

* * * 方向角 · 距離 計算書 * * *

NO 1
 点名 X Y
 1 1-5 - 146342.487 - 52799.467
 2 2-2-25 - 146351.478 - 52797.504
 COS=- 0.976986 SIN=+ 0.213305
 A L= 167-41- 2 L = 9.203

NO 2
 点名 X Y
 1 2-2-26 - 146372.793 - 52792.198
 2 3-10 - 146380.602 - 52791.097
 COS=- 0.990207 SIN=+ 0.139610
 A L= 171-58-29 L = 7.886

NO 3
 点名 X Y
 1 3-11 - 146441.793 - 52777.782
 2 5-36 - 146451.794 - 52775.627
 COS=- 0.977563 SIN=+ 0.210644
 A L= 167-50-24 L = 10.231

NO 4
 点名 X Y
 1 5-37 - 146539.389 - 52765.931
 2 8-48 - 146549.709 - 52766.440
 COS=- 0.998786 SIN=- 0.049262
 A L= 182-49-25 L = 10.333

NO 5
 点名 X Y
 1 2-1-4 - 146375.445 - 52882.222
 2 2-2-21 - 146368.157 - 52873.333
 COS=+ 0.634029 SIN=+ 0.773310
 A L= 50-39- 7 L = 11.495

NO 6
 点名 X Y
 1 2-3-18 - 146426.855 - 52874.243
 2 2-4-9 - 146426.855 - 52879.195
 COS=+ 0.000000 SIN=- 1.000000
 A L= 270- 0- 0 L = 4.952

NO 7
 点名 X Y
 1 3-8 - 146393.078 - 52822.962
 2 4-17 - 146399.160 - 52830.912
 COS=- 0.607613 SIN=- 0.794233
 A L= 232-34-58 L = 10.010

NO 8
 点名 X Y
 1 3-13 - 146451.359 - 52808.274
 2 4-20 - 146453.305 - 52816.268
 COS=- 0.236525 SIN=- 0.971625
 A L= 256-19- 6 L = 8.227

NO 9
 点名 X Y
 1 4-21 - 146463.874 - 52873.933
 2 2-4-16 - 146465.193 - 52882.181
 COS=- 0.157911 SIN=- 0.987453
 A L= 260-54-52 L = 8.353

NO 10
 点名 X Y
 1 5-34 - 146469.881 - 52873.541
 2 7-10 - 146471.515 - 52883.795
 COS=- 0.157367 SIN=- 0.987540
 A L= 260-56-45 L = 10.383

NO 11
 点名 X Y
 1 2-4-18 - 146468.862 - 52919.433
 2 7-16 - 146479.242 - 52919.754
 COS=- 0.999522 SIN=- 0.030910
 A L= 181-46-17 L = 10.385

NO 12
 点名 X Y
 1 5-42 - 146502.733 - 52876.435
 2 6-18 - 146511.089 - 52876.703
 COS=- 0.999486 SIN=- 0.032056
 A L= 181-50-13 L = 8.360

NO 13
 点名 X Y
 1 5-39 - 146538.026 - 52808.069
 2 6-15 - 146539.225 - 52816.204
 COS=- 0.145813 SIN=- 0.989312
 A L= 261-36-56 L = 8.223

NO 14
 点名 X Y
 1 6-16 - 146547.991 - 52875.532
 2 7-13 - 146549.486 - 52885.754
 COS=- 0.144714 SIN=- 0.989474
 A L= 261-40-45 L = 10.331

NO 15
 点名 X Y
 1 7-15 - 146552.509 - 52921.977
 2 10-24 - 146562.864 - 52922.300
 COS=- 0.999514 SIN=- 0.031177
 A L= 181-47-12 L = 10.360

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NO 16
 点名 X Y
 1 9-6 - 146554.134 - 52876.051
 2 10-18 - 146555.632 - 52886.352
 COS=- 0.143909 SIN=- 0.989591
 A L= 261-43-33 L = 10.409

NO 17
 点名 X Y
 1 8-46 - 146545.852 - 52819.947
 2 9-7 - 146547.354 - 52830.057
 COS=- 0.146953 SIN=- 0.989143
 A L= 261-32-59 L = 10.221

NO 18
 点名 X Y
 1 9-12 - 146589.011 - 52879.053
 2 11-35 - 146599.640 - 52879.397
 COS=- 0.999477 SIN=- 0.032347
 A L= 181-51-13 L = 10.635

NO 19
 点名 X Y
 1 8-44 - 146593.983 - 52863.497
 2 11-37 - 146595.914 - 52871.595
 COS=- 0.231951 SIN=- 0.972728
 A L= 256-35-17 L = 8.325

NO 20
 点名 X Y
 1 8-31 - 146613.525 - 52858.235
 2 8-41 - 146605.976 - 52861.216
 COS=+ 0.930108 SIN=- 0.367287
 A L= 338-27-6 L = 8.116

NO 21
 点名 X Y
 1 10-23 - 146646.714 - 52924.866
 2 11-33 - 146657.023 - 52925.177
 COS=- 0.999545 SIN=- 0.030154
 A L= 181-43-41 L = 10.314

NO 22
 点名 X Y
 1 8-51 - 146646.304 - 52837.711
 2 11-40 - 146651.959 - 52843.943
 COS=- 0.671992 SIN=- 0.740558
 A L= 227-46-44 L = 8.415

NO 23
 点名 X Y
 1 8-49 - 146617.777 - 52756.930
 2 K.38 - 146622.341 - 52755.944
 COS=- 0.977450 SIN=+ 0.211167
 A L= 167-48-33 L = 4.669

NO 24
 点名 X Y
 1 12-54 - 146728.208 - 52927.367
 2 14-10 - 146738.842 - 52927.692
 COS=- 0.999533 SIN=- 0.030548
 A L= 181-45-2 L = 10.639

NO 25
 点名 X Y
 1 13-7 - 146728.426 - 52894.745
 2 14-12 - 146730.479 - 52902.709
 COS=- 0.249624 SIN=- 0.968343
 A L= 255-32-41 L = 8.224

NO 26
 点名 X Y
 1 12-51 - 146701.559 - 52823.983
 2 13-9 - 146711.438 - 52821.010
 COS=- 0.957578 SIN=+ 0.288175
 A L= 163-15-5 L = 10.317

NO 27
 点名 X Y
 1 15-24 - 146471.202 - 52931.504
 2 17-10 - 146481.652 - 52931.835
 COS=- 0.999499 SIN=- 0.031659
 A L= 181-48-51 L = 10.455

NO 28
 点名 X Y
 1 17-11 - 146554.796 - 52934.043
 2 20-11 - 146565.202 - 52934.363
 COS=- 0.999528 SIN=- 0.030737
 A L= 181-45-41 L = 10.411

NO 29
 点名 X Y
 1 20-12 - 146648.523 - 52936.906
 2 23-18 - 146658.957 - 52937.242
 COS=- 0.999482 SIN=- 0.032186
 A L= 181-50-40 L = 10.439

NO 30
 点名 X Y
 1 15-26 - 146479.165 - 52967.467
 2 16-29 - 146480.871 - 52977.710
 COS=- 0.164290 SIN=- 0.986412
 A L= 260-32-38 L = 10.384

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NO 31
 点名 X Y
 1 17-8 - 146485.363 - 52968.098
 2 18-11 - 146487.044 - 52978.322
 COS=- 0.162239 SIN=- 0.986752
 A L= 260-39-47 L = 10.361

NO 32
 点名 X Y
 1 18-13 - 146520.391 - 52977.007
 2 19-11 - 146530.844 - 52977.339
 COS=- 0.999496 SIN=- 0.031745
 A L= 181-49-9 L = 10.458

NO 33
 点名 X Y
 1 17-13 - 146562.722 - 52970.003
 2 19-13 - 146564.436 - 52980.259
 COS=- 0.164836 SIN=- 0.986321
 A L= 260-30-44 L = 10.398

NO 34
 点名 X Y
 1 20-9 - 146568.902 - 52970.606
 2 21-10 - 146570.613 - 52980.844
 COS=- 0.164836 SIN=- 0.986321
 A L= 260-30-44 L = 10.380

NO 35
 点名 X Y
 1 21-12 - 146609.065 - 52979.743
 2 22-11 - 146619.454 - 52980.058
 COS=- 0.999541 SIN=- 0.030307
 A L= 181-44-12 L = 10.394

NO 36
 点名 X Y
 1 20-14 - 146656.458 - 52972.878
 2 22-13 - 146658.185 - 52983.141
 COS=- 0.165941 SIN=- 0.986136
 A L= 260-26-53 L = 10.407

NO 37
 点名 X Y
 1 16-31 - 146496.847 - 53088.201
 2 18-17 - 146507.435 - 53089.677
 COS=- 0.990423 SIN=- 0.138068
 A L= 187-56-10 L = 10.690

