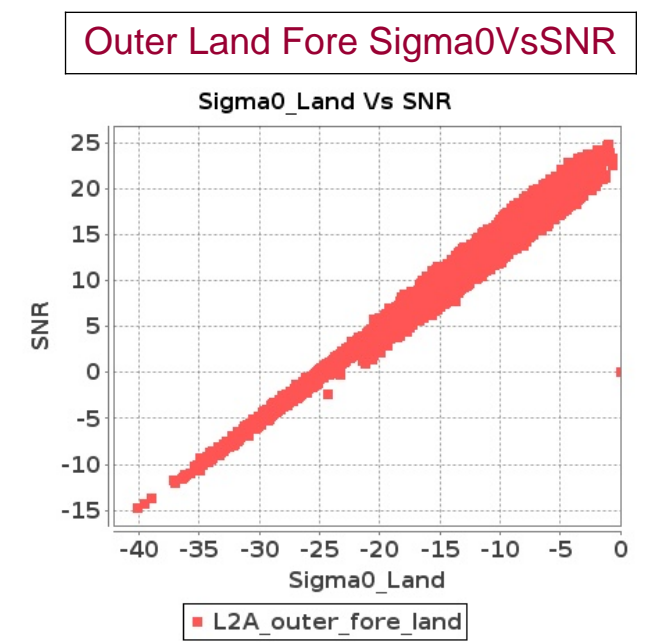
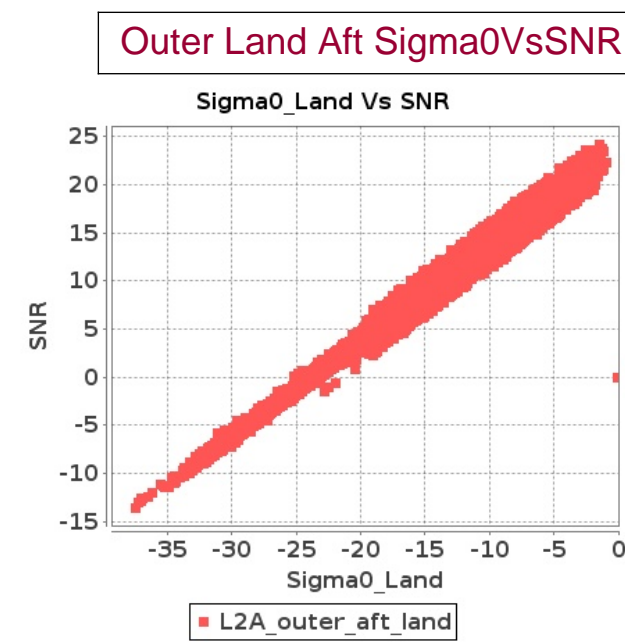
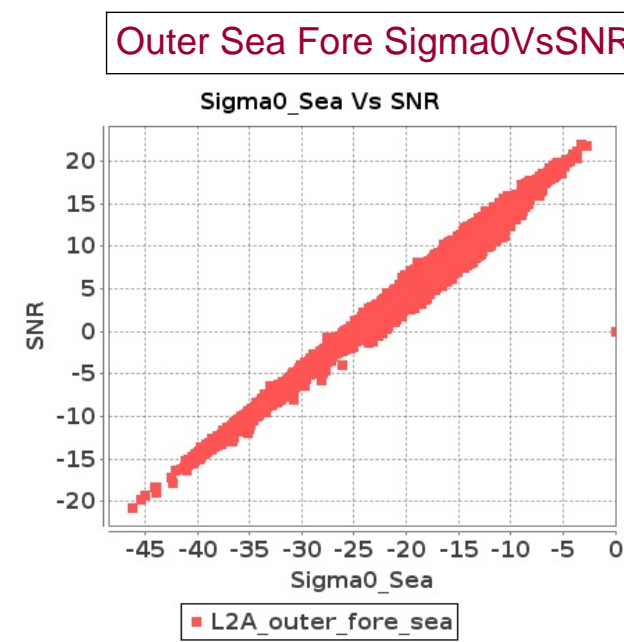
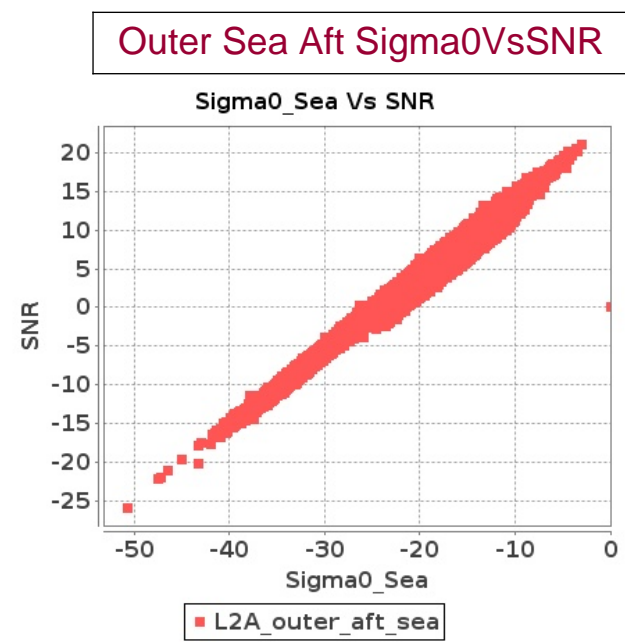
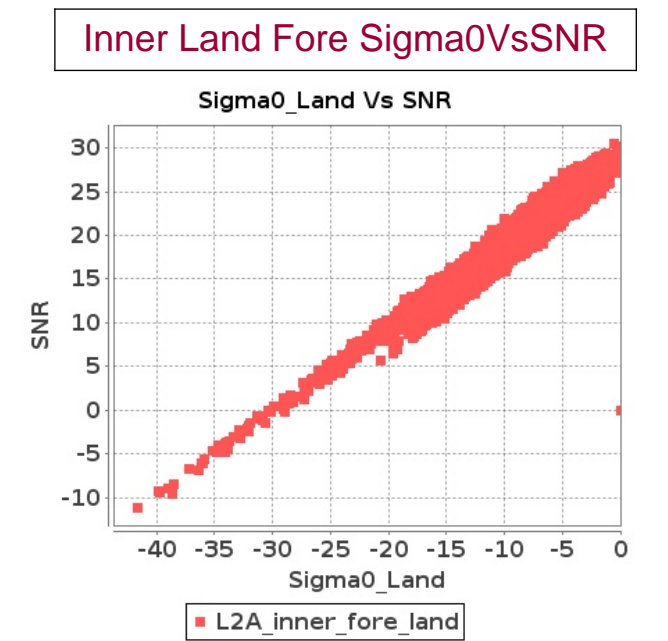
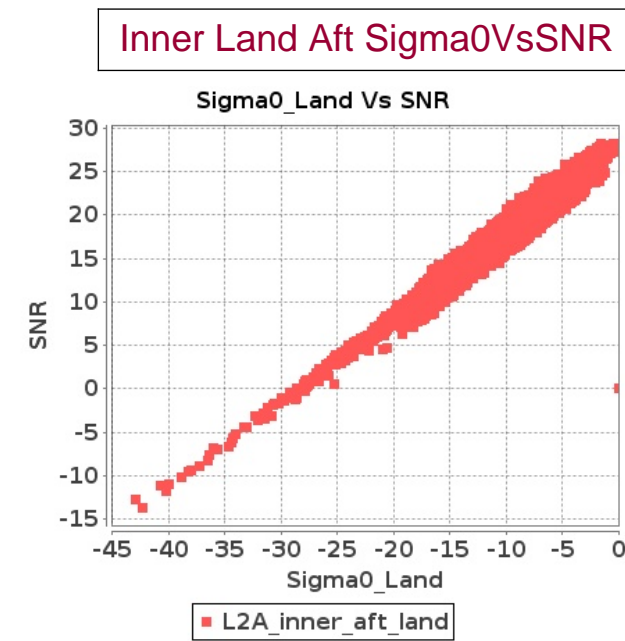
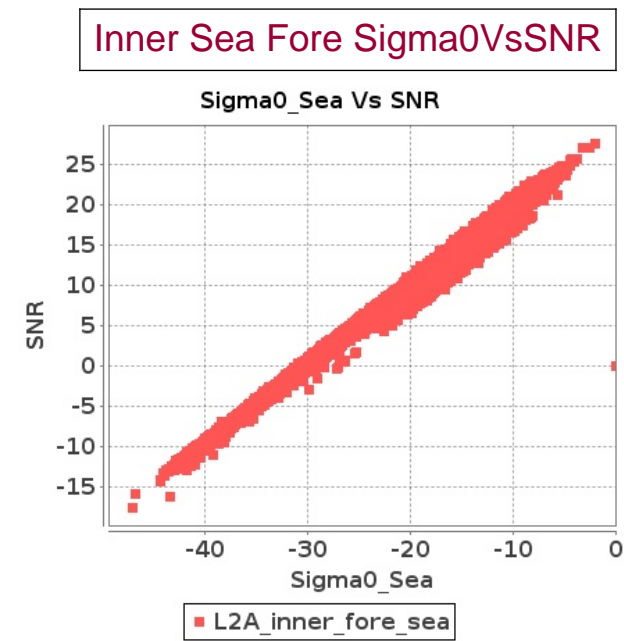
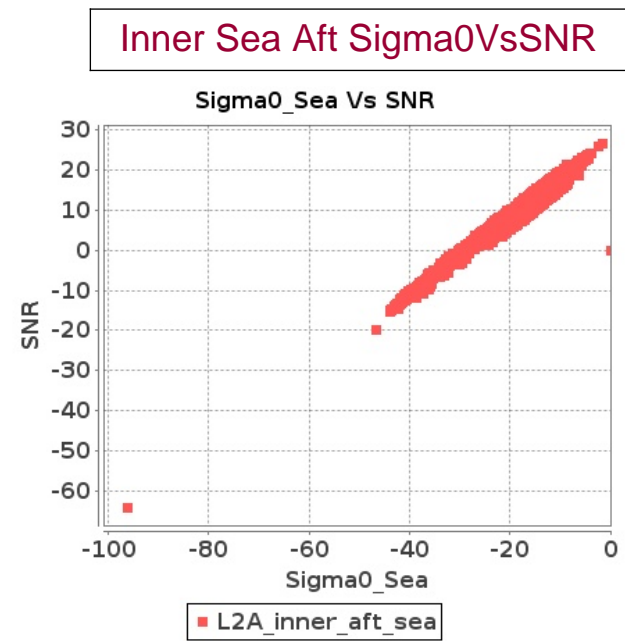


# SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 28-APR-2017 To 29-APR-2017



# SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 28-APR-2017 To 29-APR-2017

| Sr No | Start Orbit | End Orbit | Dir. | Ver. | SNR       |        |            |            |        |            |           |        |            |            |        |            | Sigma0    |        |            |            |        |            |           |        |            |            |        |            |
|-------|-------------|-----------|------|------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|
|       |             |           |      |      | Inner Aft |        |            | Inner Fore |        |            | Outer Aft |        |            | Outer Fore |        |            | Inner Aft |        |            | Inner Fore |        |            | Outer Aft |        |            | Outer Fore |        |            |
|       |             |           |      |      | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) |
| 1     | 3100        | 3101      | SN   | 1    | 0.0       | 40.411 | 0.825      | 0.0        | 40.736 | 0.775      | 0.0       | 41.783 | 0.556      | 0.0        | 35.118 | 0.529      | 0.0       | 43.621 | 0.649      | 0.0        | 42.981 | 0.623      | 0.0       | 37.204 | 0.415      | 0.0        | 35.85  | 0.403      |
| 2     | 3100        | 3101      | SN   | 1    | 0.0       | 40.411 | 0.825      | 0.0        | 40.736 | 0.781      | 0.0       | 41.783 | 0.556      | 0.0        | 35.118 | 0.535      | 0.0       | 43.621 | 0.649      | 0.0        | 42.981 | 0.63       | 0.0       | 37.204 | 0.415      | 0.0        | 35.85  | 0.407      |
| 3     | 3100        | 3101      | SN   | 1    | 0.0       | 44.64  | 3.148      | 0.0        | 43.427 | 2.799      | 0.0       | 45.338 | 2.05       | 0.0        | 47.603 | 1.895      | 0.0       | 42.647 | 2.468      | 0.0        | 46.246 | 2.356      | 0.0       | 47.09  | 1.649      | 0.0        | 44.434 | 1.486      |
| 4     | 3100        | 3101      | SN   | 1    | 0.0       | 40.411 | 0.877      | 0.0        | 40.736 | 0.823      | 0.0       | 41.783 | 0.576      | 0.0        | 35.118 | 0.564      | 0.0       | 43.621 | 0.692      | 0.0        | 42.981 | 0.664      | 0.0       | 37.204 | 0.431      | 0.0        | 35.85  | 0.43       |
| 5     | 3100        | 3101      | SN   | 1    | 0.0       | 44.64  | 2.977      | 0.0        | 43.427 | 2.658      | 0.0       | 45.338 | 2.016      | 0.0        | 47.603 | 1.835      | 0.0       | 42.647 | 2.319      | 0.0        | 46.246 | 2.237      | 0.0       | 47.09  | 1.611      | 0.0        | 44.434 | 1.411      |
| 6     | 3100        | 3101      | SN   | 1    | 0.0       | 44.64  | 2.976      | 0.0        | 43.427 | 2.629      | 0.0       | 45.338 | 2.023      | 0.0        | 47.603 | 1.814      | 0.0       | 42.647 | 2.318      | 0.0        | 46.246 | 2.213      | 0.0       | 47.09  | 1.611      | 0.0        | 44.434 | 1.394      |
| 7     | 3101        | 3102      | SN   | 1    | 0.0       | 45.316 | 7.18       | 0.0        | 51.207 | 7.255      | 0.0       | 49.233 | 4.741      | 0.0        | 49.153 | 4.865      | 0.0       | 47.592 | 6.906      | 0.0        | 52.166 | 6.834      | 0.0       | 51.142 | 4.422      | 0.0        | 47.197 | 4.469      |
| 8     | 3101        | 3102      | SN   | 1    | 0.0       | 48.444 | 2.232      | 0.0        | 43.311 | 2.094      | 0.0       | 50.004 | 1.38       | 0.0        | 45.107 | 1.5        | 0.0       | 46.765 | 2.097      | 0.0        | 43.914 | 2.018      | 0.0       | 48.712 | 1.362      | 0.0        | 42.536 | 1.373      |
| 9     | 3101        | 3102      | SN   | 1    | 0.0       | 48.444 | 2.232      | 0.0        | 43.311 | 2.07       | 0.0       | 50.004 | 1.38       | 0.0        | 45.107 | 1.483      | 0.0       | 46.765 | 2.097      | 0.0        | 43.914 | 1.996      | 0.0       | 48.712 | 1.364      | 0.0        | 42.536 | 1.357      |
| 10    | 3101        | 3102      | NS   | 1    | 0.0       | 48.816 | 2.87       | 0.0        | 49.292 | 2.575      | 0.0       | 40.917 | 1.889      | 0.0        | 43.915 | 1.833      | 0.0       | 47.017 | 2.721      | 0.0        | 51.185 | 2.424      | 0.0       | 40.639 | 1.864      | 0.0        | 47.349 | 1.776      |
| 11    | 3101        | 3102      | SN   | 1    | 0.0       | 45.316 | 7.33       | 0.0        | 51.207 | 7.323      | 0.0       | 49.233 | 4.845      | 0.0        | 49.153 | 4.917      | 0.0       | 47.592 | 7.051      | 0.0        | 52.166 | 6.898      | 0.0       | 51.142 | 4.519      | 0.0        | 47.197 | 4.517      |
| 12    | 3101        | 3102      | SN   | 1    | 0.0       | 45.316 | 7.177      | 0.0        | 51.207 | 7.174      | 0.0       | 49.233 | 4.741      | 0.0        | 49.153 | 4.816      | 0.0       | 47.592 | 6.904      | 0.0        | 52.166 | 6.758      | 0.0       | 51.142 | 4.422      | 0.0        | 47.197 | 4.425      |
| 13    | 3101        | 3102      | NS   | 1    | 0.0       | 58.378 | 9.187      | 0.0        | 54.263 | 8.365      | 0.0       | 47.959 | 6.236      | 0.0        | 49.623 | 6.425      | 0.0       | 55.557 | 8.862      | 0.0        | 52.247 | 8.273      | 0.0       | 44.192 | 6.151      | 0.0        | 50.627 | 6.289      |
| 14    | 3101        | 3102      | NS   | 1    | 0.0       | 57.838 | 8.978      | 0.0        | 52.067 | 8.464      | 0.0       | 44.161 | 6.294      | 0.0        | 49.06  | 6.004      | 0.0       | 55.436 | 8.847      | 0.0        | 52.444 | 8.25       | 0.0       | 44.746 | 6.081      | 0.0        | 50.765 | 5.94       |
| 15    | 3101        | 3102      | NS   | 1    | 0.0       | 48.492 | 2.753      | 0.0        | 49.908 | 2.494      | 0.0       | 44.021 | 1.826      | 0.0        | 46.75  | 1.872      | 0.0       | 48.878 | 2.638      | 0.0        | 48.037 | 2.394      | 0.0       | 41.712 | 1.707      | 0.0        | 43.121 | 1.853      |
| 16    | 3101        | 3102      | SN   | 1    | 0.0       | 48.444 | 2.281      | 0.0        | 43.311 | 2.116      | 0.0       | 50.004 | 1.41       | 0.0        | 45.107 | 1.514      | 0.0       | 46.765 | 2.143      | 0.0        | 43.914 | 2.04       | 0.0       | 48.712 | 1.394      | 0.0        | 42.536 | 1.387      |
| 17    | 3102        | 3103      | NS   | 1    | 0.0       | 43.386 | 1.9        | 0.0        | 52.296 | 1.394      | 0.0       | 37.705 | 1.255      | 0.0        | 37.423 | 1.09       | 0.0       | 42.476 | 1.66       | 0.0        | 51.158 | 1.15       | 0.0       | 37.295 | 1.036      | 0.0        | 35.251 | 0.848      |
| 18    | 3102        | 3103      | NS   | 1    | 0.0       | 44.312 | 6.145      | 0.0        | 47.063 | 4.497      | 0.0       | 39.818 | 3.961      | 0.0        | 47.024 | 3.522      | 0.0       | 45.09  | 5.446      | 0.0        | 46.48  | 3.736      | 0.0       | 41.147 | 3.549      | 0.0        | 43.741 | 2.959      |
| 19    | 3102        | 3103      | SN   | 1    | 0.0       | 42.47  | 2.287      | 0.0        | 49.741 | 1.866      | 0.0       | 37.785 | 1.675      | 0.0        | 39.402 | 1.848      | 0.0       | 38.445 | 2.038      | 0.0        | 47.246 | 1.699      | 0.0       | 37.479 | 1.524      | 0.0        | 38.203 | 1.655      |
| 20    | 3102        | 3103      | NS   | 1    | 0.0       | 52.001 | 6.247      | 0.0        | 55.147 | 4.619      | 0.0       | 39.792 | 4.011      | 0.0        | 44.925 | 3.565      | 0.0       | 49.19  | 5.496      | 0.0        | 57.568 | 3.838      | 0.0       | 41.028 | 3.591      | 0.0        | 41.642 | 2.959      |
| 21    | 3102        | 3103      | NS   | 1    | 0.0       | 42.754 | 1.888      | 0.0        | 44.21  | 1.385      | 0.0       | 40.405 | 1.258      | 0.0        | 36.771 | 1.086      | 0.0       | 45.09  | 1.662      | 0.0        | 42.641 | 1.145      | 0.0       | 41.38  | 1.044      | 0.0        | 35.79  | 0.844      |
| 22    | 3102        | 3103      | SN   | 1    | 0.0       | 44.137 | 6.744      | 0.0        | 49.549 | 5.366      | 0.0       | 48.37  | 4.699      | 0.0        | 44.229 | 5.188      | 0.0       | 45.631 | 5.994      | 0.0        | 47.645 | 5.058      | 0.0       | 46.027 | 4.308      | 0.0        | 44.683 | 4.749      |
| 23    | 3102        | 3103      | SN   | 1    | 0.0       | 44.92  | 6.918      | 0.0        | 49.881 | 5.426      | 0.0       | 48.514 | 4.724      | 0.0        | 44.083 | 5.174      | 0.0       | 46.825 | 6.138      | 0.0        | 47.977 | 5.056      | 0.0       | 46.024 | 4.314      | 0.0        | 44.535 | 4.741      |
| 24    | 3102        | 3103      | SN   | 1    | 0.0       | 42.897 | 2.237      | 0.0        | 49.741 | 1.886      | 0.0       | 39.806 | 1.702      | 0.0        | 40.285 | 1.841      | 0.0       | 38.874 | 1.993      | 0.0        | 47.244 | 1.696      | 0.0       | 41.354 | 1.518      | 0.0        | 38.709 | 1.642      |
| 25    | 3103        | 3104      | SN   | 1    | 0.0       | 41.871 | 6.559      | 0.0        | 42.722 | 6.291      | 0.0       | 41.178 | 5.79       | 0.0        | 43.055 | 5.579      | 0.0       | 42.073 | 5.91       | 0.0        | 45.357 | 5.857      | 0.0       | 38.982 | 5.507      | 0.0        | 45.592 | 5.557      |
| 26    | 3103        | 3104      | SN   | 1    | 0.0       | 43.058 | 2.338      | 0.0        | 39.925 | 2.206      | 0.0       | 46.248 | 1.982      | 0.0        | 38.774 | 1.839      | 0.0       | 42.566 | 1.993      | 0.0        | 37.843 | 1.985      | 0.0       | 42.084 | 1.81       | 0.0        | 35.509 | 1.721      |
| 27    | 3103        | 3104      | NS   | 1    | 0.0       | 43.482 | 6.158      | 0.0        | 48.003 | 4.953      | 0.0       | 40.332 | 4.481      | 0.0        | 42.233 | 4.307      | 0.0       | 43.104 | 5.702      | 0.0        | 47.948 | 4.771      | 0.0       | 40.405 | 4.36       | 0.0        | 41.507 | 4.207      |
| 28    | 3103        | 3104      | NS   | 1    | 0.0       | 47.278 | 2.316      | 0.0        | 48.463 | 1.706      | 0.0       | 37.328 | 1.557      | 0.0        | 54.635 | 1.476      | 0.0       | 48.37  | 2.09       | 0.0        | 49.779 | 1.661      | 0.0       | 38.128 | 1.455      | 0.0        | 49.794 | 1.355      |
| 29    | 3103        | 3104      | SN   | 1    | 0.0       | 43.058 | 2.381      | 0.0        | 39.925 | 2.222      | 0.0       | 46.248 | 2.021      | 0.0        | 38.774 | 1.854      | 0.0       | 42.566 | 2.029      | 0.0        | 37.843 | 1.999      | 0.0       | 42.084 | 1.845      | 0.0        | 35.509 | 1.735      |
| 30    | 3103        | 3104      | SN   | 1    | 0.0       | 41.871 | 6.439      | 0.0        | 42.722 | 6.26       | 0.0       | 41.178 | 5.677      | 0.0        | 43.055 | 5.536      | 0.0       | 42.073 | 5.801      | 0.0        | 45.357 | 5.819      | 0.0       | 38.982 | 5.4        | 0.0        | 45.592 | 5.521      |
| 31    | 3104        | 3105      | SN   | 1    | 0.0       | 40.739 | 2.521      | 0.0        | 49.484 | 2.193      | 0.0       | 37.027 | 1.718      | 0.0        | 42.533 | 1.927      | 0.0       | 39.209 | 2.07       | 0.0        | 50.129 | 1.949      | 0.0       | 39.673 | 1.562      | 0.0        | 40.617 | 1.657      |

|                          |            |      |        |          |             |
|--------------------------|------------|------|--------|----------|-------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal   | Deviations  |
|                          | Range      | 20.0 | 20.0   | Alarming | High Errors |

|    |      |      |    |   |     |        |        |     |        |        |     |        |       |     |        |       |     |        |        |     |        |        |     |        |       |     |        |       |
|----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 32 | 3104 | 3105 | SN | 1 | 0.0 | 47.901 | 6.943  | 0.0 | 46.84  | 5.764  | 0.0 | 39.379 | 5.478 | 0.0 | 45.649 | 5.785 | 0.0 | 48.791 | 6.184  | 0.0 | 48.524 | 5.176  | 0.0 | 38.52  | 5.095 | 0.0 | 45.919 | 5.223 |
| 33 | 3104 | 3105 | NS | 1 | 0.0 | 45.48  | 4.382  | 0.0 | 46.846 | 3.96   | 0.0 | 48.333 | 3.499 | 0.0 | 47.456 | 3.451 | 0.0 | 45.121 | 3.753  | 0.0 | 50.996 | 3.463  | 0.0 | 47.026 | 3.122 | 0.0 | 45.435 | 3.137 |
| 34 | 3104 | 3105 | SN | 1 | 0.0 | 40.739 | 2.521  | 0.0 | 49.484 | 2.218  | 0.0 | 37.027 | 1.718 | 0.0 | 42.533 | 1.949 | 0.0 | 39.209 | 2.07   | 0.0 | 50.129 | 1.971  | 0.0 | 39.673 | 1.562 | 0.0 | 40.617 | 1.676 |
| 35 | 3104 | 3105 | SN | 1 | 0.0 | 47.901 | 6.945  | 0.0 | 46.84  | 5.818  | 0.0 | 39.379 | 5.478 | 0.0 | 45.649 | 5.845 | 0.0 | 48.791 | 6.186  | 0.0 | 48.524 | 5.223  | 0.0 | 38.52  | 5.095 | 0.0 | 45.919 | 5.276 |
| 36 | 3104 | 3105 | NS | 1 | 0.0 | 43.511 | 1.204  | 0.0 | 45.606 | 1.188  | 0.0 | 41.559 | 0.962 | 0.0 | 45.129 | 0.932 | 0.0 | 48.174 | 1.057  | 0.0 | 43.443 | 1.064  | 0.0 | 41.66  | 0.864 | 0.0 | 43.235 | 0.85  |
| 37 | 3105 | 3106 | SN | 1 | 0.0 | 40.931 | 1.919  | 0.0 | 41.492 | 1.407  | 0.0 | 40.476 | 1.396 | 0.0 | 36.802 | 1.221 | 0.0 | 40.668 | 1.641  | 0.0 | 44.592 | 1.278  | 0.0 | 37.017 | 1.277 | 0.0 | 35.611 | 1.075 |
| 38 | 3105 | 3106 | SN | 1 | 0.0 | 40.931 | 1.919  | 0.0 | 41.492 | 1.423  | 0.0 | 40.476 | 1.396 | 0.0 | 36.802 | 1.233 | 0.0 | 40.668 | 1.641  | 0.0 | 44.592 | 1.293  | 0.0 | 37.017 | 1.277 | 0.0 | 35.611 | 1.086 |
| 39 | 3105 | 3106 | NS | 1 | 0.0 | 47.689 | 7.369  | 0.0 | 52.651 | 7.085  | 0.0 | 45.012 | 5.688 | 0.0 | 44.857 | 6.447 | 0.0 | 48.25  | 7.481  | 0.0 | 50.8   | 6.953  | 0.0 | 47.81  | 5.425 | 0.0 | 44.927 | 6.112 |
| 40 | 3105 | 3106 | SN | 1 | 0.0 | 43.791 | 5.346  | 0.0 | 50.793 | 4.238  | 0.0 | 40.603 | 4.165 | 0.0 | 42.368 | 3.39  | 0.0 | 45.375 | 4.739  | 0.0 | 48.479 | 3.756  | 0.0 | 41.049 | 3.661 | 0.0 | 40.578 | 3.052 |
| 41 | 3105 | 3106 | SN | 1 | 0.0 | 43.791 | 5.348  | 0.0 | 50.793 | 4.191  | 0.0 | 40.603 | 4.17  | 0.0 | 42.368 | 3.351 | 0.0 | 45.375 | 4.741  | 0.0 | 48.479 | 3.714  | 0.0 | 41.049 | 3.666 | 0.0 | 40.578 | 3.017 |
| 42 | 3105 | 3106 | SN | 1 | 0.0 | 43.791 | 5.344  | 0.0 | 50.793 | 4.193  | 0.0 | 40.603 | 4.165 | 0.0 | 42.368 | 3.351 | 0.0 | 45.375 | 4.737  | 0.0 | 48.479 | 3.716  | 0.0 | 41.049 | 3.661 | 0.0 | 40.578 | 3.017 |
| 43 | 3105 | 3106 | NS | 1 | 0.0 | 46.019 | 2.714  | 0.0 | 48.653 | 2.465  | 0.0 | 41.008 | 1.749 | 0.0 | 46.033 | 1.924 | 0.0 | 43.879 | 2.567  | 0.0 | 48.25  | 2.37   | 0.0 | 42.783 | 1.664 | 0.0 | 43.502 | 1.824 |
| 44 | 3105 | 3106 | SN | 1 | 0.0 | 40.931 | 1.92   | 0.0 | 41.492 | 1.407  | 0.0 | 40.476 | 1.395 | 0.0 | 36.802 | 1.221 | 0.0 | 40.668 | 1.643  | 0.0 | 44.592 | 1.278  | 0.0 | 37.017 | 1.278 | 0.0 | 35.611 | 1.075 |
| 45 | 3106 | 3107 | NS | 1 | 0.0 | 52.779 | 6.435  | 0.0 | 53.311 | 5.531  | 0.0 | 42.621 | 5.001 | 0.0 | 43.819 | 4.771 | 0.0 | 54.485 | 5.815  | 0.0 | 54.127 | 4.982  | 0.0 | 45.964 | 4.567 | 0.0 | 45.574 | 4.136 |
| 46 | 3106 | 3107 | SN | 1 | 0.0 | 52.748 | 9.035  | 0.0 | 52.026 | 8.64   | 0.0 | 46.718 | 6.279 | 0.0 | 48.157 | 6.555 | 0.0 | 56.31  | 8.023  | 0.0 | 52.053 | 7.838  | 0.0 | 45.336 | 5.584 | 0.0 | 47.17  | 5.651 |
| 47 | 3106 | 3107 | SN | 1 | 0.0 | 48.065 | 2.937  | 0.0 | 45.697 | 2.546  | 0.0 | 47.904 | 1.965 | 0.0 | 43.437 | 1.894 | 0.0 | 48.32  | 2.495  | 0.0 | 45.652 | 2.305  | 0.0 | 43.73  | 1.732 | 0.0 | 40.85  | 1.651 |
| 48 | 3106 | 3107 | NS | 1 | 0.0 | 50.298 | 2.273  | 0.0 | 48.345 | 2.028  | 0.0 | 40.808 | 1.556 | 0.0 | 41.962 | 1.426 | 0.0 | 48.182 | 1.986  | 0.0 | 46.527 | 1.849  | 0.0 | 37.885 | 1.334 | 0.0 | 37.839 | 1.2   |
| 49 | 3106 | 3107 | SN | 1 | 0.0 | 47.744 | 2.903  | 0.0 | 50.231 | 2.597  | 0.0 | 42.564 | 1.956 | 0.0 | 43.437 | 1.919 | 0.0 | 47.996 | 2.452  | 0.0 | 49.629 | 2.337  | 0.0 | 40.444 | 1.712 | 0.0 | 39.109 | 1.651 |
| 50 | 3106 | 3107 | SN | 1 | 0.0 | 57.162 | 9.296  | 0.0 | 54.272 | 8.912  | 0.0 | 46.828 | 6.465 | 0.0 | 48.235 | 6.732 | 0.0 | 57.229 | 8.27   | 0.0 | 53.258 | 8.06   | 0.0 | 45.752 | 5.883 | 0.0 | 47.247 | 5.705 |
| 51 | 3106 | 3107 | NS | 1 | 0.0 | 52.36  | 6.475  | 0.0 | 56.817 | 5.511  | 0.0 | 44.634 | 4.909 | 0.0 | 43.683 | 4.771 | 0.0 | 54.485 | 5.856  | 0.0 | 53.755 | 4.982  | 0.0 | 46.403 | 4.575 | 0.0 | 42.076 | 4.122 |
| 52 | 3106 | 3107 | SN | 1 | 0.0 | 47.744 | 2.972  | 0.0 | 50.231 | 2.62   | 0.0 | 42.564 | 2.0   | 0.0 | 43.437 | 1.939 | 0.0 | 47.996 | 2.513  | 0.0 | 49.629 | 2.365  | 0.0 | 40.444 | 1.75  | 0.0 | 39.109 | 1.67  |
| 53 | 3106 | 3107 | SN | 1 | 0.0 | 57.162 | 9.089  | 0.0 | 54.272 | 8.839  | 0.0 | 46.828 | 6.322 | 0.0 | 48.235 | 6.653 | 0.0 | 57.229 | 8.077  | 0.0 | 53.258 | 7.997  | 0.0 | 45.752 | 5.747 | 0.0 | 47.247 | 5.645 |
| 54 | 3106 | 3107 | NS | 1 | 0.0 | 45.265 | 2.255  | 0.0 | 48.085 | 2.017  | 0.0 | 41.656 | 1.579 | 0.0 | 43.359 | 1.415 | 0.0 | 48.388 | 1.959  | 0.0 | 46.459 | 1.827  | 0.0 | 38.219 | 1.366 | 0.0 | 45.543 | 1.204 |
| 55 | 3107 | 3108 | SN | 1 | 0.0 | 55.438 | 11.878 | 0.0 | 56.391 | 11.443 | 0.0 | 50.59  | 8.103 | 0.0 | 49.916 | 8.149 | 0.0 | 56.276 | 11.999 | 0.0 | 52.52  | 11.453 | 0.0 | 50.951 | 8.337 | 0.0 | 47.81  | 8.335 |
| 56 | 3107 | 3108 | NS | 1 | 0.0 | 50.346 | 4.983  | 0.0 | 48.741 | 4.281  | 0.0 | 40.836 | 3.998 | 0.0 | 40.159 | 3.131 | 0.0 | 50.797 | 4.171  | 0.0 | 48.763 | 3.518  | 0.0 | 41.154 | 3.45  | 0.0 | 41.18  | 2.703 |
| 57 | 3107 | 3108 | NS | 1 | 0.0 | 52.245 | 4.973  | 0.0 | 53.43  | 4.251  | 0.0 | 41.678 | 3.941 | 0.0 | 39.832 | 3.102 | 0.0 | 52.7   | 4.11   | 0.0 | 50.983 | 3.508  | 0.0 | 41.995 | 3.457 | 0.0 | 41.039 | 2.696 |
| 58 | 3107 | 3108 | NS | 1 | 0.0 | 44.243 | 1.528  | 0.0 | 45.451 | 1.335  | 0.0 | 38.827 | 1.257 | 0.0 | 37.974 | 1.046 | 0.0 | 42.426 | 1.245  | 0.0 | 45.726 | 1.134  | 0.0 | 38.526 | 1.058 | 0.0 | 35.712 | 0.845 |
| 59 | 3107 | 3108 | NS | 1 | 0.0 | 41.293 | 1.559  | 0.0 | 44.374 | 1.344  | 0.0 | 38.878 | 1.245 | 0.0 | 37.702 | 1.046 | 0.0 | 41.429 | 1.245  | 0.0 | 45.992 | 1.136  | 0.0 | 39.736 | 1.053 | 0.0 | 35.399 | 0.857 |
| 60 | 3107 | 3108 | SN | 1 | 0.0 | 50.324 | 3.739  | 0.0 | 53.441 | 3.849  | 0.0 | 43.904 | 2.344 | 0.0 | 44.956 | 2.504 | 0.0 | 50.983 | 3.813  | 0.0 | 53.315 | 3.826  | 0.0 | 48.957 | 2.38  | 0.0 | 42.827 | 2.479 |
| 61 | 3107 | 3108 | SN | 1 | 0.0 | 53.699 | 3.771  | 0.0 | 54.526 | 3.807  | 0.0 | 48.16  | 2.335 | 0.0 | 43.876 | 2.462 | 0.0 | 51.562 | 3.825  | 0.0 | 54.256 | 3.775  | 0.0 | 45.571 | 2.378 | 0.0 | 44.244 | 2.46  |
| 62 | 3107 | 3108 | SN | 1 | 0.0 | 54.807 | 12.675 | 0.0 | 56.391 | 12.007 | 0.0 | 49.453 | 8.734 | 0.0 | 49.072 | 8.614 | 0.0 | 55.645 | 12.752 | 0.0 | 52.587 | 12.118 | 0.0 | 50.893 | 9.067 | 0.0 | 47.139 | 8.963 |
| 63 | 3107 | 3108 | SN | 1 | 0.0 | 50.324 | 4.025  | 0.0 | 53.441 | 4.039  | 0.0 | 43.904 | 2.526 | 0.0 | 44.956 | 2.643 | 0.0 | 50.983 | 4.118  | 0.0 | 53.315 | 4.032  | 0.0 | 48.957 | 2.576 | 0.0 | 42.827 | 2.623 |
| 64 | 3107 | 3108 | SN | 1 | 0.0 | 54.807 | 11.872 | 0.0 | 56.391 | 11.548 | 0.0 | 49.453 | 8.11  | 0.0 | 49.072 | 8.245 | 0.0 | 55.645 | 11.913 | 0.0 | 52.587 | 11.538 | 0.0 | 50.893 | 8.401 | 0.0 | 47.139 | 8.497 |
| 65 | 3108 | 3109 | SN | 1 | 0.0 | 49.665 | 2.377  | 0.0 | 44.481 | 2.225  | 0.0 | 46.757 | 1.768 | 0.0 | 44.195 | 1.702 | 0.0 | 51.372 | 2.249  | 0.0 | 44.265 | 2.047  | 0.0 | 45.851 | 1.685 | 0.0 | 46.833 | 1.562 |
| 66 | 3108 | 3109 | SN | 1 | 0.0 | 48.09  | 2.377  | 0.0 | 54.606 | 2.266  | 0.0 | 40.493 | 1.724 | 0.0 | 41.883 | 1.704 | 0.0 | 48.233 | 2.226  | 0.0 | 51.291 | 2.076  | 0.0 | 40.321 | 1.674 | 0.0 | 46.835 | 1.546 |
| 67 | 3108 | 3109 | SN | 1 | 0.0 | 48.997 | 7.412  | 0.0 | 55.124 | 6.303  | 0.0 | 50.771 | 5.751 | 0.0 | 45.644 | 5.274 | 0.0 | 49.021 | 6.592  | 0.0 | 52.08  | 5.998  | 0.0 | 51.121 | 5.36  | 0.0 | 47.54  | 4.762 |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal | Deviations |
|                          | Range      | 20.0 | 20.0   |        |            |

