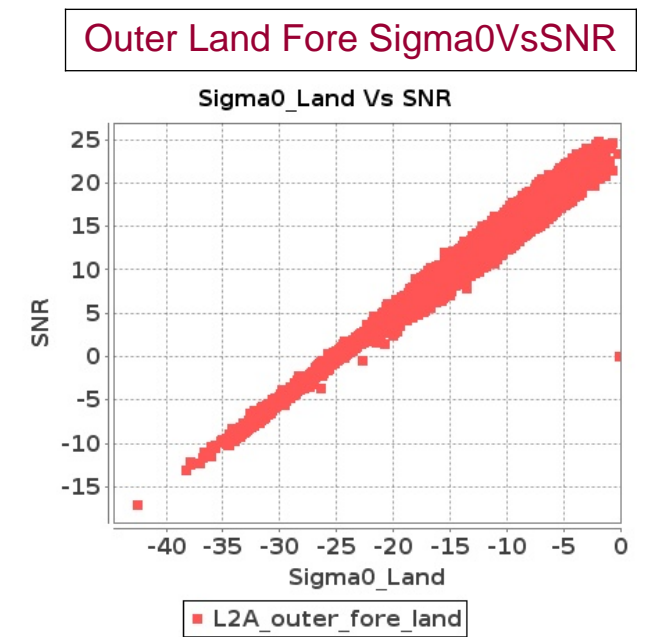
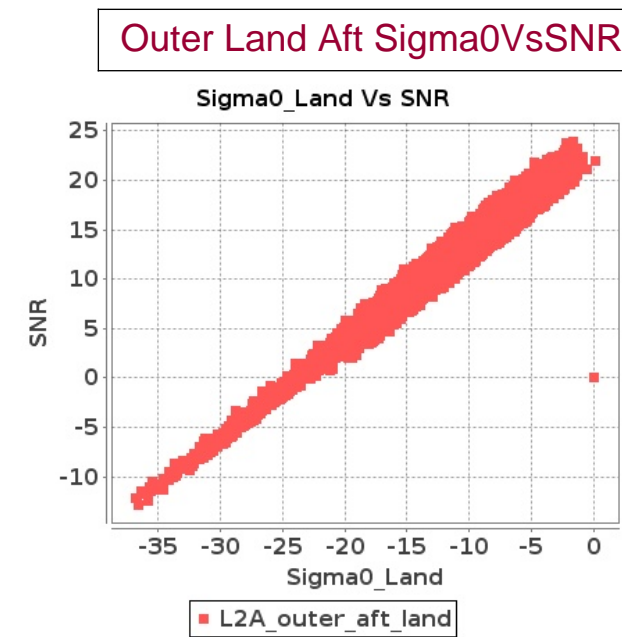
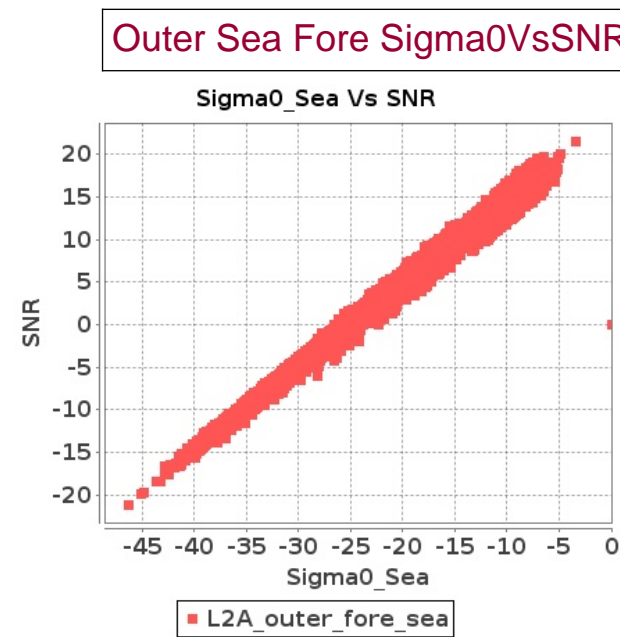
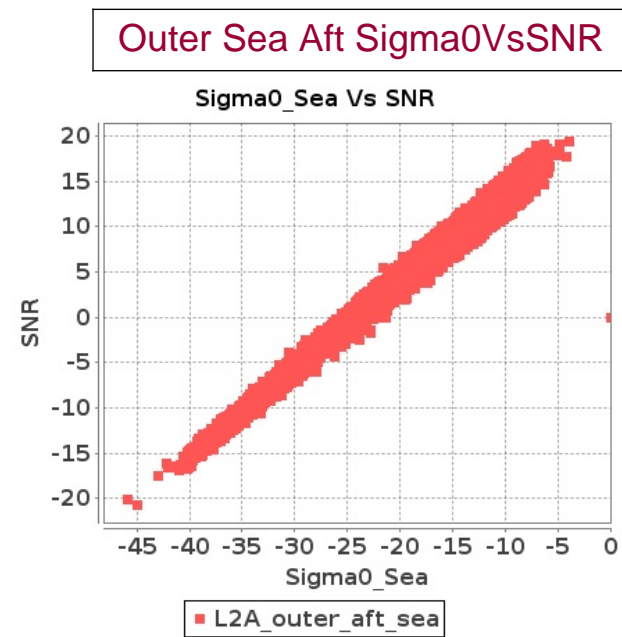
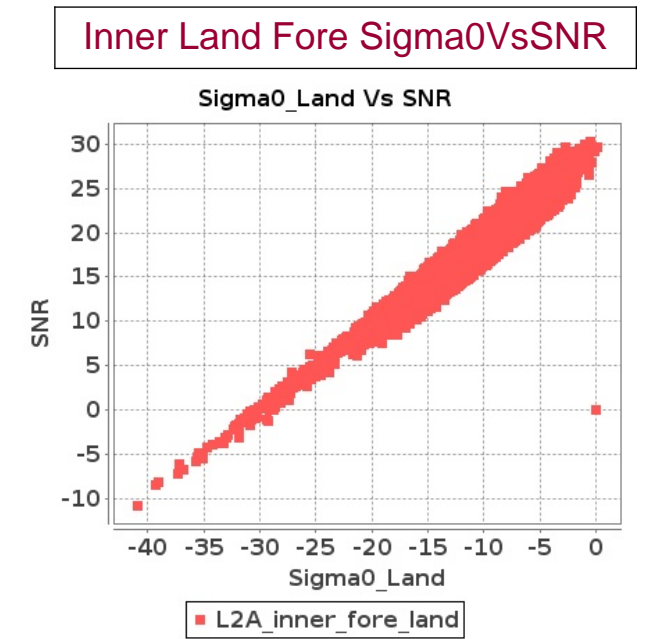
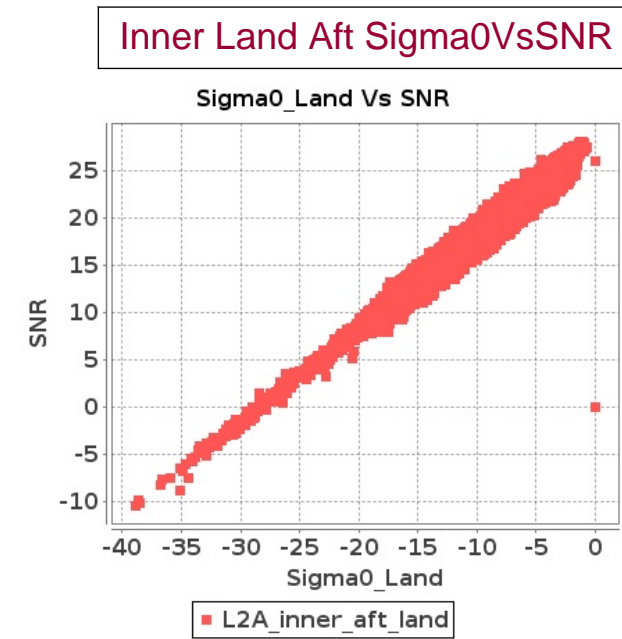
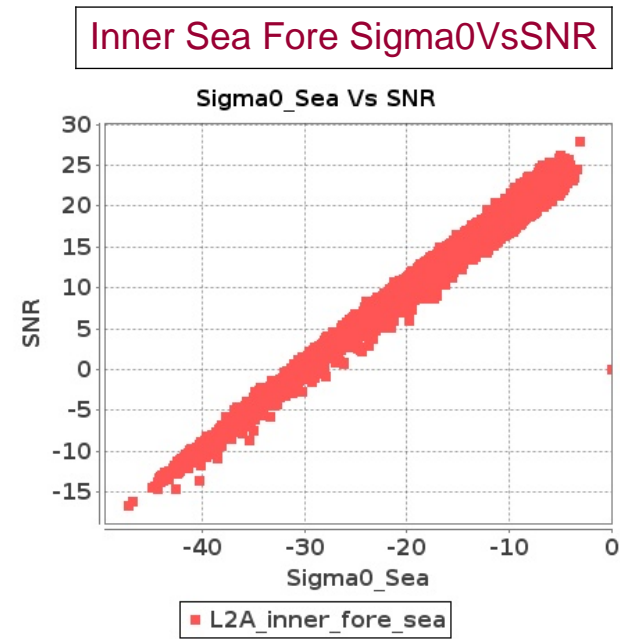
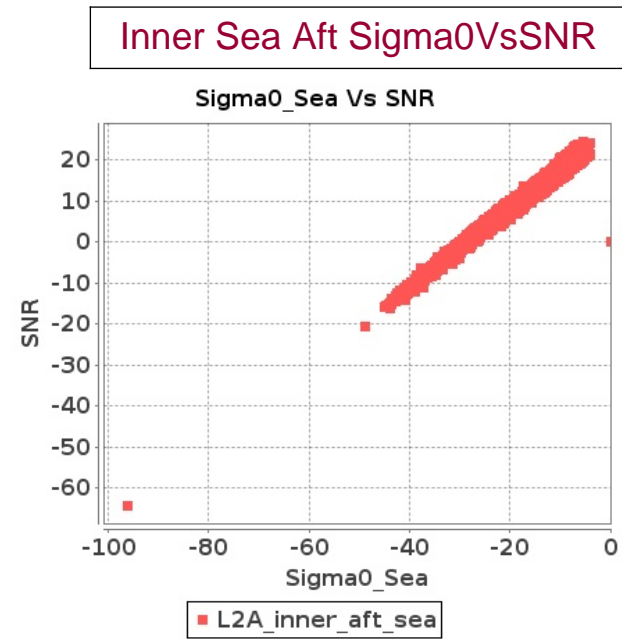


# SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 19-SEP-2017 To 20-SEP-2017



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

Report between 19-SEP-2017 To 20-SEP-2017

| Sr No | Start Orbit | End Orbit | Dir. | Ver. | SNR       |        |            |            |        |            |           |        |            |            |        |            | Sigma0    |        |            |            |        |            |           |        |            |            |        |            |
|-------|-------------|-----------|------|------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|
|       |             |           |      |      | Inner Aft |        |            | Inner Fore |        |            | Outer Aft |        |            | Outer Fore |        |            | Inner Aft |        |            | Inner Fore |        |            | Outer Aft |        |            | Outer Fore |        |            |
|       |             |           |      |      | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) | Min       | Max    | BadOcc (%) | Min        | Max    | BadOcc (%) |
| 1     | 5188        | 5189      | SN   | 1    | 0.0       | 44.451 | 3.169      | 0.0        | 53.576 | 2.886      | 0.0       | 46.56  | 1.863      | 0.0        | 42.572 | 1.715      | 0.0       | 44.642 | 3.002      | 0.0        | 51.003 | 2.793      | 0.0       | 43.524 | 1.81       | 0.0        | 39.973 | 1.66       |
| 2     | 5188        | 5189      | SN   | 1    | 0.0       | 44.451 | 3.114      | 0.0        | 53.576 | 2.871      | 0.0       | 46.56  | 1.841      | 0.0        | 42.572 | 1.72       | 0.0       | 44.642 | 2.953      | 0.0        | 51.003 | 2.772      | 0.0       | 43.524 | 1.784      | 0.0        | 39.973 | 1.659      |
| 3     | 5188        | 5189      | SN   | 1    | 0.0       | 44.451 | 3.116      | 0.0        | 53.576 | 2.871      | 0.0       | 46.56  | 1.839      | 0.0        | 42.572 | 1.72       | 0.0       | 44.642 | 2.956      | 0.0        | 51.003 | 2.769      | 0.0       | 43.524 | 1.784      | 0.0        | 39.973 | 1.659      |
| 4     | 5188        | 5189      | NS   | 1    | 0.0       | 51.243 | 13.316     | 0.0        | 53.293 | 11.96      | 0.0       | 45.35  | 8.977      | 0.0        | 47.241 | 8.32       | 0.0       | 52.428 | 12.71      | 0.0        | 54.273 | 11.272     | 0.0       | 46.655 | 8.757      | 0.0        | 45.61  | 7.909      |
| 5     | 5188        | 5189      | NS   | 1    | 0.0       | 51.243 | 13.316     | 0.0        | 53.293 | 11.96      | 0.0       | 45.35  | 8.977      | 0.0        | 47.241 | 8.32       | 0.0       | 52.428 | 12.71      | 0.0        | 54.273 | 11.272     | 0.0       | 46.655 | 8.757      | 0.0        | 45.61  | 7.909      |
| 6     | 5188        | 5189      | SN   | 1    | 0.0       | 51.718 | 9.981      | 0.0        | 55.197 | 9.566      | 0.0       | 44.164 | 6.412      | 0.0        | 45.814 | 6.347      | 0.0       | 56.143 | 9.9        | 0.0        | 53.235 | 9.312      | 0.0       | 45.351 | 6.484      | 0.0        | 45.61  | 6.354      |
| 7     | 5188        | 5189      | NS   | 1    | 0.0       | 52.33  | 4.38       | 0.0        | 50.862 | 3.658      | 0.0       | 39.828 | 2.652      | 0.0        | 45.469 | 2.571      | 0.0       | 52.396 | 4.037      | 0.0        | 52.064 | 3.374      | 0.0       | 41.324 | 2.609      | 0.0        | 46.378 | 2.336      |
| 8     | 5188        | 5189      | SN   | 1    | 0.0       | 51.718 | 10.135     | 0.0        | 55.197 | 9.499      | 0.0       | 53.865 | 6.516      | 0.0        | 45.814 | 6.314      | 0.0       | 56.143 | 10.063     | 0.0        | 53.235 | 9.238      | 0.0       | 51.001 | 6.589      | 0.0        | 45.61  | 6.351      |
| 9     | 5188        | 5189      | SN   | 1    | 0.0       | 51.718 | 9.971      | 0.0        | 55.197 | 9.566      | 0.0       | 44.164 | 6.412      | 0.0        | 45.814 | 6.347      | 0.0       | 56.143 | 9.89       | 0.0        | 53.235 | 9.312      | 0.0       | 45.351 | 6.484      | 0.0        | 45.61  | 6.354      |
| 10    | 5188        | 5189      | NS   | 1    | 0.0       | 52.33  | 4.38       | 0.0        | 50.862 | 3.658      | 0.0       | 39.828 | 2.652      | 0.0        | 45.469 | 2.571      | 0.0       | 52.396 | 4.037      | 0.0        | 52.064 | 3.374      | 0.0       | 41.324 | 2.609      | 0.0        | 46.378 | 2.336      |
| 11    | 5189        | 5190      | NS   | 1    | 0.0       | 51.704 | 6.944      | 0.0        | 53.443 | 5.635      | 0.0       | 44.323 | 4.615      | 0.0        | 49.41  | 4.241      | 0.0       | 52.795 | 6.115      | 0.0        | 53.603 | 5.099      | 0.0       | 46.691 | 4.211      | 0.0        | 50.088 | 3.936      |
| 12    | 5189        | 5190      | NS   | 1    | 0.0       | 52.004 | 6.923      | 0.0        | 53.562 | 5.676      | 0.0       | 42.513 | 4.565      | 0.0        | 51.096 | 4.284      | 0.0       | 52.248 | 6.186      | 0.0        | 53.722 | 5.13       | 0.0       | 45.322 | 4.175      | 0.0        | 51.702 | 3.957      |
| 13    | 5189        | 5190      | SN   | 1    | 0.0       | 44.547 | 1.696      | 0.0        | 43.732 | 1.672      | 0.0       | 37.734 | 1.23       | 0.0        | 40.16  | 1.267      | 0.0       | 47.749 | 1.664      | 0.0        | 41.929 | 1.722      | 0.0       | 35.738 | 1.185      | 0.0        | 36.887 | 1.209      |
| 14    | 5189        | 5190      | SN   | 1    | 0.0       | 43.751 | 1.722      | 0.0        | 42.351 | 1.683      | 0.0       | 36.777 | 1.234      | 0.0        | 37.648 | 1.26       | 0.0       | 46.954 | 1.669      | 0.0        | 40.05  | 1.731      | 0.0       | 35.305 | 1.203      | 0.0        | 36.952 | 1.235      |
| 15    | 5189        | 5190      | SN   | 1    | 0.0       | 48.2   | 5.686      | 0.0        | 52.59  | 5.853      | 0.0       | 41.031 | 4.016      | 0.0        | 39.594 | 3.993      | 0.0       | 49.409 | 5.737      | 0.0        | 52.015 | 5.73       | 0.0       | 41.814 | 3.886      | 0.0        | 40.931 | 4.0        |
| 16    | 5189        | 5190      | SN   | 1    | 0.0       | 44.547 | 1.693      | 0.0        | 43.732 | 1.653      | 0.0       | 37.734 | 1.232      | 0.0        | 40.16  | 1.252      | 0.0       | 47.749 | 1.664      | 0.0        | 41.929 | 1.703      | 0.0       | 35.738 | 1.186      | 0.0        | 36.887 | 1.195      |
| 17    | 5189        | 5190      | SN   | 1    | 0.0       | 48.2   | 5.706      | 0.0        | 52.59  | 5.794      | 0.0       | 41.031 | 4.005      | 0.0        | 39.594 | 3.952      | 0.0       | 49.409 | 5.736      | 0.0        | 52.015 | 5.672      | 0.0       | 41.814 | 3.884      | 0.0        | 40.931 | 3.959      |
| 18    | 5189        | 5190      | NS   | 1    | 0.0       | 42.267 | 2.159      | 0.0        | 50.726 | 1.72       | 0.0       | 44.589 | 1.475      | 0.0        | 45.104 | 1.386      | 0.0       | 41.388 | 1.846      | 0.0        | 53.828 | 1.479      | 0.0       | 46.479 | 1.288      | 0.0        | 45.103 | 1.224      |
| 19    | 5189        | 5190      | NS   | 1    | 0.0       | 42.006 | 2.168      | 0.0        | 51.241 | 1.738      | 0.0       | 39.427 | 1.503      | 0.0        | 41.747 | 1.399      | 0.0       | 41.363 | 1.837      | 0.0        | 54.344 | 1.476      | 0.0       | 37.839 | 1.318      | 0.0        | 41.746 | 1.243      |
| 20    | 5189        | 5190      | SN   | 1    | 0.0       | 47.403 | 5.737      | 0.0        | 52.425 | 5.763      | 0.0       | 41.059 | 3.973      | 0.0        | 44.105 | 3.921      | 0.0       | 48.613 | 5.788      | 0.0        | 51.813 | 5.701      | 0.0       | 41.841 | 3.836      | 0.0        | 40.754 | 3.921      |
| 21    | 5190        | 5191      | SN   | 1    | 0.0       | 45.72  | 2.019      | 0.0        | 41.891 | 1.614      | 0.0       | 38.143 | 1.588      | 0.0        | 40.852 | 1.539      | 0.0       | 47.733 | 1.707      | 0.0        | 40.846 | 1.397      | 0.0       | 35.298 | 1.389      | 0.0        | 40.46  | 1.324      |
| 22    | 5190        | 5191      | SN   | 1    | 0.0       | 43.526 | 6.184      | 0.0        | 48.273 | 4.954      | 0.0       | 41.701 | 4.389      | 0.0        | 42.994 | 4.68       | 0.0       | 44.633 | 5.509      | 0.0        | 46.498 | 4.336      | 0.0       | 40.833 | 4.021      | 0.0        | 41.785 | 4.187      |
| 23    | 5190        | 5191      | SN   | 1    | 0.0       | 43.526 | 6.108      | 0.0        | 48.273 | 4.899      | 0.0       | 41.701 | 4.424      | 0.0        | 42.994 | 4.615      | 0.0       | 44.633 | 5.453      | 0.0        | 46.498 | 4.27       | 0.0       | 40.833 | 4.026      | 0.0        | 41.785 | 4.13       |
| 24    | 5190        | 5191      | SN   | 1    | 0.0       | 43.526 | 6.108      | 0.0        | 48.273 | 4.899      | 0.0       | 41.701 | 4.424      | 0.0        | 42.994 | 4.615      | 0.0       | 44.633 | 5.453      | 0.0        | 46.498 | 4.27       | 0.0       | 40.833 | 4.026      | 0.0        | 41.785 | 4.13       |
| 25    | 5190        | 5191      | NS   | 1    | 0.0       | 43.202 | 3.912      | 0.0        | 44.739 | 3.025      | 0.0       | 38.267 | 3.013      | 0.0        | 48.502 | 3.206      | 0.0       | 43.557 | 3.043      | 0.0        | 44.252 | 2.428      | 0.0       | 35.077 | 2.687      | 0.0        | 44.893 | 2.887      |
| 26    | 5190        | 5191      | NS   | 1    | 0.0       | 45.483 | 1.59       | 0.0        | 42.982 | 1.163      | 0.0       | 41.848 | 0.886      | 0.0        | 41.655 | 1.077      | 0.0       | 46.906 | 1.25       | 0.0        | 40.743 | 1.048      | 0.0       | 37.182 | 0.801      | 0.0        | 37.478 | 0.898      |
| 27    | 5190        | 5191      | SN   | 1    | 0.0       | 45.72  | 2.043      | 0.0        | 41.891 | 1.637      | 0.0       | 38.143 | 1.584      | 0.0        | 40.852 | 1.561      | 0.0       | 47.733 | 1.727      | 0.0        | 40.846 | 1.419      | 0.0       | 35.298 | 1.393      | 0.0        | 40.46  | 1.342      |
| 28    | 5190        | 5191      | SN   | 1    | 0.0       | 45.72  | 2.019      | 0.0        | 41.891 | 1.614      | 0.0       | 38.143 | 1.588      | 0.0        | 40.852 | 1.539      | 0.0       | 47.733 | 1.707      | 0.0        | 40.846 | 1.397      | 0.0       | 35.298 | 1.389      | 0.0        | 40.46  | 1.324      |
| 29    | 5191        | 5192      | NS   | 1    | 0.0       | 49.546 | 1.961      | 0.0        | 55.573 | 1.796      | 0.0       | 39.029 | 1.073      | 0.0        | 41.272 | 1.064      | 0.0       | 47.809 | 1.722      | 0.0        | 51.944 | 1.586      | 0.0       | 39.199 | 0.916      | 0.0        | 38.222 | 0.901      |
| 30    | 5191        | 5192      | NS   | 1    | 0.0       | 54.894 | 6.713      | 0.0        | 52.412 | 6.451      | 0.0       | 44.671 | 4.076      | 0.0        | 49.855 | 4.387      | 0.0       | 53.1   | 6.076      | 0.0        | 54.849 | 5.589      | 0.0       | 41.68  | 3.828      | 0.0        | 46.393 | 3.726      |
| 31    | 5191        | 5192      | NS   | 1    | 0.0       | 48.562 | 6.609      | 0.0        | 53.653 | 6.19       | 0.0       | 46.744 | 4.024      | 0.0        | 43.772 | 4.162      | 0.0       | 48.44  | 6.093      | 0.0        | 55.041 | 5.502      | 0.0       | 43.696 | 3.677      | 0.0        | 46.147 | 3.56       |

