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sat_name=SKYTERRA-1
long_nom=-95.000
n_diag=1

[COHeader]
beam_id=RU16
emi_rcp=R
polar_disc=C
reason=C
n_bore=1
n_cont=7

[B1]
gain=0.00
p=-86.241;39.643

[C1]
gain=-2.00
n_point=35
p1=-84.500;41.124
p2=-84.400;41.000
p3=-84.156;40.500
p4=-84.071;40.000
p5=-84.081;39.500
p6=-84.182;39.000
p7=-84.419;38.500
p8=-84.500;38.381
p9=-84.853;38.000
p10=-85.000;37.871
p11=-85.500;37.550
p12=-85.631;37.500
p13=-86.000;37.394
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p16=-87.000;37.512
p17=-87.500;37.876
p18=-87.612;38.000
p19=-87.929;38.500
p20=-88.000;38.687
p21=-88.089;39.000
p22=-88.115;39.500
p23=-88.039;40.000
p24=-88.000;40.130
p25=-87.852;40.500
p26=-87.530;41.000
p27=-87.500;41.031
p28=-87.000;41.420
p29=-86.851;41.500
p30=-86.500;41.664
p31=-86.000;41.760
p32=-85.500;41.710
p33=-85.000;41.530

p34=-84.953;41.500
p35=-84.500;41.124

[C2]

gain=-4.00
n_point=47
p1=-83.500;41.399
p2=-83.321;41.000
p3=-83.184;40.500
p4=-83.151;40.000
p5=-83.183;39.500
p6=-83.282;39.000
p7=-83.473;38.500
p8=-83.500;38.446
p9=-83.752;38.000
p10=-84.000;37.650
p11=-84.133;37.500
p12=-84.500;37.174
p13=-84.747;37.000
p14=-85.000;36.855
p15=-85.500;36.649
p16=-86.000;36.539
p17=-86.500;36.538
p18=-87.000;36.637
p19=-87.500;36.838
p20=-87.765;37.000
p21=-88.000;37.182
p22=-88.304;37.500
p23=-88.500;37.794
p24=-88.608;38.000
p25=-88.794;38.500
p26=-88.908;39.000
p27=-88.931;39.500
p28=-88.865;40.000
p29=-88.739;40.500
p30=-88.551;41.000
p31=-88.500;41.091
p32=-88.215;41.500
p33=-88.000;41.756
p34=-87.729;42.000
p35=-87.500;42.182
p36=-87.000;42.493
p37=-86.983;42.500
p38=-86.500;42.664
p39=-86.000;42.733
p40=-85.500;42.728
p41=-85.000;42.644
p42=-84.616;42.500
p43=-84.500;42.446
p44=-84.000;42.071
p45=-83.929;42.000
p46=-83.557;41.500
p47=-83.500;41.399

[C3]

gain=-6.00
n_point=63

p1=-82.500;40.670
p2=-82.472;40.500
p3=-82.462;40.000
p4=-82.494;39.500
p5=-82.500;39.462
p6=-82.580;39.000
p7=-82.758;38.500
p8=-82.987;38.000
p9=-83.000;37.976
p10=-83.294;37.500
p11=-83.500;37.224
p12=-83.702;37.000
p13=-84.000;36.741
p14=-84.333;36.500
p15=-84.500;36.394
p16=-85.000;36.146
p17=-85.417;36.000
p18=-85.500;35.975
p19=-86.000;35.908
p20=-86.500;35.910
p21=-87.000;35.984
p22=-87.054;36.000
p23=-87.500;36.155
p24=-88.000;36.416
p25=-88.119;36.500
p26=-88.500;36.818
p27=-88.666;37.000
p28=-89.000;37.433
p29=-89.041;37.500
p30=-89.253;38.000
p31=-89.416;38.500
p32=-89.500;38.884
p33=-89.521;39.000
p34=-89.542;39.500
p35=-89.500;40.000
p36=-89.500;40.001
p37=-89.398;40.500
p38=-89.241;41.000
p39=-89.003;41.500
p40=-89.000;41.505
p41=-88.674;42.000
p42=-88.500;42.228
p43=-88.230;42.500
p44=-88.000;42.685
p45=-87.524;43.000
p46=-87.500;43.015
p47=-87.000;43.258
p48=-86.500;43.406
p49=-86.000;43.487
p50=-85.631;43.500
p51=-85.500;43.504
p52=-85.463;43.500
p53=-85.000;43.440
p54=-84.500;43.277
p55=-84.000;43.029
p56=-83.955;43.000
p57=-83.500;42.652

