=-76.121;33.100
p9=-75.806;32.404
p10=-75.783;32.331
p11=-75.612;31.712
p12=-75.514;31.024
p13=-75.504;30.584
p14=-75.498;30.340
p15=-75.556;29.661
p16=-75.682;28.987
p17=-75.874;28.317
p18=-76.131;27.652
p19=-76.204;27.503
p20=-76.453;26.991
p21=-76.847;26.335
p22=-77.208;25.836
p23=-77.325;25.683
p24=-77.903;25.034
p25=-78.035;24.904
p26=-78.620;24.388
p27=-78.795;24.250
p28=-79.515;23.762
p29=-79.548;23.743

p30=-80.207;23.395
p31=-80.879;23.123
p32=-80.973;23.095
p33=-81.535;22.931
p34=-82.177;22.814
p35=-82.808;22.766
p36=-83.429;22.786
p37=-84.041;22.877
p38=-84.610;23.033
p39=-84.646;23.043
p40=-85.243;23.288
p41=-85.833;23.627
p42=-85.839;23.631
p43=-86.416;24.084
p44=-86.580;24.241
p45=-86.989;24.700
p46=-87.112;24.859
p47=-87.505;25.484
p48=-87.548;25.572
p49=-87.793;26.115
p50=-87.995;26.752
p51=-88.066;27.109
p52=-88.122;27.396
p53=-88.180;28.047
p54=-88.168;28.704
p55=-88.088;29.369
p56=-87.935;30.042
p57=-87.801;30.441
p58=-87.704;30.723
p59=-87.388;31.413
p60=-86.976;32.106
p61=-86.972;32.113
p62=-86.432;32.823
p63=-86.186;33.096
p64=-85.729;33.546
p65=-85.404;33.829
p66=-84.784;34.286
p67=-84.628;34.391
p68=-83.856;34.822
p69=-83.326;35.049
p70=-83.090;35.146
p71=-82.330;35.377
p72=-81.579;35.519
p73=-80.840;35.578
p74=-80.113;35.556
p75=-79.402;35.450
p76=-78.711;35.256
p77=-78.549;35.188

[C5]

gain=-10
n_point=85
p1=-78.434;35.936
p2=-77.855;35.716
p3=-77.201;35.360
p4=-77.034;35.242
p5=-76.579;34.892

p6=-76.223;34.538
p7=-76.000;34.281
p8=-75.680;33.833
p9=-75.478;33.478
p10=-75.308;33.130
p11=-75.062;32.431
p12=-75.046;32.361
p13=-74.911;31.737
p14=-74.846;31.048
p15=-74.856;30.363
p16=-74.866;30.275
p17=-74.928;29.683
p18=-75.062;29.008
p19=-75.257;28.337
p20=-75.435;27.874
p21=-75.510;27.672
p22=-75.819;27.011
p23=-76.193;26.354
p24=-76.535;25.851
p25=-76.639;25.702
p26=-77.166;25.053
p27=-77.392;24.812
p28=-77.799;24.408
p29=-78.170;24.082
p30=-78.576;23.765
p31=-78.904;23.531
p32=-79.580;23.124
p33=-79.607;23.109
p34=-80.289;22.781
p35=-80.952;22.538
p36=-81.178;22.478
p37=-81.602;22.364
p38=-82.239;22.256
p39=-82.866;22.212
p40=-83.485;22.230
p41=-84.095;22.313
p42=-84.537;22.422
p43=-84.698;22.462
p44=-85.295;22.679
p45=-85.886;22.981
p46=-85.940;23.014
p47=-86.471;23.375
p48=-86.761;23.619
p49=-87.050;23.892
p50=-87.356;24.232
p51=-87.620;24.578
p52=-87.806;24.851
p53=-88.146;25.477
p54=-88.176;25.546
p55=-88.403;26.108
p56=-88.583;26.746
p57=-88.686;27.332
p58=-88.696;27.390
p59=-88.749;28.040
p60=-88.740;28.698
p61=-88.666;29.362
p62=-88.525;30.034