|                          |            |      |        |  |  |
|--------------------------|------------|------|--------|--|--|
| 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 | 5191 | 5192 | SN | 1 | 0.0 | 49.662 | 6.612  | 0.0 | 41.706 | 5.699 | 0.0 | 42.968 | 4.51  | 0.0 | 38.273 | 4.578 | 0.0 | 47.294 | 5.766 | 0.0 | 42.002 | 5.014 | 0.0 | 40.95  | 4.284 | 0.0 | 40.435 | 4.06  |
| 33 | 5191 | 5192 | SN | 1 | 0.0 | 49.662 | 6.522  | 0.0 | 41.706 | 5.579 | 0.0 | 43.714 | 4.41  | 0.0 | 38.273 | 4.53  | 0.0 | 47.294 | 5.645 | 0.0 | 42.002 | 4.91  | 0.0 | 41.452 | 4.14  | 0.0 | 40.435 | 3.995 |
| 34 | 5191 | 5192 | SN | 1 | 0.0 | 49.662 | 6.532  | 0.0 | 41.706 | 5.589 | 0.0 | 43.714 | 4.417 | 0.0 | 38.273 | 4.53  | 0.0 | 47.294 | 5.645 | 0.0 | 42.002 | 4.91  | 0.0 | 41.452 | 4.154 | 0.0 | 40.435 | 3.995 |
| 35 | 5191 | 5192 | SN | 1 | 0.0 | 42.92  | 2.042  | 0.0 | 40.476 | 1.684 | 0.0 | 40.437 | 1.51  | 0.0 | 40.64  | 1.486 | 0.0 | 41.769 | 1.752 | 0.0 | 38.832 | 1.462 | 0.0 | 39.691 | 1.284 | 0.0 | 41.961 | 1.307 |
| 36 | 5191 | 5192 | NS | 1 | 0.0 | 44.334 | 1.986  | 0.0 | 47.283 | 1.855 | 0.0 | 40.915 | 1.137 | 0.0 | 42.928 | 1.131 | 0.0 | 46.644 | 1.714 | 0.0 | 48.629 | 1.591 | 0.0 | 37.719 | 1.007 | 0.0 | 40.995 | 1.004 |
| 37 | 5191 | 5192 | SN | 1 | 0.0 | 42.892 | 2.055  | 0.0 | 40.476 | 1.717 | 0.0 | 40.437 | 1.533 | 0.0 | 40.64  | 1.508 | 0.0 | 41.605 | 1.773 | 0.0 | 38.832 | 1.492 | 0.0 | 39.691 | 1.299 | 0.0 | 41.961 | 1.327 |
| 38 | 5191 | 5192 | SN | 1 | 0.0 | 42.92  | 2.042  | 0.0 | 40.476 | 1.684 | 0.0 | 40.437 | 1.51  | 0.0 | 40.64  | 1.486 | 0.0 | 41.769 | 1.75  | 0.0 | 38.832 | 1.462 | 0.0 | 39.691 | 1.282 | 0.0 | 41.961 | 1.307 |
| 39 | 5192 | 5193 | NS | 1 | 0.0 | 46.859 | 2.079  | 0.0 | 52.422 | 1.927 | 0.0 | 40.292 | 1.227 | 0.0 | 44.914 | 1.345 | 0.0 | 47.278 | 1.91  | 0.0 | 54.561 | 1.773 | 0.0 | 39.122 | 1.156 | 0.0 | 41.542 | 1.163 |
| 40 | 5192 | 5193 | SN | 1 | 0.0 | 42.058 | 3.354  | 0.0 | 40.898 | 2.988 | 0.0 | 39.438 | 2.308 | 0.0 | 40.075 | 2.228 | 0.0 | 43.312 | 3.275 | 0.0 | 42.047 | 2.908 | 0.0 | 38.139 | 2.244 | 0.0 | 39.99  | 2.102 |
| 41 | 5192 | 5193 | SN | 1 | 0.0 | 42.058 | 3.354  | 0.0 | 40.898 | 2.988 | 0.0 | 39.438 | 2.308 | 0.0 | 40.075 | 2.228 | 0.0 | 43.312 | 3.275 | 0.0 | 42.047 | 2.908 | 0.0 | 38.139 | 2.244 | 0.0 | 39.99  | 2.102 |
| 42 | 5192 | 5193 | SN | 1 | 0.0 | 48.919 | 10.437 | 0.0 | 46.517 | 9.209 | 0.0 | 40.183 | 6.656 | 0.0 | 47.115 | 6.673 | 0.0 | 48.92  | 9.934 | 0.0 | 46.563 | 9.067 | 0.0 | 40.071 | 6.585 | 0.0 | 48.213 | 6.444 |
| 43 | 5192 | 5193 | SN | 1 | 0.0 | 48.919 | 10.437 | 0.0 | 46.517 | 9.209 | 0.0 | 40.183 | 6.656 | 0.0 | 47.115 | 6.673 | 0.0 | 48.92  | 9.934 | 0.0 | 46.563 | 9.067 | 0.0 | 40.071 | 6.585 | 0.0 | 48.213 | 6.444 |
| 44 | 5192 | 5193 | NS | 1 | 0.0 | 54.957 | 6.018  | 0.0 | 52.796 | 5.775 | 0.0 | 44.241 | 4.22  | 0.0 | 48.028 | 4.481 | 0.0 | 55.015 | 5.624 | 0.0 | 51.515 | 5.411 | 0.0 | 46.718 | 4.021 | 0.0 | 48.909 | 4.013 |
| 45 | 5192 | 5193 | NS | 1 | 0.0 | 54.25  | 6.008  | 0.0 | 52.504 | 5.694 | 0.0 | 48.15  | 4.234 | 0.0 | 48.302 | 4.481 | 0.0 | 54.308 | 5.583 | 0.0 | 51.952 | 5.441 | 0.0 | 52.731 | 4.028 | 0.0 | 45.696 | 4.056 |
| 46 | 5192 | 5193 | NS | 1 | 0.0 | 45.688 | 2.075  | 0.0 | 58.272 | 1.911 | 0.0 | 42.55  | 1.182 | 0.0 | 45.615 | 1.383 | 0.0 | 44.725 | 1.894 | 0.0 | 57.479 | 1.769 | 0.0 | 42.411 | 1.14  | 0.0 | 42.244 | 1.16  |
| 47 | 5193 | 5194 | NS | 1 | 0.0 | 45.103 | 1.68   | 0.0 | 49.424 | 1.48  | 0.0 | 40.366 | 1.343 | 0.0 | 49.407 | 1.391 | 0.0 | 40.888 | 1.318 | 0.0 | 49.736 | 1.224 | 0.0 | 39.766 | 1.15  | 0.0 | 45.404 | 1.115 |
| 48 | 5193 | 5194 | SN | 1 | 0.0 | 48.749 | 9.715  | 0.0 | 51.345 | 8.098 | 0.0 | 46.905 | 5.945 | 0.0 | 45.477 | 5.545 | 0.0 | 48.216 | 8.909 | 0.0 | 54.119 | 7.215 | 0.0 | 46.72  | 5.881 | 0.0 | 43.843 | 5.131 |
| 49 | 5193 | 5194 | NS | 1 | 0.0 | 51.51  | 4.744  | 0.0 | 55.825 | 4.43  | 0.0 | 49.205 | 4.149 | 0.0 | 45.193 | 4.616 | 0.0 | 51.431 | 3.833 | 0.0 | 56.902 | 3.742 | 0.0 | 48.498 | 3.496 | 0.0 | 46.053 | 3.914 |
| 50 | 5193 | 5194 | SN | 1 | 0.0 | 45.273 | 2.947  | 0.0 | 43.857 | 2.441 | 0.0 | 37.912 | 2.078 | 0.0 | 42.224 | 1.875 | 0.0 | 48.44  | 2.713 | 0.0 | 43.98  | 2.061 | 0.0 | 38.848 | 1.85  | 0.0 | 41.596 | 1.69  |
| 51 | 5193 | 5194 | NS | 1 | 0.0 | 43.621 | 1.671  | 0.0 | 49.153 | 1.49  | 0.0 | 43.166 | 1.32  | 0.0 | 42.375 | 1.379 | 0.0 | 43.867 | 1.309 | 0.0 | 49.465 | 1.233 | 0.0 | 42.932 | 1.134 | 0.0 | 40.952 | 1.092 |
| 52 | 5193 | 5194 | SN | 1 | 0.0 | 48.749 | 9.849  | 0.0 | 51.345 | 8.213 | 0.0 | 46.905 | 6.016 | 0.0 | 45.477 | 5.61  | 0.0 | 48.216 | 9.01  | 0.0 | 54.119 | 7.317 | 0.0 | 46.72  | 5.951 | 0.0 | 43.843 | 5.197 |
| 53 | 5193 | 5194 | NS | 1 | 0.0 | 48.126 | 4.764  | 0.0 | 49.318 | 4.369 | 0.0 | 48.817 | 4.113 | 0.0 | 43.593 | 4.517 | 0.0 | 46.263 | 3.924 | 0.0 | 48.317 | 3.701 | 0.0 | 47.271 | 3.581 | 0.0 | 43.739 | 3.779 |
| 54 | 5193 | 5194 | SN | 1 | 0.0 | 45.273 | 2.904  | 0.0 | 43.857 | 2.406 | 0.0 | 37.912 | 2.045 | 0.0 | 42.224 | 1.848 | 0.0 | 48.44  | 2.671 | 0.0 | 43.98  | 2.032 | 0.0 | 38.848 | 1.82  | 0.0 | 41.596 | 1.668 |
| 55 | 5193 | 5194 | SN | 1 | 0.0 | 48.749 | 9.716  | 0.0 | 51.345 | 8.098 | 0.0 | 46.905 | 5.952 | 0.0 | 45.477 | 5.545 | 0.0 | 48.216 | 8.909 | 0.0 | 54.119 | 7.215 | 0.0 | 46.72  | 5.881 | 0.0 | 43.843 | 5.131 |
| 56 | 5193 | 5194 | SN | 1 | 0.0 | 45.273 | 2.904  | 0.0 | 43.857 | 2.406 | 0.0 | 37.912 | 2.045 | 0.0 | 42.224 | 1.848 | 0.0 | 48.44  | 2.671 | 0.0 | 43.98  | 2.032 | 0.0 | 38.848 | 1.82  | 0.0 | 41.596 | 1.668 |
| 57 | 5194 | 5195 | NS | 1 | 0.0 | 49.072 | 2.54   | 0.0 | 45.828 | 2.421 | 0.0 | 42.366 | 2.091 | 0.0 | 41.763 | 2.307 | 0.0 | 45.505 | 2.243 | 0.0 | 43.547 | 2.211 | 0.0 | 43.888 | 1.909 | 0.0 | 43.56  | 2.06  |
| 58 | 5194 | 5195 | SN | 1 | 0.0 | 51.954 | 9.78   | 0.0 | 54.026 | 9.813 | 0.0 | 48.256 | 6.273 | 0.0 | 46.735 | 6.236 | 0.0 | 50.483 | 9.389 | 0.0 | 56.264 | 9.367 | 0.0 | 46.988 | 5.915 | 0.0 | 45.469 | 5.69  |
| 59 | 5194 | 5195 | SN | 1 | 0.0 | 51.954 | 9.822  | 0.0 | 54.026 | 9.457 | 0.0 | 48.256 | 6.172 | 0.0 | 46.735 | 6.083 | 0.0 | 50.483 | 9.379 | 0.0 | 56.264 | 9.031 | 0.0 | 46.988 | 5.795 | 0.0 | 45.469 | 5.534 |
| 60 | 5194 | 5195 | SN | 1 | 0.0 | 54.926 | 9.903  | 0.0 | 53.829 | 9.328 | 0.0 | 45.873 | 6.172 | 0.0 | 48.84  | 6.033 | 0.0 | 54.104 | 9.45  | 0.0 | 56.043 | 8.851 | 0.0 | 45.631 | 5.717 | 0.0 | 46.728 | 5.498 |
| 61 | 5194 | 5195 | NS | 1 | 0.0 | 50.055 | 7.905  | 0.0 | 45.012 | 6.819 | 0.0 | 47.386 | 6.311 | 0.0 | 43.989 | 6.49  | 0.0 | 51.548 | 7.026 | 0.0 | 45.406 | 6.212 | 0.0 | 49.265 | 5.907 | 0.0 | 43.738 | 6.015 |
| 62 | 5194 | 5195 | NS | 1 | 0.0 | 46.54  | 8.047  | 0.0 | 48.203 | 6.869 | 0.0 | 44.606 | 6.36  | 0.0 | 47.327 | 6.455 | 0.0 | 47.234 | 7.198 | 0.0 | 45.022 | 6.211 | 0.0 | 46.514 | 5.97  | 0.0 | 47.93  | 5.887 |
| 63 | 5194 | 5195 | SN | 1 | 0.0 | 50.902 | 2.933  | 0.0 | 49.722 | 2.782 | 0.0 | 40.881 | 1.751 | 0.0 | 40.957 | 1.728 | 0.0 | 48.302 | 2.682 | 0.0 | 48.847 | 2.599 | 0.0 | 44.285 | 1.617 | 0.0 | 39.798 | 1.598 |
| 64 | 5194 | 5195 | SN | 1 | 0.0 | 48.618 | 2.89   | 0.0 | 51.411 | 2.727 | 0.0 | 46.687 | 1.72  | 0.0 | 41.758 | 1.616 | 0.0 | 48.21  | 2.659 | 0.0 | 50.535 | 2.499 | 0.0 | 43.968 | 1.558 | 0.0 | 41.725 | 1.478 |
| 65 | 5194 | 5195 | SN | 1 | 0.0 | 50.902 | 2.903  | 0.0 | 49.722 | 2.669 | 0.0 | 40.881 | 1.725 | 0.0 | 40.957 | 1.689 | 0.0 | 48.302 | 2.648 | 0.0 | 48.847 | 2.487 | 0.0 | 44.285 | 1.59  | 0.0 | 39.798 | 1.563 |
| 66 | 5194 | 5195 | NS | 1 | 0.0 | 49.838 | 2.545  | 0.0 | 43.256 | 2.437 | 0.0 | 46.421 | 2.056 | 0.0 | 41.375 | 2.226 | 0.0 | 50.451 | 2.209 | 0.0 | 42.243 | 2.218 | 0.0 | 41.555 | 1.868 | 0.0 | 42.958 | 1.914 |
| 67 | 5195 | 5196 | SN | 1 | 0.0 | 52.876 | 1.977  | 0.0 | 54.532 | 1.978 | 0.0 | 37.397 | 1.34  | 0.0 | 49.014 | 1.448 | 0.0 | 53.295 | 1.762 | 0.0 | 51.781 | 1.743 | 0.0 | 34.908 | 1.262 | 0.0 | 47.428 | 1.225 |

