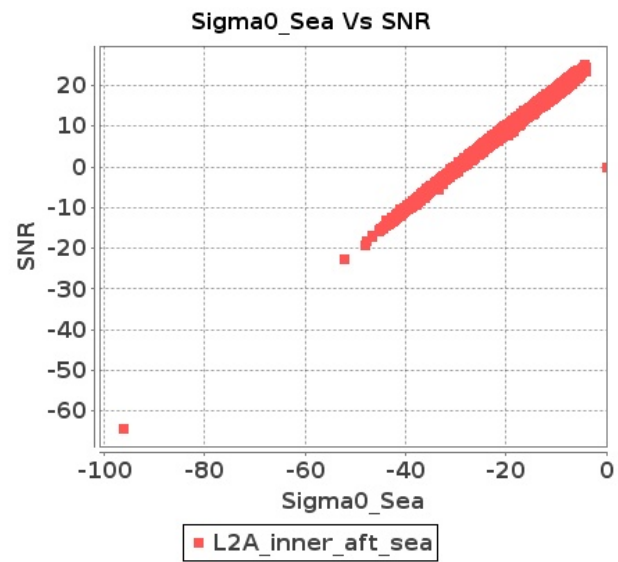


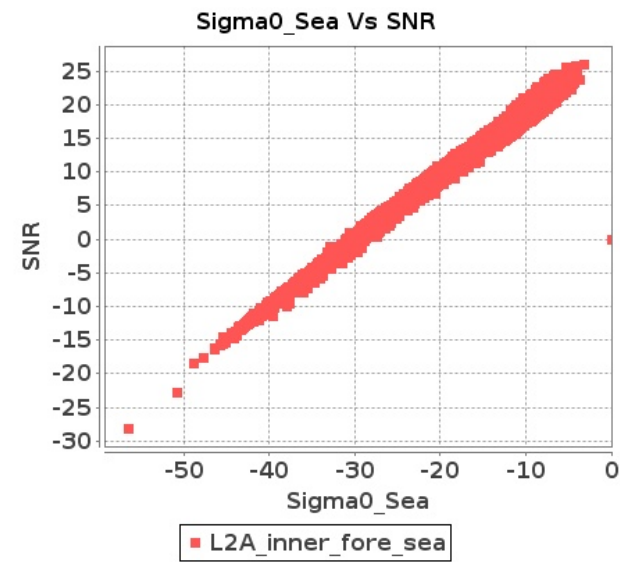
# SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 30-SEP-2019 To 01-OCT-2019

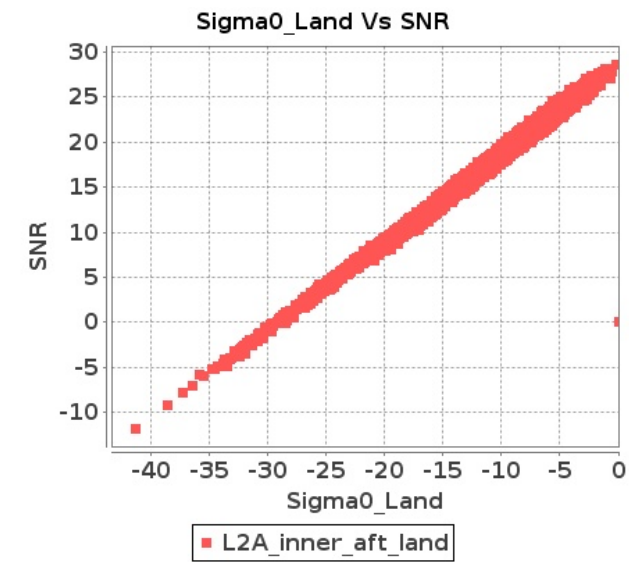
### Inner Sea Aft Sigma0VsSNR



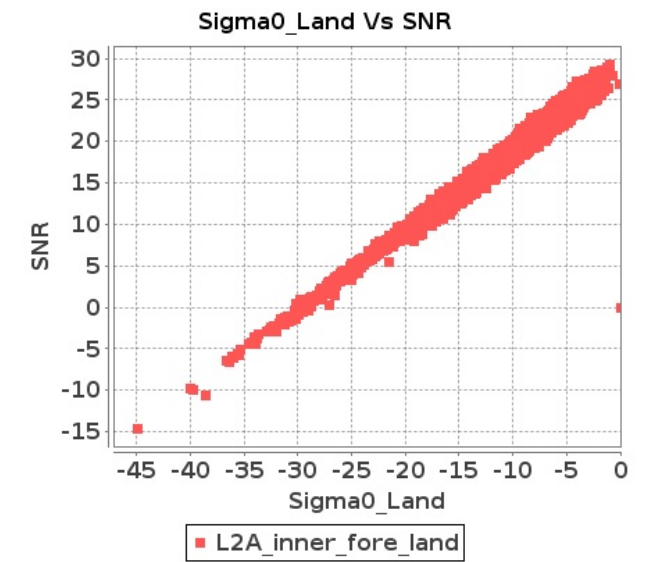
### Inner Sea Fore Sigma0VsSNR



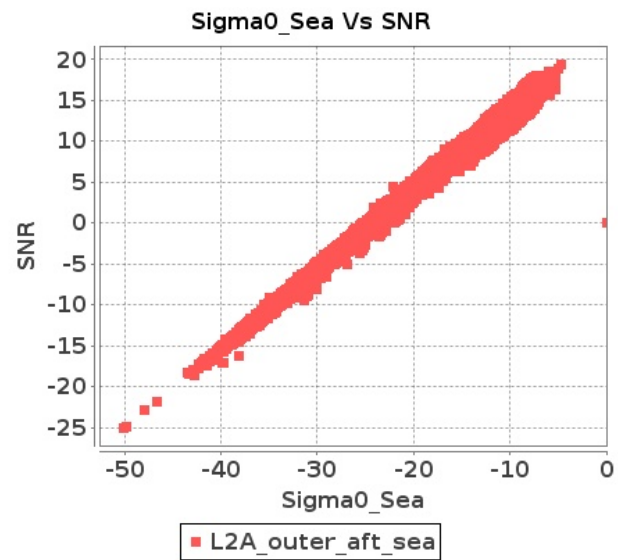
### Inner Land Aft Sigma0VsSNR



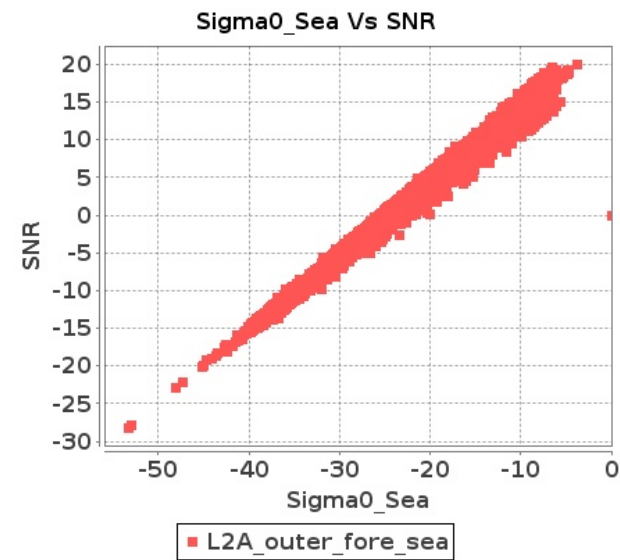
### Inner Land Fore Sigma0VsSNR



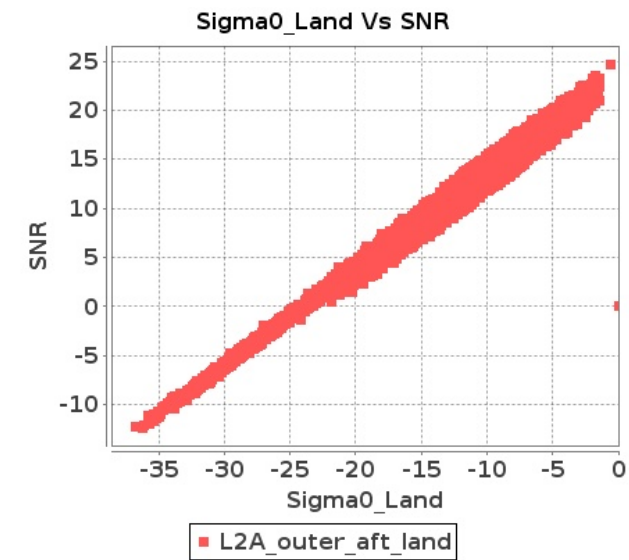
### Outer Sea Aft Sigma0VsSNR



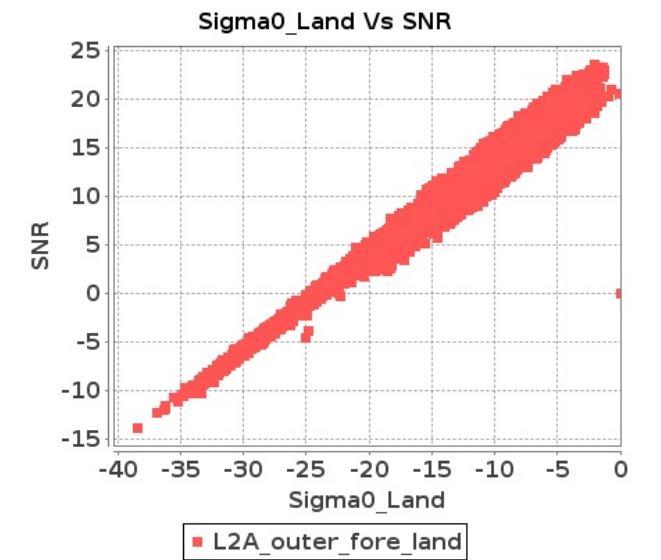
### Outer Sea Fore Sigma0VsSNR



### Outer Land Aft Sigma0VsSNR



### Outer Land Fore Sigma0VsSNR



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

Report between 30-SEP-2019 To 01-OCT-2019

| 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     | 15932       | 15933     | SN   | 1    | 0.0       | 44.521 | 1.241      | 0.0        | 48.659 | 1.565      | 0.0       | 47.697 | 1.086      | 0.0        | 37.385 | 1.561      | 0.0       | 45.503 | 1.275      | 0.0        | 47.275 | 1.509      | 0.0       | 44.785 | 1.093      | 0.0        | 36.172 | 1.403      |
| 2     | 15932       | 15933     | SN   | 1    | 0.0       | 44.521 | 1.237      | 0.0        | 48.918 | 1.568      | 0.0       | 46.577 | 1.093      | 0.0        | 36.673 | 1.55       | 0.0       | 45.503 | 1.268      | 0.0        | 47.532 | 1.502      | 0.0       | 44.023 | 1.1        | 0.0        | 35.298 | 1.401      |
| 3     | 15932       | 15933     | SN   | 1    | 0.0       | 44.521 | 1.284      | 0.0        | 48.918 | 1.597      | 0.0       | 46.577 | 1.046      | 0.0        | 37.953 | 1.574      | 0.0       | 45.503 | 1.332      | 0.0        | 47.532 | 1.535      | 0.0       | 44.023 | 1.064      | 0.0        | 35.298 | 1.451      |
| 4     | 15932       | 15933     | SN   | 1    | 0.0       | 52.327 | 5.13       | 0.0        | 52.914 | 5.793      | 0.0       | 43.822 | 4.08       | 0.0        | 46.042 | 4.988      | 0.0       | 51.999 | 5.119      | 0.0        | 53.928 | 5.388      | 0.0       | 42.437 | 3.976      | 0.0        | 44.6   | 4.6        |
| 5     | 15932       | 15933     | SN   | 1    | 0.0       | 49.923 | 4.939      | 0.0        | 51.981 | 5.676      | 0.0       | 43.822 | 4.112      | 0.0        | 46.042 | 4.952      | 0.0       | 51.999 | 4.898      | 0.0        | 53.928 | 5.25       | 0.0       | 42.735 | 4.006      | 0.0        | 44.909 | 4.582      |
| 6     | 15932       | 15933     | SN   | 1    | 0.0       | 49.923 | 4.939      | 0.0        | 51.722 | 5.656      | 0.0       | 43.805 | 4.105      | 0.0        | 46.942 | 4.966      | 0.0       | 51.999 | 4.898      | 0.0        | 52.64  | 5.27       | 0.0       | 42.736 | 3.978      | 0.0        | 46.123 | 4.603      |
| 7     | 15933       | 15934     | NS   | 1    | 0.0       | 51.58  | 1.558      | 0.0        | 49.055 | 2.144      | 0.0       | 39.526 | 1.343      | 0.0        | 45.937 | 1.987      | 0.0       | 51.02  | 1.562      | 0.0        | 48.333 | 2.0        | 0.0       | 40.943 | 1.369      | 0.0        | 44.927 | 1.858      |
| 8     | 15933       | 15934     | NS   | 1    | 0.0       | 51.58  | 1.556      | 0.0        | 53.958 | 2.14       | 0.0       | 40.808 | 1.35       | 0.0        | 49.959 | 2.012      | 0.0       | 52.396 | 1.544      | 0.0        | 49.923 | 1.988      | 0.0       | 40.984 | 1.355      | 0.0        | 49.228 | 1.87       |
| 9     | 15933       | 15934     | SN   | 1    | 0.0       | 40.089 | 0.746      | 0.0        | 40.327 | 1.198      | 0.0       | 38.786 | 0.982      | 0.0        | 43.537 | 1.378      | 0.0       | 41.408 | 0.721      | 0.0        | 41.534 | 1.049      | 0.0       | 36.913 | 0.901      | 0.0        | 41.725 | 1.146      |
| 10    | 15933       | 15934     | SN   | 1    | 0.0       | 41.139 | 2.756      | 0.0        | 46.599 | 3.774      | 0.0       | 41.173 | 3.112      | 0.0        | 48.859 | 4.003      | 0.0       | 40.918 | 2.787      | 0.0        | 47.145 | 3.3        | 0.0       | 41.829 | 3.048      | 0.0        | 48.888 | 3.396      |
| 11    | 15933       | 15934     | SN   | 1    | 0.0       | 40.089 | 0.751      | 0.0        | 40.326 | 1.204      | 0.0       | 38.786 | 1.0        | 0.0        | 43.537 | 1.386      | 0.0       | 41.408 | 0.721      | 0.0        | 41.534 | 1.05       | 0.0       | 36.913 | 0.917      | 0.0        | 41.725 | 1.162      |
| 12    | 15933       | 15934     | NS   | 1    | 0.0       | 58.424 | 6.124      | 0.0        | 50.909 | 7.513      | 0.0       | 50.087 | 4.875      | 0.0        | 49.017 | 5.984      | 0.0       | 58.724 | 6.236      | 0.0        | 50.292 | 7.076      | 0.0       | 49.22  | 4.868      | 0.0        | 46.466 | 5.841      |
| 13    | 15933       | 15934     | NS   | 1    | 0.0       | 59.368 | 6.195      | 0.0        | 49.866 | 7.493      | 0.0       | 45.68  | 4.939      | 0.0        | 49.017 | 5.955      | 0.0       | 59.667 | 6.307      | 0.0        | 50.126 | 7.086      | 0.0       | 46.822 | 4.846      | 0.0        | 46.466 | 5.891      |
| 14    | 15933       | 15934     | SN   | 1    | 0.0       | 40.089 | 0.751      | 0.0        | 40.326 | 1.204      | 0.0       | 38.786 | 0.998      | 0.0        | 43.537 | 1.386      | 0.0       | 41.408 | 0.724      | 0.0        | 41.534 | 1.05       | 0.0       | 36.913 | 0.915      | 0.0        | 41.725 | 1.162      |
| 15    | 15933       | 15934     | SN   | 1    | 0.0       | 41.088 | 2.816      | 0.0        | 46.599 | 3.788      | 0.0       | 41.173 | 3.149      | 0.0        | 48.859 | 4.027      | 0.0       | 40.869 | 2.846      | 0.0        | 47.145 | 3.32       | 0.0       | 41.829 | 3.078      | 0.0        | 48.888 | 3.429      |
| 16    | 15933       | 15934     | SN   | 1    | 0.0       | 41.088 | 2.816      | 0.0        | 46.599 | 3.798      | 0.0       | 41.173 | 3.142      | 0.0        | 48.859 | 4.027      | 0.0       | 40.869 | 2.846      | 0.0        | 47.145 | 3.331      | 0.0       | 41.829 | 3.071      | 0.0        | 48.888 | 3.429      |
| 17    | 15934       | 15935     | SN   | 1    | 0.0       | 42.261 | 3.526      | 0.204      | 43.177 | 4.455      | 0.0       | 41.65  | 3.303      | 0.0        | 41.851 | 4.88       | 0.0       | 44.383 | 3.649      | 0.139      | 41.27  | 4.126      | 0.0       | 41.858 | 3.224      | 0.0        | 41.003 | 4.253      |
| 18    | 15934       | 15935     | SN   | 1    | 0.0       | 40.9   | 1.007      | 0.0        | 42.314 | 1.311      | 0.0       | 44.699 | 1.035      | 0.0        | 43.669 | 1.629      | 0.0       | 43.252 | 1.019      | 0.0        | 40.565 | 1.247      | 0.0       | 45.048 | 0.968      | 0.0        | 40.947 | 1.466      |
| 19    | 15934       | 15935     | NS   | 1    | 0.0       | 46.916 | 4.804      | 0.0        | 48.587 | 6.362      | 0.0       | 40.468 | 4.362      | 0.0        | 43.189 | 5.976      | 0.0       | 47.21  | 4.997      | 0.0        | 49.294 | 6.464      | 0.0       | 40.395 | 4.426      | 0.0        | 43.291 | 6.075      |
| 20    | 15934       | 15935     | NS   | 1    | 0.0       | 46.916 | 4.794      | 0.0        | 48.546 | 6.362      | 0.0       | 40.389 | 4.334      | 0.0        | 43.254 | 5.969      | 0.0       | 47.21  | 4.987      | 0.0        | 49.252 | 6.454      | 0.0       | 40.288 | 4.398      | 0.0        | 43.264 | 6.09       |
| 21    | 15934       | 15935     | SN   | 1    | 0.0       | 42.295 | 3.526      | 0.204      | 44.164 | 4.414      | 0.0       | 42.21  | 3.282      | 0.0        | 42.815 | 4.844      | 0.0       | 44.417 | 3.649      | 0.139      | 42.4   | 4.115      | 0.0       | 43.353 | 3.21       | 0.0        | 43.514 | 4.246      |
| 22    | 15934       | 15935     | SN   | 1    | 0.0       | 42.261 | 3.514      | 0.204      | 43.177 | 4.408      | 0.0       | 41.65  | 3.341      | 0.0        | 41.851 | 4.825      | 0.0       | 44.383 | 3.635      | 0.139      | 41.27  | 4.073      | 0.0       | 41.858 | 3.256      | 0.0        | 41.003 | 4.206      |
| 23    | 15934       | 15935     | SN   | 1    | 0.0       | 40.9   | 1.006      | 0.0        | 42.314 | 1.326      | 0.0       | 44.699 | 1.027      | 0.0        | 43.669 | 1.639      | 0.0       | 43.252 | 1.017      | 0.0        | 40.565 | 1.262      | 0.0       | 45.048 | 0.951      | 0.0        | 40.947 | 1.463      |
| 24    | 15934       | 15935     | SN   | 1    | 0.0       | 42.225 | 0.999      | 0.0        | 42.592 | 1.337      | 0.0       | 43.632 | 1.036      | 0.0        | 38.412 | 1.625      | 0.0       | 43.324 | 1.02       | 0.0        | 40.842 | 1.256      | 0.0       | 43.98  | 0.955      | 0.0        | 35.915 | 1.456      |
| 25    | 15934       | 15935     | NS   | 1    | 0.0       | 37.544 | 1.345      | 0.0        | 42.323 | 1.895      | 0.0       | 39.664 | 1.2        | 0.0        | 42.86  | 2.008      | 0.0       | 37.222 | 1.336      | 0.0        | 41.78  | 1.85       | 0.0       | 40.238 | 1.243      | 0.0        | 42.684 | 1.948      |
| 26    | 15934       | 15935     | NS   | 1    | 0.0       | 37.625 | 1.343      | 0.0        | 42.301 | 1.9        | 0.0       | 39.823 | 1.213      | 0.0        | 42.86  | 1.99       | 0.0       | 37.588 | 1.329      | 0.0        | 41.757 | 1.854      | 0.0       | 40.397 | 1.257      | 0.0        | 42.754 | 1.932      |
| 27    | 15935       | 15936     | SN   | 1    | 0.0       | 40.957 | 3.514      | 0.02       | 53.22  | 4.154      | 0.0       | 35.6   | 3.837      | 0.0        | 39.274 | 4.853      | 0.0       | 42.453 | 3.473      | 0.031      | 51.881 | 3.728      | 0.0       | 35.23  | 3.766      | 0.0        | 41.761 | 4.369      |
| 28    | 15935       | 15936     | NS   | 1    | 0.0       | 48.724 | 4.804      | 0.0        | 52.03  | 5.712      | 0.0       | 41.187 | 4.874      | 0.0        | 49.478 | 6.004      | 0.0       | 48.676 | 4.875      | 0.0        | 52.214 | 5.62       | 0.0       | 42.133 | 4.853      | 0.0        | 49.935 | 6.147      |
| 29    | 15935       | 15936     | SN   | 1    | 0.0       | 39.294 | 0.989      | 0.0        | 41.149 | 1.34       | 0.0       | 38.46  | 1.348      | 0.0        | 40.569 | 1.773      | 0.0       | 39.727 | 0.969      | 0.0        | 41.214 | 1.209      | 0.0       | 38.159 | 1.258      | 0.0        | 38.017 | 1.466      |
| 30    | 15935       | 15936     | SN   | 1    | 0.0       | 43.335 | 1.004      | 0.0        | 41.149 | 1.36       | 0.0       | 37.363 | 1.312      | 0.0        | 40.569 | 1.783      | 0.0       | 44.139 | 0.993      | 0.0        | 41.214 | 1.247      | 0.0       | 37.12  | 1.204      | 0.0        | 38.017 | 1.449      |
| 31    | 15935       | 15936     | NS   | 1    | 0.0       | 43.161 | 1.499      | 0.0        | 51.899 | 1.983      | 0.0       | 36.562 | 1.419      | 0.0        | 48.031 | 1.992      | 0.0       | 41.851 | 1.531      | 0.0        | 51.012 | 1.949      | 0.0       | 36.599 | 1.405      | 0.0        | 46.818 | 1.953      |