NO 38
 点名 X Y
 1 18-16 - 146539.404 - 53094.083
 2 19-16 - 146550.122 - 53094.154
 COS=- 0.999978 SIN=- 0.006624
 A L= 180-22-46 L = 10.718

NO 39
 点名 X Y
 1 25-1-6 - 146541.116 - 53100.363
 2 26-10 - 146551.076 - 53100.054
 COS=- 0.999519 SIN=+ 0.031009
 A L= 178-13-23 L = 9.965

NO 40
 点名 X Y
 1 19-15 - 146580.450 - 53089.074
 2 21-16 - 146590.586 - 53087.389
 COS=- 0.986462 SIN=+ 0.163989
 A L= 170-33-41 L = 10.275

NO 41
 点名 X Y
 1 26-11 - 146582.399 - 53094.802
 2 27-10 - 146590.570 - 53093.488
 COS=- 0.987315 SIN=+ 0.158773
 A L= 170-51-52 L = 8.276

NO 42
 点名 X Y
 1 21-15 - 146625.803 - 53081.517
 2 22-8 - 146635.916 - 53079.826
 COS=- 0.986307 SIN=+ 0.164921
 A L= 170-30-27 L = 10.253

NO 43
 点名 X Y
 1 27-11 - 146627.373 - 53087.324
 2 28-10 - 146635.505 - 53085.973
 COS=- 0.986479 SIN=+ 0.163888
 A L= 170-34-3 L = 8.243

NO 44
 点名 X Y
 1 25-1-10 - 146541.915 - 53137.246
 2 25-2-6 - 146540.055 - 53145.894
 COS=+ 0.210270 SIN=- 0.977643
 A L= 282-8-17 L = 8.846

NO 45
 点名 X Y
 1 27-14 - 146631.119 - 53138.916
 2 28-7 - 146639.042 - 53134.938
 COS=- 0.893681 SIN=+ 0.448702
 A L= 153-20-22 L = 8.866

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NO 46
 点名 X Y
 1 28-14 - 146692.967 - 53173.584
 2 29-10 - 146702.181 - 53169.216
 COS=- 0.903606 SIN=+ 0.428365
 A L= 154-38-10 L = 10.197

NO 47
 点名 X Y
 1 C12 - 146316.220 - 52802.146
 2 C11 - 146311.985 - 52802.319
 COS=+ 0.999167 SIN=- 0.040816
 A L= 357-39-39 L = 4.239

NO 48
 点名 X Y
 1 C13 - 146346.355 - 52795.552
 2 C70 - 146362.820 - 52870.806
 COS=- 0.213736 SIN=- 0.976891
 A L= 257-39-31 L = 77.034

NO 49
 点名 X Y
 1 C80 - 146385.561 - 52815.903
 2 C14-1 - 146375.279 - 52789.192
 COS=+ 0.359239 SIN=+ 0.933246
 A L= 68-56-48 L = 28.622

NO 50
 点名 X Y
 1 C35-1 - 146455.229 - 52811.571
 2 C16 - 146446.053 - 52773.796
 COS=+ 0.236048 SIN=+ 0.971741
 A L= 76-20-48 L = 38.874

NO 51
 点名 X Y
 1 NC39 - 146539.421 - 52796.895
 2 NC25 - 146545.273 - 52763.448
 COS=- 0.172345 SIN=+ 0.985037
 A L= 99-55-27 L = 33.955

NO 52
 点名 X Y
 1 C30 - 146603.306 - 52757.387
 2 C31 - 146620.631 - 52754.434
 COS=- 0.985783 SIN=+ 0.168024
 A L= 170-19-37 L = 17.575

NO 53
 点名 X Y
 1 C79 - 146399.781 - 52915.246
 2 C2 - 146407.706 - 52923.549
 COS=- 0.690449 SIN=- 0.723381
 A L= 226-20-4 L = 11.478

NO 54
 点名 X Y
 1 KC87-2 - 146396.134 - 52876.798
 2 NC70-1 - 146367.518 - 52876.517
 COS=+ 0.999952 SIN=+ 0.009819
 A L= 0-33-45 L = 28.617

NO 55
 点名 X Y
 1 KC87-1 - 146406.184 - 52876.920
 2 HC87 - 146429.341 - 52877.224
 COS=- 0.999914 SIN=- 0.013127
 A L= 180-45-8 L = 23.159

NO 56
 点名 X Y
 1 C81 - 146393.293 - 52826.714
 2 C35-1 - 146455.229 - 52811.571
 COS=- 0.971388 SIN=+ 0.237499
 A L= 166-15-40 L = 63.760

NO 57
 点名 X Y
 1 C88 - 146430.843 - 52877.243
 2 C33 - 146467.601 - 52878.361
 COS=- 0.999538 SIN=- 0.030401
 A L= 181-44-32 L = 36.775

NO 58
 点名 X Y
 1 C36 - 146507.582 - 52879.585
 2 C33 - 146467.601 - 52878.361
 COS=+ 0.999532 SIN=+ 0.030600
 A L= 1-45-13 L = 40.000

NO 59
 点名 X Y
 1 C33 - 146467.601 - 52878.361
 2 C3 - 146475.209 - 52925.616
 COS=- 0.158952 SIN=- 0.987286
 A L= 260-51-14 L = 47.864

NO 60
 点名 X Y
 1 C90 - 146503.676 - 52855.326
 2 C36 - 146507.582 - 52879.585
 COS=- 0.158965 SIN=- 0.987284
 A L= 260-51-11 L = 24.571

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NO 61
 点名 X Y
 1 C95 - 146529.101 - 52813.531
 2 C38 - 146541.601 - 52811.688
 COS=- 0.989305 SIN=+ 0.145863
 A L= 171-36-46 L = 12.635

NO 62
 点名 X Y
 1 C36 - 146507.582 - 52879.585
 2 C37 - 146551.808 - 52880.940
 COS=- 0.999531 SIN=- 0.030624
 A L= 181-45-18 L = 44.247

NO 63
 点名 X Y
 1 C37 - 146551.808 - 52880.940
 2 C4 - 146558.770 - 52928.175
 COS=- 0.145815 SIN=- 0.989312
 A L= 261-36-56 L = 47.745

NO 64
 点名 X Y
 1 C41 - 146595.288 - 52882.272
 2 C37 - 146551.808 - 52880.940
 COS=+ 0.999531 SIN=+ 0.030620
 A L= 1-45-17 L = 43.500

NO 65
 点名 X Y
 1 HC40 - 146580.339 - 52820.023
 2 HC38 - 146543.627 - 52825.434
 COS=+ 0.989312 SIN=- 0.145815
 A L= 351-36-56 L = 37.109

NO 66
 点名 X Y
 1 HC41-1 - 146592.067 - 52868.859
 2 C41 - 146595.288 - 52882.272
 COS=- 0.233502 SIN=- 0.972356
 A L= 256-29-48 L = 13.794

NO 67
 点名 X Y
 1 KC96-1 - 146610.211 - 52861.685
 2 HC41-1 - 146592.067 - 52868.859
 COS=+ 0.929947 SIN=- 0.367694
 A L= 338-25-36 L = 19.511

NO 68
 点名 X Y
 1 KC96-2 - 146605.943 - 52843.326
 2 KC96-1 - 146610.211 - 52861.685
 COS=- 0.226436 SIN=- 0.974026
 A L= 256-54-46 L = 18.849

NO 69
 点名 X Y
 1 KC96-2 - 146605.943 - 52843.326
 2 KC96-3 - 146603.168 - 52827.737
 COS=+ 0.175255 SIN=+ 0.984523
 A L= 79-54-23 L = 15.834

NO 70
 点名 X Y
 1 C49 - 146650.375 - 52907.196
 2 C5 - 146652.523 - 52931.046
 COS=- 0.089700 SIN=- 0.995969
 A L= 264-51-13 L = 23.947

NO 71
 点名 X Y
 1 C99 - 146637.665 - 52847.415
 2 C100 - 146650.867 - 52840.038
 COS=- 0.872960 SIN=+ 0.487792
 A L= 150-48-16 L = 15.123

NO 72
 点名 X Y
 1 C128 - 146627.450 - 52779.404
 2 C31 - 146620.631 - 52754.434
 COS=+ 0.263441 SIN=+ 0.964676
 A L= 74-43-32 L = 25.884

NO 73
 点名 X Y
 1 C101 - 146691.247 - 52907.721
 2 C6 - 146695.423 - 52932.360
 COS=- 0.167104 SIN=- 0.985939
 A L= 260-22-50 L = 24.990

NO 74
 点名 X Y
 1 C50 - 146726.546 - 52899.469
 2 C7 - 146735.404 - 52933.584
 COS=- 0.251318 SIN=- 0.967905
 A L= 255-26-40 L = 35.246