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

|     |      |      |    |   |     |        |        |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|------|------|----|---|-----|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 68  | 5195 | 5196 | NS | 1 | 0.0 | 44.69  | 5.813  | 0.0 | 42.496 | 5.837 | 0.0 | 44.778 | 4.985 | 0.0 | 46.398 | 5.284 | 0.0 | 44.631 | 5.024 | 0.0 | 43.367 | 5.341 | 0.0 | 45.132 | 4.545 | 0.0 | 45.919 | 4.788 |
| 69  | 5195 | 5196 | NS | 1 | 0.0 | 45.002 | 5.812  | 0.0 | 46.15  | 6.029 | 0.0 | 46.218 | 4.828 | 0.0 | 53.181 | 5.313 | 0.0 | 43.752 | 4.953 | 0.0 | 47.784 | 5.291 | 0.0 | 42.676 | 4.566 | 0.0 | 48.496 | 4.901 |
| 70  | 5195 | 5196 | SN | 1 | 0.0 | 49.499 | 5.731  | 0.0 | 55.421 | 6.29  | 0.0 | 39.571 | 4.669 | 0.0 | 48.225 | 4.647 | 0.0 | 47.856 | 5.212 | 0.0 | 51.928 | 5.546 | 0.0 | 40.398 | 4.254 | 0.0 | 47.412 | 4.208 |
| 71  | 5195 | 5196 | SN | 1 | 0.0 | 49.499 | 6.277  | 0.0 | 55.421 | 6.462 | 0.0 | 39.571 | 4.8   | 0.0 | 48.225 | 4.735 | 0.0 | 49.037 | 5.663 | 0.0 | 51.928 | 5.773 | 0.0 | 40.398 | 4.402 | 0.0 | 47.412 | 4.258 |
| 72  | 5195 | 5196 | SN | 1 | 0.0 | 49.499 | 6.277  | 0.0 | 55.421 | 6.462 | 0.0 | 39.571 | 4.8   | 0.0 | 48.225 | 4.735 | 0.0 | 49.037 | 5.663 | 0.0 | 51.928 | 5.773 | 0.0 | 40.398 | 4.402 | 0.0 | 47.412 | 4.258 |
| 73  | 5195 | 5196 | NS | 1 | 0.0 | 45.81  | 1.891  | 0.0 | 44.968 | 1.9   | 0.0 | 44.73  | 1.621 | 0.0 | 38.523 | 1.801 | 0.0 | 44.618 | 1.583 | 0.0 | 49.155 | 1.7   | 0.0 | 44.251 | 1.523 | 0.0 | 40.24  | 1.638 |
| 74  | 5195 | 5196 | NS | 1 | 0.0 | 41.327 | 1.914  | 0.0 | 45.992 | 1.896 | 0.0 | 39.558 | 1.661 | 0.0 | 40.753 | 1.773 | 0.0 | 43.445 | 1.585 | 0.0 | 47.784 | 1.708 | 0.0 | 37.18  | 1.543 | 0.0 | 37.023 | 1.665 |
| 75  | 5195 | 5196 | SN | 1 | 0.0 | 52.876 | 1.977  | 0.0 | 54.532 | 1.978 | 0.0 | 37.397 | 1.34  | 0.0 | 49.014 | 1.448 | 0.0 | 53.295 | 1.762 | 0.0 | 51.781 | 1.743 | 0.0 | 34.908 | 1.262 | 0.0 | 47.428 | 1.225 |
| 76  | 5195 | 5196 | SN | 1 | 0.0 | 52.876 | 1.904  | 0.0 | 54.532 | 1.977 | 0.0 | 37.397 | 1.318 | 0.0 | 49.014 | 1.42  | 0.0 | 53.295 | 1.708 | 0.0 | 51.781 | 1.721 | 0.0 | 34.908 | 1.234 | 0.0 | 47.428 | 1.207 |
| 77  | 5196 | 5197 | SN | 1 | 0.0 | 40.726 | 1.672  | 0.0 | 45.377 | 1.458 | 0.0 | 36.817 | 1.258 | 0.0 | 37.297 | 1.366 | 0.0 | 39.479 | 1.532 | 0.0 | 44.1   | 1.297 | 0.0 | 38.084 | 1.15  | 0.0 | 35.381 | 1.181 |
| 78  | 5196 | 5197 | SN | 1 | 0.0 | 40.726 | 1.672  | 0.0 | 45.377 | 1.458 | 0.0 | 36.817 | 1.258 | 0.0 | 37.297 | 1.366 | 0.0 | 39.479 | 1.532 | 0.0 | 44.1   | 1.297 | 0.0 | 38.084 | 1.15  | 0.0 | 35.381 | 1.181 |
| 79  | 5196 | 5197 | NS | 1 | 0.0 | 52.499 | 3.373  | 0.0 | 51.894 | 2.707 | 0.0 | 44.199 | 2.222 | 0.0 | 44.742 | 2.164 | 0.0 | 54.444 | 2.999 | 0.0 | 51.354 | 2.421 | 0.0 | 41.793 | 1.98  | 0.0 | 43.162 | 1.852 |
| 80  | 5196 | 5197 | NS | 1 | 0.0 | 52.958 | 10.554 | 0.0 | 54.058 | 8.69  | 0.0 | 47.18  | 7.388 | 0.0 | 45.681 | 6.994 | 0.0 | 52.566 | 9.695 | 0.0 | 53.915 | 7.962 | 0.0 | 48.157 | 6.864 | 0.0 | 47.094 | 6.249 |
| 81  | 5196 | 5197 | NS | 1 | 0.0 | 52.958 | 10.554 | 0.0 | 54.058 | 8.69  | 0.0 | 47.18  | 7.388 | 0.0 | 45.681 | 6.994 | 0.0 | 52.566 | 9.695 | 0.0 | 53.915 | 7.962 | 0.0 | 48.157 | 6.864 | 0.0 | 47.094 | 6.249 |
| 82  | 5196 | 5197 | NS | 1 | 0.0 | 52.499 | 3.373  | 0.0 | 51.894 | 2.707 | 0.0 | 44.199 | 2.222 | 0.0 | 44.742 | 2.164 | 0.0 | 54.444 | 2.999 | 0.0 | 51.354 | 2.421 | 0.0 | 41.793 | 1.98  | 0.0 | 43.162 | 1.852 |
| 83  | 5196 | 5197 | SN | 1 | 0.0 | 43.452 | 5.492  | 0.0 | 42.952 | 4.932 | 0.0 | 42.818 | 3.982 | 0.0 | 49.117 | 4.008 | 0.0 | 43.553 | 5.211 | 0.0 | 40.623 | 4.659 | 0.0 | 42.537 | 3.541 | 0.0 | 47.071 | 3.558 |
| 84  | 5196 | 5197 | SN | 1 | 0.0 | 43.452 | 5.492  | 0.0 | 42.952 | 4.932 | 0.0 | 42.818 | 3.982 | 0.0 | 49.117 | 4.008 | 0.0 | 43.553 | 5.211 | 0.0 | 40.623 | 4.659 | 0.0 | 42.537 | 3.541 | 0.0 | 47.071 | 3.558 |
| 85  | 5197 | 5198 | NS | 1 | 0.0 | 56.413 | 7.316  | 0.0 | 54.212 | 6.406 | 0.0 | 44.39  | 5.111 | 0.0 | 44.639 | 5.023 | 0.0 | 57.127 | 6.397 | 0.0 | 52.32  | 5.718 | 0.0 | 42.88  | 4.841 | 0.0 | 43.573 | 4.668 |
| 86  | 5197 | 5198 | NS | 1 | 0.0 | 56.413 | 7.316  | 0.0 | 54.212 | 6.406 | 0.0 | 44.39  | 5.111 | 0.0 | 44.639 | 5.023 | 0.0 | 57.127 | 6.397 | 0.0 | 52.32  | 5.718 | 0.0 | 42.88  | 4.841 | 0.0 | 43.573 | 4.668 |
| 87  | 5197 | 5198 | NS | 1 | 0.0 | 47.244 | 2.361  | 0.0 | 49.495 | 2.084 | 0.0 | 41.19  | 1.526 | 0.0 | 42.49  | 1.472 | 0.0 | 45.377 | 1.979 | 0.0 | 50.274 | 1.858 | 0.0 | 39.473 | 1.351 | 0.0 | 41.063 | 1.3   |
| 88  | 5197 | 5198 | NS | 1 | 0.0 | 47.244 | 2.361  | 0.0 | 49.495 | 2.084 | 0.0 | 41.19  | 1.526 | 0.0 | 42.49  | 1.472 | 0.0 | 45.377 | 1.979 | 0.0 | 50.274 | 1.858 | 0.0 | 39.473 | 1.351 | 0.0 | 41.063 | 1.3   |
| 89  | 5202 | 5203 | SN | 1 | 0.0 | 48.7   | 2.243  | 0.0 | 44.021 | 1.987 | 0.0 | 40.765 | 1.503 | 0.0 | 41.272 | 1.59  | 0.0 | 51.661 | 1.981 | 0.0 | 43.814 | 1.84  | 0.0 | 39.445 | 1.392 | 0.0 | 42.087 | 1.476 |
| 90  | 5202 | 5203 | SN | 1 | 0.0 | 56.051 | 7.147  | 0.0 | 49.841 | 6.333 | 0.0 | 46.846 | 4.728 | 0.0 | 44.122 | 5.128 | 0.0 | 58.07  | 6.725 | 0.0 | 50.566 | 5.888 | 0.0 | 47.116 | 4.465 | 0.0 | 43.367 | 4.864 |
| 91  | 5202 | 5203 | SN | 1 | 0.0 | 56.051 | 7.156  | 0.0 | 49.841 | 6.441 | 0.0 | 46.846 | 4.707 | 0.0 | 44.122 | 5.196 | 0.0 | 58.07  | 6.754 | 0.0 | 50.566 | 6.005 | 0.0 | 44.7   | 4.513 | 0.0 | 43.367 | 4.933 |
| 92  | 5202 | 5203 | SN | 1 | 0.0 | 56.051 | 7.147  | 0.0 | 49.841 | 6.333 | 0.0 | 46.846 | 4.728 | 0.0 | 44.122 | 5.128 | 0.0 | 58.07  | 6.725 | 0.0 | 50.566 | 5.888 | 0.0 | 47.116 | 4.465 | 0.0 | 43.367 | 4.864 |
| 93  | 5202 | 5203 | SN | 1 | 0.0 | 48.7   | 2.306  | 0.0 | 44.021 | 2.057 | 0.0 | 40.765 | 1.508 | 0.0 | 41.272 | 1.611 | 0.0 | 51.661 | 2.042 | 0.0 | 43.814 | 1.907 | 0.0 | 39.445 | 1.403 | 0.0 | 42.087 | 1.492 |
| 94  | 5202 | 5203 | SN | 1 | 0.0 | 48.7   | 2.243  | 0.0 | 44.021 | 1.987 | 0.0 | 40.765 | 1.503 | 0.0 | 41.272 | 1.59  | 0.0 | 51.661 | 1.981 | 0.0 | 43.814 | 1.84  | 0.0 | 39.445 | 1.392 | 0.0 | 42.087 | 1.476 |
| 95  | 5203 | 5204 | NS | 1 | 0.0 | 43.681 | 8.37   | 0.0 | 57.108 | 7.181 | 0.0 | 47.477 | 5.686 | 0.0 | 45.494 | 5.256 | 0.0 | 43.736 | 7.531 | 0.0 | 55.904 | 6.473 | 0.0 | 46.471 | 5.232 | 0.0 | 44.086 | 4.611 |
| 96  | 5203 | 5204 | SN | 1 | 0.0 | 42.993 | 1.454  | 0.0 | 49.502 | 1.369 | 0.0 | 39.189 | 1.018 | 0.0 | 42.176 | 1.079 | 0.0 | 46.594 | 1.169 | 0.0 | 48.31  | 1.156 | 0.0 | 38.997 | 0.869 | 0.0 | 42.314 | 0.876 |
| 97  | 5203 | 5204 | NS | 1 | 0.0 | 47.926 | 2.689  | 0.0 | 51.449 | 2.153 | 0.0 | 49.365 | 1.831 | 0.0 | 41.087 | 1.682 | 0.0 | 45.484 | 2.328 | 0.0 | 52.331 | 1.932 | 0.0 | 44.683 | 1.681 | 0.0 | 37.945 | 1.408 |
| 98  | 5203 | 5204 | NS | 1 | 0.0 | 47.926 | 2.689  | 0.0 | 51.449 | 2.153 | 0.0 | 49.365 | 1.831 | 0.0 | 41.087 | 1.682 | 0.0 | 45.484 | 2.328 | 0.0 | 52.331 | 1.932 | 0.0 | 44.683 | 1.681 | 0.0 | 37.945 | 1.408 |
| 99  | 5203 | 5204 | SN | 1 | 0.0 | 42.993 | 1.454  | 0.0 | 49.502 | 1.369 | 0.0 | 39.189 | 1.018 | 0.0 | 42.176 | 1.079 | 0.0 | 46.594 | 1.165 | 0.0 | 48.31  | 1.156 | 0.0 | 38.997 | 0.867 | 0.0 | 42.314 | 0.876 |
| 100 | 5203 | 5204 | SN | 1 | 0.0 | 52.132 | 4.287  | 0.0 | 49.779 | 4.209 | 0.0 | 46.509 | 3.601 | 0.0 | 45.644 | 3.987 | 0.0 | 51.85  | 3.693 | 0.0 | 47.615 | 3.49  | 0.0 | 43.188 | 3.231 | 0.0 | 47.229 | 3.238 |
| 101 | 5203 | 5204 | SN | 1 | 0.0 | 52.132 | 4.287  | 0.0 | 49.779 | 4.209 | 0.0 | 46.509 | 3.608 | 0.0 | 45.644 | 3.987 | 0.0 | 51.85  | 3.683 | 0.0 | 47.615 | 3.49  | 0.0 | 43.188 | 3.231 | 0.0 | 47.229 | 3.238 |
| 102 | 5203 | 5204 | SN | 1 | 0.0 | 52.132 | 4.287  | 0.0 | 49.779 | 4.263 | 0.0 | 46.509 | 3.596 | 0.0 | 45.644 | 4.049 | 0.0 | 51.85  | 3.705 | 0.0 | 47.615 | 3.544 | 0.0 | 43.188 | 3.22  | 0.0 | 47.229 | 3.288 |
| 103 | 5203 | 5204 | SN | 1 | 0.0 | 42.993 | 1.464  | 0.0 | 49.502 | 1.388 | 0.0 | 39.189 | 1.024 | 0.0 | 42.176 | 1.095 | 0.0 | 46.594 | 1.179 | 0.0 | 48.31  | 1.172 | 0.0 | 38.997 | 0.863 | 0.0 | 42.314 | 0.889 |