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

|    |       |       |    |   |     |        |        |      |        |        |     |        |       |     |        |       |     |        |        |       |        |        |     |        |       |     |        |       |
|----|-------|-------|----|---|-----|--------|--------|------|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-------|--------|--------|-----|--------|-------|-----|--------|-------|
| 32 | 15935 | 15936 | SN | 1 | 0.0 | 41.013 | 3.483  | 0.02 | 46.766 | 4.185  | 0.0 | 40.833 | 3.873 | 0.0 | 41.016 | 4.868 | 0.0 | 42.506 | 3.483  | 0.031 | 49.119 | 3.84   | 0.0 | 40.55  | 3.78  | 0.0 | 41.761 | 4.405 |
| 33 | 15935 | 15936 | SN | 1 | 0.0 | 47.066 | 3.654  | 0.02 | 52.036 | 4.219  | 0.0 | 40.51  | 3.775 | 0.0 | 39.297 | 4.913 | 0.0 | 47.642 | 3.551  | 0.031 | 50.627 | 3.826  | 0.0 | 40.312 | 3.638 | 0.0 | 41.761 | 4.37  |
| 34 | 15935 | 15936 | SN | 1 | 0.0 | 44.103 | 1.001  | 0.0  | 40.241 | 1.354  | 0.0 | 37.363 | 1.354 | 0.0 | 40.887 | 1.791 | 0.0 | 44.366 | 0.98   | 0.0   | 38.662 | 1.234  | 0.0 | 34.991 | 1.249 | 0.0 | 37.39  | 1.476 |
| 35 | 15936 | 15937 | NS | 1 | 0.0 | 44.677 | 0.903  | 0.0  | 48.752 | 1.226  | 0.0 | 41.008 | 0.636 | 0.0 | 43.678 | 0.815 | 0.0 | 44.291 | 0.923  | 0.0   | 48.09  | 1.194  | 0.0 | 41.291 | 0.638 | 0.0 | 40.429 | 0.692 |
| 36 | 15936 | 15937 | NS | 1 | 0.0 | 44.677 | 0.898  | 0.0  | 48.752 | 1.228  | 0.0 | 41.008 | 0.634 | 0.0 | 43.678 | 0.813 | 0.0 | 44.291 | 0.923  | 0.0   | 48.09  | 1.199  | 0.0 | 41.291 | 0.636 | 0.0 | 40.429 | 0.691 |
| 37 | 15936 | 15937 | SN | 1 | 0.0 | 52.937 | 4.576  | 0.0  | 45.901 | 5.94   | 0.0 | 43.16  | 5.197 | 0.0 | 41.605 | 6.66  | 0.0 | 54.939 | 4.586  | 0.0   | 44.396 | 5.818  | 0.0 | 44.738 | 5.253 | 0.0 | 41.346 | 6.368 |
| 38 | 15936 | 15937 | SN | 1 | 0.0 | 41.33  | 1.307  | 0.0  | 45.664 | 1.913  | 0.0 | 38.774 | 1.767 | 0.0 | 41.853 | 2.493 | 0.0 | 41.244 | 1.329  | 0.0   | 45.246 | 1.776  | 0.0 | 39.193 | 1.677 | 0.0 | 42.18  | 2.287 |
| 39 | 15936 | 15937 | NS | 1 | 0.0 | 49.574 | 3.058  | 0.0  | 51.271 | 3.365  | 0.0 | 47.137 | 2.442 | 0.0 | 49.362 | 2.977 | 0.0 | 49.834 | 3.129  | 0.0   | 53.069 | 3.161  | 0.0 | 51.032 | 2.378 | 0.0 | 44.149 | 2.585 |
| 40 | 15936 | 15937 | NS | 1 | 0.0 | 49.806 | 3.058  | 0.0  | 51.572 | 3.365  | 0.0 | 47.137 | 2.428 | 0.0 | 49.362 | 2.977 | 0.0 | 50.067 | 3.139  | 0.0   | 53.371 | 3.161  | 0.0 | 51.032 | 2.378 | 0.0 | 44.15  | 2.585 |
| 41 | 15937 | 15938 | SN | 1 | 0.0 | 40.627 | 1.949  | 0.0  | 46.136 | 2.361  | 0.0 | 39.928 | 1.944 | 0.0 | 36.511 | 2.59  | 0.0 | 41.1   | 1.915  | 0.0   | 45.416 | 2.155  | 0.0 | 40.285 | 1.935 | 0.0 | 37.787 | 2.409 |
| 42 | 15937 | 15938 | SN | 1 | 0.0 | 43.994 | 7.746  | 0.0  | 42.58  | 8.309  | 0.0 | 37.532 | 5.982 | 0.0 | 43.435 | 7.633 | 0.0 | 44.641 | 7.788  | 0.0   | 42.421 | 7.778  | 0.0 | 37.009 | 5.922 | 0.0 | 41.62  | 7.134 |
| 43 | 15937 | 15938 | SN | 1 | 0.0 | 43.994 | 7.736  | 0.0  | 42.58  | 8.285  | 0.0 | 37.532 | 5.871 | 0.0 | 43.435 | 7.45  | 0.0 | 44.641 | 7.787  | 0.0   | 42.421 | 7.656  | 0.0 | 38.966 | 5.836 | 0.0 | 41.62  | 6.945 |
| 44 | 15937 | 15938 | NS | 1 | 0.0 | 43.647 | 1.291  | 0.0  | 47.657 | 1.577  | 0.0 | 39.034 | 1.238 | 0.0 | 44.127 | 1.782 | 0.0 | 45.419 | 1.291  | 0.0   | 45.759 | 1.45   | 0.0 | 40.529 | 1.126 | 0.0 | 40.999 | 1.493 |
| 45 | 15937 | 15938 | SN | 1 | 0.0 | 40.627 | 1.957  | 0.0  | 44.342 | 2.401  | 0.0 | 36.167 | 1.99  | 0.0 | 36.511 | 2.675 | 0.0 | 41.1   | 1.928  | 0.0   | 43.62  | 2.167  | 0.0 | 38.792 | 1.957 | 0.0 | 37.787 | 2.508 |
| 46 | 15937 | 15938 | NS | 1 | 0.0 | 48.658 | 5.088  | 0.0  | 48.652 | 6.344  | 0.0 | 43.684 | 4.22  | 0.0 | 47.833 | 5.72  | 0.0 | 50.315 | 5.261  | 0.0   | 46.953 | 5.836  | 0.0 | 44.437 | 4.071 | 0.0 | 45.179 | 5.136 |
| 47 | 15938 | 15939 | NS | 1 | 0.0 | 51.286 | 5.18   | 0.0  | 50.653 | 6.274  | 0.0 | 40.267 | 4.811 | 0.0 | 44.47  | 5.934 | 0.0 | 51.236 | 5.312  | 0.0   | 51.299 | 6.029  | 0.0 | 38.893 | 4.626 | 0.0 | 43.521 | 5.35  |
| 48 | 15938 | 15939 | NS | 1 | 0.0 | 50.25  | 1.323  | 0.0  | 47.431 | 1.882  | 0.0 | 43.68  | 1.597 | 0.0 | 41.079 | 1.929 | 0.0 | 51.135 | 1.348  | 0.0   | 44.777 | 1.737  | 0.0 | 43.806 | 1.506 | 0.0 | 39.292 | 1.721 |
| 49 | 15938 | 15939 | NS | 1 | 0.0 | 50.248 | 1.339  | 0.0  | 48.319 | 1.9    | 0.0 | 43.68  | 1.572 | 0.0 | 41.079 | 1.964 | 0.0 | 51.134 | 1.352  | 0.0   | 45.451 | 1.769  | 0.0 | 43.806 | 1.476 | 0.0 | 39.27  | 1.771 |
| 50 | 15938 | 15939 | SN | 1 | 0.0 | 49.997 | 10.404 | 0.0  | 58.673 | 11.82  | 0.0 | 47.677 | 7.926 | 0.0 | 49.748 | 9.093 | 0.0 | 50.231 | 10.647 | 0.0   | 60.042 | 11.881 | 0.0 | 46.44  | 8.288 | 0.0 | 49.631 | 9.35  |
| 51 | 15938 | 15939 | SN | 1 | 0.0 | 47.79  | 2.886  | 0.0  | 47.696 | 3.613  | 0.0 | 39.659 | 2.285 | 0.0 | 43.987 | 3.08  | 0.0 | 47.506 | 2.969  | 0.0   | 49.017 | 3.618  | 0.0 | 38.152 | 2.394 | 0.0 | 40.141 | 3.111 |
| 52 | 15938 | 15939 | NS | 1 | 0.0 | 49.653 | 5.2    | 0.0  | 50.932 | 6.274  | 0.0 | 43.028 | 4.904 | 0.0 | 41.834 | 5.934 | 0.0 | 49.601 | 5.291  | 0.0   | 51.299 | 6.029  | 0.0 | 41.783 | 4.79  | 0.0 | 40.455 | 5.343 |
| 53 | 15938 | 15939 | SN | 1 | 0.0 | 45.858 | 2.815  | 0.0  | 48.232 | 3.553  | 0.0 | 39.659 | 2.274 | 0.0 | 43.987 | 2.998 | 0.0 | 45.956 | 2.896  | 0.0   | 49.176 | 3.537  | 0.0 | 38.152 | 2.373 | 0.0 | 40.141 | 3.021 |
| 54 | 15938 | 15939 | SN | 1 | 0.0 | 49.997 | 10.378 | 0.0  | 58.673 | 11.825 | 0.0 | 45.998 | 8.025 | 0.0 | 49.748 | 9.262 | 0.0 | 50.231 | 10.67  | 0.0   | 60.042 | 11.94  | 0.0 | 45.713 | 8.419 | 0.0 | 49.631 | 9.562 |
| 55 | 15939 | 15940 | NS | 1 | 0.0 | 41.839 | 1.024  | 0.0  | 40.183 | 1.21   | 0.0 | 36.064 | 1.129 | 0.0 | 41.984 | 1.406 | 0.0 | 41.712 | 1.029  | 0.0   | 41.913 | 1.154  | 0.0 | 34.381 | 1.035 | 0.0 | 38.353 | 1.204 |
| 56 | 15939 | 15940 | SN | 1 | 0.0 | 50.045 | 6.948  | 0.0  | 55.311 | 8.916  | 0.0 | 49.117 | 5.625 | 0.0 | 49.224 | 7.03  | 0.0 | 50.105 | 6.898  | 0.0   | 55.222 | 8.591  | 0.0 | 49.98  | 5.597 | 0.0 | 47.407 | 6.624 |
| 57 | 15939 | 15940 | SN | 1 | 0.0 | 50.045 | 6.948  | 0.0  | 55.311 | 8.916  | 0.0 | 49.117 | 5.618 | 0.0 | 49.224 | 7.023 | 0.0 | 50.105 | 6.908  | 0.0   | 55.222 | 8.591  | 0.0 | 49.98  | 5.59  | 0.0 | 47.407 | 6.617 |
| 58 | 15939 | 15940 | SN | 1 | 0.0 | 45.995 | 1.964  | 0.0  | 46.118 | 2.722  | 0.0 | 45.262 | 1.487 | 0.0 | 42.14  | 2.086 | 0.0 | 45.647 | 1.927  | 0.0   | 49.003 | 2.5    | 0.0 | 45.317 | 1.49  | 0.0 | 41.413 | 1.928 |
| 59 | 15939 | 15940 | SN | 1 | 0.0 | 50.045 | 7.202  | 0.0  | 55.311 | 9.01   | 0.0 | 49.117 | 5.745 | 0.0 | 49.224 | 7.192 | 0.0 | 50.105 | 7.137  | 0.0   | 55.222 | 8.728  | 0.0 | 49.98  | 5.761 | 0.0 | 47.407 | 6.85  |
| 60 | 15939 | 15940 | NS | 1 | 0.0 | 41.839 | 1.033  | 0.0  | 40.587 | 1.226  | 0.0 | 36.064 | 1.135 | 0.0 | 47.614 | 1.417 | 0.0 | 40.444 | 1.024  | 0.0   | 41.701 | 1.147  | 0.0 | 34.381 | 1.035 | 0.0 | 43.974 | 1.22  |
| 61 | 15939 | 15940 | SN | 1 | 0.0 | 45.995 | 2.043  | 0.0  | 46.118 | 2.833  | 0.0 | 45.262 | 1.539 | 0.0 | 42.14  | 2.153 | 0.0 | 45.647 | 2.019  | 0.0   | 49.003 | 2.621  | 0.0 | 45.317 | 1.543 | 0.0 | 41.413 | 1.997 |
| 62 | 15939 | 15940 | NS | 1 | 0.0 | 43.239 | 3.362  | 0.0  | 44.388 | 4.25   | 0.0 | 39.594 | 3.658 | 0.0 | 46.99  | 4.053 | 0.0 | 44.364 | 3.362  | 0.0   | 45.683 | 3.955  | 0.0 | 37.237 | 3.572 | 0.0 | 48.611 | 3.754 |
| 63 | 15939 | 15940 | SN | 1 | 0.0 | 45.995 | 1.963  | 0.0  | 46.118 | 2.72   | 0.0 | 45.262 | 1.483 | 0.0 | 42.14  | 2.086 | 0.0 | 45.647 | 1.93   | 0.0   | 49.003 | 2.5    | 0.0 | 45.317 | 1.487 | 0.0 | 41.413 | 1.927 |
| 64 | 15939 | 15940 | NS | 1 | 0.0 | 41.729 | 3.362  | 0.0  | 44.388 | 4.22   | 0.0 | 41.161 | 3.665 | 0.0 | 44.315 | 4.053 | 0.0 | 42.094 | 3.352  | 0.0   | 45.683 | 3.955  | 0.0 | 39.156 | 3.587 | 0.0 | 48.611 | 3.747 |
| 65 | 15940 | 15941 | NS | 1 | 0.0 | 49.985 | 6.743  | 0.0  | 55.876 | 7.624  | 0.0 | 44.303 | 4.981 | 0.0 | 46.47  | 6.26  | 0.0 | 50.375 | 6.763  | 0.0   | 56.507 | 7.461  | 0.0 | 45.967 | 4.981 | 0.0 | 45.294 | 6.054 |
| 66 | 15940 | 15941 | NS | 1 | 0.0 | 49.985 | 6.733  | 0.0  | 55.867 | 7.613  | 0.0 | 44.303 | 4.996 | 0.0 | 46.464 | 6.196 | 0.0 | 49.826 | 6.763  | 0.0   | 56.497 | 7.451  | 0.0 | 45.967 | 5.003 | 0.0 | 45.288 | 6.025 |
| 67 | 15940 | 15941 | NS | 1 | 0.0 | 52.258 | 1.677  | 0.0  | 45.165 | 2.105  | 0.0 | 40.876 | 1.373 | 0.0 | 40.728 | 1.887 | 0.0 | 51.705 | 1.682  | 0.0   | 43.0   | 2.003  | 0.0 | 41.777 | 1.355 | 0.0 | 40.015 | 1.825 |

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

|     |       |       |    |   |       |        |       |       |        |        |     |        |       |     |        |       |       |        |       |       |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-------|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|-------|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|
| 68  | 15940 | 15941 | SN | 1 | 0.0   | 49.335 | 1.573 | 0.0   | 47.395 | 1.989  | 0.0 | 40.575 | 1.487 | 0.0 | 41.371 | 1.906 | 0.0   | 48.089 | 1.623 | 0.0   | 47.032 | 1.932  | 0.0 | 39.3   | 1.446 | 0.0 | 40.843 | 1.837 |
| 69  | 15940 | 15941 | NS | 1 | 0.0   | 51.71  | 1.673 | 0.0   | 45.165 | 2.098  | 0.0 | 40.876 | 1.369 | 0.0 | 40.728 | 1.887 | 0.0   | 51.156 | 1.682 | 0.0   | 43.0   | 2.001  | 0.0 | 41.778 | 1.353 | 0.0 | 37.952 | 1.831 |
| 70  | 15940 | 15941 | SN | 1 | 0.0   | 53.565 | 5.437 | 0.003 | 52.236 | 7.009  | 0.0 | 44.086 | 4.901 | 0.0 | 51.156 | 6.248 | 0.0   | 55.146 | 5.66  | 1.042 | 51.614 | 6.765  | 0.0 | 44.55  | 4.908 | 0.0 | 47.288 | 5.864 |
| 71  | 15941 | 15942 | SN | 1 | 0.0   | 56.175 | 1.041 | 0.0   | 49.727 | 1.553  | 0.0 | 41.707 | 1.037 | 0.0 | 40.117 | 1.534 | 0.0   | 57.339 | 1.048 | 0.0   | 53.142 | 1.494  | 0.0 | 40.329 | 1.044 | 0.0 | 38.442 | 1.418 |
| 72  | 15941 | 15942 | NS | 1 | 0.0   | 52.012 | 1.146 | 0.0   | 47.979 | 1.619  | 0.0 | 42.222 | 1.081 | 0.0 | 42.382 | 1.656 | 0.0   | 52.863 | 1.141 | 0.0   | 46.255 | 1.439  | 0.0 | 41.848 | 1.012 | 0.0 | 42.244 | 1.349 |
| 73  | 15941 | 15942 | SN | 1 | 0.806 | 47.556 | 4.648 | 0.0   | 45.327 | 6.227  | 0.0 | 40.975 | 3.623 | 0.0 | 43.452 | 4.906 | 1.034 | 48.485 | 4.668 | 0.0   | 46.134 | 5.983  | 0.0 | 42.419 | 3.694 | 0.0 | 40.921 | 4.685 |
| 74  | 15941 | 15942 | NS | 1 | 0.0   | 50.005 | 4.518 | 0.0   | 52.954 | 6.17   | 0.0 | 45.678 | 3.906 | 0.0 | 50.596 | 5.462 | 0.0   | 49.559 | 4.498 | 0.0   | 52.07  | 5.733  | 0.0 | 45.877 | 3.614 | 0.0 | 50.474 | 4.607 |
| 75  | 15942 | 15943 | SN | 1 | 0.0   | 46.166 | 0.985 | 0.0   | 43.632 | 1.512  | 0.0 | 41.457 | 1.118 | 0.0 | 43.14  | 1.818 | 0.0   | 47.912 | 0.98  | 0.0   | 44.27  | 1.413  | 0.0 | 40.715 | 1.044 | 0.0 | 43.953 | 1.527 |
| 76  | 15942 | 15943 | NS | 1 | 0.0   | 53.268 | 3.259 | 0.0   | 50.154 | 3.822  | 0.0 | 47.9   | 3.038 | 0.0 | 40.032 | 3.966 | 0.0   | 54.078 | 3.28  | 0.0   | 49.647 | 3.446  | 0.0 | 45.78  | 2.768 | 0.0 | 41.225 | 3.098 |
| 77  | 15942 | 15943 | SN | 1 | 0.739 | 53.642 | 3.949 | 0.0   | 54.835 | 5.394  | 0.0 | 47.759 | 4.268 | 0.0 | 46.552 | 5.732 | 0.277 | 54.425 | 3.908 | 0.0   | 54.565 | 5.079  | 0.0 | 46.43  | 4.034 | 0.0 | 44.254 | 4.998 |
| 78  | 15942 | 15943 | NS | 1 | 0.0   | 40.996 | 0.802 | 0.0   | 53.399 | 1.17   | 0.0 | 41.43  | 0.896 | 0.0 | 40.069 | 1.328 | 0.0   | 40.442 | 0.818 | 0.0   | 54.239 | 1.034  | 0.0 | 41.183 | 0.804 | 0.0 | 38.183 | 1.018 |
| 79  | 15943 | 15944 | SN | 1 | 0.0   | 43.33  | 0.739 | 0.0   | 49.687 | 0.951  | 0.0 | 41.698 | 0.789 | 0.0 | 44.775 | 1.118 | 0.0   | 43.935 | 0.741 | 0.0   | 48.705 | 0.843  | 0.0 | 44.265 | 0.746 | 0.0 | 39.916 | 0.947 |
| 80  | 15943 | 15944 | SN | 1 | 0.005 | 52.132 | 3.19  | 0.0   | 50.418 | 3.736  | 0.0 | 44.103 | 2.886 | 0.0 | 47.96  | 4.041 | 0.521 | 53.308 | 3.19  | 0.0   | 49.64  | 3.36   | 0.0 | 46.283 | 2.765 | 0.0 | 46.48  | 3.472 |
| 81  | 15943 | 15944 | SN | 1 | 0.005 | 52.132 | 3.19  | 0.0   | 50.418 | 3.736  | 0.0 | 44.103 | 2.886 | 0.0 | 47.96  | 4.041 | 0.521 | 53.308 | 3.19  | 0.0   | 49.64  | 3.36   | 0.0 | 46.283 | 2.765 | 0.0 | 46.48  | 3.472 |
| 82  | 15943 | 15944 | NS | 1 | 0.0   | 40.333 | 1.198 | 0.0   | 51.441 | 1.783  | 0.0 | 41.399 | 1.346 | 0.0 | 47.818 | 1.944 | 0.0   | 41.913 | 1.21  | 0.0   | 54.154 | 1.717  | 0.0 | 39.332 | 1.289 | 0.0 | 46.361 | 1.678 |
| 83  | 15943 | 15944 | NS | 1 | 0.0   | 40.408 | 1.235 | 0.0   | 51.441 | 1.824  | 0.0 | 41.399 | 1.364 | 0.0 | 47.818 | 1.98  | 0.0   | 41.987 | 1.254 | 0.0   | 54.154 | 1.764  | 0.0 | 39.332 | 1.306 | 0.0 | 46.361 | 1.726 |
| 84  | 15943 | 15944 | NS | 1 | 0.0   | 44.232 | 3.741 | 0.0   | 53.254 | 4.75   | 0.0 | 41.006 | 4.527 | 0.0 | 50.666 | 5.832 | 0.0   | 45.327 | 3.668 | 0.0   | 52.362 | 4.45   | 0.0 | 40.511 | 4.505 | 0.0 | 51.365 | 5.376 |
| 85  | 15943 | 15944 | NS | 1 | 0.0   | 40.408 | 1.216 | 0.0   | 51.441 | 1.789  | 0.0 | 41.399 | 1.357 | 0.0 | 47.818 | 1.955 | 0.0   | 41.987 | 1.225 | 0.0   | 54.154 | 1.731  | 0.0 | 39.332 | 1.289 | 0.0 | 46.361 | 1.703 |
| 86  | 15943 | 15944 | NS | 1 | 0.0   | 44.232 | 3.697 | 0.0   | 53.254 | 4.667  | 0.0 | 41.006 | 4.448 | 0.0 | 50.666 | 5.735 | 0.0   | 45.327 | 3.626 | 0.0   | 52.362 | 4.382  | 0.0 | 40.511 | 4.391 | 0.0 | 51.365 | 5.286 |
| 87  | 15943 | 15944 | NS | 1 | 0.0   | 44.232 | 3.616 | 0.0   | 53.254 | 4.677  | 0.0 | 41.05  | 4.455 | 0.0 | 50.697 | 5.707 | 0.0   | 45.327 | 3.606 | 0.0   | 52.362 | 4.352  | 0.0 | 42.099 | 4.405 | 0.0 | 51.396 | 5.265 |
| 88  | 15943 | 15944 | SN | 1 | 0.0   | 43.33  | 0.739 | 0.0   | 49.687 | 0.951  | 0.0 | 41.698 | 0.789 | 0.0 | 44.775 | 1.118 | 0.0   | 43.935 | 0.741 | 0.0   | 48.705 | 0.843  | 0.0 | 44.265 | 0.746 | 0.0 | 39.916 | 0.947 |
| 89  | 15944 | 15945 | NS | 1 | 0.0   | 42.388 | 4.286 | 0.0   | 47.335 | 5.927  | 0.0 | 44.413 | 4.255 | 0.0 | 49.632 | 5.636 | 0.0   | 42.756 | 4.286 | 0.0   | 46.708 | 5.429  | 0.0 | 43.527 | 4.191 | 0.0 | 44.616 | 5.009 |
| 90  | 15944 | 15945 | NS | 1 | 0.0   | 42.388 | 4.316 | 0.0   | 47.335 | 5.887  | 0.0 | 44.413 | 4.27  | 0.0 | 48.044 | 5.586 | 0.0   | 42.756 | 4.296 | 0.0   | 46.708 | 5.419  | 0.0 | 43.527 | 4.156 | 0.0 | 44.131 | 4.973 |
| 91  | 15944 | 15945 | NS | 1 | 0.0   | 40.689 | 1.259 | 0.0   | 47.641 | 1.593  | 0.0 | 38.694 | 1.273 | 0.0 | 47.844 | 1.867 | 0.0   | 42.22  | 1.244 | 0.0   | 46.741 | 1.475  | 0.0 | 36.216 | 1.209 | 0.0 | 44.306 | 1.588 |
| 92  | 15944 | 15945 | NS | 1 | 0.0   | 40.689 | 1.255 | 0.0   | 47.641 | 1.574  | 0.0 | 39.648 | 1.305 | 0.0 | 47.363 | 1.884 | 0.0   | 42.22  | 1.239 | 0.0   | 46.741 | 1.47   | 0.0 | 36.798 | 1.25  | 0.0 | 43.851 | 1.602 |
| 93  | 15944 | 15945 | NS | 1 | 0.0   | 42.388 | 4.476 | 0.0   | 47.335 | 6.222  | 0.0 | 44.413 | 4.446 | 0.0 | 49.632 | 5.916 | 0.0   | 42.756 | 4.486 | 0.0   | 46.708 | 5.711  | 0.0 | 43.527 | 4.357 | 0.0 | 44.616 | 5.251 |
| 94  | 15944 | 15945 | NS | 1 | 0.0   | 40.689 | 1.317 | 0.0   | 47.641 | 1.671  | 0.0 | 38.694 | 1.333 | 0.0 | 47.844 | 1.958 | 0.0   | 42.22  | 1.3   | 0.0   | 46.741 | 1.548  | 0.0 | 36.216 | 1.281 | 0.0 | 44.306 | 1.67  |
| 95  | 15944 | 15945 | SN | 1 | 0.0   | 42.525 | 0.989 | 0.0   | 48.751 | 1.321  | 0.0 | 45.109 | 1.227 | 0.0 | 38.78  | 1.508 | 0.0   | 41.968 | 0.982 | 0.0   | 49.024 | 1.22   | 0.0 | 45.034 | 1.146 | 0.0 | 41.594 | 1.295 |
| 96  | 15944 | 15945 | SN | 1 | 0.0   | 47.388 | 3.482 | 0.0   | 44.674 | 4.478  | 0.0 | 45.095 | 4.013 | 0.0 | 43.811 | 4.774 | 0.0   | 48.213 | 3.442 | 0.0   | 45.485 | 4.173  | 0.0 | 45.985 | 3.907 | 0.0 | 41.524 | 4.255 |
| 97  | 15945 | 15946 | NS | 1 | 0.0   | 47.45  | 1.819 | 0.0   | 43.021 | 2.525  | 0.0 | 40.694 | 1.749 | 0.0 | 38.021 | 2.367 | 0.0   | 46.386 | 1.799 | 0.0   | 43.481 | 2.441  | 0.0 | 39.164 | 1.69  | 0.0 | 40.371 | 2.181 |
| 98  | 15945 | 15946 | NS | 1 | 0.0   | 47.45  | 2.01  | 0.0   | 43.021 | 2.784  | 0.0 | 40.694 | 1.923 | 0.0 | 38.021 | 2.61  | 0.0   | 46.386 | 1.987 | 0.0   | 43.534 | 2.694  | 0.0 | 39.164 | 1.864 | 0.0 | 40.371 | 2.407 |
| 99  | 15945 | 15946 | SN | 1 | 0.0   | 46.421 | 6.033 | 0.0   | 50.503 | 6.58   | 0.0 | 44.696 | 6.09  | 0.0 | 42.925 | 6.938 | 0.0   | 47.348 | 6.023 | 0.0   | 50.983 | 6.154  | 0.0 | 46.98  | 6.225 | 0.0 | 41.599 | 6.39  |
| 100 | 15945 | 15946 | NS | 1 | 0.0   | 48.823 | 6.447 | 0.0   | 49.038 | 7.917  | 0.0 | 39.928 | 5.805 | 0.0 | 43.715 | 6.837 | 0.0   | 46.778 | 6.376 | 0.0   | 50.627 | 7.866  | 0.0 | 37.962 | 5.563 | 0.0 | 44.726 | 6.651 |
| 101 | 15945 | 15946 | SN | 1 | 0.0   | 40.211 | 1.636 | 0.0   | 48.423 | 2.196  | 0.0 | 37.01  | 2.036 | 0.0 | 40.429 | 2.413 | 0.0   | 41.655 | 1.608 | 0.0   | 44.807 | 2.044  | 0.0 | 39.885 | 1.944 | 0.0 | 40.143 | 2.102 |
| 102 | 15945 | 15946 | NS | 1 | 0.0   | 48.823 | 7.1   | 0.0   | 49.038 | 8.714  | 0.0 | 42.603 | 6.37  | 0.0 | 43.715 | 7.532 | 0.0   | 46.778 | 7.021 | 0.0   | 50.627 | 8.658  | 0.0 | 41.036 | 6.142 | 0.0 | 44.726 | 7.328 |
| 103 | 15946 | 15947 | NS | 1 | 0.0   | 45.08  | 8.845 | 0.0   | 45.29  | 11.311 | 0.0 | 46.345 | 8.119 | 0.0 | 45.671 | 9.165 | 0.0   | 45.15  | 8.967 | 0.0   | 44.349 | 11.341 | 0.0 | 48.009 | 8.489 | 0.0 | 46.158 | 9.578 |

