

```
[FormatInfo]
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adm=USA
sat_name=USABSS-21
long_nom=-101.0000
n_diag=1
[COHeader]
beam_id=CB17
emi_rcp=E
polar_disc=X
reason=B
n_bore=1
n_cont=6
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gain=0.00
p=-90.0140;38.5690
[C1]
gain=-30.00
n_point=197
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P2=-82.4740 ;44.5000
P3=-82.3470 ;44.0000
P4=-82.2620 ;43.5000
P5=-82.1860 ;43.0000
P6=-82.1390 ;42.5000
P7=-82.1430 ;42.0000
P8=-82.1410 ;41.5000
P9=-82.2330 ;41.0000
P10=-82.3110 ;40.5000
P11=-82.4040 ;40.0000
P12=-82.5000 ;39.5790
P13=-82.5320 ;39.5000
P14=-82.7200 ;39.0000
P15=-82.8970 ;38.5000
P16=-83.0000 ;38.2090
P17=-83.1180 ;38.0000
P18=-83.3800 ;37.5000
P19=-83.5000 ;37.2280
P20=-83.6580 ;37.0000
P21=-83.9570 ;36.5000
P22=-84.0000 ;36.4270
P23=-84.3630 ;36.0000
P24=-84.5000 ;35.8120
P25=-84.8430 ;35.5000
P26=-85.0000 ;35.3390
P27=-85.5000 ;35.2440
P28=-85.5150 ;35.5000
P29=-85.5000 ;35.5770
P30=-85.3260 ;36.0000
P31=-85.1720 ;36.5000
P32=-85.0800 ;37.0000
P33=-85.0000 ;37.1570
P34=-84.8200 ;37.5000
P35=-84.6670 ;38.0000
P36=-84.6110 ;38.5000
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P37=-84.5450 ;39.0000
P38=-84.5000 ;39.1340
P39=-84.3930 ;39.5000
P40=-84.4000 ;40.0000
P41=-84.4000 ;40.5000
P42=-84.4680 ;41.0000
P43=-84.5000 ;41.0800
P44=-84.8800 ;41.5000
P45=-85.0000 ;41.6340
P46=-85.0380 ;41.5000
P47=-85.0330 ;41.0000
P48=-85.1310 ;40.5000
P49=-85.2040 ;40.0000
P50=-85.1460 ;39.5000
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P52=-85.3370 ;38.5000
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P55=-85.6230 ;37.5000
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P58=-86.1650 ;36.5000
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P61=-86.8110 ;35.5000
P62=-87.0000 ;35.2270
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P65=-87.6820 ;34.5000
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P67=-88.2680 ;34.0000
P68=-88.5000 ;33.7900
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P70=-89.0600 ;33.5000
P71=-89.5000 ;33.0790
P72=-89.7280 ;33.0000
P73=-89.5000 ;32.8950
P74=-89.0000 ;32.6880
P75=-88.6620 ;32.5000
P76=-88.8630 ;32.0000
P77=-89.0000 ;31.8870
P78=-89.3960 ;31.5000
P79=-89.5000 ;31.4340
P80=-90.0000 ;31.0970
P81=-90.1480 ;31.0000
P82=-90.5000 ;30.8440
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P88=-92.5000 ;30.5020
P89=-93.0000 ;30.6270
P90=-93.5000 ;30.8070
P91=-93.9580 ;31.0000
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P93=-94.5000 ;31.3620

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P98=-95.6280 ;32.5000
