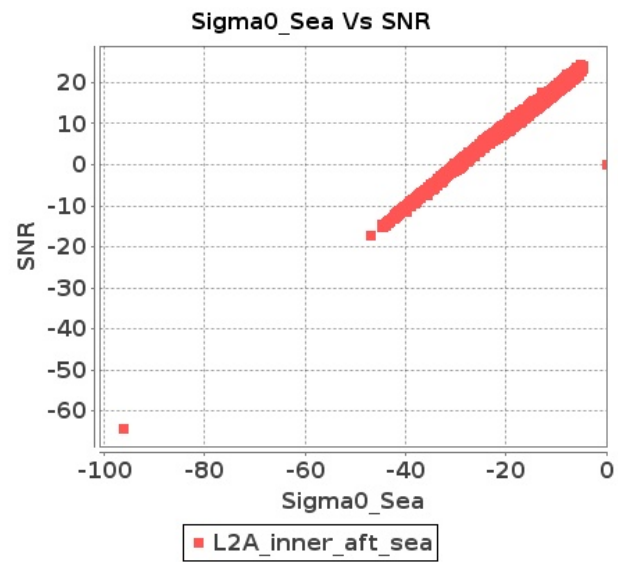


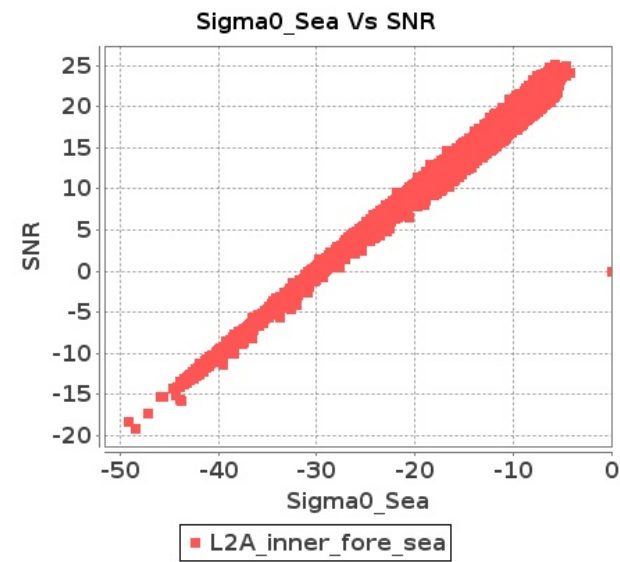
# SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 19-OCT-2019 To 20-OCT-2019

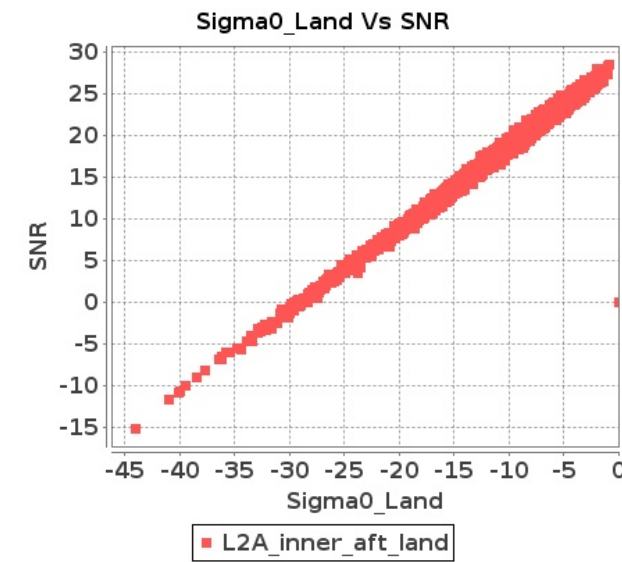
### Inner Sea Aft Sigma0VsSNR



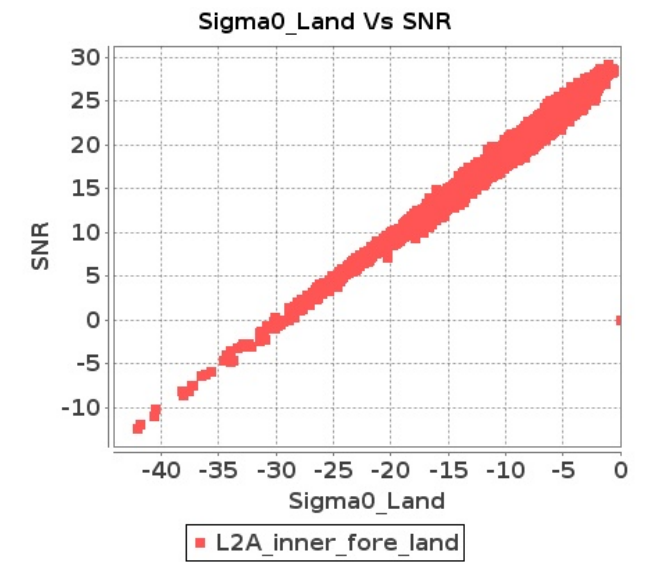
### Inner Sea Fore Sigma0VsSNR



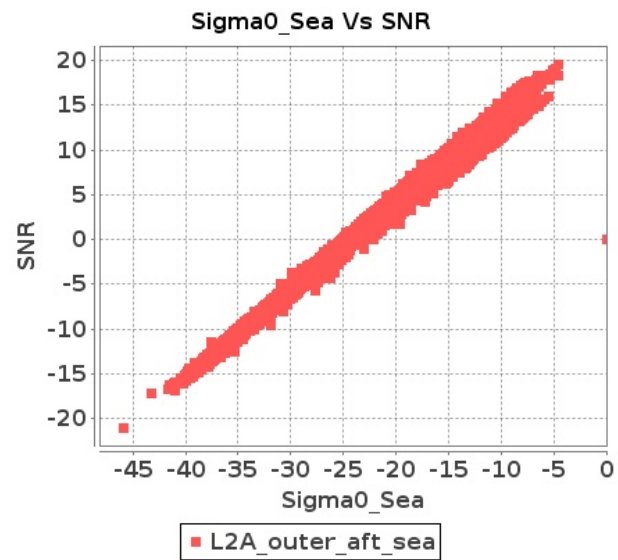
### Inner Land Aft Sigma0VsSNR



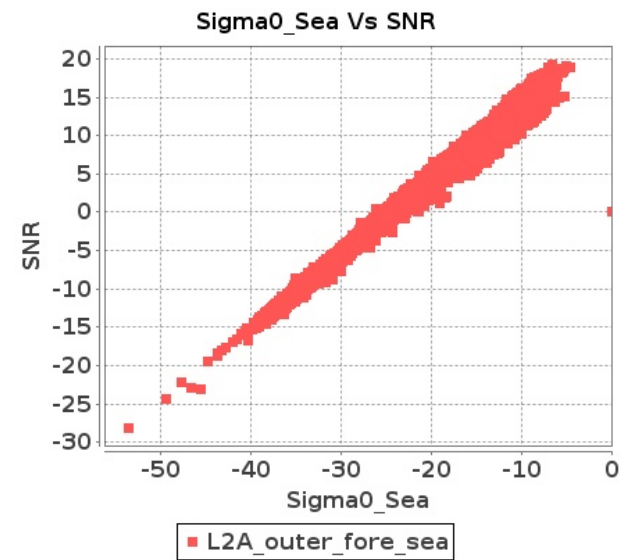
### Inner Land Fore Sigma0VsSNR



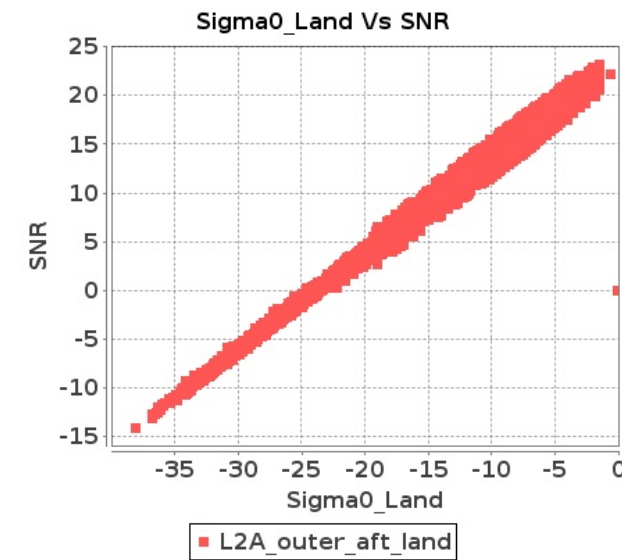
### Outer Sea Aft Sigma0VsSNR



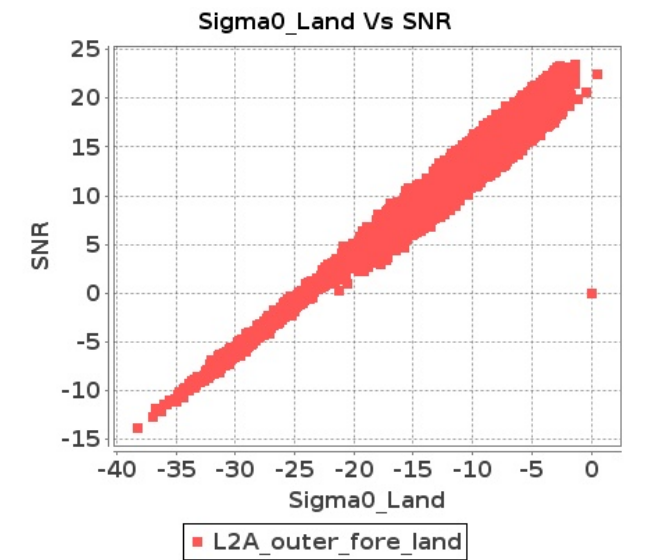
### Outer Sea Fore Sigma0VsSNR



### Outer Land Aft Sigma0VsSNR



### Outer Land Fore Sigma0VsSNR



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

Report between 19-OCT-2019 To 20-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     | 16208       | 16209     | NS   | 1    | 0.0       | 54.06  | 8.761      | 0.0        | 57.64  | 10.982     | 0.0       | 47.344 | 6.99       | 0.0        | 47.264 | 8.515      | 0.0       | 54.671 | 8.923      | 0.0        | 54.122 | 11.003     | 0.0       | 48.092 | 6.898      | 0.0        | 48.357 | 8.123      |
| 2     | 16208       | 16209     | SN   | 1    | 0.0       | 53.859 | 3.828      | 0.0        | 51.665 | 5.328      | 0.0       | 47.14  | 3.709      | 0.0        | 47.009 | 4.542      | 0.0       | 54.381 | 3.807      | 0.0        | 51.878 | 4.912      | 0.0       | 45.844 | 3.41       | 0.0        | 47.694 | 3.982      |
| 3     | 16208       | 16209     | SN   | 1    | 0.0       | 44.939 | 1.095      | 0.0        | 47.153 | 1.571      | 0.0       | 44.592 | 0.945      | 0.0        | 45.542 | 1.325      | 0.0       | 44.861 | 1.146      | 0.0        | 47.181 | 1.409      | 0.0       | 44.361 | 0.858      | 0.0        | 43.733 | 1.041      |
| 4     | 16208       | 16209     | SN   | 1    | 0.0       | 45.633 | 1.076      | 0.0        | 47.153 | 1.563      | 0.0       | 44.592 | 0.947      | 0.0        | 45.542 | 1.314      | 0.0       | 44.861 | 1.121      | 0.0        | 47.181 | 1.4        | 0.0       | 44.361 | 0.866      | 0.0        | 43.733 | 1.023      |
| 5     | 16208       | 16209     | SN   | 1    | 0.0       | 53.859 | 3.758      | 0.0        | 51.665 | 5.338      | 0.0       | 47.14  | 3.627      | 0.0        | 47.009 | 4.487      | 0.0       | 54.381 | 3.738      | 0.0        | 51.878 | 4.902      | 0.0       | 45.844 | 3.336      | 0.0        | 47.694 | 3.933      |
| 6     | 16208       | 16209     | NS   | 1    | 0.0       | 49.246 | 2.201      | 0.0        | 48.925 | 3.096      | 0.0       | 42.867 | 1.954      | 0.0        | 47.948 | 2.644      | 0.0       | 48.48  | 2.24       | 0.0        | 48.16  | 2.983      | 0.0       | 41.639 | 1.921      | 0.0        | 48.593 | 2.519      |
| 7     | 16208       | 16209     | NS   | 1    | 0.0       | 49.246 | 2.201      | 0.0        | 48.925 | 3.1        | 0.0       | 39.767 | 1.96       | 0.0        | 47.948 | 2.66       | 0.0       | 48.48  | 2.235      | 0.0        | 48.16  | 2.985      | 0.0       | 39.864 | 1.928      | 0.0        | 48.593 | 2.519      |
| 8     | 16208       | 16209     | SN   | 1    | 0.0       | 53.859 | 3.758      | 0.0        | 51.665 | 5.338      | 0.0       | 47.14  | 3.627      | 0.0        | 47.009 | 4.487      | 0.0       | 54.381 | 3.738      | 0.0        | 51.878 | 4.902      | 0.0       | 45.844 | 3.336      | 0.0        | 47.694 | 3.933      |
| 9     | 16208       | 16209     | NS   | 1    | 0.0       | 54.06  | 8.791      | 0.0        | 57.64  | 10.992     | 0.0       | 46.393 | 7.04       | 0.0        | 46.302 | 8.536      | 0.0       | 54.671 | 8.923      | 0.0        | 54.122 | 10.992     | 0.0       | 43.529 | 6.934      | 0.0        | 48.357 | 8.109      |
| 10    | 16208       | 16209     | SN   | 1    | 0.0       | 45.633 | 1.076      | 0.0        | 47.153 | 1.563      | 0.0       | 44.592 | 0.947      | 0.0        | 45.542 | 1.312      | 0.0       | 44.861 | 1.121      | 0.0        | 47.181 | 1.4        | 0.0       | 44.361 | 0.864      | 0.0        | 43.733 | 1.023      |
| 11    | 16209       | 16210     | NS   | 1    | 0.0       | 51.428 | 2.952      | 0.826      | 50.689 | 3.836      | 0.0       | 44.417 | 2.631      | 0.0        | 48.709 | 3.321      | 0.0       | 49.684 | 2.942      | 0.317      | 50.841 | 3.46       | 0.0       | 42.17  | 2.382      | 0.0        | 44.065 | 2.829      |
| 12    | 16209       | 16210     | SN   | 1    | 0.0       | 41.5   | 2.319      | 0.0        | 42.289 | 2.904      | 0.0       | 39.134 | 2.554      | 0.0        | 44.697 | 3.515      | 0.0       | 42.369 | 2.329      | 0.0        | 42.492 | 2.711      | 0.0       | 39.628 | 2.469      | 0.0        | 41.432 | 3.18       |
| 13    | 16209       | 16210     | NS   | 1    | 0.0       | 46.613 | 0.779      | 0.0        | 51.204 | 1.128      | 0.0       | 36.31  | 0.775      | 0.0        | 44.158 | 1.07       | 0.0       | 45.534 | 0.784      | 0.0        | 52.098 | 1.033      | 0.0       | 35.9   | 0.655      | 0.0        | 43.434 | 0.795      |
| 14    | 16209       | 16210     | SN   | 1    | 0.0       | 40.898 | 0.564      | 0.0        | 41.972 | 0.854      | 0.0       | 35.4   | 0.859      | 0.0        | 37.631 | 1.213      | 0.0       | 40.416 | 0.566      | 0.0        | 41.563 | 0.815      | 0.0       | 35.785 | 0.791      | 0.0        | 38.063 | 1.062      |
| 15    | 16209       | 16210     | NS   | 1    | 0.0       | 42.495 | 0.786      | 0.0        | 51.838 | 1.135      | 0.0       | 36.941 | 0.756      | 0.0        | 45.129 | 1.063      | 0.0       | 41.605 | 0.775      | 0.0        | 52.732 | 1.044      | 0.0       | 34.491 | 0.671      | 0.0        | 44.404 | 0.809      |
| 16    | 16209       | 16210     | NS   | 1    | 0.0       | 51.393 | 3.013      | 0.738      | 52.278 | 3.816      | 0.0       | 39.052 | 2.68       | 0.0        | 43.786 | 3.335      | 0.0       | 49.647 | 3.003      | 0.404      | 53.271 | 3.49       | 0.0       | 38.094 | 2.432      | 0.0        | 44.482 | 2.879      |
| 17    | 16209       | 16210     | SN   | 1    | 0.0       | 41.5   | 2.216      | 0.0        | 42.289 | 2.828      | 0.0       | 38.723 | 2.565      | 0.0        | 42.385 | 3.524      | 0.0       | 42.369 | 2.246      | 0.0        | 42.492 | 2.622      | 0.0       | 39.628 | 2.464      | 0.0        | 39.673 | 3.142      |
| 18    | 16209       | 16210     | SN   | 1    | 0.0       | 41.5   | 2.195      | 0.0        | 42.289 | 2.818      | 0.0       | 39.134 | 2.558      | 0.0        | 44.697 | 3.481      | 0.0       | 42.369 | 2.226      | 0.0        | 42.492 | 2.622      | 0.0       | 39.628 | 2.464      | 0.0        | 41.432 | 3.113      |
| 19    | 16209       | 16210     | SN   | 1    | 0.0       | 40.898 | 0.553      | 0.0        | 41.972 | 0.851      | 0.0       | 35.4   | 0.855      | 0.0        | 37.631 | 1.211      | 0.0       | 40.416 | 0.553      | 0.0        | 41.563 | 0.805      | 0.0       | 35.785 | 0.785      | 0.0        | 38.063 | 1.053      |
| 20    | 16209       | 16210     | SN   | 1    | 0.0       | 40.898 | 0.555      | 0.0        | 41.972 | 0.849      | 0.0       | 35.4   | 0.855      | 0.0        | 36.822 | 1.215      | 0.0       | 40.416 | 0.548      | 0.0        | 41.563 | 0.798      | 0.0       | 35.785 | 0.785      | 0.0        | 38.063 | 1.044      |
| 21    | 16210       | 16211     | SN   | 1    | 0.0       | 33.893 | 0.644      | 0.0        | 41.2   | 0.794      | 0.0       | 38.393 | 0.892      | 0.0        | 40.423 | 1.261      | 0.0       | 33.936 | 0.63       | 0.0        | 44.764 | 0.688      | 0.0       | 38.347 | 0.82       | 0.0        | 38.866 | 0.951      |
| 22    | 16210       | 16211     | SN   | 1    | 0.0       | 35.052 | 0.636      | 0.0        | 40.203 | 0.785      | 0.0       | 39.537 | 0.928      | 0.0        | 40.462 | 1.245      | 0.0       | 35.442 | 0.625      | 0.0        | 44.764 | 0.674      | 0.0       | 40.429 | 0.859      | 0.0        | 38.905 | 0.934      |
| 23    | 16210       | 16211     | NS   | 1    | 0.0       | 50.506 | 0.843      | 0.0        | 40.248 | 0.893      | 0.0       | 45.604 | 1.024      | 0.0        | 37.038 | 1.168      | 0.0       | 49.32  | 0.852      | 0.0        | 39.183 | 0.814      | 0.0       | 45.922 | 0.978      | 0.0        | 37.107 | 0.973      |
| 24    | 16210       | 16211     | SN   | 1    | 0.0       | 38.31  | 2.047      | 0.0        | 45.51  | 2.722      | 0.0       | 41.385 | 2.458      | 0.0        | 39.218 | 3.468      | 0.0       | 38.308 | 2.037      | 0.0        | 44.967 | 2.33       | 0.0       | 38.982 | 2.386      | 0.0        | 36.327 | 2.789      |
| 25    | 16210       | 16211     | NS   | 1    | 0.0       | 49.314 | 2.74       | 0.212      | 49.373 | 3.236      | 0.0       | 39.329 | 2.979      | 0.0        | 37.199 | 3.378      | 0.0       | 48.061 | 2.689      | 0.167      | 49.025 | 2.788      | 0.0       | 36.557 | 3.072      | 0.0        | 35.112 | 3.043      |
| 26    | 16210       | 16211     | NS   | 1    | 0.0       | 44.02  | 2.679      | 0.235      | 47.34  | 3.226      | 0.0       | 40.219 | 3.022      | 0.0        | 46.439 | 3.371      | 0.0       | 44.385 | 2.649      | 0.162      | 46.995 | 2.768      | 0.0       | 40.044 | 3.057      | 0.0        | 46.759 | 2.958      |
| 27    | 16210       | 16211     | NS   | 1    | 0.0       | 52.654 | 0.847      | 0.0        | 41.737 | 0.882      | 0.0       | 41.613 | 0.986      | 0.0        | 40.29  | 1.157      | 0.0       | 51.438 | 0.84       | 0.0        | 40.633 | 0.787      | 0.0       | 41.932 | 0.955      | 0.0        | 39.544 | 0.971      |
| 28    | 16210       | 16211     | SN   | 1    | 0.0       | 37.295 | 2.067      | 0.0        | 45.51  | 2.752      | 0.0       | 41.385 | 2.527      | 0.0        | 39.654 | 3.429      | 0.0       | 37.156 | 2.057      | 0.0        | 44.967 | 2.406      | 0.0       | 40.673 | 2.399      | 0.0        | 36.761 | 2.76       |
| 29    | 16210       | 16211     | SN   | 1    | 0.0       | 38.31  | 2.067      | 0.0        | 45.51  | 2.711      | 0.0       | 41.385 | 2.52       | 0.0        | 39.22  | 3.422      | 0.0       | 38.308 | 2.067      | 0.0        | 44.967 | 2.356      | 0.0       | 38.982 | 2.449      | 0.0        | 36.327 | 2.746      |
| 30    | 16210       | 16211     | SN   | 1    | 0.0       | 33.893 | 0.647      | 0.0        | 41.2   | 0.789      | 0.0       | 38.393 | 0.919      | 0.0        | 40.437 | 1.245      | 0.0       | 33.936 | 0.632      | 0.0        | 44.764 | 0.678      | 0.0       | 38.347 | 0.848      | 0.0        | 38.882 | 0.943      |
| 31    | 16211       | 16212     | NS   | 1    | 0.0       | 44.312 | 1.351      | 0.0        | 50.551 | 2.06       | 0.0       | 39.575 | 1.191      | 0.0        | 42.222 | 1.621      | 0.0       | 45.367 | 1.356      | 0.0        | 47.415 | 1.929      | 0.0       | 41.424 | 1.152      | 0.0        | 42.218 | 1.479      |

|                          |            |      |        |  |  |
|--------------------------|------------|------|--------|--|--|
| Parameter Specifications | Parameters | SNR  | Sigma0 | <span style="color: green;">■</span> Normal    | <span style="color: yellow;">■</span> Deviations |
|                          | Range      | 20.0 | 20.0   | <span style="color: orange;">■</span> Alarming | <span style="color: red;">■</span> High Errors   |