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

|     |       |       |    |   |       |        |        |       |        |        |     |        |       |     |        |        |       |        |        |       |        |        |     |        |       |     |        |        |
|-----|-------|-------|----|---|-------|--------|--------|-------|--------|--------|-----|--------|-------|-----|--------|--------|-------|--------|--------|-------|--------|--------|-----|--------|-------|-----|--------|--------|
| 104 | 15946 | 15947 | SN | 1 | 0.0   | 44.083 | 1.634  | 0.0   | 47.519 | 2.156  | 0.0 | 42.999 | 1.458 | 0.0 | 39.438 | 2.107  | 0.0   | 45.399 | 1.607  | 0.0   | 47.572 | 2.063  | 0.0 | 42.295 | 1.485 | 0.0 | 37.763 | 1.974  |
| 105 | 15946 | 15947 | NS | 1 | 0.0   | 46.062 | 2.272  | 0.0   | 50.117 | 3.179  | 0.0 | 39.138 | 2.285 | 0.0 | 46.275 | 3.157  | 0.0   | 45.535 | 2.302  | 0.0   | 51.101 | 3.138  | 0.0 | 40.196 | 2.41  | 0.0 | 42.997 | 3.304  |
| 106 | 15946 | 15947 | SN | 1 | 0.0   | 40.015 | 1.626  | 0.0   | 41.905 | 2.25   | 0.0 | 42.133 | 1.401 | 0.0 | 40.072 | 2.2    | 0.0   | 41.557 | 1.619  | 0.0   | 40.049 | 2.131  | 0.0 | 41.078 | 1.453 | 0.0 | 39.542 | 2.093  |
| 107 | 15946 | 15947 | NS | 1 | 0.0   | 41.023 | 2.313  | 0.0   | 45.361 | 3.132  | 0.0 | 39.725 | 2.353 | 0.0 | 43.825 | 3.203  | 0.0   | 41.049 | 2.331  | 0.0   | 46.346 | 3.136  | 0.0 | 40.249 | 2.458 | 0.0 | 44.655 | 3.288  |
| 108 | 15946 | 15947 | SN | 1 | 0.0   | 50.55  | 7.218  | 0.193 | 50.927 | 7.928  | 0.0 | 39.761 | 5.052 | 0.0 | 42.623 | 7.068  | 0.0   | 50.493 | 7.229  | 0.217 | 51.825 | 7.589  | 0.0 | 41.987 | 5.274 | 0.0 | 42.013 | 6.984  |
| 109 | 15946 | 15947 | NS | 1 | 0.466 | 45.08  | 10.317 | 0.0   | 45.29  | 13.191 | 0.0 | 46.345 | 9.585 | 0.0 | 45.671 | 10.592 | 0.468 | 45.15  | 10.484 | 0.0   | 44.349 | 13.238 | 0.0 | 48.009 | 9.977 | 0.0 | 46.158 | 11.193 |
| 110 | 15946 | 15947 | NS | 1 | 0.0   | 44.95  | 8.642  | 0.0   | 48.149 | 11.159 | 0.0 | 45.93  | 8.105 | 0.0 | 43.522 | 9.087  | 0.0   | 45.157 | 8.988  | 0.0   | 48.566 | 11.402 | 0.0 | 47.593 | 8.511 | 0.0 | 43.898 | 9.842  |
| 111 | 15946 | 15947 | SN | 1 | 0.0   | 49.523 | 1.618  | 0.0   | 46.32  | 2.149  | 0.0 | 42.133 | 1.432 | 0.0 | 40.072 | 2.08   | 0.0   | 48.475 | 1.6    | 0.0   | 43.932 | 2.038  | 0.0 | 41.078 | 1.478 | 0.0 | 37.068 | 1.974  |
| 112 | 15946 | 15947 | SN | 1 | 0.0   | 46.463 | 1.632  | 0.0   | 47.519 | 2.156  | 0.0 | 42.999 | 1.454 | 0.0 | 39.438 | 2.1    | 0.0   | 47.778 | 1.609  | 0.0   | 47.572 | 2.068  | 0.0 | 42.295 | 1.477 | 0.0 | 37.763 | 1.968  |
| 113 | 15946 | 15947 | SN | 1 | 0.0   | 50.548 | 7.371  | 0.193 | 50.927 | 7.659  | 0.0 | 39.662 | 5.249 | 0.0 | 44.759 | 6.768  | 0.0   | 50.493 | 7.412  | 0.217 | 51.825 | 7.354  | 0.0 | 42.133 | 5.412 | 0.0 | 44.013 | 6.661  |
| 114 | 15946 | 15947 | SN | 1 | 0.0   | 51.234 | 7.382  | 0.193 | 51.79  | 7.577  | 0.0 | 40.751 | 5.298 | 0.0 | 49.977 | 6.775  | 0.0   | 51.556 | 7.523  | 0.217 | 53.305 | 7.334  | 0.0 | 42.16  | 5.419 | 0.0 | 49.241 | 6.625  |
| 115 | 15946 | 15947 | SN | 1 | 0.0   | 50.82  | 7.402  | 0.193 | 51.79  | 7.577  | 0.0 | 40.751 | 5.291 | 0.0 | 49.977 | 6.768  | 0.0   | 51.142 | 7.544  | 0.217 | 53.305 | 7.334  | 0.0 | 42.16  | 5.412 | 0.0 | 49.241 | 6.618  |
| 116 | 15946 | 15947 | NS | 1 | 0.0   | 41.023 | 2.708  | 0.0   | 45.361 | 3.663  | 0.0 | 39.725 | 2.764 | 0.0 | 43.825 | 3.74   | 0.0   | 41.049 | 2.732  | 0.0   | 46.346 | 3.673  | 0.0 | 40.249 | 2.883 | 0.0 | 44.655 | 3.84   |
| 117 | 15947 | 15948 | SN | 1 | 0.696 | 46.835 | 5.083  | 0.0   | 51.538 | 7.158  | 0.0 | 43.293 | 4.077 | 0.0 | 51.232 | 5.271  | 0.709 | 48.978 | 5.205  | 0.0   | 52.994 | 6.63   | 0.0 | 43.084 | 3.906 | 0.0 | 50.257 | 4.781  |
| 118 | 15947 | 15948 | SN | 1 | 0.0   | 43.791 | 1.392  | 0.0   | 46.541 | 1.796  | 0.0 | 39.716 | 0.952 | 0.0 | 49.994 | 1.428  | 0.0   | 45.584 | 1.442  | 0.0   | 47.542 | 1.687  | 0.0 | 40.411 | 0.893 | 0.0 | 49.19  | 1.189  |
| 119 | 15947 | 15948 | NS | 1 | 0.0   | 49.657 | 2.68   | 0.0   | 50.177 | 3.157  | 0.0 | 42.897 | 2.181 | 0.0 | 44.558 | 2.993  | 0.0   | 48.582 | 2.705  | 0.0   | 51.202 | 2.983  | 0.0 | 41.764 | 2.19  | 0.0 | 47.134 | 2.857  |
| 120 | 15947 | 15948 | SN | 1 | 0.0   | 45.35  | 1.425  | 0.0   | 46.541 | 1.847  | 0.0 | 39.716 | 0.945 | 0.0 | 49.994 | 1.44   | 0.0   | 46.273 | 1.471  | 0.0   | 47.542 | 1.736  | 0.0 | 40.411 | 0.869 | 0.0 | 49.19  | 1.21   |
| 121 | 15947 | 15948 | SN | 1 | 0.0   | 46.835 | 5.212  | 0.0   | 51.538 | 7.284  | 0.0 | 43.293 | 4.08  | 0.0 | 51.232 | 5.381  | 0.0   | 48.978 | 5.306  | 0.0   | 52.994 | 6.744  | 0.0 | 43.084 | 3.913 | 0.0 | 50.257 | 4.908  |
| 122 | 15947 | 15948 | NS | 1 | 0.62  | 54.478 | 10.585 | 0.0   | 55.703 | 10.947 | 0.0 | 52.971 | 8.207 | 0.0 | 48.619 | 9.514  | 0.252 | 54.331 | 10.656 | 0.0   | 56.569 | 10.612 | 0.0 | 55.994 | 8.449 | 0.0 | 46.896 | 9.072  |
| 123 | 15947 | 15948 | SN | 1 | 0.696 | 46.835 | 5.083  | 0.0   | 51.538 | 7.158  | 0.0 | 43.293 | 4.077 | 0.0 | 51.232 | 5.271  | 0.709 | 48.978 | 5.205  | 0.0   | 52.994 | 6.63   | 0.0 | 43.084 | 3.906 | 0.0 | 50.257 | 4.781  |
| 124 | 15947 | 15948 | SN | 1 | 0.0   | 43.791 | 1.392  | 0.0   | 46.541 | 1.796  | 0.0 | 39.716 | 0.952 | 0.0 | 49.994 | 1.428  | 0.0   | 45.584 | 1.442  | 0.0   | 47.542 | 1.687  | 0.0 | 40.411 | 0.893 | 0.0 | 49.19  | 1.189  |
| 125 | 15948 | 15949 | NS | 1 | 0.0   | 50.893 | 4.876  | 0.0   | 54.318 | 5.936  | 0.0 | 45.706 | 4.578 | 0.0 | 48.118 | 5.127  | 0.0   | 50.524 | 4.825  | 0.0   | 57.528 | 5.672  | 0.0 | 49.41  | 4.521 | 0.0 | 48.991 | 5.02   |
| 126 | 15948 | 15949 | NS | 1 | 0.0   | 50.893 | 4.876  | 0.0   | 54.278 | 5.896  | 0.0 | 45.633 | 4.585 | 0.0 | 51.973 | 5.127  | 0.0   | 50.524 | 4.835  | 0.0   | 57.489 | 5.652  | 0.0 | 49.338 | 4.514 | 0.0 | 50.719 | 5.013  |
| 127 | 15948 | 15949 | SN | 1 | 0.0   | 46.716 | 3.566  | 0.0   | 44.161 | 4.793  | 0.0 | 45.002 | 2.95  | 0.0 | 39.153 | 3.834  | 0.0   | 47.024 | 3.494  | 0.0   | 43.668 | 4.381  | 0.0 | 43.45  | 2.792 | 0.0 | 39.631 | 3.452  |
| 128 | 15948 | 15949 | SN | 1 | 0.0   | 46.716 | 3.565  | 0.0   | 44.161 | 4.822  | 0.0 | 45.002 | 2.95  | 0.0 | 39.153 | 3.867  | 0.0   | 47.024 | 3.493  | 0.0   | 43.668 | 4.411  | 0.0 | 43.45  | 2.792 | 0.0 | 39.631 | 3.486  |
| 129 | 15948 | 15949 | SN | 1 | 0.0   | 46.716 | 3.585  | 0.0   | 44.161 | 4.813  | 0.0 | 45.002 | 2.922 | 0.0 | 39.153 | 3.906  | 0.0   | 47.024 | 3.504  | 0.0   | 43.668 | 4.437  | 0.0 | 43.45  | 2.773 | 0.0 | 39.631 | 3.522  |
| 130 | 15948 | 15949 | NS | 1 | 0.0   | 44.614 | 1.524  | 0.0   | 48.952 | 1.972  | 0.0 | 39.715 | 1.19  | 0.0 | 45.723 | 1.538  | 0.0   | 44.503 | 1.527  | 0.0   | 48.886 | 1.977  | 0.0 | 40.838 | 1.213 | 0.0 | 45.084 | 1.481  |
| 131 | 15948 | 15949 | NS | 1 | 0.0   | 44.865 | 1.515  | 0.0   | 49.137 | 1.979  | 0.0 | 39.781 | 1.197 | 0.0 | 41.065 | 1.532  | 0.0   | 44.531 | 1.52   | 0.0   | 49.071 | 1.99   | 0.0 | 40.974 | 1.238 | 0.0 | 40.102 | 1.481  |
| 132 | 15948 | 15949 | SN | 1 | 0.0   | 37.362 | 0.846  | 0.0   | 47.301 | 1.252  | 0.0 | 42.437 | 0.94  | 0.0 | 37.374 | 1.332  | 0.0   | 37.58  | 0.83   | 0.0   | 47.466 | 1.115  | 0.0 | 40.377 | 0.87  | 0.0 | 35.772 | 1.122  |
| 133 | 15948 | 15949 | SN | 1 | 0.0   | 37.362 | 0.846  | 0.0   | 47.301 | 1.252  | 0.0 | 42.437 | 0.94  | 0.0 | 37.374 | 1.332  | 0.0   | 37.58  | 0.83   | 0.0   | 47.466 | 1.115  | 0.0 | 40.377 | 0.87  | 0.0 | 35.772 | 1.122  |
| 134 | 15948 | 15949 | SN | 1 | 0.0   | 37.215 | 0.85   | 0.0   | 47.301 | 1.251  | 0.0 | 42.437 | 0.952 | 0.0 | 37.374 | 1.346  | 0.0   | 37.195 | 0.836  | 0.0   | 47.466 | 1.109  | 0.0 | 40.377 | 0.886 | 0.0 | 35.772 | 1.139  |
| 135 | 15949 | 15950 | NS | 1 | 0.0   | 51.613 | 0.9    | 0.0   | 41.105 | 1.267  | 0.0 | 36.888 | 0.943 | 0.0 | 44.419 | 1.328  | 0.0   | 49.422 | 0.864  | 0.0   | 42.367 | 1.19   | 0.0 | 39.68  | 0.893 | 0.0 | 41.916 | 1.222  |
| 136 | 15949 | 15950 | NS | 1 | 0.0   | 46.82  | 2.945  | 0.0   | 46.252 | 4.057  | 0.0 | 44.654 | 3.06  | 0.0 | 47.228 | 4.139  | 0.0   | 45.467 | 2.945  | 0.0   | 44.087 | 3.782  | 0.0 | 46.83  | 3.01  | 0.0 | 47.503 | 3.662  |
| 137 | 15949 | 15950 | SN | 1 | 0.0   | 36.529 | 3.472  | 0.0   | 45.356 | 4.437  | 0.0 | 42.946 | 4.098 | 0.0 | 46.266 | 5.166  | 0.0   | 36.9   | 3.503  | 0.0   | 44.938 | 4.224  | 0.0 | 41.594 | 4.013 | 0.0 | 47.716 | 4.895  |
| 138 | 15949 | 15950 | NS | 1 | 0.0   | 47.264 | 0.882  | 0.0   | 44.892 | 1.274  | 0.0 | 39.144 | 0.963 | 0.0 | 44.419 | 1.346  | 0.0   | 45.074 | 0.848  | 0.0   | 47.032 | 1.185  | 0.0 | 41.075 | 0.906 | 0.0 | 41.916 | 1.217  |
| 139 | 15949 | 15950 | SN | 1 | 0.0   | 35.892 | 0.951  | 0.0   | 41.687 | 1.351  | 0.0 | 35.793 | 1.358 | 0.0 | 43.851 | 1.966  | 0.0   | 35.863 | 0.971  | 0.0   | 41.786 | 1.193  | 0.0 | 36.026 | 1.284 | 0.0 | 44.322 | 1.657  |