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P100=-96.0000 ;33.0620
P101=-96.1840 ;33.5000
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P103=-96.5000 ;34.4780
P104=-96.5050 ;34.5000
P105=-96.5270 ;35.0000
P106=-96.5000 ;35.2700
P107=-96.0000 ;35.4850
P108=-95.5040 ;35.0000
P109=-95.5000 ;34.9980
P110=-95.0000 ;34.5990
P111=-94.8760 ;34.5000
P112=-94.5000 ;34.2150
P113=-94.0000 ;34.0130
P114=-93.7870 ;34.5000
P115=-94.0000 ;34.7170
P116=-94.1370 ;35.0000
P117=-94.5000 ;35.3830
P118=-94.7220 ;35.5000
P119=-95.0000 ;35.8600
P120=-95.1890 ;36.0000
P121=-95.4920 ;36.5000
P122=-95.5000 ;36.5160
P123=-95.9540 ;37.0000
P124=-96.0000 ;37.1120
P125=-96.3360 ;37.5000
P126=-96.4820 ;38.0000
P127=-96.5000 ;38.1040
P128=-96.5900 ;38.5000
P129=-96.6250 ;39.0000
P130=-96.5960 ;39.5000
P131=-96.5170 ;40.0000
P132=-96.5000 ;40.0660
P133=-96.3940 ;40.5000
P134=-96.2150 ;41.0000
P135=-96.0000 ;41.4500
P136=-95.9770 ;41.5000
P137=-95.6740 ;42.0000
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P140=-95.0000 ;42.8470
P141=-94.8500 ;43.0000
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P143=-94.2780 ;43.5000
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P145=-93.5140 ;44.0000
P146=-93.5000 ;44.0100
P147=-93.0000 ;44.2760
P148=-92.5000 ;44.3920
P149=-92.0000 ;44.3860
P150=-91.5000 ;44.3460

P151=-91.0000 ;44.3100
P152=-90.5000 ;44.2900
P153=-90.0000 ;44.3000
P154=-89.5000 ;44.3410
P155=-89.0000 ;44.4050
P156=-88.5110 ;44.5000
P157=-89.0000 ;44.7840
P158=-89.2520 ;45.0000
P159=-89.5000 ;45.0890
P160=-90.0000 ;45.1760
P161=-90.5000 ;45.1750
P162=-91.0000 ;45.1310
P163=-91.5000 ;45.0770
P164=-92.0000 ;45.1300
P165=-92.1860 ;45.5000
P166=-92.0000 ;45.9990
P167=-92.0000 ;46.0000
P168=-91.6210 ;46.5000
P169=-91.5000 ;46.6130
P170=-91.0850 ;47.0000
P171=-91.0000 ;47.0600
P172=-90.5000 ;47.3850
P173=-90.3160 ;47.5000
P174=-90.0000 ;47.6450
P175=-89.5000 ;47.8480
P176=-89.0900 ;48.0000
P177=-89.0000 ;48.0240
P178=-88.5000 ;48.1210
P179=-88.0000 ;48.1910
P180=-87.5000 ;48.2320
P181=-87.0000 ;48.2400
P182=-86.5000 ;48.2130
P183=-86.0000 ;48.1410
P184=-85.5000 ;48.0250
P185=-85.4220 ;48.0000
P186=-85.0000 ;47.7930
P187=-84.5000 ;47.5170
P188=-84.4760 ;47.5000
P189=-84.0000 ;47.1070
P190=-83.8870 ;47.0000
P191=-83.5000 ;46.5430
P192=-83.4690 ;46.5000
P193=-83.1280 ;46.0000
P194=-83.0000 ;45.7710
P195=-82.8840 ;45.5000
P196=-82.6480 ;45.0000
P197=-82.5000 ;44.6000

[C2]

gain=-20.00

n_point=117

P1=-86.0000 ;42.0710
P2=-85.9660 ;42.0000
P3=-85.8885 ;41.7500
P4=-85.8110 ;41.5000
P5=-85.7480 ;41.2500
P6=-85.6850 ;41.0000