|     |      |      |    |   |     |        |        |     |        |        |     |        |        |     |        |        |     |        |        |     |        |       |     |        |        |     |        |        |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|--------|-----|--------|--------|
| 68  | 3108 | 3109 | SN | 1 | 0.0 | 48.873 | 7.29   | 0.0 | 48.772 | 6.282  | 0.0 | 44.653 | 5.702  | 0.0 | 53.888 | 5.317  | 0.0 | 48.585 | 6.582  | 0.0 | 48.737 | 5.998 | 0.0 | 43.113 | 5.297  | 0.0 | 52.892 | 4.84   |
| 69  | 3108 | 3109 | NS | 1 | 0.0 | 49.142 | 5.207  | 0.0 | 51.274 | 4.861  | 0.0 | 42.544 | 3.329  | 0.0 | 43.373 | 3.744  | 0.0 | 47.797 | 4.608  | 0.0 | 51.745 | 4.118 | 0.0 | 41.329 | 3.116  | 0.0 | 41.858 | 3.337  |
| 70  | 3108 | 3109 | NS | 1 | 0.0 | 51.006 | 5.237  | 0.0 | 51.187 | 4.84   | 0.0 | 41.314 | 3.379  | 0.0 | 43.373 | 3.73   | 0.0 | 52.26  | 4.557  | 0.0 | 51.658 | 4.108 | 0.0 | 42.657 | 3.094  | 0.0 | 41.136 | 3.337  |
| 71  | 3108 | 3109 | NS | 1 | 0.0 | 49.648 | 1.681  | 0.0 | 45.731 | 1.297  | 0.0 | 41.608 | 1.053  | 0.0 | 37.425 | 1.161  | 0.0 | 50.31  | 1.392  | 0.0 | 46.437 | 1.138 | 0.0 | 40.133 | 0.911  | 0.0 | 36.468 | 0.996  |
| 72  | 3108 | 3109 | NS | 1 | 0.0 | 43.582 | 1.704  | 0.0 | 44.606 | 1.342  | 0.0 | 40.972 | 1.067  | 0.0 | 38.084 | 1.179  | 0.0 | 43.421 | 1.374  | 0.0 | 46.129 | 1.157 | 0.0 | 39.495 | 0.934  | 0.0 | 38.334 | 0.974  |
| 73  | 3109 | 3110 | NS | 1 | 0.0 | 51.203 | 2.252  | 0.0 | 52.414 | 1.623  | 0.0 | 43.547 | 1.468  | 0.0 | 43.726 | 1.281  | 0.0 | 51.629 | 1.805  | 0.0 | 54.607 | 1.365 | 0.0 | 45.969 | 1.29   | 0.0 | 40.596 | 1.158  |
| 74  | 3109 | 3110 | NS | 1 | 0.0 | 52.66  | 6.918  | 0.0 | 44.933 | 5.38   | 0.0 | 43.61  | 4.516  | 0.0 | 43.881 | 4.515  | 0.0 | 53.216 | 5.954  | 0.0 | 48.296 | 4.862 | 0.0 | 45.027 | 4.224  | 0.0 | 43.953 | 3.916  |
| 75  | 3109 | 3110 | NS | 1 | 0.0 | 52.66  | 6.918  | 0.0 | 44.933 | 5.38   | 0.0 | 43.61  | 4.516  | 0.0 | 43.881 | 4.515  | 0.0 | 53.216 | 5.954  | 0.0 | 48.296 | 4.862 | 0.0 | 45.027 | 4.224  | 0.0 | 43.953 | 3.916  |
| 76  | 3109 | 3110 | NS | 1 | 0.0 | 51.203 | 2.252  | 0.0 | 52.414 | 1.623  | 0.0 | 43.547 | 1.468  | 0.0 | 43.726 | 1.281  | 0.0 | 51.629 | 1.805  | 0.0 | 54.607 | 1.365 | 0.0 | 45.969 | 1.29   | 0.0 | 40.596 | 1.158  |
| 77  | 3115 | 3116 | NS | 1 | 0.0 | 51.203 | 5.04   | 0.0 | 54.052 | 4.902  | 0.0 | 46.863 | 3.049  | 0.0 | 47.81  | 3.069  | 0.0 | 50.457 | 5.011  | 0.0 | 52.363 | 4.764 | 0.0 | 46.516 | 2.991  | 0.0 | 46.189 | 3.044  |
| 78  | 3115 | 3116 | SN | 1 | 0.0 | 47.917 | 1.146  | 0.0 | 49.786 | 1.126  | 0.0 | 37.785 | 0.806  | 0.0 | 46.614 | 0.823  | 0.0 | 47.051 | 0.94   | 0.0 | 48.14  | 0.968 | 0.0 | 35.907 | 0.645  | 0.0 | 43.867 | 0.75   |
| 79  | 3115 | 3116 | SN | 1 | 0.0 | 47.917 | 1.146  | 0.0 | 49.786 | 1.113  | 0.0 | 37.785 | 0.806  | 0.0 | 46.614 | 0.814  | 0.0 | 47.051 | 0.94   | 0.0 | 48.14  | 0.957 | 0.0 | 35.907 | 0.645  | 0.0 | 43.867 | 0.742  |
| 80  | 3115 | 3116 | SN | 1 | 0.0 | 52.807 | 4.609  | 0.0 | 50.256 | 4.268  | 0.0 | 45.485 | 3.109  | 0.0 | 50.245 | 2.893  | 0.0 | 53.229 | 4.112  | 0.0 | 51.357 | 3.684 | 0.0 | 43.514 | 2.783  | 0.0 | 46.729 | 2.519  |
| 81  | 3115 | 3116 | SN | 1 | 0.0 | 52.807 | 4.761  | 0.0 | 50.256 | 4.376  | 0.0 | 45.485 | 3.206  | 0.0 | 50.245 | 2.951  | 0.0 | 53.229 | 4.248  | 0.0 | 51.357 | 3.778 | 0.0 | 43.514 | 2.861  | 0.0 | 46.729 | 2.576  |
| 82  | 3115 | 3116 | NS | 1 | 0.0 | 61.175 | 15.057 | 0.0 | 60.461 | 15.109 | 0.0 | 48.127 | 10.363 | 0.0 | 48.486 | 10.654 | 0.0 | 62.482 | 15.077 | 0.0 | 59.167 | 15.17 | 0.0 | 50.354 | 10.498 | 0.0 | 50.795 | 10.932 |
| 83  | 3115 | 3116 | SN | 1 | 0.0 | 52.807 | 4.606  | 0.0 | 50.256 | 4.234  | 0.0 | 45.485 | 3.109  | 0.0 | 50.245 | 2.86   | 0.0 | 53.229 | 4.11   | 0.0 | 51.357 | 3.655 | 0.0 | 43.514 | 2.783  | 0.0 | 46.729 | 2.49   |
| 84  | 3115 | 3116 | SN | 1 | 0.0 | 47.917 | 1.184  | 0.0 | 49.786 | 1.149  | 0.0 | 37.785 | 0.831  | 0.0 | 46.614 | 0.841  | 0.0 | 47.051 | 0.972  | 0.0 | 48.14  | 0.989 | 0.0 | 35.907 | 0.666  | 0.0 | 43.867 | 0.768  |
| 85  | 3116 | 3117 | SN | 1 | 0.0 | 49.467 | 6.501  | 0.0 | 49.654 | 5.367  | 0.0 | 42.003 | 4.839  | 0.0 | 48.201 | 4.952  | 0.0 | 50.944 | 6.106  | 0.0 | 48.035 | 5.07  | 0.0 | 42.581 | 4.96   | 0.0 | 45.621 | 4.888  |
| 86  | 3116 | 3117 | NS | 1 | 0.0 | 56.195 | 2.295  | 0.0 | 47.917 | 2.277  | 0.0 | 40.548 | 1.75   | 0.0 | 44.538 | 1.63   | 0.0 | 53.216 | 2.43   | 0.0 | 51.532 | 2.322 | 0.0 | 41.882 | 1.771  | 0.0 | 46.398 | 1.723  |
| 87  | 3116 | 3117 | SN | 1 | 0.0 | 45.08  | 2.417  | 0.0 | 40.599 | 2.002  | 0.0 | 38.678 | 1.707  | 0.0 | 42.56  | 1.582  | 0.0 | 44.194 | 2.239  | 0.0 | 41.503 | 1.908 | 0.0 | 37.28  | 1.649  | 0.0 | 40.039 | 1.462  |
| 88  | 3116 | 3117 | NS | 1 | 0.0 | 56.195 | 2.301  | 0.0 | 47.071 | 2.286  | 0.0 | 37.428 | 1.759  | 0.0 | 42.895 | 1.62   | 0.0 | 53.216 | 2.437  | 0.0 | 50.684 | 2.329 | 0.0 | 36.743 | 1.78   | 0.0 | 45.306 | 1.71   |
| 89  | 3116 | 3117 | SN | 1 | 0.0 | 49.444 | 6.498  | 0.0 | 49.445 | 5.289  | 0.0 | 50.327 | 4.868  | 0.0 | 48.778 | 4.974  | 0.0 | 50.922 | 6.204  | 0.0 | 47.826 | 4.985 | 0.0 | 48.085 | 5.002  | 0.0 | 46.199 | 4.825  |
| 90  | 3116 | 3117 | SN | 1 | 0.0 | 49.467 | 6.604  | 0.0 | 49.654 | 5.39   | 0.0 | 42.003 | 4.913  | 0.0 | 48.201 | 4.972  | 0.0 | 50.944 | 6.202  | 0.0 | 48.035 | 5.091 | 0.0 | 42.581 | 5.043  | 0.0 | 45.621 | 4.907  |
| 91  | 3116 | 3117 | SN | 1 | 0.0 | 46.198 | 2.351  | 0.0 | 40.87  | 2.001  | 0.0 | 39.541 | 1.681  | 0.0 | 38.953 | 1.544  | 0.0 | 44.277 | 2.203  | 0.0 | 41.736 | 1.879 | 0.0 | 37.313 | 1.627  | 0.0 | 39.23  | 1.444  |
| 92  | 3116 | 3117 | NS | 1 | 0.0 | 53.61  | 6.716  | 0.0 | 52.576 | 6.396  | 0.0 | 45.162 | 5.69   | 0.0 | 46.036 | 5.754  | 0.0 | 53.54  | 6.402  | 0.0 | 53.645 | 6.356 | 0.0 | 44.298 | 6.06   | 0.0 | 45.259 | 5.975  |
| 93  | 3116 | 3117 | NS | 1 | 0.0 | 51.441 | 6.675  | 0.0 | 52.643 | 6.427  | 0.0 | 45.595 | 5.705  | 0.0 | 44.877 | 5.655  | 0.0 | 53.498 | 6.391  | 0.0 | 53.711 | 6.345 | 0.0 | 46.898 | 6.089  | 0.0 | 45.121 | 5.911  |
| 94  | 3116 | 3117 | SN | 1 | 0.0 | 45.08  | 2.378  | 0.0 | 40.599 | 1.994  | 0.0 | 38.678 | 1.681  | 0.0 | 42.56  | 1.576  | 0.0 | 44.194 | 2.203  | 0.0 | 41.503 | 1.9   | 0.0 | 37.28  | 1.622  | 0.0 | 40.039 | 1.455  |
| 95  | 3117 | 3118 | NS | 1 | 0.0 | 46.128 | 4.545  | 0.0 | 42.442 | 4.209  | 0.0 | 43.808 | 3.101  | 0.0 | 44.218 | 3.458  | 0.0 | 46.176 | 3.784  | 0.0 | 42.817 | 3.477 | 0.0 | 42.997 | 2.76   | 0.0 | 42.139 | 2.817  |
| 96  | 3117 | 3118 | SN | 1 | 0.0 | 40.685 | 2.257  | 0.0 | 45.162 | 1.848  | 0.0 | 36.503 | 1.774  | 0.0 | 40.213 | 1.686  | 0.0 | 38.834 | 2.074  | 0.0 | 41.034 | 1.685 | 0.0 | 36.588 | 1.633  | 0.0 | 37.549 | 1.464  |
| 97  | 3117 | 3118 | SN | 1 | 0.0 | 40.685 | 2.257  | 0.0 | 45.162 | 1.868  | 0.0 | 36.503 | 1.774  | 0.0 | 40.213 | 1.705  | 0.0 | 38.834 | 2.074  | 0.0 | 41.034 | 1.704 | 0.0 | 36.588 | 1.633  | 0.0 | 37.549 | 1.481  |
| 98  | 3117 | 3118 | NS | 1 | 0.0 | 44.189 | 1.545  | 0.0 | 48.093 | 1.288  | 0.0 | 39.964 | 1.038  | 0.0 | 39.11  | 1.141  | 0.0 | 42.678 | 1.195  | 0.0 | 51.158 | 1.052 | 0.0 | 38.235 | 0.804  | 0.0 | 39.245 | 0.917  |
| 99  | 3117 | 3118 | NS | 1 | 0.0 | 44.185 | 1.561  | 0.0 | 48.469 | 1.288  | 0.0 | 39.735 | 1.052  | 0.0 | 40.705 | 1.152  | 0.0 | 42.652 | 1.211  | 0.0 | 51.533 | 1.057 | 0.0 | 37.46  | 0.825  | 0.0 | 40.398 | 0.93   |
| 100 | 3117 | 3118 | SN | 1 | 0.0 | 41.337 | 2.259  | 0.0 | 41.885 | 1.869  | 0.0 | 36.647 | 1.813  | 0.0 | 44.219 | 1.703  | 0.0 | 38.994 | 2.097  | 0.0 | 40.838 | 1.718 | 0.0 | 35.462 | 1.725  | 0.0 | 41.803 | 1.469  |
| 101 | 3117 | 3118 | SN | 1 | 0.0 | 50.831 | 6.599  | 0.0 | 46.11  | 5.774  | 0.0 | 43.293 | 4.903  | 0.0 | 41.755 | 4.853  | 0.0 | 50.906 | 6.416  | 0.0 | 48.071 | 5.592 | 0.0 | 42.029 | 4.875  | 0.0 | 42.136 | 4.568  |
| 102 | 3117 | 3118 | SN | 1 | 0.0 | 50.831 | 6.601  | 0.0 | 46.11  | 5.839  | 0.0 | 43.293 | 4.903  | 0.0 | 41.755 | 4.909  | 0.0 | 50.906 | 6.419  | 0.0 | 48.071 | 5.655 | 0.0 | 42.029 | 4.875  | 0.0 | 42.136 | 4.621  |
| 103 | 3117 | 3118 | SN | 1 | 0.0 | 49.414 | 6.757  | 0.0 | 52.352 | 5.843  | 0.0 | 43.313 | 5.007  | 0.0 | 40.685 | 4.965  | 0.0 | 49.488 | 6.49   | 0.0 | 50.417 | 5.688 | 0.0 | 42.05  | 4.956  | 0.0 | 41.058 | 4.683  |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal | Deviations |
|                          | Range      | 20.0 | 20.0   |        |            |