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

|     |       |       |    |   |     |        |       |       |        |        |     |        |       |     |        |       |     |        |       |       |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|
| 140 | 15949 | 15950 | NS | 1 | 0.0 | 43.618 | 2.905 | 0.0   | 46.065 | 4.118  | 0.0 | 44.654 | 3.067 | 0.0 | 45.562 | 4.097 | 0.0 | 44.526 | 2.884 | 0.0   | 43.901 | 3.782  | 0.0 | 46.83  | 2.968 | 0.0 | 44.995 | 3.634 |
| 141 | 15949 | 15950 | SN | 1 | 0.0 | 36.529 | 3.445 | 0.0   | 45.356 | 4.496  | 0.0 | 42.946 | 4.056 | 0.0 | 46.266 | 5.196 | 0.0 | 36.9   | 3.455 | 0.0   | 44.938 | 4.279  | 0.0 | 41.594 | 3.955 | 0.0 | 47.716 | 4.928 |
| 142 | 15949 | 15950 | SN | 1 | 0.0 | 35.892 | 0.951 | 0.0   | 41.687 | 1.351  | 0.0 | 35.793 | 1.358 | 0.0 | 43.851 | 1.966 | 0.0 | 35.863 | 0.971 | 0.0   | 41.786 | 1.193  | 0.0 | 36.026 | 1.284 | 0.0 | 44.322 | 1.657 |
| 143 | 15949 | 15950 | SN | 1 | 0.0 | 35.892 | 0.947 | 0.0   | 41.687 | 1.372  | 0.0 | 35.793 | 1.343 | 0.0 | 43.851 | 1.975 | 0.0 | 35.863 | 0.968 | 0.0   | 41.786 | 1.211  | 0.0 | 36.026 | 1.26  | 0.0 | 44.322 | 1.661 |
| 144 | 15949 | 15950 | SN | 1 | 0.0 | 36.529 | 3.472 | 0.0   | 45.356 | 4.437  | 0.0 | 42.946 | 4.098 | 0.0 | 46.266 | 5.166 | 0.0 | 36.9   | 3.503 | 0.0   | 44.938 | 4.224  | 0.0 | 41.594 | 4.013 | 0.0 | 47.716 | 4.895 |
| 145 | 15950 | 15951 | SN | 1 | 0.0 | 41.085 | 0.769 | 0.0   | 35.555 | 1.172  | 0.0 | 35.584 | 1.012 | 0.0 | 36.769 | 1.574 | 0.0 | 39.89  | 0.73  | 0.0   | 37.827 | 1.023  | 0.0 | 35.863 | 0.929 | 0.0 | 34.438 | 1.224 |
| 146 | 15950 | 15951 | NS | 1 | 0.0 | 45.828 | 1.085 | 0.0   | 46.614 | 1.491  | 0.0 | 49.393 | 1.067 | 0.0 | 43.522 | 1.519 | 0.0 | 45.365 | 1.115 | 0.0   | 46.843 | 1.398  | 0.0 | 49.789 | 1.05  | 0.0 | 41.964 | 1.387 |
| 147 | 15950 | 15951 | SN | 1 | 0.0 | 37.515 | 2.685 | 0.0   | 43.848 | 3.959  | 0.0 | 37.018 | 3.102 | 0.0 | 43.978 | 4.188 | 0.0 | 38.089 | 2.56  | 0.0   | 41.534 | 3.471  | 0.0 | 36.939 | 2.84  | 0.0 | 40.528 | 3.554 |
| 148 | 15950 | 15951 | NS | 1 | 0.0 | 48.868 | 4.215 | 0.0   | 50.338 | 5.348  | 0.0 | 49.948 | 3.971 | 0.0 | 47.912 | 5.13  | 0.0 | 48.796 | 4.347 | 0.0   | 53.391 | 5.125  | 0.0 | 52.148 | 3.957 | 0.0 | 48.419 | 4.531 |
| 149 | 15950 | 15951 | SN | 1 | 0.0 | 40.896 | 2.603 | 0.0   | 44.487 | 3.909  | 0.0 | 37.018 | 3.1   | 0.0 | 39.919 | 4.098 | 0.0 | 39.688 | 2.461 | 0.0   | 43.411 | 3.442  | 0.0 | 37.623 | 2.894 | 0.0 | 40.528 | 3.515 |
| 150 | 15950 | 15951 | SN | 1 | 0.0 | 40.689 | 2.613 | 0.0   | 44.626 | 3.889  | 0.0 | 37.826 | 3.121 | 0.0 | 39.967 | 4.034 | 0.0 | 39.694 | 2.482 | 0.0   | 43.322 | 3.432  | 0.0 | 38.861 | 2.901 | 0.0 | 40.576 | 3.501 |
| 151 | 15950 | 15951 | SN | 1 | 0.0 | 38.825 | 0.759 | 0.0   | 35.426 | 1.223  | 0.0 | 38.46  | 1.026 | 0.0 | 36.865 | 1.612 | 0.0 | 38.609 | 0.727 | 0.0   | 37.827 | 1.063  | 0.0 | 37.258 | 0.924 | 0.0 | 34.438 | 1.26  |
| 152 | 15950 | 15951 | NS | 1 | 0.0 | 51.954 | 4.123 | 0.984 | 49.27  | 5.505  | 0.0 | 44.744 | 3.878 | 0.0 | 42.703 | 4.633 | 0.0 | 52.642 | 4.184 | 0.343 | 50.42  | 5.383  | 0.0 | 46.904 | 3.885 | 0.0 | 42.432 | 4.29  |
| 153 | 15950 | 15951 | SN | 1 | 0.0 | 41.18  | 0.762 | 0.0   | 35.536 | 1.161  | 0.0 | 35.584 | 1.005 | 0.0 | 36.769 | 1.581 | 0.0 | 39.984 | 0.721 | 0.0   | 35.313 | 1.016  | 0.0 | 36.211 | 0.922 | 0.0 | 34.394 | 1.222 |
| 154 | 15950 | 15951 | NS | 1 | 0.0 | 41.628 | 1.076 | 0.0   | 48.059 | 1.555  | 0.0 | 38.964 | 1.069 | 0.0 | 43.642 | 1.501 | 0.0 | 42.23  | 1.121 | 0.0   | 46.359 | 1.442  | 0.0 | 38.749 | 1.076 | 0.0 | 43.343 | 1.303 |
| 155 | 15951 | 15952 | SN | 1 | 0.0 | 42.092 | 4.891 | 0.0   | 44.886 | 6.298  | 0.0 | 37.066 | 4.95  | 0.0 | 43.468 | 6.761 | 0.0 | 43.531 | 4.86  | 0.0   | 42.828 | 5.962  | 0.0 | 37.86  | 5.163 | 0.0 | 40.83  | 6.434 |
| 156 | 15951 | 15952 | SN | 1 | 0.0 | 40.44  | 1.395 | 0.0   | 40.004 | 1.948  | 0.0 | 34.9   | 1.778 | 0.0 | 39.015 | 2.589 | 0.0 | 40.101 | 1.379 | 0.0   | 38.889 | 1.803  | 0.0 | 35.146 | 1.803 | 0.0 | 39.414 | 2.368 |
| 157 | 15951 | 15952 | SN | 1 | 0.0 | 39.226 | 1.42  | 0.0   | 40.236 | 1.925  | 0.0 | 36.13  | 1.773 | 0.0 | 37.55  | 2.597 | 0.0 | 39.266 | 1.411 | 0.0   | 40.633 | 1.783  | 0.0 | 35.198 | 1.796 | 0.0 | 37.232 | 2.316 |
| 158 | 15951 | 15952 | NS | 1 | 0.0 | 48.698 | 4.409 | 0.0   | 49.789 | 5.366  | 0.0 | 50.358 | 4.099 | 0.0 | 45.507 | 4.842 | 0.0 | 48.477 | 4.46  | 0.0   | 51.383 | 5.072  | 0.0 | 49.247 | 3.971 | 0.0 | 43.472 | 4.657 |
| 159 | 15951 | 15952 | SN | 1 | 0.0 | 39.758 | 5.091 | 0.0   | 41.709 | 6.087  | 0.0 | 35.457 | 5.42  | 0.0 | 39.608 | 6.695 | 0.0 | 40.147 | 4.996 | 0.0   | 42.905 | 5.687  | 0.0 | 36.258 | 5.537 | 0.0 | 38.656 | 6.525 |
| 160 | 15951 | 15952 | NS | 1 | 0.0 | 47.821 | 1.221 | 0.0   | 51.506 | 1.696  | 0.0 | 42.024 | 1.117 | 0.0 | 47.686 | 1.534 | 0.0 | 47.783 | 1.201 | 0.0   | 52.499 | 1.626  | 0.0 | 42.516 | 1.099 | 0.0 | 44.906 | 1.449 |
| 161 | 15951 | 15952 | NS | 1 | 0.0 | 47.53  | 1.205 | 0.0   | 51.091 | 1.698  | 0.0 | 41.361 | 1.133 | 0.0 | 47.688 | 1.555 | 0.0 | 47.783 | 1.187 | 0.0   | 52.087 | 1.619  | 0.0 | 41.856 | 1.11  | 0.0 | 44.909 | 1.463 |
| 162 | 15951 | 15952 | NS | 1 | 0.0 | 48.024 | 4.449 | 0.0   | 49.691 | 5.285  | 0.0 | 49.96  | 4.128 | 0.0 | 45.508 | 4.785 | 0.0 | 47.703 | 4.48  | 0.0   | 51.284 | 5.001  | 0.0 | 48.851 | 3.985 | 0.0 | 43.503 | 4.664 |
| 163 | 15951 | 15952 | SN | 1 | 0.0 | 39.464 | 4.972 | 0.0   | 44.696 | 6.277  | 0.0 | 37.739 | 5.085 | 0.0 | 39.235 | 6.619 | 0.0 | 39.599 | 4.86  | 0.0   | 42.905 | 5.841  | 0.0 | 40.474 | 5.234 | 0.0 | 38.656 | 6.455 |
| 164 | 15951 | 15952 | SN | 1 | 0.0 | 39.261 | 1.465 | 0.0   | 40.236 | 1.895  | 0.0 | 37.57  | 1.886 | 0.0 | 37.55  | 2.649 | 0.0 | 39.347 | 1.469 | 0.0   | 40.633 | 1.767  | 0.0 | 35.504 | 1.908 | 0.0 | 37.232 | 2.373 |
| 165 | 15952 | 15953 | SN | 1 | 0.0 | 47.12  | 8.929 | 0.0   | 51.859 | 10.366 | 0.0 | 42.849 | 7.088 | 0.0 | 41.511 | 9.223 | 0.0 | 46.056 | 8.96  | 0.0   | 52.088 | 10.211 | 0.0 | 42.374 | 7.448 | 0.0 | 43.806 | 9.353 |
| 166 | 15952 | 15953 | SN | 1 | 0.0 | 47.12  | 9.103 | 0.0   | 51.859 | 10.35  | 0.0 | 42.849 | 7.007 | 0.0 | 42.601 | 9.124 | 0.0 | 46.056 | 9.184 | 0.0   | 52.088 | 10.178 | 0.0 | 42.374 | 7.383 | 0.0 | 43.861 | 9.224 |
| 167 | 15952 | 15953 | SN | 1 | 0.0 | 50.132 | 9.123 | 0.0   | 51.345 | 10.371 | 0.0 | 49.603 | 6.95  | 0.0 | 39.725 | 8.931 | 0.0 | 49.26  | 9.184 | 0.0   | 51.575 | 10.137 | 0.0 | 46.212 | 7.298 | 0.0 | 39.173 | 9.152 |
| 168 | 15952 | 15953 | NS | 1 | 0.0 | 53.288 | 4.183 | 0.0   | 49.261 | 4.412  | 0.0 | 51.028 | 4.213 | 0.0 | 52.352 | 4.75  | 0.0 | 53.337 | 4.254 | 0.0   | 52.473 | 4.402  | 0.0 | 51.043 | 4.063 | 0.0 | 49.765 | 4.209 |
| 169 | 15952 | 15953 | NS | 1 | 0.0 | 55.092 | 4.206 | 0.0   | 50.582 | 4.462  | 0.0 | 50.66  | 4.22  | 0.0 | 49.595 | 4.735 | 0.0 | 55.955 | 4.277 | 0.0   | 50.08  | 4.289  | 0.0 | 49.885 | 4.192 | 0.0 | 45.076 | 4.23  |
| 170 | 15952 | 15953 | NS | 1 | 0.0 | 50.915 | 1.158 | 0.0   | 43.087 | 1.325  | 0.0 | 44.657 | 1.17  | 0.0 | 47.864 | 1.536 | 0.0 | 50.053 | 1.153 | 0.0   | 46.005 | 1.266  | 0.0 | 43.913 | 1.144 | 0.0 | 43.013 | 1.301 |
| 171 | 15952 | 15953 | SN | 1 | 0.0 | 50.086 | 2.344 | 0.0   | 46.04  | 3.18   | 0.0 | 45.279 | 2.079 | 0.0 | 40.493 | 2.96  | 0.0 | 47.93  | 2.405 | 0.0   | 48.736 | 3.166  | 0.0 | 44.718 | 2.068 | 0.0 | 41.919 | 2.859 |
| 172 | 15952 | 15953 | SN | 1 | 0.0 | 47.921 | 2.313 | 0.0   | 43.042 | 3.194  | 0.0 | 46.164 | 2.092 | 0.0 | 46.439 | 2.983 | 0.0 | 48.977 | 2.377 | 0.0   | 42.77  | 3.176  | 0.0 | 45.605 | 2.147 | 0.0 | 46.828 | 2.945 |
| 173 | 15952 | 15953 | NS | 1 | 0.0 | 50.915 | 1.166 | 0.0   | 46.645 | 1.357  | 0.0 | 48.189 | 1.163 | 0.0 | 48.166 | 1.553 | 0.0 | 50.626 | 1.169 | 0.0   | 45.037 | 1.312  | 0.0 | 48.249 | 1.143 | 0.0 | 42.725 | 1.325 |
| 174 | 15952 | 15953 | SN | 1 | 0.0 | 47.284 | 2.312 | 0.0   | 43.042 | 3.186  | 0.0 | 46.164 | 2.056 | 0.0 | 46.439 | 2.96  | 0.0 | 48.339 | 2.387 | 0.0   | 42.77  | 3.164  | 0.0 | 45.605 | 2.118 | 0.0 | 46.828 | 2.925 |
| 175 | 15953 | 15954 | SN | 1 | 0.0 | 43.861 | 2.147 | 0.0   | 49.309 | 2.886  | 0.0 | 44.86  | 1.829 | 0.0 | 44.516 | 2.338 | 0.0 | 44.45  | 2.158 | 0.0   | 48.124 | 2.898  | 0.0 | 41.189 | 1.916 | 0.0 | 44.105 | 2.436 |

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

|     |       |       |    |   |     |        |       |     |        |        |     |        |       |     |        |       |     |        |       |     |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-----|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 176 | 15953 | 15954 | NS | 1 | 0.0 | 48.481 | 4.815 | 0.0 | 54.521 | 6.364  | 0.0 | 44.713 | 4.207 | 0.0 | 41.453 | 5.028 | 0.0 | 49.186 | 4.805 | 0.0 | 55.572 | 6.079  | 0.0 | 45.67  | 4.165 | 0.0 | 40.685 | 4.644 |
| 177 | 15953 | 15954 | NS | 1 | 0.0 | 48.475 | 4.835 | 0.0 | 54.215 | 6.333  | 0.0 | 44.475 | 4.214 | 0.0 | 41.439 | 5.064 | 0.0 | 49.179 | 4.846 | 0.0 | 55.266 | 6.059  | 0.0 | 45.432 | 4.157 | 0.0 | 40.672 | 4.672 |
| 178 | 15953 | 15954 | SN | 1 | 0.0 | 50.785 | 8.683 | 0.0 | 48.351 | 10.448 | 0.0 | 44.987 | 6.437 | 0.0 | 48.387 | 8.003 | 0.0 | 49.986 | 8.957 | 0.0 | 49.567 | 10.326 | 0.0 | 45.281 | 6.742 | 0.0 | 48.085 | 8.288 |
| 179 | 15953 | 15954 | SN | 1 | 0.0 | 50.785 | 8.683 | 0.0 | 48.351 | 10.448 | 0.0 | 44.987 | 6.437 | 0.0 | 48.387 | 8.003 | 0.0 | 49.986 | 8.957 | 0.0 | 49.567 | 10.326 | 0.0 | 45.281 | 6.742 | 0.0 | 48.085 | 8.288 |
| 180 | 15953 | 15954 | SN | 1 | 0.0 | 50.785 | 8.588 | 0.0 | 48.351 | 10.267 | 0.0 | 44.987 | 6.522 | 0.0 | 48.387 | 8.01  | 0.0 | 49.986 | 8.874 | 0.0 | 49.567 | 10.129 | 0.0 | 45.281 | 6.819 | 0.0 | 48.085 | 8.278 |
| 181 | 15953 | 15954 | SN | 1 | 0.0 | 43.861 | 2.14  | 0.0 | 47.711 | 2.833  | 0.0 | 44.86  | 1.864 | 0.0 | 44.516 | 2.362 | 0.0 | 44.45  | 2.159 | 0.0 | 48.124 | 2.874  | 0.0 | 41.189 | 1.959 | 0.0 | 44.105 | 2.47  |
| 182 | 15953 | 15954 | SN | 1 | 0.0 | 43.861 | 2.147 | 0.0 | 49.309 | 2.886  | 0.0 | 44.86  | 1.829 | 0.0 | 44.516 | 2.338 | 0.0 | 44.45  | 2.158 | 0.0 | 48.124 | 2.898  | 0.0 | 41.189 | 1.916 | 0.0 | 44.105 | 2.436 |
| 183 | 15953 | 15954 | NS | 1 | 0.0 | 46.141 | 1.284 | 0.0 | 45.576 | 1.832  | 0.0 | 43.684 | 1.354 | 0.0 | 39.759 | 1.786 | 0.0 | 47.307 | 1.303 | 0.0 | 47.244 | 1.728  | 0.0 | 45.964 | 1.256 | 0.0 | 40.008 | 1.497 |
| 184 | 15953 | 15954 | NS | 1 | 0.0 | 45.926 | 1.275 | 0.0 | 45.624 | 1.836  | 0.0 | 42.655 | 1.343 | 0.0 | 41.212 | 1.775 | 0.0 | 47.09  | 1.287 | 0.0 | 47.293 | 1.726  | 0.0 | 44.718 | 1.233 | 0.0 | 41.46  | 1.491 |
| 185 | 15954 | 15955 | SN | 1 | 0.0 | 52.159 | 5.588 | 0.0 | 54.3   | 7.377  | 0.0 | 46.413 | 5.537 | 0.0 | 43.864 | 6.455 | 0.0 | 52.86  | 5.665 | 0.0 | 54.96  | 7.187  | 0.0 | 46.365 | 5.63  | 0.0 | 44.908 | 6.72  |
| 186 | 15954 | 15955 | SN | 1 | 0.0 | 50.989 | 1.778 | 0.0 | 51.48  | 2.428  | 0.0 | 44.015 | 1.577 | 0.0 | 49.489 | 2.051 | 0.0 | 50.961 | 1.826 | 0.0 | 52.067 | 2.398  | 0.0 | 43.735 | 1.607 | 0.0 | 48.543 | 2.063 |
| 187 | 15954 | 15955 | NS | 1 | 0.0 | 44.931 | 4.744 | 0.0 | 49.66  | 6.099  | 0.0 | 40.691 | 4.507 | 0.0 | 43.135 | 5.413 | 0.0 | 45.132 | 4.774 | 0.0 | 49.292 | 6.089  | 0.0 | 39.133 | 4.628 | 0.0 | 43.872 | 5.335 |
| 188 | 15954 | 15955 | SN | 1 | 0.0 | 53.973 | 5.459 | 0.0 | 54.3   | 7.788  | 0.0 | 49.018 | 5.548 | 0.0 | 43.864 | 6.844 | 0.0 | 54.175 | 5.53  | 0.0 | 54.96  | 7.625  | 0.0 | 51.852 | 5.59  | 0.0 | 44.908 | 7.1   |
| 189 | 15954 | 15955 | NS | 1 | 0.0 | 47.694 | 5.027 | 0.0 | 52.152 | 5.928  | 0.0 | 41.091 | 4.255 | 0.0 | 48.399 | 5.308 | 0.0 | 48.449 | 5.2   | 0.0 | 50.351 | 5.897  | 0.0 | 39.948 | 4.469 | 0.0 | 47.415 | 5.429 |
| 190 | 15954 | 15955 | SN | 1 | 0.0 | 52.199 | 5.449 | 0.0 | 54.3   | 7.696  | 0.0 | 48.127 | 5.569 | 0.0 | 45.038 | 6.858 | 0.0 | 52.901 | 5.53  | 0.0 | 56.829 | 7.554  | 0.0 | 50.964 | 5.569 | 0.0 | 46.081 | 7.1   |
| 191 | 15954 | 15955 | SN | 1 | 0.0 | 43.028 | 1.762 | 0.0 | 51.48  | 2.299  | 0.0 | 44.015 | 1.567 | 0.0 | 49.489 | 1.989 | 0.0 | 44.516 | 1.807 | 0.0 | 52.067 | 2.304  | 0.0 | 43.735 | 1.62  | 0.0 | 48.543 | 2.036 |
| 192 | 15954 | 15955 | NS | 1 | 0.0 | 45.934 | 1.363 | 0.0 | 51.24  | 2.015  | 0.0 | 48.143 | 1.277 | 0.0 | 49.289 | 1.621 | 0.0 | 45.582 | 1.429 | 0.0 | 50.477 | 1.954  | 0.0 | 49.19  | 1.275 | 0.0 | 48.87  | 1.701 |
| 193 | 15954 | 15955 | NS | 1 | 0.0 | 41.685 | 1.443 | 0.0 | 53.961 | 1.965  | 0.0 | 38.223 | 1.265 | 0.0 | 45.364 | 1.699 | 0.0 | 41.939 | 1.447 | 0.0 | 54.391 | 1.929  | 0.0 | 36.42  | 1.274 | 0.0 | 46.045 | 1.648 |
| 194 | 15954 | 15955 | SN | 1 | 0.0 | 49.218 | 1.765 | 0.0 | 51.48  | 2.421  | 0.0 | 44.015 | 1.584 | 0.0 | 49.489 | 2.084 | 0.0 | 49.189 | 1.828 | 0.0 | 52.067 | 2.401  | 0.0 | 43.733 | 1.616 | 0.0 | 48.543 | 2.079 |
| 195 | 15955 | 15956 | SN | 1 | 0.0 | 48.947 | 4.01  | 0.0 | 49.224 | 5.626  | 0.0 | 48.177 | 3.603 | 0.0 | 42.253 | 4.604 | 0.0 | 47.912 | 4.05  | 0.0 | 49.993 | 5.697  | 0.0 | 47.702 | 3.879 | 0.0 | 42.353 | 4.597 |
| 196 | 15955 | 15956 | SN | 1 | 0.0 | 48.947 | 4.01  | 0.0 | 49.224 | 5.626  | 0.0 | 48.177 | 3.603 | 0.0 | 42.253 | 4.604 | 0.0 | 47.912 | 4.05  | 0.0 | 49.993 | 5.697  | 0.0 | 47.702 | 3.879 | 0.0 | 42.353 | 4.597 |
| 197 | 15955 | 15956 | SN | 1 | 0.0 | 44.745 | 1.32  | 0.0 | 39.711 | 1.816  | 0.0 | 40.166 | 1.069 | 0.0 | 39.142 | 1.591 | 0.0 | 44.272 | 1.341 | 0.0 | 41.288 | 1.789  | 0.0 | 39.104 | 1.092 | 0.0 | 38.135 | 1.533 |
| 198 | 15955 | 15956 | NS | 1 | 0.0 | 45.284 | 1.703 | 0.0 | 50.76  | 2.303  | 0.0 | 40.624 | 1.483 | 0.0 | 43.969 | 1.947 | 0.0 | 46.496 | 1.75  | 0.0 | 49.928 | 2.201  | 0.0 | 40.382 | 1.456 | 0.0 | 41.686 | 1.796 |
| 199 | 15955 | 15956 | NS | 1 | 0.0 | 46.58  | 7.079 | 0.0 | 52.788 | 8.023  | 0.0 | 43.52  | 5.529 | 0.0 | 47.4   | 6.462 | 0.0 | 46.645 | 7.069 | 0.0 | 53.941 | 7.901  | 0.0 | 43.948 | 5.807 | 0.0 | 42.626 | 6.234 |
| 200 | 15955 | 15956 | NS | 1 | 0.0 | 53.443 | 7.038 | 0.0 | 53.933 | 8.013  | 0.0 | 49.091 | 5.444 | 0.0 | 47.4   | 6.576 | 0.0 | 53.381 | 7.099 | 0.0 | 54.227 | 7.84   | 0.0 | 50.053 | 5.728 | 0.0 | 42.626 | 6.27  |
| 201 | 15955 | 15956 | NS | 1 | 0.0 | 44.775 | 1.68  | 0.0 | 50.76  | 2.289  | 0.0 | 39.948 | 1.49  | 0.0 | 43.055 | 1.927 | 0.0 | 45.72  | 1.716 | 0.0 | 49.928 | 2.219  | 0.0 | 38.682 | 1.479 | 0.0 | 40.774 | 1.803 |
| 202 | 15955 | 15956 | SN | 1 | 0.0 | 44.745 | 1.32  | 0.0 | 39.711 | 1.816  | 0.0 | 40.166 | 1.069 | 0.0 | 39.142 | 1.591 | 0.0 | 44.272 | 1.341 | 0.0 | 41.288 | 1.789  | 0.0 | 39.104 | 1.092 | 0.0 | 38.135 | 1.533 |
| 203 | 15956 | 15957 | NS | 1 | 0.0 | 48.141 | 5.24  | 0.0 | 55.294 | 6.788  | 0.0 | 44.339 | 4.781 | 0.0 | 53.121 | 6.665 | 0.0 | 49.517 | 5.362 | 0.0 | 57.232 | 6.534  | 0.0 | 44.825 | 4.803 | 0.0 | 56.132 | 6.188 |
| 204 | 15956 | 15957 | SN | 1 | 0.0 | 45.791 | 1.561 | 0.0 | 51.165 | 1.833  | 0.0 | 43.483 | 1.413 | 0.0 | 48.152 | 1.761 | 0.0 | 45.789 | 1.55  | 0.0 | 49.525 | 1.749  | 0.0 | 46.268 | 1.367 | 0.0 | 45.43  | 1.656 |
| 205 | 15956 | 15957 | SN | 1 | 0.0 | 49.875 | 6.274 | 0.0 | 55.257 | 7.405  | 0.0 | 47.991 | 4.559 | 0.0 | 46.667 | 5.459 | 0.0 | 49.783 | 6.325 | 0.0 | 53.739 | 7.191  | 0.0 | 50.317 | 4.743 | 0.0 | 44.162 | 5.174 |
| 206 | 15956 | 15957 | NS | 1 | 0.0 | 48.141 | 1.395 | 0.0 | 53.907 | 2.044  | 0.0 | 46.854 | 1.404 | 0.0 | 51.789 | 2.108 | 0.0 | 49.517 | 1.406 | 0.0 | 55.824 | 1.899  | 0.0 | 44.641 | 1.381 | 0.0 | 51.316 | 1.908 |
| 207 | 15956 | 15957 | NS | 1 | 0.0 | 48.141 | 1.395 | 0.0 | 53.907 | 2.044  | 0.0 | 46.854 | 1.404 | 0.0 | 51.789 | 2.108 | 0.0 | 49.517 | 1.406 | 0.0 | 55.824 | 1.899  | 0.0 | 44.641 | 1.381 | 0.0 | 51.316 | 1.908 |
| 208 | 15956 | 15957 | NS | 1 | 0.0 | 48.141 | 5.24  | 0.0 | 55.294 | 6.788  | 0.0 | 44.339 | 4.781 | 0.0 | 53.121 | 6.665 | 0.0 | 49.517 | 5.362 | 0.0 | 57.232 | 6.534  | 0.0 | 44.825 | 4.803 | 0.0 | 56.132 | 6.188 |
| 209 | 15957 | 15958 | NS | 1 | 0.0 | 41.812 | 0.887 | 0.0 | 41.432 | 1.101  | 0.0 | 37.686 | 1.048 | 0.0 | 52.278 | 1.77  | 0.0 | 42.04  | 0.889 | 0.0 | 40.764 | 0.969  | 0.0 | 37.208 | 0.986 | 0.0 | 48.262 | 1.494 |
| 210 | 15957 | 15958 | SN | 1 | 0.0 | 45.479 | 1.386 | 0.0 | 45.244 | 1.654  | 0.0 | 40.626 | 0.987 | 0.0 | 43.084 | 1.423 | 0.0 | 47.158 | 1.379 | 0.0 | 46.278 | 1.541  | 0.0 | 43.77  | 0.98  | 0.0 | 42.796 | 1.258 |
| 211 | 15957 | 15958 | SN | 1 | 0.0 | 45.649 | 1.382 | 0.0 | 45.451 | 1.666  | 0.0 | 46.387 | 1.016 | 0.0 | 40.169 | 1.391 | 0.0 | 46.142 | 1.384 | 0.0 | 45.786 | 1.532  | 0.0 | 46.432 | 0.975 | 0.0 | 41.0   | 1.255 |