P7=-85.6645 ;40.7500

P8=-85.6440 ;40.5000
P9=-85.6375 ;40.2500
P10=-85.6310 ;40.0000
P11=-85.6400 ;39.7500
P12=-85.6490 ;39.5000
P13=-85.7015 ;39.2500
P14=-85.7540 ;39.0000
P15=-85.8075 ;38.7500
P16=-85.8610 ;38.5000
P17=-85.9170 ;38.2500
P18=-85.9730 ;38.0000
P19=-86.0000 ;37.8930
P20=-86.0780 ;37.6965
P21=-86.1560 ;37.5000
P22=-86.2730 ;37.2500
P23=-86.3900 ;37.0000
P24=-86.5000 ;36.7560
P25=-86.6610 ;36.5000
P26=-86.8150 ;36.2500
P27=-86.9690 ;36.0000
P28=-87.0000 ;35.9500
P29=-87.1835 ;35.7250
P30=-87.3670 ;35.5000
P31=-87.5000 ;35.3420
P32=-87.6695 ;35.1710
P33=-87.8390 ;35.0000
P34=-88.0000 ;34.8570
P35=-88.2255 ;34.6785
P36=-88.4510 ;34.5000
P37=-88.5000 ;34.4670
P38=-88.7500 ;34.3335
P39=-89.0000 ;34.2000
P40=-89.2195 ;34.1000
P41=-89.4390 ;34.0000
P42=-89.5000 ;33.9780
P43=-89.7500 ;33.9150
P44=-90.0000 ;33.8520
P45=-90.2500 ;33.8200
P46=-90.5000 ;33.7880
P47=-90.7500 ;33.7870
P48=-91.0000 ;33.7860
P49=-91.2500 ;33.8155
P50=-91.5000 ;33.8450
P51=-91.7500 ;33.9100
P52=-92.0000 ;33.9750
P53=-92.0560 ;34.0000
P54=-92.2780 ;34.1010
P55=-92.5000 ;34.2020
P56=-92.7500 ;34.3430
P57=-93.0000 ;34.4840
P58=-93.0200 ;34.5000
P59=-93.2600 ;34.7010
P60=-93.5000 ;34.9020
P61=-93.5950 ;35.0000
P62=-93.7975 ;35.2240
P63=-94.0000 ;35.4480
P64=-94.0450 ;35.5000

P65=-94.2235 ;35.7500
P66=-94.4020 ;36.0000
P67=-94.5000 ;36.1710
P68=-94.6650 ;36.5000
P69=-94.7655 ;36.7500
P70=-94.8660 ;37.0000
P71=-94.9330 ;37.2200
P72=-95.0000 ;37.4400
P73=-95.0180 ;37.5000
P74=-95.0615 ;37.7500
P75=-95.1050 ;38.0000
P76=-95.1220 ;38.2500
P77=-95.1390 ;38.5000
P78=-95.1295 ;38.7500
P79=-95.1200 ;39.0000
P80=-95.0860 ;39.2500
P81=-95.0520 ;39.5000
P82=-95.0000 ;39.7240
P83=-94.9310 ;40.0000
P84=-94.8435 ;40.2500
P85=-94.7560 ;40.5000
P86=-94.6375 ;40.7500
P87=-94.5190 ;41.0000
P88=-94.5000 ;41.0320
P89=-94.3520 ;41.2660
P90=-94.2040 ;41.5000
P91=-94.0000 ;41.7600
P92=-93.7920 ;42.0000
P93=-93.5000 ;42.2820
P94=-93.2460 ;42.5000
P95=-93.0000 ;42.6770
P96=-92.7500 ;42.8325
P97=-92.5000 ;42.9880
P98=-92.4770 ;43.0000
P99=-92.0000 ;43.2100
P100=-91.5000 ;43.3900
P101=-91.1360 ;43.5000
P102=-91.0000 ;43.5280
P103=-90.5000 ;43.6040
P104=-90.0000 ;43.6540
P105=-89.5000 ;43.6830
P106=-89.0000 ;43.6890
P107=-88.5000 ;43.6610
P108=-88.0000 ;43.5880
P109=-87.6810 ;43.5000
P110=-87.5000 ;43.4360
P111=-87.2500 ;43.3115
P112=-87.0000 ;43.1870
P113=-86.7400 ;43.0000
P114=-86.5000 ;42.7770
P115=-86.2750 ;42.5000
P116=-86.1375 ;42.2855
P117=-86.0000 ;42.0710
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gain=-10.00
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P5=-86.7030 ;40.2500