p63=-88.480;30.182
p64=-88.317;30.715
p65=-88.033;31.404
p66=-87.657;32.102
p67=-87.649;32.115
p68=-87.183;32.811
p69=-86.858;33.215
p70=-86.580;33.531
p71=-86.074;34.031
p72=-85.804;34.265
p73=-85.292;34.667
p74=-84.760;35.016
p75=-84.513;35.169
p76=-83.737;35.561
p77=-83.132;35.795
p78=-82.965;35.858
p79=-82.199;36.074
p80=-81.441;36.208
p81=-80.693;36.265
p82=-79.958;36.247
p83=-79.238;36.151
p84=-78.536;35.974
p85=-78.434;35.936

[C6]

gain=-15
n_point=97
p1=-78.902;37.439
p2=-78.195;37.302
p3=-77.490;37.086
p4=-76.810;36.781
p5=-76.760;36.752
p6=-76.155;36.401
p7=-75.692;36.039
p8=-75.536;35.907
p9=-74.985;35.321
p10=-74.958;35.289
p11=-74.489;34.606
p12=-74.434;34.507
p13=-74.134;33.894
p14=-73.987;33.482
p15=-73.888;33.186
p16=-73.730;32.483
p17=-73.675;32.002
p18=-73.648;31.785
p19=-73.624;31.093
p20=-73.666;30.406
p21=-73.765;29.724
p22=-73.916;29.047
p23=-74.115;28.376
p24=-74.363;27.709
p25=-74.661;27.047
p26=-75.017;26.390
p27=-75.095;26.264
p28=-75.418;25.737
p29=-75.886;25.088
p30=-76.047;24.893

p31=-76.424;24.444
p32=-76.877;23.974
p33=-77.053;23.803
p34=-77.647;23.283
p35=-77.797;23.165
p36=-78.378;22.740
p37=-78.713;22.529
p38=-79.081;22.306
p39=-79.762;21.965
p40=-79.937;21.893
p41=-80.427;21.691
p42=-81.078;21.484
p43=-81.717;21.340
p44=-82.346;21.251
p45=-82.491;21.242
p46=-82.968;21.211
p47=-83.537;21.226
p48=-83.581;21.227
p49=-84.188;21.292
p50=-84.789;21.413
p51=-85.384;21.596
p52=-85.853;21.797
p53=-85.974;21.849
p54=-86.561;22.165
p55=-86.893;22.392
p56=-87.143;22.571
p57=-87.631;22.995
p58=-87.720;23.080
p59=-88.197;23.604
p60=-88.292;23.725
p61=-88.646;24.219
p62=-88.858;24.581
p63=-89.001;24.839
p64=-89.279;25.465
p65=-89.407;25.848
p66=-89.491;26.097
p67=-89.648;26.735
p68=-89.745;27.379
p69=-89.788;28.030
p70=-89.780;28.687
p71=-89.719;29.351
p72=-89.603;30.023
p73=-89.428;30.702
p74=-89.184;31.390
p75=-89.022;31.748
p76=-88.871;32.087
p77=-88.482;32.793
p78=-88.230;33.173
p79=-87.998;33.509
p80=-87.444;34.188
p81=-87.400;34.238
p82=-86.658;34.979
p83=-86.658;34.979
p84=-85.870;35.621
p85=-85.704;35.737
p86=-85.081;36.148
p87=-84.394;36.516

p88=-84.294;36.568
p89=-83.506;36.914
p90=-82.723;37.173
p91=-82.020;37.340
p92=-81.945;37.358
p93=-81.172;37.484
p94=-80.409;37.539
p95=-79.657;37.526
p96=-78.919;37.443
p97=-78.902;37.439