NO 75
 点名 X Y
 1 C136 - 146743.660 - 52895.026
 2 C50 - 146726.546 - 52899.469
 COS=+ 0.967914 SIN=- 0.251282
 A L= 345-26-48 L = 17.681

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NO 76
 点名 X Y
 1 C130 - 146689.997 - 52826.241
 2 C129 - 146678.944 - 52831.092
 COS=+ 0.915691 SIN=- 0.401883
 AL= 336-18-15 L = 12.071

NO 77
 点名 X Y
 1 C50 - 146726.546 - 52899.469
 2 C132 - 146706.042 - 52820.501
 COS=+ 0.251316 SIN=+ 0.967905
 AL= 75-26-41 L = 81.587

NO 78
 点名 X Y
 1 C134 - 146722.380 - 52816.710
 2 C135 - 146732.421 - 52815.391
 COS=- 0.991482 SIN=+ 0.130243
 AL= 172-30-59 L = 10.127

NO 79
 点名 X Y
 1 C141 - 146786.514 - 52889.412
 2 C142 - 146808.055 - 52935.809
 COS=- 0.421104 SIN=- 0.907012
 AL= 245- 5-45 L = 51.154

NO 80
 点名 X Y
 1 C3 - 146475.209 - 52925.616
 2 C2 - 146407.706 - 52923.549
 COS=+ 0.999532 SIN=+ 0.030607
 AL= 1-45-14 L = 67.535

NO 81
 点名 X Y
 1 C53 - 146483.100 - 52972.880
 2 C3 - 146475.209 - 52925.616
 COS=+ 0.164676 SIN=+ 0.986348
 AL= 80-31-18 L = 47.918

NO 82
 点名 X Y
 1 C55 - 146566.661 - 52975.439
 2 C4 - 146558.770 - 52928.175
 COS=+ 0.164676 SIN=+ 0.986348
 AL= 80-31-18 L = 47.918

NO 83
 点名 X Y
 1 C57 - 146660.414 - 52978.310
 2 C5 - 146652.523 - 52931.046
 COS=+ 0.164676 SIN=+ 0.986348
 AL= 80-31-18 L = 47.918

NO 84
 点名 X Y
 1 C161 - 146696.980 - 52941.552
 2 C6 - 146695.423 - 52932.360
 COS=+ 0.167007 SIN=+ 0.985956
 AL= 80-23-10 L = 9.323

NO 85
 点名 X Y
 1 C9 - 146811.182 - 52956.208
 2 C10 - 146839.271 - 53013.757
 COS=- 0.438629 SIN=- 0.898668
 AL= 243-59- 1 L = 64.038

NO 86
 点名 X Y
 1 C53 - 146483.100 - 52972.880
 2 C52 - 146447.244 - 52971.782
 COS=+ 0.999531 SIN=+ 0.030608
 AL= 1-45-14 L = 35.873

NO 87
 点名 X Y
 1 C54 - 146524.880 - 52974.160
 2 C53 - 146483.100 - 52972.880
 COS=+ 0.999531 SIN=+ 0.030622
 AL= 1-45-17 L = 41.800

NO 88
 点名 X Y
 1 C54 - 146524.880 - 52974.160
 2 C59 - 146545.546 - 53097.942
 COS=- 0.164676 SIN=- 0.986348
 AL= 260-31-18 L = 125.495

NO 89
 点名 X Y
 1 C54 - 146524.880 - 52974.160
 2 C55 - 146566.661 - 52975.439
 COS=- 0.999532 SIN=- 0.030598
 AL= 181-45-12 L = 41.801

NO 90
 点名 X Y
 1 C56 - 146613.537 - 52976.875
 2 C55 - 146566.661 - 52975.439
 COS=+ 0.999531 SIN=+ 0.030620
 AL= 1-45-17 L = 46.898

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NO 91
 点名 X Y
 1 C56 - 146613.537 - 52976.875
 2 C61 - 146631.358 - 53083.615
 COS=- 0.164678 SIN=- 0.986347
 A L= 260-31-17 L = 108.217

NO 92
 点名 X Y
 1 C56 - 146613.537 - 52976.875
 2 C57 - 146660.414 - 52978.310
 COS=- 0.999532 SIN=- 0.030598
 A L= 181-45-12 L = 46.899

NO 93
 点名 X Y
 1 C58 - 146502.999 - 53092.072
 2 C65 - 146474.482 - 53088.137
 COS=+ 0.990614 SIN=+ 0.136693
 A L= 7-51-23 L = 28.787

NO 94
 点名 X Y
 1 C53 - 146483.100 - 52972.880
 2 C58 - 146502.999 - 53092.072
 COS=- 0.164670 SIN=- 0.986349
 A L= 260-31-19 L = 120.842

NO 95
 点名 X Y
 1 C64 - 146548.974 - 53118.472
 2 C59 - 146545.546 - 53097.942
 COS=+ 0.164695 SIN=+ 0.986345
 A L= 80-31-14 L = 20.814

NO 96
 点名 X Y
 1 C55 - 146566.661 - 52975.439
 2 C60 - 146585.986 - 53091.190
 COS=- 0.164674 SIN=- 0.986348
 A L= 260-31-18 L = 117.353

NO 97
 点名 X Y
 1 C145 - 146592.250 - 53128.712
 2 C60 - 146585.986 - 53091.190
 COS=+ 0.164663 SIN=+ 0.986350
 A L= 80-31-20 L = 38.041

NO 98
 点名 X Y
 1 C61 - 146631.358 - 53083.615
 2 C146 - 146634.777 - 53139.305
 COS=- 0.061278 SIN=- 0.998121
 A L= 266-29-13 L = 55.795

NO 99
 点名 X Y
 1 C61 - 146631.358 - 53083.615
 2 C66 - 146676.730 - 53076.040
 COS=- 0.986348 SIN=+ 0.164674
 A L= 170-31-18 L = 46.000

NO 100
 点名 X Y
 1 C57 - 146660.414 - 52978.310
 2 C66 - 146676.730 - 53076.040
 COS=- 0.164671 SIN=- 0.986349
 A L= 260-31-19 L = 99.083

NO 101
 点名 X Y
 1 C69 - 146718.372 - 53069.088
 2 C66 - 146676.730 - 53076.040
 COS=+ 0.986349 SIN=- 0.164668
 A L= 350-31-19 L = 42.218

NO 102
 点名 X Y
 1 C158 - 146716.652 - 53058.841
 2 C69 - 146718.372 - 53069.088
 COS=- 0.165538 SIN=- 0.986203
 A L= 260-28-17 L = 10.390

NO 103
 点名 X Y
 1 C157 - 146723.704 - 53100.873
 2 C69 - 146718.372 - 53069.088
 COS=+ 0.165440 SIN=+ 0.986220
 A L= 80-28-38 L = 32.229

NO 104
 点名 X Y
 1 C63 - 146535.827 - 53179.749
 2 C62 - 146457.275 - 53161.469
 COS=+ 0.973975 SIN=+ 0.226656
 A L= 13- 6- 1 L = 80.651

NO 105
 点名 X Y
 1 C63-1 - 146543.879 - 53142.220
 2 C63-2 - 146526.301 - 53138.345
 COS=+ 0.976553 SIN=+ 0.215277
 A L= 12-25-54 L = 18.000

* * * 方 向 角 · 距 離 計 算 書 * * *

NO 106
 点名 X Y
 1 C144 - 146585.353 - 53151.257
 2 C143 - 146582.327 - 53161.218
 COS=+ 0.290668 SIN=- 0.956824
 AL= 286-53-53 L = 10.410

NO 107
 点名 X Y
 1 NC68 - 146689.982 - 53155.416
 2 NC67 - 146697.899 - 53172.114
 COS=- 0.428414 SIN=- 0.903582
 AL= 244-37-59 L = 18.480

NO 108
 点名 X Y
 1 NC67-1 - 146698.413 - 53173.198
 2 C149 - 146692.977 - 53175.776
 COS=+ 0.903541 SIN=- 0.428501
 AL= 334-37-39 L = 6.016

NO 109
 点名 X Y
 1 C149-1 - 146706.389 - 53169.417
 2 C150 - 146720.166 - 53162.950
 COS=- 0.905231 SIN=+ 0.424920
 AL= 154-51-16 L = 15.219

NO 110
 点名 X Y
 1 C152 - 146727.031 - 53115.242
 2 C151 - 146727.614 - 53116.809
 COS=- 0.348697 SIN=- 0.937235
 AL= 249-35-32 L = 1.672

NO 111
 点名 X Y
 1 C6 - 146695.423 - 52932.360
 2 C7 - 146735.404 - 52933.584
 COS=- 0.999532 SIN=- 0.030600
 AL= 181-45-13 L = 40.000