P6=-86.6630 ;40.0000
P7=-86.6600 ;39.7500
P8=-86.6570 ;39.5000
P9=-86.6830 ;39.2500
P10=-86.7090 ;39.0000
P11=-86.7595 ;38.7500
P12=-86.8100 ;38.5000
P13=-86.8810 ;38.2500
P14=-86.9520 ;38.0000
P15=-87.0000 ;37.8710
P16=-87.0840 ;37.6855
P17=-87.1680 ;37.5000
P18=-87.2965 ;37.2500
P19=-87.4250 ;37.0000
P20=-87.5000 ;36.8760
P21=-87.6355 ;36.6880
P22=-87.7710 ;36.5000
P23=-87.8855 ;36.3560
P24=-88.0000 ;36.2120
P25=-88.2000 ;36.0000
P26=-88.3500 ;35.8590
P27=-88.5000 ;35.7180
P28=-88.7760 ;35.5000
P29=-89.0000 ;35.3470
P30=-89.2500 ;35.2100
P31=-89.5000 ;35.0730
P32=-89.6990 ;35.0000
P33=-90.0000 ;34.9130
P34=-90.2500 ;34.8745
P35=-90.5000 ;34.8360
P36=-90.7500 ;34.8355
P37=-91.0000 ;34.8350
P38=-91.2500 ;34.8780
P39=-91.5000 ;34.9210
P40=-91.7490 ;35.0000
P41=-92.0000 ;35.1040
P42=-92.2500 ;35.2600
P43=-92.5000 ;35.4160
P44=-92.6070 ;35.5000
P45=-92.8035 ;35.6900
P46=-93.0000 ;35.8800
P47=-93.0990 ;36.0000
P48=-93.2590 ;36.2500
P49=-93.4190 ;36.5000
P50=-93.5000 ;36.6740
P51=-93.5635 ;36.8370
P52=-93.6270 ;37.0000
P53=-93.6920 ;37.2500
P54=-93.7570 ;37.5000
P55=-93.7890 ;37.7500
P56=-93.8210 ;38.0000
P57=-93.8200 ;38.2500
P58=-93.8190 ;38.5000

P59=-93.7840 ;38.7500
P60=-93.7490 ;39.0000
P61=-93.6855 ;39.2500
P62=-93.6220 ;39.5000
P63=-93.5610 ;39.6665
P64=-93.5000 ;39.8330
P65=-93.4280 ;40.0000
P66=-93.2890 ;40.2500
P67=-93.1500 ;40.5000
P68=-93.0000 ;40.7210
P69=-92.8895 ;40.8605
P70=-92.7790 ;41.0000
P71=-92.6395 ;41.1490
P72=-92.5000 ;41.2980
P73=-92.2790 ;41.5000
P74=-92.0000 ;41.7150
P75=-91.7830 ;41.8575
P76=-91.5660 ;42.0000
P77=-91.5000 ;42.0360
P78=-91.2500 ;42.1465
P79=-91.0000 ;42.2570
P80=-90.7500 ;42.3410
P81=-90.5000 ;42.4250
P82=-90.1550 ;42.5000
P83=-90.0000 ;42.5270
P84=-89.7500 ;42.5435
P85=-89.5000 ;42.5600
P86=-89.2500 ;42.5480
P87=-89.0000 ;42.5360
P88=-88.7980 ;42.5000
P89=-88.5000 ;42.4300
P90=-88.2500 ;42.3245
P91=-88.0000 ;42.2190
P92=-87.8315 ;42.1095
P93=-87.6630 ;42.0000
P94=-87.5000 ;41.8650
P95=-87.3365 ;41.6825
P96=-87.1730 ;41.5000
P97=-87.0000 ;41.2220
[C4]
gain=-6.00
n_point=90
P1=-87.5000 ;40.2830
P2=-87.4610 ;40.1415
P3=-87.4220 ;40.0000
P4=-87.3925 ;39.7500
P5=-87.3630 ;39.5000
P6=-87.3775 ;39.2500
P7=-87.3920 ;39.0000
P8=-87.4355 ;38.7500
P9=-87.4790 ;38.5000
P10=-87.5000 ;38.4250
P11=-87.5725 ;38.2125
P12=-87.6450 ;38.0000
P13=-87.7203 ;37.8333
P14=-87.7957 ;37.6667
P15=-87.8710 ;37.5000

P16=-87.9355 ;37.3820
P17=-88.0000 ;37.2640
P18=-88.0880 ;37.1320
P19=-88.1760 ;37.0000
P20=-88.3380 ;36.7970
P21=-88.5000 ;36.5940
P22=-88.5920 ;36.5000
P23=-88.7960 ;36.3255
P24=-89.0000 ;36.1510
P25=-89.2240 ;36.0000