|    |       |       |    |   |     |        |       |       |        |        |     |        |       |     |        |       |     |        |       |       |        |        |     |        |       |     |        |       |
|----|-------|-------|----|---|-----|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|
| 32 | 16211 | 16212 | SN | 1 | 0.0 | 43.534 | 0.672 | 0.0   | 50.342 | 1.024  | 0.0 | 38.25  | 0.972 | 0.0 | 37.888 | 1.409 | 0.0 | 44.312 | 0.685 | 0.0   | 50.198 | 0.888  | 0.0 | 40.387 | 0.866 | 0.0 | 36.555 | 1.107 |
| 33 | 16211 | 16212 | NS | 1 | 0.0 | 50.851 | 5.614 | 0.0   | 54.328 | 7.36   | 0.0 | 42.915 | 4.751 | 0.0 | 43.814 | 5.436 | 0.0 | 50.587 | 5.574 | 0.0   | 53.873 | 7.146  | 0.0 | 43.628 | 4.601 | 0.0 | 45.613 | 5.165 |
| 34 | 16211 | 16212 | NS | 1 | 0.0 | 52.299 | 5.553 | 0.0   | 61.028 | 7.35   | 0.0 | 42.875 | 4.75  | 0.0 | 43.879 | 5.386 | 0.0 | 53.049 | 5.523 | 0.0   | 60.923 | 7.146  | 0.0 | 43.589 | 4.637 | 0.0 | 45.678 | 5.129 |
| 35 | 16211 | 16212 | SN | 1 | 0.0 | 39.165 | 0.679 | 0.0   | 43.203 | 1.024  | 0.0 | 36.068 | 0.963 | 0.0 | 38.366 | 1.455 | 0.0 | 39.11  | 0.679 | 0.0   | 43.06  | 0.879  | 0.0 | 37.753 | 0.876 | 0.0 | 38.343 | 1.09  |
| 36 | 16211 | 16212 | SN | 1 | 0.0 | 40.477 | 2.907 | 0.183 | 44.81  | 3.667  | 0.0 | 40.872 | 2.916 | 0.0 | 42.021 | 4.142 | 0.0 | 40.202 | 2.846 | 0.146 | 44.01  | 3.281  | 0.0 | 39.295 | 2.71  | 0.0 | 38.156 | 3.295 |
| 37 | 16211 | 16212 | SN | 1 | 0.0 | 41.641 | 2.958 | 0.183 | 49.519 | 3.626  | 0.0 | 37.484 | 2.987 | 0.0 | 42.711 | 4.12  | 0.0 | 42.553 | 2.877 | 0.146 | 48.087 | 3.271  | 0.0 | 37.568 | 2.767 | 0.0 | 38.165 | 3.302 |
| 38 | 16211 | 16212 | NS | 1 | 0.0 | 44.312 | 1.351 | 0.0   | 52.729 | 2.06   | 0.0 | 39.575 | 1.187 | 0.0 | 42.188 | 1.6   | 0.0 | 45.367 | 1.356 | 0.0   | 49.593 | 1.938  | 0.0 | 41.424 | 1.141 | 0.0 | 42.184 | 1.472 |
| 39 | 16212 | 16213 | NS | 1 | 0.0 | 42.354 | 1.435 | 0.0   | 48.887 | 1.735  | 0.0 | 42.679 | 1.263 | 0.0 | 44.366 | 1.691 | 0.0 | 42.202 | 1.468 | 0.0   | 49.258 | 1.724  | 0.0 | 43.558 | 1.267 | 0.0 | 43.447 | 1.572 |
| 40 | 16212 | 16213 | SN | 1 | 0.0 | 37.553 | 1.432 | 0.0   | 40.575 | 2.088  | 0.0 | 37.563 | 1.684 | 0.0 | 37.894 | 2.564 | 0.0 | 37.923 | 1.468 | 0.0   | 39.767 | 1.952  | 0.0 | 36.714 | 1.657 | 0.0 | 36.125 | 2.323 |
| 41 | 16212 | 16213 | SN | 1 | 0.0 | 42.578 | 1.43  | 0.0   | 45.958 | 2.149  | 0.0 | 37.283 | 1.691 | 0.0 | 35.76  | 2.518 | 0.0 | 40.489 | 1.477 | 0.0   | 42.976 | 2.005  | 0.0 | 38.057 | 1.714 | 0.0 | 37.156 | 2.312 |
| 42 | 16212 | 16213 | SN | 1 | 0.0 | 47.598 | 5.065 | 1.043 | 44.063 | 6.677  | 0.0 | 39.524 | 5.148 | 0.0 | 46.316 | 7.285 | 0.0 | 48.323 | 5.013 | 0.199 | 44.955 | 6.551  | 0.0 | 41.115 | 5.457 | 0.0 | 45.801 | 6.983 |
| 43 | 16212 | 16213 | SN | 1 | 0.0 | 45.244 | 5.014 | 1.043 | 43.621 | 6.531  | 0.0 | 38.61  | 5.094 | 0.0 | 46.347 | 7.045 | 0.0 | 46.717 | 4.923 | 0.199 | 44.955 | 6.409  | 0.0 | 39.503 | 5.399 | 0.0 | 46.789 | 6.768 |
| 44 | 16212 | 16213 | SN | 1 | 0.0 | 42.578 | 1.477 | 0.0   | 45.958 | 2.221  | 0.0 | 43.437 | 1.724 | 0.0 | 38.509 | 2.615 | 0.0 | 40.489 | 1.526 | 0.0   | 42.976 | 2.071  | 0.0 | 42.471 | 1.748 | 0.0 | 37.156 | 2.394 |
| 45 | 16212 | 16213 | SN | 1 | 0.0 | 44.891 | 4.953 | 1.043 | 44.453 | 6.399  | 0.0 | 41.358 | 5.229 | 0.0 | 43.07  | 7.052 | 0.0 | 46.364 | 4.943 | 0.199 | 44.966 | 6.338  | 0.0 | 40.261 | 5.392 | 0.0 | 40.926 | 6.768 |
| 46 | 16212 | 16213 | NS | 1 | 0.0 | 49.727 | 4.465 | 0.0   | 52.825 | 5.356  | 0.0 | 45.154 | 4.266 | 0.0 | 44.365 | 5.394 | 0.0 | 50.449 | 4.597 | 0.0   | 53.711 | 5.285  | 0.0 | 43.904 | 4.351 | 0.0 | 45.053 | 5.195 |
| 47 | 16212 | 16213 | NS | 1 | 0.0 | 49.727 | 4.394 | 0.0   | 52.825 | 5.386  | 0.0 | 45.703 | 4.287 | 0.0 | 45.227 | 5.451 | 0.0 | 50.448 | 4.526 | 0.0   | 53.711 | 5.295  | 0.0 | 44.532 | 4.323 | 0.0 | 45.006 | 5.245 |
| 48 | 16212 | 16213 | NS | 1 | 0.0 | 39.902 | 1.414 | 0.0   | 48.611 | 1.726  | 0.0 | 42.787 | 1.265 | 0.0 | 44.852 | 1.689 | 0.0 | 40.827 | 1.455 | 0.0   | 48.985 | 1.713  | 0.0 | 43.668 | 1.262 | 0.0 | 43.934 | 1.57  |
| 49 | 16213 | 16214 | NS | 1 | 0.0 | 44.215 | 1.101 | 0.0   | 42.542 | 1.161  | 0.0 | 40.289 | 1.363 | 0.0 | 41.125 | 1.632 | 0.0 | 45.442 | 1.105 | 0.0   | 43.125 | 1.11   | 0.0 | 40.12  | 1.351 | 0.0 | 38.114 | 1.377 |
| 50 | 16213 | 16214 | SN | 1 | 0.0 | 50.503 | 8.005 | 0.0   | 51.722 | 10.685 | 0.0 | 43.893 | 6.793 | 0.0 | 42.416 | 8.962 | 0.0 | 50.341 | 8.437 | 0.0   | 54.164 | 10.685 | 0.0 | 43.354 | 6.721 | 0.0 | 39.659 | 8.861 |
| 51 | 16213 | 16214 | SN | 1 | 0.0 | 50.503 | 7.882 | 0.0   | 51.722 | 10.573 | 0.0 | 43.893 | 6.722 | 0.0 | 42.416 | 8.832 | 0.0 | 50.341 | 8.307 | 0.0   | 54.164 | 10.553 | 0.0 | 43.354 | 6.651 | 0.0 | 39.659 | 8.739 |
| 52 | 16213 | 16214 | SN | 1 | 0.0 | 50.503 | 7.882 | 0.0   | 51.722 | 10.573 | 0.0 | 43.893 | 6.722 | 0.0 | 42.416 | 8.832 | 0.0 | 50.341 | 8.307 | 0.0   | 54.164 | 10.553 | 0.0 | 43.354 | 6.651 | 0.0 | 39.659 | 8.739 |
| 53 | 16213 | 16214 | NS | 1 | 0.0 | 48.812 | 3.492 | 0.0   | 47.077 | 3.742  | 0.0 | 43.253 | 4.323 | 0.0 | 47.494 | 4.817 | 0.0 | 49.114 | 3.502 | 0.0   | 47.396 | 3.6    | 0.0 | 41.929 | 4.274 | 0.0 | 45.974 | 4.176 |
| 54 | 16213 | 16214 | NS | 1 | 0.0 | 48.63  | 3.492 | 0.0   | 47.204 | 3.742  | 0.0 | 42.776 | 4.437 | 0.0 | 47.494 | 4.795 | 0.0 | 48.93  | 3.522 | 0.0   | 47.284 | 3.63   | 0.0 | 41.929 | 4.345 | 0.0 | 45.974 | 4.19  |
| 55 | 16213 | 16214 | SN | 1 | 0.0 | 43.118 | 2.256 | 0.0   | 49.34  | 3.231  | 0.0 | 40.514 | 1.947 | 0.0 | 40.524 | 2.866 | 0.0 | 43.395 | 2.287 | 0.0   | 47.611 | 3.097  | 0.0 | 42.803 | 1.934 | 0.0 | 38.615 | 2.722 |
| 56 | 16213 | 16214 | NS | 1 | 0.0 | 46.169 | 1.11  | 0.0   | 42.391 | 1.161  | 0.0 | 38.466 | 1.342 | 0.0 | 41.125 | 1.625 | 0.0 | 47.396 | 1.114 | 0.0   | 42.972 | 1.114  | 0.0 | 39.073 | 1.347 | 0.0 | 38.114 | 1.38  |
| 57 | 16213 | 16214 | SN | 1 | 0.0 | 43.118 | 2.256 | 0.0   | 49.34  | 3.231  | 0.0 | 40.514 | 1.947 | 0.0 | 40.524 | 2.866 | 0.0 | 43.395 | 2.287 | 0.0   | 47.611 | 3.097  | 0.0 | 42.803 | 1.934 | 0.0 | 38.615 | 2.722 |
| 58 | 16213 | 16214 | SN | 1 | 0.0 | 43.118 | 2.293 | 0.0   | 49.34  | 3.281  | 0.0 | 42.303 | 1.966 | 0.0 | 40.417 | 2.909 | 0.0 | 43.395 | 2.321 | 0.0   | 47.611 | 3.145  | 0.0 | 44.59  | 1.954 | 0.0 | 38.704 | 2.765 |
| 59 | 16214 | 16215 | NS | 1 | 0.0 | 45.788 | 4.23  | 0.282 | 52.677 | 5.709  | 0.0 | 43.868 | 4.223 | 0.0 | 40.009 | 5.409 | 0.0 | 46.772 | 4.312 | 0.477 | 54.231 | 5.495  | 0.0 | 42.231 | 4.173 | 0.0 | 37.661 | 4.754 |
| 60 | 16214 | 16215 | NS | 1 | 0.0 | 44.017 | 1.171 | 0.0   | 47.563 | 1.699  | 0.0 | 38.661 | 1.379 | 0.0 | 39.899 | 1.902 | 0.0 | 43.422 | 1.139 | 0.0   | 46.618 | 1.586  | 0.0 | 39.445 | 1.296 | 0.0 | 35.235 | 1.661 |
| 61 | 16214 | 16215 | NS | 1 | 0.0 | 41.384 | 1.213 | 0.0   | 42.467 | 1.623  | 0.0 | 39.294 | 1.377 | 0.0 | 40.009 | 1.944 | 0.0 | 40.979 | 1.206 | 0.0   | 43.244 | 1.485  | 0.0 | 39.999 | 1.343 | 0.0 | 37.661 | 1.702 |
| 62 | 16214 | 16215 | SN | 1 | 0.0 | 53.529 | 7.222 | 0.0   | 48.772 | 8.305  | 0.0 | 49.383 | 5.471 | 0.0 | 51.676 | 6.168 | 0.0 | 53.719 | 7.475 | 0.0   | 50.87  | 8.001  | 0.0 | 48.5   | 5.571 | 0.0 | 49.378 | 6.14  |
| 63 | 16214 | 16215 | SN | 1 | 0.0 | 53.529 | 7.181 | 0.0   | 49.301 | 8.275  | 0.0 | 48.133 | 5.471 | 0.0 | 51.818 | 6.239 | 0.0 | 53.718 | 7.414 | 0.0   | 51.397 | 8.001  | 0.0 | 47.25  | 5.542 | 0.0 | 49.522 | 6.175 |
| 64 | 16214 | 16215 | SN | 1 | 0.0 | 50.226 | 1.923 | 0.0   | 52.33  | 2.629  | 0.0 | 45.411 | 1.568 | 0.0 | 52.267 | 2.227 | 0.0 | 50.972 | 1.952 | 0.0   | 47.904 | 2.49   | 0.0 | 43.511 | 1.57  | 0.0 | 49.402 | 2.189 |
| 65 | 16214 | 16215 | SN | 1 | 0.0 | 50.226 | 1.84  | 0.0   | 52.33  | 2.498  | 0.0 | 45.411 | 1.486 | 0.0 | 52.267 | 2.107 | 0.0 | 50.972 | 1.865 | 0.0   | 47.904 | 2.372  | 0.0 | 43.511 | 1.484 | 0.0 | 49.402 | 2.058 |
| 66 | 16214 | 16215 | SN | 1 | 0.0 | 50.226 | 1.831 | 0.0   | 52.33  | 2.491  | 0.0 | 44.162 | 1.493 | 0.0 | 52.409 | 2.113 | 0.0 | 50.972 | 1.865 | 0.0   | 47.904 | 2.374  | 0.0 | 42.262 | 1.5   | 0.0 | 49.546 | 2.067 |
| 67 | 16214 | 16215 | NS | 1 | 0.0 | 45.007 | 4.142 | 0.0   | 51.743 | 5.806  | 0.0 | 45.94  | 4.167 | 0.0 | 40.445 | 5.522 | 0.0 | 44.587 | 3.979 | 0.0   | 52.608 | 5.613  | 0.0 | 45.568 | 3.968 | 0.0 | 40.167 | 5.187 |

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

|     |       |       |    |   |     |        |       |       |        |       |     |        |       |     |        |       |     |        |       |       |        |       |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-------|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-------|--------|-------|-----|--------|-------|-----|--------|-------|
| 68  | 16214 | 16215 | SN | 1 | 0.0 | 53.529 | 7.586 | 0.0   | 48.772 | 8.604 | 0.0 | 49.383 | 5.726 | 0.0 | 51.676 | 6.456 | 0.0 | 53.719 | 7.871 | 0.0   | 50.87  | 8.395 | 0.0 | 48.5   | 5.841 | 0.0 | 49.378 | 6.433 |
| 69  | 16215 | 16216 | NS | 1 | 0.0 | 45.437 | 1.053 | 0.0   | 47.522 | 1.442 | 0.0 | 38.921 | 1.339 | 0.0 | 42.71  | 1.683 | 0.0 | 44.446 | 1.057 | 0.0   | 46.374 | 1.37  | 0.0 | 38.848 | 1.279 | 0.0 | 40.162 | 1.402 |
| 70  | 16215 | 16216 | SN | 1 | 0.0 | 59.185 | 4.394 | 0.0   | 52.067 | 5.119 | 0.0 | 48.969 | 4.085 | 0.0 | 45.623 | 5.057 | 0.0 | 59.07  | 4.461 | 0.0   | 51.538 | 4.701 | 0.0 | 46.835 | 3.713 | 0.0 | 47.255 | 4.486 |
| 71  | 16215 | 16216 | NS | 1 | 0.0 | 53.31  | 3.459 | 0.554 | 51.927 | 4.152 | 0.0 | 47.436 | 4.294 | 0.0 | 43.997 | 4.982 | 0.0 | 54.175 | 3.622 | 0.579 | 53.334 | 3.857 | 0.0 | 47.663 | 4.024 | 0.0 | 41.722 | 4.497 |
| 72  | 16215 | 16216 | NS | 1 | 0.0 | 44.622 | 3.449 | 0.551 | 48.311 | 4.162 | 0.0 | 42.728 | 4.266 | 0.0 | 47.193 | 4.953 | 0.0 | 44.472 | 3.551 | 0.579 | 50.135 | 3.877 | 0.0 | 43.147 | 4.088 | 0.0 | 45.668 | 4.511 |
| 73  | 16215 | 16216 | SN | 1 | 0.0 | 59.185 | 4.083 | 0.0   | 52.067 | 4.894 | 0.0 | 48.969 | 3.784 | 0.0 | 45.623 | 4.745 | 0.0 | 59.07  | 4.133 | 0.0   | 51.538 | 4.518 | 0.0 | 46.835 | 3.436 | 0.0 | 47.255 | 4.176 |
| 74  | 16215 | 16216 | SN | 1 | 0.0 | 59.185 | 4.083 | 0.0   | 52.067 | 4.894 | 0.0 | 48.969 | 3.784 | 0.0 | 45.623 | 4.745 | 0.0 | 59.07  | 4.133 | 0.0   | 51.538 | 4.518 | 0.0 | 46.835 | 3.436 | 0.0 | 47.255 | 4.176 |
| 75  | 16215 | 16216 | SN | 1 | 0.0 | 51.048 | 1.324 | 0.0   | 47.411 | 1.593 | 0.0 | 42.256 | 1.153 | 0.0 | 46.989 | 1.549 | 0.0 | 50.331 | 1.324 | 0.0   | 47.449 | 1.475 | 0.0 | 38.28  | 1.09  | 0.0 | 46.218 | 1.371 |
| 76  | 16215 | 16216 | NS | 1 | 0.0 | 47.08  | 1.048 | 0.0   | 47.3   | 1.483 | 0.0 | 42.159 | 1.387 | 0.0 | 38.386 | 1.704 | 0.0 | 49.218 | 1.039 | 0.0   | 47.084 | 1.388 | 0.0 | 42.807 | 1.281 | 0.0 | 38.986 | 1.424 |
| 77  | 16215 | 16216 | SN | 1 | 0.0 | 51.048 | 1.209 | 0.0   | 47.411 | 1.488 | 0.0 | 42.256 | 1.059 | 0.0 | 46.989 | 1.444 | 0.0 | 50.331 | 1.211 | 0.0   | 47.449 | 1.386 | 0.0 | 38.28  | 0.997 | 0.0 | 46.218 | 1.263 |
| 78  | 16215 | 16216 | SN | 1 | 0.0 | 51.048 | 1.209 | 0.0   | 47.411 | 1.488 | 0.0 | 42.256 | 1.059 | 0.0 | 46.989 | 1.444 | 0.0 | 50.331 | 1.211 | 0.0   | 47.449 | 1.386 | 0.0 | 38.28  | 0.997 | 0.0 | 46.218 | 1.263 |
| 79  | 16216 | 16217 | NS | 1 | 0.0 | 49.592 | 1.268 | 0.0   | 44.803 | 1.586 | 0.0 | 43.8   | 1.157 | 0.0 | 43.712 | 1.653 | 0.0 | 48.8   | 1.29  | 0.0   | 44.652 | 1.484 | 0.0 | 43.529 | 1.049 | 0.0 | 43.45  | 1.419 |
| 80  | 16216 | 16217 | NS | 1 | 0.0 | 52.682 | 4.903 | 0.0   | 63.051 | 6.455 | 0.0 | 47.236 | 4.089 | 0.0 | 46.455 | 5.784 | 0.0 | 53.567 | 4.832 | 0.0   | 61.46  | 6.069 | 0.0 | 45.513 | 3.925 | 0.0 | 44.497 | 4.915 |
| 81  | 16216 | 16217 | SN | 1 | 0.0 | 52.225 | 3.626 | 0.008 | 50.16  | 4.52  | 0.0 | 47.627 | 3.101 | 0.0 | 40.584 | 4.298 | 0.0 | 54.245 | 3.545 | 0.916 | 48.281 | 4.104 | 0.0 | 45.765 | 2.994 | 0.0 | 38.222 | 3.722 |
| 82  | 16216 | 16217 | SN | 1 | 0.0 | 42.035 | 0.911 | 0.0   | 42.914 | 1.195 | 0.0 | 38.989 | 0.924 | 0.0 | 38.947 | 1.446 | 0.0 | 41.833 | 0.907 | 0.0   | 40.599 | 1.019 | 0.0 | 39.128 | 0.868 | 0.0 | 39.955 | 1.173 |
| 83  | 16217 | 16218 | SN | 1 | 0.0 | 46.342 | 1.184 | 0.0   | 49.626 | 1.456 | 0.0 | 43.632 | 1.19  | 0.0 | 39.088 | 1.711 | 0.0 | 47.647 | 1.202 | 0.0   | 48.506 | 1.319 | 0.0 | 40.523 | 1.158 | 0.0 | 36.952 | 1.504 |
| 84  | 16217 | 16218 | NS | 1 | 0.0 | 46.596 | 0.655 | 0.0   | 40.555 | 0.836 | 0.0 | 40.9   | 0.688 | 0.0 | 41.257 | 1.042 | 0.0 | 47.954 | 0.644 | 0.0   | 39.039 | 0.752 | 0.0 | 43.173 | 0.651 | 0.0 | 41.104 | 0.809 |
| 85  | 16217 | 16218 | NS | 1 | 0.0 | 48.313 | 2.344 | 0.0   | 45.332 | 3.023 | 0.0 | 44.419 | 2.623 | 0.0 | 40.57  | 3.106 | 0.0 | 48.822 | 2.354 | 0.0   | 46.208 | 2.698 | 0.0 | 43.414 | 2.424 | 0.0 | 41.998 | 2.58  |
| 86  | 16217 | 16218 | SN | 1 | 0.0 | 49.108 | 4.85  | 0.0   | 47.833 | 5.663 | 0.0 | 48.237 | 4.0   | 0.0 | 46.924 | 5.148 | 0.0 | 48.551 | 4.911 | 0.0   | 49.396 | 5.155 | 0.0 | 48.741 | 3.936 | 0.0 | 42.426 | 4.451 |
| 87  | 16218 | 16219 | NS | 1 | 0.0 | 43.307 | 0.541 | 0.0   | 41.19  | 0.665 | 0.0 | 36.962 | 0.787 | 0.0 | 40.534 | 1.069 | 0.0 | 43.658 | 0.52  | 0.0   | 40.309 | 0.524 | 0.0 | 36.356 | 0.694 | 0.0 | 39.403 | 0.816 |
| 88  | 16218 | 16219 | SN | 1 | 0.0 | 51.029 | 1.44  | 0.0   | 48.98  | 1.899 | 0.0 | 40.08  | 1.342 | 0.0 | 41.556 | 1.887 | 0.0 | 52.362 | 1.477 | 0.0   | 49.846 | 1.809 | 0.0 | 39.198 | 1.321 | 0.0 | 41.023 | 1.72  |
| 89  | 16218 | 16219 | NS | 1 | 0.0 | 45.817 | 1.979 | 0.0   | 46.118 | 2.624 | 0.0 | 37.727 | 2.482 | 0.0 | 41.625 | 3.157 | 0.0 | 47.938 | 1.979 | 0.0   | 48.25  | 2.268 | 0.0 | 38.125 | 2.325 | 0.0 | 43.238 | 2.53  |
| 90  | 16218 | 16219 | NS | 1 | 0.0 | 43.307 | 0.538 | 0.0   | 41.19  | 0.662 | 0.0 | 36.962 | 0.783 | 0.0 | 40.534 | 1.066 | 0.0 | 43.658 | 0.52  | 0.0   | 40.309 | 0.522 | 0.0 | 36.356 | 0.69  | 0.0 | 39.403 | 0.813 |
| 91  | 16218 | 16219 | SN | 1 | 0.0 | 49.953 | 5.458 | 0.0   | 55.386 | 6.099 | 0.0 | 44.346 | 4.83  | 0.0 | 48.147 | 6.222 | 0.0 | 50.247 | 5.458 | 0.0   | 55.45  | 5.947 | 0.0 | 44.781 | 4.695 | 0.0 | 51.755 | 5.689 |
| 92  | 16218 | 16219 | NS | 1 | 0.0 | 45.817 | 1.989 | 0.0   | 46.118 | 2.63  | 0.0 | 37.727 | 2.494 | 0.0 | 41.625 | 3.158 | 0.0 | 47.938 | 1.989 | 0.0   | 48.25  | 2.273 | 0.0 | 38.125 | 2.337 | 0.0 | 43.238 | 2.536 |
| 93  | 16219 | 16220 | NS | 1 | 0.0 | 41.068 | 3.733 | 0.6   | 43.126 | 4.74  | 0.0 | 38.899 | 3.618 | 0.0 | 45.271 | 5.126 | 0.0 | 41.422 | 3.855 | 0.704 | 41.966 | 4.557 | 0.0 | 39.042 | 3.576 | 0.0 | 46.084 | 4.678 |
| 94  | 16219 | 16220 | NS | 1 | 0.0 | 48.325 | 1.064 | 0.0   | 40.278 | 1.485 | 0.0 | 40.253 | 1.288 | 0.0 | 45.624 | 1.807 | 0.0 | 47.221 | 1.057 | 0.0   | 41.697 | 1.431 | 0.0 | 42.992 | 1.232 | 0.0 | 44.451 | 1.566 |
| 95  | 16219 | 16220 | NS | 1 | 0.0 | 48.325 | 1.032 | 0.0   | 40.278 | 1.438 | 0.0 | 40.253 | 1.251 | 0.0 | 45.624 | 1.75  | 0.0 | 47.221 | 1.023 | 0.0   | 41.697 | 1.386 | 0.0 | 42.992 | 1.203 | 0.0 | 44.451 | 1.518 |
| 96  | 16219 | 16220 | NS | 1 | 0.0 | 48.382 | 1.028 | 0.0   | 40.34  | 1.453 | 0.0 | 39.077 | 1.263 | 0.0 | 45.542 | 1.786 | 0.0 | 47.278 | 1.003 | 0.0   | 41.706 | 1.379 | 0.0 | 38.827 | 1.215 | 0.0 | 44.369 | 1.564 |
| 97  | 16219 | 16220 | SN | 1 | 0.0 | 49.297 | 3.605 | 0.0   | 47.502 | 5.278 | 0.0 | 38.721 | 3.17  | 0.0 | 43.519 | 4.992 | 0.0 | 48.008 | 3.746 | 0.0   | 47.326 | 4.77  | 0.0 | 39.715 | 2.887 | 0.0 | 43.785 | 4.679 |
| 98  | 16219 | 16220 | SN | 1 | 0.0 | 49.297 | 3.605 | 0.0   | 47.502 | 5.278 | 0.0 | 38.721 | 3.17  | 0.0 | 43.519 | 4.992 | 0.0 | 48.008 | 3.746 | 0.0   | 47.326 | 4.77  | 0.0 | 39.715 | 2.887 | 0.0 | 43.785 | 4.679 |
| 99  | 16219 | 16220 | SN | 1 | 0.0 | 45.302 | 0.791 | 0.0   | 48.72  | 1.391 | 0.0 | 41.135 | 0.922 | 0.0 | 40.586 | 1.47  | 0.0 | 46.325 | 0.794 | 0.0   | 47.927 | 1.201 | 0.0 | 41.736 | 0.866 | 0.0 | 40.845 | 1.263 |
| 100 | 16219 | 16220 | SN | 1 | 0.0 | 45.302 | 0.791 | 0.0   | 48.72  | 1.391 | 0.0 | 41.135 | 0.922 | 0.0 | 40.586 | 1.47  | 0.0 | 46.325 | 0.794 | 0.0   | 47.927 | 1.201 | 0.0 | 41.736 | 0.866 | 0.0 | 40.845 | 1.263 |
| 101 | 16219 | 16220 | NS | 1 | 0.0 | 41.068 | 3.858 | 0.6   | 43.126 | 4.889 | 0.0 | 38.899 | 3.696 | 0.0 | 45.271 | 5.274 | 0.0 | 41.422 | 3.973 | 0.704 | 41.966 | 4.701 | 0.0 | 39.042 | 3.682 | 0.0 | 46.084 | 4.826 |
| 102 | 16219 | 16220 | NS | 1 | 0.0 | 41.07  | 3.794 | 0.6   | 43.189 | 4.811 | 0.0 | 41.641 | 3.583 | 0.0 | 45.261 | 5.076 | 0.0 | 41.424 | 3.855 | 0.704 | 42.031 | 4.669 | 0.0 | 41.529 | 3.54  | 0.0 | 46.076 | 4.642 |
| 103 | 16220 | 16221 | NS | 1 | 0.0 | 41.384 | 2.001 | 0.0   | 46.258 | 2.62  | 0.0 | 37.555 | 2.093 | 0.0 | 37.894 | 2.648 | 0.0 | 40.529 | 2.003 | 0.0   | 47.488 | 2.466 | 0.0 | 38.44  | 1.996 | 0.0 | 37.546 | 2.435 |