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	1 P1	2	P2	3	P3		
ALH T1.T2	357-39-39	319- 1- 9	167-41- 2	77-39-31	171-58-29	68-56-48		
SIN T1.T2	-0.040815	-0.655807	+0.213305	+0.976891	+0.139610	+0.933246		
COS T1.T2	+0.999167	+0.754929	-0.976986	+0.213736	-0.990207	+0.359237		
コウカク = T	38-38-30		90- 1-31		103- 1-41			
COSEC T	+ 1.601415		+ 1.000000		+ 1.026420			
	X	Y						
1 C12	- 146316.220	- 52802.146	1-5	- 146342.487	- 52799.467	2-2-26	- 146372.793	- 52792.198
2 K.2	- 146315.585	- 52799.232	C70	- 146362.820	- 52870.806	C80	- 146385.561	- 52815.903
X1-2.Y2-1	- 0.635	+ 2.914		+ 20.333	- 71.339		+ 12.768	- 23.705
X1-2*SI1.2	+ 0.0259	+ 0.4164		+ 4.3371	+ 19.8631		+ 1.7825	+ 11.9157
Y2-1*CO1.2	+ 2.9116	+ 2.1999		+ 69.6972	- 15.2477		+ 23.4728	- 8.5157
COSEC*S1.2	+ 4.7041	+ 4.1898		+ 74.0343	+ 4.6154		+ 25.9226	+ 3.4898
キヨリ S1.S2	4.190	4.704		4.615	74.034		3.490	25.923
	X	Y						
1 C12	- 146316.220	- 52802.146	1-5	- 146342.487	- 52799.467	2-2-26	- 146372.793	- 52792.198
DX DY	+ 4.187	- 0.171		- 4.509	+ 0.984		- 3.456	+ 0.487
3 P1	- 146312.033	- 52802.317	P2	- 146346.996	- 52798.483	P3	- 146376.249	- 52791.711

求 点 名	N O	4 P4	5	P5	6	P6		
ALH T1.T2	167-50-24	76-20-48	182-49-25	99-55-27	170-19-37	76-38-14		
SIN T1.T2	+0.210642	+0.971742	-0.049261	+0.985037	+0.168026	+0.972926		
COS T1.T2	-0.977563	+0.236047	-0.998786	-0.172345	-0.985783	+0.231116		
コウカク = T	91-29-36		82-53-58		93-41-23			
COSEC T	+ 1.000340		+ 1.007729		+ 1.002077			
	X	Y						
1 3-11	- 146441.793	- 52777.782	5-37	- 146539.389	- 52765.931	C30	- 146603.306	- 52757.387
2 C35-1	- 146455.229	- 52811.571	NC39	- 146539.421	- 52796.895	K.36	- 146623.735	- 52755.439
X1-2.Y2-1	+ 13.436	- 33.789		+ 0.032	- 30.964		+ 20.429	+ 1.948
X1-2*SI1.2	+ 2.8302	+ 13.0563		- 0.0016	+ 0.0315		+ 3.4326	+ 19.8759
Y2-1*CO1.2	+ 33.0309	- 7.9758		+ 30.9264	+ 5.3365		- 1.9203	+ 0.4502
COSEC*S1.2	+ 35.8733	+ 5.0823		+ 31.1638	+ 5.4095		+ 1.5154	+ 20.3683
キヨリ S1.S2	5.082	35.873		5.409	31.164		20.368	1.515
	X	Y						
1 3-11	- 146441.793	- 52777.782	5-37	- 146539.389	- 52765.931	C30	- 146603.306	- 52757.387
DX DY	- 4.968	+ 1.070		- 5.402	- 0.266		- 20.078	+ 3.422
3 P4	- 146446.761	- 52776.712	P5	- 146544.791	- 52766.197	P6	- 146623.384	- 52753.965

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	7 P7	8	P8	9	P9		
ALH T1.T2	1-44-40	226-20- 4	0-33-45	230-39- 7	180-45- 8	90- 0- 0		
SIN T1.T2	+0.030442	-0.723382	+0.009817	-0.773309	-0.013128	+1.000000		
COS T1.T2	+0.999537	-0.690448	+0.999952	-0.634030	-0.999914	+0.000000		
コウカク = T	135-24-36		129-54-38		90-45- 8			
COSEC T	+ 1.424443		+ 1.303701		+ 1.000086			
	X	Y						
1 2-4-13	- 146406.972	- 52917.548	KC87-2	- 146396.134	- 52876.798	KC87-1	- 146406.184	- 52876.920
2 C79	- 146399.781	- 52915.246	2-2-21	- 146368.157	- 52873.333	2-4-9	- 146426.855	- 52879.195
X1-2.Y2-1	- 7.191	+ 2.302		- 27.977	+ 3.465		+ 20.671	- 2.275
X1-2*SI1.2	- 0.2189	+ 5.2018		- 0.2747	+ 21.6349		- 0.2714	+ 20.6710
Y2-1*CO1.2	+ 2.3009	- 1.5894		+ 3.4648	- 2.1969		+ 2.2748	+ 0.0000
COSEC*S1.2	+ 2.9657	+ 5.1457		+ 4.1590	+ 25.3413		+ 2.0036	+ 20.6728
キヨリ S1.S2	5.146	2.966		25.341	4.159		20.673	2.004
	X	Y						
1 2-4-13	- 146406.972	- 52917.548	KC87-2	- 146396.134	- 52876.798	KC87-1	- 146406.184	- 52876.920
DX DY	+ 5.144	+ 0.157		+ 25.340	+ 0.249		- 20.671	- 0.271
3 P7	- 146401.828	- 52917.391	P8	- 146370.794	- 52876.549	P9	- 146426.855	- 52877.191

求 点 名	N O	10 P10	11	P11	12	P12		
ALH T1.T2	52-34-58	346-15-40	256-19- 6	166-15-40	260-54-52	181-44-32		
SIN T1.T2	+0.794232	-0.237498	-0.971625	+0.237498	-0.987454	-0.030403		
COS T1.T2	+0.607615	+0.971388	-0.236527	-0.971388	-0.157909	-0.999538		
コウカク = T	66-19-18		90- 3-26		79-10-20			
COSEC T	+ 1.091924		+ 1.000000		+ 1.018126			
	X	Y						
1 4-17	- 146399.160	- 52830.912	3-13	- 146451.359	- 52808.274	4-21	- 146463.874	- 52873.933
2 C35-1	- 146455.229	- 52811.571	P10	- 146395.530	- 52826.167	C88	- 146430.843	- 52877.243
X1-2.Y2-1	+ 56.069	+ 19.341		- 55.829	- 17.893		- 33.031	- 3.310
X1-2*SI1.2	+ 44.5318	- 13.3162		+ 54.2448	- 13.2592		+ 32.6166	+ 1.0042
Y2-1*CO1.2	+ 11.7519	+ 18.7876		+ 4.2322	+ 17.3810		+ 0.5227	+ 3.3085
COSEC*S1.2	+ 61.4575	+ 5.9743		+ 58.4771	+ 4.1218		+ 33.7400	+ 4.3909
キヨリ S1.S2	5.974	61.457		4.122	58.477		4.391	33.740
	X	Y						
1 4-17	- 146399.160	- 52830.912	3-13	- 146451.359	- 52808.274	4-21	- 146463.874	- 52873.933
DX DY	+ 3.630	+ 4.745		- 0.975	- 4.005		- 0.693	- 4.336
3 P10	- 146395.530	- 52826.167	P11	- 146452.334	- 52812.279	P12	- 146464.567	- 52878.269

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	13	P13	14	P14	15	P15		
ALH T1.T2		1-45-13	260-56-45	1-46-17	260-51-14	1-50-13	260-51-11		
SIN T1.T2		+0.030602	-0.987540	+0.030912	-0.987286	+0.032055	-0.987284		
COS T1.T2		+0.999532	-0.157368	+0.999522	-0.158953	+0.999486	-0.158967		
コウカク = T		100-48-28		100-55- 3		100-59- 2			
COSEC T	+	1.018059		+ 1.018433		+ 1.018661			
		X	Y						
1 C36	-	146507.582	- 52879.585	7-16	- 146479.242	- 52919.754	6-18	- 146511.089	- 52876.703
2 5-34	-	146469.881	- 52873.541	C33	- 146467.601	- 52878.361	C90	- 146503.676	- 52855.326
X1-2.Y2-1	-	37.701	+ 6.044		- 11.641	+ 41.393		- 7.413	+ 21.377
X1-2*SI1.2	-	1.1537	+ 37.2312		- 0.3598	+ 11.4930		- 0.2376	+ 7.3187
Y2-1*CO1.2	+	6.0412	- 0.9511		+ 41.3732	- 6.5795		+ 21.3660	- 3.3982
COSEC*S1.2	+	4.9757	+ 36.9353		+ 41.7694	+ 5.0040		+ 21.5227	+ 3.9937
キヨリ S1.S2		36.935	4.976		5.004	41.769		3.994	21.523
		X	Y						
1 C36	-	146507.582	- 52879.585	7-16	- 146479.242	- 52919.754	6-18	- 146511.089	- 52876.703
DX DY	+	36.918	+ 1.130		+ 5.002	+ 0.155		+ 3.992	+ 0.128
3 P13	-	146470.664	- 52878.455	P14	- 146474.240	- 52919.599	P15	- 146507.097	- 52876.575