P26=-89.3620 ;35.9220
P27=-89.5000 ;35.8440
P28=-89.7500 ;35.7455
P29=-90.0000 ;35.6470
P30=-90.2500 ;35.5960
P31=-90.5000 ;35.5450
P32=-90.7500 ;35.5555
P33=-91.0000 ;35.5660
P34=-91.2500 ;35.6345
P35=-91.5000 ;35.7030
P36=-91.7500 ;35.8310
P37=-92.0000 ;35.9590
P38=-92.0540 ;36.0000
P39=-92.2027 ;36.1457
P40=-92.3513 ;36.2913
P41=-92.5000 ;36.4370
P42=-92.5500 ;36.5000
P43=-92.6400 ;36.6667
P44=-92.7300 ;36.8333
P45=-92.8200 ;37.0000
P46=-92.8773 ;37.1667
P47=-92.9347 ;37.3333
P48=-92.9920 ;37.5000
P49=-93.0000 ;37.5470
P50=-93.0305 ;37.7735
P51=-93.0610 ;38.0000
P52=-93.0590 ;38.2500
P53=-93.0570 ;38.5000
P54=-93.0285 ;38.6790
P55=-93.0000 ;38.8580
P56=-92.9720 ;39.0000
P57=-92.9120 ;39.1667
P58=-92.8520 ;39.3333
P59=-92.7920 ;39.5000
P60=-92.7107 ;39.6667
P61=-92.6293 ;39.8333
P62=-92.5480 ;40.0000
P63=-92.5000 ;40.0750
P64=-92.3365 ;40.2875
P65=-92.1730 ;40.5000
P66=-92.0000 ;40.6880
P67=-91.8240 ;40.8440
P68=-91.6480 ;41.0000
P69=-91.5000 ;41.1110
P70=-91.2500 ;41.2580
P71=-91.0000 ;41.4050
P72=-90.7770 ;41.5000

P73=-90.5000 ;41.5990
P74=-90.2500 ;41.6520
P75=-90.0000 ;41.7050
P76=-89.7500 ;41.7190
P77=-89.5000 ;41.7330
P78=-89.2500 ;41.7015
P79=-89.0000 ;41.6700
P80=-88.7545 ;41.5850
P81=-88.5090 ;41.5000
P82=-88.5000 ;41.4960
P83=-88.3333 ;41.3717
P84=-88.1667 ;41.2473
P85=-88.0000 ;41.1230
P86=-87.8880 ;41.0000
P87=-87.7860 ;40.8333
P88=-87.6840 ;40.6667
P89=-87.5820 ;40.5000
P90=-87.5000 ;40.2830

[C5]

gain=-4.00

n_point=86

P1=-88.0000 ;40.0640
P2=-87.9750 ;40.0000
P3=-87.9397 ;39.8333
P4=-87.9043 ;39.6667
P5=-87.8690 ;39.5000
P6=-87.8670 ;39.3333
P7=-87.8650 ;39.1667
P8=-87.8630 ;39.0000
P9=-87.8910 ;38.8333
P10=-87.9190 ;38.6667
P11=-87.9470 ;38.5000
P12=-88.0000 ;38.3230
P13=-88.0595 ;38.1615
P14=-88.1190 ;38.0000
P15=-88.2033 ;37.8333
P16=-88.2877 ;37.6667
P17=-88.3720 ;37.5000
P18=-88.4360 ;37.3995
P19=-88.5000 ;37.2990
P20=-88.6185 ;37.1495
P21=-88.7370 ;37.0000
P22=-88.8685 ;36.8660
P23=-89.0000 ;36.7320
P24=-89.1460 ;36.6160
P25=-89.2920 ;36.5000
P26=-89.3960 ;36.4325
P27=-89.5000 ;36.3650
P28=-89.6667 ;36.2913
P29=-89.8333 ;36.2177
P30=-90.0000 ;36.1440
P31=-90.2500 ;36.0945
P32=-90.5000 ;36.0450
P33=-90.7500 ;36.0655
P34=-91.0000 ;36.0860
P35=-91.1667 ;36.1457
P36=-91.3333 ;36.2053

P37=-91.5000 ;36.2650
P38=-91.6710 ;36.3825
P39=-91.8420 ;36.5000
P40=-92.0000 ;36.6600
P41=-92.1210 ;36.8300
P42=-92.2420 ;37.0000
P43=-92.3173 ;37.1667
P44=-92.3927 ;37.3333
P45=-92.4680 ;37.5000
P46=-92.5000 ;37.6560
P47=-92.5265 ;37.8280
P48=-92.5530 ;38.0000
P49=-92.5513 ;38.1667
P50=-92.5497 ;38.3333
P51=-92.5480 ;38.5000