p58=-83.345;42.500
p59=-83.000;42.062
p60=-82.960;42.000
p61=-82.730;41.500
p62=-82.564;41.000
p63=-82.500;40.670

[C4]

gain=-8.00
n_point=71
p1=-82.000;41.261
p2=-81.940;41.000
p3=-81.875;40.500
p4=-81.881;40.000
p5=-81.922;39.500
p6=-81.999;39.000
p7=-82.000;38.994
p8=-82.148;38.500
p9=-82.355;38.000
p10=-82.500;37.714
p11=-82.619;37.500
p12=-82.950;37.000
p13=-83.000;36.939
p14=-83.416;36.500
p15=-83.500;36.424
p16=-84.000;36.043
p17=-84.069;36.000
p18=-84.500;35.761
p19=-85.000;35.550
p20=-85.184;35.500
p21=-85.500;35.428
p22=-86.000;35.377
p23=-86.500;35.387
p24=-87.000;35.458
p25=-87.160;35.500
p26=-87.500;35.606
p27=-88.000;35.838
p28=-88.254;36.000
p29=-88.500;36.177
p30=-88.846;36.500
p31=-89.000;36.667
p32=-89.253;37.000
p33=-89.500;37.390
p34=-89.559;37.500
p35=-89.748;38.000
p36=-89.894;38.500
p37=-89.993;39.000
p38=-90.000;39.090
p39=-90.028;39.500
p40=-90.008;40.000
p41=-90.000;40.068
p42=-89.939;40.500
p43=-89.812;41.000
p44=-89.611;41.500
p45=-89.500;41.729
p46=-89.348;42.000
p47=-89.024;42.500

p48=-89.000;42.529
p49=-88.542;43.000
p50=-88.500;43.039
p51=-88.000;43.411
p52=-87.857;43.500
p53=-87.500;43.702
p54=-87.000;43.918
p55=-86.695;44.000
p56=-86.500;44.047
p57=-86.000;44.119
p58=-85.500;44.140
p59=-85.000;44.086
p60=-84.610;44.000
p61=-84.500;43.971
p62=-84.000;43.779
p63=-83.500;43.514
p64=-83.481;43.500
p65=-83.000;43.084
p66=-82.922;43.000
p67=-82.523;42.500
p68=-82.500;42.465
p69=-82.248;42.000
p70=-82.065;41.500
p71=-82.000;41.261

[C5]

gain=-10.00
n_point=77
p1=-81.500;41.441
p2=-81.412;41.000
p3=-81.350;40.500
p4=-81.360;40.000
p5=-81.404;39.500
p6=-81.481;39.000
p7=-81.500;38.924
p8=-81.615;38.500
p9=-81.796;38.000
p10=-82.000;37.552
p11=-82.026;37.500
p12=-82.323;37.000
p13=-82.500;36.755
p14=-82.707;36.500
p15=-83.000;36.186
p16=-83.207;36.000
p17=-83.500;35.767
p18=-83.901;35.500
p19=-84.000;35.442
p20=-84.500;35.205
p21=-85.000;35.037
p22=-85.189;35.000
p23=-85.500;34.947
p24=-86.000;34.916
p25=-86.500;34.937
p26=-86.927;35.000
p27=-87.000;35.012
p28=-87.500;35.158
p29=-88.000;35.365