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

|     |      |      |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 104 | 5203 | 5204 | NS | 1 | 0.0 | 43.681 | 8.37  | 0.0 | 57.108 | 7.181 | 0.0 | 47.477 | 5.686 | 0.0 | 45.494 | 5.256 | 0.0 | 43.736 | 7.531 | 0.0 | 55.904 | 6.473 | 0.0 | 46.471 | 5.232 | 0.0 | 44.086 | 4.611 |
| 105 | 5204 | 5205 | SN | 1 | 0.0 | 42.956 | 1.758 | 0.0 | 46.413 | 1.425 | 0.0 | 39.099 | 1.322 | 0.0 | 41.241 | 1.107 | 0.0 | 42.827 | 1.536 | 0.0 | 43.752 | 1.347 | 0.0 | 37.473 | 1.259 | 0.0 | 41.44  | 1.056 |
| 106 | 5204 | 5205 | SN | 1 | 0.0 | 42.956 | 1.743 | 0.0 | 46.413 | 1.409 | 0.0 | 39.099 | 1.316 | 0.0 | 41.241 | 1.094 | 0.0 | 42.827 | 1.521 | 0.0 | 43.752 | 1.332 | 0.0 | 37.473 | 1.248 | 0.0 | 41.44  | 1.044 |
| 107 | 5204 | 5205 | SN | 1 | 0.0 | 49.049 | 4.959 | 0.0 | 47.474 | 4.262 | 0.0 | 42.267 | 4.012 | 0.0 | 43.208 | 3.686 | 0.0 | 51.105 | 4.511 | 0.0 | 47.338 | 3.924 | 0.0 | 39.618 | 4.041 | 0.0 | 41.311 | 3.707 |
| 108 | 5204 | 5205 | SN | 1 | 0.0 | 49.049 | 4.958 | 0.0 | 47.474 | 4.251 | 0.0 | 42.267 | 4.012 | 0.0 | 43.208 | 3.676 | 0.0 | 51.105 | 4.51  | 0.0 | 47.338 | 3.914 | 0.0 | 39.618 | 4.041 | 0.0 | 41.311 | 3.698 |
| 109 | 5204 | 5205 | SN | 1 | 0.0 | 49.049 | 4.929 | 0.0 | 47.474 | 4.208 | 0.0 | 42.267 | 3.983 | 0.0 | 43.208 | 3.638 | 0.0 | 51.105 | 4.476 | 0.0 | 47.338 | 3.875 | 0.0 | 39.618 | 4.005 | 0.0 | 41.311 | 3.66  |
| 110 | 5204 | 5205 | NS | 1 | 0.0 | 46.972 | 3.819 | 0.0 | 44.67  | 2.892 | 0.0 | 43.452 | 2.496 | 0.0 | 46.19  | 2.851 | 0.0 | 43.959 | 3.102 | 0.0 | 44.832 | 2.316 | 0.0 | 42.704 | 2.162 | 0.0 | 47.458 | 2.206 |
| 111 | 5204 | 5205 | NS | 1 | 0.0 | 47.539 | 3.819 | 0.0 | 43.893 | 2.842 | 0.0 | 43.352 | 2.488 | 0.0 | 45.245 | 2.844 | 0.0 | 44.527 | 3.092 | 0.0 | 44.118 | 2.336 | 0.0 | 42.608 | 2.212 | 0.0 | 46.513 | 2.206 |
| 112 | 5204 | 5205 | NS | 1 | 0.0 | 45.907 | 1.376 | 0.0 | 38.409 | 0.901 | 0.0 | 41.198 | 0.828 | 0.0 | 39.563 | 0.956 | 0.0 | 41.13  | 1.078 | 0.0 | 36.769 | 0.741 | 0.0 | 39.453 | 0.693 | 0.0 | 37.326 | 0.744 |
| 113 | 5204 | 5205 | NS | 1 | 0.0 | 51.025 | 1.346 | 0.0 | 43.966 | 0.931 | 0.0 | 39.015 | 0.845 | 0.0 | 39.896 | 0.965 | 0.0 | 45.998 | 1.063 | 0.0 | 45.54  | 0.746 | 0.0 | 35.711 | 0.704 | 0.0 | 36.895 | 0.751 |
| 114 | 5204 | 5205 | SN | 1 | 0.0 | 42.956 | 1.758 | 0.0 | 46.413 | 1.425 | 0.0 | 39.099 | 1.322 | 0.0 | 41.241 | 1.107 | 0.0 | 42.827 | 1.536 | 0.0 | 43.752 | 1.347 | 0.0 | 37.473 | 1.259 | 0.0 | 41.44  | 1.056 |
| 115 | 5205 | 5206 | NS | 1 | 0.0 | 51.353 | 1.309 | 0.0 | 44.96  | 0.996 | 0.0 | 46.591 | 1.037 | 0.0 | 41.2   | 1.11  | 0.0 | 49.446 | 1.01  | 0.0 | 43.383 | 0.832 | 0.0 | 46.692 | 0.883 | 0.0 | 40.41  | 0.949 |
| 116 | 5205 | 5206 | SN | 1 | 0.0 | 40.152 | 2.323 | 0.0 | 43.345 | 2.156 | 0.0 | 41.484 | 1.711 | 0.0 | 38.7   | 1.801 | 0.0 | 39.067 | 2.022 | 0.0 | 42.563 | 1.824 | 0.0 | 38.238 | 1.52  | 0.0 | 37.525 | 1.505 |
| 117 | 5205 | 5206 | SN | 1 | 0.0 | 48.698 | 7.203 | 0.0 | 45.282 | 6.263 | 0.0 | 39.701 | 5.015 | 0.0 | 38.011 | 5.101 | 0.0 | 50.545 | 6.489 | 0.0 | 43.652 | 5.676 | 0.0 | 40.335 | 4.503 | 0.0 | 38.588 | 4.623 |
| 118 | 5205 | 5206 | SN | 1 | 0.0 | 52.259 | 2.283 | 0.0 | 43.345 | 2.117 | 0.0 | 41.484 | 1.687 | 0.0 | 38.7   | 1.77  | 0.0 | 48.553 | 1.987 | 0.0 | 42.563 | 1.791 | 0.0 | 38.238 | 1.499 | 0.0 | 37.525 | 1.478 |
| 119 | 5205 | 5206 | NS | 1 | 0.0 | 53.252 | 3.157 | 0.0 | 50.072 | 2.528 | 0.0 | 53.84  | 2.774 | 0.0 | 47.909 | 2.979 | 0.0 | 51.071 | 2.438 | 0.0 | 49.964 | 2.083 | 0.0 | 51.294 | 2.44  | 0.0 | 46.196 | 2.681 |
| 120 | 5205 | 5206 | SN | 1 | 0.0 | 48.698 | 7.324 | 0.0 | 45.282 | 6.376 | 0.0 | 39.701 | 5.103 | 0.0 | 38.011 | 5.194 | 0.0 | 50.545 | 6.607 | 0.0 | 43.652 | 5.779 | 0.0 | 40.335 | 4.588 | 0.0 | 38.588 | 4.707 |
| 121 | 5206 | 5207 | NS | 1 | 0.0 | 44.27  | 4.163 | 0.0 | 52.847 | 4.156 | 0.0 | 40.265 | 3.261 | 0.0 | 51.483 | 3.27  | 0.0 | 48.343 | 3.668 | 0.0 | 51.441 | 3.701 | 0.0 | 42.769 | 3.148 | 0.0 | 50.91  | 2.901 |
| 122 | 5206 | 5207 | NS | 1 | 0.0 | 43.893 | 1.294 | 0.0 | 52.55  | 1.152 | 0.0 | 39.783 | 0.914 | 0.0 | 38.242 | 0.921 | 0.0 | 48.391 | 1.117 | 0.0 | 49.207 | 1.025 | 0.0 | 41.154 | 0.867 | 0.0 | 37.667 | 0.844 |
| 123 | 5206 | 5207 | NS | 1 | 0.0 | 50.593 | 4.294 | 0.0 | 49.625 | 3.953 | 0.0 | 46.993 | 3.188 | 0.0 | 50.022 | 3.177 | 0.0 | 50.651 | 3.698 | 0.0 | 51.441 | 3.691 | 0.0 | 45.0   | 2.898 | 0.0 | 49.228 | 2.843 |
| 124 | 5206 | 5207 | SN | 1 | 0.0 | 43.967 | 2.265 | 0.0 | 47.222 | 1.893 | 0.0 | 38.455 | 1.765 | 0.0 | 40.948 | 1.787 | 0.0 | 46.262 | 1.856 | 0.0 | 45.653 | 1.678 | 0.0 | 37.889 | 1.591 | 0.0 | 41.911 | 1.505 |
| 125 | 5206 | 5207 | SN | 1 | 0.0 | 45.196 | 6.71  | 0.0 | 44.979 | 5.939 | 0.0 | 40.443 | 4.951 | 0.0 | 41.274 | 4.837 | 0.0 | 46.59  | 6.197 | 0.0 | 47.521 | 5.464 | 0.0 | 40.076 | 4.709 | 0.0 | 38.591 | 4.38  |
| 126 | 5206 | 5207 | SN | 1 | 0.0 | 39.391 | 2.249 | 0.0 | 42.996 | 1.893 | 0.0 | 36.491 | 1.717 | 0.0 | 35.036 | 1.79  | 0.0 | 42.887 | 1.863 | 0.0 | 45.212 | 1.685 | 0.0 | 36.818 | 1.561 | 0.0 | 35.274 | 1.518 |
| 127 | 5206 | 5207 | NS | 1 | 0.0 | 49.15  | 1.316 | 0.0 | 52.267 | 1.235 | 0.0 | 44.574 | 0.941 | 0.0 | 46.229 | 0.89  | 0.0 | 46.733 | 1.152 | 0.0 | 50.876 | 1.073 | 0.0 | 44.66  | 0.873 | 0.0 | 42.906 | 0.837 |
| 128 | 5206 | 5207 | SN | 1 | 0.0 | 42.292 | 6.805 | 0.0 | 44.77  | 6.266 | 0.0 | 42.157 | 5.045 | 0.0 | 38.519 | 4.97  | 0.0 | 44.192 | 6.308 | 0.0 | 47.456 | 5.787 | 0.0 | 41.79  | 4.825 | 0.0 | 35.863 | 4.471 |
| 129 | 5206 | 5207 | SN | 1 | 0.0 | 42.292 | 6.64  | 0.0 | 44.77  | 6.101 | 0.0 | 42.157 | 4.901 | 0.0 | 38.519 | 4.837 | 0.0 | 44.192 | 6.147 | 0.0 | 47.456 | 5.626 | 0.0 | 41.79  | 4.673 | 0.0 | 35.863 | 4.359 |
| 130 | 5206 | 5207 | SN | 1 | 0.0 | 39.391 | 2.313 | 0.0 | 42.996 | 1.948 | 0.0 | 36.491 | 1.768 | 0.0 | 35.036 | 1.842 | 0.0 | 42.887 | 1.914 | 0.0 | 45.212 | 1.733 | 0.0 | 36.818 | 1.612 | 0.0 | 35.274 | 1.562 |
| 131 | 5207 | 5208 | NS | 1 | 0.0 | 49.716 | 2.234 | 0.0 | 45.332 | 1.74  | 0.0 | 39.509 | 1.47  | 0.0 | 45.947 | 1.381 | 0.0 | 48.394 | 1.858 | 0.0 | 43.116 | 1.377 | 0.0 | 37.907 | 1.201 | 0.0 | 47.482 | 1.11  |
| 132 | 5207 | 5208 | NS | 1 | 0.0 | 50.29  | 6.35  | 0.0 | 52.61  | 5.025 | 0.0 | 43.916 | 4.865 | 0.0 | 49.323 | 4.644 | 0.0 | 52.645 | 5.369 | 0.0 | 50.951 | 4.176 | 0.0 | 43.476 | 4.177 | 0.0 | 51.719 | 3.935 |
| 133 | 5207 | 5208 | NS | 1 | 0.0 | 49.843 | 6.4   | 0.0 | 49.855 | 5.066 | 0.0 | 49.239 | 4.837 | 0.0 | 50.913 | 4.751 | 0.0 | 51.569 | 5.369 | 0.0 | 48.843 | 4.257 | 0.0 | 48.297 | 4.121 | 0.0 | 53.311 | 3.992 |
| 134 | 5207 | 5208 | SN | 1 | 0.0 | 41.147 | 8.576 | 0.0 | 54.311 | 8.531 | 0.0 | 40.179 | 6.144 | 0.0 | 40.022 | 6.526 | 0.0 | 41.549 | 7.83  | 0.0 | 50.368 | 7.939 | 0.0 | 42.846 | 5.682 | 0.0 | 39.261 | 6.101 |
| 135 | 5207 | 5208 | SN | 1 | 0.0 | 48.95  | 2.847 | 0.0 | 40.115 | 2.764 | 0.0 | 39.718 | 2.132 | 0.0 | 40.926 | 2.204 | 0.0 | 44.181 | 2.533 | 0.0 | 39.971 | 2.425 | 0.0 | 37.555 | 1.919 | 0.0 | 38.612 | 1.962 |
| 136 | 5207 | 5208 | SN | 1 | 0.0 | 48.95  | 2.847 | 0.0 | 40.115 | 2.764 | 0.0 | 39.718 | 2.132 | 0.0 | 40.926 | 2.204 | 0.0 | 44.181 | 2.533 | 0.0 | 39.971 | 2.425 | 0.0 | 37.555 | 1.919 | 0.0 | 38.612 | 1.962 |
| 137 | 5207 | 5208 | NS | 1 | 0.0 | 49.15  | 2.277 | 0.0 | 45.859 | 1.722 | 0.0 | 38.989 | 1.435 | 0.0 | 44.311 | 1.365 | 0.0 | 45.76  | 1.905 | 0.0 | 43.524 | 1.368 | 0.0 | 39.104 | 1.2   | 0.0 | 42.909 | 1.121 |
| 138 | 5207 | 5208 | SN | 1 | 0.0 | 41.147 | 8.207 | 0.0 | 54.311 | 8.164 | 0.0 | 40.179 | 5.902 | 0.0 | 40.022 | 6.242 | 0.0 | 41.549 | 7.493 | 0.0 | 50.368 | 7.597 | 0.0 | 42.846 | 5.447 | 0.0 | 39.261 | 5.835 |
| 139 | 5207 | 5208 | SN | 1 | 0.0 | 41.147 | 8.207 | 0.0 | 54.311 | 8.164 | 0.0 | 40.179 | 5.902 | 0.0 | 40.022 | 6.242 | 0.0 | 41.549 | 7.493 | 0.0 | 50.368 | 7.597 | 0.0 | 42.846 | 5.447 | 0.0 | 39.261 | 5.835 |