|     |      |      |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 104 | 3117 | 3118 | NS | 1 | 0.0 | 46.156 | 4.575 | 0.0 | 42.136 | 4.158 | 0.0 | 49.929 | 3.129 | 0.0 | 47.278 | 3.451 | 0.0 | 46.124 | 3.784 | 0.0 | 43.057 | 3.386 | 0.0 | 46.87  | 2.724 | 0.0 | 47.674 | 2.824 |
| 105 | 3118 | 3119 | NS | 1 | 0.0 | 42.852 | 2.339 | 0.0 | 46.204 | 1.989 | 0.0 | 43.161 | 1.457 | 0.0 | 37.451 | 1.426 | 0.0 | 40.046 | 2.254 | 0.0 | 45.943 | 1.79  | 0.0 | 44.613 | 1.382 | 0.0 | 38.235 | 1.301 |
| 106 | 3118 | 3119 | SN | 1 | 0.0 | 42.501 | 2.036 | 0.0 | 41.908 | 1.919 | 0.0 | 39.629 | 1.508 | 0.0 | 38.895 | 1.781 | 0.0 | 39.779 | 1.66  | 0.0 | 42.168 | 1.628 | 0.0 | 41.113 | 1.29  | 0.0 | 37.716 | 1.408 |
| 107 | 3118 | 3119 | NS | 1 | 0.0 | 42.682 | 2.333 | 0.0 | 46.124 | 2.003 | 0.0 | 39.899 | 1.466 | 0.0 | 39.362 | 1.401 | 0.0 | 39.877 | 2.254 | 0.0 | 45.864 | 1.799 | 0.0 | 42.036 | 1.397 | 0.0 | 39.706 | 1.277 |
| 108 | 3118 | 3119 | NS | 1 | 0.0 | 48.775 | 7.049 | 0.0 | 49.119 | 6.059 | 0.0 | 51.382 | 4.935 | 0.0 | 44.402 | 5.198 | 0.0 | 48.818 | 6.684 | 0.0 | 51.991 | 5.795 | 0.0 | 50.109 | 4.708 | 0.0 | 47.917 | 4.72  |
| 109 | 3118 | 3119 | NS | 1 | 0.0 | 46.187 | 7.029 | 0.0 | 49.69  | 6.059 | 0.0 | 51.916 | 4.971 | 0.0 | 44.77  | 5.176 | 0.0 | 47.331 | 6.694 | 0.0 | 52.559 | 5.897 | 0.0 | 50.82  | 4.672 | 0.0 | 45.047 | 4.699 |
| 110 | 3118 | 3119 | SN | 1 | 0.0 | 46.517 | 6.338 | 0.0 | 47.87  | 5.377 | 0.0 | 42.931 | 4.544 | 0.0 | 42.448 | 5.065 | 0.0 | 45.537 | 5.204 | 0.0 | 46.629 | 4.606 | 0.0 | 42.295 | 4.139 | 0.0 | 42.581 | 4.304 |
| 111 | 3118 | 3119 | SN | 1 | 0.0 | 43.616 | 6.257 | 0.0 | 47.972 | 5.407 | 0.0 | 43.028 | 4.466 | 0.0 | 43.757 | 5.079 | 0.0 | 45.485 | 5.184 | 0.0 | 46.731 | 4.596 | 0.0 | 42.393 | 4.111 | 0.0 | 40.806 | 4.389 |
| 112 | 3118 | 3119 | SN | 1 | 0.0 | 40.039 | 2.039 | 0.0 | 46.999 | 1.915 | 0.0 | 38.471 | 1.481 | 0.0 | 46.455 | 1.772 | 0.0 | 36.481 | 1.685 | 0.0 | 45.568 | 1.639 | 0.0 | 36.589 | 1.279 | 0.0 | 44.953 | 1.401 |
| 113 | 3119 | 3120 | SN | 1 | 0.0 | 52.794 | 7.834 | 0.0 | 44.366 | 6.914 | 0.0 | 50.895 | 5.592 | 0.0 | 41.296 | 5.735 | 0.0 | 52.326 | 7.743 | 0.0 | 44.899 | 6.701 | 0.0 | 52.46  | 5.713 | 0.0 | 40.816 | 5.628 |
| 114 | 3119 | 3120 | SN | 1 | 0.0 | 46.617 | 2.604 | 0.0 | 39.933 | 2.313 | 0.0 | 37.529 | 1.861 | 0.0 | 37.758 | 1.785 | 0.0 | 44.938 | 2.503 | 0.0 | 42.286 | 2.193 | 0.0 | 35.499 | 1.938 | 0.0 | 36.018 | 1.689 |
| 115 | 3119 | 3120 | SN | 1 | 0.0 | 49.405 | 2.675 | 0.0 | 40.468 | 2.378 | 0.0 | 40.35  | 1.983 | 0.0 | 40.336 | 1.856 | 0.0 | 47.726 | 2.61  | 0.0 | 42.822 | 2.257 | 0.0 | 37.419 | 2.058 | 0.0 | 37.813 | 1.77  |
| 116 | 3119 | 3120 | NS | 1 | 0.0 | 53.652 | 1.61  | 0.0 | 43.324 | 1.611 | 0.0 | 37.748 | 1.079 | 0.0 | 41.008 | 1.147 | 0.0 | 50.271 | 1.531 | 0.0 | 43.518 | 1.607 | 0.0 | 37.481 | 1.01  | 0.0 | 42.354 | 1.067 |
| 117 | 3119 | 3120 | NS | 1 | 0.0 | 53.585 | 1.615 | 0.0 | 43.902 | 1.618 | 0.0 | 37.699 | 1.026 | 0.0 | 48.672 | 1.14  | 0.0 | 50.203 | 1.529 | 0.0 | 48.182 | 1.616 | 0.0 | 37.727 | 0.972 | 0.0 | 50.02  | 1.092 |
| 118 | 3119 | 3120 | SN | 1 | 0.0 | 54.467 | 8.193 | 0.0 | 43.932 | 7.115 | 0.0 | 38.055 | 5.917 | 0.0 | 41.672 | 5.991 | 0.0 | 54.624 | 8.151 | 0.0 | 44.867 | 6.863 | 0.0 | 39.249 | 6.02  | 0.0 | 41.194 | 5.741 |
| 119 | 3119 | 3120 | SN | 1 | 0.0 | 49.405 | 2.586 | 0.0 | 40.468 | 2.329 | 0.0 | 40.35  | 1.92  | 0.0 | 40.336 | 1.812 | 0.0 | 47.726 | 2.521 | 0.0 | 42.822 | 2.206 | 0.0 | 37.419 | 1.992 | 0.0 | 37.813 | 1.73  |
| 120 | 3119 | 3120 | NS | 1 | 0.0 | 56.73  | 4.757 | 0.0 | 52.083 | 5.012 | 0.0 | 44.674 | 4.089 | 0.0 | 43.676 | 4.15  | 0.0 | 56.51  | 4.686 | 0.0 | 50.507 | 4.809 | 0.0 | 45.09  | 3.67  | 0.0 | 42.424 | 3.986 |
| 121 | 3119 | 3120 | SN | 1 | 0.0 | 54.467 | 7.919 | 0.0 | 43.932 | 6.948 | 0.0 | 38.055 | 5.727 | 0.0 | 41.672 | 5.859 | 0.0 | 54.624 | 7.878 | 0.0 | 44.867 | 6.702 | 0.0 | 39.249 | 5.826 | 0.0 | 41.194 | 5.607 |
| 122 | 3119 | 3120 | NS | 1 | 0.0 | 51.003 | 4.726 | 0.0 | 59.157 | 4.911 | 0.0 | 43.163 | 4.04  | 0.0 | 42.507 | 4.2   | 0.0 | 52.007 | 4.706 | 0.0 | 56.413 | 4.799 | 0.0 | 44.909 | 3.663 | 0.0 | 41.62  | 4.021 |
| 123 | 3120 | 3121 | NS | 1 | 0.0 | 50.54  | 5.522 | 0.0 | 52.287 | 4.618 | 0.0 | 46.212 | 4.326 | 0.0 | 43.356 | 4.079 | 0.0 | 49.368 | 4.649 | 0.0 | 49.535 | 3.774 | 0.0 | 46.692 | 3.685 | 0.0 | 41.665 | 3.445 |
| 124 | 3120 | 3121 | NS | 1 | 0.0 | 50.54  | 5.522 | 0.0 | 52.287 | 4.618 | 0.0 | 46.212 | 4.326 | 0.0 | 43.356 | 4.079 | 0.0 | 49.368 | 4.649 | 0.0 | 49.535 | 3.774 | 0.0 | 46.692 | 3.685 | 0.0 | 41.665 | 3.445 |
| 125 | 3120 | 3121 | NS | 1 | 0.0 | 51.546 | 1.923 | 0.0 | 47.666 | 1.526 | 0.0 | 38.551 | 1.236 | 0.0 | 40.027 | 1.184 | 0.0 | 52.017 | 1.647 | 0.0 | 46.115 | 1.281 | 0.0 | 37.004 | 1.06  | 0.0 | 37.716 | 0.982 |
| 126 | 3120 | 3121 | SN | 1 | 0.0 | 44.396 | 8.793 | 0.0 | 52.023 | 7.463 | 0.0 | 41.413 | 5.889 | 0.0 | 45.052 | 5.843 | 0.0 | 43.94  | 8.064 | 0.0 | 54.803 | 6.803 | 0.0 | 41.233 | 5.463 | 0.0 | 43.477 | 5.423 |
| 127 | 3120 | 3121 | SN | 1 | 0.0 | 44.396 | 8.796 | 0.0 | 52.023 | 7.545 | 0.0 | 41.413 | 5.889 | 0.0 | 45.052 | 5.912 | 0.0 | 43.94  | 8.068 | 0.0 | 54.803 | 6.878 | 0.0 | 41.233 | 5.463 | 0.0 | 43.477 | 5.48  |
| 128 | 3120 | 3121 | SN | 1 | 0.0 | 44.396 | 8.898 | 0.0 | 52.023 | 7.537 | 0.0 | 41.413 | 5.955 | 0.0 | 45.052 | 5.904 | 0.0 | 43.94  | 8.161 | 0.0 | 54.803 | 6.87  | 0.0 | 41.233 | 5.524 | 0.0 | 43.477 | 5.48  |
| 129 | 3120 | 3121 | SN | 1 | 0.0 | 41.69  | 2.788 | 0.0 | 47.477 | 2.285 | 0.0 | 43.741 | 1.801 | 0.0 | 42.676 | 1.797 | 0.0 | 41.918 | 2.464 | 0.0 | 45.974 | 2.091 | 0.0 | 46.098 | 1.629 | 0.0 | 42.086 | 1.607 |
| 130 | 3120 | 3121 | SN | 1 | 0.0 | 41.69  | 2.756 | 0.0 | 47.477 | 2.259 | 0.0 | 43.741 | 1.787 | 0.0 | 42.676 | 1.777 | 0.0 | 41.918 | 2.434 | 0.0 | 45.974 | 2.067 | 0.0 | 46.098 | 1.613 | 0.0 | 42.086 | 1.589 |
| 131 | 3120 | 3121 | SN | 1 | 0.0 | 41.69  | 2.756 | 0.0 | 47.477 | 2.282 | 0.0 | 43.741 | 1.787 | 0.0 | 42.676 | 1.793 | 0.0 | 41.918 | 2.434 | 0.0 | 45.974 | 2.09  | 0.0 | 46.098 | 1.613 | 0.0 | 42.086 | 1.603 |
| 132 | 3120 | 3121 | NS | 1 | 0.0 | 51.546 | 1.923 | 0.0 | 47.666 | 1.526 | 0.0 | 38.551 | 1.236 | 0.0 | 40.027 | 1.184 | 0.0 | 52.017 | 1.647 | 0.0 | 46.115 | 1.281 | 0.0 | 37.004 | 1.06  | 0.0 | 37.716 | 0.982 |
| 133 | 3121 | 3122 | SN | 1 | 0.0 | 53.129 | 2.777 | 0.0 | 50.655 | 2.641 | 0.0 | 40.903 | 1.918 | 0.0 | 43.392 | 1.995 | 0.0 | 51.98  | 2.488 | 0.0 | 51.999 | 2.341 | 0.0 | 41.799 | 1.751 | 0.0 | 41.147 | 1.759 |
| 134 | 3121 | 3122 | SN | 1 | 0.0 | 49.979 | 8.999 | 0.0 | 51.504 | 8.314 | 0.0 | 50.622 | 6.659 | 0.0 | 48.398 | 6.607 | 0.0 | 49.965 | 8.694 | 0.0 | 53.748 | 7.966 | 0.0 | 50.697 | 6.124 | 0.0 | 48.063 | 5.987 |
| 135 | 3121 | 3122 | NS | 1 | 0.0 | 50.505 | 7.236 | 0.0 | 52.165 | 6.083 | 0.0 | 47.847 | 5.022 | 0.0 | 46.962 | 4.893 | 0.0 | 48.786 | 6.282 | 0.0 | 50.496 | 5.168 | 0.0 | 48.862 | 4.374 | 0.0 | 45.179 | 4.259 |
| 136 | 3121 | 3122 | NS | 1 | 0.0 | 50.194 | 7.074 | 0.0 | 50.695 | 5.919 | 0.0 | 45.135 | 4.994 | 0.0 | 46.603 | 4.828 | 0.0 | 48.008 | 6.211 | 0.0 | 50.768 | 5.136 | 0.0 | 45.78  | 4.276 | 0.0 | 43.514 | 4.115 |
| 137 | 3121 | 3122 | SN | 1 | 0.0 | 49.979 | 8.412 | 0.0 | 51.504 | 7.884 | 0.0 | 50.622 | 6.215 | 0.0 | 48.398 | 6.264 | 0.0 | 49.965 | 8.108 | 0.0 | 53.748 | 7.525 | 0.0 | 50.697 | 5.697 | 0.0 | 48.063 | 5.638 |
| 138 | 3121 | 3122 | SN | 1 | 0.0 | 49.979 | 8.408 | 0.0 | 51.504 | 7.829 | 0.0 | 50.622 | 6.215 | 0.0 | 48.398 | 6.242 | 0.0 | 49.965 | 8.105 | 0.0 | 53.748 | 7.463 | 0.0 | 50.697 | 5.697 | 0.0 | 48.063 | 5.616 |
| 139 | 3121 | 3122 | SN | 1 | 0.0 | 53.129 | 2.977 | 0.0 | 50.655 | 2.831 | 0.0 | 40.903 | 2.05  | 0.0 | 43.392 | 2.129 | 0.0 | 51.98  | 2.671 | 0.0 | 51.999 | 2.513 | 0.0 | 41.799 | 1.879 | 0.0 | 41.147 | 1.881 |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal | Deviations |
|                          | Range      | 20.0 | 20.0   |        |            |