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

|     |       |       |    |   |       |        |        |     |        |        |     |        |       |     |        |        |       |        |        |     |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-------|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|--------|-------|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 212 | 15957 | 15958 | SN | 1 | 0.0   | 50.353 | 4.82   | 0.0 | 52.533 | 5.099  | 0.0 | 48.308 | 3.759 | 0.0 | 48.208 | 5.11   | 0.0   | 50.925 | 4.881  | 0.0 | 51.304 | 4.845  | 0.0 | 47.906 | 3.695 | 0.0 | 48.686 | 4.769 |
| 213 | 15957 | 15958 | SN | 1 | 0.0   | 48.833 | 4.81   | 0.0 | 57.282 | 5.109  | 0.0 | 48.441 | 3.773 | 0.0 | 49.739 | 5.068  | 0.0   | 50.145 | 4.881  | 0.0 | 57.083 | 4.804  | 0.0 | 49.113 | 3.766 | 0.0 | 48.663 | 4.633 |
| 214 | 15957 | 15958 | NS | 1 | 0.0   | 48.692 | 2.753  | 0.0 | 45.766 | 3.353  | 0.0 | 43.164 | 3.217 | 0.0 | 48.666 | 4.814  | 0.0   | 50.474 | 2.753  | 0.0 | 45.984 | 3.059  | 0.0 | 43.348 | 3.004 | 0.0 | 49.2   | 4.144 |
| 215 | 15957 | 15958 | NS | 1 | 0.0   | 48.692 | 2.767  | 0.0 | 45.766 | 3.37   | 0.0 | 43.164 | 3.228 | 0.0 | 48.666 | 4.839  | 0.0   | 50.474 | 2.767  | 0.0 | 45.984 | 3.074  | 0.0 | 43.348 | 3.013 | 0.0 | 49.2   | 4.166 |
| 216 | 15957 | 15958 | NS | 1 | 0.0   | 41.812 | 0.882  | 0.0 | 41.432 | 1.097  | 0.0 | 37.686 | 1.043 | 0.0 | 52.278 | 1.763  | 0.0   | 42.04  | 0.884  | 0.0 | 40.764 | 0.966  | 0.0 | 37.208 | 0.979 | 0.0 | 48.262 | 1.488 |
| 217 | 15958 | 15959 | NS | 1 | 0.0   | 50.618 | 1.003  | 0.0 | 47.134 | 1.419  | 0.0 | 42.754 | 1.212 | 0.0 | 43.608 | 1.599  | 0.0   | 52.659 | 0.974  | 0.0 | 49.794 | 1.335  | 0.0 | 43.317 | 1.11  | 0.0 | 42.714 | 1.429 |
| 218 | 15958 | 15959 | NS | 1 | 0.0   | 57.109 | 3.706  | 0.0 | 53.285 | 4.493  | 0.0 | 43.364 | 3.814 | 0.0 | 50.155 | 4.537  | 0.0   | 57.947 | 3.727  | 0.0 | 51.647 | 4.402  | 0.0 | 41.102 | 3.714 | 0.0 | 47.789 | 4.16  |
| 219 | 15958 | 15959 | SN | 1 | 0.0   | 49.182 | 0.992  | 0.0 | 45.881 | 1.498  | 0.0 | 38.74  | 1.051 | 0.0 | 45.544 | 1.402  | 0.0   | 49.432 | 0.971  | 0.0 | 47.356 | 1.442  | 0.0 | 38.34  | 1.026 | 0.0 | 43.045 | 1.326 |
| 220 | 15958 | 15959 | NS | 1 | 0.0   | 50.616 | 0.999  | 0.0 | 47.188 | 1.409  | 0.0 | 42.838 | 1.202 | 0.0 | 43.861 | 1.599  | 0.0   | 52.658 | 0.979  | 0.0 | 49.64  | 1.321  | 0.0 | 43.4   | 1.106 | 0.0 | 42.816 | 1.436 |
| 221 | 15958 | 15959 | SN | 1 | 0.0   | 48.661 | 0.978  | 0.0 | 44.558 | 1.51   | 0.0 | 42.338 | 1.069 | 0.0 | 38.974 | 1.434  | 0.0   | 48.909 | 0.992  | 0.0 | 45.946 | 1.455  | 0.0 | 42.871 | 1.033 | 0.0 | 37.395 | 1.347 |
| 222 | 15958 | 15959 | NS | 1 | 0.0   | 50.618 | 1.035  | 0.0 | 47.134 | 1.458  | 0.0 | 42.754 | 1.251 | 0.0 | 43.608 | 1.646  | 0.0   | 52.659 | 1.005  | 0.0 | 49.794 | 1.372  | 0.0 | 43.317 | 1.151 | 0.0 | 42.714 | 1.471 |
| 223 | 15958 | 15959 | SN | 1 | 0.0   | 54.165 | 3.615  | 0.0 | 51.749 | 4.937  | 0.0 | 46.279 | 3.589 | 0.0 | 45.175 | 4.961  | 0.0   | 54.074 | 3.615  | 0.0 | 48.558 | 4.733  | 0.0 | 43.367 | 3.433 | 0.0 | 45.037 | 4.427 |
| 224 | 15958 | 15959 | NS | 1 | 0.0   | 57.111 | 3.855  | 0.0 | 53.031 | 4.622  | 0.0 | 43.741 | 3.942 | 0.0 | 48.109 | 4.654  | 0.0   | 57.949 | 3.865  | 0.0 | 51.391 | 4.539  | 0.0 | 41.481 | 3.861 | 0.0 | 46.406 | 4.288 |
| 225 | 15958 | 15959 | NS | 1 | 0.0   | 57.111 | 3.737  | 0.0 | 53.031 | 4.503  | 0.0 | 43.741 | 3.835 | 0.0 | 48.109 | 4.537  | 0.0   | 57.949 | 3.747  | 0.0 | 51.391 | 4.432  | 0.0 | 41.481 | 3.757 | 0.0 | 46.406 | 4.167 |
| 226 | 15958 | 15959 | SN | 1 | 0.0   | 53.116 | 3.605  | 0.0 | 52.842 | 4.896  | 0.0 | 47.033 | 3.582 | 0.0 | 44.456 | 4.897  | 0.0   | 53.213 | 3.595  | 0.0 | 49.899 | 4.683  | 0.0 | 44.115 | 3.511 | 0.0 | 44.317 | 4.413 |
| 227 | 15959 | 15960 | SN | 1 | 0.0   | 43.656 | 1.282  | 0.0 | 40.094 | 1.816  | 0.0 | 41.438 | 1.39  | 0.0 | 38.856 | 2.29   | 0.0   | 44.649 | 1.361  | 0.0 | 40.178 | 1.85   | 0.0 | 41.104 | 1.447 | 0.0 | 36.822 | 2.178 |
| 228 | 15959 | 15960 | NS | 1 | 0.0   | 41.258 | 1.368  | 0.0 | 43.257 | 1.825  | 0.0 | 34.636 | 1.294 | 0.0 | 42.996 | 2.068  | 0.0   | 41.544 | 1.353  | 0.0 | 43.492 | 1.695  | 0.0 | 34.954 | 1.223 | 0.0 | 41.555 | 1.853 |
| 229 | 15959 | 15960 | SN | 1 | 0.0   | 47.835 | 4.353  | 0.0 | 53.399 | 5.32   | 0.0 | 43.732 | 4.637 | 0.0 | 46.351 | 6.467  | 0.0   | 48.482 | 4.545  | 0.0 | 54.019 | 5.32   | 0.0 | 45.459 | 4.736 | 0.0 | 48.025 | 6.36  |
| 230 | 15959 | 15960 | NS | 1 | 0.0   | 42.954 | 3.954  | 0.0 | 45.975 | 5.453  | 0.0 | 42.25  | 3.757 | 0.0 | 48.333 | 5.594  | 0.0   | 43.324 | 3.921  | 0.0 | 48.69  | 5.279  | 0.0 | 42.139 | 3.788 | 0.0 | 45.129 | 5.052 |
| 231 | 15959 | 15960 | NS | 1 | 0.0   | 41.258 | 1.275  | 0.0 | 43.257 | 1.703  | 0.0 | 36.095 | 1.213 | 0.0 | 42.996 | 1.93   | 0.0   | 41.544 | 1.262  | 0.0 | 43.492 | 1.581  | 0.0 | 34.954 | 1.14  | 0.0 | 41.555 | 1.729 |
| 232 | 15959 | 15960 | NS | 1 | 0.0   | 41.258 | 1.275  | 0.0 | 43.257 | 1.703  | 0.0 | 36.095 | 1.213 | 0.0 | 42.996 | 1.93   | 0.0   | 41.544 | 1.262  | 0.0 | 43.492 | 1.581  | 0.0 | 34.954 | 1.139 | 0.0 | 41.555 | 1.729 |
| 233 | 15959 | 15960 | SN | 1 | 0.0   | 43.656 | 1.282  | 0.0 | 40.094 | 1.816  | 0.0 | 41.438 | 1.39  | 0.0 | 38.856 | 2.29   | 0.0   | 44.649 | 1.361  | 0.0 | 40.178 | 1.85   | 0.0 | 41.104 | 1.447 | 0.0 | 36.822 | 2.178 |
| 234 | 15959 | 15960 | SN | 1 | 0.0   | 47.835 | 4.353  | 0.0 | 53.399 | 5.32   | 0.0 | 43.732 | 4.637 | 0.0 | 46.351 | 6.467  | 0.0   | 48.482 | 4.545  | 0.0 | 54.019 | 5.32   | 0.0 | 45.459 | 4.736 | 0.0 | 48.025 | 6.36  |
| 235 | 15959 | 15960 | NS | 1 | 0.251 | 42.954 | 3.688  | 0.0 | 45.975 | 5.103  | 0.0 | 42.25  | 3.523 | 0.0 | 48.333 | 5.235  | 0.689 | 43.324 | 3.657  | 0.0 | 48.69  | 4.941  | 0.0 | 42.139 | 3.544 | 0.0 | 45.129 | 4.722 |
| 236 | 15959 | 15960 | NS | 1 | 0.257 | 42.954 | 3.688  | 0.0 | 45.975 | 5.103  | 0.0 | 42.25  | 3.523 | 0.0 | 48.333 | 5.235  | 0.696 | 43.324 | 3.657  | 0.0 | 48.69  | 4.941  | 0.0 | 42.139 | 3.544 | 0.0 | 45.129 | 4.722 |
| 237 | 15960 | 15961 | NS | 1 | 0.0   | 49.345 | 10.056 | 0.0 | 55.742 | 10.686 | 0.0 | 46.101 | 8.591 | 0.0 | 48.678 | 10.073 | 0.0   | 48.721 | 10.356 | 0.0 | 54.708 | 10.571 | 0.0 | 43.806 | 8.631 | 0.0 | 45.508 | 9.838 |
| 238 | 15960 | 15961 | SN | 1 | 0.0   | 52.248 | 1.222  | 0.0 | 47.013 | 1.701  | 0.0 | 44.854 | 1.136 | 0.0 | 39.916 | 1.568  | 0.0   | 53.051 | 1.19   | 0.0 | 47.236 | 1.617  | 0.0 | 42.485 | 1.101 | 0.0 | 38.118 | 1.385 |
| 239 | 15960 | 15961 | SN | 1 | 0.0   | 48.075 | 4.3    | 0.0 | 51.291 | 5.388  | 0.0 | 45.869 | 3.356 | 0.0 | 44.804 | 5.198  | 0.0   | 49.194 | 4.311  | 0.0 | 51.993 | 5.199  | 0.0 | 46.215 | 3.192 | 0.0 | 42.146 | 4.512 |
| 240 | 15960 | 15961 | SN | 1 | 0.0   | 38.666 | 1.016  | 0.0 | 51.261 | 1.591  | 0.0 | 44.072 | 0.992 | 0.0 | 45.527 | 1.608  | 0.0   | 39.379 | 0.959  | 0.0 | 48.747 | 1.475  | 0.0 | 41.702 | 0.953 | 0.0 | 41.354 | 1.385 |
| 241 | 15960 | 15961 | NS | 1 | 0.766 | 49.345 | 8.907  | 0.0 | 55.742 | 9.467  | 0.0 | 46.101 | 7.542 | 0.0 | 48.678 | 8.87   | 0.809 | 48.721 | 9.151  | 0.0 | 54.708 | 9.396  | 0.0 | 43.806 | 7.571 | 0.0 | 45.508 | 8.663 |
| 242 | 15960 | 15961 | NS | 1 | 0.761 | 47.699 | 8.999  | 0.0 | 52.53  | 9.447  | 0.0 | 46.654 | 7.578 | 0.0 | 43.953 | 8.799  | 0.804 | 48.721 | 9.212  | 0.0 | 51.933 | 9.335  | 0.0 | 49.786 | 7.571 | 0.0 | 44.192 | 8.671 |
| 243 | 15960 | 15961 | SN | 1 | 0.0   | 51.517 | 1.226  | 0.0 | 48.898 | 1.703  | 0.0 | 46.364 | 1.129 | 0.0 | 39.916 | 1.568  | 0.0   | 52.32  | 1.192  | 0.0 | 49.126 | 1.608  | 0.0 | 50.134 | 1.097 | 0.0 | 38.118 | 1.389 |
| 244 | 15960 | 15961 | NS | 1 | 0.0   | 42.156 | 2.351  | 0.0 | 46.303 | 2.836  | 0.0 | 42.379 | 2.165 | 0.0 | 45.96  | 2.911  | 0.0   | 42.176 | 2.38   | 0.0 | 44.311 | 2.718  | 0.0 | 42.256 | 2.168 | 0.0 | 45.254 | 2.826 |
| 245 | 15960 | 15961 | NS | 1 | 0.0   | 43.033 | 2.324  | 0.0 | 52.397 | 2.809  | 0.0 | 43.992 | 2.129 | 0.0 | 45.808 | 2.892  | 0.0   | 43.317 | 2.349  | 0.0 | 48.608 | 2.691  | 0.0 | 46.38  | 2.152 | 0.0 | 45.102 | 2.805 |
| 246 | 15960 | 15961 | SN | 1 | 0.0   | 53.276 | 5.246  | 0.0 | 51.444 | 6.079  | 0.0 | 43.401 | 4.058 | 0.0 | 44.804 | 5.35   | 0.0   | 54.722 | 5.316  | 0.0 | 51.993 | 5.826  | 0.0 | 43.781 | 3.93  | 0.0 | 42.146 | 4.688 |
| 247 | 15960 | 15961 | SN | 1 | 0.0   | 54.006 | 5.225  | 0.0 | 51.501 | 6.079  | 0.0 | 43.418 | 4.079 | 0.0 | 44.804 | 5.357  | 0.0   | 55.454 | 5.327  | 0.0 | 51.993 | 5.826  | 0.0 | 43.891 | 3.937 | 0.0 | 42.146 | 4.695 |

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



|     |       |       |    |   |       |        |        |     |        |        |     |        |       |     |        |        |       |        |        |     |        |        |     |        |       |     |        |        |
|-----|-------|-------|----|---|-------|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|--------|-------|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|--------|
| 248 | 15960 | 15961 | NS | 1 | 0.0   | 43.033 | 2.637  | 0.0 | 52.397 | 3.18   | 0.0 | 43.992 | 2.416 | 0.0 | 45.808 | 3.284  | 0.0   | 43.317 | 2.655  | 0.0 | 48.608 | 3.047  | 0.0 | 46.38  | 2.433 | 0.0 | 45.102 | 3.187  |
| 249 | 15961 | 15962 | NS | 1 | 0.0   | 51.931 | 3.199  | 0.0 | 52.542 | 3.998  | 0.0 | 39.599 | 2.468 | 0.0 | 44.105 | 3.435  | 0.0   | 51.587 | 3.267  | 0.0 | 53.184 | 3.979  | 0.0 | 40.796 | 2.568 | 0.0 | 42.594 | 3.489  |
| 250 | 15961 | 15962 | NS | 1 | 0.0   | 46.976 | 3.206  | 0.0 | 54.496 | 4.013  | 0.0 | 43.653 | 2.472 | 0.0 | 45.275 | 3.432  | 0.0   | 46.632 | 3.246  | 0.0 | 55.137 | 4.007  | 0.0 | 42.618 | 2.55  | 0.0 | 43.207 | 3.499  |
| 251 | 15961 | 15962 | NS | 1 | 0.589 | 49.827 | 10.4   | 0.0 | 52.799 | 12.609 | 0.0 | 47.474 | 8.859 | 0.0 | 48.669 | 10.551 | 0.086 | 50.273 | 10.644 | 0.0 | 55.779 | 12.711 | 0.0 | 46.857 | 9.165 | 0.0 | 47.5   | 10.965 |
| 252 | 15961 | 15962 | NS | 1 | 0.0   | 52.643 | 10.358 | 0.0 | 53.285 | 12.65  | 0.0 | 49.102 | 8.951 | 0.0 | 47.112 | 10.587 | 0.0   | 52.664 | 10.602 | 0.0 | 56.264 | 12.721 | 0.0 | 50.441 | 9.3   | 0.0 | 47.147 | 10.886 |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| 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     | 15932       | 15933     | SN   | 1    | 0.0           | 22.126  | 6.04       | 0.0        | 266.719 | 7.567      | 0.0       | 163.713 | 2.906      | 0.0        | 96.3   | 4.27       | 0.0             | 1.433 | 0.0        | 1.786      | 0.0   | 0.0        | 1.849     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 2     | 15932       | 15933     | SN   | 1    | 0.0           | 22.126  | 6.029      | 0.0        | 161.978 | 7.562      | 0.0       | 163.779 | 2.908      | 0.0        | 64.018 | 4.274      | 0.0             | 1.433 | 0.0        | 1.786      | 0.0   | 0.0        | 1.849     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 3     | 15932       | 15933     | SN   | 1    | 0.0           | 22.126  | 6.096      | 0.0        | 161.978 | 7.486      | 0.0       | 163.779 | 2.992      | 0.0        | 40.858 | 4.085      | 0.0             | 1.433 | 0.0        | 1.786      | 0.0   | 0.0        | 1.849     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 4     | 15932       | 15933     | SN   | 1    | 0.0           | 29.814  | 13.506     | 0.0        | 156.993 | 12.696     | 0.0       | 158.115 | 11.293     | 0.0        | 16.421 | 13.507     | 0.0             | 1.45  | 0.0        | 1.785      | 0.0   | 0.0        | 1.847     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 5     | 15932       | 15933     | SN   | 1    | 0.0           | 29.814  | 13.42      | 0.0        | 156.993 | 13.18      | 0.0       | 158.115 | 11.011     | 0.0        | 64.404 | 14.152     | 0.0             | 1.45  | 0.0        | 1.785      | 0.0   | 0.0        | 1.847     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 6     | 15932       | 15933     | SN   | 1    | 0.0           | 29.814  | 13.42      | 0.0        | 238.157 | 13.18      | 0.0       | 158.076 | 10.997     | 0.0        | 64.404 | 14.152     | 0.0             | 1.449 | 0.0        | 1.785      | 0.0   | 0.0        | 1.847     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 7     | 15933       | 15934     | NS   | 1    | 0.0           | 69.575  | 5.972      | 0.0        | 24.553  | 6.564      | 0.0       | 306.085 | 2.112      | 0.0        | 41.897 | 2.87       | 0.0             | 1.442 | 0.0        | 1.78       | 0.0   | 0.0        | 1.848     | 0.0   | 0.0        | 2.138      | 0.0   |            |
| 8     | 15933       | 15934     | NS   | 1    | 0.0           | 69.575  | 5.972      | 0.0        | 24.553  | 6.564      | 0.0       | 306.085 | 2.113      | 0.0        | 41.897 | 2.87       | 0.0             | 1.442 | 0.0        | 1.78       | 0.0   | 0.0        | 1.848     | 0.0   | 0.0        | 2.138      | 0.0   |            |
| 9     | 15933       | 15934     | SN   | 1    | 0.0           | 22.11   | 6.073      | 0.0        | 228.081 | 7.573      | 0.0       | 159.317 | 2.984      | 0.0        | 14.46  | 4.201      | 0.0             | 1.433 | 0.0        | 1.787      | 0.0   | 0.0        | 1.851     | 0.0   | 0.0        | 2.143      | 0.0   |            |
| 10    | 15933       | 15934     | SN   | 1    | 0.0           | 29.632  | 13.483     | 0.0        | 27.393  | 13.003     | 0.0       | 148.431 | 11.153     | 0.0        | 19.661 | 13.91      | 0.0             | 1.45  | 0.0        | 1.785      | 0.0   | 0.0        | 1.845     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 11    | 15933       | 15934     | SN   | 1    | 0.0           | 22.11   | 6.058      | 0.0        | 228.081 | 7.589      | 0.0       | 159.317 | 2.96       | 0.0        | 50.926 | 4.318      | 0.0             | 1.433 | 0.0        | 1.787      | 0.0   | 0.0        | 1.851     | 0.0   | 0.0        | 2.143      | 0.0   |            |
| 12    | 15933       | 15934     | NS   | 1    | 0.0           | 204.256 | 10.146     | 0.0        | 30.25   | 14.132     | 0.0       | 230.384 | 9.572      | 0.0        | 38.737 | 12.124     | 0.0             | 1.417 | 0.0        | 1.782      | 0.0   | 0.0        | 1.844     | 0.0   | 0.0        | 2.138      | 0.0   |            |
| 13    | 15933       | 15934     | NS   | 1    | 0.0           | 204.256 | 10.146     | 0.0        | 30.25   | 14.132     | 0.0       | 230.384 | 9.572      | 0.0        | 38.737 | 12.124     | 0.0             | 1.417 | 0.0        | 1.782      | 0.0   | 0.0        | 1.844     | 0.0   | 0.0        | 2.138      | 0.0   |            |
| 14    | 15933       | 15934     | SN   | 1    | 0.0           | 22.11   | 6.058      | 0.0        | 228.081 | 7.589      | 0.0       | 159.317 | 2.96       | 0.0        | 50.926 | 4.318      | 0.0             | 1.433 | 0.0        | 1.787      | 0.0   | 0.0        | 1.851     | 0.0   | 0.0        | 2.143      | 0.0   |            |
| 15    | 15933       | 15934     | SN   | 1    | 0.0           | 29.632  | 13.461     | 0.0        | 27.393  | 13.17      | 0.0       | 148.431 | 11.058     | 0.0        | 71.607 | 14.208     | 0.0             | 1.45  | 0.0        | 1.785      | 0.0   | 0.0        | 1.845     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 16    | 15933       | 15934     | SN   | 1    | 0.0           | 29.632  | 13.461     | 0.0        | 27.393  | 13.17      | 0.0       | 148.431 | 11.058     | 0.0        | 71.607 | 14.208     | 0.0             | 1.45  | 0.0        | 1.785      | 0.0   | 0.0        | 1.845     | 0.0   | 0.0        | 2.142      | 0.0   |            |
| 17    | 15934       | 15935     | SN   | 1    | 0.0           | 29.676  | 13.469     | 0.667      | 153.778 | 13.066     | 0.0       | 137.699 | 11.102     | 0.0        | 20.417 | 14.028     | 0.0             | 1.451 | 0.0        | 0.002      | 1.786 | 0.0        | 0.0       | 1.851 | 0.0        | 0.0        | 2.141 | 0.0        |
| 18    | 15934       | 15935     | SN   | 1    | 0.0           | 22.093  | 6.047      | 0.0        | 190.383 | 7.59       | 0.0       | 152.071 | 2.976      | 0.0        | 62.104 | 4.339      | 0.0             | 1.435 | 0.0        | 1.788      | 0.0   | 0.0        | 1.851     | 0.0   | 0.0        | 2.144      | 0.0   |            |
| 19    | 15934       | 15935     | NS   | 1    | 0.0           | 254.167 | 10.156     | 0.0        | 30.068  | 14.107     | 0.0       | 355.787 | 9.45       | 0.0        | 41.969 | 12.044     | 0.0             | 1.417 | 0.0        | 1.781      | 0.0   | 0.0        | 1.836     | 0.0   | 0.0        | 2.138      | 0.0   |            |
| 20    | 15934       | 15935     | NS   | 1    | 0.0           | 254.167 | 10.177     | 0.0        | 30.062  | 14.077     | 0.0       | 355.787 | 9.45       | 0.0        | 41.964 | 12.051     | 0.0             | 1.417 | 0.0        | 1.781      | 0.0   | 0.0        | 1.836     | 0.0   | 0.0        | 2.138      | 0.0   |            |
| 21    | 15934       | 15935     | SN   | 1    | 0.0           | 29.676  | 13.469     | 0.667      | 153.778 | 13.066     | 0.0       | 137.699 | 11.102     | 0.0        | 20.417 | 14.028     | 0.0             | 1.451 | 0.0        | 0.002      | 1.786 | 0.0        | 0.0       | 1.851 | 0.0        | 0.0        | 2.141 | 0.0        |
| 22    | 15934       | 15935     | SN   | 1    | 0.0           | 29.676  | 13.457     | 0.667      | 153.778 | 13.215     | 0.0       | 137.699 | 11.036     | 0.0        | 57.218 | 14.268     | 0.0             | 1.451 | 0.0        | 0.002      | 1.786 | 0.0        | 0.0       | 1.851 | 0.0        | 0.0        | 2.141 | 0.0        |
| 23    | 15934       | 15935     | SN   | 1    | 0.0           | 22.093  | 6.059      | 0.0        | 190.383 | 7.573      | 0.0       | 152.071 | 2.995      | 0.0        | 16.275 | 4.239      | 0.0             | 1.435 | 0.0        | 1.788      | 0.0   | 0.0        | 1.851     | 0.0   | 0.0        | 2.144      | 0.0   |            |
| 24    | 15934       | 15935     | SN   | 1    | 0.0           | 22.093  | 6.059      | 0.0        | 190.383 | 7.571      | 0.0       | 152.071 | 2.996      | 0.0        | 14.742 | 4.235      | 0.0             | 1.435 | 0.0        | 1.788      | 0.0   | 0.0        | 1.851     | 0.0   | 0.0        | 2.144      | 0.0   |            |
| 25    | 15934       | 15935     | NS   | 1    | 0.0           | 279.991 | 5.971      | 0.0        | 24.569  | 6.563      | 0.0       | 348.154 | 2.106      | 0.0        | 51.847 | 2.844      | 0.0             | 1.441 | 0.0        | 1.779      | 0.0   | 0.0        | 1.848     | 0.0   | 0.0        | 2.136      | 0.0   |            |
| 26    | 15934       | 15935     | NS   | 1    | 0.0           | 229.441 | 5.969      | 0.0        | 24.569  | 6.567      | 0.0       | 348.154 | 2.106      | 0.0        | 43.072 | 2.843      | 0.0             | 1.442 | 0.0        | 1.779      | 0.0   | 0.0        | 1.849     | 0.0   | 0.0        | 2.136      | 0.0   |            |
| 27    | 15935       | 15936     | SN   | 1    | 0.0           | 29.632  | 13.467     | 0.667      | 27.393  | 13.195     | 0.0       | 167.369 | 11.065     | 0.0        | 59.391 | 14.233     | 0.0             | 1.449 | 0.0        | 0.002      | 1.786 | 0.0        | 0.0       | 1.85  | 0.0        | 0.0        | 2.141 | 0.0        |
| 28    | 15935       | 15936     | NS   | 1    | 0.0           | 25.921  | 10.156     | 0.0        | 30.084  | 14.036     | 0.0       | 355.23  | 9.45       | 0.0        | 42.923 | 12.009     | 0.0             | 1.417 | 0.0        | 1.782      | 0.0   | 0.0        | 1.837     | 0.0   | 0.0        | 2.138      | 0.0   |            |
| 29    | 15935       | 15936     | SN   | 1    | 0.0           | 22.104  | 6.049      | 0.0        | 24.382  | 7.588      | 0.0       | 155.92  | 3.015      | 0.0        | 74.133 | 4.399      | 0.0             | 1.433 | 0.0        | 1.788      | 0.0   | 0.0        | 1.85      | 0.0   | 0.0        | 2.144      | 0.0   |            |
| 30    | 15935       | 15936     | SN   | 1    | 0.0           | 22.104  | 6.07       | 0.0        | 24.233  | 7.555      | 0.0       | 155.92  | 3.049      | 0.0        | 14.201 | 4.264      | 0.0             | 1.433 | 0.0        | 1.788      | 0.0   | 0.0        | 1.85      | 0.0   | 0.0        | 2.144      | 0.0   |            |
| 31    | 15935       | 15936     | NS   | 1    | 0.0           | 193.844 | 5.958      | 0.0        | 24.547  | 6.551      | 0.0       | 151.723 | 2.094      | 0.0        | 48.554 | 2.829      | 0.0             | 1.44  | 0.0        | 1.779      | 0.0   | 0.0        | 1.847     | 0.0   | 0.0        | 2.135      | 0.0   |            |