求 点 名	N O	16	P16	17	P17	18	P18		
ALH T1.T2		171-36-46	81-36-56	261-40-45	181-45-18	1-47-12	261-36-56		
SIN T1.T2		+0.145862	+0.989312	-0.989473	-0.030626	+0.031178	-0.989312		
COS T1.T2		-0.989305	+0.145814	-0.144716	-0.999531	+0.999514	-0.145814		
コウカク = T		89-59-50		79-55-27		100-10-16			
COSEC T	+	1.000000		+ 1.015665		+ 1.015966			
		X	Y						
1 C95	-	146529.101	- 52813.531	6-16	- 146547.991	- 52875.532	10-24	- 146562.864	- 52922.300
2 6-15	-	146539.225	- 52816.204	C36	- 146507.582	- 52879.585	C37	- 146551.808	- 52880.940
X1-2.Y2-1	+	10.124	- 2.673		- 40.409	- 4.053		- 11.056	+ 41.360
X1-2*SI1.2	+	1.4767	+ 10.0158		+ 39.9836	+ 1.2376		- 0.3447	+ 10.9378
Y2-1*CO1.2	+	2.6444	- 0.3898		+ 0.5865	+ 4.0511		+ 41.3399	- 6.0309
COSEC*S1.2	+	4.1211	+ 9.6260		+ 41.2057	+ 5.3715		+ 41.6497	+ 4.9853
キヨリ S1.S2		9.626	4.121		5.371	41.206		4.985	41.650
		X	Y						
1 C95	-	146529.101	- 52813.531	6-16	- 146547.991	- 52875.532	10-24	- 146562.864	- 52922.300
DX DY	-	9.523	+ 1.404		- 0.777	- 5.314		+ 4.983	+ 0.155
3 P16	-	146538.624	- 52812.127	P17	- 146548.768	- 52880.846	P18	- 146557.881	- 52922.145

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	19	P19	20	P20	21	P21		
ALH T1.T2		1-45-17	261-43-33	351-36-56	261-32-59	1-51-13	256-29-48		
SIN T1.T2		+0.030621	-0.989591	-0.145814	-0.989144	+0.032346	-0.972356		
COS T1.T2		+0.999531	-0.143910	+0.989312	-0.146951	+0.999477	-0.233502		
コウカク = T		100- 1-44		90- 3-57		105-21-25			
COSEC T	+	1.015517		+ 1.000001		+ 1.037027			
		X	Y						
1 C41	-	146595.288	- 52882.272	HC40	- 146580.339	- 52820.023	11-35	- 146599.640	- 52879.397
2 9-6	-	146554.134	- 52876.051	8-46	- 146545.852	- 52819.947	HC41-1	- 146592.067	- 52868.859
X1-2.Y2-1	-	41.154	+ 6.221		- 34.487	+ 0.076		- 7.573	+ 10.538
X1-2*SI1.2	-	1.2602	+ 40.7256		+ 5.0287	+ 34.1126		- 0.2450	+ 7.3637
Y2-1*CO1.2	+	6.2181	- 0.8953		+ 0.0752	- 0.0112		+ 10.5325	- 2.4606
COSEC*S1.2	+	5.0348	+ 40.4484		+ 5.1039	+ 34.1015		+ 10.6685	+ 5.0846
キヨリ S1.S2		40.448	5.035		34.101	5.104		5.085	10.668
		X	Y						
1 C41	-	146595.288	- 52882.272	HC40	- 146580.339	- 52820.023	11-35	- 146599.640	- 52879.397
DX DY	+	40.429	+ 1.239		+ 33.737	- 4.972		+ 5.082	+ 0.164
3 P19	-	146554.859	- 52881.033	P20	- 146546.602	- 52824.995	P21	- 146594.558	- 52879.233

求 点 名	N O	22	P22	23	P23	24	P24		
ALH T1.T2		76-35-17	338-25-36	338-27- 6	256-54-46	79-54-23	346-37- 3		
SIN T1.T2		+0.972728	-0.367692	-0.367286	-0.974026	+0.984523	-0.231451		
COS T1.T2		+0.231951	+0.929948	+0.930108	-0.226434	+0.175257	+0.972847		
コウカク = T		98- 9-41		81-32-20		93-17-20			
COSEC T	+	1.010232		+ 1.011004		+ 1.001650			
		X	Y						
1 11-37	-	146595.914	- 52871.595	8-31	- 146613.525	- 52858.235	KC96-2	- 146605.943	- 52843.326
2 KC96-1	-	146610.211	- 52861.685	KC96-2	- 146605.943	- 52843.326	8-35	- 146605.177	- 52827.295
X1-2.Y2-1	+	14.297	+ 9.910		- 7.582	+ 14.909		- 0.766	+ 16.031
X1-2*SI1.2	+	13.9071	- 5.2569		+ 2.7848	+ 7.3851		- 0.7541	+ 0.1773
Y2-1*CO1.2	+	2.2986	+ 9.2158		+ 13.8670	- 3.3759		+ 2.8095	+ 15.5957
COSEC*S1.2	+	16.3715	+ 3.9994		+ 16.8350	+ 4.0533		+ 2.0588	+ 15.7990
キヨリ S1.S2		3.999	16.372		4.053	16.835		15.799	2.059
		X	Y						
1 11-37	-	146595.914	- 52871.595	8-31	- 146613.525	- 52858.235	KC96-2	- 146605.943	- 52843.326
DX DY	+	0.928	+ 3.890		+ 3.770	- 1.489		+ 2.769	+ 15.554
3 P22	-	146594.986	- 52867.705	P23	- 146609.755	- 52859.724	P24	- 146603.174	- 52827.772

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	25	P25	26	P26	27	P27		
ALH T1.T2		1-43-41	264-51-13	150-48-16	47-46-44	167-48-33	74-43-32		
SIN T1.T2		+0.030156	-0.995969	+0.487792	+0.740557	+0.211168	+0.964675		
COS T1.T2		+0.999545	-0.089701	-0.872960	+0.671993	-0.977450	+0.263443		
コウカク = T		96-52-28		103- 1-32		93- 5- 1			
COSEC T	+	1.007241		+ 1.026410		+ 1.001450			
		X	Y						
1 11-33	-	146657.023	- 52925.177	C99	- 146637.665	- 52847.415	8-49	- 146617.777	- 52756.930
2 C49	-	146650.375	- 52907.196	11-40	- 146651.959	- 52843.943	C128	- 146627.450	- 52779.404
X1-2.Y2-1	-	6.648	+ 17.981		+ 14.294	+ 3.472		+ 9.673	- 22.474
X1-2*SI1.2	-	0.2005	+ 6.6212		+ 6.9725	+ 10.5855		+ 2.0426	+ 9.3313
Y2-1*CO1.2	+	17.9728	- 1.6129		- 3.0309	+ 2.3332		+ 21.9672	- 5.9206
COSEC*S1.2	+	17.9010	+ 5.0446		+ 4.0457	+ 13.2599		+ 24.0447	+ 3.4156
キヨリ S1.S2		5.045	17.901		13.260	4.046		3.416	24.045
		X	Y						
1 11-33	-	146657.023	- 52925.177	C99	- 146637.665	- 52847.415	8-49	- 146617.777	- 52756.930
DX DY	+	5.043	+ 0.152		- 11.575	+ 6.468		- 3.339	+ 0.721
3 P25	-	146651.980	- 52925.025	P26	- 146649.240	- 52840.947	P27	- 146621.116	- 52756.209