|     |      |      |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 140 | 3121 | 3122 | NS | 1 | 0.0 | 43.95  | 2.409 | 0.0 | 46.009 | 1.906 | 0.0 | 41.057 | 1.582 | 0.0 | 41.308 | 1.595 | 0.0 | 43.356 | 1.925 | 0.0 | 49.321 | 1.605 | 0.0 | 41.419 | 1.317 | 0.0 | 41.566 | 1.319 |
| 141 | 3121 | 3122 | NS | 1 | 0.0 | 44.957 | 2.428 | 0.0 | 47.929 | 1.988 | 0.0 | 41.952 | 1.507 | 0.0 | 41.588 | 1.583 | 0.0 | 48.144 | 1.992 | 0.0 | 52.656 | 1.694 | 0.0 | 38.324 | 1.281 | 0.0 | 41.866 | 1.246 |
| 142 | 3121 | 3122 | SN | 1 | 0.0 | 53.129 | 2.777 | 0.0 | 50.655 | 2.666 | 0.0 | 40.903 | 1.918 | 0.0 | 43.392 | 2.012 | 0.0 | 51.98  | 2.488 | 0.0 | 51.999 | 2.362 | 0.0 | 41.799 | 1.751 | 0.0 | 41.147 | 1.775 |
| 143 | 3122 | 3123 | NS | 1 | 0.0 | 45.807 | 1.426 | 0.0 | 44.065 | 1.211 | 0.0 | 40.279 | 1.207 | 0.0 | 43.958 | 1.181 | 0.0 | 44.692 | 1.175 | 0.0 | 43.212 | 1.007 | 0.0 | 42.382 | 0.976 | 0.0 | 40.444 | 0.969 |
| 144 | 3122 | 3123 | SN | 1 | 0.0 | 52.864 | 8.294 | 0.0 | 54.246 | 7.676 | 0.0 | 47.94  | 6.363 | 0.0 | 47.183 | 6.335 | 0.0 | 50.906 | 7.838 | 0.0 | 52.496 | 7.524 | 0.0 | 47.26  | 6.1   | 0.0 | 45.118 | 6.171 |
| 145 | 3122 | 3123 | SN | 1 | 0.0 | 52.864 | 8.899 | 0.0 | 54.246 | 8.24  | 0.0 | 47.94  | 6.779 | 0.0 | 47.183 | 6.804 | 0.0 | 50.906 | 8.438 | 0.0 | 52.496 | 8.085 | 0.0 | 47.26  | 6.524 | 0.0 | 45.118 | 6.641 |
| 146 | 3122 | 3123 | SN | 1 | 0.0 | 52.864 | 8.297 | 0.0 | 54.246 | 7.74  | 0.0 | 47.94  | 6.384 | 0.0 | 47.183 | 6.408 | 0.0 | 50.906 | 7.841 | 0.0 | 52.496 | 7.596 | 0.0 | 47.26  | 6.086 | 0.0 | 45.118 | 6.243 |
| 147 | 3122 | 3123 | SN | 1 | 0.0 | 48.978 | 2.885 | 0.0 | 46.914 | 2.871 | 0.0 | 45.053 | 1.901 | 0.0 | 43.712 | 1.935 | 0.0 | 47.171 | 2.679 | 0.0 | 47.548 | 2.682 | 0.0 | 47.403 | 1.832 | 0.0 | 41.61  | 1.89  |
| 148 | 3122 | 3123 | SN | 1 | 0.0 | 48.978 | 2.885 | 0.0 | 46.914 | 2.844 | 0.0 | 45.053 | 1.91  | 0.0 | 43.712 | 1.915 | 0.0 | 47.171 | 2.684 | 0.0 | 47.548 | 2.657 | 0.0 | 47.403 | 1.839 | 0.0 | 41.61  | 1.873 |
| 149 | 3122 | 3123 | NS | 1 | 0.0 | 43.986 | 4.992 | 0.0 | 50.975 | 4.374 | 0.0 | 41.361 | 3.748 | 0.0 | 41.769 | 3.388 | 0.0 | 44.362 | 4.261 | 0.0 | 49.025 | 3.652 | 0.0 | 40.639 | 3.364 | 0.0 | 40.641 | 3.074 |
| 150 | 3122 | 3123 | SN | 1 | 0.0 | 48.978 | 3.109 | 0.0 | 46.914 | 3.069 | 0.0 | 45.053 | 2.036 | 0.0 | 43.712 | 2.066 | 0.0 | 47.171 | 2.893 | 0.0 | 47.548 | 2.877 | 0.0 | 47.403 | 1.969 | 0.0 | 41.61  | 2.023 |
| 151 | 3122 | 3123 | NS | 1 | 0.0 | 54.182 | 1.516 | 0.0 | 52.216 | 1.23  | 0.0 | 37.775 | 1.271 | 0.0 | 41.822 | 1.205 | 0.0 | 49.92  | 1.249 | 0.0 | 50.643 | 1.07  | 0.0 | 36.476 | 1.077 | 0.0 | 40.16  | 1.007 |
| 152 | 3122 | 3123 | NS | 1 | 0.0 | 44.914 | 5.114 | 0.0 | 45.954 | 4.16  | 0.0 | 48.361 | 3.55  | 0.0 | 41.86  | 3.373 | 0.0 | 42.786 | 4.262 | 0.0 | 47.158 | 3.682 | 0.0 | 48.856 | 3.237 | 0.0 | 39.219 | 2.888 |
| 153 | 3123 | 3124 | NS | 1 | 0.0 | 49.089 | 2.334 | 0.0 | 45.899 | 1.859 | 0.0 | 42.651 | 1.594 | 0.0 | 39.911 | 1.637 | 0.0 | 47.205 | 2.018 | 0.0 | 44.092 | 1.546 | 0.0 | 41.903 | 1.404 | 0.0 | 40.986 | 1.354 |
| 154 | 3123 | 3124 | SN | 1 | 0.0 | 44.267 | 8.566 | 0.0 | 52.374 | 8.391 | 0.0 | 45.524 | 6.427 | 0.0 | 50.786 | 6.287 | 0.0 | 44.927 | 9.295 | 0.0 | 52.614 | 9.05  | 0.0 | 46.03  | 7.066 | 0.0 | 50.41  | 6.949 |
| 155 | 3123 | 3124 | NS | 1 | 0.0 | 47.365 | 6.993 | 0.0 | 48.181 | 6.155 | 0.0 | 41.919 | 5.129 | 0.0 | 44.956 | 5.064 | 0.0 | 47.72  | 6.323 | 0.0 | 47.132 | 5.453 | 0.0 | 40.05  | 4.503 | 0.0 | 45.89  | 4.258 |
| 156 | 3123 | 3124 | NS | 1 | 0.0 | 46.999 | 6.932 | 0.0 | 50.967 | 5.88  | 0.0 | 43.922 | 5.115 | 0.0 | 46.863 | 5.0   | 0.0 | 47.498 | 6.262 | 0.0 | 50.634 | 5.148 | 0.0 | 44.561 | 4.595 | 0.0 | 49.177 | 4.423 |
| 157 | 3123 | 3124 | NS | 1 | 0.0 | 52.214 | 2.375 | 0.0 | 47.58  | 1.777 | 0.0 | 41.334 | 1.654 | 0.0 | 39.286 | 1.553 | 0.0 | 51.653 | 2.009 | 0.0 | 45.998 | 1.497 | 0.0 | 40.934 | 1.374 | 0.0 | 37.256 | 1.283 |
| 158 | 3123 | 3124 | NS | 1 | 0.0 | 52.214 | 2.375 | 0.0 | 47.58  | 1.777 | 0.0 | 41.334 | 1.654 | 0.0 | 39.286 | 1.553 | 0.0 | 51.653 | 2.009 | 0.0 | 45.998 | 1.497 | 0.0 | 40.934 | 1.374 | 0.0 | 37.256 | 1.283 |
| 159 | 3123 | 3124 | NS | 1 | 0.0 | 46.999 | 6.932 | 0.0 | 50.967 | 5.88  | 0.0 | 43.922 | 5.115 | 0.0 | 46.863 | 5.0   | 0.0 | 47.498 | 6.262 | 0.0 | 50.634 | 5.148 | 0.0 | 44.561 | 4.595 | 0.0 | 49.177 | 4.423 |
| 160 | 3123 | 3124 | SN | 1 | 0.0 | 51.982 | 2.937 | 0.0 | 53.064 | 2.797 | 0.0 | 43.675 | 1.954 | 0.0 | 39.218 | 1.963 | 0.0 | 51.718 | 3.322 | 0.0 | 52.24  | 3.115 | 0.0 | 42.395 | 2.174 | 0.0 | 38.015 | 2.097 |
| 161 | 3124 | 3125 | NS | 1 | 0.0 | 48.229 | 5.935 | 0.0 | 49.928 | 5.175 | 0.0 | 43.138 | 4.829 | 0.0 | 38.873 | 4.4   | 0.0 | 46.839 | 5.884 | 0.0 | 51.205 | 5.124 | 0.0 | 43.317 | 4.694 | 0.0 | 42.576 | 4.407 |
| 162 | 3124 | 3125 | NS | 1 | 0.0 | 43.762 | 2.037 | 0.0 | 41.998 | 1.781 | 0.0 | 38.236 | 1.615 | 0.0 | 39.404 | 1.477 | 0.0 | 46.741 | 2.008 | 0.0 | 42.388 | 1.733 | 0.0 | 39.96  | 1.581 | 0.0 | 40.816 | 1.365 |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal | Deviations |
|                          | Range      | 20.0 | 20.0   |        |            |