p30=-88.242;35.500
p31=-88.500;35.670
p32=-88.902;36.000
p33=-89.000;36.092
p34=-89.362;36.500
p35=-89.500;36.678
p36=-89.710;37.000
p37=-89.990;37.500
p38=-90.000;37.526
p39=-90.161;38.000
p40=-90.296;38.500
p41=-90.394;39.000
p42=-90.440;39.500
p43=-90.431;40.000
p44=-90.384;40.500
p45=-90.294;41.000
p46=-90.134;41.500
p47=-90.000;41.832
p48=-89.920;42.000
p49=-89.643;42.500
p50=-89.500;42.701
p51=-89.257;43.000
p52=-89.000;43.287
p53=-88.768;43.500
p54=-88.500;43.718
p55=-88.086;44.000
p56=-88.000;44.051
p57=-87.500;44.299
p58=-87.000;44.478
p59=-86.913;44.500
p60=-86.500;44.597
p61=-86.000;44.674
p62=-85.500;44.691
p63=-85.000;44.647
p64=-84.500;44.554
p65=-84.311;44.500
p66=-84.000;44.403
p67=-83.500;44.167
p68=-83.229;44.000
p69=-83.000;43.836
p70=-82.612;43.500
p71=-82.500;43.378
p72=-82.207;43.000
p73=-82.000;42.689
p74=-81.892;42.500
p75=-81.664;42.000
p76=-81.513;41.500
p77=-81.500;41.441

[C6]

gain=-15.00
n_point=93
p1=-80.500;42.135
p2=-80.457;42.000
p3=-80.361;41.500
p4=-80.292;41.000
p5=-80.253;40.500

p6=-80.263;40.000
p7=-80.298;39.500
p8=-80.359;39.000
p9=-80.466;38.500
p10=-80.500;38.382
p11=-80.620;38.000
p12=-80.802;37.500
p13=-81.000;37.017
p14=-81.008;37.000
p15=-81.303;36.500
p16=-81.500;36.200
p17=-81.645;36.000
p18=-82.000;35.551
p19=-82.046;35.500
p20=-82.500;35.057
p21=-82.569;35.000
p22=-83.000;34.684
p23=-83.302;34.500
p24=-83.500;34.389
p25=-84.000;34.166
p26=-84.500;34.016
p27=-84.587;34.000
p28=-85.000;33.931
p29=-85.500;33.900
p30=-86.000;33.919
p31=-86.500;33.985
p32=-86.563;34.000
p33=-87.000;34.099
p34=-87.500;34.261
p35=-88.000;34.470
p36=-88.056;34.500
p37=-88.500;34.747
p38=-88.892;35.000
p39=-89.000;35.079
p40=-89.499;35.500
p41=-89.500;35.501
p42=-89.927;36.000
p43=-90.000;36.093
p44=-90.274;36.500
p45=-90.500;36.867
p46=-90.572;37.000
p47=-90.808;37.500
p48=-90.991;38.000
p49=-91.000;38.031
p50=-91.127;38.500
p51=-91.238;39.000
p52=-91.313;39.500
p53=-91.343;40.000
p54=-91.342;40.500
p55=-91.308;41.000
p56=-91.215;41.500
p57=-91.084;42.000
p58=-91.000;42.251
p59=-90.909;42.500
p60=-90.654;43.000
p61=-90.500;43.256
p62=-90.333;43.500

p63=-90.000;43.926
p64=-89.935;44.000
p65=-89.500;44.416
p66=-89.399;44.500
p67=-89.000;44.805
p68=-88.694;45.000
p69=-88.500;45.111
p70=-88.000;45.360
p71=-87.647;45.500
p72=-87.500;45.552
p73=-87.000;45.685
p74=-86.500;45.786
p75=-86.000;45.844
p76=-85.500;45.854
p77=-85.000;45.830
p78=-84.500;45.765
p79=-84.000;45.644
p80=-83.557;45.500
p81=-83.500;45.480
p82=-83.000;45.260
p83=-82.517;45.000
p84=-82.500;44.989
p85=-82.000;44.569
p86=-81.929;44.500
p87=-81.500;44.042
p88=-81.465;44.000
p89=-81.102;43.500
p90=-81.000;43.317
p91=-80.844;43.000
p92=-80.629;42.500
p93=-80.500;42.135