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

|     |      |      |    |   |     |        |        |     |        |        |     |        |       |     |        |       |     |        |        |     |        |        |     |        |       |     |        |       |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 140 | 5207 | 5208 | SN | 1 | 0.0 | 48.95  | 2.977  | 0.0 | 40.115 | 2.886  | 0.0 | 39.718 | 2.226 | 0.0 | 40.926 | 2.302 | 0.0 | 44.181 | 2.648  | 0.0 | 39.971 | 2.534  | 0.0 | 37.555 | 2.007 | 0.0 | 38.612 | 2.049 |
| 141 | 5208 | 5209 | NS | 1 | 0.0 | 49.492 | 2.962  | 0.0 | 47.261 | 2.47   | 0.0 | 46.347 | 2.215 | 0.0 | 45.753 | 2.128 | 0.0 | 48.977 | 2.601  | 0.0 | 46.92  | 2.307  | 0.0 | 43.456 | 1.961 | 0.0 | 42.29  | 1.882 |
| 142 | 5208 | 5209 | SN | 1 | 0.0 | 43.154 | 10.334 | 0.0 | 47.914 | 9.928  | 0.0 | 48.927 | 7.745 | 0.0 | 48.036 | 7.369 | 0.0 | 45.188 | 10.088 | 0.0 | 48.419 | 9.355  | 0.0 | 47.471 | 7.237 | 0.0 | 44.157 | 6.827 |
| 143 | 5208 | 5209 | SN | 1 | 0.0 | 43.154 | 9.725  | 0.0 | 47.914 | 9.482  | 0.0 | 48.927 | 7.275 | 0.0 | 48.036 | 6.974 | 0.0 | 45.188 | 9.474  | 0.0 | 48.419 | 8.915  | 0.0 | 47.471 | 6.791 | 0.0 | 44.157 | 6.424 |
| 144 | 5208 | 5209 | SN | 1 | 0.0 | 43.154 | 9.725  | 0.0 | 47.914 | 9.482  | 0.0 | 48.927 | 7.275 | 0.0 | 48.036 | 6.974 | 0.0 | 45.188 | 9.474  | 0.0 | 48.419 | 8.915  | 0.0 | 47.471 | 6.791 | 0.0 | 44.157 | 6.424 |
| 145 | 5208 | 5209 | NS | 1 | 0.0 | 46.073 | 8.359  | 0.0 | 51.515 | 7.01   | 0.0 | 42.071 | 6.153 | 0.0 | 48.924 | 6.305 | 0.0 | 46.791 | 7.479  | 0.0 | 52.939 | 6.585  | 0.0 | 42.922 | 5.749 | 0.0 | 45.113 | 5.603 |
| 146 | 5208 | 5209 | NS | 1 | 0.0 | 52.327 | 8.14   | 0.0 | 51.755 | 7.048  | 0.0 | 48.652 | 6.191 | 0.0 | 52.112 | 6.46  | 0.0 | 50.77  | 7.371  | 0.0 | 52.771 | 6.39   | 0.0 | 48.545 | 6.043 | 0.0 | 49.291 | 5.715 |
| 147 | 5208 | 5209 | SN | 1 | 0.0 | 42.694 | 3.501  | 0.0 | 48.879 | 3.364  | 0.0 | 44.668 | 2.394 | 0.0 | 44.1   | 2.225 | 0.0 | 43.51  | 3.166  | 0.0 | 51.579 | 3.021  | 0.0 | 40.994 | 2.206 | 0.0 | 44.487 | 1.953 |
| 148 | 5208 | 5209 | SN | 1 | 0.0 | 42.694 | 3.293  | 0.0 | 48.879 | 3.189  | 0.0 | 44.668 | 2.242 | 0.0 | 44.1   | 2.096 | 0.0 | 43.51  | 2.974  | 0.0 | 51.579 | 2.847  | 0.0 | 40.994 | 2.067 | 0.0 | 44.487 | 1.837 |
| 149 | 5208 | 5209 | SN | 1 | 0.0 | 42.694 | 3.291  | 0.0 | 48.879 | 3.189  | 0.0 | 44.668 | 2.242 | 0.0 | 44.1   | 2.096 | 0.0 | 43.51  | 2.972  | 0.0 | 51.579 | 2.847  | 0.0 | 40.994 | 2.067 | 0.0 | 44.487 | 1.837 |
| 150 | 5208 | 5209 | NS | 1 | 0.0 | 43.137 | 2.967  | 0.0 | 46.88  | 2.606  | 0.0 | 41.658 | 2.147 | 0.0 | 45.632 | 2.106 | 0.0 | 43.678 | 2.56   | 0.0 | 46.92  | 2.333  | 0.0 | 41.155 | 1.917 | 0.0 | 44.754 | 1.866 |
| 151 | 5209 | 5210 | SN | 1 | 0.0 | 53.279 | 11.71  | 0.0 | 56.869 | 12.091 | 0.0 | 49.71  | 7.919 | 0.0 | 50.834 | 7.939 | 0.0 | 53.342 | 11.666 | 0.0 | 56.02  | 11.969 | 0.0 | 49.504 | 7.857 | 0.0 | 52.82  | 7.689 |
| 152 | 5209 | 5210 | SN | 1 | 0.0 | 52.785 | 3.71   | 0.0 | 50.674 | 3.778  | 0.0 | 45.49  | 2.23  | 0.0 | 42.863 | 2.185 | 0.0 | 49.687 | 3.447  | 0.0 | 53.195 | 3.617  | 0.0 | 45.113 | 2.041 | 0.0 | 42.586 | 2.095 |
| 153 | 5209 | 5210 | SN | 1 | 0.0 | 53.279 | 11.116 | 0.0 | 56.869 | 11.547 | 0.0 | 49.71  | 7.296 | 0.0 | 50.834 | 7.552 | 0.0 | 53.342 | 11.015 | 0.0 | 56.02  | 11.395 | 0.0 | 49.504 | 7.218 | 0.0 | 52.82  | 7.303 |
| 154 | 5209 | 5210 | NS | 1 | 0.0 | 46.928 | 2.553  | 0.0 | 45.607 | 2.207  | 0.0 | 50.777 | 1.702 | 0.0 | 39.552 | 1.789 | 0.0 | 45.215 | 2.231  | 0.0 | 44.756 | 1.932  | 0.0 | 51.507 | 1.661 | 0.0 | 36.937 | 1.61  |
| 155 | 5209 | 5210 | SN | 1 | 0.0 | 53.279 | 11.116 | 0.0 | 56.869 | 11.547 | 0.0 | 49.71  | 7.296 | 0.0 | 50.834 | 7.552 | 0.0 | 53.342 | 11.015 | 0.0 | 56.02  | 11.395 | 0.0 | 49.504 | 7.218 | 0.0 | 52.82  | 7.303 |
| 156 | 5209 | 5210 | SN | 1 | 0.0 | 52.785 | 3.441  | 0.0 | 50.674 | 3.556  | 0.0 | 45.49  | 2.062 | 0.0 | 42.863 | 2.076 | 0.0 | 49.687 | 3.195  | 0.0 | 53.195 | 3.377  | 0.0 | 45.113 | 1.883 | 0.0 | 42.586 | 1.992 |
| 157 | 5209 | 5210 | SN | 1 | 0.0 | 52.785 | 3.441  | 0.0 | 50.674 | 3.556  | 0.0 | 45.49  | 2.062 | 0.0 | 42.863 | 2.076 | 0.0 | 49.687 | 3.195  | 0.0 | 53.195 | 3.377  | 0.0 | 45.113 | 1.883 | 0.0 | 42.586 | 1.992 |
| 158 | 5209 | 5210 | NS | 1 | 0.0 | 48.317 | 7.883  | 0.0 | 48.789 | 7.039  | 0.0 | 41.939 | 5.594 | 0.0 | 49.317 | 5.277 | 0.0 | 47.545 | 6.902  | 0.0 | 46.742 | 6.129  | 0.0 | 42.204 | 5.417 | 0.0 | 46.916 | 4.979 |
| 159 | 5209 | 5210 | NS | 1 | 0.0 | 48.317 | 7.883  | 0.0 | 48.789 | 7.039  | 0.0 | 41.939 | 5.594 | 0.0 | 49.317 | 5.277 | 0.0 | 47.545 | 6.902  | 0.0 | 46.742 | 6.129  | 0.0 | 42.204 | 5.417 | 0.0 | 46.916 | 4.979 |
| 160 | 5209 | 5210 | NS | 1 | 0.0 | 46.928 | 2.553  | 0.0 | 45.607 | 2.207  | 0.0 | 50.777 | 1.702 | 0.0 | 39.552 | 1.789 | 0.0 | 45.215 | 2.231  | 0.0 | 44.756 | 1.932  | 0.0 | 51.507 | 1.661 | 0.0 | 36.937 | 1.61  |
| 161 | 5210 | 5211 | NS | 1 | 0.0 | 51.82  | 6.112  | 0.0 | 52.781 | 4.199  | 0.0 | 47.163 | 4.664 | 0.0 | 46.282 | 4.2   | 0.0 | 51.587 | 5.152  | 0.0 | 49.436 | 3.612  | 0.0 | 42.929 | 4.239 | 0.0 | 46.013 | 3.583 |
| 162 | 5210 | 5211 | NS | 1 | 0.0 | 46.427 | 2.225  | 0.0 | 45.154 | 1.544  | 0.0 | 41.767 | 1.318 | 0.0 | 42.054 | 1.362 | 0.0 | 44.566 | 1.858  | 0.0 | 42.934 | 1.285  | 0.0 | 37.719 | 1.162 | 0.0 | 40.041 | 1.158 |
| 163 | 5210 | 5211 | SN | 1 | 0.0 | 43.69  | 1.758  | 0.0 | 48.608 | 1.795  | 0.0 | 36.488 | 1.234 | 0.0 | 43.788 | 1.403 | 0.0 | 46.288 | 1.52   | 0.0 | 50.438 | 1.503  | 0.0 | 35.219 | 1.09  | 0.0 | 40.749 | 1.181 |
| 164 | 5210 | 5211 | NS | 1 | 0.0 | 49.889 | 2.289  | 0.0 | 44.877 | 1.526  | 0.0 | 41.263 | 1.381 | 0.0 | 45.355 | 1.266 | 0.0 | 48.229 | 1.931  | 0.0 | 43.084 | 1.31   | 0.0 | 40.871 | 1.222 | 0.0 | 42.861 | 1.064 |
| 165 | 5210 | 5211 | NS | 1 | 0.0 | 51.82  | 6.084  | 0.0 | 50.723 | 4.096  | 0.0 | 44.761 | 4.672 | 0.0 | 49.738 | 4.248 | 0.0 | 51.87  | 5.073  | 0.0 | 50.231 | 3.701  | 0.0 | 44.527 | 4.268 | 0.0 | 48.925 | 3.617 |
| 166 | 5210 | 5211 | SN | 1 | 0.0 | 43.69  | 1.758  | 0.0 | 48.608 | 1.795  | 0.0 | 36.488 | 1.234 | 0.0 | 43.788 | 1.403 | 0.0 | 46.288 | 1.52   | 0.0 | 50.438 | 1.503  | 0.0 | 35.219 | 1.09  | 0.0 | 40.749 | 1.181 |
| 167 | 5210 | 5211 | SN | 1 | 0.0 | 44.209 | 5.396  | 0.0 | 48.034 | 5.926  | 0.0 | 48.15  | 3.982 | 0.0 | 42.536 | 4.515 | 0.0 | 42.188 | 4.884  | 0.0 | 46.624 | 5.319  | 0.0 | 45.739 | 3.563 | 0.0 | 40.131 | 4.058 |
| 168 | 5210 | 5211 | SN | 1 | 0.0 | 44.209 | 5.396  | 0.0 | 48.034 | 5.926  | 0.0 | 48.15  | 3.982 | 0.0 | 42.536 | 4.515 | 0.0 | 42.188 | 4.884  | 0.0 | 46.624 | 5.319  | 0.0 | 45.739 | 3.563 | 0.0 | 40.131 | 4.058 |
| 169 | 5211 | 5212 | SN | 1 | 0.0 | 45.179 | 1.304  | 0.0 | 39.314 | 1.319  | 0.0 | 38.084 | 0.989 | 0.0 | 44.973 | 1.065 | 0.0 | 42.272 | 0.987  | 0.0 | 37.544 | 1.072  | 0.0 | 36.303 | 0.786 | 0.0 | 42.82  | 0.906 |
| 170 | 5211 | 5212 | NS | 1 | 0.0 | 54.993 | 8.789  | 0.0 | 52.519 | 8.448  | 0.0 | 48.324 | 5.642 | 0.0 | 48.619 | 6.016 | 0.0 | 55.672 | 7.93   | 0.0 | 52.956 | 7.608  | 0.0 | 48.605 | 5.089 | 0.0 | 50.118 | 5.392 |
| 171 | 5211 | 5212 | NS | 1 | 0.0 | 54.993 | 8.789  | 0.0 | 52.519 | 8.448  | 0.0 | 48.324 | 5.642 | 0.0 | 48.619 | 6.016 | 0.0 | 55.672 | 7.93   | 0.0 | 52.956 | 7.608  | 0.0 | 48.605 | 5.089 | 0.0 | 50.118 | 5.392 |
| 172 | 5211 | 5212 | SN | 1 | 0.0 | 54.021 | 4.542  | 0.0 | 48.843 | 4.59   | 0.0 | 40.332 | 2.674 | 0.0 | 42.88  | 3.559 | 0.0 | 54.29  | 3.728  | 0.0 | 49.501 | 4.257  | 0.0 | 38.874 | 2.375 | 0.0 | 38.801 | 3.224 |
| 173 | 5211 | 5212 | NS | 1 | 0.0 | 46.634 | 2.645  | 0.0 | 49.826 | 2.451  | 0.0 | 47.417 | 1.675 | 0.0 | 39.04  | 1.755 | 0.0 | 45.233 | 2.188  | 0.0 | 47.564 | 2.074  | 0.0 | 43.662 | 1.496 | 0.0 | 39.143 | 1.477 |
| 174 | 5211 | 5212 | NS | 1 | 0.0 | 46.634 | 2.645  | 0.0 | 49.826 | 2.451  | 0.0 | 47.417 | 1.675 | 0.0 | 39.04  | 1.755 | 0.0 | 45.233 | 2.188  | 0.0 | 47.564 | 2.074  | 0.0 | 43.662 | 1.496 | 0.0 | 39.143 | 1.477 |
| 175 | 5212 | 5213 | NS | 1 | 0.0 | 44.139 | 2.125  | 0.0 | 46.374 | 1.993  | 0.0 | 39.965 | 1.597 | 0.0 | 44.998 | 1.58  | 0.0 | 43.867 | 1.994  | 0.0 | 44.49  | 1.867  | 0.0 | 40.254 | 1.478 | 0.0 | 42.744 | 1.456 |

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

|     |      |      |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |     |     |       |       |
|-----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-----|-----|-------|-------|
| 176 | 5212 | 5213 | NS | 1 | 0.0 | 52.863 | 6.729 | 0.0 | 50.885 | 6.647 | 0.0 | 41.597 | 4.756 | 0.0 | 43.831 | 4.966 | 0.0 | 54.855 | 6.617 | 0.0 | 52.328 | 6.394 | 0.0 | 41.657 | 4.6 | 0.0 | 42.66 | 4.541 |
|-----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-----|-----|-------|-------|