| Sr No | Start Orbit | End Orbit | Dir. | Ver. | Azimuth Angle |        |            |            |         |            |           |         |            |            |         |            | Incidence Angle |       |            |            |       |            |           |       |            |            |       |            |
|-------|-------------|-----------|------|------|---------------|--------|------------|------------|---------|------------|-----------|---------|------------|------------|---------|------------|-----------------|-------|------------|------------|-------|------------|-----------|-------|------------|------------|-------|------------|
|       |             |           |      |      | Inner Aft     |        |            | Inner Fore |         |            | Outer Aft |         |            | Outer Fore |         |            | Inner Aft       |       |            | Inner Fore |       |            | Outer Aft |       |            | Outer Fore |       |            |
|       |             |           |      |      | Min           | Max    | BadOcc (%) | Min        | Max     | BadOcc (%) | Min       | Max     | BadOcc (%) | Min        | Max     | BadOcc (%) | Min             | Max   | BadOcc (%) | Min        | Max   | BadOcc (%) | Min       | Max   | BadOcc (%) | Min        | Max   | BadOcc (%) |
| 1     | 3100        | 3101      | SN   | 1    | 0.0           | 24.762 | 9.31       | 0.0        | 26.18   | 9.269      | 0.0       | 194.779 | 3.569      | 0.0        | 84.258  | 3.53       | 0.0             | 1.898 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.077 | 0.0        |
| 2     | 3100        | 3101      | SN   | 1    | 0.0           | 24.762 | 9.304      | 0.0        | 26.18   | 9.304      | 0.0       | 194.779 | 3.569      | 0.0        | 84.258  | 3.569      | 0.0             | 1.898 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.077 | 0.0        |
| 3     | 3100        | 3101      | SN   | 1    | 0.0           | 30.702 | 15.964     | 0.0        | 26.759  | 14.577     | 0.0       | 192.098 | 13.959     | 0.0        | 14.3    | 12.62      | 0.0             | 1.901 | 0.0        | 0.0        | 1.923 | 0.0        | 0.0       | 2.049 | 0.0        | 0.0        | 2.075 | 0.0        |
| 4     | 3100        | 3101      | SN   | 1    | 0.0           | 24.762 | 9.5        | 0.0        | 26.18   | 9.241      | 0.0       | 194.779 | 3.773      | 0.0        | 13.01   | 3.486      | 0.0             | 1.898 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.077 | 0.0        |
| 5     | 3100        | 3101      | SN   | 1    | 0.0           | 30.426 | 15.868     | 0.0        | 26.759  | 15.064     | 0.0       | 192.098 | 13.435     | 0.0        | 77.99   | 13.451     | 0.0             | 1.901 | 0.0        | 0.0        | 1.923 | 0.0        | 0.0       | 2.049 | 0.0        | 0.0        | 2.075 | 0.0        |
| 6     | 3100        | 3101      | SN   | 1    | 0.0           | 30.702 | 15.862     | 0.0        | 26.759  | 15.036     | 0.0       | 192.098 | 13.435     | 0.0        | 77.99   | 13.339     | 0.0             | 1.901 | 0.0        | 0.0        | 1.923 | 0.0        | 0.0       | 2.049 | 0.0        | 0.0        | 2.075 | 0.0        |
| 7     | 3101        | 3102      | SN   | 1    | 0.0           | 30.448 | 15.828     | 0.0        | 134.751 | 15.023     | 0.0       | 177.522 | 13.429     | 0.0        | 79.165  | 13.494     | 0.0             | 1.901 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.05  | 0.0        | 0.0        | 2.071 | 0.0        |
| 8     | 3101        | 3102      | SN   | 1    | 0.0           | 24.779 | 9.299      | 0.0        | 133.058 | 9.345      | 0.0       | 187.201 | 3.596      | 0.0        | 143.112 | 3.57       | 0.0             | 1.894 | 0.0        | 0.0        | 1.922 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.075 | 0.0        |
| 9     | 3101        | 3102      | SN   | 1    | 0.0           | 24.779 | 9.304      | 0.0        | 133.058 | 9.312      | 0.0       | 187.201 | 3.596      | 0.0        | 143.101 | 3.53       | 0.0             | 1.894 | 0.0        | 0.0        | 1.922 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.075 | 0.0        |
| 10    | 3101        | 3102      | NS   | 1    | 0.0           | 25.976 | 8.489      | 0.0        | 25.915  | 8.701      | 0.0       | 355.798 | 2.315      | 0.0        | 60.93   | 2.658      | 0.0             | 1.893 | 0.0        | 0.0        | 1.895 | 0.0        | 0.0       | 2.027 | 0.0        | 0.0        | 2.014 | 0.0        |
| 11    | 3101        | 3102      | SN   | 1    | 0.0           | 31.027 | 15.848     | 0.0        | 134.751 | 14.801     | 0.0       | 177.522 | 13.608     | 0.0        | 15.668  | 13.015     | 0.0             | 1.901 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.05  | 0.0        | 0.0        | 2.071 | 0.0        |
| 12    | 3101        | 3102      | SN   | 1    | 0.0           | 31.027 | 15.821     | 0.0        | 134.751 | 14.987     | 0.0       | 177.522 | 13.429     | 0.0        | 79.16   | 13.381     | 0.0             | 1.901 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.05  | 0.0        | 0.0        | 2.071 | 0.0        |
| 13    | 3101        | 3102      | NS   | 1    | 0.0           | 25.033 | 15.027     | 0.0        | 30.007  | 15.408     | 0.0       | 355.682 | 11.079     | 0.0        | 46.072  | 12.215     | 0.0             | 1.903 | 0.0        | 0.0        | 1.901 | 0.0        | 0.0       | 2.03  | 0.0        | 0.0        | 2.021 | 0.0        |
| 14    | 3101        | 3102      | NS   | 1    | 0.0           | 25.215 | 15.025     | 0.0        | 32.803  | 15.373     | 0.0       | 357.242 | 11.067     | 0.0        | 49.194  | 12.187     | 0.0             | 1.903 | 0.0        | 0.0        | 1.901 | 0.0        | 0.0       | 2.031 | 0.0        | 0.0        | 2.022 | 0.0        |
| 15    | 3101        | 3102      | NS   | 1    | 0.0           | 25.976 | 8.494      | 0.0        | 25.909  | 8.72       | 0.0       | 345.744 | 2.323      | 0.0        | 45.002  | 2.645      | 0.0             | 1.893 | 0.0        | 0.0        | 1.895 | 0.0        | 0.0       | 2.026 | 0.0        | 0.0        | 2.013 | 0.0        |
| 16    | 3101        | 3102      | SN   | 1    | 0.0           | 24.779 | 9.379      | 0.0        | 133.058 | 9.292      | 0.0       | 187.201 | 3.664      | 0.0        | 13.032  | 3.418      | 0.0             | 1.894 | 0.0        | 0.0        | 1.922 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.075 | 0.0        |
| 17    | 3102        | 3103      | NS   | 1    | 0.0           | 25.97  | 8.599      | 0.0        | 25.909  | 8.681      | 0.0       | 346.179 | 2.318      | 0.0        | 45.372  | 2.654      | 0.0             | 1.893 | 0.0        | 0.0        | 1.894 | 0.0        | 0.0       | 2.025 | 0.0        | 0.0        | 2.012 | 0.0        |
| 18    | 3102        | 3103      | NS   | 1    | 0.0           | 25.011 | 15.019     | 0.0        | 30.04   | 15.381     | 0.0       | 355.77  | 11.144     | 0.0        | 50.236  | 12.15      | 0.0             | 1.902 | 0.0        | 0.0        | 1.903 | 0.0        | 0.0       | 2.03  | 0.0        | 0.0        | 2.019 | 0.0        |
| 19    | 3102        | 3103      | SN   | 1    | 0.0           | 24.768 | 9.368      | 0.0        | 26.202  | 9.317      | 0.0       | 185.265 | 3.597      | 0.0        | 13.054  | 3.431      | 0.0             | 1.894 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.079 | 0.0        |
| 20    | 3102        | 3103      | NS   | 1    | 0.0           | 25.016 | 15.019     | 0.0        | 30.04   | 15.391     | 0.0       | 355.77  | 11.115     | 0.0        | 50.22   | 12.157     | 0.0             | 1.903 | 0.0        | 0.0        | 1.903 | 0.0        | 0.0       | 2.03  | 0.0        | 0.0        | 2.019 | 0.0        |
| 21    | 3102        | 3103      | NS   | 1    | 0.0           | 25.97  | 8.597      | 0.0        | 25.909  | 8.686      | 0.0       | 346.185 | 2.32       | 0.0        | 45.383  | 2.654      | 0.0             | 1.893 | 0.0        | 0.0        | 1.894 | 0.0        | 0.0       | 2.025 | 0.0        | 0.0        | 2.012 | 0.0        |
| 22    | 3102        | 3103      | SN   | 1    | 0.0           | 30.415 | 15.887     | 0.0        | 26.77   | 14.989     | 0.0       | 177.412 | 13.415     | 0.0        | 79.788  | 13.507     | 0.0             | 1.898 | 0.0        | 0.0        | 1.924 | 0.0        | 0.0       | 2.049 | 0.0        | 0.0        | 2.063 | 0.0        |
| 23    | 3102        | 3103      | SN   | 1    | 0.0           | 30.912 | 15.9       | 0.0        | 26.77   | 14.839     | 0.0       | 177.445 | 13.546     | 0.0        | 18.966  | 13.186     | 0.0             | 1.898 | 0.0        | 0.0        | 1.924 | 0.0        | 0.0       | 2.049 | 0.0        | 0.0        | 2.063 | 0.0        |
| 24    | 3102        | 3103      | SN   | 1    | 0.0           | 24.768 | 9.331      | 0.0        | 26.202  | 9.345      | 0.0       | 185.205 | 3.55       | 0.0        | 145.069 | 3.578      | 0.0             | 1.894 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.043 | 0.0        | 0.0        | 2.078 | 0.0        |
| 25    | 3103        | 3104      | SN   | 1    | 0.0           | 33.25  | 15.955     | 0.0        | 26.786  | 14.68      | 0.0       | 172.983 | 13.656     | 0.0        | 16.964  | 13.034     | 0.0             | 1.903 | 0.0        | 0.0        | 1.923 | 0.0        | 0.0       | 2.05  | 0.0        | 0.0        | 2.094 | 0.0        |
| 26    | 3103        | 3104      | SN   | 1    | 0.0           | 24.773 | 9.338      | 0.0        | 26.196  | 9.35       | 0.0       | 191.994 | 3.552      | 0.0        | 91.447  | 3.596      | 0.0             | 1.897 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.044 | 0.0        | 0.0        | 2.077 | 0.0        |
| 27    | 3103        | 3104      | NS   | 1    | 0.0           | 25.016 | 15.096     | 0.0        | 30.051  | 15.418     | 0.0       | 355.88  | 11.053     | 0.0        | 50.523  | 12.157     | 0.0             | 1.903 | 0.0        | 0.0        | 1.901 | 0.0        | 0.0       | 2.031 | 0.0        | 0.0        | 2.019 | 0.0        |
| 28    | 3103        | 3104      | NS   | 1    | 0.0           | 25.97  | 8.695      | 0.0        | 25.909  | 8.658      | 0.0       | 302.804 | 2.306      | 0.0        | 45.714  | 2.633      | 0.0             | 1.892 | 0.0        | 0.0        | 1.895 | 0.0        | 0.0       | 2.025 | 0.0        | 0.0        | 2.014 | 0.0        |
| 29    | 3103        | 3104      | SN   | 1    | 0.0           | 24.773 | 9.409      | 0.0        | 26.196  | 9.307      | 0.0       | 191.994 | 3.608      | 0.0        | 13.026  | 3.441      | 0.0             | 1.897 | 0.0        | 0.0        | 1.921 | 0.0        | 0.0       | 2.044 | 0.0        | 0.0        | 2.077 | 0.0        |
| 30    | 3103        | 3104      | SN   | 1    | 0.0           | 33.25  | 15.924     | 0.0        | 26.786  | 14.984     | 0.0       | 172.983 | 13.496     | 0.0        | 68.419  | 13.475     | 0.0             | 1.903 | 0.0        | 0.0        | 1.923 | 0.0        | 0.0       | 2.05  | 0.0        | 0.0        | 2.094 | 0.0        |
| 31    | 3104        | 3105      | SN   | 1    | 0.0           | 24.773 | 9.334      | 0.0        | 26.196  | 9.342      | 0.0       | 242.368 | 3.526      | 0.0        | 86.952  | 3.558      | 0.0             | 1.896 | 0.0        | 0.0        | 1.925 | 0.0        | 0.0       | 2.044 | 0.0        | 0.0        | 2.079 | 0.0        |

|                          |            |           |            |          |             |
|--------------------------|------------|-----------|------------|----------|-------------|
| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal   | Deviations  |
|                          | Range      | 10.0      | 3.0        | Alarming | High Errors |

|    |      |      |    |   |     |        |        |     |        |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 32 | 3104 | 3105 | SN | 1 | 0.0 | 33.272 | 15.919 | 0.0 | 26.742 | 14.918 | 0.0 | 190.086 | 13.524 | 0.0 | 69.958  | 13.398 | 0.0 | 1.902 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.05  | 0.0 | 0.0 | 2.096 | 0.0 |
| 33 | 3104 | 3105 | NS | 1 | 0.0 | 25.033 | 15.054 | 0.0 | 30.25  | 15.333 | 0.0 | 357.391 | 11.017 | 0.0 | 50.992  | 12.106 | 0.0 | 1.903 | 0.0 | 0.0 | 1.892 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.02  | 0.0 |
| 34 | 3104 | 3105 | SN | 1 | 0.0 | 24.773 | 9.327  | 0.0 | 26.196 | 9.375  | 0.0 | 242.368 | 3.526  | 0.0 | 86.952  | 3.598  | 0.0 | 1.896 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.044 | 0.0 | 0.0 | 2.079 | 0.0 |
| 35 | 3104 | 3105 | SN | 1 | 0.0 | 33.272 | 15.926 | 0.0 | 26.742 | 14.962 | 0.0 | 190.086 | 13.524 | 0.0 | 69.958  | 13.519 | 0.0 | 1.902 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.05  | 0.0 | 0.0 | 2.096 | 0.0 |
| 36 | 3104 | 3105 | NS | 1 | 0.0 | 25.97  | 8.702  | 0.0 | 25.909 | 8.67   | 0.0 | 351.126 | 2.291  | 0.0 | 46.188  | 2.628  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.014 | 0.0 |
| 37 | 3105 | 3106 | SN | 1 | 0.0 | 24.773 | 9.334  | 0.0 | 26.185 | 9.325  | 0.0 | 154.569 | 3.615  | 0.0 | 143.917 | 3.556  | 0.0 | 1.899 | 0.0 | 0.0 | 1.922 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.08  | 0.0 |
| 38 | 3105 | 3106 | SN | 1 | 0.0 | 24.773 | 9.327  | 0.0 | 26.185 | 9.359  | 0.0 | 154.569 | 3.615  | 0.0 | 143.917 | 3.596  | 0.0 | 1.899 | 0.0 | 0.0 | 1.922 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.08  | 0.0 |
| 39 | 3105 | 3106 | NS | 1 | 0.0 | 25.005 | 15.063 | 0.0 | 33.487 | 15.36  | 0.0 | 349.858 | 11.028 | 0.0 | 52.712  | 12.145 | 0.0 | 1.903 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.02  | 0.0 |
| 40 | 3105 | 3106 | SN | 1 | 0.0 | 33.283 | 15.907 | 0.0 | 26.748 | 15.023 | 0.0 | 306.113 | 13.539 | 0.0 | 76.295  | 13.474 | 0.0 | 1.904 | 0.0 | 0.0 | 1.928 | 0.0 | 0.0 | 2.052 | 0.0 | 0.0 | 2.093 | 0.0 |
| 41 | 3105 | 3106 | SN | 1 | 0.0 | 33.283 | 15.914 | 0.0 | 26.748 | 14.979 | 0.0 | 306.113 | 13.555 | 0.0 | 76.283  | 13.355 | 0.0 | 1.904 | 0.0 | 0.0 | 1.928 | 0.0 | 0.0 | 2.052 | 0.0 | 0.0 | 2.093 | 0.0 |
| 42 | 3105 | 3106 | SN | 1 | 0.0 | 33.283 | 15.901 | 0.0 | 26.748 | 14.975 | 0.0 | 306.113 | 13.539 | 0.0 | 76.295  | 13.355 | 0.0 | 1.904 | 0.0 | 0.0 | 1.928 | 0.0 | 0.0 | 2.052 | 0.0 | 0.0 | 2.093 | 0.0 |
| 43 | 3105 | 3106 | NS | 1 | 0.0 | 25.97  | 8.675  | 0.0 | 25.921 | 8.658  | 0.0 | 349.003 | 2.296  | 0.0 | 41.666  | 2.646  | 0.0 | 1.894 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.012 | 0.0 |
| 44 | 3105 | 3106 | SN | 1 | 0.0 | 24.773 | 9.336  | 0.0 | 26.185 | 9.323  | 0.0 | 154.569 | 3.618  | 0.0 | 143.884 | 3.556  | 0.0 | 1.899 | 0.0 | 0.0 | 1.922 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.08  | 0.0 |
| 45 | 3106 | 3107 | NS | 1 | 0.0 | 25.016 | 15.051 | 0.0 | 33.504 | 15.353 | 0.0 | 350.272 | 11.034 | 0.0 | 53.495  | 12.188 | 0.0 | 1.902 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.021 | 0.0 |
| 46 | 3106 | 3107 | SN | 1 | 0.0 | 30.509 | 15.783 | 0.0 | 26.748 | 14.946 | 0.0 | 190.574 | 13.516 | 0.0 | 87.28   | 13.352 | 0.0 | 1.906 | 0.0 | 0.0 | 1.922 | 0.0 | 0.0 | 2.05  | 0.0 | 0.0 | 2.075 | 0.0 |
| 47 | 3106 | 3107 | SN | 1 | 0.0 | 24.779 | 9.351  | 0.0 | 26.174 | 9.309  | 0.0 | 185.006 | 3.612  | 0.0 | 84.686  | 3.545  | 0.0 | 1.895 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.044 | 0.0 | 0.0 | 2.079 | 0.0 |
| 48 | 3106 | 3107 | NS | 1 | 0.0 | 25.976 | 8.556  | 0.0 | 25.926 | 8.696  | 0.0 | 345.573 | 2.305  | 0.0 | 43.133  | 2.669  | 0.0 | 1.892 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.013 | 0.0 |
| 49 | 3106 | 3107 | SN | 1 | 0.0 | 24.779 | 9.337  | 0.0 | 26.174 | 9.341  | 0.0 | 184.957 | 3.608  | 0.0 | 84.73   | 3.581  | 0.0 | 1.894 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.044 | 0.0 | 0.0 | 2.079 | 0.0 |
| 50 | 3106 | 3107 | SN | 1 | 0.0 | 30.509 | 15.846 | 0.0 | 26.748 | 14.655 | 0.0 | 190.623 | 13.73  | 0.0 | 15.089  | 12.968 | 0.0 | 1.906 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.05  | 0.0 | 0.0 | 2.076 | 0.0 |
| 51 | 3106 | 3107 | NS | 1 | 0.0 | 25.016 | 15.051 | 0.0 | 33.504 | 15.363 | 0.0 | 350.266 | 11.034 | 0.0 | 53.484  | 12.195 | 0.0 | 1.902 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.021 | 0.0 |
| 52 | 3106 | 3107 | SN | 1 | 0.0 | 24.779 | 9.434  | 0.0 | 26.174 | 9.297  | 0.0 | 184.957 | 3.684  | 0.0 | 13.037  | 3.436  | 0.0 | 1.894 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.044 | 0.0 | 0.0 | 2.079 | 0.0 |
| 53 | 3106 | 3107 | SN | 1 | 0.0 | 30.41  | 15.8   | 0.0 | 26.748 | 14.978 | 0.0 | 190.623 | 13.523 | 0.0 | 87.319  | 13.501 | 0.0 | 1.906 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.05  | 0.0 | 0.0 | 2.076 | 0.0 |
| 54 | 3106 | 3107 | NS | 1 | 0.0 | 25.976 | 8.54   | 0.0 | 25.926 | 8.703  | 0.0 | 345.584 | 2.301  | 0.0 | 43.144  | 2.671  | 0.0 | 1.892 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.013 | 0.0 |
| 55 | 3107 | 3108 | SN | 1 | 0.0 | 30.509 | 15.803 | 0.0 | 26.753 | 14.986 | 0.0 | 197.23  | 13.431 | 0.0 | 69.246  | 13.352 | 0.0 | 1.9   | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.075 | 0.0 |
| 56 | 3107 | 3108 | NS | 1 | 0.0 | 25.027 | 15.04  | 0.0 | 33.542 | 15.416 | 0.0 | 349.031 | 11.062 | 0.0 | 54.472  | 12.181 | 0.0 | 1.909 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.022 | 0.0 |
| 57 | 3107 | 3108 | NS | 1 | 0.0 | 25.193 | 15.05  | 0.0 | 33.542 | 15.426 | 0.0 | 349.036 | 11.069 | 0.0 | 54.488  | 12.167 | 0.0 | 1.908 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.022 | 0.0 |
| 58 | 3107 | 3108 | NS | 1 | 0.0 | 25.981 | 8.384  | 0.0 | 25.926 | 8.716  | 0.0 | 315.13  | 2.287  | 0.0 | 51.94   | 2.687  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.015 | 0.0 |
| 59 | 3107 | 3108 | NS | 1 | 0.0 | 25.981 | 8.379  | 0.0 | 25.926 | 8.712  | 0.0 | 358.643 | 2.283  | 0.0 | 51.957  | 2.689  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.015 | 0.0 |
| 60 | 3107 | 3108 | SN | 1 | 0.0 | 24.779 | 9.306  | 0.0 | 26.169 | 9.334  | 0.0 | 165.615 | 3.635  | 0.0 | 83.624  | 3.568  | 0.0 | 1.896 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.08  | 0.0 |
| 61 | 3107 | 3108 | SN | 1 | 0.0 | 24.779 | 9.31   | 0.0 | 26.169 | 9.306  | 0.0 | 165.66  | 3.637  | 0.0 | 83.58   | 3.529  | 0.0 | 1.895 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.08  | 0.0 |
| 62 | 3107 | 3108 | SN | 1 | 0.0 | 30.625 | 16.015 | 0.0 | 26.753 | 14.459 | 0.0 | 197.291 | 14.165 | 0.0 | 14.295  | 12.498 | 0.0 | 1.9   | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.075 | 0.0 |
| 63 | 3107 | 3108 | SN | 1 | 0.0 | 24.779 | 9.561  | 0.0 | 26.169 | 9.295  | 0.0 | 165.615 | 3.922  | 0.0 | 13.043  | 3.534  | 0.0 | 1.896 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.08  | 0.0 |
| 64 | 3107 | 3108 | SN | 1 | 0.0 | 30.437 | 15.83  | 0.0 | 26.753 | 14.997 | 0.0 | 197.291 | 13.438 | 0.0 | 69.279  | 13.443 | 0.0 | 1.9   | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.075 | 0.0 |
| 65 | 3108 | 3109 | SN | 1 | 0.0 | 24.768 | 9.323  | 0.0 | 26.163 | 9.275  | 0.0 | 262.398 | 3.655  | 0.0 | 130.135 | 3.522  | 0.0 | 1.896 | 0.0 | 0.0 | 1.91  | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.083 | 0.0 |
| 66 | 3108 | 3109 | SN | 1 | 0.0 | 24.768 | 9.323  | 0.0 | 26.163 | 9.286  | 0.0 | 262.42  | 3.664  | 0.0 | 169.586 | 3.514  | 0.0 | 1.896 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.083 | 0.0 |
| 67 | 3108 | 3109 | SN | 1 | 0.0 | 30.779 | 15.816 | 0.0 | 26.704 | 14.97  | 0.0 | 353.012 | 13.348 | 0.0 | 70.134  | 13.267 | 0.0 | 1.901 | 0.0 | 0.0 | 1.926 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.075 | 0.0 |
| 68 | 3108 | 3109 | SN | 1 | 0.0 | 30.779 | 15.816 | 0.0 | 26.704 | 14.96  | 0.0 | 353.012 | 13.356 | 0.0 | 70.206  | 13.281 | 0.0 | 1.904 | 0.0 | 0.0 | 1.926 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.075 | 0.0 |