求 点 名	N O	28	P28	29	P29	30	P30		
ALH T1.T2		260-22-50	181-47-30	1-45- 2	255-26-40	345-26-48	255-32-41		
SIN T1.T2		-0.985939	-0.031265	+0.030548	-0.967904	-0.251281	-0.968343		
COS T1.T2		-0.167103	-0.999511	+0.999533	-0.251319	+0.967914	-0.249624		
コウカク = T		78-35-20		106-18-22		89-54- 7			
COSEC T	+	1.020166		+ 1.041910		+ 1.000001			
		X	Y						
1 C101	-	146691.247	- 52907.721	14-10	- 146738.842	- 52927.692	C136	- 146743.660	- 52895.026
2 11-42	-	146689.994	- 52926.198	C50	- 146726.546	- 52899.469	13-7	- 146728.426	- 52894.745
X1-2.Y2-1	-	1.253	- 18.477		- 12.296	+ 28.223		- 15.234	+ 0.281
X1-2*SI1.2	+	1.2354	+ 0.0392		- 0.3756	+ 11.9014		+ 3.8280	+ 14.7517
Y2-1*CO1.2	+	3.0876	+ 18.4680		+ 28.2098	- 7.0930		+ 0.2720	- 0.0701
COSEC*S1.2	+	4.4101	+ 18.8804		+ 29.0008	+ 5.0099		+ 4.1000	+ 14.6816
キヨリ S1.S2		18.880	4.410		5.010	29.001		14.682	4.100
		X	Y						
1 C101	-	146691.247	- 52907.721	14-10	- 146738.842	- 52927.692	C136	- 146743.660	- 52895.026
DX DY	-	3.155	- 18.615		+ 5.008	+ 0.153		+ 14.211	- 3.689
3 P28	-	146694.402	- 52926.336	P29	- 146733.834	- 52927.539	P30	- 146729.449	- 52898.715

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	31	P31	32	P32	33	P33
ALH T1.T2	80- 0- 4	336-18-15		75-26-41	343-15- 5	172-30-59	132-56- 3
SIN T1.T2	+0.984811	-0.401881		+0.967906	-0.288173	+0.130243	+0.732137
COS T1.T2	+0.173629	+0.915692		+0.251314	+0.957578	-0.991482	-0.681158
コウカク = T	103-41-49			92-11-36		39-34-56	
COSEC T	+ 1.029271			+ 1.000733		+ 1.569403	
	X	Y					
1 K.61	- 146679.032	- 52831.591	C50	- 146726.546	- 52899.469	C134	- 146722.380
2 C130	- 146689.997	- 52826.241	13-9	- 146711.438	- 52821.010	K.69	- 146730.090
X1-2.Y2-1	+ 10.965	+ 5.350		- 15.108	+ 78.459		+ 7.710
X1-2*SI1.2	+ 10.7985	- 4.4066		- 14.6231	+ 4.3537		+ 1.0042
Y2-1*CO1.2	+ 0.9289	+ 4.8990		+ 19.7178	+ 75.1306		+ 1.2017
COSEC*S1.2	+ 12.0706	+ 0.5067		+ 5.0985	+ 79.5426		+ 3.4619
キヨリ S1.S2	0.507	12.071		79.543	5.098		10.155
	X	Y					
1 K.61	- 146679.032	- 52831.591	C50	- 146726.546	- 52899.469	C134	- 146722.380
DX DY	+ 0.088	+ 0.499		+ 19.990	+ 76.990		- 10.069
3 P31	- 146678.944	- 52831.092	P32	- 146706.556	- 52822.479	P33	- 146732.449

求 点 名	N O	34	P34	35	P35	36	P36
ALH T1.T2	245- 5-45	181-44-25		1-45-14	225-30-34	80-31-18	1-48-51
SIN T1.T2	-0.907013	-0.030369		+0.030606	-0.713366	+0.986348	+0.031658
COS T1.T2	-0.421102	-0.999539		+0.999532	-0.700792	+0.164675	+0.999499
コウカク = T	63-21-20			136-14-40		78-42-27	
COSEC T	+ 1.118810			+ 1.445958		+ 1.019742	
	X	Y					
1 C141	- 146786.514	- 52889.412	C3	- 146475.209	- 52925.616	C53	- 146483.100
2 14-17	- 146800.125	- 52929.554	K.225	- 146397.318	- 52914.414	17-10	- 146481.652
X1-2.Y2-1	+ 13.611	- 40.142		- 77.891	+ 11.202		- 1.448
X1-2*SI1.2	- 12.3454	- 0.4134		- 2.3840	+ 55.5648		- 1.4282
Y2-1*CO1.2	+ 16.9039	+ 40.1235		+ 11.1968	- 7.8503		+ 6.7591
COSEC*S1.2	+ 5.1001	+ 44.4281		+ 12.7429	+ 68.9932		+ 5.4361
キヨリ S1.S2	44.428	5.100		68.993	12.743		41.788
	X	Y					
1 C141	- 146786.514	- 52889.412	C3	- 146475.209	- 52925.616	C53	- 146483.100
DX DY	- 18.709	- 40.297		+ 68.961	+ 2.112		+ 6.881
3 P34	- 146805.223	- 52929.709	P35	- 146406.248	- 52923.504	P36	- 146476.219

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	37	P37	38	P38	39	P39		
ALH T1.T2		80-31-18	1-45-41	80-31-18	1-50-40	80-23-10	1-44-32		
SIN T1.T2		+0.986348	+0.030737	+0.986348	+0.032186	+0.985956	+0.030403		
COS T1.T2		+0.164675	+0.999528	+0.164675	+0.999482	+0.167008	+0.999538		
コウカク = T		78-45-37		78-40-38		78-38-38			
COSEC T	+	1.019555		1.019850		1.019969			
		X	Y						
1 C55	-	146566.661	- 52975.439	C57	- 146660.414	- 52978.310	C161	- 146696.980	- 52941.552
2 20-11	-	146565.202	- 52934.363	23-18	- 146658.957	- 52937.242	D-8	- 146699.341	- 52938.470
X1-2.Y2-1	-	1.459	+ 41.076		- 1.457	+ 41.068		+ 2.361	+ 3.082
X1-2*SI1.2	-	1.4391	- 0.0448		- 1.4371	- 0.0469		+ 2.3278	+ 0.0718
Y2-1*CO1.2	+	6.7642	+ 41.0566		+ 6.7629	+ 41.0467		+ 0.5147	+ 3.0806
COSEC*S1.2	+	5.4292	+ 41.8137		+ 5.4315	+ 41.8137		+ 2.8993	+ 3.2153
キヨリ S1.S2		41.814	5.429		41.814	5.431		3.215	2.899
		X	Y						
1 C55	-	146566.661	- 52975.439	C57	- 146660.414	- 52978.310	C161	- 146696.980	- 52941.552
DX DY	+	6.886	+ 41.243		+ 6.886	+ 41.243		+ 0.537	+ 3.170
3 P37	-	146559.775	- 52934.196	P38	- 146653.528	- 52937.067	P39	- 146696.443	- 52938.382

求 点 名	N O	40	P40	41	P41	42	P42		
ALH T1.T2		344-51-18	243-59- 1	1-45-14	244-32-47	260-32-38	181-45-14		
SIN T1.T2		-0.261263	-0.898669	+0.030606	-0.902934	-0.986412	-0.030606		
COS T1.T2		+0.965268	-0.438628	+0.999532	-0.429780	-0.164292	-0.999532		
コウカク = T		100-52-17		117-12-27		78-47-24			
COSEC T	+	1.018275		1.124408		1.019450			
		X	Y						
1 JR101	-	146845.159	- 53012.194	C53	- 146483.100	- 52972.880	15-26	- 146479.165	- 52967.467
2 C9	-	146811.182	- 52956.208	K.220	- 146446.367	- 52969.940	P41	- 146447.244	- 52971.782
X1-2.Y2-1	-	33.977	+ 55.986		- 36.733	+ 2.940		- 31.921	- 4.315
X1-2*SI1.2	+	8.8769	+ 30.5341		- 1.1243	+ 33.1675		+ 31.4872	+ 0.9770
Y2-1*CO1.2	+	54.0415	- 24.5570		+ 2.9386	- 1.2636		+ 0.7089	+ 4.3130
COSEC*S1.2	+	64.0682	+ 6.0863		+ 2.0401	+ 35.8730		+ 32.8224	+ 5.3929
キヨリ S1.S2		6.086	64.068		35.873	2.040		5.393	32.822
		X	Y						
1 JR101	-	146845.159	- 53012.194	C53	- 146483.100	- 52972.880	15-26	- 146479.165	- 52967.467
DX DY	+	5.875	- 1.590		+ 35.856	+ 1.098		- 0.886	- 5.320
3 P40	-	146839.284	- 53013.784	P41	- 146447.244	- 52971.782	P42	- 146480.051	- 52972.787