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| 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     | 5188        | 5189      | SN   | 1    | 0.0           | 25.727  | 8.047      | 0.0        | 27.233 | 8.053      | 0.0       | 67.548  | 1.529      | 0.0        | 74.538  | 1.778      | 0.0             | 1.875 | 0.0        | 0.0        | 1.941 | 0.0        | 0.0       | 2.006 | 0.0        | 0.0        | 2.038 | 0.0        |
| 2     | 5188        | 5189      | SN   | 1    | 0.0           | 25.727  | 8.062      | 0.0        | 27.233 | 8.118      | 0.0       | 67.548  | 1.515      | 0.0        | 74.538  | 1.937      | 0.0             | 1.875 | 0.0        | 0.0        | 1.941 | 0.0        | 0.0       | 2.006 | 0.0        | 0.0        | 2.038 | 0.0        |
| 3     | 5188        | 5189      | SN   | 1    | 0.0           | 25.727  | 8.062      | 0.0        | 27.233 | 8.118      | 0.0       | 67.548  | 1.515      | 0.0        | 74.538  | 1.937      | 0.0             | 1.875 | 0.0        | 0.0        | 1.941 | 0.0        | 0.0       | 2.006 | 0.0        | 0.0        | 2.038 | 0.0        |
| 4     | 5188        | 5189      | NS   | 1    | 0.0           | 27.228  | 13.792     | 0.0        | 31.342 | 16.088     | 0.0       | 354.336 | 14.841     | 0.0        | 153.289 | 14.945     | 0.0             | 1.921 | 0.0        | 0.0        | 1.924 | 0.0        | 0.0       | 2.083 | 0.0        | 0.0        | 2.071 | 0.0        |
| 5     | 5188        | 5189      | NS   | 1    | 0.0           | 27.228  | 13.792     | 0.0        | 31.342 | 16.088     | 0.0       | 354.336 | 14.841     | 0.0        | 153.289 | 14.945     | 0.0             | 1.921 | 0.0        | 0.0        | 1.924 | 0.0        | 0.0       | 2.083 | 0.0        | 0.0        | 2.071 | 0.0        |
| 6     | 5188        | 5189      | SN   | 1    | 0.0           | 30.901  | 15.077     | 0.0        | 28.623 | 14.11      | 0.0       | 82.51   | 9.807      | 0.0        | 96.876  | 9.805      | 0.0             | 1.869 | 0.0        | 0.0        | 1.965 | 0.0        | 0.0       | 2.01  | 0.0        | 0.0        | 2.03  | 0.0        |
| 7     | 5188        | 5189      | NS   | 1    | 0.0           | 27.046  | 11.121     | 0.0        | 27.001 | 10.429     | 0.0       | 355.776 | 5.693      | 0.0        | 130.468 | 5.653      | 0.0             | 1.931 | 0.0        | 0.0        | 1.914 | 0.0        | 0.0       | 2.08  | 0.0        | 0.0        | 2.072 | 0.0        |
| 8     | 5188        | 5189      | SN   | 1    | 0.0           | 30.901  | 15.131     | 0.0        | 28.623 | 13.785     | 0.0       | 82.51   | 9.931      | 0.0        | 96.876  | 9.322      | 0.0             | 1.869 | 0.0        | 0.0        | 1.965 | 0.0        | 0.0       | 2.01  | 0.0        | 0.0        | 2.03  | 0.0        |
| 9     | 5188        | 5189      | SN   | 1    | 0.0           | 30.901  | 15.087     | 0.0        | 28.623 | 14.11      | 0.0       | 82.51   | 9.807      | 0.0        | 96.876  | 9.805      | 0.0             | 1.869 | 0.0        | 0.0        | 1.965 | 0.0        | 0.0       | 2.01  | 0.0        | 0.0        | 2.03  | 0.0        |
| 10    | 5188        | 5189      | NS   | 1    | 0.0           | 27.046  | 11.121     | 0.0        | 27.001 | 10.429     | 0.0       | 355.776 | 5.693      | 0.0        | 130.468 | 5.653      | 0.0             | 1.931 | 0.0        | 0.0        | 1.914 | 0.0        | 0.0       | 2.08  | 0.0        | 0.0        | 2.072 | 0.0        |
| 11    | 5189        | 5190      | NS   | 1    | 0.0           | 27.222  | 13.705     | 0.0        | 32.698 | 16.026     | 0.0       | 158.168 | 14.78      | 0.0        | 148.486 | 15.071     | 0.0             | 1.923 | 0.0        | 0.0        | 1.917 | 0.0        | 0.0       | 2.083 | 0.0        | 0.0        | 2.072 | 0.0        |
| 12    | 5189        | 5190      | NS   | 1    | 0.0           | 27.222  | 13.705     | 0.0        | 32.698 | 16.026     | 0.0       | 158.151 | 14.766     | 0.0        | 148.458 | 15.05      | 0.0             | 1.923 | 0.0        | 0.0        | 1.916 | 0.0        | 0.0       | 2.083 | 0.0        | 0.0        | 2.072 | 0.0        |
| 13    | 5189        | 5190      | SN   | 1    | 0.0           | 25.744  | 8.054      | 0.0        | 27.233 | 8.062      | 0.0       | 73.609  | 1.539      | 0.0        | 14.151  | 1.843      | 0.0             | 1.876 | 0.0        | 0.0        | 1.944 | 0.0        | 0.0       | 2.005 | 0.0        | 0.0        | 2.049 | 0.0        |
| 14    | 5189        | 5190      | SN   | 1    | 0.0           | 25.744  | 8.041      | 0.0        | 27.233 | 8.057      | 0.0       | 73.581  | 1.55       | 0.0        | 14.146  | 1.837      | 0.0             | 1.875 | 0.0        | 0.0        | 1.944 | 0.0        | 0.0       | 2.005 | 0.0        | 0.0        | 2.05  | 0.0        |
| 15    | 5189        | 5190      | SN   | 1    | 0.0           | 32.649  | 15.123     | 0.0        | 28.623 | 13.901     | 0.0       | 89.95   | 9.903      | 0.0        | 22.236  | 9.665      | 0.0             | 1.873 | 0.0        | 0.0        | 1.965 | 0.0        | 0.0       | 2.01  | 0.0        | 0.0        | 2.039 | 0.0        |
| 16    | 5189        | 5190      | SN   | 1    | 0.0           | 25.744  | 8.055      | 0.0        | 27.233 | 8.092      | 0.0       | 73.609  | 1.534      | 0.0        | 63.445  | 1.948      | 0.0             | 1.876 | 0.0        | 0.0        | 1.944 | 0.0        | 0.0       | 2.005 | 0.0        | 0.0        | 2.049 | 0.0        |
| 17    | 5189        | 5190      | SN   | 1    | 0.0           | 32.649  | 15.092     | 0.0        | 28.623 | 14.033     | 0.0       | 89.95   | 9.858      | 0.0        | 73.995  | 9.872      | 0.0             | 1.873 | 0.0        | 0.0        | 1.965 | 0.0        | 0.0       | 2.01  | 0.0        | 0.0        | 2.039 | 0.0        |
| 18    | 5189        | 5190      | NS   | 1    | 0.0           | 27.051  | 11.113     | 0.0        | 27.001 | 10.359     | 0.0       | 145.72  | 5.685      | 0.0        | 146.065 | 5.616      | 0.0             | 1.931 | 0.0        | 0.0        | 1.913 | 0.0        | 0.0       | 2.082 | 0.0        | 0.0        | 2.071 | 0.0        |
| 19    | 5189        | 5190      | NS   | 1    | 0.0           | 27.051  | 11.111     | 0.0        | 27.001 | 10.357     | 0.0       | 145.748 | 5.683      | 0.0        | 146.098 | 5.615      | 0.0             | 1.931 | 0.0        | 0.0        | 1.913 | 0.0        | 0.0       | 2.082 | 0.0        | 0.0        | 2.071 | 0.0        |
| 20    | 5189        | 5190      | SN   | 1    | 0.0           | 32.649  | 15.113     | 0.0        | 28.623 | 13.884     | 0.0       | 89.917  | 9.903      | 0.0        | 22.242  | 9.629      | 0.0             | 1.872 | 0.0        | 0.0        | 1.965 | 0.0        | 0.0       | 2.01  | 0.0        | 0.0        | 2.036 | 0.0        |
| 21    | 5190        | 5191      | SN   | 1    | 0.0           | 25.744  | 8.046      | 0.0        | 27.233 | 8.077      | 0.0       | 137.974 | 1.549      | 0.0        | 66.086  | 1.975      | 0.0             | 1.877 | 0.0        | 0.0        | 1.944 | 0.0        | 0.0       | 2.005 | 0.0        | 0.0        | 2.049 | 0.0        |
| 22    | 5190        | 5191      | SN   | 1    | 0.0           | 32.665  | 15.096     | 0.0        | 28.628 | 13.79      | 0.0       | 90.485  | 9.904      | 0.0        | 19.451  | 9.556      | 0.0             | 1.872 | 0.0        | 0.0        | 1.966 | 0.0        | 0.0       | 2.012 | 0.0        | 0.0        | 2.036 | 0.0        |
| 23    | 5190        | 5191      | SN   | 1    | 0.0           | 32.665  | 15.078     | 0.0        | 28.628 | 14.006     | 0.0       | 90.485  | 9.844      | 0.0        | 59.932  | 9.858      | 0.0             | 1.872 | 0.0        | 0.0        | 1.966 | 0.0        | 0.0       | 2.012 | 0.0        | 0.0        | 2.036 | 0.0        |
| 24    | 5190        | 5191      | SN   | 1    | 0.0           | 32.665  | 15.078     | 0.0        | 28.628 | 14.006     | 0.0       | 90.485  | 9.844      | 0.0        | 59.932  | 9.858      | 0.0             | 1.872 | 0.0        | 0.0        | 1.966 | 0.0        | 0.0       | 2.012 | 0.0        | 0.0        | 2.036 | 0.0        |
| 25    | 5190        | 5191      | NS   | 1    | 0.0           | 27.239  | 13.737     | 0.0        | 32.721 | 15.974     | 0.0       | 150.755 | 14.851     | 0.0        | 149.721 | 15.0       | 0.0             | 1.922 | 0.0        | 0.0        | 1.906 | 0.0        | 0.0       | 2.083 | 0.0        | 0.0        | 2.072 | 0.0        |
| 26    | 5190        | 5191      | NS   | 1    | 0.0           | 27.051  | 11.121     | 0.0        | 26.99  | 10.334     | 0.0       | 144.612 | 5.662      | 0.0        | 139.596 | 5.615      | 0.0             | 1.928 | 0.0        | 0.0        | 1.916 | 0.0        | 0.0       | 2.082 | 0.0        | 0.0        | 2.071 | 0.0        |
| 27    | 5190        | 5191      | SN   | 1    | 0.0           | 25.744  | 8.04       | 0.0        | 27.233 | 8.038      | 0.0       | 137.974 | 1.551      | 0.0        | 13.567  | 1.845      | 0.0             | 1.877 | 0.0        | 0.0        | 1.944 | 0.0        | 0.0       | 2.005 | 0.0        | 0.0        | 2.049 | 0.0        |
| 28    | 5190        | 5191      | SN   | 1    | 0.0           | 25.744  | 8.046      | 0.0        | 27.233 | 8.077      | 0.0       | 137.974 | 1.549      | 0.0        | 66.086  | 1.975      | 0.0             | 1.877 | 0.0        | 0.0        | 1.944 | 0.0        | 0.0       | 2.005 | 0.0        | 0.0        | 2.049 | 0.0        |
| 29    | 5191        | 5192      | NS   | 1    | 0.0           | 31.135  | 11.133     | 0.0        | 26.996 | 10.336     | 0.0       | 352.919 | 5.648      | 0.0        | 137.765 | 5.578      | 0.0             | 1.929 | 0.0        | 0.0        | 1.912 | 0.0        | 0.0       | 2.082 | 0.0        | 0.0        | 2.07  | 0.0        |
| 30    | 5191        | 5192      | NS   | 1    | 0.0           | 43.136  | 13.76      | 0.0        | 32.715 | 15.955     | 0.0       | 171.155 | 14.801     | 0.0        | 74.805  | 15.017     | 0.0             | 1.924 | 0.0        | 0.0        | 1.919 | 0.0        | 0.0       | 2.083 | 0.0        | 0.0        | 2.072 | 0.0        |
| 31    | 5191        | 5192      | NS   | 1    | 0.0           | 232.355 | 13.743     | 0.0        | 32.577 | 16.061     | 0.0       | 156.149 | 14.878     | 0.0        | 146.909 | 14.968     | 0.0             | 1.924 | 0.0        | 0.0        | 1.923 | 0.0        | 0.0       | 2.083 | 0.0        | 0.0        | 2.072 | 0.0        |

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



|    |      |      |    |   |     |         |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|----|------|------|----|---|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 32 | 5191 | 5192 | SN | 1 | 0.0 | 32.726  | 15.111 | 0.0 | 28.628  | 13.713 | 0.0 | 82.736  | 10.084 | 0.0 | 16.926  | 9.405  | 0.0 | 1.873 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.036 | 0.0 |
| 33 | 5191 | 5192 | SN | 1 | 0.0 | 32.726  | 15.059 | 0.0 | 28.628  | 14.019 | 0.0 | 82.736  | 9.959  | 0.0 | 60.979  | 9.887  | 0.0 | 1.873 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.036 | 0.0 |
| 34 | 5191 | 5192 | SN | 1 | 0.0 | 32.726  | 15.059 | 0.0 | 28.628  | 14.019 | 0.0 | 82.736  | 9.959  | 0.0 | 61.001  | 9.887  | 0.0 | 1.873 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.036 | 0.0 |
| 35 | 5191 | 5192 | SN | 1 | 0.0 | 25.755  | 8.06   | 0.0 | 27.25   | 8.066  | 0.0 | 135.244 | 1.547  | 0.0 | 41.131  | 1.972  | 0.0 | 1.878 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.049 | 0.0 |
| 36 | 5191 | 5192 | NS | 1 | 0.0 | 231.142 | 11.139 | 0.0 | 26.996  | 10.332 | 0.0 | 351.992 | 5.652  | 0.0 | 137.765 | 5.597  | 0.0 | 1.928 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.07  | 0.0 |
| 37 | 5191 | 5192 | SN | 1 | 0.0 | 25.755  | 8.051  | 0.0 | 27.25   | 8.017  | 0.0 | 135.244 | 1.562  | 0.0 | 12.938  | 1.819  | 0.0 | 1.878 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.049 | 0.0 |
| 38 | 5191 | 5192 | SN | 1 | 0.0 | 25.755  | 8.06   | 0.0 | 27.25   | 8.066  | 0.0 | 135.244 | 1.547  | 0.0 | 41.158  | 1.974  | 0.0 | 1.878 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.049 | 0.0 |
| 39 | 5192 | 5193 | NS | 1 | 0.0 | 27.046  | 11.11  | 0.0 | 26.996  | 10.357 | 0.0 | 315.742 | 5.637  | 0.0 | 146.329 | 5.596  | 0.0 | 1.93  | 0.0 | 0.0 | 1.915 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.072 | 0.0 |
| 40 | 5192 | 5193 | SN | 1 | 0.0 | 25.755  | 8.032  | 0.0 | 45.67   | 8.093  | 0.0 | 152.231 | 1.538  | 0.0 | 86.663  | 1.965  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.059 | 0.0 |
| 41 | 5192 | 5193 | SN | 1 | 0.0 | 25.755  | 8.032  | 0.0 | 45.67   | 8.093  | 0.0 | 152.231 | 1.538  | 0.0 | 86.663  | 1.965  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.059 | 0.0 |
| 42 | 5192 | 5193 | SN | 1 | 0.0 | 32.086  | 15.082 | 0.0 | 28.628  | 14.016 | 0.0 | 152.231 | 9.984  | 0.0 | 72.826  | 9.877  | 0.0 | 1.859 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.058 | 0.0 |
| 43 | 5192 | 5193 | SN | 1 | 0.0 | 32.086  | 15.082 | 0.0 | 28.628  | 14.016 | 0.0 | 152.231 | 9.984  | 0.0 | 72.826  | 9.877  | 0.0 | 1.859 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.058 | 0.0 |
| 44 | 5192 | 5193 | NS | 1 | 0.0 | 27.228  | 13.705 | 0.0 | 32.538  | 16.041 | 0.0 | 353.222 | 14.9   | 0.0 | 153.466 | 15.004 | 0.0 | 1.93  | 0.0 | 0.0 | 1.927 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.07  | 0.0 |
| 45 | 5192 | 5193 | NS | 1 | 0.0 | 27.228  | 13.715 | 0.0 | 32.538  | 16.061 | 0.0 | 353.222 | 14.871 | 0.0 | 153.383 | 15.004 | 0.0 | 1.93  | 0.0 | 0.0 | 1.924 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.069 | 0.0 |
| 46 | 5192 | 5193 | NS | 1 | 0.0 | 27.046  | 11.106 | 0.0 | 26.996  | 10.35  | 0.0 | 315.731 | 5.645  | 0.0 | 146.203 | 5.596  | 0.0 | 1.931 | 0.0 | 0.0 | 1.915 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.072 | 0.0 |
| 47 | 5193 | 5194 | NS | 1 | 0.0 | 27.046  | 11.108 | 0.0 | 27.001  | 10.402 | 0.0 | 130.041 | 5.666  | 0.0 | 124.766 | 5.621  | 0.0 | 1.931 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.082 | 0.0 | 0.0 | 2.07  | 0.0 |
| 48 | 5193 | 5194 | SN | 1 | 0.0 | 32.897  | 15.066 | 0.0 | 28.623  | 13.994 | 0.0 | 82.697  | 9.949  | 0.0 | 63.56   | 9.899  | 0.0 | 1.876 | 0.0 | 0.0 | 1.967 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.058 | 0.0 |
| 49 | 5193 | 5194 | NS | 1 | 0.0 | 27.222  | 13.664 | 0.0 | 32.516  | 16.072 | 0.0 | 147.071 | 14.885 | 0.0 | 149.512 | 14.983 | 0.0 | 1.931 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.072 | 0.0 |
| 50 | 5193 | 5194 | SN | 1 | 0.0 | 25.744  | 8.01   | 0.0 | 27.233  | 8.091  | 0.0 | 77.442  | 1.54   | 0.0 | 13.473  | 1.833  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.039 | 0.0 |
| 51 | 5193 | 5194 | NS | 1 | 0.0 | 27.046  | 11.104 | 0.0 | 27.001  | 10.402 | 0.0 | 130.041 | 5.661  | 0.0 | 124.953 | 5.613  | 0.0 | 1.93  | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.081 | 0.0 | 0.0 | 2.07  | 0.0 |
| 52 | 5193 | 5194 | SN | 1 | 0.0 | 32.897  | 15.102 | 0.0 | 28.623  | 13.819 | 0.0 | 82.697  | 10.03  | 0.0 | 18.69   | 9.568  | 0.0 | 1.876 | 0.0 | 0.0 | 1.967 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.058 | 0.0 |
| 53 | 5193 | 5194 | NS | 1 | 0.0 | 27.217  | 13.675 | 0.0 | 32.516  | 16.06  | 0.0 | 147.082 | 14.885 | 0.0 | 149.638 | 14.976 | 0.0 | 1.931 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.072 | 0.0 |
| 54 | 5193 | 5194 | SN | 1 | 0.0 | 25.744  | 8.008  | 0.0 | 27.233  | 8.133  | 0.0 | 77.442  | 1.534  | 0.0 | 43.326  | 1.962  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.039 | 0.0 |
| 55 | 5193 | 5194 | SN | 1 | 0.0 | 32.897  | 15.068 | 0.0 | 28.623  | 13.994 | 0.0 | 82.697  | 9.949  | 0.0 | 52.481  | 9.899  | 0.0 | 1.876 | 0.0 | 0.0 | 1.967 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.058 | 0.0 |
| 56 | 5193 | 5194 | SN | 1 | 0.0 | 25.744  | 8.008  | 0.0 | 27.233  | 8.133  | 0.0 | 77.442  | 1.534  | 0.0 | 43.326  | 1.962  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.039 | 0.0 |
| 57 | 5194 | 5195 | NS | 1 | 0.0 | 27.051  | 11.113 | 0.0 | 27.007  | 10.445 | 0.0 | 153.965 | 5.681  | 0.0 | 169.939 | 5.656  | 0.0 | 1.93  | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.082 | 0.0 | 0.0 | 2.071 | 0.0 |
| 58 | 5194 | 5195 | SN | 1 | 0.0 | 30.895  | 15.17  | 0.0 | 28.088  | 13.583 | 0.0 | 90.766  | 10.1   | 0.0 | 14.102  | 9.039  | 0.0 | 1.869 | 0.0 | 0.0 | 1.967 | 0.0 | 0.0 | 2.01  | 0.0 | 0.0 | 2.037 | 0.0 |
| 59 | 5194 | 5195 | SN | 1 | 0.0 | 30.895  | 15.075 | 0.0 | 28.623  | 14.079 | 0.0 | 90.766  | 9.849  | 0.0 | 64.465  | 9.848  | 0.0 | 1.869 | 0.0 | 0.0 | 1.967 | 0.0 | 0.0 | 2.01  | 0.0 | 0.0 | 2.037 | 0.0 |
| 60 | 5194 | 5195 | SN | 1 | 0.0 | 30.895  | 15.056 | 0.0 | 28.623  | 14.063 | 0.0 | 90.821  | 9.87   | 0.0 | 64.388  | 9.912  | 0.0 | 1.87  | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.011 | 0.0 | 0.0 | 2.037 | 0.0 |
| 61 | 5194 | 5195 | NS | 1 | 0.0 | 27.239  | 13.759 | 0.0 | 31.529  | 16.076 | 0.0 | 155.074 | 14.77  | 0.0 | 131.968 | 14.995 | 0.0 | 1.924 | 0.0 | 0.0 | 1.91  | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.073 | 0.0 |
| 62 | 5194 | 5195 | NS | 1 | 0.0 | 27.239  | 13.718 | 0.0 | 31.524  | 16.105 | 0.0 | 155.079 | 14.763 | 0.0 | 131.792 | 14.974 | 0.0 | 1.924 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.073 | 0.0 |
| 63 | 5194 | 5195 | SN | 1 | 0.0 | 25.733  | 8.03   | 0.0 | 27.239  | 8.018  | 0.0 | 124.683 | 1.583  | 0.0 | 11.355  | 1.752  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.054 | 0.0 |
| 64 | 5194 | 5195 | SN | 1 | 0.0 | 25.733  | 8.03   | 0.0 | 104.297 | 8.155  | 0.0 | 124.755 | 1.534  | 0.0 | 68.502  | 1.96   | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.041 | 0.0 |
| 65 | 5194 | 5195 | SN | 1 | 0.0 | 25.733  | 8.021  | 0.0 | 27.239  | 8.148  | 0.0 | 124.683 | 1.534  | 0.0 | 68.596  | 1.963  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.054 | 0.0 |
| 66 | 5194 | 5195 | NS | 1 | 0.0 | 27.051  | 11.1   | 0.0 | 27.007  | 10.432 | 0.0 | 153.938 | 5.683  | 0.0 | 170.176 | 5.647  | 0.0 | 1.928 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.081 | 0.0 | 0.0 | 2.072 | 0.0 |
| 67 | 5195 | 5196 | SN | 1 | 0.0 | 25.739  | 8.041  | 0.0 | 27.244  | 8.173  | 0.0 | 65.226  | 1.495  | 0.0 | 65.753  | 1.937  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.037 | 0.0 |
| 68 | 5195 | 5196 | NS | 1 | 0.0 | 27.233  | 13.738 | 0.0 | 32.704  | 16.105 | 0.0 | 354.325 | 14.742 | 0.0 | 166.145 | 14.967 | 0.0 | 1.923 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.071 | 0.0 |