[C7]

gain=-20.00
n_point=109
p1=-79.500;41.957
p2=-79.433;41.500
p3=-79.379;41.000
p4=-79.343;40.500
p5=-79.354;40.000
p6=-79.396;39.500
p7=-79.456;39.000
p8=-79.500;38.726
p9=-79.542;38.500
p10=-79.673;38.000
p11=-79.840;37.500
p12=-80.000;37.057
p13=-80.023;37.000
p14=-80.255;36.500
p15=-80.500;36.033
p16=-80.520;36.000
p17=-80.856;35.500
p18=-81.000;35.296
p19=-81.231;35.000
p20=-81.500;34.687
p21=-81.687;34.500
p22=-82.000;34.223

p23=-82.282;34.000
p24=-82.500;33.840
p25=-83.000;33.519
p26=-83.037;33.500
p27=-83.500;33.278
p28=-84.000;33.098
p29=-84.400;33.000
p30=-84.500;32.978
p31=-85.000;32.921
p32=-85.500;32.921
p33=-86.000;32.982
p34=-86.073;33.000
p35=-86.500;33.101
p36=-87.000;33.274
p37=-87.500;33.495
p38=-87.509;33.500
p39=-88.000;33.753
p40=-88.415;34.000
p41=-88.500;34.049
p42=-89.000;34.391
p43=-89.138;34.500
p44=-89.500;34.792
p45=-89.731;35.000
p46=-90.000;35.265
p47=-90.212;35.500
p48=-90.500;35.868
p49=-90.591;36.000
p50=-90.917;36.500
p51=-91.000;36.641
p52=-91.193;37.000
p53=-91.449;37.500
p54=-91.500;37.633
p55=-91.637;38.000
p56=-91.807;38.500
p57=-91.959;39.000
p58=-92.000;39.180
p59=-92.084;39.500
p60=-92.164;40.000
p61=-92.214;40.500
p62=-92.233;41.000
p63=-92.191;41.500
p64=-92.112;42.000
p65=-92.000;42.483
p66=-91.996;42.500
p67=-91.805;43.000
p68=-91.568;43.500
p69=-91.500;43.624
p70=-91.277;44.000
p71=-91.000;44.368
p72=-90.889;44.500
p73=-90.500;44.914
p74=-90.411;45.000
p75=-90.000;45.352
p76=-89.810;45.500
p77=-89.500;45.709
p78=-89.000;45.993
p79=-88.985;46.000

p80=-88.500;46.233
p81=-88.000;46.440
p82=-87.808;46.500
p83=-87.500;46.579
p84=-87.000;46.683
p85=-86.500;46.760
p86=-86.000;46.794
p87=-85.500;46.804
p88=-85.000;46.785
p89=-84.500;46.723
p90=-84.000;46.632
p91=-83.500;46.513
p92=-83.460;46.500
p93=-83.000;46.325
p94=-82.500;46.090
p95=-82.333;46.000
p96=-82.000;45.796
p97=-81.585;45.500
p98=-81.500;45.434
p99=-81.010;45.000
p100=-81.000;44.989
p101=-80.611;44.500
p102=-80.500;44.346
p103=-80.283;44.000
p104=-80.000;43.514
p105=-79.993;43.500
p106=-79.805;43.000
p107=-79.642;42.500
p108=-79.507;42.000
p109=-79.500;41.957