[C7]

gain=-20
n_point=167
p1=-73.226;44.336
p2=-72.518;44.050
p3=-71.747;43.775
p4=-71.157;43.559
p5=-70.994;43.466
p6=-70.289;43.063
p7=-69.736;42.767
p8=-69.591;42.653
p9=-68.950;42.136
p10=-68.760;41.966
p11=-68.372;41.507
p12=-68.104;41.163
p13=-67.860;40.757
p14=-67.660;40.361
p15=-67.436;39.845
p16=-67.343;39.567
p17=-67.085;38.789
p18=-67.083;38.782
p19=-66.965;38.001
p20=-66.840;37.514
p21=-66.806;37.234
p22=-66.714;36.475
p23=-66.644;36.118
p24=-66.633;35.726
p25=-66.619;34.984
p26=-66.576;34.406
p27=-66.587;34.252
p28=-66.681;33.522
p29=-66.783;32.801
p30=-66.886;32.089
p31=-66.979;31.454
p32=-66.996;31.384
p33=-67.190;30.684
p34=-67.399;29.990
p35=-67.625;29.303
p36=-67.871;28.622
p37=-68.138;27.947
p38=-68.419;27.288
p39=-68.424;27.277
p40=-68.806;26.611
p41=-69.176;25.951
p42=-69.536;25.297
p43=-69.890;24.650

p44=-69.894;24.643
p45=-70.353;24.004
p46=-70.767;23.366
p47=-70.985;23.044
p48=-71.236;22.731
p49=-71.727;22.100
p50=-71.929;21.851
p51=-72.280;21.473
p52=-72.791;20.898
p53=-72.838;20.851
p54=-73.489;20.232
p55=-73.592;20.137
p56=-74.205;19.616
p57=-74.354;19.493
p58=-74.993;19.003
p59=-75.088;18.934
p60=-75.798;18.456
p61=-75.894;18.392
p62=-76.486;18.059
p63=-76.938;17.785
p64=-77.164;17.670
p65=-77.827;17.346
p66=-78.140;17.179
p67=-78.480;17.044
p68=-79.121;16.797
p69=-79.653;16.574
p70=-79.757;16.543
p71=-80.379;16.386
p72=-80.996;16.245
p73=-81.608;16.123
p74=-82.214;16.025
p75=-82.814;15.959
p76=-82.937;15.954
p77=-83.409;15.939
p78=-83.884;15.943
p79=-84.000;15.946
p80=-84.587;15.996
p81=-85.170;16.076
p82=-85.751;16.179
p83=-86.330;16.299
p84=-86.907;16.437
p85=-87.075;16.486
p86=-87.480;16.660
p87=-88.053;16.897
p88=-88.414;17.052
p89=-88.625;17.180
p90=-89.195;17.508
p91=-89.391;17.624
p92=-89.765;17.900
p93=-90.205;18.200
p94=-90.336;18.308
p95=-90.908;18.757
p96=-90.935;18.780
p97=-91.480;19.280
p98=-91.569;19.365
p99=-92.056;19.850
p100=-92.150;19.953

p101=-92.633;20.490
p102=-92.677;20.545
p103=-93.115;21.142
p104=-93.214;21.275
p105=-93.485;21.743
p106=-93.800;22.261
p107=-93.841;22.347
p108=-94.092;22.956
p109=-94.365;23.570
p110=-94.393;23.634
p111=-94.552;24.188
p112=-94.723;24.811
p113=-94.896;25.440
p114=-95.000;25.836
p115=-95.040;26.073
p116=-95.124;26.712
p117=-95.186;27.356
p118=-95.223;28.007
p119=-95.236;28.663
p120=-95.225;29.326
p121=-95.191;29.996
p122=-95.137;30.673
p123=-95.061;31.358
p124=-95.000;31.768
p125=-94.934;32.050
p126=-94.748;32.750
p127=-94.549;33.460
p128=-94.330;34.178
p129=-94.316;34.219
p130=-93.982;34.907
p131=-93.654;35.646
p132=-93.601;35.752
p133=-93.198;36.396
p134=-92.863;36.988
p135=-92.737;37.159
p136=-92.202;37.934
p137=-92.102;38.074
p138=-91.571;38.723
p139=-91.320;39.028
p140=-90.870;39.528
p141=-90.519;39.890
p142=-90.053;40.350
p143=-89.701;40.653
p144=-89.070;41.192
p145=-88.868;41.337
p146=-88.025;41.918
p147=-87.824;42.057
p148=-87.175;42.408
p149=-86.306;42.896
p150=-86.201;42.953
p151=-85.441;43.261
p152=-84.564;43.607
p153=-83.847;43.896
p154=-83.673;43.950
p155=-82.794;44.173
p156=-81.909;44.374
p157=-81.019;44.551

p158=-80.127;44.700
p159=-79.237;44.811
p160=-78.352;44.876
p161=-77.479;44.888
p162=-76.618;44.850
p163=-75.769;44.769
p164=-74.930;44.655
p165=-74.101;44.514
p166=-73.279;44.350
p167=-73.226;44.336