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



|     |       |       |    |   |     |        |       |       |        |        |     |        |       |     |        |       |     |        |       |       |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|
| 104 | 16220 | 16221 | SN | 1 | 0.0 | 47.139 | 4.913 | 0.0   | 45.172 | 6.326  | 0.0 | 45.708 | 4.77  | 0.0 | 42.934 | 6.197 | 0.0 | 47.314 | 5.035 | 0.0   | 45.828 | 6.255  | 0.0 | 46.102 | 4.685 | 0.0 | 44.323 | 5.891 |
| 105 | 16220 | 16221 | SN | 1 | 0.0 | 47.139 | 4.883 | 0.0   | 45.172 | 6.346  | 0.0 | 44.657 | 4.777 | 0.0 | 43.101 | 6.197 | 0.0 | 47.314 | 4.994 | 0.0   | 45.828 | 6.296  | 0.0 | 44.419 | 4.671 | 0.0 | 44.323 | 5.863 |
| 106 | 16220 | 16221 | NS | 1 | 0.0 | 38.961 | 2.139 | 0.0   | 45.372 | 2.738  | 0.0 | 39.032 | 2.239 | 0.0 | 39.04  | 2.846 | 0.0 | 39.942 | 2.093 | 0.0   | 46.6   | 2.658  | 0.0 | 38.974 | 2.164 | 0.0 | 38.219 | 2.618 |
| 107 | 16220 | 16221 | NS | 1 | 0.0 | 49.224 | 1.992 | 0.0   | 45.372 | 2.577  | 0.0 | 37.428 | 2.074 | 0.0 | 39.04  | 2.654 | 0.0 | 47.807 | 1.949 | 0.0   | 46.6   | 2.489  | 0.0 | 38.667 | 1.976 | 0.0 | 38.219 | 2.448 |
| 108 | 16220 | 16221 | NS | 1 | 0.0 | 46.832 | 7.304 | 0.503 | 50.058 | 8.497  | 0.0 | 42.799 | 6.604 | 0.0 | 49.136 | 8.346 | 0.0 | 46.462 | 7.314 | 0.728 | 49.849 | 8.334  | 0.0 | 42.896 | 6.547 | 0.0 | 44.667 | 7.862 |
| 109 | 16220 | 16221 | NS | 1 | 0.0 | 43.576 | 7.162 | 0.503 | 48.452 | 8.477  | 0.0 | 43.154 | 6.476 | 0.0 | 49.136 | 8.318 | 0.0 | 44.743 | 7.334 | 0.728 | 48.084 | 8.1    | 0.0 | 43.254 | 6.569 | 0.0 | 44.667 | 7.897 |
| 110 | 16220 | 16221 | SN | 1 | 0.0 | 42.431 | 1.333 | 0.0   | 51.141 | 1.922  | 0.0 | 36.115 | 1.429 | 0.0 | 43.754 | 2.29  | 0.0 | 42.303 | 1.354 | 0.0   | 48.99  | 1.902  | 0.0 | 35.897 | 1.394 | 0.0 | 41.511 | 2.056 |
| 111 | 16220 | 16221 | SN | 1 | 0.0 | 40.644 | 1.329 | 0.0   | 51.141 | 1.913  | 0.0 | 36.85  | 1.437 | 0.0 | 42.01  | 2.285 | 0.0 | 40.253 | 1.354 | 0.0   | 48.99  | 1.906  | 0.0 | 39.267 | 1.387 | 0.0 | 43.073 | 2.051 |
| 112 | 16220 | 16221 | NS | 1 | 0.0 | 43.576 | 7.635 | 0.503 | 48.452 | 9.077  | 0.0 | 43.154 | 6.902 | 0.0 | 49.136 | 8.851 | 0.0 | 44.743 | 7.853 | 0.728 | 48.084 | 8.674  | 0.0 | 43.254 | 7.016 | 0.0 | 44.667 | 8.424 |
| 113 | 16221 | 16222 | NS | 1 | 0.0 | 51.425 | 6.984 | 0.0   | 49.233 | 8.529  | 0.0 | 41.135 | 5.729 | 0.0 | 44.767 | 7.801 | 0.0 | 51.734 | 7.126 | 0.0   | 50.595 | 8.295  | 0.0 | 41.173 | 5.658 | 0.0 | 44.945 | 7.467 |
| 114 | 16221 | 16222 | SN | 1 | 0.0 | 40.429 | 1.133 | 0.0   | 41.412 | 1.762  | 0.0 | 42.188 | 1.279 | 0.0 | 38.298 | 2.117 | 0.0 | 39.699 | 1.166 | 0.0   | 39.122 | 1.646  | 0.0 | 43.173 | 1.219 | 0.0 | 36.098 | 1.786 |
| 115 | 16221 | 16222 | SN | 1 | 0.0 | 44.332 | 1.085 | 0.0   | 44.821 | 1.658  | 0.0 | 38.714 | 1.222 | 0.0 | 38.298 | 1.986 | 0.0 | 44.579 | 1.123 | 0.0   | 43.372 | 1.536  | 0.0 | 36.439 | 1.15  | 0.0 | 36.098 | 1.671 |
| 116 | 16221 | 16222 | NS | 1 | 0.0 | 50.318 | 1.754 | 0.0   | 42.264 | 2.302  | 0.0 | 37.892 | 1.727 | 0.0 | 44.387 | 2.382 | 0.0 | 50.787 | 1.786 | 0.0   | 42.511 | 2.266  | 0.0 | 35.679 | 1.724 | 0.0 | 39.592 | 2.196 |
| 117 | 16221 | 16222 | NS | 1 | 0.0 | 50.423 | 1.766 | 0.0   | 42.338 | 2.34   | 0.0 | 38.639 | 1.722 | 0.0 | 44.387 | 2.373 | 0.0 | 50.893 | 1.797 | 0.0   | 42.503 | 2.281  | 0.0 | 36.426 | 1.75  | 0.0 | 39.591 | 2.194 |
| 118 | 16221 | 16222 | SN | 1 | 0.0 | 46.675 | 3.941 | 0.0   | 49.714 | 5.27   | 0.0 | 42.428 | 4.103 | 0.0 | 42.31  | 5.955 | 0.0 | 47.149 | 4.093 | 0.0   | 47.181 | 4.894  | 0.0 | 40.867 | 4.011 | 0.0 | 41.892 | 5.322 |
| 119 | 16221 | 16222 | SN | 1 | 0.0 | 49.586 | 3.931 | 0.0   | 49.725 | 5.28   | 0.0 | 44.379 | 4.131 | 0.0 | 40.4   | 5.977 | 0.0 | 49.739 | 4.062 | 0.0   | 47.194 | 4.915  | 0.0 | 43.21  | 4.025 | 0.0 | 37.91  | 5.336 |
| 120 | 16221 | 16222 | SN | 1 | 0.0 | 47.428 | 3.704 | 0.0   | 46.667 | 5.346  | 0.0 | 39.469 | 4.091 | 0.0 | 42.061 | 6.258 | 0.0 | 49.474 | 3.837 | 0.0   | 44.806 | 5.001  | 0.0 | 38.542 | 4.075 | 0.0 | 40.172 | 5.619 |
| 121 | 16221 | 16222 | SN | 1 | 0.0 | 42.476 | 1.076 | 0.0   | 43.909 | 1.664  | 0.0 | 38.714 | 1.222 | 0.0 | 38.298 | 2.0   | 0.0 | 42.722 | 1.112 | 0.0   | 41.162 | 1.529  | 0.0 | 36.096 | 1.148 | 0.0 | 36.101 | 1.666 |
| 122 | 16221 | 16222 | NS | 1 | 0.0 | 50.423 | 1.983 | 0.0   | 42.338 | 2.674  | 0.0 | 38.639 | 1.866 | 0.0 | 44.387 | 2.701 | 0.0 | 50.893 | 2.014 | 0.0   | 42.503 | 2.597  | 0.0 | 36.426 | 1.916 | 0.0 | 39.591 | 2.495 |
| 123 | 16221 | 16222 | NS | 1 | 0.0 | 51.425 | 6.984 | 0.0   | 49.091 | 8.518  | 0.0 | 41.149 | 5.779 | 0.0 | 44.762 | 7.851 | 0.0 | 51.734 | 7.096 | 0.0   | 50.452 | 8.305  | 0.0 | 41.087 | 5.7   | 0.0 | 44.938 | 7.488 |
| 124 | 16221 | 16222 | NS | 1 | 0.0 | 51.425 | 7.729 | 0.0   | 49.233 | 9.763  | 0.0 | 41.135 | 6.352 | 0.0 | 44.767 | 8.827 | 0.0 | 51.734 | 7.867 | 0.0   | 50.595 | 9.429  | 0.0 | 41.173 | 6.263 | 0.0 | 44.945 | 8.52  |
| 125 | 16222 | 16223 | SN | 1 | 0.0 | 49.597 | 3.729 | 0.0   | 46.218 | 4.461  | 0.0 | 42.855 | 3.361 | 0.0 | 42.911 | 3.875 | 0.0 | 48.422 | 3.729 | 0.0   | 45.995 | 4.13   | 0.0 | 40.392 | 3.115 | 0.0 | 45.48  | 3.411 |
| 126 | 16222 | 16223 | SN | 1 | 0.0 | 46.014 | 3.697 | 0.0   | 46.268 | 4.241  | 0.0 | 42.764 | 3.376 | 0.0 | 46.605 | 3.73  | 0.0 | 46.027 | 3.633 | 0.0   | 46.045 | 3.921  | 0.0 | 41.725 | 3.145 | 0.0 | 46.116 | 3.272 |
| 127 | 16222 | 16223 | NS | 1 | 0.0 | 56.758 | 2.752 | 0.0   | 51.241 | 3.388  | 0.0 | 44.02  | 2.157 | 0.0 | 41.948 | 2.868 | 0.0 | 57.484 | 2.777 | 0.0   | 49.821 | 3.257  | 0.0 | 43.498 | 2.192 | 0.0 | 42.032 | 2.772 |
| 128 | 16222 | 16223 | SN | 1 | 0.0 | 45.545 | 0.985 | 0.0   | 40.485 | 1.3    | 0.0 | 36.76  | 0.997 | 0.0 | 36.687 | 1.186 | 0.0 | 46.417 | 0.93  | 0.0   | 39.534 | 1.181  | 0.0 | 37.462 | 0.9   | 0.0 | 37.269 | 1.003 |
| 129 | 16222 | 16223 | NS | 1 | 0.0 | 49.594 | 9.553 | 0.0   | 50.291 | 11.122 | 0.0 | 44.23  | 7.766 | 0.0 | 48.588 | 9.652 | 0.0 | 50.441 | 9.635 | 0.0   | 50.302 | 11.051 | 0.0 | 44.018 | 7.901 | 0.0 | 49.229 | 9.531 |
| 130 | 16222 | 16223 | NS | 1 | 0.0 | 48.907 | 9.574 | 0.0   | 50.291 | 11.092 | 0.0 | 44.402 | 7.816 | 0.0 | 47.578 | 9.652 | 0.0 | 50.44  | 9.655 | 0.0   | 49.406 | 11.072 | 0.0 | 44.189 | 7.937 | 0.0 | 49.192 | 9.617 |
| 131 | 16222 | 16223 | NS | 1 | 0.0 | 52.85  | 2.755 | 0.0   | 51.06  | 3.386  | 0.0 | 38.138 | 2.169 | 0.0 | 45.293 | 2.873 | 0.0 | 51.74  | 2.789 | 0.0   | 50.533 | 3.266  | 0.0 | 39.355 | 2.181 | 0.0 | 44.586 | 2.781 |
| 132 | 16222 | 16223 | SN | 1 | 0.0 | 52.318 | 0.97  | 0.0   | 41.398 | 1.256  | 0.0 | 36.896 | 0.995 | 0.0 | 39.674 | 1.155 | 0.0 | 52.325 | 0.928 | 0.0   | 40.312 | 1.139  | 0.0 | 38.521 | 0.906 | 0.0 | 38.617 | 0.95  |
| 133 | 16223 | 16224 | SN | 1 | 0.0 | 45.508 | 3.069 | 0.0   | 51.688 | 3.982  | 0.0 | 44.674 | 3.228 | 0.0 | 44.246 | 3.658 | 0.0 | 45.917 | 3.201 | 0.0   | 50.464 | 3.687  | 0.0 | 46.92  | 3.249 | 0.0 | 43.557 | 3.359 |
| 134 | 16223 | 16224 | SN | 1 | 0.0 | 49.515 | 1.008 | 0.0   | 40.418 | 1.235  | 0.0 | 35.409 | 0.948 | 0.0 | 41.525 | 1.253 | 0.0 | 48.834 | 0.991 | 0.0   | 41.136 | 1.106  | 0.0 | 35.672 | 0.87  | 0.0 | 43.369 | 1.103 |
| 135 | 16223 | 16224 | SN | 1 | 0.0 | 47.754 | 0.999 | 0.0   | 41.695 | 1.229  | 0.0 | 39.082 | 0.967 | 0.0 | 39.134 | 1.265 | 0.0 | 48.411 | 0.99  | 0.0   | 40.854 | 1.111  | 0.0 | 39.594 | 0.878 | 0.0 | 38.664 | 1.111 |
| 136 | 16223 | 16224 | SN | 1 | 0.0 | 49.515 | 0.992 | 0.0   | 40.207 | 1.238  | 0.0 | 35.409 | 0.933 | 0.0 | 41.525 | 1.274 | 0.0 | 48.834 | 0.976 | 0.0   | 41.136 | 1.111  | 0.0 | 35.672 | 0.857 | 0.0 | 43.369 | 1.119 |
| 137 | 16223 | 16224 | NS | 1 | 0.0 | 48.925 | 1.25  | 0.0   | 43.893 | 1.712  | 0.0 | 39.083 | 1.086 | 0.0 | 44.851 | 1.573 | 0.0 | 48.506 | 1.25  | 0.0   | 46.474 | 1.637  | 0.0 | 37.686 | 1.049 | 0.0 | 44.563 | 1.416 |
| 138 | 16223 | 16224 | SN | 1 | 0.0 | 45.739 | 3.106 | 0.0   | 51.647 | 3.847  | 0.0 | 40.465 | 3.3   | 0.0 | 45.486 | 3.57  | 0.0 | 46.147 | 3.26  | 0.0   | 50.42  | 3.693  | 0.0 | 40.442 | 3.314 | 0.0 | 44.806 | 3.216 |
| 139 | 16223 | 16224 | NS | 1 | 0.0 | 53.505 | 4.619 | 0.0   | 51.121 | 6.223  | 0.0 | 42.792 | 4.061 | 0.0 | 48.624 | 5.193 | 0.0 | 53.947 | 4.721 | 0.0   | 54.425 | 5.947  | 0.0 | 42.882 | 4.011 | 0.0 | 49.697 | 4.548 |