P52=-92.5240 ;38.6290
P53=-92.5000 ;38.7580
P54=-92.4720 ;38.8790
P55=-92.4440 ;39.0000
P56=-92.3747 ;39.1667
P57=-92.3053 ;39.3333
P58=-92.2360 ;39.5000
P59=-92.1573 ;39.6347
P60=-92.0787 ;39.7693
P61=-92.0000 ;39.9040
P62=-91.9300 ;40.0000
P63=-91.7867 ;40.1540
P64=-91.6433 ;40.3080
P65=-91.5000 ;40.4620
P66=-91.4550 ;40.5000
P67=-91.3033 ;40.6027
P68=-91.1517 ;40.7053
P69=-91.0000 ;40.8080
P70=-90.8035 ;40.9040
P71=-90.6070 ;41.0000
P72=-90.5000 ;41.0430
P73=-90.2500 ;41.0995
P74=-90.0000 ;41.1560
P75=-89.7500 ;41.1620
P76=-89.5000 ;41.1680
P77=-89.2500 ;41.1140
P78=-89.0000 ;41.0600
P79=-88.8740 ;41.0000
P80=-88.6870 ;40.8815
P81=-88.5000 ;40.7630
P82=-88.3755 ;40.6315
P83=-88.2510 ;40.5000
P84=-88.1673 ;40.3547
P85=-88.0837 ;40.2093
P86=-88.0000 ;40.0640
[C6]
gain=-2.00
n_point=82
P1=-89.0000 ;40.1270
P2=-88.9355 ;40.0635
P3=-88.8710 ;40.0000
P4=-88.8025 ;39.8750

P5=-88.7340 ;39.7500
P6=-88.6655 ;39.6250
P7=-88.5970 ;39.5000
P8=-88.5765 ;39.3750
P9=-88.5560 ;39.2500
P10=-88.5355 ;39.1250
P11=-88.5150 ;39.0000
P12=-88.5328 ;38.8750
P13=-88.5505 ;38.7500
P14=-88.5683 ;38.6250
P15=-88.5860 ;38.5000
P16=-88.6350 ;38.3750
P17=-88.6840 ;38.2500
P18=-88.7330 ;38.1250
P19=-88.7820 ;38.0000
P20=-88.8547 ;37.8730
P21=-88.9273 ;37.7460
P22=-89.0000 ;37.6190
P23=-89.0930 ;37.5000
P24=-89.1947 ;37.4005
P25=-89.2965 ;37.3010
P26=-89.3982 ;37.2015
P27=-89.5000 ;37.1020
P28=-89.5820 ;37.0510
P29=-89.6640 ;37.0000
P30=-89.7760 ;36.9463
P31=-89.8880 ;36.8927
P32=-90.0000 ;36.8390
P33=-90.1667 ;36.8107
P34=-90.3333 ;36.7823
P35=-90.5000 ;36.7540
P36=-90.6667 ;36.7813
P37=-90.8333 ;36.8087
P38=-91.0000 ;36.8360
P39=-91.1415 ;36.9180
P40=-91.2830 ;37.0000
P41=-91.3915 ;37.1010
P42=-91.5000 ;37.2020
P43=-91.5643 ;37.3013
P44=-91.6287 ;37.4007
P45=-91.6930 ;37.5000
P46=-91.7345 ;37.6250
P47=-91.7760 ;37.7500
P48=-91.8175 ;37.8750
P49=-91.8590 ;38.0000
P50=-91.8607 ;38.1250
P51=-91.8625 ;38.2500
P52=-91.8643 ;38.3750
P53=-91.8660 ;38.5000
P54=-91.8330 ;38.6250
P55=-91.8000 ;38.7500
P56=-91.7670 ;38.8750
P57=-91.7340 ;39.0000
P58=-91.6755 ;39.1170
P59=-91.6170 ;39.2340
P60=-91.5585 ;39.3510
P61=-91.5000 ;39.4680

P62=-91.4780 ;39.5000
P63=-91.3834 ;39.6000
P64=-91.2888 ;39.7000
P65=-91.1942 ;39.8000
P66=-91.0996 ;39.9000
P67=-91.0050 ;40.0000
P68=-91.0000 ;40.0040
P69=-90.8750 ;40.0723
P70=-90.7500 ;40.1405
P71=-90.6250 ;40.2088
P72=-90.5000 ;40.2770
P73=-90.3333 ;40.3210
P74=-90.1667 ;40.3650
P75=-90.0000 ;40.4090
P76=-89.8333 ;40.3957
P77=-89.6667 ;40.3823
P78=-89.5000 ;40.3690
P79=-89.3750 ;40.3085
P80=-89.2500 ;40.2480
P81=-89.1250 ;40.1875
P82=-89.0000 ;40.1270