|                          |            |           |            |          |             |
|--------------------------|------------|-----------|------------|----------|-------------|
| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal   | Deviations  |
|                          | Range      | 10.0      | 3.0        | Alarming | High Errors |



|     |      |      |    |   |     |        |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|------|------|----|---|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 69  | 3108 | 3109 | NS | 1 | 0.0 | 25.022 | 15.072 | 0.0 | 33.542  | 15.457 | 0.0 | 350.04  | 11.019 | 0.0 | 55.178  | 12.209 | 0.0 | 1.902 | 0.0 | 0.0 | 1.894 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.021 | 0.0 |
| 70  | 3108 | 3109 | NS | 1 | 0.0 | 25.022 | 15.072 | 0.0 | 33.548  | 15.446 | 0.0 | 350.04  | 10.997 | 0.0 | 55.183  | 12.201 | 0.0 | 1.901 | 0.0 | 0.0 | 1.894 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.021 | 0.0 |
| 71  | 3108 | 3109 | NS | 1 | 0.0 | 25.981 | 8.347  | 0.0 | 25.932  | 8.727  | 0.0 | 355.395 | 2.292  | 0.0 | 57.632  | 2.694  | 0.0 | 1.893 | 0.0 | 0.0 | 1.894 | 0.0 | 0.0 | 2.026 | 0.0 | 0.0 | 2.015 | 0.0 |
| 72  | 3108 | 3109 | NS | 1 | 0.0 | 25.981 | 8.336  | 0.0 | 25.926  | 8.723  | 0.0 | 355.395 | 2.289  | 0.0 | 57.621  | 2.69   | 0.0 | 1.894 | 0.0 | 0.0 | 1.894 | 0.0 | 0.0 | 2.026 | 0.0 | 0.0 | 2.015 | 0.0 |
| 73  | 3109 | 3110 | NS | 1 | 0.0 | 25.976 | 8.381  | 0.0 | 25.932  | 8.739  | 0.0 | 337.703 | 2.279  | 0.0 | 59.518  | 2.688  | 0.0 | 1.892 | 0.0 | 0.0 | 1.893 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.014 | 0.0 |
| 74  | 3109 | 3110 | NS | 1 | 0.0 | 25.005 | 15.052 | 0.0 | 30.211  | 15.378 | 0.0 | 349.235 | 11.066 | 0.0 | 56.231  | 12.211 | 0.0 | 1.902 | 0.0 | 0.0 | 1.902 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.022 | 0.0 |
| 75  | 3109 | 3110 | NS | 1 | 0.0 | 25.005 | 15.052 | 0.0 | 30.211  | 15.378 | 0.0 | 349.235 | 11.066 | 0.0 | 56.231  | 12.211 | 0.0 | 1.902 | 0.0 | 0.0 | 1.902 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.022 | 0.0 |
| 76  | 3109 | 3110 | NS | 1 | 0.0 | 25.976 | 8.381  | 0.0 | 25.932  | 8.739  | 0.0 | 337.703 | 2.279  | 0.0 | 59.518  | 2.688  | 0.0 | 1.892 | 0.0 | 0.0 | 1.893 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.014 | 0.0 |
| 77  | 3115 | 3116 | NS | 1 | 0.0 | 25.981 | 8.23   | 0.0 | 25.932  | 8.785  | 0.0 | 355.709 | 2.291  | 0.0 | 56.716  | 2.712  | 0.0 | 1.894 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.016 | 0.0 |
| 78  | 3115 | 3116 | SN | 1 | 0.0 | 24.768 | 9.286  | 0.0 | 166.934 | 9.286  | 0.0 | 206.167 | 3.66   | 0.0 | 143.795 | 3.542  | 0.0 | 1.895 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.077 | 0.0 |
| 79  | 3115 | 3116 | SN | 1 | 0.0 | 24.768 | 9.293  | 0.0 | 166.934 | 9.25   | 0.0 | 206.167 | 3.658  | 0.0 | 143.74  | 3.502  | 0.0 | 1.895 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.077 | 0.0 |
| 80  | 3115 | 3116 | SN | 1 | 0.0 | 30.404 | 15.831 | 0.0 | 200.774 | 15.278 | 0.0 | 187.714 | 13.36  | 0.0 | 79.336  | 13.312 | 0.0 | 1.903 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.049 | 0.0 | 0.0 | 2.069 | 0.0 |
| 81  | 3115 | 3116 | SN | 1 | 0.0 | 31.408 | 15.821 | 0.0 | 200.774 | 14.87  | 0.0 | 187.714 | 13.623 | 0.0 | 14.212  | 12.665 | 0.0 | 1.903 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.049 | 0.0 | 0.0 | 2.069 | 0.0 |
| 82  | 3115 | 3116 | NS | 1 | 0.0 | 25.011 | 15.087 | 0.0 | 32.82   | 15.384 | 0.0 | 357.165 | 11.074 | 0.0 | 52.872  | 12.287 | 0.0 | 1.903 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.022 | 0.0 |
| 83  | 3115 | 3116 | SN | 1 | 0.0 | 31.408 | 15.823 | 0.0 | 200.774 | 15.25  | 0.0 | 187.714 | 13.36  | 0.0 | 79.32   | 13.203 | 0.0 | 1.903 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.049 | 0.0 | 0.0 | 2.069 | 0.0 |
| 84  | 3115 | 3116 | SN | 1 | 0.0 | 24.768 | 9.409  | 0.0 | 166.934 | 9.225  | 0.0 | 206.167 | 3.765  | 0.0 | 13.01   | 3.41   | 0.0 | 1.895 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.077 | 0.0 |
| 85  | 3116 | 3117 | SN | 1 | 0.0 | 33.355 | 15.836 | 0.0 | 26.709  | 15.22  | 0.0 | 181.493 | 13.397 | 0.0 | 68.364  | 13.324 | 0.0 | 1.904 | 0.0 | 0.0 | 1.91  | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.098 | 0.0 |
| 86  | 3116 | 3117 | NS | 1 | 0.0 | 25.976 | 8.235  | 0.0 | 25.943  | 8.741  | 0.0 | 343.51  | 2.293  | 0.0 | 45.885  | 2.697  | 0.0 | 1.893 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.015 | 0.0 |
| 87  | 3116 | 3117 | SN | 1 | 0.0 | 24.757 | 9.362  | 0.0 | 26.147  | 9.264  | 0.0 | 215.763 | 3.71   | 0.0 | 13.01   | 3.422  | 0.0 | 1.895 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.06  | 0.0 |
| 88  | 3116 | 3117 | NS | 1 | 0.0 | 25.976 | 8.232  | 0.0 | 25.943  | 8.743  | 0.0 | 343.51  | 2.291  | 0.0 | 45.885  | 2.692  | 0.0 | 1.893 | 0.0 | 0.0 | 1.897 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.015 | 0.0 |
| 89  | 3116 | 3117 | SN | 1 | 0.0 | 33.36  | 15.83  | 0.0 | 26.742  | 15.178 | 0.0 | 181.532 | 13.383 | 0.0 | 68.369  | 13.214 | 0.0 | 1.904 | 0.0 | 0.0 | 1.91  | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.098 | 0.0 |
| 90  | 3116 | 3117 | SN | 1 | 0.0 | 33.355 | 15.851 | 0.0 | 26.709  | 15.004 | 0.0 | 181.493 | 13.533 | 0.0 | 17.51   | 12.922 | 0.0 | 1.904 | 0.0 | 0.0 | 1.91  | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.098 | 0.0 |
| 91  | 3116 | 3117 | SN | 1 | 0.0 | 24.757 | 9.311  | 0.0 | 26.147  | 9.277  | 0.0 | 215.802 | 3.659  | 0.0 | 88.37   | 3.54   | 0.0 | 1.895 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.06  | 0.0 |
| 92  | 3116 | 3117 | NS | 1 | 0.0 | 25.005 | 15.065 | 0.0 | 30.652  | 15.406 | 0.0 | 357.231 | 11.132 | 0.0 | 50.688  | 12.315 | 0.0 | 1.903 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.021 | 0.0 |
| 93  | 3116 | 3117 | NS | 1 | 0.0 | 25.005 | 15.065 | 0.0 | 30.658  | 15.396 | 0.0 | 353.597 | 11.139 | 0.0 | 50.688  | 12.315 | 0.0 | 1.903 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.021 | 0.0 |
| 94  | 3116 | 3117 | SN | 1 | 0.0 | 24.757 | 9.307  | 0.0 | 26.147  | 9.313  | 0.0 | 215.763 | 3.66   | 0.0 | 88.397  | 3.584  | 0.0 | 1.895 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.06  | 0.0 |
| 95  | 3117 | 3118 | NS | 1 | 0.0 | 25.011 | 15.065 | 0.0 | 30.239  | 15.372 | 0.0 | 357.325 | 11.038 | 0.0 | 51.108  | 12.201 | 0.0 | 1.903 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.022 | 0.0 |
| 96  | 3117 | 3118 | SN | 1 | 0.0 | 24.768 | 9.293  | 0.0 | 26.163  | 9.272  | 0.0 | 213.254 | 3.657  | 0.0 | 86.489  | 3.524  | 0.0 | 1.897 | 0.0 | 0.0 | 1.924 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.074 | 0.0 |
| 97  | 3117 | 3118 | SN | 1 | 0.0 | 24.768 | 9.286  | 0.0 | 26.163  | 9.302  | 0.0 | 213.254 | 3.657  | 0.0 | 86.489  | 3.566  | 0.0 | 1.897 | 0.0 | 0.0 | 1.924 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.074 | 0.0 |
| 98  | 3117 | 3118 | NS | 1 | 0.0 | 25.976 | 8.268  | 0.0 | 25.921  | 8.731  | 0.0 | 354.981 | 2.261  | 0.0 | 46.359  | 2.686  | 0.0 | 1.892 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.014 | 0.0 |
| 99  | 3117 | 3118 | NS | 1 | 0.0 | 25.976 | 8.264  | 0.0 | 25.921  | 8.736  | 0.0 | 354.976 | 2.263  | 0.0 | 46.343  | 2.686  | 0.0 | 1.892 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.014 | 0.0 |
| 100 | 3117 | 3118 | SN | 1 | 0.0 | 24.768 | 9.346  | 0.0 | 26.169  | 9.266  | 0.0 | 213.26  | 3.711  | 0.0 | 13.015  | 3.413  | 0.0 | 1.895 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.074 | 0.0 |
| 101 | 3117 | 3118 | SN | 1 | 0.0 | 33.316 | 15.818 | 0.0 | 26.737  | 15.1   | 0.0 | 180.98  | 13.439 | 0.0 | 69.23   | 13.277 | 0.0 | 1.905 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.095 | 0.0 |
| 102 | 3117 | 3118 | SN | 1 | 0.0 | 33.316 | 15.825 | 0.0 | 26.737  | 15.158 | 0.0 | 180.98  | 13.439 | 0.0 | 68.656  | 13.396 | 0.0 | 1.905 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.095 | 0.0 |
| 103 | 3117 | 3118 | SN | 1 | 0.0 | 33.316 | 15.859 | 0.0 | 26.742  | 14.932 | 0.0 | 180.936 | 13.542 | 0.0 | 17.549  | 12.957 | 0.0 | 1.905 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.095 | 0.0 |
| 104 | 3117 | 3118 | NS | 1 | 0.0 | 25.011 | 15.065 | 0.0 | 30.239  | 15.392 | 0.0 | 357.325 | 11.017 | 0.0 | 51.096  | 12.215 | 0.0 | 1.903 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.022 | 0.0 |
| 105 | 3118 | 3119 | NS | 1 | 0.0 | 25.97  | 8.324  | 0.0 | 25.926  | 8.731  | 0.0 | 280.292 | 2.268  | 0.0 | 82.019  | 2.69   | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.015 | 0.0 |

| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal | Deviations |
|--------------------------|------------|-----------|------------|--------|------------|
|                          | Range      | 10.0      | 3.0        |        |            |