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

|    |       |       |    |   |     |         |        |       |         |        |     |         |        |     |         |        |     |       |     |       |       |     |     |       |     |     |       |     |
|----|-------|-------|----|---|-----|---------|--------|-------|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-------|-------|-----|-----|-------|-----|-----|-------|-----|
| 32 | 15935 | 15936 | SN | 1 | 0.0 | 29.632  | 13.467 | 0.667 | 27.393  | 13.195 | 0.0 | 167.369 | 11.065 | 0.0 | 59.386  | 14.233 | 0.0 | 1.449 | 0.0 | 0.002 | 1.786 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.141 | 0.0 |
| 33 | 15935 | 15936 | SN | 1 | 0.0 | 29.632  | 13.491 | 0.667 | 27.393  | 12.978 | 0.0 | 167.369 | 11.167 | 0.0 | 18.359  | 13.899 | 0.0 | 1.449 | 0.0 | 0.002 | 1.786 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.141 | 0.0 |
| 34 | 15935 | 15936 | SN | 1 | 0.0 | 22.104  | 6.049  | 0.0   | 24.382  | 7.588  | 0.0 | 155.92  | 3.015  | 0.0 | 74.127  | 4.399  | 0.0 | 1.433 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.144 | 0.0 |
| 35 | 15936 | 15937 | NS | 1 | 0.0 | 193.94  | 5.967  | 0.0   | 24.558  | 6.561  | 0.0 | 295.469 | 2.114  | 0.0 | 46.337  | 2.846  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 36 | 15936 | 15937 | NS | 1 | 0.0 | 193.935 | 5.962  | 0.0   | 24.558  | 6.565  | 0.0 | 295.463 | 2.116  | 0.0 | 46.332  | 2.848  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 37 | 15936 | 15937 | SN | 1 | 0.0 | 29.367  | 13.536 | 0.0   | 27.349  | 13.189 | 0.0 | 176.552 | 11.01  | 0.0 | 65.921  | 14.345 | 0.0 | 1.451 | 0.0 | 0.0   | 1.79  | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.144 | 0.0 |
| 38 | 15936 | 15937 | SN | 1 | 0.0 | 22.126  | 6.056  | 0.0   | 128.227 | 7.574  | 0.0 | 177.925 | 3.0    | 0.0 | 276.963 | 4.377  | 0.0 | 1.434 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.145 | 0.0 |
| 39 | 15936 | 15937 | NS | 1 | 0.0 | 163.914 | 10.219 | 0.0   | 30.112  | 14.088 | 0.0 | 201.576 | 9.462  | 0.0 | 36.95   | 12.056 | 0.0 | 1.418 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.139 | 0.0 |
| 40 | 15936 | 15937 | NS | 1 | 0.0 | 96.482  | 10.23  | 0.0   | 30.117  | 14.078 | 0.0 | 222.428 | 9.477  | 0.0 | 36.945  | 12.042 | 0.0 | 1.418 | 0.0 | 0.0   | 1.78  | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 41 | 15937 | 15938 | SN | 1 | 0.0 | 22.121  | 6.066  | 0.0   | 26.053  | 7.569  | 0.0 | 163.691 | 2.99   | 0.0 | 128.894 | 4.363  | 0.0 | 1.434 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.144 | 0.0 |
| 42 | 15937 | 15938 | SN | 1 | 0.0 | 29.207  | 13.566 | 0.0   | 25.937  | 12.733 | 0.0 | 146.374 | 11.274 | 0.0 | 161.648 | 13.651 | 0.0 | 1.451 | 0.0 | 0.0   | 1.79  | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.145 | 0.0 |
| 43 | 15937 | 15938 | SN | 1 | 0.0 | 29.207  | 13.497 | 0.0   | 27.343  | 13.23  | 0.0 | 146.374 | 11.026 | 0.0 | 161.648 | 14.295 | 0.0 | 1.451 | 0.0 | 0.0   | 1.79  | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.145 | 0.0 |
| 44 | 15937 | 15938 | NS | 1 | 0.0 | 58.092  | 5.965  | 0.0   | 24.564  | 6.561  | 0.0 | 329.938 | 2.114  | 0.0 | 69.991  | 2.85   | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 45 | 15937 | 15938 | SN | 1 | 0.0 | 22.121  | 6.122  | 0.0   | 24.233  | 7.494  | 0.0 | 163.691 | 3.064  | 0.0 | 128.894 | 4.177  | 0.0 | 1.434 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.144 | 0.0 |
| 46 | 15937 | 15938 | NS | 1 | 0.0 | 257.939 | 10.156 | 0.0   | 30.156  | 14.03  | 0.0 | 331.493 | 9.558  | 0.0 | 37.844  | 12.089 | 0.0 | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.135 | 0.0 |
| 47 | 15938 | 15939 | NS | 1 | 0.0 | 46.605  | 10.177 | 0.0   | 30.173  | 14.123 | 0.0 | 351.948 | 9.537  | 0.0 | 38.997  | 12.124 | 0.0 | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.135 | 0.0 |
| 48 | 15938 | 15939 | NS | 1 | 0.0 | 252.758 | 5.976  | 0.0   | 24.547  | 6.562  | 0.0 | 354.645 | 2.114  | 0.0 | 44.148  | 2.864  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.137 | 0.0 |
| 49 | 15938 | 15939 | NS | 1 | 0.0 | 252.758 | 5.985  | 0.0   | 24.547  | 6.567  | 0.0 | 354.65  | 2.11   | 0.0 | 44.153  | 2.864  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.137 | 0.0 |
| 50 | 15938 | 15939 | SN | 1 | 0.0 | 29.715  | 13.43  | 0.0   | 179.466 | 13.17  | 0.0 | 152.335 | 11.053 | 0.0 | 247.488 | 14.323 | 0.0 | 1.451 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.143 | 0.0 |
| 51 | 15938 | 15939 | SN | 1 | 0.0 | 22.104  | 6.136  | 0.0   | 161.962 | 7.535  | 0.0 | 154.062 | 3.035  | 0.0 | 223.377 | 4.178  | 0.0 | 1.434 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.144 | 0.0 |
| 52 | 15938 | 15939 | NS | 1 | 0.0 | 46.605  | 10.187 | 0.0   | 30.173  | 14.133 | 0.0 | 351.954 | 9.551  | 0.0 | 39.002  | 12.11  | 0.0 | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.135 | 0.0 |
| 53 | 15938 | 15939 | SN | 1 | 0.0 | 22.104  | 6.097  | 0.0   | 161.962 | 7.585  | 0.0 | 154.062 | 2.985  | 0.0 | 223.377 | 4.353  | 0.0 | 1.434 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.144 | 0.0 |
| 54 | 15938 | 15939 | SN | 1 | 0.0 | 29.715  | 13.483 | 0.0   | 179.466 | 12.838 | 0.0 | 152.335 | 11.216 | 0.0 | 247.488 | 13.831 | 0.0 | 1.451 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.143 | 0.0 |
| 55 | 15939 | 15940 | NS | 1 | 0.0 | 25.496  | 5.965  | 0.0   | 24.553  | 6.562  | 0.0 | 314.22  | 2.122  | 0.0 | 40.232  | 2.875  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 56 | 15939 | 15940 | SN | 1 | 0.0 | 29.93   | 13.431 | 0.0   | 27.393  | 13.119 | 0.0 | 154.707 | 11.059 | 0.0 | 67.834  | 14.281 | 0.0 | 1.45  | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.14  | 0.0 |
| 57 | 15939 | 15940 | SN | 1 | 0.0 | 29.93   | 13.431 | 0.0   | 27.393  | 13.119 | 0.0 | 154.707 | 11.059 | 0.0 | 67.84   | 14.281 | 0.0 | 1.45  | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.14  | 0.0 |
| 58 | 15939 | 15940 | SN | 1 | 0.0 | 22.121  | 6.062  | 0.0   | 24.26   | 7.592  | 0.0 | 154.205 | 2.945  | 0.0 | 57.913  | 4.277  | 0.0 | 1.433 | 0.0 | 0.0   | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 59 | 15939 | 15940 | SN | 1 | 0.0 | 29.93   | 13.527 | 0.0   | 25.794  | 12.599 | 0.0 | 154.707 | 11.392 | 0.0 | 14.659  | 13.479 | 0.0 | 1.45  | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.14  | 0.0 |
| 60 | 15939 | 15940 | NS | 1 | 0.0 | 25.496  | 5.965  | 0.0   | 24.553  | 6.562  | 0.0 | 314.22  | 2.122  | 0.0 | 40.232  | 2.875  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 61 | 15939 | 15940 | SN | 1 | 0.0 | 22.121  | 6.147  | 0.0   | 24.26   | 7.499  | 0.0 | 154.205 | 3.054  | 0.0 | 14.234  | 4.08   | 0.0 | 1.433 | 0.0 | 0.0   | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 62 | 15939 | 15940 | NS | 1 | 0.0 | 27.266  | 10.167 | 0.0   | 30.233  | 14.143 | 0.0 | 206.06  | 9.572  | 0.0 | 40.364  | 12.138 | 0.0 | 1.419 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 63 | 15939 | 15940 | SN | 1 | 0.0 | 22.121  | 6.062  | 0.0   | 24.26   | 7.589  | 0.0 | 154.205 | 2.945  | 0.0 | 57.924  | 4.277  | 0.0 | 1.433 | 0.0 | 0.0   | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 64 | 15939 | 15940 | NS | 1 | 0.0 | 27.266  | 10.167 | 0.0   | 30.233  | 14.143 | 0.0 | 206.06  | 9.572  | 0.0 | 40.364  | 12.138 | 0.0 | 1.419 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 65 | 15940 | 15941 | NS | 1 | 0.0 | 26.963  | 10.176 | 0.0   | 30.057  | 14.017 | 0.0 | 355.825 | 9.564  | 0.0 | 41.616  | 12.164 | 0.0 | 1.416 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.14  | 0.0 |
| 66 | 15940 | 15941 | NS | 1 | 0.0 | 26.963  | 10.176 | 0.0   | 30.057  | 14.037 | 0.0 | 355.82  | 9.572  | 0.0 | 41.605  | 12.164 | 0.0 | 1.416 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.14  | 0.0 |
| 67 | 15940 | 15941 | NS | 1 | 0.0 | 25.501  | 5.966  | 0.0   | 24.569  | 6.571  | 0.0 | 352.406 | 2.11   | 0.0 | 21.762  | 2.885  | 0.0 | 1.441 | 0.0 | 0.0   | 1.78  | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 68 | 15940 | 15941 | SN | 1 | 0.0 | 22.115  | 6.06   | 0.0   | 24.26   | 7.604  | 0.0 | 133.43  | 2.878  | 0.0 | 70.741  | 4.279  | 0.0 | 1.434 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.143 | 0.0 |

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

|     |       |       |    |   |       |         |        |       |         |        |     |         |        |     |         |        |       |       |     |       |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-------|---------|--------|-------|---------|--------|-----|---------|--------|-----|---------|--------|-------|-------|-----|-------|-------|-----|-----|-------|-----|-----|-------|-----|
| 69  | 15940 | 15941 | NS | 1 | 0.0   | 25.496  | 5.973  | 0.0   | 24.569  | 6.571  | 0.0 | 352.406 | 2.11   | 0.0 | 21.762  | 2.889  | 0.0   | 1.441 | 0.0 | 0.0   | 1.78  | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 70  | 15940 | 15941 | SN | 1 | 0.0   | 29.632  | 13.416 | 0.667 | 27.387  | 13.174 | 0.0 | 151.343 | 11.016 | 0.0 | 207.507 | 14.254 | 0.0   | 1.449 | 0.0 | 0.002 | 1.786 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.143 | 0.0 |
| 71  | 15941 | 15942 | SN | 1 | 0.0   | 22.099  | 6.081  | 0.0   | 24.227  | 7.584  | 0.0 | 143.285 | 2.894  | 0.0 | 68.926  | 4.309  | 0.0   | 1.434 | 0.0 | 0.0   | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.142 | 0.0 |
| 72  | 15941 | 15942 | NS | 1 | 0.0   | 218.298 | 5.969  | 0.0   | 24.575  | 6.566  | 0.0 | 265.749 | 2.118  | 0.0 | 67.184  | 2.879  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.138 | 0.0 |
| 73  | 15941 | 15942 | SN | 1 | 0.722 | 29.516  | 13.528 | 0.0   | 27.371  | 13.235 | 0.0 | 144.499 | 11.04  | 0.0 | 64.719  | 14.347 | 0.107 | 1.449 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.143 | 0.0 |
| 74  | 15941 | 15942 | NS | 1 | 0.0   | 219.836 | 10.194 | 0.0   | 30.095  | 14.129 | 0.0 | 260.846 | 9.498  | 0.0 | 35.996  | 12.156 | 0.0   | 1.415 | 0.0 | 0.0   | 1.78  | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 75  | 15942 | 15943 | SN | 1 | 0.0   | 22.126  | 6.063  | 0.0   | 168.982 | 7.573  | 0.0 | 155.043 | 2.936  | 0.0 | 210.499 | 4.314  | 0.0   | 1.434 | 0.0 | 0.0   | 1.786 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.143 | 0.0 |
| 76  | 15942 | 15943 | NS | 1 | 0.0   | 269.256 | 10.123 | 0.0   | 30.112  | 14.149 | 0.0 | 132.01  | 9.506  | 0.0 | 36.713  | 12.163 | 0.0   | 1.418 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 77  | 15942 | 15943 | SN | 1 | 0.728 | 29.632  | 13.518 | 0.0   | 208.803 | 13.215 | 0.0 | 153.703 | 11.025 | 0.0 | 173.212 | 14.34  | 0.107 | 1.449 | 0.0 | 0.0   | 1.789 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.144 | 0.0 |
| 78  | 15942 | 15943 | NS | 1 | 0.0   | 219.083 | 5.964  | 0.0   | 24.569  | 6.566  | 0.0 | 348.104 | 2.109  | 0.0 | 64.989  | 2.881  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.137 | 0.0 |
| 79  | 15943 | 15944 | SN | 1 | 0.0   | 22.126  | 6.062  | 0.0   | 24.994  | 7.563  | 0.0 | 142.188 | 2.95   | 0.0 | 124.44  | 4.304  | 0.0   | 1.434 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.142 | 0.0 |
| 80  | 15943 | 15944 | SN | 1 | 0.794 | 29.511  | 13.467 | 0.0   | 27.343  | 13.188 | 0.0 | 145.238 | 11.024 | 0.0 | 170.4   | 14.315 | 0.107 | 1.449 | 0.0 | 0.0   | 1.789 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.143 | 0.0 |
| 81  | 15943 | 15944 | SN | 1 | 0.794 | 29.511  | 13.467 | 0.0   | 27.343  | 13.188 | 0.0 | 145.238 | 11.024 | 0.0 | 170.4   | 14.315 | 0.107 | 1.449 | 0.0 | 0.0   | 1.789 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.143 | 0.0 |
| 82  | 15943 | 15944 | NS | 1 | 0.0   | 235.411 | 5.969  | 0.0   | 24.569  | 6.561  | 0.0 | 352.169 | 2.108  | 0.0 | 44.958  | 2.884  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.136 | 0.0 |
| 83  | 15943 | 15944 | NS | 1 | 0.0   | 235.405 | 6.048  | 0.0   | 24.569  | 6.556  | 0.0 | 352.174 | 2.143  | 0.0 | 12.784  | 2.799  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.136 | 0.0 |
| 84  | 15943 | 15944 | NS | 1 | 0.0   | 217.895 | 10.137 | 0.0   | 29.836  | 13.929 | 0.0 | 349.863 | 9.734  | 0.0 | 17.455  | 11.918 | 0.0   | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.133 | 0.0 |
| 85  | 15943 | 15944 | NS | 1 | 0.0   | 235.405 | 5.973  | 0.0   | 24.569  | 6.554  | 0.0 | 352.174 | 2.106  | 0.0 | 57.345  | 2.888  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.136 | 0.0 |
| 86  | 15943 | 15944 | NS | 1 | 0.0   | 217.895 | 10.126 | 0.0   | 30.145  | 14.123 | 0.0 | 349.863 | 9.564  | 0.0 | 37.232  | 12.162 | 0.0   | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.133 | 0.0 |
| 87  | 15943 | 15944 | NS | 1 | 0.0   | 217.901 | 10.126 | 0.0   | 30.145  | 14.123 | 0.0 | 349.863 | 9.55   | 0.0 | 37.232  | 12.176 | 0.0   | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.133 | 0.0 |
| 88  | 15943 | 15944 | SN | 1 | 0.0   | 22.126  | 6.062  | 0.0   | 24.994  | 7.563  | 0.0 | 142.188 | 2.95   | 0.0 | 124.44  | 4.304  | 0.0   | 1.434 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.142 | 0.0 |
| 89  | 15944 | 15945 | NS | 1 | 0.0   | 91.728  | 10.177 | 0.0   | 30.178  | 14.081 | 0.0 | 267.751 | 9.564  | 0.0 | 34.783  | 12.254 | 0.0   | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.134 | 0.0 |
| 90  | 15944 | 15945 | NS | 1 | 0.0   | 91.728  | 10.177 | 0.0   | 30.178  | 14.081 | 0.0 | 267.751 | 9.564  | 0.0 | 34.783  | 12.254 | 0.0   | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.134 | 0.0 |
| 91  | 15944 | 15945 | NS | 1 | 0.0   | 154.183 | 5.976  | 0.0   | 24.564  | 6.597  | 0.0 | 347.106 | 2.117  | 0.0 | 45.846  | 2.886  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.137 | 0.0 |
| 92  | 15944 | 15945 | NS | 1 | 0.0   | 154.183 | 5.976  | 0.0   | 24.564  | 6.597  | 0.0 | 347.106 | 2.115  | 0.0 | 45.846  | 2.886  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.137 | 0.0 |
| 93  | 15944 | 15945 | NS | 1 | 0.0   | 91.728  | 10.251 | 0.0   | 29.831  | 13.627 | 0.0 | 267.751 | 9.999  | 0.0 | 13.291  | 11.764 | 0.0   | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.134 | 0.0 |
| 94  | 15944 | 15945 | NS | 1 | 0.0   | 154.183 | 6.138  | 0.0   | 24.564  | 6.625  | 0.0 | 347.106 | 2.223  | 0.0 | 12.784  | 2.83   | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.137 | 0.0 |
| 95  | 15944 | 15945 | SN | 1 | 0.0   | 22.121  | 6.073  | 0.0   | 229.675 | 7.574  | 0.0 | 151.469 | 2.936  | 0.0 | 193.364 | 4.332  | 0.0   | 1.434 | 0.0 | 0.0   | 1.786 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.141 | 0.0 |
| 96  | 15944 | 15945 | SN | 1 | 0.0   | 29.715  | 13.433 | 0.0   | 229.703 | 13.17  | 0.0 | 151.392 | 11.025 | 0.0 | 85.706  | 14.295 | 0.0   | 1.451 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.14  | 0.0 |
| 97  | 15945 | 15946 | NS | 1 | 0.0   | 25.501  | 5.983  | 0.0   | 24.575  | 6.569  | 0.0 | 141.347 | 2.139  | 0.0 | 53.766  | 2.915  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 98  | 15945 | 15946 | NS | 1 | 0.0   | 25.501  | 6.276  | 0.0   | 24.575  | 6.717  | 0.0 | 141.347 | 2.359  | 0.0 | 12.8    | 2.978  | 0.0   | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 99  | 15945 | 15946 | SN | 1 | 0.0   | 29.616  | 13.453 | 0.0   | 27.387  | 13.18  | 0.0 | 153.102 | 10.99  | 0.0 | 77.742  | 14.281 | 0.0   | 1.45  | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.139 | 0.0 |
| 100 | 15945 | 15946 | NS | 1 | 0.0   | 26.455  | 10.123 | 0.0   | 30.002  | 14.096 | 0.0 | 355.048 | 9.562  | 0.0 | 35.969  | 12.242 | 0.0   | 1.417 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.835 | 0.0 | 0.0 | 2.137 | 0.0 |
| 101 | 15945 | 15946 | SN | 1 | 0.0   | 22.104  | 6.073  | 0.0   | 25.303  | 7.592  | 0.0 | 152.203 | 2.924  | 0.0 | 99.598  | 4.315  | 0.0   | 1.433 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.142 | 0.0 |
| 102 | 15945 | 15946 | NS | 1 | 0.0   | 26.455  | 10.309 | 0.0   | 29.836  | 13.434 | 0.0 | 355.048 | 10.464 | 0.0 | 13.159  | 11.643 | 0.0   | 1.417 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.835 | 0.0 | 0.0 | 2.137 | 0.0 |
| 103 | 15946 | 15947 | NS | 1 | 0.0   | 47.892  | 10.267 | 0.0   | 128.527 | 14.207 | 0.0 | 355.268 | 9.628  | 0.0 | 159.924 | 12.306 | 0.0   | 1.417 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.836 | 0.0 | 0.0 | 2.138 | 0.0 |
| 104 | 15946 | 15947 | SN | 1 | 0.0   | 22.104  | 6.054  | 0.0   | 24.255  | 7.589  | 0.0 | 143.318 | 2.893  | 0.0 | 173.527 | 4.263  | 0.0   | 1.434 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.142 | 0.0 |
| 105 | 15946 | 15947 | NS | 1 | 0.0   | 48.019  | 5.998  | 0.0   | 128.715 | 6.659  | 0.0 | 119.006 | 2.156  | 0.0 | 159.703 | 2.977  | 0.0   | 1.44  | 0.0 | 0.0   | 1.78  | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |