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

|     |       |       |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 140 | 16223 | 16224 | NS | 1 | 0.0 | 53.505 | 4.619 | 0.0 | 51.121 | 6.223 | 0.0 | 42.792 | 4.061 | 0.0 | 48.624 | 5.193 | 0.0 | 53.947 | 4.721 | 0.0 | 54.425 | 5.947 | 0.0 | 42.882 | 4.011 | 0.0 | 49.697 | 4.548 |
| 141 | 16223 | 16224 | SN | 1 | 0.0 | 45.739 | 3.059 | 0.0 | 51.647 | 3.921 | 0.0 | 40.465 | 3.249 | 0.0 | 45.486 | 3.658 | 0.0 | 46.147 | 3.211 | 0.0 | 50.42  | 3.758 | 0.0 | 40.442 | 3.264 | 0.0 | 44.806 | 3.288 |
| 142 | 16223 | 16224 | NS | 1 | 0.0 | 48.925 | 1.25  | 0.0 | 43.893 | 1.712 | 0.0 | 39.083 | 1.086 | 0.0 | 44.851 | 1.573 | 0.0 | 48.506 | 1.25  | 0.0 | 46.474 | 1.637 | 0.0 | 37.686 | 1.049 | 0.0 | 44.563 | 1.416 |
| 143 | 16224 | 16225 | SN | 1 | 0.0 | 37.246 | 0.735 | 0.0 | 41.074 | 1.007 | 0.0 | 36.755 | 1.005 | 0.0 | 36.712 | 1.442 | 0.0 | 37.127 | 0.697 | 0.0 | 41.701 | 0.82  | 0.0 | 35.083 | 0.919 | 0.0 | 36.688 | 1.158 |
| 144 | 16224 | 16225 | NS | 1 | 0.0 | 41.115 | 0.805 | 0.0 | 45.14  | 1.076 | 0.0 | 37.108 | 0.749 | 0.0 | 45.756 | 1.253 | 0.0 | 39.966 | 0.8   | 0.0 | 45.886 | 0.974 | 0.0 | 37.222 | 0.644 | 0.0 | 46.047 | 1.056 |
| 145 | 16224 | 16225 | SN | 1 | 0.0 | 43.239 | 2.805 | 0.0 | 49.162 | 2.883 | 0.0 | 43.013 | 3.05  | 0.0 | 39.855 | 4.011 | 0.0 | 44.581 | 2.612 | 0.0 | 48.8   | 2.69  | 0.0 | 42.892 | 2.816 | 0.0 | 39.521 | 3.335 |
| 146 | 16224 | 16225 | NS | 1 | 0.0 | 44.4   | 3.218 | 0.0 | 51.63  | 3.946 | 0.0 | 37.897 | 2.617 | 0.0 | 51.37  | 3.834 | 0.0 | 43.929 | 3.177 | 0.0 | 51.564 | 3.651 | 0.0 | 37.937 | 2.503 | 0.0 | 49.647 | 3.199 |
| 147 | 16224 | 16225 | NS | 1 | 0.0 | 44.4   | 3.228 | 0.0 | 51.63  | 3.956 | 0.0 | 37.897 | 2.617 | 0.0 | 51.531 | 3.777 | 0.0 | 45.338 | 3.197 | 0.0 | 51.564 | 3.651 | 0.0 | 37.911 | 2.489 | 0.0 | 49.809 | 3.235 |
| 148 | 16224 | 16225 | SN | 1 | 0.0 | 37.246 | 0.739 | 0.0 | 41.074 | 1.02  | 0.0 | 36.755 | 1.007 | 0.0 | 36.712 | 1.46  | 0.0 | 37.127 | 0.7   | 0.0 | 41.701 | 0.83  | 0.0 | 35.083 | 0.921 | 0.0 | 36.688 | 1.169 |
| 149 | 16224 | 16225 | SN | 1 | 0.0 | 43.239 | 2.762 | 0.0 | 49.162 | 2.92  | 0.0 | 43.013 | 3.058 | 0.0 | 39.855 | 4.049 | 0.0 | 44.581 | 2.567 | 0.0 | 48.8   | 2.724 | 0.0 | 42.892 | 2.835 | 0.0 | 39.521 | 3.35  |
| 150 | 16224 | 16225 | SN | 1 | 0.0 | 43.239 | 2.77  | 0.0 | 49.162 | 2.92  | 0.0 | 43.013 | 3.054 | 0.0 | 39.855 | 4.049 | 0.0 | 44.581 | 2.565 | 0.0 | 48.8   | 2.724 | 0.0 | 42.892 | 2.832 | 0.0 | 39.521 | 3.35  |
| 151 | 16224 | 16225 | SN | 1 | 0.0 | 37.246 | 0.738 | 0.0 | 41.074 | 1.02  | 0.0 | 36.755 | 1.008 | 0.0 | 36.712 | 1.46  | 0.0 | 37.127 | 0.699 | 0.0 | 41.701 | 0.83  | 0.0 | 35.083 | 0.922 | 0.0 | 36.688 | 1.169 |
| 152 | 16224 | 16225 | NS | 1 | 0.0 | 41.115 | 0.8   | 0.0 | 45.14  | 1.071 | 0.0 | 37.108 | 0.753 | 0.0 | 45.595 | 1.265 | 0.0 | 39.966 | 0.786 | 0.0 | 45.886 | 0.994 | 0.0 | 37.222 | 0.641 | 0.0 | 45.885 | 1.07  |
| 153 | 16225 | 16226 | SN | 1 | 0.0 | 46.62  | 3.718 | 0.0 | 41.175 | 4.75  | 0.0 | 42.908 | 3.557 | 0.0 | 43.011 | 4.566 | 0.0 | 47.144 | 3.728 | 0.0 | 45.077 | 4.263 | 0.0 | 45.584 | 3.393 | 0.0 | 40.694 | 3.997 |
| 154 | 16225 | 16226 | NS | 1 | 0.0 | 42.194 | 1.223 | 0.0 | 49.786 | 1.713 | 0.0 | 38.7   | 1.294 | 0.0 | 45.814 | 1.861 | 0.0 | 42.424 | 1.223 | 0.0 | 48.521 | 1.566 | 0.0 | 40.693 | 1.241 | 0.0 | 44.728 | 1.592 |
| 155 | 16225 | 16226 | SN | 1 | 0.0 | 35.221 | 0.889 | 0.0 | 38.028 | 1.314 | 0.0 | 38.448 | 1.072 | 0.0 | 41.634 | 1.703 | 0.0 | 35.593 | 0.869 | 0.0 | 37.84  | 1.178 | 0.0 | 35.494 | 1.017 | 0.0 | 38.135 | 1.383 |
| 156 | 16225 | 16226 | NS | 1 | 0.0 | 47.02  | 3.573 | 0.0 | 48.896 | 4.78  | 0.0 | 47.112 | 4.16  | 0.0 | 42.696 | 5.537 | 0.0 | 46.435 | 3.522 | 0.0 | 48.414 | 4.332 | 0.0 | 44.922 | 4.231 | 0.0 | 42.362 | 4.967 |
| 157 | 16226 | 16227 | NS | 1 | 0.0 | 47.595 | 0.883 | 0.0 | 47.621 | 1.141 | 0.0 | 43.039 | 0.807 | 0.0 | 46.712 | 1.027 | 0.0 | 47.367 | 0.899 | 0.0 | 48.294 | 1.123 | 0.0 | 41.282 | 0.8   | 0.0 | 41.937 | 0.94  |
| 158 | 16226 | 16227 | SN | 1 | 0.0 | 44.182 | 5.875 | 0.0 | 45.986 | 7.615 | 0.0 | 43.545 | 5.17  | 0.0 | 39.165 | 6.311 | 0.0 | 44.192 | 5.885 | 0.0 | 44.262 | 7.062 | 0.0 | 44.176 | 5.273 | 0.0 | 39.18  | 5.916 |
| 159 | 16226 | 16227 | NS | 1 | 0.0 | 53.738 | 3.328 | 0.0 | 51.69  | 4.039 | 0.0 | 42.259 | 2.971 | 0.0 | 47.423 | 3.755 | 0.0 | 54.352 | 3.297 | 0.0 | 52.551 | 3.927 | 0.0 | 44.291 | 2.9   | 0.0 | 44.95  | 3.285 |
| 160 | 16226 | 16227 | NS | 1 | 0.0 | 53.412 | 3.338 | 0.0 | 51.69  | 4.039 | 0.0 | 42.259 | 2.957 | 0.0 | 47.422 | 3.741 | 0.0 | 54.027 | 3.297 | 0.0 | 52.551 | 3.927 | 0.0 | 44.291 | 2.9   | 0.0 | 44.919 | 3.271 |
| 161 | 16226 | 16227 | SN | 1 | 0.0 | 44.182 | 5.926 | 0.0 | 45.986 | 7.413 | 0.0 | 44.64  | 5.059 | 0.0 | 39.165 | 6.147 | 0.0 | 44.192 | 5.926 | 0.0 | 44.262 | 6.834 | 0.0 | 47.03  | 5.187 | 0.0 | 39.18  | 5.806 |
| 162 | 16226 | 16227 | SN | 1 | 0.0 | 41.594 | 5.987 | 0.0 | 45.986 | 7.413 | 0.0 | 43.545 | 5.151 | 0.0 | 42.258 | 6.211 | 0.0 | 42.045 | 5.947 | 0.0 | 42.749 | 6.814 | 0.0 | 42.155 | 5.265 | 0.0 | 43.647 | 5.792 |
| 163 | 16226 | 16227 | SN | 1 | 0.0 | 38.557 | 1.596 | 0.0 | 43.064 | 2.133 | 0.0 | 38.663 | 1.642 | 0.0 | 37.728 | 2.182 | 0.0 | 39.015 | 1.619 | 0.0 | 39.685 | 1.968 | 0.0 | 38.345 | 1.597 | 0.0 | 37.895 | 1.917 |
| 164 | 16226 | 16227 | NS | 1 | 0.0 | 47.595 | 0.883 | 0.0 | 47.621 | 1.148 | 0.0 | 43.039 | 0.802 | 0.0 | 46.712 | 1.027 | 0.0 | 47.367 | 0.897 | 0.0 | 48.294 | 1.123 | 0.0 | 41.282 | 0.795 | 0.0 | 41.937 | 0.94  |
| 165 | 16226 | 16227 | SN | 1 | 0.0 | 38.557 | 1.592 | 0.0 | 43.064 | 2.06  | 0.0 | 38.663 | 1.64  | 0.0 | 37.728 | 2.12  | 0.0 | 39.015 | 1.608 | 0.0 | 42.497 | 1.909 | 0.0 | 38.345 | 1.587 | 0.0 | 37.895 | 1.85  |
| 166 | 16226 | 16227 | SN | 1 | 0.0 | 43.506 | 1.615 | 0.0 | 43.064 | 2.076 | 0.0 | 40.084 | 1.65  | 0.0 | 37.728 | 2.127 | 0.0 | 44.222 | 1.603 | 0.0 | 42.492 | 1.934 | 0.0 | 36.625 | 1.588 | 0.0 | 37.895 | 1.856 |
| 167 | 16227 | 16228 | SN | 1 | 0.0 | 47.377 | 1.865 | 0.0 | 43.305 | 2.486 | 0.0 | 39.998 | 1.946 | 0.0 | 39.939 | 2.846 | 0.0 | 49.383 | 1.85  | 0.0 | 42.466 | 2.329 | 0.0 | 39.505 | 1.861 | 0.0 | 38.413 | 2.583 |
| 168 | 16227 | 16228 | NS | 1 | 0.0 | 44.615 | 1.441 | 0.0 | 43.254 | 1.744 | 0.0 | 38.277 | 1.419 | 0.0 | 43.741 | 1.777 | 0.0 | 44.869 | 1.427 | 0.0 | 43.024 | 1.597 | 0.0 | 38.075 | 1.341 | 0.0 | 40.215 | 1.446 |
| 169 | 16227 | 16228 | NS | 1 | 0.0 | 43.706 | 1.409 | 0.0 | 45.652 | 1.726 | 0.0 | 40.222 | 1.471 | 0.0 | 40.369 | 1.755 | 0.0 | 43.045 | 1.414 | 0.0 | 45.831 | 1.559 | 0.0 | 41.56  | 1.419 | 0.0 | 40.164 | 1.416 |
| 170 | 16227 | 16228 | SN | 1 | 0.0 | 52.185 | 7.412 | 0.0 | 42.598 | 8.596 | 0.0 | 42.162 | 6.309 | 0.0 | 38.686 | 8.309 | 0.0 | 51.336 | 7.454 | 0.0 | 43.477 | 8.341 | 0.0 | 41.968 | 6.339 | 0.0 | 39.821 | 8.116 |
| 171 | 16227 | 16228 | SN | 1 | 0.0 | 47.377 | 1.87  | 0.0 | 45.335 | 2.461 | 0.0 | 39.998 | 1.939 | 0.0 | 40.188 | 2.837 | 0.0 | 49.383 | 1.852 | 0.0 | 43.116 | 2.302 | 0.0 | 39.505 | 1.865 | 0.0 | 39.719 | 2.597 |
| 172 | 16227 | 16228 | NS | 1 | 0.0 | 50.135 | 4.89  | 0.0 | 51.555 | 5.707 | 0.0 | 42.925 | 4.535 | 0.0 | 41.605 | 5.544 | 0.0 | 51.881 | 4.89  | 0.0 | 49.181 | 5.209 | 0.0 | 43.637 | 4.429 | 0.0 | 43.901 | 4.91  |
| 173 | 16227 | 16228 | SN | 1 | 0.0 | 47.377 | 1.929 | 0.0 | 43.305 | 2.589 | 0.0 | 39.998 | 2.004 | 0.0 | 39.939 | 2.969 | 0.0 | 49.383 | 1.919 | 0.0 | 42.466 | 2.415 | 0.0 | 39.505 | 1.941 | 0.0 | 39.359 | 2.723 |
| 174 | 16227 | 16228 | NS | 1 | 0.0 | 47.873 | 5.028 | 0.0 | 48.124 | 5.537 | 0.0 | 44.558 | 4.656 | 0.0 | 44.645 | 5.258 | 0.0 | 47.276 | 5.14  | 0.0 | 47.551 | 5.273 | 0.0 | 42.657 | 4.485 | 0.0 | 41.346 | 4.718 |
| 175 | 16227 | 16228 | SN | 1 | 0.0 | 52.185 | 7.183 | 0.0 | 42.598 | 8.266 | 0.0 | 42.162 | 6.11  | 0.0 | 38.686 | 7.976 | 0.0 | 51.336 | 7.213 | 0.0 | 43.477 | 8.012 | 0.0 | 41.968 | 6.138 | 0.0 | 39.821 | 7.826 |

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

|     |       |       |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 176 | 16227 | 16228 | SN | 1 | 0.0 | 52.185 | 7.162 | 0.0 | 43.234 | 8.255 | 0.0 | 42.168 | 6.053 | 0.0 | 41.392 | 7.969 | 0.0 | 51.336 | 7.193 | 0.0 | 44.556 | 8.002  | 0.0 | 41.968 | 6.081 | 0.0 | 39.821 | 7.812 |
| 177 | 16228 | 16229 | NS | 1 | 0.0 | 44.985 | 3.929 | 0.0 | 47.626 | 5.856 | 0.0 | 40.917 | 4.139 | 0.0 | 45.986 | 4.545 | 0.0 | 46.856 | 4.031 | 0.0 | 49.441 | 5.561  | 0.0 | 40.554 | 3.869 | 0.0 | 45.056 | 4.032 |
| 178 | 16228 | 16229 | SN | 1 | 0.0 | 52.548 | 8.234 | 0.0 | 51.442 | 9.853 | 0.0 | 46.956 | 6.208 | 0.0 | 43.494 | 7.864 | 0.0 | 52.672 | 8.224 | 0.0 | 49.004 | 9.548  | 0.0 | 46.772 | 6.073 | 0.0 | 43.165 | 7.9   |
| 179 | 16228 | 16229 | SN | 1 | 0.0 | 55.25  | 8.315 | 0.0 | 49.911 | 9.893 | 0.0 | 45.525 | 6.243 | 0.0 | 41.97  | 7.836 | 0.0 | 55.692 | 8.254 | 0.0 | 48.242 | 9.538  | 0.0 | 45.904 | 6.165 | 0.0 | 44.273 | 7.871 |
| 180 | 16228 | 16229 | SN | 1 | 0.0 | 49.942 | 2.194 | 0.0 | 47.077 | 2.903 | 0.0 | 42.555 | 1.753 | 0.0 | 40.262 | 2.465 | 0.0 | 51.98  | 2.228 | 0.0 | 46.398 | 2.799  | 0.0 | 41.329 | 1.76  | 0.0 | 40.542 | 2.31  |
| 181 | 16228 | 16229 | NS | 1 | 0.0 | 39.548 | 1.062 | 0.0 | 43.785 | 1.602 | 0.0 | 38.553 | 1.186 | 0.0 | 38.936 | 1.603 | 0.0 | 40.334 | 1.058 | 0.0 | 44.607 | 1.464  | 0.0 | 37.159 | 1.127 | 0.0 | 39.978 | 1.359 |
| 182 | 16228 | 16229 | NS | 1 | 0.0 | 39.555 | 1.062 | 0.0 | 40.982 | 1.606 | 0.0 | 36.859 | 1.198 | 0.0 | 40.254 | 1.605 | 0.0 | 40.34  | 1.062 | 0.0 | 41.672 | 1.457  | 0.0 | 35.814 | 1.141 | 0.0 | 39.9   | 1.33  |
| 183 | 16228 | 16229 | NS | 1 | 0.0 | 45.626 | 3.95  | 0.0 | 47.626 | 5.826 | 0.0 | 40.878 | 4.16  | 0.0 | 46.839 | 4.552 | 0.0 | 47.857 | 4.071 | 0.0 | 49.354 | 5.531  | 0.0 | 40.515 | 3.883 | 0.0 | 45.911 | 4.082 |
| 184 | 16228 | 16229 | SN | 1 | 0.0 | 49.942 | 2.328 | 0.0 | 47.077 | 3.076 | 0.0 | 42.555 | 1.825 | 0.0 | 40.262 | 2.599 | 0.0 | 51.98  | 2.357 | 0.0 | 46.398 | 2.972  | 0.0 | 41.329 | 1.838 | 0.0 | 39.525 | 2.451 |
| 185 | 16228 | 16229 | SN | 1 | 0.0 | 55.25  | 8.837 | 0.0 | 49.911 | 10.38 | 0.0 | 45.525 | 6.543 | 0.0 | 41.97  | 8.281 | 0.0 | 55.692 | 8.772 | 0.0 | 48.242 | 10.033 | 0.0 | 45.904 | 6.468 | 0.0 | 44.273 | 8.357 |
| 186 | 16228 | 16229 | SN | 1 | 0.0 | 50.305 | 2.178 | 0.0 | 47.878 | 2.92  | 0.0 | 41.619 | 1.762 | 0.0 | 45.606 | 2.442 | 0.0 | 50.252 | 2.2   | 0.0 | 48.854 | 2.779  | 0.0 | 42.574 | 1.739 | 0.0 | 41.903 | 2.282 |
| 187 | 16229 | 16230 | SN | 1 | 0.0 | 53.744 | 7.089 | 0.0 | 49.574 | 8.415 | 0.0 | 46.424 | 6.05  | 0.0 | 49.663 | 6.906 | 0.0 | 54.808 | 7.17  | 0.0 | 50.237 | 8.272  | 0.0 | 48.553 | 6.234 | 0.0 | 48.76  | 6.699 |
| 188 | 16229 | 16230 | NS | 1 | 0.0 | 37.943 | 2.872 | 0.0 | 47.425 | 4.038 | 0.0 | 44.964 | 3.342 | 0.0 | 42.334 | 4.09  | 0.0 | 37.997 | 2.872 | 0.0 | 48.375 | 3.763  | 0.0 | 43.769 | 3.185 | 0.0 | 42.301 | 3.705 |
| 189 | 16229 | 16230 | SN | 1 | 0.0 | 53.744 | 7.089 | 0.0 | 49.574 | 8.415 | 0.0 | 46.424 | 6.05  | 0.0 | 49.663 | 6.906 | 0.0 | 54.808 | 7.17  | 0.0 | 50.237 | 8.272  | 0.0 | 48.553 | 6.234 | 0.0 | 48.76  | 6.699 |
| 190 | 16229 | 16230 | SN | 1 | 0.0 | 50.516 | 2.453 | 0.0 | 51.517 | 3.07  | 0.0 | 40.646 | 1.679 | 0.0 | 43.299 | 2.192 | 0.0 | 51.378 | 2.433 | 0.0 | 52.104 | 2.907  | 0.0 | 39.725 | 1.677 | 0.0 | 39.918 | 2.032 |
| 191 | 16229 | 16230 | NS | 1 | 0.0 | 37.943 | 2.893 | 0.0 | 39.829 | 4.058 | 0.0 | 46.713 | 3.32  | 0.0 | 42.334 | 4.069 | 0.0 | 37.997 | 2.913 | 0.0 | 39.3   | 3.773  | 0.0 | 45.518 | 3.15  | 0.0 | 40.871 | 3.677 |
| 192 | 16229 | 16230 | SN | 1 | 0.0 | 50.516 | 2.248 | 0.0 | 51.517 | 2.816 | 0.0 | 40.646 | 1.554 | 0.0 | 43.299 | 2.02  | 0.0 | 51.378 | 2.23  | 0.0 | 52.104 | 2.669  | 0.0 | 39.725 | 1.542 | 0.0 | 39.918 | 1.864 |
| 193 | 16229 | 16230 | NS | 1 | 0.0 | 43.656 | 0.901 | 0.0 | 37.113 | 1.141 | 0.0 | 34.585 | 1.061 | 0.0 | 43.879 | 1.333 | 0.0 | 45.247 | 0.899 | 0.0 | 35.808 | 1.037  | 0.0 | 34.198 | 0.937 | 0.0 | 39.207 | 1.063 |
| 194 | 16229 | 16230 | NS | 1 | 0.0 | 42.925 | 0.879 | 0.0 | 42.758 | 1.137 | 0.0 | 36.899 | 1.033 | 0.0 | 43.879 | 1.358 | 0.0 | 44.518 | 0.863 | 0.0 | 40.277 | 1.044  | 0.0 | 35.722 | 0.903 | 0.0 | 39.207 | 1.1   |
| 195 | 16229 | 16230 | SN | 1 | 0.0 | 53.744 | 7.71  | 0.0 | 49.574 | 9.065 | 0.0 | 46.424 | 6.582 | 0.0 | 49.663 | 7.486 | 0.0 | 54.808 | 7.799 | 0.0 | 50.237 | 8.931  | 0.0 | 48.553 | 6.799 | 0.0 | 48.76  | 7.268 |
| 196 | 16229 | 16230 | SN | 1 | 0.0 | 50.516 | 2.248 | 0.0 | 51.517 | 2.816 | 0.0 | 40.646 | 1.554 | 0.0 | 43.299 | 2.02  | 0.0 | 51.378 | 2.23  | 0.0 | 52.104 | 2.669  | 0.0 | 39.725 | 1.542 | 0.0 | 39.918 | 1.864 |
| 197 | 16230 | 16231 | SN | 1 | 0.0 | 43.845 | 1.064 | 0.0 | 42.168 | 1.506 | 0.0 | 40.16  | 1.078 | 0.0 | 44.803 | 1.442 | 0.0 | 43.629 | 1.064 | 0.0 | 41.052 | 1.463  | 0.0 | 38.317 | 1.048 | 0.0 | 43.307 | 1.286 |
| 198 | 16230 | 16231 | NS | 1 | 0.0 | 43.047 | 3.448 | 0.0 | 46.053 | 5.085 | 0.0 | 43.423 | 3.64  | 0.0 | 43.891 | 5.304 | 0.0 | 43.184 | 3.732 | 0.0 | 46.31  | 4.832  | 0.0 | 42.909 | 3.661 | 0.0 | 41.319 | 4.842 |
| 199 | 16230 | 16231 | NS | 1 | 0.0 | 40.533 | 0.982 | 0.0 | 46.082 | 1.521 | 0.0 | 38.947 | 1.008 | 0.0 | 38.612 | 1.644 | 0.0 | 42.595 | 0.98  | 0.0 | 44.497 | 1.354  | 0.0 | 36.136 | 0.968 | 0.0 | 42.956 | 1.52  |
| 200 | 16230 | 16231 | SN | 1 | 0.0 | 49.829 | 4.507 | 0.0 | 48.311 | 5.268 | 0.0 | 49.963 | 3.837 | 0.0 | 48.433 | 4.552 | 0.0 | 49.524 | 4.517 | 0.0 | 47.365 | 5.166  | 0.0 | 52.567 | 3.766 | 0.0 | 44.286 | 4.218 |
| 201 | 16230 | 16231 | SN | 1 | 0.0 | 49.829 | 4.507 | 0.0 | 48.311 | 5.278 | 0.0 | 49.315 | 3.809 | 0.0 | 48.435 | 4.538 | 0.0 | 49.524 | 4.507 | 0.0 | 47.364 | 5.166  | 0.0 | 51.92  | 3.759 | 0.0 | 44.286 | 4.225 |
| 202 | 16230 | 16231 | SN | 1 | 0.0 | 43.604 | 1.064 | 0.0 | 42.174 | 1.506 | 0.0 | 40.505 | 1.076 | 0.0 | 44.803 | 1.449 | 0.0 | 43.625 | 1.066 | 0.0 | 41.058 | 1.459  | 0.0 | 38.978 | 1.05  | 0.0 | 43.307 | 1.289 |
| 203 | 16230 | 16231 | NS | 1 | 0.0 | 41.738 | 1.003 | 0.0 | 39.356 | 1.516 | 0.0 | 41.192 | 1.036 | 0.0 | 53.72  | 1.666 | 0.0 | 40.175 | 1.021 | 0.0 | 41.041 | 1.369  | 0.0 | 42.775 | 1.017 | 0.0 | 48.449 | 1.439 |
| 204 | 16230 | 16231 | NS | 1 | 0.0 | 44.113 | 3.522 | 0.0 | 46.41  | 5.197 | 0.0 | 46.891 | 3.768 | 0.0 | 38.675 | 4.938 | 0.0 | 44.908 | 3.512 | 0.0 | 45.173 | 4.811  | 0.0 | 47.331 | 3.768 | 0.0 | 43.05  | 4.425 |
| 205 | 16231 | 16232 | SN | 1 | 0.0 | 36.619 | 0.781 | 0.0 | 40.692 | 1.181 | 0.0 | 39.025 | 0.847 | 0.0 | 44.233 | 1.323 | 0.0 | 37.031 | 0.769 | 0.0 | 40.617 | 1.059  | 0.0 | 37.049 | 0.76  | 0.0 | 38.429 | 1.146 |
| 206 | 16231 | 16232 | NS | 1 | 0.0 | 46.791 | 0.994 | 0.0 | 39.761 | 1.331 | 0.0 | 45.957 | 0.905 | 0.0 | 41.712 | 1.237 | 0.0 | 45.883 | 0.994 | 0.0 | 39.148 | 1.196  | 0.0 | 47.315 | 0.837 | 0.0 | 38.078 | 0.999 |
| 207 | 16231 | 16232 | SN | 1 | 0.0 | 46.048 | 3.019 | 0.0 | 48.259 | 3.93  | 0.0 | 37.717 | 2.782 | 0.0 | 40.36  | 3.949 | 0.0 | 47.39  | 2.989 | 0.0 | 46.621 | 3.483  | 0.0 | 34.85  | 2.768 | 0.0 | 41.308 | 3.394 |
| 208 | 16231 | 16232 | NS | 1 | 0.0 | 49.034 | 4.473 | 0.0 | 41.801 | 5.512 | 0.0 | 47.954 | 3.171 | 0.0 | 42.983 | 4.152 | 0.0 | 50.027 | 4.584 | 0.0 | 42.618 | 5.126  | 0.0 | 46.165 | 2.9   | 0.0 | 42.718 | 3.683 |
| 209 | 16231 | 16232 | NS | 1 | 0.0 | 47.597 | 4.452 | 0.0 | 52.402 | 5.522 | 0.0 | 45.485 | 3.121 | 0.0 | 43.941 | 4.195 | 0.0 | 49.373 | 4.554 | 0.0 | 53.54  | 5.106  | 0.0 | 44.759 | 2.9   | 0.0 | 42.807 | 3.768 |
| 210 | 16231 | 16232 | NS | 1 | 0.0 | 45.615 | 1.01  | 0.0 | 39.22  | 1.313 | 0.0 | 40.926 | 0.899 | 0.0 | 41.556 | 1.205 | 0.0 | 44.707 | 1.01  | 0.0 | 39.148 | 1.18   | 0.0 | 40.34  | 0.843 | 0.0 | 39.923 | 0.996 |
| 211 | 16232 | 16233 | NS | 1 | 0.0 | 47.886 | 0.887 | 0.0 | 44.018 | 1.335 | 0.0 | 40.394 | 1.034 | 0.0 | 42.679 | 1.353 | 0.0 | 48.148 | 0.899 | 0.0 | 42.948 | 1.179  | 0.0 | 37.897 | 0.97  | 0.0 | 39.607 | 1.169 |