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

|     |      |      |    |   |     |        |        |     |        |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 69  | 5195 | 5196 | NS | 1 | 0.0 | 27.239 | 13.747 | 0.0 | 32.704 | 16.115 | 0.0 | 354.325 | 14.748 | 0.0 | 166.382 | 14.974 | 0.0 | 1.923 | 0.0 | 0.0 | 1.921 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.073 | 0.0 |
| 70  | 5195 | 5196 | SN | 1 | 0.0 | 30.912 | 15.283 | 0.0 | 26.389 | 13.436 | 0.0 | 88.389  | 10.3   | 0.0 | 280.749 | 8.619  | 0.0 | 1.863 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.01  | 0.0 | 0.0 | 2.031 | 0.0 |
| 71  | 5195 | 5196 | SN | 1 | 0.0 | 30.912 | 15.039 | 0.0 | 28.628 | 14.038 | 0.0 | 88.389  | 9.834  | 0.0 | 280.749 | 9.806  | 0.0 | 1.863 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.01  | 0.0 | 0.0 | 2.031 | 0.0 |
| 72  | 5195 | 5196 | SN | 1 | 0.0 | 30.912 | 15.039 | 0.0 | 28.628 | 14.038 | 0.0 | 88.389  | 9.834  | 0.0 | 280.749 | 9.806  | 0.0 | 1.863 | 0.0 | 0.0 | 1.966 | 0.0 | 0.0 | 2.01  | 0.0 | 0.0 | 2.031 | 0.0 |
| 73  | 5195 | 5196 | NS | 1 | 0.0 | 27.073 | 11.092 | 0.0 | 27.007 | 10.51  | 0.0 | 354.678 | 5.718  | 0.0 | 148.282 | 5.697  | 0.0 | 1.932 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.072 | 0.0 |
| 74  | 5195 | 5196 | NS | 1 | 0.0 | 27.073 | 11.103 | 0.0 | 27.007 | 10.515 | 0.0 | 354.667 | 5.713  | 0.0 | 148.039 | 5.697  | 0.0 | 1.933 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.071 | 0.0 |
| 75  | 5195 | 5196 | SN | 1 | 0.0 | 25.739 | 8.041  | 0.0 | 27.244 | 8.173  | 0.0 | 65.226  | 1.495  | 0.0 | 65.753  | 1.937  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.037 | 0.0 |
| 76  | 5195 | 5196 | SN | 1 | 0.0 | 25.739 | 8.089  | 0.0 | 27.244 | 8.049  | 0.0 | 65.226  | 1.597  | 0.0 | 11.03   | 1.692  | 0.0 | 1.876 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.006 | 0.0 | 0.0 | 2.037 | 0.0 |
| 77  | 5196 | 5197 | SN | 1 | 0.0 | 25.733 | 8.03   | 0.0 | 27.239 | 8.139  | 0.0 | 65.573  | 1.484  | 0.0 | 66.767  | 1.914  | 0.0 | 1.876 | 0.0 | 0.0 | 1.948 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.039 | 0.0 |
| 78  | 5196 | 5197 | SN | 1 | 0.0 | 25.733 | 8.03   | 0.0 | 27.239 | 8.139  | 0.0 | 65.573  | 1.484  | 0.0 | 66.767  | 1.914  | 0.0 | 1.876 | 0.0 | 0.0 | 1.948 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.039 | 0.0 |
| 79  | 5196 | 5197 | NS | 1 | 0.0 | 27.057 | 11.124 | 0.0 | 27.007 | 10.503 | 0.0 | 354.799 | 5.695  | 0.0 | 133.656 | 5.674  | 0.0 | 1.932 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.082 | 0.0 | 0.0 | 2.073 | 0.0 |
| 80  | 5196 | 5197 | NS | 1 | 0.0 | 27.239 | 13.759 | 0.0 | 29.34  | 16.065 | 0.0 | 354.468 | 14.734 | 0.0 | 156.03  | 14.938 | 0.0 | 1.922 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.072 | 0.0 |
| 81  | 5196 | 5197 | NS | 1 | 0.0 | 27.239 | 13.759 | 0.0 | 29.34  | 16.065 | 0.0 | 354.468 | 14.734 | 0.0 | 156.03  | 14.938 | 0.0 | 1.922 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.072 | 0.0 |
| 82  | 5196 | 5197 | NS | 1 | 0.0 | 27.057 | 11.124 | 0.0 | 27.007 | 10.503 | 0.0 | 354.799 | 5.695  | 0.0 | 133.656 | 5.674  | 0.0 | 1.932 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.082 | 0.0 | 0.0 | 2.073 | 0.0 |
| 83  | 5196 | 5197 | SN | 1 | 0.0 | 30.934 | 15.099 | 0.0 | 28.623 | 14.057 | 0.0 | 81.859  | 9.785  | 0.0 | 76.454  | 9.777  | 0.0 | 1.854 | 0.0 | 0.0 | 1.971 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.033 | 0.0 |
| 84  | 5196 | 5197 | SN | 1 | 0.0 | 30.934 | 15.099 | 0.0 | 28.623 | 14.057 | 0.0 | 81.859  | 9.785  | 0.0 | 76.454  | 9.777  | 0.0 | 1.854 | 0.0 | 0.0 | 1.971 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.033 | 0.0 |
| 85  | 5197 | 5198 | NS | 1 | 0.0 | 27.25  | 13.692 | 0.0 | 31.849 | 16.011 | 0.0 | 157.666 | 14.772 | 0.0 | 149.931 | 14.977 | 0.0 | 1.925 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.072 | 0.0 |
| 86  | 5197 | 5198 | NS | 1 | 0.0 | 27.25  | 13.692 | 0.0 | 31.849 | 16.011 | 0.0 | 157.666 | 14.772 | 0.0 | 149.931 | 14.977 | 0.0 | 1.925 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.072 | 0.0 |
| 87  | 5197 | 5198 | NS | 1 | 0.0 | 27.046 | 11.11  | 0.0 | 27.001 | 10.478 | 0.0 | 145.329 | 5.724  | 0.0 | 140.109 | 5.686  | 0.0 | 1.93  | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.073 | 0.0 |
| 88  | 5197 | 5198 | NS | 1 | 0.0 | 27.046 | 11.11  | 0.0 | 27.001 | 10.478 | 0.0 | 145.329 | 5.724  | 0.0 | 140.109 | 5.686  | 0.0 | 1.93  | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.083 | 0.0 | 0.0 | 2.073 | 0.0 |
| 89  | 5202 | 5203 | SN | 1 | 0.0 | 25.727 | 8.212  | 0.0 | 27.244 | 8.115  | 0.0 | 68.353  | 1.454  | 0.0 | 67.625  | 1.809  | 0.0 | 1.872 | 0.0 | 0.0 | 1.943 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.06  | 0.0 |
| 90  | 5202 | 5203 | SN | 1 | 0.0 | 30.884 | 15.088 | 0.0 | 28.634 | 14.002 | 0.0 | 89.194  | 9.834  | 0.0 | 69.737  | 9.649  | 0.0 | 1.859 | 0.0 | 0.0 | 1.965 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.031 | 0.0 |
| 91  | 5202 | 5203 | SN | 1 | 0.0 | 30.884 | 15.199 | 0.0 | 27.134 | 13.53  | 0.0 | 89.194  | 10.111 | 0.0 | 13.958  | 8.832  | 0.0 | 1.859 | 0.0 | 0.0 | 1.965 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.031 | 0.0 |
| 92  | 5202 | 5203 | SN | 1 | 0.0 | 30.884 | 15.088 | 0.0 | 28.634 | 14.002 | 0.0 | 89.194  | 9.834  | 0.0 | 69.737  | 9.649  | 0.0 | 1.859 | 0.0 | 0.0 | 1.965 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.031 | 0.0 |
| 93  | 5202 | 5203 | SN | 1 | 0.0 | 25.727 | 8.234  | 0.0 | 27.244 | 7.983  | 0.0 | 68.353  | 1.495  | 0.0 | 11.289  | 1.583  | 0.0 | 1.872 | 0.0 | 0.0 | 1.943 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.06  | 0.0 |
| 94  | 5202 | 5203 | SN | 1 | 0.0 | 25.727 | 8.212  | 0.0 | 27.244 | 8.115  | 0.0 | 68.353  | 1.454  | 0.0 | 67.625  | 1.809  | 0.0 | 1.872 | 0.0 | 0.0 | 1.943 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.06  | 0.0 |
| 95  | 5203 | 5204 | NS | 1 | 0.0 | 27.244 | 13.717 | 0.0 | 32.759 | 16.051 | 0.0 | 354.248 | 14.789 | 0.0 | 152.335 | 14.952 | 0.0 | 1.93  | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.07  | 0.0 |
| 96  | 5203 | 5204 | SN | 1 | 0.0 | 25.716 | 8.231  | 0.0 | 27.244 | 8.152  | 0.0 | 66.555  | 1.444  | 0.0 | 54.041  | 1.85   | 0.0 | 1.874 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.048 | 0.0 |
| 97  | 5203 | 5204 | NS | 1 | 0.0 | 27.068 | 11.036 | 0.0 | 27.007 | 10.562 | 0.0 | 354.595 | 5.736  | 0.0 | 133.43  | 5.736  | 0.0 | 1.934 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.072 | 0.0 |
| 98  | 5203 | 5204 | NS | 1 | 0.0 | 27.068 | 11.036 | 0.0 | 27.007 | 10.562 | 0.0 | 354.595 | 5.736  | 0.0 | 133.43  | 5.736  | 0.0 | 1.934 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.072 | 0.0 |
| 99  | 5203 | 5204 | SN | 1 | 0.0 | 25.716 | 8.231  | 0.0 | 27.244 | 8.152  | 0.0 | 66.555  | 1.444  | 0.0 | 54.036  | 1.85   | 0.0 | 1.874 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.048 | 0.0 |
| 100 | 5203 | 5204 | SN | 1 | 0.0 | 30.906 | 15.063 | 0.0 | 28.628 | 13.982 | 0.0 | 82.703  | 9.764  | 0.0 | 75.594  | 9.742  | 0.0 | 1.859 | 0.0 | 0.0 | 1.968 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.032 | 0.0 |
| 101 | 5203 | 5204 | SN | 1 | 0.0 | 30.906 | 15.063 | 0.0 | 28.628 | 13.982 | 0.0 | 82.703  | 9.764  | 0.0 | 75.589  | 9.742  | 0.0 | 1.859 | 0.0 | 0.0 | 1.968 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.032 | 0.0 |
| 102 | 5203 | 5204 | SN | 1 | 0.0 | 30.906 | 15.054 | 0.0 | 28.628 | 13.807 | 0.0 | 82.703  | 9.827  | 0.0 | 19.319  | 9.402  | 0.0 | 1.859 | 0.0 | 0.0 | 1.968 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.032 | 0.0 |
| 103 | 5203 | 5204 | SN | 1 | 0.0 | 25.716 | 8.231  | 0.0 | 27.244 | 8.111  | 0.0 | 66.555  | 1.442  | 0.0 | 13.732  | 1.727  | 0.0 | 1.874 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.048 | 0.0 |
| 104 | 5203 | 5204 | NS | 1 | 0.0 | 27.244 | 13.717 | 0.0 | 32.759 | 16.051 | 0.0 | 354.248 | 14.789 | 0.0 | 152.335 | 14.952 | 0.0 | 1.93  | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.07  | 0.0 |
| 105 | 5204 | 5205 | SN | 1 | 0.0 | 25.722 | 8.232  | 0.0 | 27.25  | 8.079  | 0.0 | 136.127 | 1.487  | 0.0 | 14.879  | 1.737  | 0.0 | 1.872 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.044 | 0.0 |