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

|     |       |       |    |   |       |         |        |       |         |        |     |         |        |     |         |        |       |       |       |       |       |     |       |       |     |       |       |     |
|-----|-------|-------|----|---|-------|---------|--------|-------|---------|--------|-----|---------|--------|-----|---------|--------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| 106 | 15946 | 15947 | SN | 1 | 0.0   | 22.104  | 6.157  | 0.0   | 24.255  | 7.494  | 0.0 | 143.318 | 3.024  | 0.0 | 173.527 | 4.091  | 0.0   | 1.434 | 0.0   | 0.0   | 1.785 | 0.0 | 0.0   | 1.848 | 0.0 | 0.0   | 2.142 | 0.0 |
| 107 | 15946 | 15947 | NS | 1 | 0.0   | 48.008  | 6.003  | 0.0   | 128.659 | 6.657  | 0.0 | 119.006 | 2.151  | 0.0 | 159.61  | 2.976  | 0.0   | 1.44  | 0.0   | 0.0   | 1.78  | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.137 | 0.0 |
| 108 | 15946 | 15947 | SN | 1 | 0.0   | 29.616  | 13.575 | 0.667 | 25.656  | 12.542 | 0.0 | 147.648 | 11.488 | 0.0 | 188.384 | 13.385 | 0.0   | 1.45  | 0.002 | 1.784 | 0.0   | 0.0 | 1.844 | 0.0   | 0.0 | 2.141 | 0.0   |     |
| 109 | 15946 | 15947 | NS | 1 | 1.048 | 43.367  | 10.579 | 0.0   | 29.831  | 13.405 | 0.0 | 355.268 | 11.097 | 0.0 | 13.093  | 11.793 | 0.0   | 1.417 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0   | 1.836 | 0.0 | 0.0   | 2.138 | 0.0 |
| 110 | 15946 | 15947 | NS | 1 | 0.0   | 47.903  | 10.267 | 0.0   | 128.577 | 14.207 | 0.0 | 355.268 | 9.599  | 0.0 | 160.018 | 12.256 | 0.0   | 1.417 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0   | 1.836 | 0.0 | 0.0   | 2.138 | 0.0 |
| 111 | 15946 | 15947 | SN | 1 | 0.0   | 22.104  | 6.054  | 0.0   | 24.255  | 7.589  | 0.0 | 143.318 | 2.893  | 0.0 | 173.527 | 4.263  | 0.0   | 1.434 | 0.0   | 0.0   | 1.785 | 0.0 | 0.0   | 1.848 | 0.0 | 0.0   | 2.142 | 0.0 |
| 112 | 15946 | 15947 | SN | 1 | 0.0   | 22.104  | 6.051  | 0.0   | 24.255  | 7.593  | 0.0 | 143.318 | 2.891  | 0.0 | 173.527 | 4.263  | 0.0   | 1.434 | 0.0   | 0.0   | 1.785 | 0.0 | 0.0   | 1.848 | 0.0 | 0.0   | 2.142 | 0.0 |
| 113 | 15946 | 15947 | SN | 1 | 0.0   | 29.616  | 13.457 | 0.667 | 27.387  | 13.103 | 0.0 | 147.648 | 11.086 | 0.0 | 188.384 | 14.233 | 0.0   | 1.45  | 0.002 | 1.784 | 0.0   | 0.0 | 1.844 | 0.0   | 0.0 | 2.141 | 0.0   |     |
| 114 | 15946 | 15947 | SN | 1 | 0.0   | 29.616  | 13.457 | 0.667 | 27.387  | 13.103 | 0.0 | 147.648 | 11.086 | 0.0 | 188.384 | 14.233 | 0.0   | 1.45  | 0.002 | 1.784 | 0.0   | 0.0 | 1.844 | 0.0   | 0.0 | 2.141 | 0.0   |     |
| 115 | 15946 | 15947 | SN | 1 | 0.0   | 29.616  | 13.457 | 0.667 | 27.387  | 13.103 | 0.0 | 147.648 | 11.086 | 0.0 | 188.384 | 14.24  | 0.0   | 1.45  | 0.002 | 1.784 | 0.0   | 0.0 | 1.844 | 0.0   | 0.0 | 2.141 | 0.0   |     |
| 116 | 15946 | 15947 | NS | 1 | 0.0   | 45.617  | 6.453  | 0.0   | 24.569  | 6.929  | 0.0 | 119.006 | 2.495  | 0.0 | 12.795  | 3.155  | 0.0   | 1.44  | 0.0   | 0.0   | 1.78  | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.137 | 0.0 |
| 117 | 15947 | 15948 | SN | 1 | 0.794 | 29.627  | 13.558 | 0.0   | 241.797 | 13.23  | 0.0 | 154.023 | 10.989 | 0.0 | 71.811  | 14.363 | 0.107 | 1.45  | 0.0   | 0.0   | 1.789 | 0.0 | 0.0   | 1.849 | 0.0 | 0.0   | 2.144 | 0.0 |
| 118 | 15947 | 15948 | SN | 1 | 0.0   | 22.104  | 6.063  | 0.0   | 239.834 | 7.612  | 0.0 | 155.297 | 2.927  | 0.0 | 70.995  | 4.282  | 0.0   | 1.434 | 0.0   | 0.0   | 1.787 | 0.0 | 0.0   | 1.851 | 0.0 | 0.0   | 2.143 | 0.0 |
| 119 | 15947 | 15948 | NS | 1 | 0.0   | 255.149 | 5.963  | 0.0   | 24.564  | 6.619  | 0.0 | 349.246 | 2.117  | 0.0 | 33.377  | 2.883  | 0.0   | 1.442 | 0.0   | 0.0   | 1.78  | 0.0 | 0.0   | 1.848 | 0.0 | 0.0   | 2.137 | 0.0 |
| 120 | 15947 | 15948 | SN | 1 | 0.0   | 22.104  | 6.089  | 0.0   | 239.834 | 7.569  | 0.0 | 155.297 | 2.965  | 0.0 | 41.172  | 4.136  | 0.0   | 1.434 | 0.0   | 0.0   | 1.787 | 0.0 | 0.0   | 1.851 | 0.0 | 0.0   | 2.143 | 0.0 |
| 121 | 15947 | 15948 | SN | 1 | 0.0   | 29.627  | 13.596 | 0.0   | 241.797 | 12.926 | 0.0 | 154.023 | 11.122 | 0.0 | 18.285  | 13.915 | 0.0   | 1.45  | 0.0   | 0.0   | 1.789 | 0.0 | 0.0   | 1.849 | 0.0 | 0.0   | 2.144 | 0.0 |
| 122 | 15947 | 15948 | NS | 1 | 0.601 | 242.79  | 10.179 | 0.0   | 30.095  | 14.2   | 0.0 | 268.454 | 9.502  | 0.0 | 36.151  | 12.184 | 0.105 | 1.417 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0   | 1.844 | 0.0 | 0.0   | 2.139 | 0.0 |
| 123 | 15947 | 15948 | SN | 1 | 0.794 | 29.627  | 13.558 | 0.0   | 241.797 | 13.23  | 0.0 | 154.023 | 10.989 | 0.0 | 71.811  | 14.363 | 0.107 | 1.45  | 0.0   | 0.0   | 1.789 | 0.0 | 0.0   | 1.849 | 0.0 | 0.0   | 2.144 | 0.0 |
| 124 | 15947 | 15948 | SN | 1 | 0.0   | 22.104  | 6.063  | 0.0   | 239.834 | 7.612  | 0.0 | 155.297 | 2.927  | 0.0 | 70.995  | 4.282  | 0.0   | 1.434 | 0.0   | 0.0   | 1.787 | 0.0 | 0.0   | 1.851 | 0.0 | 0.0   | 2.143 | 0.0 |
| 125 | 15948 | 15949 | NS | 1 | 0.0   | 270.64  | 10.128 | 0.0   | 30.15   | 14.129 | 0.0 | 352.935 | 9.491  | 0.0 | 53.457  | 12.156 | 0.0   | 1.418 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0   | 1.845 | 0.0 | 0.0   | 2.139 | 0.0 |
| 126 | 15948 | 15949 | NS | 1 | 0.0   | 270.64  | 10.148 | 0.0   | 30.156  | 14.119 | 0.0 | 352.935 | 9.491  | 0.0 | 53.462  | 12.134 | 0.0   | 1.418 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0   | 1.842 | 0.0 | 0.0   | 2.139 | 0.0 |
| 127 | 15948 | 15949 | SN | 1 | 0.0   | 29.676  | 13.555 | 0.0   | 174.327 | 13.082 | 0.0 | 146.804 | 11.119 | 0.0 | 226.603 | 14.132 | 0.0   | 1.45  | 0.0   | 0.0   | 1.789 | 0.0 | 0.0   | 1.848 | 0.0 | 0.0   | 2.145 | 0.0 |
| 128 | 15948 | 15949 | SN | 1 | 0.0   | 29.676  | 13.553 | 0.0   | 174.327 | 13.121 | 0.0 | 146.804 | 11.119 | 0.0 | 226.603 | 14.189 | 0.0   | 1.45  | 0.0   | 0.0   | 1.789 | 0.0 | 0.0   | 1.848 | 0.0 | 0.0   | 2.145 | 0.0 |
| 129 | 15948 | 15949 | SN | 1 | 0.0   | 29.676  | 13.549 | 0.0   | 174.327 | 13.251 | 0.0 | 146.804 | 11.051 | 0.0 | 226.603 | 14.378 | 0.0   | 1.45  | 0.0   | 0.0   | 1.789 | 0.0 | 0.0   | 1.848 | 0.0 | 0.0   | 2.145 | 0.0 |
| 130 | 15948 | 15949 | NS | 1 | 0.0   | 155.451 | 5.986  | 0.0   | 24.553  | 6.572  | 0.0 | 352.935 | 2.105  | 0.0 | 51.896  | 2.867  | 0.0   | 1.441 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.137 | 0.0 |
| 131 | 15948 | 15949 | NS | 1 | 0.0   | 155.451 | 5.973  | 0.0   | 24.553  | 6.577  | 0.0 | 114.919 | 2.105  | 0.0 | 51.907  | 2.869  | 0.0   | 1.441 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.137 | 0.0 |
| 132 | 15948 | 15949 | SN | 1 | 0.0   | 22.11   | 6.081  | 0.0   | 24.233  | 7.567  | 0.0 | 149.484 | 2.978  | 0.0 | 135.046 | 4.252  | 0.0   | 1.434 | 0.0   | 0.0   | 1.787 | 0.0 | 0.0   | 1.852 | 0.0 | 0.0   | 2.143 | 0.0 |
| 133 | 15948 | 15949 | SN | 1 | 0.0   | 22.11   | 6.081  | 0.0   | 24.233  | 7.567  | 0.0 | 149.484 | 2.978  | 0.0 | 135.046 | 4.252  | 0.0   | 1.434 | 0.0   | 0.0   | 1.787 | 0.0 | 0.0   | 1.852 | 0.0 | 0.0   | 2.143 | 0.0 |
| 134 | 15948 | 15949 | SN | 1 | 0.0   | 22.11   | 6.064  | 0.0   | 24.233  | 7.582  | 0.0 | 149.484 | 2.956  | 0.0 | 135.046 | 4.337  | 0.0   | 1.434 | 0.0   | 0.0   | 1.787 | 0.0 | 0.0   | 1.852 | 0.0 | 0.0   | 2.143 | 0.0 |
| 135 | 15949 | 15950 | NS | 1 | 0.0   | 44.47   | 5.958  | 0.0   | 24.547  | 6.565  | 0.0 | 355.941 | 2.106  | 0.0 | 46.348  | 2.85   | 0.0   | 1.444 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.137 | 0.0 |
| 136 | 15949 | 15950 | NS | 1 | 0.0   | 237.749 | 10.187 | 0.0   | 30.184  | 14.05  | 0.0 | 260.802 | 9.586  | 0.0 | 37.805  | 12.119 | 0.0   | 1.417 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0   | 1.845 | 0.0 | 0.0   | 2.135 | 0.0 |
| 137 | 15949 | 15950 | SN | 1 | 0.0   | 29.555  | 13.485 | 0.0   | 27.387  | 13.18  | 0.0 | 161.645 | 11.09  | 0.0 | 70.333  | 14.281 | 0.0   | 1.453 | 0.0   | 0.0   | 1.79  | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.143 | 0.0 |
| 138 | 15949 | 15950 | NS | 1 | 0.0   | 44.47   | 5.958  | 0.0   | 24.547  | 6.565  | 0.0 | 355.941 | 2.106  | 0.0 | 46.348  | 2.85   | 0.0   | 1.444 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.137 | 0.0 |
| 139 | 15949 | 15950 | SN | 1 | 0.0   | 22.11   | 6.069  | 0.0   | 24.249  | 7.597  | 0.0 | 163.602 | 3.005  | 0.0 | 48.344  | 4.363  | 0.0   | 1.437 | 0.0   | 0.0   | 1.788 | 0.0 | 0.0   | 1.851 | 0.0 | 0.0   | 2.145 | 0.0 |
| 140 | 15949 | 15950 | NS | 1 | 0.0   | 237.749 | 10.187 | 0.0   | 30.184  | 14.05  | 0.0 | 260.802 | 9.586  | 0.0 | 37.805  | 12.119 | 0.0   | 1.417 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0   | 1.845 | 0.0 | 0.0   | 2.135 | 0.0 |
| 141 | 15949 | 15950 | SN | 1 | 0.0   | 29.555  | 13.513 | 0.0   | 27.387  | 12.982 | 0.0 | 161.645 | 11.182 | 0.0 | 19.302  | 13.99  | 0.0   | 1.453 | 0.0   | 0.0   | 1.79  | 0.0 | 0.0   | 1.847 | 0.0 | 0.0   | 2.143 | 0.0 |
| 142 | 15949 | 15950 | SN | 1 | 0.0   | 22.11   | 6.069  | 0.0   | 24.249  | 7.597  | 0.0 | 163.602 | 3.005  | 0.0 | 48.344  | 4.363  | 0.0   | 1.437 | 0.0   | 0.0   | 1.788 | 0.0 | 0.0   | 1.851 | 0.0 | 0.0   | 2.145 | 0.0 |

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

|     |       |       |    |   |     |         |        |      |         |        |     |         |        |     |         |        |     |       |     |       |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|------|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-------|-------|-----|-----|-------|-----|-----|-------|-----|
| 143 | 15949 | 15950 | SN | 1 | 0.0 | 22.11   | 6.088  | 0.0  | 24.249  | 7.571  | 0.0 | 163.602 | 3.032  | 0.0 | 14.234  | 4.252  | 0.0 | 1.437 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.851 | 0.0 | 0.0 | 2.145 | 0.0 |
| 144 | 15949 | 15950 | SN | 1 | 0.0 | 29.555  | 13.485 | 0.0  | 27.387  | 13.18  | 0.0 | 161.645 | 11.09  | 0.0 | 70.333  | 14.281 | 0.0 | 1.453 | 0.0 | 0.0   | 1.79  | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.143 | 0.0 |
| 145 | 15950 | 15951 | SN | 1 | 0.0 | 22.126  | 6.093  | 0.0  | 190.317 | 7.606  | 0.0 | 183.352 | 2.989  | 0.0 | 234.164 | 4.386  | 0.0 | 1.434 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.145 | 0.0 |
| 146 | 15950 | 15951 | NS | 1 | 0.0 | 25.507  | 5.94   | 0.0  | 24.547  | 6.563  | 0.0 | 355.864 | 2.105  | 0.0 | 45.113  | 2.843  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 147 | 15950 | 15951 | SN | 1 | 0.0 | 29.831  | 13.579 | 0.0  | 27.387  | 12.886 | 0.0 | 178.482 | 11.238 | 0.0 | 211.553 | 13.875 | 0.0 | 1.45  | 0.0 | 0.0   | 1.79  | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.144 | 0.0 |
| 148 | 15950 | 15951 | NS | 1 | 0.0 | 26.472  | 10.146 | 0.0  | 30.189  | 14.082 | 0.0 | 138.567 | 9.586  | 0.0 | 38.704  | 12.126 | 0.0 | 1.417 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.135 | 0.0 |
| 149 | 15950 | 15951 | SN | 1 | 0.0 | 29.831  | 13.542 | 0.0  | 27.387  | 13.18  | 0.0 | 178.482 | 11.109 | 0.0 | 211.553 | 14.295 | 0.0 | 1.45  | 0.0 | 0.0   | 1.79  | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.144 | 0.0 |
| 150 | 15950 | 15951 | SN | 1 | 0.0 | 29.825  | 13.552 | 0.0  | 83.34   | 13.201 | 0.0 | 178.438 | 11.095 | 0.0 | 211.558 | 14.302 | 0.0 | 1.45  | 0.0 | 0.0   | 1.79  | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.144 | 0.0 |
| 151 | 15950 | 15951 | SN | 1 | 0.0 | 22.126  | 6.122  | 0.0  | 190.317 | 7.563  | 0.0 | 183.352 | 3.028  | 0.0 | 234.164 | 4.236  | 0.0 | 1.434 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.145 | 0.0 |
| 152 | 15950 | 15951 | NS | 1 | 0.0 | 26.472  | 10.206 | 0.64 | 29.957  | 14.042 | 0.0 | 249.722 | 9.619  | 0.0 | 39.008  | 12.095 | 0.0 | 1.417 | 0.0 | 0.002 | 1.781 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.136 | 0.0 |
| 153 | 15950 | 15951 | SN | 1 | 0.0 | 22.132  | 6.084  | 0.0  | 190.317 | 7.612  | 0.0 | 183.269 | 2.995  | 0.0 | 278.494 | 4.378  | 0.0 | 1.434 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.145 | 0.0 |
| 154 | 15950 | 15951 | NS | 1 | 0.0 | 25.529  | 5.954  | 0.0  | 24.553  | 6.572  | 0.0 | 351.485 | 2.118  | 0.0 | 56.562  | 2.85   | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 155 | 15951 | 15952 | SN | 1 | 0.0 | 29.56   | 13.487 | 0.0  | 27.393  | 13.154 | 0.0 | 197.007 | 11.071 | 0.0 | 57.257  | 14.319 | 0.0 | 1.451 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 156 | 15951 | 15952 | SN | 1 | 0.0 | 22.126  | 6.103  | 0.0  | 24.227  | 7.609  | 0.0 | 193.819 | 2.978  | 0.0 | 60.924  | 4.373  | 0.0 | 1.435 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.144 | 0.0 |
| 157 | 15951 | 15952 | SN | 1 | 0.0 | 22.126  | 6.103  | 0.0  | 24.227  | 7.609  | 0.0 | 193.819 | 2.979  | 0.0 | 60.924  | 4.373  | 0.0 | 1.435 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.144 | 0.0 |
| 158 | 15951 | 15952 | NS | 1 | 0.0 | 25.92   | 10.199 | 0.0  | 29.985  | 14.016 | 0.0 | 332.877 | 9.558  | 0.0 | 40.083  | 12.042 | 0.0 | 1.416 | 0.0 | 0.0   | 1.78  | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.136 | 0.0 |
| 159 | 15951 | 15952 | SN | 1 | 0.0 | 29.56   | 13.54  | 0.0  | 27.382  | 12.712 | 0.0 | 197.007 | 11.273 | 0.0 | 15.398  | 13.73  | 0.0 | 1.451 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 160 | 15951 | 15952 | NS | 1 | 0.0 | 25.523  | 5.981  | 0.0  | 24.553  | 6.569  | 0.0 | 327.826 | 2.11   | 0.0 | 37.408  | 2.841  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 161 | 15951 | 15952 | NS | 1 | 0.0 | 25.523  | 5.972  | 0.0  | 24.553  | 6.566  | 0.0 | 327.765 | 2.113  | 0.0 | 37.386  | 2.841  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 162 | 15951 | 15952 | NS | 1 | 0.0 | 25.921  | 10.219 | 0.0  | 29.985  | 14.026 | 0.0 | 332.943 | 9.544  | 0.0 | 40.1    | 12.056 | 0.0 | 1.419 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.136 | 0.0 |
| 163 | 15951 | 15952 | SN | 1 | 0.0 | 29.56   | 13.487 | 0.0  | 27.393  | 13.154 | 0.0 | 197.007 | 11.071 | 0.0 | 57.257  | 14.312 | 0.0 | 1.451 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 164 | 15951 | 15952 | SN | 1 | 0.0 | 22.126  | 6.152  | 0.0  | 24.227  | 7.555  | 0.0 | 193.819 | 3.041  | 0.0 | 14.234  | 4.193  | 0.0 | 1.435 | 0.0 | 0.0   | 1.788 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.144 | 0.0 |
| 165 | 15952 | 15953 | SN | 1 | 0.0 | 29.588  | 13.507 | 0.0  | 27.387  | 12.986 | 0.0 | 148.392 | 11.176 | 0.0 | 87.747  | 14.03  | 0.0 | 1.451 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.143 | 0.0 |
| 166 | 15952 | 15953 | SN | 1 | 0.0 | 29.588  | 13.477 | 0.0  | 27.387  | 13.174 | 0.0 | 148.392 | 11.078 | 0.0 | 87.747  | 14.319 | 0.0 | 1.451 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.143 | 0.0 |
| 167 | 15952 | 15953 | SN | 1 | 0.0 | 29.582  | 13.467 | 0.0  | 27.387  | 13.164 | 0.0 | 145.227 | 11.085 | 0.0 | 87.741  | 14.34  | 0.0 | 1.452 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.143 | 0.0 |
| 168 | 15952 | 15953 | NS | 1 | 0.0 | 219.792 | 10.184 | 0.0  | 30.018  | 14.12  | 0.0 | 355.974 | 9.464  | 0.0 | 35.401  | 12.136 | 0.0 | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 169 | 15952 | 15953 | NS | 1 | 0.0 | 81.366  | 10.219 | 0.0  | 30.018  | 14.077 | 0.0 | 355.974 | 9.572  | 0.0 | 41.241  | 12.134 | 0.0 | 1.416 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.136 | 0.0 |
| 170 | 15952 | 15953 | NS | 1 | 0.0 | 201.706 | 5.965  | 0.0  | 24.569  | 6.578  | 0.0 | 338.668 | 2.115  | 0.0 | 23.483  | 2.867  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 171 | 15952 | 15953 | SN | 1 | 0.0 | 22.121  | 6.116  | 0.0  | 24.233  | 7.609  | 0.0 | 193.395 | 2.956  | 0.0 | 73.493  | 4.366  | 0.0 | 1.436 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.144 | 0.0 |
| 172 | 15952 | 15953 | SN | 1 | 0.0 | 22.121  | 6.133  | 0.0  | 24.227  | 7.589  | 0.0 | 193.472 | 2.989  | 0.0 | 14.201  | 4.237  | 0.0 | 1.435 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.144 | 0.0 |
| 173 | 15952 | 15953 | NS | 1 | 0.0 | 205.853 | 5.958  | 0.0  | 24.569  | 6.575  | 0.0 | 323.347 | 2.113  | 0.0 | 69.241  | 2.876  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 174 | 15952 | 15953 | SN | 1 | 0.0 | 22.121  | 6.114  | 0.0  | 24.227  | 7.616  | 0.0 | 193.472 | 2.962  | 0.0 | 73.449  | 4.355  | 0.0 | 1.435 | 0.0 | 0.0   | 1.787 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.144 | 0.0 |
| 175 | 15953 | 15954 | SN | 1 | 0.0 | 22.121  | 6.102  | 0.0  | 24.272  | 7.58   | 0.0 | 161.976 | 2.968  | 0.0 | 66.516  | 4.291  | 0.0 | 1.434 | 0.0 | 0.0   | 1.786 | 0.0 | 0.0 | 1.851 | 0.0 | 0.0 | 2.143 | 0.0 |
| 176 | 15953 | 15954 | NS | 1 | 0.0 | 41.906  | 10.179 | 0.0  | 30.068  | 14.191 | 0.0 | 136.979 | 9.482  | 0.0 | 36.427  | 12.179 | 0.0 | 1.418 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 177 | 15953 | 15954 | NS | 1 | 0.0 | 263.863 | 10.158 | 0.0  | 30.073  | 14.171 | 0.0 | 136.847 | 9.482  | 0.0 | 36.438  | 12.193 | 0.0 | 1.419 | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 178 | 15953 | 15954 | SN | 1 | 0.0 | 29.472  | 13.46  | 0.0  | 27.382  | 13.169 | 0.0 | 146.71  | 11.088 | 0.0 | 72.566  | 14.377 | 0.0 | 1.451 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.14  | 0.0 |
| 179 | 15953 | 15954 | SN | 1 | 0.0 | 29.472  | 13.46  | 0.0  | 27.382  | 13.169 | 0.0 | 146.71  | 11.088 | 0.0 | 72.566  | 14.377 | 0.0 | 1.451 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.14  | 0.0 |