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

|     |       |       |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 212 | 16232 | 16233 | NS | 1 | 0.0 | 51.342 | 2.839 | 0.0 | 46.477 | 4.452 | 0.0 | 35.977 | 3.206 | 0.0 | 40.995 | 4.15  | 0.0 | 51.765 | 2.95  | 0.0 | 47.17  | 4.168 | 0.0 | 35.651 | 3.035 | 0.0 | 40.193 | 3.723 |
| 213 | 16232 | 16233 | SN | 1 | 0.0 | 51.541 | 4.426 | 0.0 | 55.967 | 5.434 | 0.0 | 52.086 | 4.98  | 0.0 | 47.385 | 5.857 | 0.0 | 50.804 | 4.517 | 0.0 | 55.756 | 5.119 | 0.0 | 52.668 | 4.647 | 0.0 | 48.559 | 5.202 |
| 214 | 16232 | 16233 | SN | 1 | 0.0 | 52.132 | 1.184 | 0.0 | 47.225 | 1.586 | 0.0 | 41.302 | 1.386 | 0.0 | 40.85  | 1.778 | 0.0 | 53.014 | 1.215 | 0.0 | 45.81  | 1.455 | 0.0 | 40.859 | 1.296 | 0.0 | 38.714 | 1.489 |
| 215 | 16233 | 16234 | SN | 1 | 0.0 | 49.991 | 3.819 | 0.0 | 45.341 | 4.498 | 0.0 | 44.892 | 3.563 | 0.0 | 46.879 | 4.653 | 0.0 | 50.946 | 3.88  | 0.0 | 45.095 | 4.245 | 0.0 | 45.84  | 3.343 | 0.0 | 45.568 | 3.757 |
| 216 | 16233 | 16234 | NS | 1 | 0.0 | 38.367 | 1.068 | 0.0 | 50.527 | 1.604 | 0.0 | 37.96  | 1.357 | 0.0 | 36.492 | 1.935 | 0.0 | 37.688 | 1.043 | 0.0 | 54.404 | 1.457 | 0.0 | 37.39  | 1.272 | 0.0 | 36.483 | 1.651 |
| 217 | 16233 | 16234 | NS | 1 | 0.0 | 36.887 | 1.034 | 0.0 | 50.527 | 1.604 | 0.0 | 37.96  | 1.358 | 0.0 | 38.355 | 1.917 | 0.0 | 36.455 | 1.016 | 0.0 | 54.404 | 1.457 | 0.0 | 37.39  | 1.256 | 0.0 | 37.559 | 1.669 |
| 218 | 16233 | 16234 | NS | 1 | 0.0 | 43.862 | 3.146 | 0.0 | 46.339 | 5.007 | 0.0 | 40.012 | 3.941 | 0.0 | 39.705 | 5.188 | 0.0 | 44.136 | 3.064 | 0.0 | 46.859 | 4.636 | 0.0 | 42.17  | 3.854 | 0.0 | 42.529 | 4.884 |
| 219 | 16233 | 16234 | NS | 1 | 0.0 | 43.862 | 3.082 | 0.0 | 46.339 | 4.918 | 0.0 | 40.012 | 3.845 | 0.0 | 39.705 | 5.095 | 0.0 | 44.136 | 3.011 | 0.0 | 46.859 | 4.553 | 0.0 | 42.17  | 3.774 | 0.0 | 42.529 | 4.796 |
| 220 | 16233 | 16234 | SN | 1 | 0.0 | 42.222 | 0.85  | 0.0 | 51.773 | 1.12  | 0.0 | 42.0   | 0.955 | 0.0 | 41.243 | 1.221 | 0.0 | 42.079 | 0.826 | 0.0 | 51.27  | 0.989 | 0.0 | 41.133 | 0.884 | 0.0 | 41.733 | 1.02  |
| 221 | 16233 | 16234 | NS | 1 | 0.0 | 43.862 | 3.123 | 0.0 | 46.339 | 4.878 | 0.0 | 40.801 | 3.923 | 0.0 | 37.73  | 5.273 | 0.0 | 44.136 | 3.062 | 0.0 | 46.859 | 4.563 | 0.0 | 42.96  | 3.753 | 0.0 | 38.491 | 4.995 |
| 222 | 16233 | 16234 | NS | 1 | 0.0 | 36.887 | 1.048 | 0.0 | 50.527 | 1.626 | 0.0 | 37.96  | 1.389 | 0.0 | 38.355 | 1.95  | 0.0 | 36.455 | 1.034 | 0.0 | 54.404 | 1.481 | 0.0 | 37.39  | 1.287 | 0.0 | 37.559 | 1.699 |
| 223 | 16233 | 16234 | SN | 1 | 0.0 | 47.004 | 0.866 | 0.0 | 51.678 | 1.134 | 0.0 | 41.432 | 0.985 | 0.0 | 43.062 | 1.226 | 0.0 | 46.857 | 0.844 | 0.0 | 51.174 | 1.003 | 0.0 | 40.112 | 0.912 | 0.0 | 41.952 | 1.009 |
| 224 | 16233 | 16234 | SN | 1 | 0.0 | 51.172 | 3.738 | 0.0 | 45.172 | 4.498 | 0.0 | 44.874 | 3.591 | 0.0 | 42.321 | 4.632 | 0.0 | 50.648 | 3.829 | 0.0 | 44.579 | 4.255 | 0.0 | 45.87  | 3.393 | 0.0 | 43.157 | 3.828 |
| 225 | 16234 | 16235 | NS | 1 | 0.0 | 42.021 | 1.538 | 0.0 | 44.53  | 2.185 | 0.0 | 44.606 | 1.808 | 0.0 | 39.145 | 2.433 | 0.0 | 42.163 | 1.557 | 0.0 | 45.126 | 2.007 | 0.0 | 42.764 | 1.705 | 0.0 | 36.488 | 2.204 |
| 226 | 16234 | 16235 | NS | 1 | 0.0 | 46.675 | 4.731 | 0.0 | 41.603 | 6.308 | 0.0 | 42.986 | 5.049 | 0.0 | 40.043 | 6.779 | 0.0 | 47.729 | 4.792 | 0.0 | 41.482 | 5.892 | 0.0 | 40.683 | 5.234 | 0.0 | 37.981 | 6.289 |
| 227 | 16234 | 16235 | NS | 1 | 0.0 | 41.644 | 1.498 | 0.0 | 44.53  | 2.065 | 0.0 | 46.243 | 1.653 | 0.0 | 42.631 | 2.27  | 0.0 | 41.736 | 1.523 | 0.0 | 45.126 | 1.864 | 0.0 | 44.4   | 1.562 | 0.0 | 42.871 | 2.082 |
| 228 | 16234 | 16235 | NS | 1 | 0.0 | 42.021 | 1.471 | 0.0 | 44.53  | 2.083 | 0.0 | 44.606 | 1.718 | 0.0 | 39.145 | 2.315 | 0.0 | 42.163 | 1.498 | 0.0 | 45.126 | 1.913 | 0.0 | 42.764 | 1.642 | 0.0 | 36.488 | 2.098 |
| 229 | 16234 | 16235 | NS | 1 | 0.0 | 46.675 | 4.751 | 0.0 | 41.619 | 6.348 | 0.0 | 42.9   | 5.057 | 0.0 | 41.552 | 6.807 | 0.0 | 47.729 | 4.802 | 0.0 | 41.498 | 5.912 | 0.0 | 40.748 | 5.277 | 0.0 | 43.756 | 6.31  |
| 230 | 16234 | 16235 | NS | 1 | 0.0 | 46.675 | 5.014 | 0.0 | 41.619 | 6.691 | 0.0 | 42.9   | 5.364 | 0.0 | 41.552 | 7.163 | 0.0 | 47.729 | 5.056 | 0.0 | 41.498 | 6.222 | 0.0 | 40.748 | 5.565 | 0.0 | 43.756 | 6.632 |
| 231 | 16234 | 16235 | SN | 1 | 0.0 | 40.827 | 0.83  | 0.0 | 40.866 | 1.272 | 0.0 | 37.391 | 1.149 | 0.0 | 41.048 | 1.492 | 0.0 | 40.799 | 0.816 | 0.0 | 40.89  | 1.098 | 0.0 | 34.117 | 1.059 | 0.0 | 38.554 | 1.235 |
| 232 | 16234 | 16235 | SN | 1 | 0.0 | 46.258 | 2.958 | 0.0 | 45.18  | 3.615 | 0.0 | 39.783 | 3.228 | 0.0 | 45.748 | 4.304 | 0.0 | 45.666 | 2.856 | 0.0 | 42.916 | 3.432 | 0.0 | 40.534 | 3.214 | 0.0 | 43.744 | 3.763 |
| 233 | 16235 | 16236 | NS | 1 | 0.0 | 43.574 | 1.672 | 0.0 | 43.101 | 2.192 | 0.0 | 43.995 | 1.686 | 0.0 | 40.272 | 2.392 | 0.0 | 44.065 | 1.744 | 0.0 | 44.523 | 2.095 | 0.0 | 40.672 | 1.705 | 0.0 | 37.652 | 2.064 |
| 234 | 16235 | 16236 | NS | 1 | 0.0 | 42.86  | 1.647 | 0.0 | 44.45  | 2.172 | 0.0 | 47.094 | 1.684 | 0.0 | 39.141 | 2.374 | 0.0 | 43.539 | 1.728 | 0.0 | 45.872 | 2.086 | 0.0 | 44.299 | 1.716 | 0.0 | 38.29  | 2.062 |
| 235 | 16235 | 16236 | NS | 1 | 0.0 | 45.756 | 6.129 | 0.0 | 44.182 | 7.751 | 0.0 | 48.485 | 5.339 | 0.0 | 42.754 | 6.966 | 0.0 | 46.487 | 6.24  | 0.0 | 45.069 | 7.284 | 0.0 | 50.679 | 5.347 | 0.0 | 44.422 | 6.553 |
| 236 | 16235 | 16236 | SN | 1 | 0.0 | 40.233 | 1.274 | 0.0 | 45.55  | 1.565 | 0.0 | 37.102 | 1.369 | 0.0 | 39.662 | 1.985 | 0.0 | 40.379 | 1.253 | 0.0 | 42.773 | 1.434 | 0.0 | 37.371 | 1.314 | 0.0 | 41.518 | 1.724 |
| 237 | 16235 | 16236 | SN | 1 | 0.0 | 40.233 | 1.274 | 0.0 | 45.55  | 1.565 | 0.0 | 37.102 | 1.369 | 0.0 | 39.662 | 1.985 | 0.0 | 40.379 | 1.253 | 0.0 | 42.773 | 1.434 | 0.0 | 37.371 | 1.314 | 0.0 | 41.518 | 1.724 |
| 238 | 16235 | 16236 | NS | 1 | 0.0 | 43.034 | 1.821 | 0.0 | 54.134 | 2.417 | 0.0 | 47.094 | 1.867 | 0.0 | 39.141 | 2.589 | 0.0 | 43.539 | 1.905 | 0.0 | 55.556 | 2.315 | 0.0 | 44.299 | 1.887 | 0.0 | 38.29  | 2.267 |
| 239 | 16235 | 16236 | SN | 1 | 0.0 | 42.648 | 4.293 | 0.0 | 45.619 | 5.258 | 0.0 | 37.963 | 4.433 | 0.0 | 41.982 | 5.512 | 0.0 | 43.616 | 4.354 | 0.0 | 46.862 | 4.872 | 0.0 | 36.797 | 4.369 | 0.0 | 40.801 | 4.794 |
| 240 | 16235 | 16236 | NS | 1 | 0.0 | 45.756 | 6.78  | 0.0 | 44.182 | 8.507 | 0.0 | 48.485 | 5.804 | 0.0 | 42.346 | 7.649 | 0.0 | 46.487 | 6.88  | 0.0 | 45.069 | 8.061 | 0.0 | 50.679 | 5.836 | 0.0 | 44.422 | 7.234 |
| 241 | 16235 | 16236 | SN | 1 | 0.0 | 42.648 | 4.293 | 0.0 | 45.619 | 5.258 | 0.0 | 37.963 | 4.433 | 0.0 | 41.982 | 5.512 | 0.0 | 43.616 | 4.354 | 0.0 | 46.862 | 4.872 | 0.0 | 36.797 | 4.369 | 0.0 | 40.801 | 4.794 |
| 242 | 16235 | 16236 | NS | 1 | 0.0 | 45.624 | 6.119 | 0.0 | 44.23  | 7.802 | 0.0 | 48.024 | 5.354 | 0.0 | 42.655 | 6.937 | 0.0 | 46.356 | 6.251 | 0.0 | 45.061 | 7.294 | 0.0 | 47.094 | 5.29  | 0.0 | 44.459 | 6.568 |
| 243 | 16236 | 16237 | SN | 1 | 0.0 | 44.504 | 4.868 | 0.0 | 49.843 | 5.354 | 0.0 | 41.789 | 4.102 | 0.0 | 46.574 | 5.631 | 0.0 | 45.852 | 4.858 | 0.0 | 48.454 | 5.114 | 0.0 | 40.821 | 4.094 | 0.0 | 43.413 | 5.149 |
| 244 | 16236 | 16237 | NS | 1 | 0.0 | 51.628 | 7.583 | 0.0 | 50.472 | 9.2   | 0.0 | 45.118 | 7.109 | 0.0 | 47.96  | 9.594 | 0.0 | 50.828 | 7.63  | 0.0 | 49.87  | 9.188 | 0.0 | 44.861 | 7.351 | 0.0 | 48.805 | 9.878 |
| 245 | 16236 | 16237 | NS | 1 | 0.0 | 47.784 | 1.965 | 0.0 | 47.399 | 2.545 | 0.0 | 39.472 | 1.786 | 0.0 | 45.394 | 2.622 | 0.0 | 48.702 | 2.003 | 0.0 | 47.589 | 2.523 | 0.0 | 38.427 | 1.834 | 0.0 | 41.963 | 2.75  |
| 246 | 16236 | 16237 | NS | 1 | 0.0 | 49.467 | 6.552 | 0.0 | 52.233 | 7.917 | 0.0 | 44.455 | 6.291 | 0.0 | 46.84  | 8.227 | 0.0 | 48.669 | 6.552 | 0.0 | 51.561 | 7.937 | 0.0 | 44.201 | 6.576 | 0.0 | 47.684 | 8.497 |
| 247 | 16236 | 16237 | NS | 1 | 0.0 | 50.672 | 1.899 | 0.0 | 45.57  | 2.541 | 0.0 | 39.687 | 1.777 | 0.0 | 48.915 | 2.634 | 0.0 | 51.588 | 1.985 | 0.0 | 46.196 | 2.543 | 0.0 | 38.643 | 1.839 | 0.0 | 49.97  | 2.764 |