[C8]

gain=-20
n_point=145
p1=-77.755;42.359
p2=-77.496;42.351
p3=-76.682;42.291
p4=-75.881;42.182
p5=-75.105;42.001
p6=-74.382;41.682
p7=-74.346;41.661
p8=-73.630;41.440
p9=-72.937;41.056
p10=-72.750;40.903
p11=-72.260;40.641
p12=-71.704;40.133
p13=-71.644;40.089
p14=-71.035;39.532
p15=-70.897;39.366
p16=-70.476;38.868
p17=-70.282;38.602
p18=-69.974;38.081
p19=-69.824;37.841
p20=-69.547;37.123
p21=-69.526;37.084
p22=-69.236;36.338
p23=-69.185;36.017
p24=-69.036;35.597
p25=-68.951;34.860
p26=-68.946;34.598
p27=-68.833;34.135
p28=-68.804;33.414
p29=-68.865;32.734
p30=-68.858;32.698
p31=-68.816;31.995
p32=-68.898;31.294
p33=-69.041;30.598
p34=-69.223;29.908
p35=-69.433;29.223
p36=-69.666;28.545
p37=-69.923;27.873
p38=-70.210;27.206
p39=-70.546;26.543
p40=-70.987;25.883
p41=-71.006;25.859
p42=-71.338;25.232
p43=-71.777;24.584

p44=-72.105;24.220
p45=-72.292;23.940
p46=-72.813;23.301
p47=-73.036;23.081
p48=-73.375;22.666
p49=-73.890;22.164
p50=-74.009;22.035
p51=-74.675;21.408
p52=-74.692;21.392
p53=-75.349;20.786
p54=-75.464;20.687
p55=-76.111;20.168
p56=-76.201;20.094
p57=-76.913;19.591
p58=-76.979;19.552
p59=-77.608;19.131
p60=-78.018;18.939
p61=-78.279;18.781
p62=-78.937;18.490
p63=-79.491;18.323
p64=-79.578;18.283
p65=-80.218;18.050
p66=-80.844;17.902
p67=-81.461;17.799
p68=-82.073;17.729
p69=-82.568;17.691
p70=-82.680;17.676
p71=-83.283;17.638
p72=-83.880;17.649
p73=-84.102;17.672
p74=-84.474;17.688
p75=-85.065;17.743
p76=-85.652;17.832
p77=-86.236;17.971
p78=-86.814;18.200
p79=-86.863;18.225
p80=-87.394;18.388
p81=-87.971;18.662
p82=-88.184;18.798
p83=-88.546;18.972
p84=-89.107;19.379
p85=-89.119;19.386
p86=-89.694;19.793
p87=-89.878;19.964
p88=-90.267;20.318
p89=-90.490;20.555
p90=-90.840;20.960
p91=-90.997;21.150
p92=-91.407;21.750
p93=-91.412;21.758
p94=-91.831;22.353
p95=-91.988;22.661
p96=-92.181;22.961
p97=-92.468;23.574
p98=-92.566;23.849
p99=-92.745;24.192
p100=-92.967;24.814