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	43	P43	44	P44	45	P45		
ALH T1.T2		1-45-17	260-39-47	80-31-18	1-49- 9	260-30-44	181-45-12		
SIN T1.T2		+0.030621	-0.986751	+0.986348	+0.031745	-0.986321	-0.030597		
COS T1.T2		+0.999531	-0.162240	+0.164675	+0.999496	-0.164837	-0.999532		
コウカク = T		101- 5-30		78-42- 9		78-45-32			
COSEC T	+	1.019035		+ 1.019760		+ 1.019560			
		X	Y						
1 C54	-	146524.880	- 52974.160	C59	- 146545.546	- 53097.942	17-13	- 146562.722	- 52970.003
2 17-8	-	146485.363	- 52968.098	19-11	- 146530.844	- 52977.339	C54	- 146524.880	- 52974.160
X1-2.Y2-1	-	39.517	+ 6.062		- 14.702	+ 120.603		- 37.842	- 4.157
X1-2*SI1.2	-	1.2100	+ 38.9935		- 14.5013	- 0.4667		+ 37.3244	+ 1.1578
Y2-1*CO1.2	+	6.0592	- 0.9835		+ 19.8603	+ 120.5422		+ 0.6852	+ 4.1551
COSEC*S1.2	+	4.9414	+ 38.7335		+ 5.4649	+ 122.4482		+ 38.7530	+ 5.4168
※ヨリ S1.S2		38.733	4.941		122.448	5.465		5.417	38.753
		X	Y						
1 C54	-	146524.880	- 52974.160	C59	- 146545.546	- 53097.942	17-13	- 146562.722	- 52970.003
DX DY	+	38.715	+ 1.186		+ 20.164	+ 120.776		- 0.893	- 5.343
3 P43	-	146486.165	- 52972.974	P44	- 146525.382	- 52977.166	P45	- 146563.615	- 52975.346

求 点 名	N O	46	P46	47	P47	48	P48		
ALH T1.T2		1-45-17	260-30-44	80-31-17	1-44-12	260-26-53	181-45-12		
SIN T1.T2		+0.030621	-0.986321	+0.986347	+0.030306	-0.986136	-0.030597		
COS T1.T2		+0.999531	-0.164837	+0.164679	+0.999541	-0.165942	-0.999532		
コウカク = T		101-14-33		78-47- 5		78-41-41			
COSEC T	+	1.019565		+ 1.019468		+ 1.019787			
		X	Y						
1 C56	-	146613.537	- 52976.875	C61	- 146631.358	- 53083.615	20-14	- 146656.458	- 52972.878
2 20-9	-	146568.902	- 52970.606	22-11	- 146619.454	- 52980.058	C56	- 146613.537	- 52976.875
X1-2.Y2-1	-	44.635	+ 6.269		- 11.904	+ 103.557		- 42.921	- 3.997
X1-2*SI1.2	-	1.3668	+ 44.0244		- 11.7415	- 0.3608		+ 42.3259	+ 1.3132
Y2-1*CO1.2	+	6.2661	- 1.0334		+ 17.0537	+ 103.5094		+ 0.6633	+ 3.9951
COSEC*S1.2	+	4.9951	+ 43.8322		+ 5.4156	+ 105.1568		+ 43.8398	+ 5.4134
※ヨリ S1.S2		43.832	4.995		105.157	5.416		5.413	43.840
		X	Y						
1 C56	-	146613.537	- 52976.875	C61	- 146631.358	- 53083.615	20-14	- 146656.458	- 52972.878
DX DY	+	43.811	+ 1.342		+ 17.317	+ 103.721		- 0.898	- 5.338
3 P46	-	146569.726	- 52975.533	P47	- 146614.041	- 52979.894	P48	- 146657.356	- 52978.216

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	49	P49	50	P50	51	P51		
ALH T1.T2		7-51-23	269-51-47	7-56-10	260-31-19	0-22-46	260-31-18		
SIN T1.T2		+0.136691	-0.999997	+0.138069	-0.986349	+0.006623	-0.986348		
COS T1.T2		+0.990614	-0.002390	+0.990423	-0.164670	+0.999978	-0.164675		
コウカク = T		97-59-36		107-24-51		99-51-28			
COSEC T	+	1.009811		+ 1.048035		+ 1.014985			
		X	Y						
1 C58	-	146502.999	- 53092.072	18-17	- 146507.435	- 53089.677	19-16	- 146550.122	- 53094.154
2 K.211	-	146474.480	- 53087.025	C53	- 146483.100	- 52972.880	P44	- 146525.382	- 52977.166
X1-2.Y2-1	-	28.519	+ 5.047		- 24.335	+ 116.797		- 24.740	+ 116.988
X1-2*SI1.2	-	3.8983	+ 28.5189		- 3.3599	+ 24.0028		- 0.1638	+ 24.4022
Y2-1*CO1.2	+	4.9996	- 0.0121		+ 115.6784	- 19.2329		+ 116.9854	- 19.2650
COSEC*S1.2	+	1.1122	+ 28.7865		+ 117.7137	+ 4.9990		+ 118.5722	+ 5.2143
キヨリ S1.S2		28.787	1.112		4.999	117.714		5.214	118.572
		X	Y						
1 C58	-	146502.999	- 53092.072	18-17	- 146507.435	- 53089.677	19-16	- 146550.122	- 53094.154
DX DY	+	28.517	+ 3.935		+ 4.951	+ 0.690		+ 5.214	+ 0.035
3 P49	-	146474.482	- 53088.137	P50	- 146502.484	- 53088.987	P51	- 146544.908	- 53094.119

求 点 名	N O	52	P52	53	P53	54	P54		
ALH T1.T2		80-31-14	358-13-23	350-33-41	260-31-18	80-31-20	350-51-52		
SIN T1.T2		+0.986345	-0.031009	-0.163991	-0.986348	+0.986350	-0.158771		
COS T1.T2		+0.164694	+0.999519	+0.986462	-0.164675	+0.164665	+0.987315		
コウカク = T		82-17-51		90- 2-23		89-39-28			
COSEC T	+	1.009105		+ 1.000000		+ 1.000018			
		X	Y						
1 C64	-	146548.974	- 53118.472	21-16	- 146590.586	- 53087.389	C145	- 146592.250	- 53128.712
2 26-10	-	146551.076	- 53100.054	C55	- 146566.661	- 52975.439	27-10	- 146590.570	- 53093.488
X1-2.Y2-1	+	2.102	+ 18.418		- 23.925	+ 111.950		- 1.680	+ 35.224
X1-2*SI1.2	+	2.0733	- 0.0652		+ 3.9235	+ 23.5984		- 1.6571	+ 0.2667
Y2-1*CO1.2	+	3.0333	+ 18.4091		+ 110.4344	- 18.4353		+ 5.8002	+ 34.7772
COSEC*S1.2	+	5.1531	+ 18.5110		+ 114.3579	+ 5.1631		+ 4.1432	+ 35.0446
キヨリ S1.S2		18.511	5.153		5.163	114.358		35.045	4.143
		X	Y						
1 C64	-	146548.974	- 53118.472	21-16	- 146590.586	- 53087.389	C145	- 146592.250	- 53128.712
DX DY	+	3.049	+ 18.258		+ 5.093	- 0.847		+ 5.771	+ 34.567
3 P52	-	146545.925	- 53100.214	P53	- 146585.493	- 53088.236	P54	- 146586.479	- 53094.145

* * * * * 2 直線 の 交点 計算書 * * * * *

求点名	NO	55	P55	56	P56	57	P57				
ALH T1.T2		350-30-27	260-31-17	86-29-13	350-34-3	170-31-18	80-33-20				
SIN T1.T2		-0.164918	-0.986347	+0.998121	-0.163886	+0.164675	+0.986445				
COS T1.T2		+0.986307	-0.164679	+0.061276	+0.986479	-0.986348	+0.164091				
コウカク = T		89-59-10		95-55-10		89-57-58					
COSEC T	+	1.000000		+ 1.005361		+ 1.000000					
		X	Y								
1 22-8	-	146635.916	53079.826	C146	-	146634.777	53139.305	C61	-	146631.358	53083.615
2 P47	-	146614.041	52979.894	28-10	-	146635.505	53085.973	28-12	-	146674.674	53081.501
X1-2.Y2-1	+	21.875	99.932		+	0.728	53.332		+	43.316	2.114
X1-2*SI1.2	+	3.6076	21.5763		+	0.7266	0.1193		+	7.1330	42.7289
Y2-1*CO1.2	+	98.5637	16.4567		+	3.2680	52.6109		-	2.0851	0.3469
COSEC*S1.2	+	102.1712	5.1196		+	4.0160	52.7730		+	5.0479	43.0758
サヨリ S1.S2		5.120	102.171		52.773	4.016				43.076	5.048
		X	Y								
1 22-8	-	146635.916	53079.826	C146	-	146634.777	53139.305	C61	-	146631.358	53083.615
DX DY	+	5.050	0.844		+	3.234	52.674		-	42.488	7.094
3 P55	-	146630.866	53080.670	P56	-	146631.543	53086.631	P57	-	146673.846	53076.521