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



|     |       |       |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 248 | 16236 | 16237 | SN | 1 | 0.0 | 44.504 | 4.651 | 0.0 | 49.843 | 5.024 | 0.0 | 40.954 | 4.062 | 0.0 | 41.574 | 5.228 | 0.0 | 45.852 | 4.621 | 0.0 | 48.019 | 4.821 | 0.0 | 40.783 | 3.97  | 0.0 | 40.206 | 4.794 |
| 249 | 16236 | 16237 | NS | 1 | 0.0 | 50.672 | 2.227 | 0.0 | 45.57  | 2.965 | 0.0 | 39.687 | 2.07  | 0.0 | 48.915 | 3.072 | 0.0 | 51.588 | 2.327 | 0.0 | 46.196 | 2.973 | 0.0 | 38.643 | 2.145 | 0.0 | 49.97  | 3.241 |
| 250 | 16236 | 16237 | NS | 1 | 0.0 | 51.628 | 6.45  | 0.0 | 50.472 | 7.897 | 0.0 | 45.118 | 6.121 | 0.0 | 47.96  | 8.241 | 0.0 | 50.828 | 6.501 | 0.0 | 49.87  | 7.846 | 0.0 | 44.861 | 6.298 | 0.0 | 48.805 | 8.419 |
| 251 | 16236 | 16237 | SN | 1 | 0.0 | 44.626 | 1.286 | 0.0 | 38.488 | 1.594 | 0.0 | 39.647 | 1.341 | 0.0 | 39.32  | 1.748 | 0.0 | 45.825 | 1.232 | 0.0 | 38.088 | 1.441 | 0.0 | 38.46  | 1.268 | 0.0 | 39.5   | 1.475 |
| 252 | 16236 | 16237 | SN | 1 | 0.0 | 46.808 | 1.232 | 0.0 | 38.488 | 1.501 | 0.0 | 39.647 | 1.281 | 0.0 | 39.32  | 1.63  | 0.0 | 47.286 | 1.183 | 0.0 | 38.088 | 1.359 | 0.0 | 38.586 | 1.198 | 0.0 | 38.707 | 1.378 |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| 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     | 16208       | 16209     | NS   | 1    | 0.0           | 24.459  | 10.273     | 0.0        | 29.93   | 14.653     | 0.0       | 352.24  | 9.999      | 0.0        | 39.388  | 12.904     | 0.0             | 1.419 | 0.0        | 1.78       | 0.0 | 0.0        | 1.836     | 0.0 | 0.0        | 2.137      | 0.0 |            |
| 2     | 16208       | 16209     | SN   | 1    | 0.0           | 28.479  | 13.466     | 0.0        | 26.373  | 12.94      | 0.0       | 148.767 | 11.627     | 0.0        | 63.299  | 13.124     | 0.0             | 1.454 | 0.0        | 1.785      | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.14       | 0.0 |            |
| 3     | 16208       | 16209     | SN   | 1    | 0.0           | 22.104  | 6.069      | 0.0        | 24.801  | 7.631      | 0.0       | 140.831 | 2.315      | 0.0        | 259.765 | 3.4        | 0.0             | 1.438 | 0.0        | 1.783      | 0.0 | 0.0        | 1.846     | 0.0 | 0.0        | 2.139      | 0.0 |            |
| 4     | 16208       | 16209     | SN   | 1    | 0.0           | 22.104  | 6.009      | 0.0        | 24.801  | 7.63       | 0.0       | 140.831 | 2.288      | 0.0        | 259.765 | 3.538      | 0.0             | 1.438 | 0.0        | 1.783      | 0.0 | 0.0        | 1.846     | 0.0 | 0.0        | 2.139      | 0.0 |            |
| 5     | 16208       | 16209     | SN   | 1    | 0.0           | 28.479  | 13.442     | 0.0        | 26.731  | 13.243     | 0.0       | 148.767 | 11.478     | 0.0        | 76.278  | 13.611     | 0.0             | 1.454 | 0.0        | 1.785      | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.14       | 0.0 |            |
| 6     | 16208       | 16209     | NS   | 1    | 0.0           | 24.751  | 6.237      | 0.0        | 24.624  | 6.908      | 0.0       | 218.932 | 2.226      | 0.0        | 60.169  | 3.059      | 0.0             | 1.441 | 0.0        | 1.779      | 0.0 | 0.0        | 1.844     | 0.0 | 0.0        | 2.137      | 0.0 |            |
| 7     | 16208       | 16209     | NS   | 1    | 0.0           | 24.751  | 6.237      | 0.0        | 24.624  | 6.908      | 0.0       | 218.932 | 2.226      | 0.0        | 60.169  | 3.059      | 0.0             | 1.441 | 0.0        | 1.779      | 0.0 | 0.0        | 1.844     | 0.0 | 0.0        | 2.137      | 0.0 |            |
| 8     | 16208       | 16209     | SN   | 1    | 0.0           | 28.479  | 13.442     | 0.0        | 26.731  | 13.243     | 0.0       | 148.767 | 11.478     | 0.0        | 76.267  | 13.611     | 0.0             | 1.454 | 0.0        | 1.785      | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.14       | 0.0 |            |
| 9     | 16208       | 16209     | NS   | 1    | 0.0           | 24.459  | 10.273     | 0.0        | 29.93   | 14.653     | 0.0       | 352.24  | 9.999      | 0.0        | 39.388  | 12.904     | 0.0             | 1.419 | 0.0        | 1.78       | 0.0 | 0.0        | 1.836     | 0.0 | 0.0        | 2.137      | 0.0 |            |
| 10    | 16208       | 16209     | SN   | 1    | 0.0           | 22.104  | 6.009      | 0.0        | 24.801  | 7.63       | 0.0       | 140.831 | 2.288      | 0.0        | 259.765 | 3.54       | 0.0             | 1.438 | 0.0        | 1.783      | 0.0 | 0.0        | 1.846     | 0.0 | 0.0        | 2.139      | 0.0 |            |
| 11    | 16209       | 16210     | NS   | 1    | 0.0           | 272.168 | 10.236     | 0.827      | 31.855  | 14.643     | 0.0       | 348.248 | 9.996      | 0.0        | 34.469  | 12.85      | 0.0             | 1.421 | 0.002      | 1.78       | 0.0 | 0.0        | 1.834     | 0.0 | 0.0        | 2.133      | 0.0 |            |
| 12    | 16209       | 16210     | SN   | 1    | 0.0           | 28.568  | 13.449     | 0.0        | 125.364 | 13.179     | 0.0       | 149.545 | 11.445     | 0.0        | 70.222  | 13.539     | 0.0             | 1.455 | 0.0        | 1.782      | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.137      | 0.0 |            |
| 13    | 16209       | 16210     | NS   | 1    | 0.0           | 142.367 | 6.172      | 0.0        | 24.624  | 6.892      | 0.0       | 141.457 | 2.205      | 0.0        | 57.295  | 3.012      | 0.0             | 1.441 | 0.0        | 1.778      | 0.0 | 0.0        | 1.844     | 0.0 | 0.0        | 2.134      | 0.0 |            |
| 14    | 16209       | 16210     | SN   | 1    | 0.0           | 22.099  | 6.009      | 0.0        | 125.348 | 7.614      | 0.0       | 141.333 | 2.335      | 0.0        | 69.164  | 3.553      | 0.0             | 1.438 | 0.0        | 1.783      | 0.0 | 0.0        | 1.848     | 0.0 | 0.0        | 2.141      | 0.0 |            |
| 15    | 16209       | 16210     | NS   | 1    | 0.0           | 142.367 | 6.176      | 0.0        | 24.624  | 6.901      | 0.0       | 141.446 | 2.205      | 0.0        | 57.312  | 3.017      | 0.0             | 1.442 | 0.0        | 1.778      | 0.0 | 0.0        | 1.844     | 0.0 | 0.0        | 2.134      | 0.0 |            |
| 16    | 16209       | 16210     | NS   | 1    | 0.0           | 272.168 | 10.226     | 0.827      | 32.108  | 14.654     | 0.0       | 348.242 | 9.996      | 0.0        | 34.458  | 12.85      | 0.0             | 1.42  | 0.002      | 1.78       | 0.0 | 0.0        | 1.833     | 0.0 | 0.0        | 2.134      | 0.0 |            |
| 17    | 16209       | 16210     | SN   | 1    | 0.0           | 28.568  | 13.468     | 0.0        | 125.364 | 13.04      | 0.0       | 149.545 | 11.517     | 0.0        | 20.417  | 13.26      | 0.0             | 1.455 | 0.0        | 1.782      | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.137      | 0.0 |            |
| 18    | 16209       | 16210     | SN   | 1    | 0.0           | 28.568  | 13.468     | 0.0        | 125.364 | 13.04      | 0.0       | 149.545 | 11.517     | 0.0        | 20.417  | 13.26      | 0.0             | 1.455 | 0.0        | 1.782      | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.137      | 0.0 |            |
| 19    | 16209       | 16210     | SN   | 1    | 0.0           | 22.099  | 6.044      | 0.0        | 125.348 | 7.622      | 0.0       | 141.333 | 2.353      | 0.0        | 14.929  | 3.448      | 0.0             | 1.438 | 0.0        | 1.783      | 0.0 | 0.0        | 1.848     | 0.0 | 0.0        | 2.141      | 0.0 |            |
| 20    | 16209       | 16210     | SN   | 1    | 0.0           | 22.099  | 6.044      | 0.0        | 125.348 | 7.622      | 0.0       | 141.333 | 2.353      | 0.0        | 14.929  | 3.448      | 0.0             | 1.438 | 0.0        | 1.783      | 0.0 | 0.0        | 1.848     | 0.0 | 0.0        | 2.141      | 0.0 |            |
| 21    | 16210       | 16211     | SN   | 1    | 0.0           | 22.11   | 6.058      | 0.0        | 24.26   | 7.586      | 0.0       | 121.887 | 2.394      | 0.0        | 136.168 | 3.498      | 0.0             | 1.439 | 0.0        | 1.784      | 0.0 | 0.0        | 1.847     | 0.0 | 0.0        | 2.14       | 0.0 |            |
| 22    | 16210       | 16211     | SN   | 1    | 0.0           | 22.11   | 6.02       | 0.0        | 24.26   | 7.585      | 0.0       | 121.887 | 2.381      | 0.0        | 136.168 | 3.602      | 0.0             | 1.439 | 0.0        | 1.784      | 0.0 | 0.0        | 1.847     | 0.0 | 0.0        | 2.14       | 0.0 |            |
| 23    | 16210       | 16211     | NS   | 1    | 0.0           | 199.183 | 6.165      | 0.0        | 24.613  | 6.903      | 0.0       | 351.998 | 2.205      | 0.0        | 65.176  | 2.991      | 0.0             | 1.439 | 0.0        | 1.778      | 0.0 | 0.0        | 1.842     | 0.0 | 0.0        | 2.134      | 0.0 |            |
| 24    | 16210       | 16211     | SN   | 1    | 0.0           | 28.446  | 13.539     | 0.0        | 30.346  | 12.991     | 0.0       | 161.143 | 11.539     | 0.0        | 233.078 | 13.251     | 0.0             | 1.455 | 0.0        | 1.783      | 0.0 | 0.0        | 1.832     | 0.0 | 0.0        | 2.136      | 0.0 |            |
| 25    | 16210       | 16211     | NS   | 1    | 0.0           | 168.365 | 10.311     | 0.822      | 29.93   | 14.664     | 0.0       | 200.506 | 9.89       | 0.0        | 35.693  | 12.779     | 0.0             | 1.419 | 0.002      | 1.78       | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.133      | 0.0 |            |
| 26    | 16210       | 16211     | NS   | 1    | 0.0           | 168.365 | 10.311     | 0.822      | 29.93   | 14.664     | 0.0       | 200.506 | 9.89       | 0.0        | 35.693  | 12.779     | 0.0             | 1.419 | 0.002      | 1.78       | 0.0 | 0.0        | 1.831     | 0.0 | 0.0        | 2.133      | 0.0 |            |
| 27    | 16210       | 16211     | NS   | 1    | 0.0           | 199.183 | 6.165      | 0.0        | 24.613  | 6.903      | 0.0       | 351.998 | 2.207      | 0.0        | 65.176  | 2.991      | 0.0             | 1.439 | 0.0        | 1.778      | 0.0 | 0.0        | 1.842     | 0.0 | 0.0        | 2.134      | 0.0 |            |
| 28    | 16210       | 16211     | SN   | 1    | 0.0           | 28.446  | 13.524     | 0.0        | 30.346  | 13.159     | 0.0       | 161.143 | 11.449     | 0.0        | 233.078 | 13.581     | 0.0             | 1.455 | 0.0        | 1.783      | 0.0 | 0.0        | 1.832     | 0.0 | 0.0        | 2.136      | 0.0 |            |
| 29    | 16210       | 16211     | SN   | 1    | 0.0           | 28.446  | 13.524     | 0.0        | 30.346  | 13.159     | 0.0       | 161.143 | 11.449     | 0.0        | 233.078 | 13.581     | 0.0             | 1.455 | 0.0        | 1.783      | 0.0 | 0.0        | 1.832     | 0.0 | 0.0        | 2.136      | 0.0 |            |
| 30    | 16210       | 16211     | SN   | 1    | 0.0           | 22.11   | 6.02       | 0.0        | 24.26   | 7.585      | 0.0       | 121.887 | 2.381      | 0.0        | 136.168 | 3.602      | 0.0             | 1.439 | 0.0        | 1.784      | 0.0 | 0.0        | 1.847     | 0.0 | 0.0        | 2.14       | 0.0 |            |
| 31    | 16211       | 16212     | NS   | 1    | 0.0           | 254.473 | 6.144      | 0.0        | 24.613  | 6.901      | 0.0       | 138.115 | 2.197      | 0.0        | 61.387  | 2.987      | 0.0             | 1.44  | 0.0        | 1.778      | 0.0 | 0.0        | 1.843     | 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 | 16211 | 16212 | SN | 1 | 0.0 | 22.121  | 6.031  | 0.0   | 24.272 | 7.599  | 0.0 | 138.851 | 2.404  | 0.0 | 116.783 | 3.638  | 0.0 | 1.439 | 0.0 | 0.0   | 1.784 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.139 | 0.0 |
| 33 | 16211 | 16212 | NS | 1 | 0.0 | 268.076 | 10.234 | 0.0   | 29.93  | 14.679 | 0.0 | 355.605 | 9.921  | 0.0 | 36.007  | 12.845 | 0.0 | 1.418 | 0.0 | 0.0   | 1.778 | 0.0 | 0.0 | 1.836 | 0.0 | 0.0 | 2.133 | 0.0 |
| 34 | 16211 | 16212 | NS | 1 | 0.0 | 268.076 | 10.244 | 0.0   | 29.93  | 14.7   | 0.0 | 355.61  | 9.97   | 0.0 | 36.002  | 12.859 | 0.0 | 1.418 | 0.0 | 0.0   | 1.778 | 0.0 | 0.0 | 1.836 | 0.0 | 0.0 | 2.133 | 0.0 |
| 35 | 16211 | 16212 | SN | 1 | 0.0 | 22.121  | 6.031  | 0.0   | 24.272 | 7.599  | 0.0 | 138.851 | 2.404  | 0.0 | 116.783 | 3.638  | 0.0 | 1.439 | 0.0 | 0.0   | 1.784 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.139 | 0.0 |
| 36 | 16211 | 16212 | SN | 1 | 0.0 | 29.257  | 13.532 | 0.673 | 26.373 | 13.184 | 0.0 | 168.836 | 11.486 | 0.0 | 66.45   | 13.607 | 0.0 | 1.455 | 0.0 | 0.003 | 1.785 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.137 | 0.0 |
| 37 | 16211 | 16212 | SN | 1 | 0.0 | 29.257  | 13.532 | 0.673 | 26.373 | 13.184 | 0.0 | 168.836 | 11.486 | 0.0 | 66.45   | 13.607 | 0.0 | 1.455 | 0.0 | 0.003 | 1.785 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.137 | 0.0 |
| 38 | 16211 | 16212 | NS | 1 | 0.0 | 254.473 | 6.153  | 0.0   | 24.613 | 6.912  | 0.0 | 138.242 | 2.203  | 0.0 | 61.371  | 2.992  | 0.0 | 1.439 | 0.0 | 0.0   | 1.777 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.135 | 0.0 |
| 39 | 16212 | 16213 | NS | 1 | 0.0 | 24.751  | 6.165  | 0.0   | 24.619 | 6.915  | 0.0 | 308.881 | 2.214  | 0.0 | 69.958  | 2.979  | 0.0 | 1.44  | 0.0 | 0.0   | 1.777 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.134 | 0.0 |
| 40 | 16212 | 16213 | SN | 1 | 0.0 | 22.115  | 6.009  | 0.0   | 24.812 | 7.572  | 0.0 | 186.049 | 2.389  | 0.0 | 129.048 | 3.641  | 0.0 | 1.439 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 41 | 16212 | 16213 | SN | 1 | 0.0 | 22.115  | 6.009  | 0.0   | 24.812 | 7.57   | 0.0 | 186.049 | 2.39   | 0.0 | 129.048 | 3.628  | 0.0 | 1.439 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 42 | 16212 | 16213 | SN | 1 | 0.0 | 29.274  | 13.619 | 0.673 | 26.737 | 12.712 | 0.0 | 186.23  | 11.717 | 0.0 | 146.647 | 12.961 | 0.0 | 1.455 | 0.0 | 0.003 | 1.783 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.138 | 0.0 |
| 43 | 16212 | 16213 | SN | 1 | 0.0 | 29.274  | 13.542 | 0.673 | 26.737 | 13.113 | 0.0 | 186.23  | 11.479 | 0.0 | 146.647 | 13.614 | 0.0 | 1.455 | 0.0 | 0.003 | 1.783 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.138 | 0.0 |
| 44 | 16212 | 16213 | SN | 1 | 0.0 | 22.115  | 6.098  | 0.0   | 24.812 | 7.569  | 0.0 | 186.049 | 2.432  | 0.0 | 129.048 | 3.497  | 0.0 | 1.439 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 45 | 16212 | 16213 | SN | 1 | 0.0 | 29.274  | 13.542 | 0.673 | 26.737 | 13.113 | 0.0 | 186.23  | 11.479 | 0.0 | 146.647 | 13.614 | 0.0 | 1.455 | 0.0 | 0.003 | 1.783 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.138 | 0.0 |
| 46 | 16212 | 16213 | NS | 1 | 0.0 | 208.183 | 10.311 | 0.0   | 30.189 | 14.657 | 0.0 | 333.412 | 10.018 | 0.0 | 77.011  | 12.807 | 0.0 | 1.42  | 0.0 | 0.0   | 1.778 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.133 | 0.0 |
| 47 | 16212 | 16213 | NS | 1 | 0.0 | 24.459  | 10.311 | 0.0   | 30.189 | 14.657 | 0.0 | 333.368 | 10.004 | 0.0 | 76.984  | 12.821 | 0.0 | 1.419 | 0.0 | 0.0   | 1.778 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.133 | 0.0 |
| 48 | 16212 | 16213 | NS | 1 | 0.0 | 59.438  | 6.179  | 0.0   | 24.619 | 6.905  | 0.0 | 307.96  | 2.211  | 0.0 | 69.936  | 2.99   | 0.0 | 1.44  | 0.0 | 0.0   | 1.777 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.134 | 0.0 |
| 49 | 16213 | 16214 | NS | 1 | 0.0 | 66.55   | 6.167  | 0.0   | 24.619 | 6.892  | 0.0 | 347.944 | 2.224  | 0.0 | 58.448  | 3.013  | 0.0 | 1.439 | 0.0 | 0.0   | 1.777 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.134 | 0.0 |
| 50 | 16213 | 16214 | SN | 1 | 0.0 | 28.568  | 13.499 | 0.0   | 26.378 | 13.045 | 0.0 | 144.118 | 11.566 | 0.0 | 134.453 | 13.173 | 0.0 | 1.456 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.138 | 0.0 |
| 51 | 16213 | 16214 | SN | 1 | 0.0 | 28.568  | 13.474 | 0.0   | 26.373 | 13.262 | 0.0 | 144.118 | 11.47  | 0.0 | 134.453 | 13.504 | 0.0 | 1.456 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.138 | 0.0 |
| 52 | 16213 | 16214 | SN | 1 | 0.0 | 28.568  | 13.474 | 0.0   | 26.373 | 13.262 | 0.0 | 144.118 | 11.47  | 0.0 | 134.453 | 13.504 | 0.0 | 1.456 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.138 | 0.0 |
| 53 | 16213 | 16214 | NS | 1 | 0.0 | 160.225 | 10.313 | 0.0   | 29.93  | 14.694 | 0.0 | 356.184 | 9.962  | 0.0 | 38.649  | 12.847 | 0.0 | 1.419 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.133 | 0.0 |
| 54 | 16213 | 16214 | NS | 1 | 0.0 | 160.225 | 10.314 | 0.0   | 29.93  | 14.674 | 0.0 | 356.195 | 9.962  | 0.0 | 38.66   | 12.862 | 0.0 | 1.419 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.133 | 0.0 |
| 55 | 16213 | 16214 | SN | 1 | 0.0 | 22.115  | 5.998  | 0.0   | 24.812 | 7.608  | 0.0 | 147.681 | 2.379  | 0.0 | 92.131  | 3.608  | 0.0 | 1.439 | 0.0 | 0.0   | 1.784 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 56 | 16213 | 16214 | NS | 1 | 0.0 | 66.55   | 6.167  | 0.0   | 24.619 | 6.887  | 0.0 | 347.928 | 2.221  | 0.0 | 58.431  | 3.02   | 0.0 | 1.439 | 0.0 | 0.0   | 1.777 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.134 | 0.0 |
| 57 | 16213 | 16214 | SN | 1 | 0.0 | 22.115  | 5.998  | 0.0   | 24.812 | 7.608  | 0.0 | 147.681 | 2.379  | 0.0 | 92.131  | 3.608  | 0.0 | 1.439 | 0.0 | 0.0   | 1.784 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 58 | 16213 | 16214 | SN | 1 | 0.0 | 22.115  | 6.037  | 0.0   | 24.812 | 7.604  | 0.0 | 147.681 | 2.395  | 0.0 | 92.131  | 3.495  | 0.0 | 1.439 | 0.0 | 0.0   | 1.784 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 59 | 16214 | 16215 | NS | 1 | 0.0 | 119.902 | 10.247 | 0.7   | 29.941 | 14.643 | 0.0 | 349.885 | 10.016 | 0.0 | 34.083  | 12.786 | 0.0 | 1.419 | 0.0 | 0.003 | 1.78  | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.134 | 0.0 |
| 60 | 16214 | 16215 | NS | 1 | 0.0 | 56.195  | 6.185  | 0.0   | 24.624 | 6.878  | 0.0 | 139.571 | 2.218  | 0.0 | 60.957  | 3.039  | 0.0 | 1.445 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.137 | 0.0 |
| 61 | 16214 | 16215 | NS | 1 | 0.0 | 24.735  | 6.187  | 0.0   | 24.624 | 6.883  | 0.0 | 305.297 | 2.221  | 0.0 | 49.58   | 3.041  | 0.0 | 1.439 | 0.0 | 0.0   | 1.78  | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.134 | 0.0 |
| 62 | 16214 | 16215 | SN | 1 | 0.0 | 28.413  | 13.441 | 0.0   | 25.887 | 13.189 | 0.0 | 149.694 | 11.425 | 0.0 | 69.241  | 13.524 | 0.0 | 1.456 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.829 | 0.0 | 0.0 | 2.138 | 0.0 |
| 63 | 16214 | 16215 | SN | 1 | 0.0 | 28.408  | 13.431 | 0.0   | 26.731 | 13.189 | 0.0 | 149.638 | 11.418 | 0.0 | 69.263  | 13.524 | 0.0 | 1.456 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.829 | 0.0 | 0.0 | 2.138 | 0.0 |
| 64 | 16214 | 16215 | SN | 1 | 0.0 | 22.104  | 6.19   | 0.0   | 24.834 | 7.637  | 0.0 | 140.357 | 2.499  | 0.0 | 12.971  | 3.388  | 0.0 | 1.439 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.14  | 0.0 |
| 65 | 16214 | 16215 | SN | 1 | 0.0 | 22.104  | 6.028  | 0.0   | 24.834 | 7.623  | 0.0 | 140.357 | 2.355  | 0.0 | 63.483  | 3.564  | 0.0 | 1.439 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.14  | 0.0 |
| 66 | 16214 | 16215 | SN | 1 | 0.0 | 22.104  | 6.023  | 0.0   | 24.834 | 7.618  | 0.0 | 140.252 | 2.358  | 0.0 | 63.505  | 3.562  | 0.0 | 1.439 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.14  | 0.0 |
| 67 | 16214 | 16215 | NS | 1 | 0.0 | 218.058 | 10.283 | 0.0   | 29.941 | 14.663 | 0.0 | 352.439 | 9.955  | 0.0 | 43.712  | 12.84  | 0.0 | 1.422 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.136 | 0.0 |
| 68 | 16214 | 16215 | SN | 1 | 0.0 | 28.413  | 13.563 | 0.0   | 25.733 | 12.604 | 0.0 | 149.694 | 11.959 | 0.0 | 14.433  | 12.588 | 0.0 | 1.456 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.829 | 0.0 | 0.0 | 2.138 | 0.0 |

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

|     |       |       |    |   |     |         |        |       |         |        |     |         |        |     |         |        |     |       |     |       |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-------|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-------|-------|-----|-----|-------|-----|-----|-------|-----|
| 69  | 16215 | 16216 | NS | 1 | 0.0 | 54.557  | 6.205  | 0.0   | 24.63   | 6.896  | 0.0 | 319.112 | 2.214  | 0.0 | 59.452  | 3.023  | 0.0 | 1.439 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.137 | 0.0 |
| 70  | 16215 | 16216 | SN | 1 | 0.0 | 28.65   | 13.655 | 0.0   | 25.408  | 12.487 | 0.0 | 146.407 | 12.096 | 0.0 | 14.433  | 12.452 | 0.0 | 1.456 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 71  | 16215 | 16216 | NS | 1 | 0.0 | 43.384  | 10.277 | 0.695 | 29.941  | 14.613 | 0.0 | 131.447 | 9.939  | 0.0 | 34.976  | 12.9   | 0.0 | 1.42  | 0.0 | 0.003 | 1.783 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.137 | 0.0 |
| 72  | 16215 | 16216 | NS | 1 | 0.0 | 56.609  | 10.297 | 0.7   | 29.941  | 14.592 | 0.0 | 131.403 | 9.974  | 0.0 | 35.941  | 12.886 | 0.0 | 1.42  | 0.0 | 0.003 | 1.782 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.137 | 0.0 |
| 73  | 16215 | 16216 | SN | 1 | 0.0 | 28.65   | 13.464 | 0.0   | 26.373  | 13.169 | 0.0 | 146.407 | 11.372 | 0.0 | 66.478  | 13.532 | 0.0 | 1.456 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 74  | 16215 | 16216 | SN | 1 | 0.0 | 28.65   | 13.464 | 0.0   | 26.373  | 13.169 | 0.0 | 146.407 | 11.372 | 0.0 | 66.478  | 13.532 | 0.0 | 1.456 | 0.0 | 0.0   | 1.783 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.139 | 0.0 |
| 75  | 16215 | 16216 | SN | 1 | 0.0 | 23.395  | 6.223  | 0.0   | 24.834  | 7.71   | 0.0 | 138.184 | 2.506  | 0.0 | 12.977  | 3.379  | 0.0 | 1.44  | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.139 | 0.0 |
| 76  | 16215 | 16216 | NS | 1 | 0.0 | 95.716  | 6.212  | 0.0   | 24.619  | 6.906  | 0.0 | 319.095 | 2.214  | 0.0 | 59.43   | 3.023  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.137 | 0.0 |
| 77  | 16215 | 16216 | SN | 1 | 0.0 | 23.395  | 5.99   | 0.0   | 24.834  | 7.682  | 0.0 | 138.184 | 2.298  | 0.0 | 46.392  | 3.529  | 0.0 | 1.44  | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.139 | 0.0 |
| 78  | 16215 | 16216 | SN | 1 | 0.0 | 23.395  | 5.99   | 0.0   | 24.834  | 7.682  | 0.0 | 138.184 | 2.298  | 0.0 | 46.392  | 3.529  | 0.0 | 1.44  | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.139 | 0.0 |
| 79  | 16216 | 16217 | NS | 1 | 0.0 | 24.751  | 6.179  | 0.0   | 24.619  | 6.901  | 0.0 | 320.601 | 2.226  | 0.0 | 73.223  | 3.038  | 0.0 | 1.441 | 0.0 | 0.0   | 1.778 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.136 | 0.0 |
| 80  | 16216 | 16217 | NS | 1 | 0.0 | 240.369 | 10.202 | 0.0   | 29.93   | 14.608 | 0.0 | 355.753 | 9.977  | 0.0 | 35.958  | 12.878 | 0.0 | 1.42  | 0.0 | 0.0   | 1.781 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.134 | 0.0 |
| 81  | 16216 | 16217 | SN | 1 | 0.0 | 28.011  | 13.491 | 0.673 | 25.816  | 13.225 | 0.0 | 149.092 | 11.395 | 0.0 | 59.777  | 13.635 | 0.0 | 1.456 | 0.0 | 0.003 | 1.78  | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.14  | 0.0 |
| 82  | 16216 | 16217 | SN | 1 | 0.0 | 22.104  | 6.017  | 0.0   | 24.817  | 7.737  | 0.0 | 162.257 | 2.307  | 0.0 | 123.324 | 3.444  | 0.0 | 1.439 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 83  | 16217 | 16218 | SN | 1 | 0.0 | 22.115  | 5.99   | 0.0   | 221.298 | 7.729  | 0.0 | 152.17  | 2.314  | 0.0 | 70.802  | 3.478  | 0.0 | 1.439 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.139 | 0.0 |
| 84  | 16217 | 16218 | NS | 1 | 0.0 | 166.253 | 6.154  | 0.0   | 24.624  | 6.91   | 0.0 | 310.812 | 2.22   | 0.0 | 71.353  | 3.018  | 0.0 | 1.439 | 0.0 | 0.0   | 1.778 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.134 | 0.0 |
| 85  | 16217 | 16218 | NS | 1 | 0.0 | 147.612 | 10.32  | 0.0   | 29.946  | 14.648 | 0.0 | 355.72  | 10.038 | 0.0 | 92.685  | 12.871 | 0.0 | 1.419 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.134 | 0.0 |
| 86  | 16217 | 16218 | SN | 1 | 0.0 | 29.119  | 13.467 | 0.0   | 98.705  | 13.213 | 0.0 | 159.284 | 11.433 | 0.0 | 101.016 | 13.589 | 0.0 | 1.457 | 0.0 | 0.0   | 1.784 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.14  | 0.0 |
| 87  | 16218 | 16219 | NS | 1 | 0.0 | 122.772 | 6.201  | 0.0   | 24.619  | 6.9    | 0.0 | 297.046 | 2.253  | 0.0 | 18.481  | 3.007  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.134 | 0.0 |
| 88  | 16218 | 16219 | SN | 1 | 0.0 | 22.099  | 6.017  | 0.0   | 24.823  | 7.686  | 0.0 | 159.031 | 2.338  | 0.0 | 73.405  | 3.527  | 0.0 | 1.439 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.139 | 0.0 |
| 89  | 16218 | 16219 | NS | 1 | 0.0 | 219.163 | 10.292 | 0.0   | 29.935  | 14.653 | 0.0 | 198.352 | 10.068 | 0.0 | 37.662  | 12.919 | 0.0 | 1.419 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.136 | 0.0 |
| 90  | 16218 | 16219 | NS | 1 | 0.0 | 122.772 | 6.188  | 0.0   | 24.619  | 6.897  | 0.0 | 297.046 | 2.242  | 0.0 | 57.389  | 3.031  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.134 | 0.0 |
| 91  | 16218 | 16219 | SN | 1 | 0.0 | 28.584  | 13.457 | 0.0   | 26.378  | 13.233 | 0.0 | 157.635 | 11.468 | 0.0 | 75.357  | 13.589 | 0.0 | 1.456 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.138 | 0.0 |
| 92  | 16218 | 16219 | NS | 1 | 0.0 | 219.163 | 10.271 | 0.0   | 29.935  | 14.629 | 0.0 | 198.352 | 10.113 | 0.0 | 27.873  | 12.873 | 0.0 | 1.419 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.136 | 0.0 |
| 93  | 16219 | 16220 | NS | 1 | 0.0 | 24.078  | 10.296 | 0.64  | 31.987  | 14.616 | 0.0 | 205.409 | 10.109 | 0.0 | 67.151  | 12.875 | 0.0 | 1.42  | 0.0 | 0.003 | 1.782 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.136 | 0.0 |
| 94  | 16219 | 16220 | NS | 1 | 0.0 | 24.74   | 6.305  | 0.0   | 24.624  | 6.924  | 0.0 | 330.528 | 2.306  | 0.0 | 12.855  | 2.963  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.137 | 0.0 |
| 95  | 16219 | 16220 | NS | 1 | 0.0 | 24.74   | 6.214  | 0.0   | 24.624  | 6.906  | 0.0 | 330.528 | 2.235  | 0.0 | 48.477  | 3.055  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.137 | 0.0 |
| 96  | 16219 | 16220 | NS | 1 | 0.0 | 24.746  | 6.214  | 0.0   | 24.624  | 6.897  | 0.0 | 330.506 | 2.235  | 0.0 | 48.471  | 3.055  | 0.0 | 1.44  | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.137 | 0.0 |
| 97  | 16219 | 16220 | SN | 1 | 0.0 | 28.557  | 13.437 | 0.0   | 26.378  | 13.245 | 0.0 | 149.445 | 11.433 | 0.0 | 75.578  | 13.553 | 0.0 | 1.455 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.14  | 0.0 |
| 98  | 16219 | 16220 | SN | 1 | 0.0 | 28.557  | 13.437 | 0.0   | 26.378  | 13.245 | 0.0 | 149.445 | 11.433 | 0.0 | 75.578  | 13.553 | 0.0 | 1.455 | 0.0 | 0.0   | 1.785 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.14  | 0.0 |
| 99  | 16219 | 16220 | SN | 1 | 0.0 | 22.11   | 6.014  | 0.0   | 24.84   | 7.691  | 0.0 | 142.359 | 2.34   | 0.0 | 121.868 | 3.536  | 0.0 | 1.438 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.139 | 0.0 |
| 100 | 16219 | 16220 | SN | 1 | 0.0 | 22.11   | 6.014  | 0.0   | 24.84   | 7.691  | 0.0 | 142.359 | 2.34   | 0.0 | 121.868 | 3.536  | 0.0 | 1.438 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.139 | 0.0 |
| 101 | 16219 | 16220 | NS | 1 | 0.0 | 24.078  | 10.32  | 0.64  | 29.941  | 14.269 | 0.0 | 205.409 | 10.341 | 0.0 | 16.137  | 12.381 | 0.0 | 1.42  | 0.0 | 0.003 | 1.782 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.136 | 0.0 |
| 102 | 16219 | 16220 | NS | 1 | 0.0 | 24.145  | 10.286 | 0.64  | 31.987  | 14.637 | 0.0 | 205.404 | 10.08  | 0.0 | 67.129  | 12.911 | 0.0 | 1.419 | 0.0 | 0.003 | 1.781 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.136 | 0.0 |
| 103 | 16220 | 16221 | NS | 1 | 0.0 | 255.841 | 6.24   | 0.0   | 24.63   | 6.881  | 0.0 | 309.256 | 2.23   | 0.0 | 50.418  | 3.064  | 0.0 | 1.441 | 0.0 | 0.0   | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 104 | 16220 | 16221 | SN | 1 | 0.0 | 28.397  | 13.433 | 0.0   | 26.764  | 13.201 | 0.0 | 148.635 | 11.378 | 0.0 | 76.849  | 13.582 | 0.0 | 1.457 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.138 | 0.0 |
| 105 | 16220 | 16221 | SN | 1 | 0.0 | 28.397  | 13.433 | 0.0   | 26.764  | 13.201 | 0.0 | 148.635 | 11.378 | 0.0 | 76.849  | 13.582 | 0.0 | 1.457 | 0.0 | 0.0   | 1.782 | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.138 | 0.0 |