p101=-93.110;25.442
p102=-93.144;25.634
p103=-93.283;26.075
p104=-93.411;26.714
p105=-93.487;27.358
p106=-93.527;28.008
p107=-93.536;28.665
p108=-93.514;29.328
p109=-93.457;29.998
p110=-93.356;30.675
p111=-93.193;31.361
p112=-93.009;31.870
p113=-92.969;32.054
p114=-92.780;32.755
p115=-92.512;33.466
p116=-92.272;33.929
p117=-92.176;34.186
p118=-91.853;34.916
p119=-91.516;35.453
p120=-91.409;35.658
p121=-90.938;36.411
p122=-90.743;36.658
p123=-90.361;37.177
p124=-89.958;37.614
p125=-89.628;37.958
p126=-89.163;38.391
p127=-88.715;38.755
p128=-88.359;39.045
p129=-87.552;39.566
p130=-87.540;39.574
p131=-86.723;40.130
p132=-86.136;40.415
p133=-85.893;40.569
p134=-85.050;41.001
p135=-84.232;41.290
p136=-84.215;41.299
p137=-83.349;41.690
p138=-82.498;41.942
p139=-81.654;42.117
p140=-80.815;42.238
p141=-80.762;42.244
p142=-79.962;42.378
p143=-79.125;42.437
p144=-78.303;42.423
p145=-77.755;42.359

[C9]

gain=-20
n_point=105
p1=-78.390;38.235
p2=-77.961;38.162
p3=-77.240;37.971
p4=-76.543;37.699
p5=-76.237;37.540
p6=-75.870;37.353
p7=-75.229;36.913
p8=-75.117;36.819

p9=-74.623;36.374
p10=-74.372;36.093
p11=-74.064;35.701
p12=-73.843;35.369
p13=-73.564;34.857
p14=-73.461;34.649
p15=-73.189;33.933
p16=-73.145;33.770
p17=-72.994;33.223
p18=-72.884;32.518
p19=-72.866;32.227
p20=-72.830;31.818
p21=-72.832;31.124
p22=-72.894;30.436
p23=-73.008;29.753
p24=-73.168;29.075
p25=-73.372;28.402
p26=-73.619;27.735
p27=-73.912;27.072
p28=-74.257;26.414
p29=-74.443;26.108
p30=-74.645;25.761
p31=-75.084;25.112
p32=-75.415;24.690
p33=-75.589;24.467
p34=-76.162;23.826
p35=-76.260;23.727
p36=-76.818;23.189
p37=-77.042;22.993
p38=-77.591;22.555
p39=-77.783;22.411
p40=-78.493;21.944
p41=-78.530;21.923
p42=-79.183;21.555
p43=-79.769;21.291
p44=-79.853;21.253
p45=-80.510;21.001
p46=-81.154;20.816
p47=-81.788;20.687
p48=-82.083;20.648
p49=-82.413;20.601
p50=-83.030;20.563
p51=-83.640;20.577
p52=-84.018;20.619
p53=-84.244;20.641
p54=-84.843;20.748
p55=-85.438;20.911
p56=-86.027;21.142
p57=-86.128;21.191
p58=-86.613;21.422
p59=-87.187;21.782
p60=-87.195;21.787
p61=-87.774;22.221
p62=-87.953;22.381
p63=-88.350;22.764
p64=-88.553;22.985
p65=-88.921;23.446

p66=-89.033;23.596
p67=-89.421;24.211
p68=-89.487;24.339
p69=-89.742;24.833
p70=-89.986;25.459
p71=-90.041;25.641
p72=-90.184;26.092
p73=-90.326;26.730
p74=-90.415;27.374
p75=-90.455;28.024
p76=-90.448;28.681
p77=-90.395;29.345
p78=-90.292;30.016
p79=-90.135;30.695
p80=-89.916;31.382
p81=-89.675;31.961
p82=-89.628;32.078
p83=-89.287;32.783
p84=-88.889;33.436
p85=-88.851;33.498
p86=-88.337;34.224
p87=-88.106;34.503
p88=-87.702;34.962
p89=-87.319;35.348
p90=-86.916;35.714
p91=-86.529;36.038
p92=-85.914;36.483
p93=-85.736;36.606
p94=-84.941;37.081
p95=-84.545;37.274
p96=-84.144;37.472
p97=-83.349;37.788
p98=-82.557;38.025
p99=-82.166;38.111
p100=-81.769;38.205
p101=-80.985;38.324
p102=-80.211;38.379
p103=-79.447;38.369
p104=-78.697;38.294
p105=-78.390;38.235