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

|     |      |      |    |   |     |        |        |     |        |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 106 | 5204 | 5205 | SN | 1 | 0.0 | 25.722 | 8.23   | 0.0 | 27.25  | 8.107  | 0.0 | 136.127 | 1.483  | 0.0 | 62.353  | 1.84   | 0.0 | 1.872 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.044 | 0.0 |
| 107 | 5204 | 5205 | SN | 1 | 0.0 | 32.412 | 15.102 | 0.0 | 28.628 | 13.77  | 0.0 | 85.025  | 9.925  | 0.0 | 19.622  | 9.489  | 0.0 | 1.871 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.051 | 0.0 |
| 108 | 5204 | 5205 | SN | 1 | 0.0 | 32.412 | 15.099 | 0.0 | 28.628 | 13.797 | 0.0 | 85.025  | 9.925  | 0.0 | 22.165  | 9.565  | 0.0 | 1.871 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.051 | 0.0 |
| 109 | 5204 | 5205 | SN | 1 | 0.0 | 32.412 | 15.109 | 0.0 | 28.628 | 13.93  | 0.0 | 85.025  | 9.866  | 0.0 | 68.921  | 9.781  | 0.0 | 1.871 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.051 | 0.0 |
| 110 | 5204 | 5205 | NS | 1 | 0.0 | 27.239 | 13.721 | 0.0 | 29.406 | 15.957 | 0.0 | 156.265 | 14.683 | 0.0 | 145.149 | 14.993 | 0.0 | 1.927 | 0.0 | 0.0 | 1.91  | 0.0 | 0.0 | 2.086 | 0.0 | 0.0 | 2.072 | 0.0 |
| 111 | 5204 | 5205 | NS | 1 | 0.0 | 27.239 | 13.721 | 0.0 | 29.406 | 15.977 | 0.0 | 156.276 | 14.683 | 0.0 | 145.089 | 14.993 | 0.0 | 1.927 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.086 | 0.0 | 0.0 | 2.071 | 0.0 |
| 112 | 5204 | 5205 | NS | 1 | 0.0 | 27.057 | 11.081 | 0.0 | 26.996 | 10.518 | 0.0 | 143.249 | 5.75   | 0.0 | 141.145 | 5.678  | 0.0 | 1.931 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.086 | 0.0 | 0.0 | 2.071 | 0.0 |
| 113 | 5204 | 5205 | NS | 1 | 0.0 | 27.062 | 11.083 | 0.0 | 26.996 | 10.525 | 0.0 | 143.244 | 5.744  | 0.0 | 141.239 | 5.68   | 0.0 | 1.93  | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.086 | 0.0 | 0.0 | 2.071 | 0.0 |
| 114 | 5204 | 5205 | SN | 1 | 0.0 | 25.722 | 8.232  | 0.0 | 27.25  | 8.079  | 0.0 | 136.127 | 1.487  | 0.0 | 14.879  | 1.737  | 0.0 | 1.872 | 0.0 | 0.0 | 1.945 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.044 | 0.0 |
| 115 | 5205 | 5206 | NS | 1 | 0.0 | 27.057 | 11.098 | 0.0 | 27.001 | 10.5   | 0.0 | 148.792 | 5.739  | 0.0 | 136.584 | 5.66   | 0.0 | 1.929 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.068 | 0.0 |
| 116 | 5205 | 5206 | SN | 1 | 0.0 | 25.727 | 8.186  | 0.0 | 27.266 | 8.076  | 0.0 | 139.403 | 1.512  | 0.0 | 13.054  | 1.757  | 0.0 | 1.873 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.047 | 0.0 |
| 117 | 5205 | 5206 | SN | 1 | 0.0 | 32.428 | 15.05  | 0.0 | 28.634 | 13.923 | 0.0 | 91.284  | 9.916  | 0.0 | 70.289  | 9.83   | 0.0 | 1.877 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.01  | 0.0 | 0.0 | 2.05  | 0.0 |
| 118 | 5205 | 5206 | SN | 1 | 0.0 | 25.727 | 8.192  | 0.0 | 27.266 | 8.121  | 0.0 | 139.403 | 1.509  | 0.0 | 65.105  | 1.895  | 0.0 | 1.873 | 0.0 | 0.0 | 1.944 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.047 | 0.0 |
| 119 | 5205 | 5206 | NS | 1 | 0.0 | 27.25  | 13.77  | 0.0 | 31.943 | 15.927 | 0.0 | 154.318 | 14.692 | 0.0 | 142.458 | 14.979 | 0.0 | 1.928 | 0.0 | 0.0 | 1.907 | 0.0 | 0.0 | 2.092 | 0.0 | 0.0 | 2.071 | 0.0 |
| 120 | 5205 | 5206 | SN | 1 | 0.0 | 32.428 | 15.077 | 0.0 | 28.634 | 13.7   | 0.0 | 91.284  | 10.002 | 0.0 | 17.836  | 9.444  | 0.0 | 1.877 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.01  | 0.0 | 0.0 | 2.05  | 0.0 |
| 121 | 5206 | 5207 | NS | 1 | 0.0 | 27.25  | 13.721 | 0.0 | 29.351 | 15.967 | 0.0 | 168.872 | 14.703 | 0.0 | 148.298 | 15.021 | 0.0 | 1.927 | 0.0 | 0.0 | 1.928 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.07  | 0.0 |
| 122 | 5206 | 5207 | NS | 1 | 0.0 | 27.073 | 11.089 | 0.0 | 26.99  | 10.478 | 0.0 | 173.543 | 5.729  | 0.0 | 132.581 | 5.66   | 0.0 | 1.931 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.07  | 0.0 |
| 123 | 5206 | 5207 | NS | 1 | 0.0 | 27.228 | 13.669 | 0.0 | 31.943 | 15.945 | 0.0 | 164.819 | 14.808 | 0.0 | 143.467 | 15.025 | 0.0 | 1.928 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.071 | 0.0 |
| 124 | 5206 | 5207 | SN | 1 | 0.0 | 25.722 | 8.169  | 0.0 | 27.261 | 8.133  | 0.0 | 88.334  | 1.529  | 0.0 | 56.259  | 1.872  | 0.0 | 1.874 | 0.0 | 0.0 | 1.942 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.047 | 0.0 |
| 125 | 5206 | 5207 | SN | 1 | 0.0 | 32.439 | 15.04  | 0.0 | 28.634 | 13.933 | 0.0 | 69.632  | 9.88   | 0.0 | 71.712  | 9.823  | 0.0 | 1.873 | 0.0 | 0.0 | 1.969 | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.049 | 0.0 |
| 126 | 5206 | 5207 | SN | 1 | 0.0 | 25.722 | 8.156  | 0.0 | 27.261 | 8.131  | 0.0 | 88.312  | 1.527  | 0.0 | 56.259  | 1.869  | 0.0 | 1.874 | 0.0 | 0.0 | 1.942 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.047 | 0.0 |
| 127 | 5206 | 5207 | NS | 1 | 0.0 | 27.062 | 11.09  | 0.0 | 27.007 | 10.476 | 0.0 | 315.522 | 5.725  | 0.0 | 119.008 | 5.633  | 0.0 | 1.931 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.07  | 0.0 |
| 128 | 5206 | 5207 | SN | 1 | 0.0 | 32.439 | 15.082 | 0.0 | 28.634 | 13.582 | 0.0 | 69.616  | 10.038 | 0.0 | 16.082  | 9.264  | 0.0 | 1.873 | 0.0 | 0.0 | 1.969 | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.049 | 0.0 |
| 129 | 5206 | 5207 | SN | 1 | 0.0 | 32.439 | 15.03  | 0.0 | 28.634 | 13.923 | 0.0 | 69.616  | 9.902  | 0.0 | 71.712  | 9.866  | 0.0 | 1.873 | 0.0 | 0.0 | 1.969 | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.049 | 0.0 |
| 130 | 5206 | 5207 | SN | 1 | 0.0 | 25.722 | 8.154  | 0.0 | 27.261 | 8.062  | 0.0 | 88.312  | 1.537  | 0.0 | 12.354  | 1.701  | 0.0 | 1.874 | 0.0 | 0.0 | 1.942 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.047 | 0.0 |
| 131 | 5207 | 5208 | NS | 1 | 0.0 | 27.046 | 11.074 | 0.0 | 26.996 | 10.469 | 0.0 | 175.253 | 5.749  | 0.0 | 143.373 | 5.661  | 0.0 | 1.932 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.07  | 0.0 |
| 132 | 5207 | 5208 | NS | 1 | 0.0 | 27.233 | 13.65  | 0.0 | 31.915 | 15.945 | 0.0 | 182.059 | 14.773 | 0.0 | 184.89  | 15.039 | 0.0 | 1.928 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.071 | 0.0 |
| 133 | 5207 | 5208 | NS | 1 | 0.0 | 27.233 | 13.65  | 0.0 | 31.915 | 15.935 | 0.0 | 182.025 | 14.745 | 0.0 | 184.813 | 15.046 | 0.0 | 1.928 | 0.0 | 0.0 | 1.91  | 0.0 | 0.0 | 2.089 | 0.0 | 0.0 | 2.071 | 0.0 |
| 134 | 5207 | 5208 | SN | 1 | 0.0 | 32.119 | 15.134 | 0.0 | 28.612 | 13.478 | 0.0 | 152.771 | 10.212 | 0.0 | 13.843  | 9.1    | 0.0 | 1.855 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.063 | 0.0 |
| 135 | 5207 | 5208 | SN | 1 | 0.0 | 25.733 | 8.164  | 0.0 | 27.255 | 8.168  | 0.0 | 152.771 | 1.497  | 0.0 | 80.254  | 1.894  | 0.0 | 1.874 | 0.0 | 0.0 | 1.949 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.041 | 0.0 |
| 136 | 5207 | 5208 | SN | 1 | 0.0 | 25.733 | 8.164  | 0.0 | 27.255 | 8.168  | 0.0 | 152.771 | 1.497  | 0.0 | 80.254  | 1.894  | 0.0 | 1.874 | 0.0 | 0.0 | 1.949 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.041 | 0.0 |
| 137 | 5207 | 5208 | NS | 1 | 0.0 | 27.046 | 11.083 | 0.0 | 26.996 | 10.487 | 0.0 | 175.214 | 5.747  | 0.0 | 143.23  | 5.67   | 0.0 | 1.933 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.07  | 0.0 |
| 138 | 5207 | 5208 | SN | 1 | 0.0 | 32.119 | 15.056 | 0.0 | 28.645 | 13.9   | 0.0 | 152.771 | 9.969  | 0.0 | 51.108  | 9.894  | 0.0 | 1.855 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.063 | 0.0 |
| 139 | 5207 | 5208 | SN | 1 | 0.0 | 32.119 | 15.056 | 0.0 | 28.645 | 13.9   | 0.0 | 152.771 | 9.969  | 0.0 | 51.108  | 9.894  | 0.0 | 1.855 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.063 | 0.0 |
| 140 | 5207 | 5208 | SN | 1 | 0.0 | 25.733 | 8.168  | 0.0 | 27.255 | 8.047  | 0.0 | 152.771 | 1.528  | 0.0 | 11.212  | 1.676  | 0.0 | 1.874 | 0.0 | 0.0 | 1.949 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.041 | 0.0 |
| 141 | 5208 | 5209 | NS | 1 | 0.0 | 27.068 | 11.041 | 0.0 | 27.007 | 10.543 | 0.0 | 134.856 | 5.744  | 0.0 | 178.272 | 5.718  | 0.0 | 1.932 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.07  | 0.0 |
| 142 | 5208 | 5209 | SN | 1 | 0.0 | 32.175 | 15.18  | 0.0 | 27.035 | 13.449 | 0.0 | 132.084 | 10.267 | 0.0 | 13.826  | 8.765  | 0.0 | 1.853 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.063 | 0.0 |

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

|     |      |      |    |   |     |        |        |     |        |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 143 | 5208 | 5209 | SN | 1 | 0.0 | 32.175 | 15.016 | 0.0 | 28.623 | 13.894 | 0.0 | 132.084 | 9.906  | 0.0 | 57.599  | 9.751  | 0.0 | 1.853 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.063 | 0.0 |
| 144 | 5208 | 5209 | SN | 1 | 0.0 | 32.175 | 15.016 | 0.0 | 28.623 | 13.894 | 0.0 | 132.084 | 9.906  | 0.0 | 57.599  | 9.751  | 0.0 | 1.853 | 0.0 | 0.0 | 1.97  | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.063 | 0.0 |
| 145 | 5208 | 5209 | NS | 1 | 0.0 | 27.239 | 13.776 | 0.0 | 31.259 | 16.053 | 0.0 | 150.424 | 14.76  | 0.0 | 170.822 | 14.951 | 0.0 | 1.932 | 0.0 | 0.0 | 1.929 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.073 | 0.0 |
| 146 | 5208 | 5209 | NS | 1 | 0.0 | 27.228 | 13.701 | 0.0 | 31.871 | 15.935 | 0.0 | 145.114 | 14.809 | 0.0 | 161.507 | 15.054 | 0.0 | 1.929 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.072 | 0.0 |
| 147 | 5208 | 5209 | SN | 1 | 0.0 | 25.733 | 8.198  | 0.0 | 27.261 | 8.042  | 0.0 | 132.084 | 1.535  | 0.0 | 11.195  | 1.601  | 0.0 | 1.872 | 0.0 | 0.0 | 1.949 | 0.0 | 0.0 | 2.004 | 0.0 | 0.0 | 2.034 | 0.0 |
| 148 | 5208 | 5209 | SN | 1 | 0.0 | 25.733 | 8.159  | 0.0 | 27.261 | 8.172  | 0.0 | 132.084 | 1.479  | 0.0 | 39.962  | 1.811  | 0.0 | 1.872 | 0.0 | 0.0 | 1.949 | 0.0 | 0.0 | 2.004 | 0.0 | 0.0 | 2.034 | 0.0 |
| 149 | 5208 | 5209 | SN | 1 | 0.0 | 25.733 | 8.159  | 0.0 | 27.261 | 8.172  | 0.0 | 132.084 | 1.479  | 0.0 | 39.962  | 1.811  | 0.0 | 1.872 | 0.0 | 0.0 | 1.949 | 0.0 | 0.0 | 2.004 | 0.0 | 0.0 | 2.034 | 0.0 |
| 150 | 5208 | 5209 | NS | 1 | 0.0 | 27.051 | 11.047 | 0.0 | 27.001 | 10.542 | 0.0 | 142.284 | 5.742  | 0.0 | 128.599 | 5.716  | 0.0 | 1.932 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.07  | 0.0 |
| 151 | 5209 | 5210 | SN | 1 | 0.0 | 30.901 | 15.309 | 0.0 | 26.864 | 13.385 | 0.0 | 130.452 | 10.252 | 0.0 | 13.137  | 8.275  | 0.0 | 1.861 | 0.0 | 0.0 | 1.968 | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.027 | 0.0 |
| 152 | 5209 | 5210 | SN | 1 | 0.0 | 25.727 | 8.257  | 0.0 | 27.255 | 8.047  | 0.0 | 121.937 | 1.54   | 0.0 | 11.168  | 1.469  | 0.0 | 1.872 | 0.0 | 0.0 | 1.947 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.035 | 0.0 |
| 153 | 5209 | 5210 | SN | 1 | 0.0 | 30.901 | 15.075 | 0.0 | 28.634 | 13.943 | 0.0 | 130.452 | 9.841  | 0.0 | 63.93   | 9.492  | 0.0 | 1.861 | 0.0 | 0.0 | 1.968 | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.027 | 0.0 |
| 154 | 5209 | 5210 | NS | 1 | 0.0 | 27.068 | 10.999 | 0.0 | 27.001 | 10.567 | 0.0 | 154.787 | 5.754  | 0.0 | 160.773 | 5.752  | 0.0 | 1.935 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.072 | 0.0 |
| 155 | 5209 | 5210 | SN | 1 | 0.0 | 30.901 | 15.075 | 0.0 | 28.634 | 13.943 | 0.0 | 130.452 | 9.841  | 0.0 | 63.93   | 9.492  | 0.0 | 1.861 | 0.0 | 0.0 | 1.968 | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.027 | 0.0 |
| 156 | 5209 | 5210 | SN | 1 | 0.0 | 25.727 | 8.194  | 0.0 | 27.255 | 8.171  | 0.0 | 121.937 | 1.455  | 0.0 | 68.43   | 1.725  | 0.0 | 1.872 | 0.0 | 0.0 | 1.947 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.035 | 0.0 |
| 157 | 5209 | 5210 | SN | 1 | 0.0 | 25.727 | 8.194  | 0.0 | 27.255 | 8.171  | 0.0 | 121.937 | 1.455  | 0.0 | 68.43   | 1.725  | 0.0 | 1.872 | 0.0 | 0.0 | 1.947 | 0.0 | 0.0 | 2.005 | 0.0 | 0.0 | 2.035 | 0.0 |
| 158 | 5209 | 5210 | NS | 1 | 0.0 | 27.244 | 13.744 | 0.0 | 31.336 | 16.04  | 0.0 | 154.566 | 14.846 | 0.0 | 159.593 | 14.938 | 0.0 | 1.925 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.086 | 0.0 | 0.0 | 2.073 | 0.0 |
| 159 | 5209 | 5210 | NS | 1 | 0.0 | 27.244 | 13.744 | 0.0 | 31.336 | 16.04  | 0.0 | 154.566 | 14.846 | 0.0 | 159.593 | 14.938 | 0.0 | 1.925 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.086 | 0.0 | 0.0 | 2.073 | 0.0 |
| 160 | 5209 | 5210 | NS | 1 | 0.0 | 27.068 | 10.999 | 0.0 | 27.001 | 10.567 | 0.0 | 154.787 | 5.754  | 0.0 | 160.773 | 5.752  | 0.0 | 1.935 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.072 | 0.0 |
| 161 | 5210 | 5211 | NS | 1 | 0.0 | 27.244 | 13.769 | 0.0 | 29.34  | 15.955 | 0.0 | 352.676 | 14.828 | 0.0 | 139.838 | 15.012 | 0.0 | 1.924 | 0.0 | 0.0 | 1.92  | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.072 | 0.0 |
| 162 | 5210 | 5211 | NS | 1 | 0.0 | 27.068 | 10.983 | 0.0 | 27.001 | 10.582 | 0.0 | 354.496 | 5.788  | 0.0 | 124.959 | 5.765  | 0.0 | 1.935 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.071 | 0.0 |
| 163 | 5210 | 5211 | SN | 1 | 0.0 | 25.727 | 8.129  | 0.0 | 27.266 | 8.187  | 0.0 | 65.728  | 1.441  | 0.0 | 68.077  | 1.713  | 0.0 | 1.872 | 0.0 | 0.0 | 1.947 | 0.0 | 0.0 | 2.004 | 0.0 | 0.0 | 2.052 | 0.0 |
| 164 | 5210 | 5211 | NS | 1 | 0.0 | 27.062 | 10.986 | 0.0 | 27.007 | 10.607 | 0.0 | 354.54  | 5.787  | 0.0 | 137.947 | 5.777  | 0.0 | 1.932 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.084 | 0.0 | 0.0 | 2.071 | 0.0 |
| 165 | 5210 | 5211 | NS | 1 | 0.0 | 27.228 | 13.765 | 0.0 | 31.386 | 16.04  | 0.0 | 355.599 | 14.861 | 0.0 | 151.398 | 14.95  | 0.0 | 1.931 | 0.0 | 0.0 | 1.928 | 0.0 | 0.0 | 2.087 | 0.0 | 0.0 | 2.073 | 0.0 |
| 166 | 5210 | 5211 | SN | 1 | 0.0 | 25.727 | 8.129  | 0.0 | 27.266 | 8.187  | 0.0 | 65.728  | 1.441  | 0.0 | 68.077  | 1.713  | 0.0 | 1.872 | 0.0 | 0.0 | 1.947 | 0.0 | 0.0 | 2.004 | 0.0 | 0.0 | 2.052 | 0.0 |
| 167 | 5210 | 5211 | SN | 1 | 0.0 | 30.934 | 15.024 | 0.0 | 28.639 | 13.985 | 0.0 | 88.648  | 9.785  | 0.0 | 69.87   | 9.4    | 0.0 | 1.861 | 0.0 | 0.0 | 1.969 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.028 | 0.0 |
| 168 | 5210 | 5211 | SN | 1 | 0.0 | 30.934 | 15.024 | 0.0 | 28.639 | 13.985 | 0.0 | 88.648  | 9.785  | 0.0 | 69.87   | 9.4    | 0.0 | 1.861 | 0.0 | 0.0 | 1.969 | 0.0 | 0.0 | 2.009 | 0.0 | 0.0 | 2.028 | 0.0 |
| 169 | 5211 | 5212 | SN | 1 | 0.0 | 25.727 | 8.134  | 0.0 | 27.25  | 8.139  | 0.0 | 66.61   | 1.429  | 0.0 | 57.692  | 1.686  | 0.0 | 1.871 | 0.0 | 0.0 | 1.949 | 0.0 | 0.0 | 2.004 | 0.0 | 0.0 | 2.038 | 0.0 |
| 170 | 5211 | 5212 | NS | 1 | 0.0 | 27.233 | 13.769 | 0.0 | 29.34  | 15.965 | 0.0 | 157.302 | 14.814 | 0.0 | 141.581 | 15.041 | 0.0 | 1.93  | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.072 | 0.0 |
| 171 | 5211 | 5212 | NS | 1 | 0.0 | 27.233 | 13.769 | 0.0 | 29.34  | 15.965 | 0.0 | 157.302 | 14.814 | 0.0 | 141.581 | 15.041 | 0.0 | 1.93  | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.072 | 0.0 |
| 172 | 5211 | 5212 | SN | 1 | 0.0 | 30.934 | 15.062 | 0.0 | 28.634 | 13.974 | 0.0 | 82.504  | 9.749  | 0.0 | 75.473  | 9.45   | 0.0 | 1.859 | 0.0 | 0.0 | 1.971 | 0.0 | 0.0 | 2.008 | 0.0 | 0.0 | 2.03  | 0.0 |
| 173 | 5211 | 5212 | NS | 1 | 0.0 | 27.062 | 11.047 | 0.0 | 27.001 | 10.6   | 0.0 | 143.784 | 5.775  | 0.0 | 134.538 | 5.767  | 0.0 | 1.929 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.071 | 0.0 |
| 174 | 5211 | 5212 | NS | 1 | 0.0 | 27.062 | 11.047 | 0.0 | 27.001 | 10.6   | 0.0 | 143.784 | 5.775  | 0.0 | 134.538 | 5.767  | 0.0 | 1.929 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.085 | 0.0 | 0.0 | 2.071 | 0.0 |
| 175 | 5212 | 5213 | NS | 1 | 0.0 | 27.068 | 11.023 | 0.0 | 27.007 | 10.609 | 0.0 | 142.588 | 5.768  | 0.0 | 135.95  | 5.756  | 0.0 | 1.931 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.086 | 0.0 | 0.0 | 2.071 | 0.0 |
| 176 | 5212 | 5213 | NS | 1 | 0.0 | 27.25  | 13.801 | 0.0 | 29.334 | 15.955 | 0.0 | 155.686 | 14.75  | 0.0 | 142.061 | 15.012 | 0.0 | 1.927 | 0.0 | 0.0 | 1.921 | 0.0 | 0.0 | 2.088 | 0.0 | 0.0 | 2.072 | 0.0 |

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