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



|     |       |       |    |   |     |         |        |      |         |        |     |         |        |     |         |        |     |       |       |       |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|------|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-------|-------|-------|-----|-----|-------|-----|-----|-------|-----|
| 106 | 16220 | 16221 | NS | 1 | 0.0 | 255.841 | 6.444  | 0.0  | 24.63   | 6.944  | 0.0 | 309.256 | 2.391  | 0.0 | 12.85   | 3.033  | 0.0 | 1.441 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 107 | 16220 | 16221 | NS | 1 | 0.0 | 255.841 | 6.24   | 0.0  | 24.63   | 6.885  | 0.0 | 309.256 | 2.228  | 0.0 | 50.424  | 3.062  | 0.0 | 1.441 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 108 | 16220 | 16221 | NS | 1 | 0.0 | 155.984 | 10.286 | 0.64 | 30.801  | 14.562 | 0.0 | 349.957 | 10.031 | 0.0 | 34.061  | 12.851 | 0.0 | 1.42  | 0.004 | 0.004 | 1.781 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.135 | 0.0 |
| 109 | 16220 | 16221 | NS | 1 | 0.0 | 155.984 | 10.286 | 0.64 | 29.946  | 14.562 | 0.0 | 349.957 | 10.023 | 0.0 | 34.077  | 12.858 | 0.0 | 1.42  | 0.004 | 0.004 | 1.781 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.135 | 0.0 |
| 110 | 16220 | 16221 | SN | 1 | 0.0 | 23.395  | 6.014  | 0.0  | 24.812  | 7.715  | 0.0 | 141.305 | 2.342  | 0.0 | 68.662  | 3.521  | 0.0 | 1.44  | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.139 | 0.0 |
| 111 | 16220 | 16221 | SN | 1 | 0.0 | 23.395  | 6.012  | 0.0  | 24.812  | 7.715  | 0.0 | 141.305 | 2.342  | 0.0 | 68.662  | 3.521  | 0.0 | 1.44  | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.139 | 0.0 |
| 112 | 16220 | 16221 | NS | 1 | 0.0 | 155.984 | 10.431 | 0.64 | 29.946  | 14.046 | 0.0 | 349.957 | 10.654 | 0.0 | 13.589  | 12.105 | 0.0 | 1.42  | 0.0   | 0.004 | 1.781 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.135 | 0.0 |
| 113 | 16221 | 16222 | NS | 1 | 0.0 | 24.536  | 10.167 | 0.0  | 113.262 | 14.593 | 0.0 | 355.4   | 10.001 | 0.0 | 91.543  | 13.002 | 0.0 | 1.421 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.135 | 0.0 |
| 114 | 16221 | 16222 | SN | 1 | 0.0 | 23.4    | 6.203  | 0.0  | 24.817  | 7.74   | 0.0 | 141.316 | 2.455  | 0.0 | 171.988 | 3.278  | 0.0 | 1.441 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 115 | 16221 | 16222 | SN | 1 | 0.0 | 23.4    | 6.007  | 0.0  | 24.817  | 7.709  | 0.0 | 141.316 | 2.29   | 0.0 | 171.988 | 3.451  | 0.0 | 1.441 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 116 | 16221 | 16222 | NS | 1 | 0.0 | 24.768  | 6.23   | 0.0  | 113.262 | 6.894  | 0.0 | 332.59  | 2.233  | 0.0 | 86.348  | 3.084  | 0.0 | 1.442 | 0.0   | 0.0   | 1.78  | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.137 | 0.0 |
| 117 | 16221 | 16222 | NS | 1 | 0.0 | 24.762  | 6.232  | 0.0  | 113.262 | 6.905  | 0.0 | 334.675 | 2.24   | 0.0 | 86.348  | 3.097  | 0.0 | 1.443 | 0.0   | 0.0   | 1.78  | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.137 | 0.0 |
| 118 | 16221 | 16222 | SN | 1 | 0.0 | 28.502  | 13.393 | 0.0  | 26.378  | 13.17  | 0.0 | 139.778 | 11.393 | 0.0 | 75.886  | 13.661 | 0.0 | 1.457 | 0.0   | 0.0   | 1.783 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.138 | 0.0 |
| 119 | 16221 | 16222 | SN | 1 | 0.0 | 28.502  | 13.393 | 0.0  | 25.849  | 13.19  | 0.0 | 139.778 | 11.386 | 0.0 | 75.842  | 13.661 | 0.0 | 1.457 | 0.0   | 0.0   | 1.783 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.138 | 0.0 |
| 120 | 16221 | 16222 | SN | 1 | 0.0 | 28.502  | 13.563 | 0.0  | 25.612  | 12.558 | 0.0 | 139.778 | 11.977 | 0.0 | 19.41   | 12.672 | 0.0 | 1.457 | 0.0   | 0.0   | 1.783 | 0.0 | 0.0 | 1.849 | 0.0 | 0.0 | 2.138 | 0.0 |
| 121 | 16221 | 16222 | SN | 1 | 0.0 | 23.4    | 6.01   | 0.0  | 24.817  | 7.705  | 0.0 | 141.316 | 2.29   | 0.0 | 171.988 | 3.451  | 0.0 | 1.441 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.138 | 0.0 |
| 122 | 16221 | 16222 | NS | 1 | 0.0 | 24.762  | 6.603  | 0.0  | 113.262 | 7.081  | 0.0 | 334.675 | 2.548  | 0.0 | 86.348  | 3.263  | 0.0 | 1.443 | 0.0   | 0.0   | 1.78  | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.137 | 0.0 |
| 123 | 16221 | 16222 | NS | 1 | 0.0 | 41.614  | 10.177 | 0.0  | 113.262 | 14.593 | 0.0 | 355.406 | 9.994  | 0.0 | 91.543  | 12.938 | 0.0 | 1.42  | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.135 | 0.0 |
| 124 | 16221 | 16222 | NS | 1 | 0.0 | 24.536  | 10.378 | 0.0  | 113.262 | 13.93  | 0.0 | 355.4   | 11.224 | 0.0 | 91.543  | 12.065 | 0.0 | 1.421 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.135 | 0.0 |
| 125 | 16222 | 16223 | SN | 1 | 0.0 | 28.0    | 13.444 | 0.0  | 26.031  | 12.689 | 0.0 | 142.623 | 11.795 | 0.0 | 235.372 | 12.837 | 0.0 | 1.455 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.83  | 0.0 | 0.0 | 2.139 | 0.0 |
| 126 | 16222 | 16223 | SN | 1 | 0.0 | 28.005  | 13.444 | 0.0  | 99.731  | 12.598 | 0.0 | 142.679 | 11.81  | 0.0 | 69.277  | 13.117 | 0.0 | 1.454 | 0.0   | 0.0   | 1.78  | 0.0 | 0.0 | 1.83  | 0.0 | 0.0 | 2.139 | 0.0 |
| 127 | 16222 | 16223 | NS | 1 | 0.0 | 24.746  | 6.255  | 0.0  | 24.624  | 6.881  | 0.0 | 142.626 | 2.233  | 0.0 | 54.174  | 3.075  | 0.0 | 1.442 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.137 | 0.0 |
| 128 | 16222 | 16223 | SN | 1 | 0.0 | 22.11   | 6.109  | 0.0  | 199.034 | 7.664  | 0.0 | 130.755 | 2.331  | 0.0 | 235.372 | 3.254  | 0.0 | 1.438 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.138 | 0.0 |
| 129 | 16222 | 16223 | NS | 1 | 0.0 | 43.373  | 10.193 | 0.0  | 29.941  | 14.538 | 0.0 | 355.676 | 10.049 | 0.0 | 36.46   | 12.879 | 0.0 | 1.42  | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.134 | 0.0 |
| 130 | 16222 | 16223 | NS | 1 | 0.0 | 43.373  | 10.213 | 0.0  | 29.946  | 14.528 | 0.0 | 355.676 | 10.049 | 0.0 | 36.443  | 12.837 | 0.0 | 1.42  | 0.0   | 0.0   | 1.78  | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.134 | 0.0 |
| 131 | 16222 | 16223 | NS | 1 | 0.0 | 24.74   | 6.251  | 0.0  | 24.63   | 6.885  | 0.0 | 142.56  | 2.229  | 0.0 | 54.218  | 3.079  | 0.0 | 1.442 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.137 | 0.0 |
| 132 | 16222 | 16223 | SN | 1 | 0.0 | 22.11   | 6.124  | 0.0  | 192.275 | 7.508  | 0.0 | 130.783 | 2.328  | 0.0 | 235.364 | 3.181  | 0.0 | 1.438 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.845 | 0.0 | 0.0 | 2.137 | 0.0 |
| 133 | 16223 | 16224 | SN | 1 | 0.0 | 28.033  | 13.37  | 0.0  | 26.726  | 13.174 | 0.0 | 138.757 | 11.444 | 0.0 | 74.698  | 13.592 | 0.0 | 1.453 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.14  | 0.0 |
| 134 | 16223 | 16224 | SN | 1 | 0.0 | 22.121  | 6.029  | 0.0  | 24.823  | 7.673  | 0.0 | 135.062 | 2.267  | 0.0 | 275.499 | 3.359  | 0.0 | 1.437 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.138 | 0.0 |
| 135 | 16223 | 16224 | SN | 1 | 0.0 | 22.121  | 5.992  | 0.0  | 24.823  | 7.668  | 0.0 | 135.062 | 2.251  | 0.0 | 275.499 | 3.465  | 0.0 | 1.437 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.138 | 0.0 |
| 136 | 16223 | 16224 | SN | 1 | 0.0 | 22.121  | 5.992  | 0.0  | 24.823  | 7.668  | 0.0 | 135.062 | 2.251  | 0.0 | 275.499 | 3.465  | 0.0 | 1.437 | 0.0   | 0.0   | 1.782 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.138 | 0.0 |
| 137 | 16223 | 16224 | NS | 1 | 0.0 | 206.454 | 6.221  | 0.0  | 24.624  | 6.893  | 0.0 | 214.956 | 2.242  | 0.0 | 57.069  | 3.037  | 0.0 | 1.441 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.136 | 0.0 |
| 138 | 16223 | 16224 | SN | 1 | 0.0 | 28.033  | 13.401 | 0.0  | 26.726  | 12.986 | 0.0 | 138.757 | 11.535 | 0.0 | 74.698  | 13.241 | 0.0 | 1.453 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.14  | 0.0 |
| 139 | 16223 | 16224 | NS | 1 | 0.0 | 58.589  | 10.213 | 0.0  | 29.935  | 14.581 | 0.0 | 354.601 | 10.035 | 0.0 | 37.265  | 12.878 | 0.0 | 1.419 | 0.0   | 0.0   | 1.78  | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.134 | 0.0 |
| 140 | 16223 | 16224 | NS | 1 | 0.0 | 58.589  | 10.213 | 0.0  | 29.935  | 14.581 | 0.0 | 354.601 | 10.035 | 0.0 | 37.265  | 12.878 | 0.0 | 1.419 | 0.0   | 0.0   | 1.78  | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.134 | 0.0 |
| 141 | 16223 | 16224 | SN | 1 | 0.0 | 28.033  | 13.37  | 0.0  | 26.726  | 13.174 | 0.0 | 138.757 | 11.444 | 0.0 | 74.698  | 13.592 | 0.0 | 1.453 | 0.0   | 0.0   | 1.781 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.14  | 0.0 |
| 142 | 16223 | 16224 | NS | 1 | 0.0 | 206.454 | 6.221  | 0.0  | 24.624  | 6.893  | 0.0 | 214.956 | 2.242  | 0.0 | 57.069  | 3.037  | 0.0 | 1.441 | 0.0   | 0.0   | 1.779 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.136 | 0.0 |

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

|     |       |       |    |   |     |         |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 143 | 16224 | 16225 | SN | 1 | 0.0 | 22.11   | 5.999  | 0.0 | 24.817  | 7.657  | 0.0 | 152.854 | 2.296  | 0.0 | 69.87   | 3.543  | 0.0 | 1.438 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.14  | 0.0 |
| 144 | 16224 | 16225 | NS | 1 | 0.0 | 258.099 | 6.192  | 0.0 | 24.624  | 6.901  | 0.0 | 349.047 | 2.233  | 0.0 | 59.198  | 3.02   | 0.0 | 1.439 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.134 | 0.0 |
| 145 | 16224 | 16225 | SN | 1 | 0.0 | 28.667  | 13.426 | 0.0 | 26.031  | 13.236 | 0.0 | 151.723 | 11.418 | 0.0 | 74.982  | 13.626 | 0.0 | 1.455 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.139 | 0.0 |
| 146 | 16224 | 16225 | NS | 1 | 0.0 | 205.718 | 10.302 | 0.0 | 29.935  | 14.697 | 0.0 | 243.76  | 9.983  | 0.0 | 38.147  | 12.876 | 0.0 | 1.419 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.134 | 0.0 |
| 147 | 16224 | 16225 | NS | 1 | 0.0 | 205.718 | 10.302 | 0.0 | 29.935  | 14.707 | 0.0 | 205.354 | 9.983  | 0.0 | 38.142  | 12.876 | 0.0 | 1.419 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.134 | 0.0 |
| 148 | 16224 | 16225 | SN | 1 | 0.0 | 22.11   | 6.032  | 0.0 | 24.817  | 7.655  | 0.0 | 152.854 | 2.309  | 0.0 | 14.879  | 3.445  | 0.0 | 1.438 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.14  | 0.0 |
| 149 | 16224 | 16225 | SN | 1 | 0.0 | 28.667  | 13.441 | 0.0 | 26.031  | 13.077 | 0.0 | 151.723 | 11.506 | 0.0 | 21.073  | 13.349 | 0.0 | 1.455 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.139 | 0.0 |
| 150 | 16224 | 16225 | SN | 1 | 0.0 | 28.667  | 13.45  | 0.0 | 26.031  | 13.077 | 0.0 | 151.723 | 11.492 | 0.0 | 21.073  | 13.349 | 0.0 | 1.455 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.139 | 0.0 |
| 151 | 16224 | 16225 | SN | 1 | 0.0 | 22.11   | 6.03   | 0.0 | 24.817  | 7.655  | 0.0 | 152.854 | 2.309  | 0.0 | 14.879  | 3.445  | 0.0 | 1.438 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.848 | 0.0 | 0.0 | 2.14  | 0.0 |
| 152 | 16224 | 16225 | NS | 1 | 0.0 | 258.099 | 6.187  | 0.0 | 24.624  | 6.901  | 0.0 | 349.058 | 2.233  | 0.0 | 59.209  | 3.017  | 0.0 | 1.439 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.134 | 0.0 |
| 153 | 16225 | 16226 | SN | 1 | 0.0 | 28.579  | 13.485 | 0.0 | 26.378  | 13.226 | 0.0 | 195.545 | 11.437 | 0.0 | 73.079  | 13.605 | 0.0 | 1.455 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.14  | 0.0 |
| 154 | 16225 | 16226 | NS | 1 | 0.0 | 24.735  | 6.183  | 0.0 | 24.619  | 6.897  | 0.0 | 211.307 | 2.22   | 0.0 | 60.935  | 3.004  | 0.0 | 1.439 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.135 | 0.0 |
| 155 | 16225 | 16226 | SN | 1 | 0.0 | 22.115  | 6.01   | 0.0 | 24.818  | 7.622  | 0.0 | 189.082 | 2.336  | 0.0 | 52.525  | 3.58   | 0.0 | 1.438 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.14  | 0.0 |
| 156 | 16225 | 16226 | NS | 1 | 0.0 | 24.073  | 10.272 | 0.0 | 29.935  | 14.675 | 0.0 | 352.467 | 9.969  | 0.0 | 39.923  | 12.826 | 0.0 | 1.418 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.133 | 0.0 |
| 157 | 16226 | 16227 | NS | 1 | 0.0 | 24.74   | 6.184  | 0.0 | 24.619  | 6.899  | 0.0 | 344.315 | 2.228  | 0.0 | 58.768  | 3.015  | 0.0 | 1.439 | 0.0 | 0.0 | 1.777 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.136 | 0.0 |
| 158 | 16226 | 16227 | SN | 1 | 0.0 | 28.397  | 13.482 | 0.0 | 26.378  | 12.817 | 0.0 | 179.276 | 11.569 | 0.0 | 79.419  | 12.98  | 0.0 | 1.456 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.139 | 0.0 |
| 159 | 16226 | 16227 | NS | 1 | 0.0 | 24.465  | 10.268 | 0.0 | 32.042  | 14.629 | 0.0 | 320.766 | 9.938  | 0.0 | 34.32   | 12.82  | 0.0 | 1.419 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.134 | 0.0 |
| 160 | 16226 | 16227 | NS | 1 | 0.0 | 24.465  | 10.268 | 0.0 | 32.042  | 14.629 | 0.0 | 320.755 | 9.959  | 0.0 | 34.325  | 12.827 | 0.0 | 1.419 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.134 | 0.0 |
| 161 | 16226 | 16227 | SN | 1 | 0.0 | 28.397  | 13.443 | 0.0 | 26.378  | 13.231 | 0.0 | 179.276 | 11.382 | 0.0 | 79.419  | 13.525 | 0.0 | 1.456 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.139 | 0.0 |
| 162 | 16226 | 16227 | SN | 1 | 0.0 | 28.397  | 13.443 | 0.0 | 26.378  | 13.231 | 0.0 | 179.276 | 11.382 | 0.0 | 79.419  | 13.525 | 0.0 | 1.456 | 0.0 | 0.0 | 1.785 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.139 | 0.0 |
| 163 | 16226 | 16227 | SN | 1 | 0.0 | 22.11   | 6.09   | 0.0 | 24.823  | 7.607  | 0.0 | 177.908 | 2.368  | 0.0 | 69.095  | 3.429  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.138 | 0.0 |
| 164 | 16226 | 16227 | NS | 1 | 0.0 | 24.74   | 6.182  | 0.0 | 24.619  | 6.897  | 0.0 | 344.321 | 2.228  | 0.0 | 58.768  | 3.02   | 0.0 | 1.439 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.135 | 0.0 |
| 165 | 16226 | 16227 | SN | 1 | 0.0 | 22.11   | 6.017  | 0.0 | 24.823  | 7.61   | 0.0 | 177.908 | 2.337  | 0.0 | 69.095  | 3.569  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.138 | 0.0 |
| 166 | 16226 | 16227 | SN | 1 | 0.0 | 22.11   | 6.017  | 0.0 | 24.823  | 7.61   | 0.0 | 177.908 | 2.339  | 0.0 | 69.095  | 3.569  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.846 | 0.0 | 0.0 | 2.138 | 0.0 |
| 167 | 16227 | 16228 | SN | 1 | 0.0 | 22.115  | 6.013  | 0.0 | 24.829  | 7.658  | 0.0 | 135.509 | 2.341  | 0.0 | 64.542  | 3.561  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.138 | 0.0 |
| 168 | 16227 | 16228 | NS | 1 | 0.0 | 155.258 | 6.175  | 0.0 | 24.624  | 6.884  | 0.0 | 336.98  | 2.233  | 0.0 | 66.505  | 3.005  | 0.0 | 1.439 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.136 | 0.0 |
| 169 | 16227 | 16228 | NS | 1 | 0.0 | 258.32  | 6.187  | 0.0 | 24.624  | 6.883  | 0.0 | 336.98  | 2.226  | 0.0 | 67.024  | 3.027  | 0.0 | 1.439 | 0.0 | 0.0 | 1.777 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.135 | 0.0 |
| 170 | 16227 | 16228 | SN | 1 | 0.0 | 28.485  | 13.501 | 0.0 | 26.373  | 12.767 | 0.0 | 183.6   | 11.675 | 0.0 | 246.187 | 12.743 | 0.0 | 1.456 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.834 | 0.0 | 0.0 | 2.139 | 0.0 |
| 171 | 16227 | 16228 | SN | 1 | 0.0 | 22.115  | 6.015  | 0.0 | 24.829  | 7.653  | 0.0 | 135.509 | 2.34   | 0.0 | 44.82   | 3.56   | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.138 | 0.0 |
| 172 | 16227 | 16228 | NS | 1 | 0.0 | 218.648 | 10.267 | 0.0 | 29.941  | 14.619 | 0.0 | 331.157 | 9.952  | 0.0 | 35.158  | 12.863 | 0.0 | 1.419 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.134 | 0.0 |
| 173 | 16227 | 16228 | SN | 1 | 0.0 | 22.115  | 6.109  | 0.0 | 24.829  | 7.676  | 0.0 | 135.509 | 2.408  | 0.0 | 39.066  | 3.418  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.847 | 0.0 | 0.0 | 2.138 | 0.0 |
| 174 | 16227 | 16228 | NS | 1 | 0.0 | 153.626 | 10.219 | 0.0 | 29.946  | 14.654 | 0.0 | 342.258 | 9.986  | 0.0 | 73.327  | 12.876 | 0.0 | 1.42  | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.83  | 0.0 | 0.0 | 2.134 | 0.0 |
| 175 | 16227 | 16228 | SN | 1 | 0.0 | 28.485  | 13.433 | 0.0 | 26.373  | 13.211 | 0.0 | 183.6   | 11.375 | 0.0 | 246.187 | 13.483 | 0.0 | 1.456 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.834 | 0.0 | 0.0 | 2.139 | 0.0 |
| 176 | 16227 | 16228 | SN | 1 | 0.0 | 28.485  | 13.433 | 0.0 | 26.373  | 13.211 | 0.0 | 183.6   | 11.375 | 0.0 | 246.187 | 13.483 | 0.0 | 1.456 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.834 | 0.0 | 0.0 | 2.139 | 0.0 |
| 177 | 16228 | 16229 | NS | 1 | 0.0 | 24.056  | 10.214 | 0.0 | 29.941  | 14.579 | 0.0 | 354.595 | 10.021 | 0.0 | 36.664  | 12.83  | 0.0 | 1.419 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.829 | 0.0 | 0.0 | 2.134 | 0.0 |
| 178 | 16228 | 16229 | SN | 1 | 0.0 | 28.055  | 13.368 | 0.0 | 206.148 | 13.184 | 0.0 | 142.546 | 11.38  | 0.0 | 239.641 | 13.487 | 0.0 | 1.456 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.139 | 0.0 |
| 179 | 16228 | 16229 | SN | 1 | 0.0 | 28.055  | 13.368 | 0.0 | 206.148 | 13.184 | 0.0 | 142.546 | 11.38  | 0.0 | 239.641 | 13.487 | 0.0 | 1.456 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.139 | 0.0 |