|     |      |      |    |   |     |        |        |     |        |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 106 | 3118 | 3119 | SN | 1 | 0.0 | 24.779 | 9.307  | 0.0 | 26.163 | 9.275  | 0.0 | 194.1   | 3.662  | 0.0 | 147.772 | 3.548  | 0.0 | 1.896 | 0.0 | 0.0 | 1.921 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.088 | 0.0 |
| 107 | 3118 | 3119 | NS | 1 | 0.0 | 25.97  | 8.328  | 0.0 | 25.926 | 8.732  | 0.0 | 280.336 | 2.271  | 0.0 | 82.047  | 2.695  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.024 | 0.0 | 0.0 | 2.015 | 0.0 |
| 108 | 3118 | 3119 | NS | 1 | 0.0 | 25.005 | 15.071 | 0.0 | 30.244 | 15.372 | 0.0 | 357.336 | 11.044 | 0.0 | 56.76   | 12.271 | 0.0 | 1.903 | 0.0 | 0.0 | 1.903 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.022 | 0.0 |
| 109 | 3118 | 3119 | NS | 1 | 0.0 | 25.005 | 15.062 | 0.0 | 30.244 | 15.372 | 0.0 | 357.336 | 11.023 | 0.0 | 56.744  | 12.242 | 0.0 | 1.903 | 0.0 | 0.0 | 1.903 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.022 | 0.0 |
| 110 | 3118 | 3119 | SN | 1 | 0.0 | 30.702 | 15.815 | 0.0 | 26.731 | 15.055 | 0.0 | 155.909 | 13.455 | 0.0 | 70.36   | 13.274 | 0.0 | 1.899 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.058 | 0.0 |
| 111 | 3118 | 3119 | SN | 1 | 0.0 | 30.708 | 15.835 | 0.0 | 26.731 | 15.045 | 0.0 | 155.992 | 13.419 | 0.0 | 70.36   | 13.266 | 0.0 | 1.898 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.059 | 0.0 |
| 112 | 3118 | 3119 | SN | 1 | 0.0 | 24.779 | 9.307  | 0.0 | 26.163 | 9.275  | 0.0 | 193.891 | 3.664  | 0.0 | 147.772 | 3.546  | 0.0 | 1.896 | 0.0 | 0.0 | 1.921 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.088 | 0.0 |
| 113 | 3119 | 3120 | SN | 1 | 0.0 | 33.206 | 15.891 | 0.0 | 26.742 | 15.066 | 0.0 | 203.961 | 13.448 | 0.0 | 70.939  | 13.292 | 0.0 | 1.903 | 0.0 | 0.0 | 1.924 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.093 | 0.0 |
| 114 | 3119 | 3120 | SN | 1 | 0.0 | 24.768 | 9.313  | 0.0 | 26.147 | 9.278  | 0.0 | 244.998 | 3.657  | 0.0 | 88.899  | 3.529  | 0.0 | 1.9   | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.073 | 0.0 |
| 115 | 3119 | 3120 | SN | 1 | 0.0 | 24.768 | 9.446  | 0.0 | 26.147 | 9.251  | 0.0 | 244.949 | 3.766  | 0.0 | 13.026  | 3.442  | 0.0 | 1.899 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.074 | 0.0 |
| 116 | 3119 | 3120 | NS | 1 | 0.0 | 25.976 | 8.288  | 0.0 | 25.932 | 8.751  | 0.0 | 288.228 | 2.293  | 0.0 | 47.363  | 2.708  | 0.0 | 1.894 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.015 | 0.0 |
| 117 | 3119 | 3120 | NS | 1 | 0.0 | 25.976 | 8.268  | 0.0 | 25.932 | 8.751  | 0.0 | 288.316 | 2.296  | 0.0 | 47.39   | 2.704  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.015 | 0.0 |
| 118 | 3119 | 3120 | SN | 1 | 0.0 | 33.2   | 15.935 | 0.0 | 26.709 | 14.64  | 0.0 | 203.856 | 13.723 | 0.0 | 14.096  | 12.712 | 0.0 | 1.903 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.094 | 0.0 |
| 119 | 3119 | 3120 | SN | 1 | 0.0 | 24.768 | 9.314  | 0.0 | 26.147 | 9.311  | 0.0 | 244.949 | 3.652  | 0.0 | 88.899  | 3.571  | 0.0 | 1.899 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.043 | 0.0 | 0.0 | 2.074 | 0.0 |
| 120 | 3119 | 3120 | NS | 1 | 0.0 | 25.005 | 15.051 | 0.0 | 30.255 | 15.362 | 0.0 | 357.441 | 11.045 | 0.0 | 57.373  | 12.278 | 0.0 | 1.902 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.022 | 0.0 |
| 121 | 3119 | 3120 | SN | 1 | 0.0 | 33.2   | 15.929 | 0.0 | 26.709 | 15.117 | 0.0 | 203.856 | 13.433 | 0.0 | 70.939  | 13.381 | 0.0 | 1.903 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.094 | 0.0 |
| 122 | 3119 | 3120 | NS | 1 | 0.0 | 25.005 | 15.041 | 0.0 | 30.255 | 15.382 | 0.0 | 357.441 | 11.066 | 0.0 | 57.406  | 12.271 | 0.0 | 1.902 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.022 | 0.0 |
| 123 | 3120 | 3121 | NS | 1 | 0.0 | 24.999 | 15.064 | 0.0 | 33.515 | 15.309 | 0.0 | 350.117 | 10.978 | 0.0 | 53.92   | 12.266 | 0.0 | 1.902 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.022 | 0.0 |
| 124 | 3120 | 3121 | NS | 1 | 0.0 | 24.999 | 15.064 | 0.0 | 33.515 | 15.309 | 0.0 | 350.117 | 10.978 | 0.0 | 53.92   | 12.266 | 0.0 | 1.902 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.022 | 0.0 |
| 125 | 3120 | 3121 | NS | 1 | 0.0 | 25.976 | 8.251  | 0.0 | 25.932 | 8.73   | 0.0 | 345.264 | 2.299  | 0.0 | 42.482  | 2.726  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.026 | 0.0 | 0.0 | 2.016 | 0.0 |
| 126 | 3120 | 3121 | SN | 1 | 0.0 | 30.514 | 15.724 | 0.0 | 26.726 | 15.018 | 0.0 | 185.417 | 13.417 | 0.0 | 87.865  | 13.295 | 0.0 | 1.9   | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.049 | 0.0 | 0.0 | 2.079 | 0.0 |
| 127 | 3120 | 3121 | SN | 1 | 0.0 | 30.421 | 15.73  | 0.0 | 26.726 | 15.081 | 0.0 | 185.417 | 13.417 | 0.0 | 87.865  | 13.422 | 0.0 | 1.9   | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.049 | 0.0 | 0.0 | 2.079 | 0.0 |
| 128 | 3120 | 3121 | SN | 1 | 0.0 | 30.514 | 15.728 | 0.0 | 26.726 | 14.93  | 0.0 | 185.417 | 13.518 | 0.0 | 20.527  | 13.131 | 0.0 | 1.9   | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.049 | 0.0 | 0.0 | 2.079 | 0.0 |
| 129 | 3120 | 3121 | SN | 1 | 0.0 | 24.784 | 9.366  | 0.0 | 26.147 | 9.26   | 0.0 | 180.545 | 3.694  | 0.0 | 13.026  | 3.453  | 0.0 | 1.897 | 0.0 | 0.0 | 1.937 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.055 | 0.0 |
| 130 | 3120 | 3121 | SN | 1 | 0.0 | 24.784 | 9.331  | 0.0 | 26.147 | 9.261  | 0.0 | 180.545 | 3.656  | 0.0 | 78.859  | 3.557  | 0.0 | 1.897 | 0.0 | 0.0 | 1.937 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.055 | 0.0 |
| 131 | 3120 | 3121 | SN | 1 | 0.0 | 24.784 | 9.322  | 0.0 | 26.147 | 9.296  | 0.0 | 180.545 | 3.656  | 0.0 | 78.859  | 3.597  | 0.0 | 1.897 | 0.0 | 0.0 | 1.937 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.055 | 0.0 |
| 132 | 3120 | 3121 | NS | 1 | 0.0 | 25.976 | 8.251  | 0.0 | 25.932 | 8.73   | 0.0 | 345.264 | 2.299  | 0.0 | 42.482  | 2.726  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.026 | 0.0 | 0.0 | 2.016 | 0.0 |
| 133 | 3121 | 3122 | SN | 1 | 0.0 | 24.773 | 9.315  | 0.0 | 26.147 | 9.254  | 0.0 | 181.526 | 3.635  | 0.0 | 122.276 | 3.538  | 0.0 | 1.894 | 0.0 | 0.0 | 1.927 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.068 | 0.0 |
| 134 | 3121 | 3122 | SN | 1 | 0.0 | 30.382 | 15.952 | 0.0 | 26.687 | 14.591 | 0.0 | 199.194 | 14.013 | 0.0 | 13.545  | 12.494 | 0.0 | 1.901 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.076 | 0.0 |
| 135 | 3121 | 3122 | NS | 1 | 0.0 | 25.011 | 15.04  | 0.0 | 30.123 | 15.432 | 0.0 | 350.316 | 11.061 | 0.0 | 37.011  | 12.298 | 0.0 | 1.903 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.022 | 0.0 |
| 136 | 3121 | 3122 | NS | 1 | 0.0 | 24.999 | 15.031 | 0.0 | 33.515 | 15.358 | 0.0 | 350.553 | 11.07  | 0.0 | 54.852  | 12.323 | 0.0 | 1.902 | 0.0 | 0.0 | 1.902 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.022 | 0.0 |
| 137 | 3121 | 3122 | SN | 1 | 0.0 | 30.382 | 15.811 | 0.0 | 26.687 | 15.111 | 0.0 | 199.194 | 13.389 | 0.0 | 69.726  | 13.357 | 0.0 | 1.901 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.076 | 0.0 |
| 138 | 3121 | 3122 | SN | 1 | 0.0 | 30.382 | 15.805 | 0.0 | 26.687 | 15.059 | 0.0 | 199.194 | 13.389 | 0.0 | 69.726  | 13.231 | 0.0 | 1.901 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.076 | 0.0 |
| 139 | 3121 | 3122 | SN | 1 | 0.0 | 24.773 | 9.531  | 0.0 | 26.147 | 9.24   | 0.0 | 181.526 | 3.878  | 0.0 | 13.01   | 3.503  | 0.0 | 1.894 | 0.0 | 0.0 | 1.927 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.068 | 0.0 |
| 140 | 3121 | 3122 | NS | 1 | 0.0 | 25.981 | 8.23   | 0.0 | 25.943 | 8.767  | 0.0 | 315.169 | 2.283  | 0.0 | 57.852  | 2.696  | 0.0 | 1.891 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.015 | 0.0 |
| 141 | 3121 | 3122 | NS | 1 | 0.0 | 25.981 | 8.252  | 0.0 | 25.948 | 8.757  | 0.0 | 339.225 | 2.309  | 0.0 | 75.208  | 2.727  | 0.0 | 1.893 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.015 | 0.0 |
| 142 | 3121 | 3122 | SN | 1 | 0.0 | 24.773 | 9.306  | 0.0 | 26.147 | 9.291  | 0.0 | 181.526 | 3.635  | 0.0 | 122.276 | 3.577  | 0.0 | 1.894 | 0.0 | 0.0 | 1.927 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.068 | 0.0 |

|                          |            |           |            |        |            |
|--------------------------|------------|-----------|------------|--------|------------|
| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal | Deviations |
|                          | Range      | 10.0      | 3.0        |        |            |

|     |      |      |    |   |     |        |        |     |        |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 143 | 3122 | 3123 | NS | 1 | 0.0 | 25.97  | 8.196  | 0.0 | 25.937 | 8.803  | 0.0 | 355.389 | 2.299  | 0.0 | 59.159  | 2.724  | 0.0 | 1.893 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.016 | 0.0 |
| 144 | 3122 | 3123 | SN | 1 | 0.0 | 30.382 | 15.828 | 0.0 | 26.704 | 15.078 | 0.0 | 353.068 | 13.301 | 0.0 | 75.285  | 13.153 | 0.0 | 1.901 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.074 | 0.0 |
| 145 | 3122 | 3123 | SN | 1 | 0.0 | 30.382 | 15.985 | 0.0 | 26.709 | 14.64  | 0.0 | 353.068 | 13.989 | 0.0 | 13.44   | 12.347 | 0.0 | 1.901 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.074 | 0.0 |
| 146 | 3122 | 3123 | SN | 1 | 0.0 | 30.382 | 15.834 | 0.0 | 26.704 | 15.182 | 0.0 | 353.068 | 13.294 | 0.0 | 75.771  | 13.306 | 0.0 | 1.901 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.074 | 0.0 |
| 147 | 3122 | 3123 | SN | 1 | 0.0 | 24.757 | 9.295  | 0.0 | 26.147 | 9.258  | 0.0 | 255.389 | 3.647  | 0.0 | 128.111 | 3.549  | 0.0 | 1.895 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.04  | 0.0 | 0.0 | 2.078 | 0.0 |
| 148 | 3122 | 3123 | SN | 1 | 0.0 | 24.757 | 9.306  | 0.0 | 26.147 | 9.209  | 0.0 | 255.389 | 3.647  | 0.0 | 131.773 | 3.507  | 0.0 | 1.895 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.04  | 0.0 | 0.0 | 2.078 | 0.0 |
| 149 | 3122 | 3123 | NS | 1 | 0.0 | 25.005 | 15.037 | 0.0 | 30.184 | 15.443 | 0.0 | 350.68  | 11.046 | 0.0 | 57.135  | 12.276 | 0.0 | 1.902 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.022 | 0.0 |
| 150 | 3122 | 3123 | SN | 1 | 0.0 | 24.757 | 9.532  | 0.0 | 26.147 | 9.231  | 0.0 | 255.389 | 3.923  | 0.0 | 13.004  | 3.482  | 0.0 | 1.895 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.04  | 0.0 | 0.0 | 2.078 | 0.0 |
| 151 | 3122 | 3123 | NS | 1 | 0.0 | 25.976 | 8.204  | 0.0 | 25.926 | 8.793  | 0.0 | 334.532 | 2.3    | 0.0 | 74.53   | 2.736  | 0.0 | 1.892 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.016 | 0.0 |
| 152 | 3122 | 3123 | NS | 1 | 0.0 | 25.016 | 15.028 | 0.0 | 30.184 | 15.348 | 0.0 | 350.04  | 11.034 | 0.0 | 55.883  | 12.316 | 0.0 | 1.902 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.023 | 0.0 |
| 153 | 3123 | 3124 | NS | 1 | 0.0 | 26.003 | 8.315  | 0.0 | 25.937 | 8.842  | 0.0 | 339.534 | 2.311  | 0.0 | 59.408  | 2.818  | 0.0 | 1.895 | 0.0 | 0.0 | 1.89  | 0.0 | 0.0 | 2.02  | 0.0 | 0.0 | 2.014 | 0.0 |
| 154 | 3123 | 3124 | SN | 1 | 0.0 | 33.178 | 15.846 | 0.0 | 26.648 | 15.209 | 0.0 | 353.178 | 13.35  | 0.0 | 72.379  | 13.165 | 0.0 | 1.902 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.088 | 0.0 |
| 155 | 3123 | 3124 | NS | 1 | 0.0 | 24.988 | 15.051 | 0.0 | 30.211 | 15.402 | 0.0 | 349.163 | 11.161 | 0.0 | 57.075  | 12.439 | 0.0 | 1.897 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.025 | 0.0 | 0.0 | 2.02  | 0.0 |
| 156 | 3123 | 3124 | NS | 1 | 0.0 | 24.961 | 15.041 | 0.0 | 30.211 | 15.432 | 0.0 | 354.457 | 11.047 | 0.0 | 57.091  | 12.262 | 0.0 | 1.902 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.024 | 0.0 |
| 157 | 3123 | 3124 | NS | 1 | 0.0 | 25.987 | 8.222  | 0.0 | 25.937 | 8.81   | 0.0 | 338.321 | 2.308  | 0.0 | 59.452  | 2.734  | 0.0 | 1.894 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.026 | 0.0 | 0.0 | 2.022 | 0.0 |
| 158 | 3123 | 3124 | NS | 1 | 0.0 | 25.987 | 8.222  | 0.0 | 25.937 | 8.81   | 0.0 | 338.321 | 2.308  | 0.0 | 59.452  | 2.734  | 0.0 | 1.894 | 0.0 | 0.0 | 1.895 | 0.0 | 0.0 | 2.026 | 0.0 | 0.0 | 2.022 | 0.0 |
| 159 | 3123 | 3124 | NS | 1 | 0.0 | 24.961 | 15.041 | 0.0 | 30.211 | 15.432 | 0.0 | 354.457 | 11.047 | 0.0 | 57.091  | 12.262 | 0.0 | 1.902 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.03  | 0.0 | 0.0 | 2.024 | 0.0 |
| 160 | 3123 | 3124 | SN | 1 | 0.0 | 24.773 | 9.315  | 0.0 | 26.136 | 9.218  | 0.0 | 256.442 | 3.641  | 0.0 | 72.82   | 3.517  | 0.0 | 1.895 | 0.0 | 0.0 | 1.937 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.055 | 0.0 |
| 161 | 3124 | 3125 | NS | 1 | 0.0 | 25.027 | 15.096 | 0.0 | 30.04  | 15.321 | 0.0 | 142.874 | 11.045 | 0.0 | 37.667  | 12.272 | 0.0 | 1.902 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.023 | 0.0 |
| 162 | 3124 | 3125 | NS | 1 | 0.0 | 25.97  | 8.235  | 0.0 | 25.937 | 8.789  | 0.0 | 355.478 | 2.289  | 0.0 | 66.98   | 2.754  | 0.0 | 1.893 | 0.0 | 0.0 | 1.896 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.018 | 0.0 |

|                          |            |           |            |          |             |
|--------------------------|------------|-----------|------------|----------|-------------|
| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal   | Deviations  |
|                          | Range      | 10.0      | 3.0        | Alarming | High Errors |