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

|     |       |       |    |   |     |         |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 180 | 15953 | 15954 | SN | 1 | 0.0 | 29.472  | 13.528 | 0.0 | 25.904  | 12.693 | 0.0 | 146.71  | 11.35  | 0.0 | 69.619  | 13.715 | 0.0 | 1.451 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.14  | 0.0 |
| 181 | 15953 | 15954 | SN | 1 | 0.0 | 22.121  | 6.163  | 0.0 | 24.272  | 7.508  | 0.0 | 161.976 | 3.045  | 0.0 | 14.234  | 4.106  | 0.0 | 1.434 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.851 | 0.0 | 0.0 | 2.143 | 0.0 |
| 182 | 15953 | 15954 | SN | 1 | 0.0 | 22.121  | 6.102  | 0.0 | 24.272  | 7.58   | 0.0 | 161.976 | 2.968  | 0.0 | 66.516  | 4.291  | 0.0 | 1.434 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.851 | 0.0 | 0.0 | 2.143 | 0.0 |
| 183 | 15953 | 15954 | NS | 1 | 0.0 | 191.798 | 5.963  | 0.0 | 24.564  | 6.588  | 0.0 | 312.571 | 2.121  | 0.0 | 40.403  | 2.878  | 0.0 | 1.443 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 184 | 15953 | 15954 | NS | 1 | 0.0 | 263.614 | 5.968  | 0.0 | 24.564  | 6.604  | 0.0 | 312.659 | 2.117  | 0.0 | 40.43   | 2.874  | 0.0 | 1.443 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 185 | 15954 | 15955 | SN | 1 | 0.0 | 29.709  | 13.63  | 0.0 | 156.976 | 12.48  | 0.0 | 143.726 | 11.478 | 0.0 | 14.659  | 13.347 | 0.0 | 1.451 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 186 | 15954 | 15955 | SN | 1 | 0.0 | 22.137  | 6.09   | 0.0 | 161.962 | 7.579  | 0.0 | 152.672 | 2.913  | 0.0 | 70.178  | 4.257  | 0.0 | 1.435 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 187 | 15954 | 15955 | NS | 1 | 0.0 | 27.117  | 10.118 | 0.0 | 30.128  | 14.161 | 0.0 | 353.15  | 9.569  | 0.0 | 59.871  | 12.215 | 0.0 | 1.417 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.138 | 0.0 |
| 188 | 15954 | 15955 | SN | 1 | 0.0 | 29.709  | 13.49  | 0.0 | 156.976 | 13.23  | 0.0 | 143.726 | 11.024 | 0.0 | 68.579  | 14.363 | 0.0 | 1.451 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 189 | 15954 | 15955 | NS | 1 | 0.0 | 27.117  | 10.136 | 0.0 | 30.128  | 14.154 | 0.0 | 350.095 | 9.592  | 0.0 | 34.165  | 12.19  | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.135 | 0.0 |
| 190 | 15954 | 15955 | SN | 1 | 0.0 | 29.709  | 13.48  | 0.0 | 238.168 | 13.23  | 0.0 | 143.633 | 11.046 | 0.0 | 68.579  | 14.363 | 0.0 | 1.451 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 191 | 15954 | 15955 | SN | 1 | 0.0 | 22.137  | 6.221  | 0.0 | 161.962 | 7.488  | 0.0 | 152.672 | 3.088  | 0.0 | 14.201  | 4.099  | 0.0 | 1.435 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 192 | 15954 | 15955 | NS | 1 | 0.0 | 25.512  | 5.971  | 0.0 | 24.58   | 6.579  | 0.0 | 349.836 | 2.124  | 0.0 | 58.189  | 2.9    | 0.0 | 1.44  | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 193 | 15954 | 15955 | NS | 1 | 0.0 | 25.512  | 5.968  | 0.0 | 24.569  | 6.579  | 0.0 | 125.221 | 2.123  | 0.0 | 47.098  | 2.871  | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 194 | 15954 | 15955 | SN | 1 | 0.0 | 22.132  | 6.074  | 0.0 | 266.719 | 7.579  | 0.0 | 152.468 | 2.911  | 0.0 | 70.178  | 4.261  | 0.0 | 1.435 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 195 | 15955 | 15956 | SN | 1 | 0.0 | 29.665  | 13.487 | 0.0 | 128.26  | 13.18  | 0.0 | 140.831 | 11.006 | 0.0 | 153.061 | 14.323 | 0.0 | 1.451 | 0.0 | 0.0 | 1.789 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.142 | 0.0 |
| 196 | 15955 | 15956 | SN | 1 | 0.0 | 29.665  | 13.487 | 0.0 | 128.26  | 13.18  | 0.0 | 140.831 | 11.006 | 0.0 | 153.061 | 14.323 | 0.0 | 1.451 | 0.0 | 0.0 | 1.789 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.142 | 0.0 |
| 197 | 15955 | 15956 | SN | 1 | 0.0 | 22.126  | 6.095  | 0.0 | 128.205 | 7.565  | 0.0 | 153.212 | 2.877  | 0.0 | 153.017 | 4.283  | 0.0 | 1.434 | 0.0 | 0.0 | 1.788 | 0.0 | 0.0 | 1.852 | 0.0 | 0.0 | 2.144 | 0.0 |
| 198 | 15955 | 15956 | NS | 1 | 0.0 | 25.501  | 5.953  | 0.0 | 24.558  | 6.57   | 0.0 | 351.457 | 2.096  | 0.0 | 45.223  | 2.892  | 0.0 | 1.44  | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.136 | 0.0 |
| 199 | 15955 | 15956 | NS | 1 | 0.0 | 27.062  | 10.177 | 0.0 | 30.173  | 14.145 | 0.0 | 177.58  | 9.542  | 0.0 | 34.86   | 12.204 | 0.0 | 1.417 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.134 | 0.0 |
| 200 | 15955 | 15956 | NS | 1 | 0.0 | 27.062  | 10.177 | 0.0 | 30.173  | 14.145 | 0.0 | 177.58  | 9.542  | 0.0 | 34.86   | 12.197 | 0.0 | 1.417 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.134 | 0.0 |
| 201 | 15955 | 15956 | NS | 1 | 0.0 | 25.501  | 5.953  | 0.0 | 24.558  | 6.57   | 0.0 | 351.457 | 2.096  | 0.0 | 45.223  | 2.892  | 0.0 | 1.44  | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.136 | 0.0 |
| 202 | 15955 | 15956 | SN | 1 | 0.0 | 22.126  | 6.095  | 0.0 | 128.205 | 7.565  | 0.0 | 153.212 | 2.877  | 0.0 | 153.017 | 4.283  | 0.0 | 1.434 | 0.0 | 0.0 | 1.788 | 0.0 | 0.0 | 1.852 | 0.0 | 0.0 | 2.144 | 0.0 |
| 203 | 15956 | 15957 | NS | 1 | 0.0 | 150.314 | 10.155 | 0.0 | 29.963  | 14.043 | 0.0 | 263.573 | 9.605  | 0.0 | 38.732  | 12.177 | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.836 | 0.0 | 0.0 | 2.135 | 0.0 |
| 204 | 15956 | 15957 | SN | 1 | 0.0 | 22.121  | 6.095  | 0.0 | 24.233  | 7.589  | 0.0 | 152.975 | 2.892  | 0.0 | 59.579  | 4.338  | 0.0 | 1.434 | 0.0 | 0.0 | 1.787 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.143 | 0.0 |
| 205 | 15956 | 15957 | SN | 1 | 0.0 | 29.593  | 13.469 | 0.0 | 27.382  | 13.134 | 0.0 | 154.894 | 11.024 | 0.0 | 61.669  | 14.299 | 0.0 | 1.451 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.836 | 0.0 | 0.0 | 2.139 | 0.0 |
| 206 | 15956 | 15957 | NS | 1 | 0.0 | 198.091 | 5.965  | 0.0 | 24.575  | 6.561  | 0.0 | 351.898 | 2.116  | 0.0 | 57.56   | 2.904  | 0.0 | 1.443 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 207 | 15956 | 15957 | NS | 1 | 0.0 | 198.091 | 5.965  | 0.0 | 24.575  | 6.561  | 0.0 | 351.898 | 2.116  | 0.0 | 57.56   | 2.904  | 0.0 | 1.443 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 208 | 15956 | 15957 | NS | 1 | 0.0 | 150.314 | 10.155 | 0.0 | 29.963  | 14.043 | 0.0 | 263.573 | 9.605  | 0.0 | 38.732  | 12.177 | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.836 | 0.0 | 0.0 | 2.135 | 0.0 |
| 209 | 15957 | 15958 | NS | 1 | 0.0 | 191.412 | 5.981  | 0.0 | 24.564  | 6.589  | 0.0 | 352.389 | 2.124  | 0.0 | 17.703  | 2.852  | 0.0 | 1.441 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 210 | 15957 | 15958 | SN | 1 | 0.0 | 22.132  | 6.09   | 0.0 | 188.552 | 7.616  | 0.0 | 134.334 | 2.929  | 0.0 | 69.335  | 4.33   | 0.0 | 1.435 | 0.0 | 0.0 | 1.787 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.142 | 0.0 |
| 211 | 15957 | 15958 | SN | 1 | 0.0 | 22.132  | 6.09   | 0.0 | 188.552 | 7.616  | 0.0 | 134.334 | 2.929  | 0.0 | 69.335  | 4.329  | 0.0 | 1.435 | 0.0 | 0.0 | 1.787 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.142 | 0.0 |
| 212 | 15957 | 15958 | SN | 1 | 0.0 | 29.577  | 13.426 | 0.0 | 174.189 | 13.164 | 0.0 | 151.177 | 11.028 | 0.0 | 57.808  | 14.299 | 0.0 | 1.451 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.142 | 0.0 |
| 213 | 15957 | 15958 | SN | 1 | 0.0 | 29.577  | 13.426 | 0.0 | 174.189 | 13.164 | 0.0 | 151.177 | 11.028 | 0.0 | 57.808  | 14.299 | 0.0 | 1.451 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.142 | 0.0 |
| 214 | 15957 | 15958 | NS | 1 | 0.0 | 191.5   | 10.147 | 0.0 | 29.991  | 14.043 | 0.0 | 356.123 | 9.58   | 0.0 | 36.449  | 12.227 | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.135 | 0.0 |
| 215 | 15957 | 15958 | NS | 1 | 0.0 | 191.5   | 10.139 | 0.0 | 29.825  | 13.992 | 0.0 | 356.123 | 9.634  | 0.0 | 25.369  | 12.154 | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.135 | 0.0 |
| 216 | 15957 | 15958 | NS | 1 | 0.0 | 191.412 | 5.954  | 0.0 | 24.564  | 6.585  | 0.0 | 352.389 | 2.112  | 0.0 | 21.657  | 2.878  | 0.0 | 1.441 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |

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

|     |       |       |    |   |       |         |        |     |         |        |     |         |        |     |         |        |       |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-------|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-------|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 217 | 15958 | 15959 | NS | 1 | 0.0   | 25.496  | 5.955  | 0.0 | 24.575  | 6.589  | 0.0 | 127.901 | 2.107  | 0.0 | 67.228  | 2.889  | 0.0   | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 218 | 15958 | 15959 | NS | 1 | 0.0   | 211.437 | 10.205 | 0.0 | 30.046  | 14.13  | 0.0 | 134.442 | 9.513  | 0.0 | 36.223  | 12.152 | 0.0   | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.137 | 0.0 |
| 219 | 15958 | 15959 | SN | 1 | 0.0   | 22.121  | 6.092  | 0.0 | 24.238  | 7.598  | 0.0 | 143.285 | 2.934  | 0.0 | 257.14  | 4.348  | 0.0   | 1.434 | 0.0 | 0.0 | 1.787 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 220 | 15958 | 15959 | NS | 1 | 0.0   | 25.496  | 5.951  | 0.0 | 24.575  | 6.598  | 0.0 | 127.94  | 2.109  | 0.0 | 67.222  | 2.887  | 0.0   | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 221 | 15958 | 15959 | SN | 1 | 0.0   | 22.121  | 6.092  | 0.0 | 24.238  | 7.598  | 0.0 | 143.285 | 2.934  | 0.0 | 257.14  | 4.348  | 0.0   | 1.434 | 0.0 | 0.0 | 1.787 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 222 | 15958 | 15959 | NS | 1 | 0.0   | 25.496  | 6.065  | 0.0 | 24.575  | 6.604  | 0.0 | 127.901 | 2.175  | 0.0 | 12.773  | 2.804  | 0.0   | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 223 | 15958 | 15959 | SN | 1 | 0.0   | 29.61   | 13.437 | 0.0 | 27.387  | 13.123 | 0.0 | 147.372 | 11.05  | 0.0 | 183.961 | 14.342 | 0.0   | 1.45  | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.142 | 0.0 |
| 224 | 15958 | 15959 | NS | 1 | 0.0   | 211.431 | 10.275 | 0.0 | 29.825  | 13.794 | 0.0 | 134.409 | 9.8    | 0.0 | 14.615  | 11.763 | 0.0   | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.137 | 0.0 |
| 225 | 15958 | 15959 | NS | 1 | 0.0   | 211.431 | 10.225 | 0.0 | 30.04   | 14.13  | 0.0 | 134.409 | 9.506  | 0.0 | 36.228  | 12.179 | 0.0   | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.137 | 0.0 |
| 226 | 15958 | 15959 | SN | 1 | 0.0   | 29.61   | 13.437 | 0.0 | 27.387  | 13.123 | 0.0 | 147.372 | 11.05  | 0.0 | 183.961 | 14.342 | 0.0   | 1.45  | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.142 | 0.0 |
| 227 | 15959 | 15960 | SN | 1 | 0.0   | 22.11   | 6.083  | 0.0 | 24.26   | 7.599  | 0.0 | 174.169 | 2.926  | 0.0 | 276.726 | 4.291  | 0.0   | 1.435 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.143 | 0.0 |
| 228 | 15959 | 15960 | NS | 1 | 0.0   | 25.485  | 6.179  | 0.0 | 24.564  | 6.669  | 0.0 | 348.038 | 2.268  | 0.0 | 12.795  | 2.91   | 0.0   | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 229 | 15959 | 15960 | SN | 1 | 0.0   | 29.538  | 13.433 | 0.0 | 27.382  | 13.159 | 0.0 | 147.124 | 11.074 | 0.0 | 211.779 | 14.377 | 0.0   | 1.452 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.143 | 0.0 |
| 230 | 15959 | 15960 | NS | 1 | 0.0   | 26.466  | 10.293 | 0.0 | 29.831  | 13.606 | 0.0 | 282.465 | 10.18  | 0.0 | 13.269  | 11.607 | 0.0   | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.138 | 0.0 |
| 231 | 15959 | 15960 | NS | 1 | 0.0   | 25.485  | 5.969  | 0.0 | 24.564  | 6.597  | 0.0 | 348.038 | 2.114  | 0.0 | 42.063  | 2.908  | 0.0   | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 232 | 15959 | 15960 | NS | 1 | 0.0   | 25.485  | 5.969  | 0.0 | 24.564  | 6.597  | 0.0 | 348.038 | 2.114  | 0.0 | 42.057  | 2.908  | 0.0   | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.136 | 0.0 |
| 233 | 15959 | 15960 | SN | 1 | 0.0   | 22.11   | 6.083  | 0.0 | 24.26   | 7.599  | 0.0 | 174.169 | 2.926  | 0.0 | 276.726 | 4.291  | 0.0   | 1.435 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.143 | 0.0 |
| 234 | 15959 | 15960 | SN | 1 | 0.0   | 29.538  | 13.433 | 0.0 | 27.382  | 13.159 | 0.0 | 147.124 | 11.074 | 0.0 | 211.779 | 14.377 | 0.0   | 1.452 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.143 | 0.0 |
| 235 | 15959 | 15960 | NS | 1 | 0.596 | 26.466  | 10.158 | 0.0 | 30.101  | 14.212 | 0.0 | 282.465 | 9.544  | 0.0 | 36.791  | 12.201 | 0.105 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.138 | 0.0 |
| 236 | 15959 | 15960 | NS | 1 | 0.596 | 26.466  | 10.158 | 0.0 | 30.095  | 14.212 | 0.0 | 282.465 | 9.544  | 0.0 | 36.791  | 12.201 | 0.105 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.138 | 0.0 |
| 237 | 15960 | 15961 | NS | 1 | 0.0   | 149.746 | 10.391 | 0.0 | 29.831  | 13.45  | 0.0 | 347.85  | 10.797 | 0.0 | 13.197  | 11.607 | 0.0   | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.138 | 0.0 |
| 238 | 15960 | 15961 | SN | 1 | 0.0   | 62.082  | 6.104  | 0.0 | 166.264 | 7.59   | 0.0 | 135.399 | 2.917  | 0.0 | 106.128 | 4.305  | 0.0   | 1.436 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 239 | 15960 | 15961 | SN | 1 | 0.0   | 44.28   | 13.719 | 0.0 | 262.616 | 12.488 | 0.0 | 141.895 | 11.566 | 0.0 | 14.526  | 13.372 | 0.0   | 1.453 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.143 | 0.0 |
| 240 | 15960 | 15961 | SN | 1 | 0.0   | 62.082  | 6.224  | 0.0 | 166.264 | 7.501  | 0.0 | 135.399 | 3.085  | 0.0 | 106.128 | 4.138  | 0.0   | 1.436 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 241 | 15960 | 15961 | NS | 1 | 0.717 | 149.746 | 10.126 | 0.0 | 29.831  | 14.165 | 0.0 | 347.85  | 9.599  | 0.0 | 35.897  | 12.183 | 0.001 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.138 | 0.0 |
| 242 | 15960 | 15961 | NS | 1 | 0.717 | 211.089 | 10.116 | 0.0 | 29.831  | 14.165 | 0.0 | 347.845 | 9.599  | 0.0 | 35.897  | 12.183 | 0.001 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.137 | 0.0 |
| 243 | 15960 | 15961 | SN | 1 | 0.0   | 62.082  | 6.104  | 0.0 | 166.264 | 7.59   | 0.0 | 135.399 | 2.915  | 0.0 | 106.128 | 4.303  | 0.0   | 1.436 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.143 | 0.0 |
| 244 | 15960 | 15961 | NS | 1 | 0.0   | 25.512  | 5.973  | 0.0 | 24.564  | 6.591  | 0.0 | 333.032 | 2.129  | 0.0 | 59.099  | 2.895  | 0.0   | 1.442 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 245 | 15960 | 15961 | NS | 1 | 0.0   | 254.181 | 5.975  | 0.0 | 24.564  | 6.586  | 0.0 | 333.048 | 2.131  | 0.0 | 59.104  | 2.897  | 0.0   | 1.442 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 246 | 15960 | 15961 | SN | 1 | 0.0   | 44.28   | 13.57  | 0.0 | 262.616 | 13.153 | 0.0 | 141.895 | 11.11  | 0.0 | 73.713  | 14.356 | 0.0   | 1.453 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.143 | 0.0 |
| 247 | 15960 | 15961 | SN | 1 | 0.0   | 44.28   | 13.57  | 0.0 | 262.616 | 13.164 | 0.0 | 141.895 | 11.11  | 0.0 | 73.702  | 14.356 | 0.0   | 1.453 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.143 | 0.0 |
| 248 | 15960 | 15961 | NS | 1 | 0.0   | 254.181 | 6.343  | 0.0 | 24.564  | 6.832  | 0.0 | 333.048 | 2.42   | 0.0 | 12.795  | 3.056  | 0.0   | 1.442 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 249 | 15961 | 15962 | NS | 1 | 0.0   | 25.485  | 5.977  | 0.0 | 24.564  | 6.597  | 0.0 | 351.75  | 2.117  | 0.0 | 40.976  | 2.894  | 0.0   | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.137 | 0.0 |
| 250 | 15961 | 15962 | NS | 1 | 0.0   | 25.485  | 5.968  | 0.0 | 24.564  | 6.592  | 0.0 | 351.755 | 2.117  | 0.0 | 40.982  | 2.886  | 0.0   | 1.441 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.137 | 0.0 |
| 251 | 15961 | 15962 | NS | 1 | 0.711 | 25.976  | 10.136 | 0.0 | 29.831  | 14.185 | 0.0 | 130.559 | 9.599  | 0.0 | 36.912  | 12.276 | 0.104 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.137 | 0.0 |
| 252 | 15961 | 15962 | NS | 1 | 0.0   | 25.976  | 10.145 | 0.0 | 29.831  | 14.185 | 0.0 | 130.576 | 9.599  | 0.0 | 36.912  | 12.268 | 0.0   | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.137 | 0.0 |

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