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

|     |       |       |    |   |     |         |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 180 | 16228 | 16229 | SN | 1 | 0.0 | 22.115  | 6.0    | 0.0 | 161.675 | 7.691  | 0.0 | 142.425 | 2.323  | 0.0 | 115.319 | 3.532  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 181 | 16228 | 16229 | NS | 1 | 0.0 | 24.746  | 6.191  | 0.0 | 24.619  | 6.885  | 0.0 | 308.115 | 2.235  | 0.0 | 77.078  | 3.026  | 0.0 | 1.44  | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.135 | 0.0 |
| 182 | 16228 | 16229 | NS | 1 | 0.0 | 24.751  | 6.184  | 0.0 | 24.619  | 6.885  | 0.0 | 308.203 | 2.237  | 0.0 | 77.149  | 3.022  | 0.0 | 1.441 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.135 | 0.0 |
| 183 | 16228 | 16229 | NS | 1 | 0.0 | 24.045  | 10.214 | 0.0 | 29.941  | 14.599 | 0.0 | 354.59  | 10.014 | 0.0 | 36.647  | 12.83  | 0.0 | 1.419 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.829 | 0.0 | 0.0 | 2.134 | 0.0 |
| 184 | 16228 | 16229 | SN | 1 | 0.0 | 22.115  | 6.123  | 0.0 | 161.675 | 7.705  | 0.0 | 142.425 | 2.435  | 0.0 | 115.319 | 3.367  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 185 | 16228 | 16229 | SN | 1 | 0.0 | 28.055  | 13.492 | 0.0 | 206.148 | 12.636 | 0.0 | 142.546 | 11.845 | 0.0 | 239.641 | 12.623 | 0.0 | 1.456 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.139 | 0.0 |
| 186 | 16228 | 16229 | SN | 1 | 0.0 | 22.115  | 6.002  | 0.0 | 161.675 | 7.683  | 0.0 | 142.425 | 2.323  | 0.0 | 115.319 | 3.532  | 0.0 | 1.439 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 187 | 16229 | 16230 | SN | 1 | 0.0 | 28.468  | 13.397 | 0.0 | 187.824 | 13.195 | 0.0 | 156.83  | 11.384 | 0.0 | 70.73   | 13.605 | 0.0 | 1.455 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.139 | 0.0 |
| 188 | 16229 | 16230 | NS | 1 | 0.0 | 150.358 | 10.271 | 0.0 | 29.946  | 14.605 | 0.0 | 156.133 | 9.954  | 0.0 | 37.866  | 12.833 | 0.0 | 1.419 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.135 | 0.0 |
| 189 | 16229 | 16230 | SN | 1 | 0.0 | 28.468  | 13.397 | 0.0 | 187.824 | 13.195 | 0.0 | 156.83  | 11.384 | 0.0 | 70.73   | 13.605 | 0.0 | 1.455 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.139 | 0.0 |
| 190 | 16229 | 16230 | SN | 1 | 0.0 | 22.115  | 6.203  | 0.0 | 187.824 | 7.749  | 0.0 | 162.51  | 2.425  | 0.0 | 156.805 | 3.298  | 0.0 | 1.439 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 191 | 16229 | 16230 | NS | 1 | 0.0 | 150.358 | 10.271 | 0.0 | 29.946  | 14.605 | 0.0 | 156.133 | 9.954  | 0.0 | 37.866  | 12.833 | 0.0 | 1.419 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.135 | 0.0 |
| 192 | 16229 | 16230 | SN | 1 | 0.0 | 22.115  | 6.008  | 0.0 | 187.824 | 7.728  | 0.0 | 162.51  | 2.25   | 0.0 | 156.805 | 3.487  | 0.0 | 1.439 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 193 | 16229 | 16230 | NS | 1 | 0.0 | 121.443 | 6.218  | 0.0 | 24.63   | 6.861  | 0.0 | 299.815 | 2.243  | 0.0 | 53.65   | 3.049  | 0.0 | 1.441 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.135 | 0.0 |
| 194 | 16229 | 16230 | NS | 1 | 0.0 | 121.443 | 6.225  | 0.0 | 24.63   | 6.863  | 0.0 | 299.815 | 2.243  | 0.0 | 53.65   | 3.052  | 0.0 | 1.441 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.135 | 0.0 |
| 195 | 16229 | 16230 | SN | 1 | 0.0 | 28.468  | 13.535 | 0.0 | 187.824 | 12.486 | 0.0 | 156.83  | 11.981 | 0.0 | 14.433  | 12.581 | 0.0 | 1.455 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.139 | 0.0 |
| 196 | 16229 | 16230 | SN | 1 | 0.0 | 22.115  | 6.008  | 0.0 | 187.824 | 7.728  | 0.0 | 162.51  | 2.25   | 0.0 | 156.805 | 3.487  | 0.0 | 1.439 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.138 | 0.0 |
| 197 | 16230 | 16231 | SN | 1 | 0.0 | 23.4    | 5.986  | 0.0 | 248.343 | 7.75   | 0.0 | 147.074 | 2.247  | 0.0 | 180.051 | 3.405  | 0.0 | 1.439 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.138 | 0.0 |
| 198 | 16230 | 16231 | NS | 1 | 0.0 | 240.562 | 10.284 | 0.0 | 29.946  | 14.596 | 0.0 | 355.527 | 10.023 | 0.0 | 68.386  | 12.89  | 0.0 | 1.419 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.133 | 0.0 |
| 199 | 16230 | 16231 | NS | 1 | 0.0 | 24.746  | 6.194  | 0.0 | 24.624  | 6.897  | 0.0 | 332.982 | 2.247  | 0.0 | 49.299  | 3.076  | 0.0 | 1.439 | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.136 | 0.0 |
| 200 | 16230 | 16231 | SN | 1 | 0.0 | 28.474  | 13.379 | 0.0 | 38.994  | 13.205 | 0.0 | 153.245 | 11.441 | 0.0 | 76.493  | 13.62  | 0.0 | 1.455 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.137 | 0.0 |
| 201 | 16230 | 16231 | SN | 1 | 0.0 | 28.479  | 13.399 | 0.0 | 38.994  | 13.226 | 0.0 | 153.317 | 11.441 | 0.0 | 76.493  | 13.599 | 0.0 | 1.455 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.838 | 0.0 | 0.0 | 2.137 | 0.0 |
| 202 | 16230 | 16231 | SN | 1 | 0.0 | 23.4    | 5.981  | 0.0 | 58.087  | 7.757  | 0.0 | 146.997 | 2.247  | 0.0 | 124.14  | 3.407  | 0.0 | 1.439 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.138 | 0.0 |
| 203 | 16230 | 16231 | NS | 1 | 0.0 | 205.944 | 6.213  | 0.0 | 24.624  | 6.883  | 0.0 | 319.625 | 2.239  | 0.0 | 55.724  | 3.095  | 0.0 | 1.44  | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.136 | 0.0 |
| 204 | 16230 | 16231 | NS | 1 | 0.0 | 259.555 | 10.261 | 0.0 | 29.941  | 14.595 | 0.0 | 354.7   | 9.976  | 0.0 | 38.87   | 12.876 | 0.0 | 1.42  | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.84  | 0.0 | 0.0 | 2.135 | 0.0 |
| 205 | 16231 | 16232 | SN | 1 | 0.0 | 22.11   | 5.994  | 0.0 | 24.84   | 7.755  | 0.0 | 141.747 | 2.232  | 0.0 | 69.136  | 3.372  | 0.0 | 1.439 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.139 | 0.0 |
| 206 | 16231 | 16232 | NS | 1 | 0.0 | 219.158 | 6.177  | 0.0 | 24.636  | 6.881  | 0.0 | 317.226 | 2.271  | 0.0 | 50.639  | 3.037  | 0.0 | 1.44  | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.136 | 0.0 |
| 207 | 16231 | 16232 | SN | 1 | 0.0 | 28.535  | 13.323 | 0.0 | 25.772  | 13.15  | 0.0 | 148.05  | 11.356 | 0.0 | 70.151  | 13.49  | 0.0 | 1.456 | 0.0 | 0.0 | 1.786 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.132 | 0.0 |
| 208 | 16231 | 16232 | NS | 1 | 0.0 | 272.185 | 10.274 | 0.0 | 29.957  | 14.596 | 0.0 | 355.798 | 10.031 | 0.0 | 63.599  | 12.784 | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.134 | 0.0 |
| 209 | 16231 | 16232 | NS | 1 | 0.0 | 272.185 | 10.274 | 0.0 | 29.957  | 14.596 | 0.0 | 355.798 | 10.031 | 0.0 | 63.599  | 12.784 | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.134 | 0.0 |
| 210 | 16231 | 16232 | NS | 1 | 0.0 | 219.158 | 6.177  | 0.0 | 24.636  | 6.881  | 0.0 | 317.226 | 2.272  | 0.0 | 50.639  | 3.037  | 0.0 | 1.44  | 0.0 | 0.0 | 1.778 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.136 | 0.0 |
| 211 | 16232 | 16233 | NS | 1 | 0.0 | 121.443 | 6.164  | 0.0 | 24.63   | 6.899  | 0.0 | 327.539 | 2.251  | 0.0 | 43.425  | 3.022  | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.135 | 0.0 |
| 212 | 16232 | 16233 | NS | 1 | 0.0 | 208.977 | 10.24  | 0.0 | 29.952  | 14.542 | 0.0 | 355.858 | 10.036 | 0.0 | 53.584  | 12.869 | 0.0 | 1.417 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.83  | 0.0 | 0.0 | 2.133 | 0.0 |
| 213 | 16232 | 16233 | SN | 1 | 0.0 | 27.84   | 13.35  | 0.0 | 32.994  | 13.123 | 0.0 | 154.646 | 11.372 | 0.0 | 130.036 | 13.579 | 0.0 | 1.456 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.833 | 0.0 | 0.0 | 2.134 | 0.0 |
| 214 | 16232 | 16233 | SN | 1 | 0.0 | 22.104  | 6.009  | 0.0 | 24.851  | 7.74   | 0.0 | 144.184 | 2.249  | 0.0 | 188.288 | 3.421  | 0.0 | 1.439 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.14  | 0.0 |
| 215 | 16233 | 16234 | SN | 1 | 0.0 | 28.584  | 13.352 | 0.0 | 167.802 | 13.119 | 0.0 | 142.783 | 11.413 | 0.0 | 69.583  | 13.54  | 0.0 | 1.455 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.829 | 0.0 | 0.0 | 2.139 | 0.0 |
| 216 | 16233 | 16234 | NS | 1 | 0.0 | 153.135 | 6.214  | 0.0 | 24.624  | 6.879  | 0.0 | 325.123 | 2.234  | 0.0 | 75.793  | 3.047  | 0.0 | 1.439 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.135 | 0.0 |

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

|     |       |       |    |   |     |         |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 217 | 16233 | 16234 | NS | 1 | 0.0 | 153.135 | 6.214  | 0.0 | 24.624  | 6.877  | 0.0 | 325.123 | 2.231  | 0.0 | 75.793  | 3.044  | 0.0 | 1.439 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.135 | 0.0 |
| 218 | 16233 | 16234 | NS | 1 | 0.0 | 153.965 | 10.243 | 0.0 | 29.946  | 14.34  | 0.0 | 355.654 | 10.16  | 0.0 | 19.165  | 12.517 | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.136 | 0.0 |
| 219 | 16233 | 16234 | NS | 1 | 0.0 | 153.965 | 10.22  | 0.0 | 29.946  | 14.562 | 0.0 | 355.654 | 10.036 | 0.0 | 92.531  | 12.826 | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.136 | 0.0 |
| 220 | 16233 | 16234 | SN | 1 | 0.0 | 22.115  | 6.0    | 0.0 | 24.851  | 7.755  | 0.0 | 120.508 | 2.272  | 0.0 | 284.279 | 3.435  | 0.0 | 1.439 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.137 | 0.0 |
| 221 | 16233 | 16234 | NS | 1 | 0.0 | 153.965 | 10.22  | 0.0 | 29.946  | 14.562 | 0.0 | 355.654 | 10.036 | 0.0 | 92.531  | 12.826 | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.831 | 0.0 | 0.0 | 2.136 | 0.0 |
| 222 | 16233 | 16234 | NS | 1 | 0.0 | 153.135 | 6.262  | 0.0 | 24.624  | 6.891  | 0.0 | 325.123 | 2.27   | 0.0 | 12.85   | 2.962  | 0.0 | 1.439 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.844 | 0.0 | 0.0 | 2.135 | 0.0 |
| 223 | 16233 | 16234 | SN | 1 | 0.0 | 22.115  | 6.001  | 0.0 | 24.851  | 7.761  | 0.0 | 120.624 | 2.267  | 0.0 | 130.052 | 3.435  | 0.0 | 1.438 | 0.0 | 0.0 | 1.782 | 0.0 | 0.0 | 1.842 | 0.0 | 0.0 | 2.137 | 0.0 |
| 224 | 16233 | 16234 | SN | 1 | 0.0 | 28.584  | 13.322 | 0.0 | 26.715  | 13.069 | 0.0 | 142.866 | 11.413 | 0.0 | 140.999 | 13.497 | 0.0 | 1.455 | 0.0 | 0.0 | 1.784 | 0.0 | 0.0 | 1.829 | 0.0 | 0.0 | 2.139 | 0.0 |
| 225 | 16234 | 16235 | NS | 1 | 0.0 | 256.936 | 6.407  | 0.0 | 24.619  | 6.887  | 0.0 | 139.477 | 2.344  | 0.0 | 12.883  | 2.947  | 0.0 | 1.439 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.856 | 0.0 | 0.0 | 2.137 | 0.0 |
| 226 | 16234 | 16235 | NS | 1 | 0.0 | 24.062  | 10.284 | 0.0 | 29.941  | 14.542 | 0.0 | 355.781 | 10.07  | 0.0 | 63.886  | 12.89  | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.134 | 0.0 |
| 227 | 16234 | 16235 | NS | 1 | 0.0 | 24.757  | 6.262  | 0.0 | 24.624  | 6.888  | 0.0 | 139.477 | 2.226  | 0.0 | 41.484  | 3.033  | 0.0 | 1.439 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.852 | 0.0 | 0.0 | 2.135 | 0.0 |
| 228 | 16234 | 16235 | NS | 1 | 0.0 | 256.936 | 6.278  | 0.0 | 24.619  | 6.886  | 0.0 | 139.477 | 2.234  | 0.0 | 38.566  | 3.029  | 0.0 | 1.439 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.856 | 0.0 | 0.0 | 2.137 | 0.0 |
| 229 | 16234 | 16235 | NS | 1 | 0.0 | 237.903 | 10.294 | 0.0 | 29.941  | 14.502 | 0.0 | 355.781 | 10.078 | 0.0 | 63.886  | 12.89  | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.134 | 0.0 |
| 230 | 16234 | 16235 | NS | 1 | 0.0 | 237.903 | 10.39  | 0.0 | 29.941  | 14.021 | 0.0 | 355.781 | 10.459 | 0.0 | 13.23   | 12.197 | 0.0 | 1.418 | 0.0 | 0.0 | 1.78  | 0.0 | 0.0 | 1.85  | 0.0 | 0.0 | 2.134 | 0.0 |
| 231 | 16234 | 16235 | SN | 1 | 0.0 | 22.104  | 5.987  | 0.0 | 229.697 | 7.759  | 0.0 | 142.21  | 2.263  | 0.0 | 232.626 | 3.413  | 0.0 | 1.441 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.139 | 0.0 |
| 232 | 16234 | 16235 | SN | 1 | 0.0 | 28.099  | 13.37  | 0.0 | 229.708 | 13.169 | 0.0 | 138.686 | 11.387 | 0.0 | 78.917  | 13.58  | 0.0 | 1.458 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.832 | 0.0 | 0.0 | 2.135 | 0.0 |
| 233 | 16235 | 16236 | NS | 1 | 0.0 | 79.333  | 6.269  | 0.0 | 24.619  | 6.872  | 0.0 | 301.276 | 2.227  | 0.0 | 54.521  | 3.036  | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.861 | 0.0 | 0.0 | 2.137 | 0.0 |
| 234 | 16235 | 16236 | NS | 1 | 0.0 | 79.333  | 6.269  | 0.0 | 24.619  | 6.872  | 0.0 | 301.276 | 2.227  | 0.0 | 54.521  | 3.04   | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.861 | 0.0 | 0.0 | 2.137 | 0.0 |
| 235 | 16235 | 16236 | NS | 1 | 0.0 | 105.422 | 10.279 | 0.0 | 29.93   | 14.589 | 0.0 | 204.758 | 9.932  | 0.0 | 66.875  | 12.879 | 0.0 | 1.417 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.135 | 0.0 |
| 236 | 16235 | 16236 | SN | 1 | 0.0 | 86.249  | 5.997  | 0.0 | 24.851  | 7.755  | 0.0 | 152.225 | 2.256  | 0.0 | 121.057 | 3.418  | 0.0 | 1.442 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.138 | 0.0 |
| 237 | 16235 | 16236 | SN | 1 | 0.0 | 86.249  | 5.997  | 0.0 | 24.851  | 7.755  | 0.0 | 152.225 | 2.256  | 0.0 | 121.057 | 3.418  | 0.0 | 1.442 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.138 | 0.0 |
| 238 | 16235 | 16236 | NS | 1 | 0.0 | 79.333  | 6.546  | 0.0 | 24.619  | 7.009  | 0.0 | 301.276 | 2.454  | 0.0 | 12.883  | 3.08   | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.861 | 0.0 | 0.0 | 2.137 | 0.0 |
| 239 | 16235 | 16236 | SN | 1 | 0.0 | 86.282  | 13.385 | 0.0 | 26.373  | 13.226 | 0.0 | 148.701 | 11.405 | 0.0 | 75.004  | 13.634 | 0.0 | 1.457 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.133 | 0.0 |
| 240 | 16235 | 16236 | NS | 1 | 0.0 | 105.422 | 10.466 | 0.0 | 29.93   | 13.956 | 0.0 | 204.758 | 10.818 | 0.0 | 13.208  | 11.994 | 0.0 | 1.417 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.135 | 0.0 |
| 241 | 16235 | 16236 | SN | 1 | 0.0 | 86.282  | 13.385 | 0.0 | 26.373  | 13.226 | 0.0 | 148.701 | 11.405 | 0.0 | 75.004  | 13.634 | 0.0 | 1.457 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.839 | 0.0 | 0.0 | 2.133 | 0.0 |
| 242 | 16235 | 16236 | NS | 1 | 0.0 | 105.422 | 10.279 | 0.0 | 29.93   | 14.589 | 0.0 | 204.758 | 9.932  | 0.0 | 66.88   | 12.879 | 0.0 | 1.417 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.837 | 0.0 | 0.0 | 2.135 | 0.0 |
| 243 | 16236 | 16237 | SN | 1 | 0.0 | 28.408  | 13.241 | 0.0 | 189.118 | 12.555 | 0.0 | 154.635 | 11.984 | 0.0 | 14.422  | 12.665 | 0.0 | 1.455 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.135 | 0.0 |
| 244 | 16236 | 16237 | NS | 1 | 0.0 | 24.178  | 10.53  | 0.0 | 29.919  | 13.866 | 0.0 | 347.404 | 11.531 | 0.0 | 13.225  | 12.082 | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.855 | 0.0 | 0.0 | 2.136 | 0.0 |
| 245 | 16236 | 16237 | NS | 1 | 0.0 | 24.773  | 6.253  | 0.0 | 24.613  | 6.874  | 0.0 | 329.59  | 2.233  | 0.0 | 50.225  | 3.067  | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.867 | 0.0 | 0.0 | 2.137 | 0.0 |
| 246 | 16236 | 16237 | NS | 1 | 0.0 | 24.178  | 10.254 | 0.0 | 29.919  | 14.555 | 0.0 | 347.409 | 9.974  | 0.0 | 74.226  | 12.905 | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.855 | 0.0 | 0.0 | 2.136 | 0.0 |
| 247 | 16236 | 16237 | NS | 1 | 0.0 | 24.773  | 6.253  | 0.0 | 24.613  | 6.881  | 0.0 | 329.585 | 2.235  | 0.0 | 50.225  | 3.062  | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.867 | 0.0 | 0.0 | 2.137 | 0.0 |
| 248 | 16236 | 16237 | SN | 1 | 0.0 | 28.408  | 13.152 | 0.0 | 189.118 | 13.165 | 0.0 | 154.635 | 11.461 | 0.0 | 77.635  | 13.613 | 0.0 | 1.455 | 0.0 | 0.0 | 1.783 | 0.0 | 0.0 | 1.841 | 0.0 | 0.0 | 2.135 | 0.0 |
| 249 | 16236 | 16237 | NS | 1 | 0.0 | 24.773  | 6.731  | 0.0 | 24.613  | 7.093  | 0.0 | 329.585 | 2.624  | 0.0 | 12.894  | 3.305  | 0.0 | 1.441 | 0.0 | 0.0 | 1.779 | 0.0 | 0.0 | 1.867 | 0.0 | 0.0 | 2.137 | 0.0 |
| 250 | 16236 | 16237 | NS | 1 | 0.0 | 24.178  | 10.243 | 0.0 | 29.919  | 14.545 | 0.0 | 347.404 | 9.981  | 0.0 | 74.226  | 12.905 | 0.0 | 1.418 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.855 | 0.0 | 0.0 | 2.136 | 0.0 |
| 251 | 16236 | 16237 | SN | 1 | 0.0 | 23.389  | 6.133  | 0.0 | 24.856  | 7.712  | 0.0 | 142.254 | 2.307  | 0.0 | 12.977  | 3.162  | 0.0 | 1.442 | 0.0 | 0.0 | 1.781 | 0.0 | 0.0 | 1.843 | 0.0 | 0.0 | 2.137 | 0.0 |
| 252 | 16236 | 16237 | SN | 1 | 0.0 | 23.389  | 5.985  | 0.0 | 24.856  | 7.704  | 0.0 | 142.254 | 2.171  | 0.0 | 52.144  | 3.351  | 0.0 | 1.442 | 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 |