求点名	NO	58	P58	59	P59	60	P60				
ALH T1.T2		260-31-19	170-28-28	80-32-19	350-31-19	260-28-17	170-30-8				
SIN T1.T2		-0.986349	+0.165488	+0.986397	-0.164670	-0.986203	+0.165009				
COS T1.T2		-0.164670	-0.986212	+0.164383	+0.986349	-0.165540	-0.986292				
コウカク = T		90-2-51		90-1-0		89-58-9					
COSEC T	+	1.000000		+ 1.000000		+ 1.000000					
		X	Y								
1 C57	-	146660.414	52978.310	29-14	-	146680.579	53080.497	C158	-	146716.652	53058.841
2 22-15	-	146671.176	53073.943	C69	-	146718.372	53069.088	23-22	-	146713.841	53066.800
X1-2.Y2-1	+	10.762	95.633		+	37.793	11.409		-	2.811	7.959
X1-2*SI1.2	+	10.6151	1.7810		+	37.2789	6.2234		+	2.7722	0.4638
Y2-1*CO1.2	+	15.7479	94.3144		+	1.8754	11.2533		+	1.3175	7.8499
COSEC*S1.2	+	5.1328	96.0954		+	39.1543	5.0299		+	4.0898	7.3861
サヨリ S1.S2		96.095	5.133		5.030	39.154				7.386	4.090
		X	Y								
1 C57	-	146660.414	52978.310	29-14	-	146680.579	53080.497	C158	-	146716.652	53058.841
DX DY	-	15.824	94.783		+	0.827	4.962		-	1.223	7.284
3 P58	-	146676.238	53073.093	P59	-	146679.752	53075.535	P60	-	146717.875	53066.125

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	61	P61	62	P62	63	P63		
ALH T1.T2		170-29- 4	80-28-38	13- 6- 1	290-23-24	12-25-54	282- 8-56		
SIN T1.T2		+0.165315	+0.986220	+0.226656	-0.937343	+0.215275	-0.977604		
COS T1.T2		-0.986241	+0.165440	+0.973975	+0.348408	+0.976553	+0.210453		
コウカク = T		90- 0-26		82-42-37		90-16-58			
COSEC T	+	1.000000		+ 1.008149		+ 1.000012			
		X	Y						
1 29-16	-	146714.845	- 53072.736	C63	- 146535.827	- 53179.749	C63-1	- 146543.879	- 53142.220
2 C157	-	146723.704	- 53100.873	K.201	- 146460.448	- 53153.021	K.204	- 146530.687	- 53118.006
X1-2.Y2-1	+	8.859	- 28.137		- 75.379	+ 26.728		- 13.192	+ 24.214
X1-2*SI1.2	+	1.4645	+ 8.7369		- 17.0851	+ 70.6560		- 2.8399	+ 12.8966
Y2-1*CO1.2	+	27.7499	- 4.6550		+ 26.0324	+ 9.3123		+ 23.6463	+ 5.0959
COSEC*S1.2	+	29.2144	+ 4.0819		+ 9.0202	+ 80.6199		+ 20.8066	+ 17.9927
サヨリ S1.S2		4.082	29.214		80.620	9.020		17.993	20.807
		X	Y						
1 29-16	-	146714.845	- 53072.736	C63	- 146535.827	- 53179.749	C63-1	- 146543.879	- 53142.220
DX DY	-	4.026	+ 0.675		+ 78.522	+ 18.273		+ 17.571	+ 3.873
3 P61	-	146718.871	- 53072.061	P62	- 146457.305	- 53161.476	P63	- 146526.308	- 53138.347

求 点 名	N O	64	P64	65	P65	66	P66		
ALH T1.T2		282- 8-17	192-25-54	11-43-16	286-53-53	333-20-22	266-29-13		
SIN T1.T2		-0.977644	-0.215275	+0.203148	-0.956823	-0.448704	-0.998121		
COS T1.T2		+0.210268	-0.976553	+0.979148	+0.290670	+0.893681	-0.061276		
コウカク = T		89-42-23		84-49-23		66-51- 9			
COSEC T	+	1.000013		+ 1.004096		+ 1.087552			
		X	Y						
1 25-1-10	-	146541.915	- 53137.246	K.170	- 146584.310	- 53161.636	28-7	- 146639.042	- 53134.938
2 P63	-	146526.308	- 53138.347	C144	- 146585.353	- 53151.257	P56	- 146631.543	- 53086.631
X1-2.Y2-1	-	15.607	- 1.101		+ 1.043	+ 10.379		- 7.499	+ 48.307
X1-2*SI1.2	+	15.2581	+ 3.3598		+ 0.2119	- 0.9980		+ 3.3648	+ 7.4849
Y2-1*CO1.2	-	0.2315	+ 1.0752		+ 10.1626	+ 3.0169		+ 43.1710	- 2.9601
COSEC*S1.2	+	15.0268	+ 4.4350		+ 10.4170	+ 2.0272		+ 50.6102	+ 4.9210
サヨリ S1.S2		4.435	15.027		2.027	10.417		4.921	50.610
		X	Y						
1 25-1-10	-	146541.915	- 53137.246	K.170	- 146584.310	- 53161.636	28-7	- 146639.042	- 53134.938
DX DY	+	0.933	- 4.336		+ 1.985	+ 0.412		+ 4.398	- 2.208
3 P64	-	146540.982	- 53141.582	P65	- 146582.325	- 53161.224	P66	- 146634.644	- 53137.146

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名	N O	67	P67	68	P68	69	P69		
ALH T1.T2		153-20-45	88-11-35	334-38-10	244-37-59	334-37-39	235-17-33		
SIN T1.T2		+0.448604	+0.999503	-0.428366	-0.903583	-0.428502	-0.822070		
COS T1.T2		-0.893731	+0.031532	+0.903605	-0.428414	+0.903541	-0.569387		
コウカク = T		65- 9-10		90- 0-11		99-20- 6			
COSEC T	+	1.102012		+ 1.000000		+ 1.013421			
		X	Y						
1 K.163	-	146625.458	-	53143.983	29-10	-	146698.413	-	53173.198
2 K.160	-	146649.655	-	53134.285	NC68	-	146692.308	-	53174.783
X1-2.Y2-1	+	24.197	+	9.698		-	6.105	-	1.585
X1-2*SI1.2	+	10.8549	+	24.1850		+	2.6160	+	5.0187
Y2-1*CO1.2	-	8.6674	+	0.3058		-	1.4321	+	0.9025
COSEC*S1.2	+	2.4106	+	26.9891		+	1.1998	+	6.0007
キヨリ S1.S2		26.989		2.411			6.001		1.200
		X	Y						
1 K.163	-	146625.458	-	53143.983	29-10	-	146698.413	-	53173.198
DX DY	-	24.121	+	12.107		+	5.422	-	2.571
3 P67	-	146649.579	-	53131.876	P68	-	146692.991	-	53175.769

求 点 名	N O	70	P70	71	P71	72	P72		
ALH T1.T2		243-40- 5	154-51-16	316-11-12	249-35-32	260-24-52	181-45-13		
SIN T1.T2		-0.896239	+0.424919	-0.692311	-0.937235	-0.986038	-0.030602		
COS T1.T2		-0.443571	-0.905231	+0.721599	-0.348699	-0.166520	-0.999532		
コウカク = T		88-48-49		66-35-40		78-39-39			
COSEC T	+	1.000214		+ 1.089662		+ 1.019908			
		X	Y						
1 K.148	-	146719.644	-	53161.874	K.145	-	146697.041	-	52924.848
2 C149-1	-	146706.389	-	53169.417	C152	-	146695.423	-	52932.360
X1-2.Y2-1	-	13.255	-	7.543		-	1.618	-	7.512
X1-2*SI1.2	+	11.8797	-	5.6323		+	1.5954	+	0.0495
Y2-1*CO1.2	+	3.3459	+	6.8282		+	1.2509	+	7.5085
COSEC*S1.2	+	15.2288	+	1.1961		+	2.9030	+	7.7085
キヨリ S1.S2		1.196		15.229			7.708		2.903
		X	Y						
1 K.148	-	146719.644	-	53161.874	K.145	-	146697.041	-	52924.848
DX DY	-	0.531	-	1.072		+	1.284	-	7.600
3 P70	-	146720.175	-	53162.946	P71	-	146698.325	-	52932.448

* * * * * 2 直 線 の 交 点 計 算 書 * * * * *

求 点 名		N O	1	P73
ALH T1.T2		260-17-54		170-31-19
SIN T1.T2		-0.985699		+0.164670
COS T1.T2		-0.168518		-0.986349
コウカク = T		89-46-35		
COSEC T	+	1.000008		
		X		Y
1 K.138	-	146718.130	-	53055.278
2 P59	-	146679.752	-	53075.535
X1-2.Y2-1	-	38.378	-	20.257
X1-2*SI1.2	+	37.8291	-	6.3197
Y2-1*CO1.2	+	3.4137	+	19.9805
COSEC*S1.2	+	41.2431	+	13.6609
キヨリ S1.S2		13.661		41.243
		X		Y
1 K.138	-	146718.130	-	53055.278
DX DY	-	2.302	-	13.466
3 P73	-	146720.432	-	53068.744