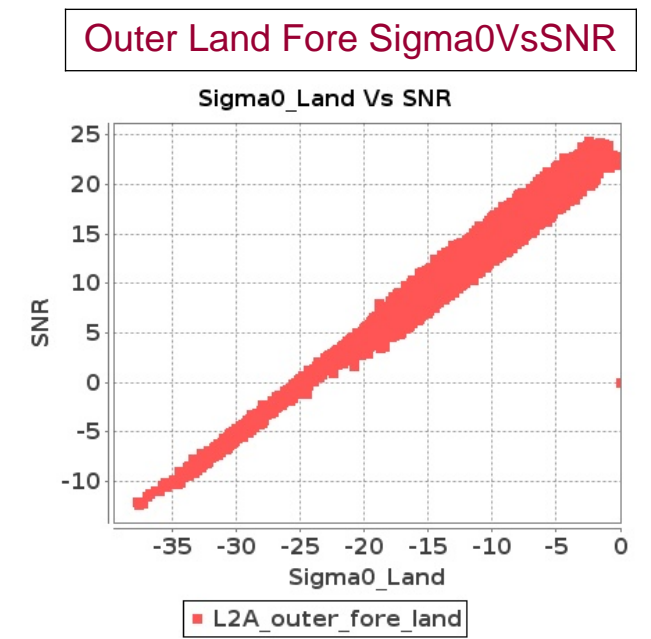
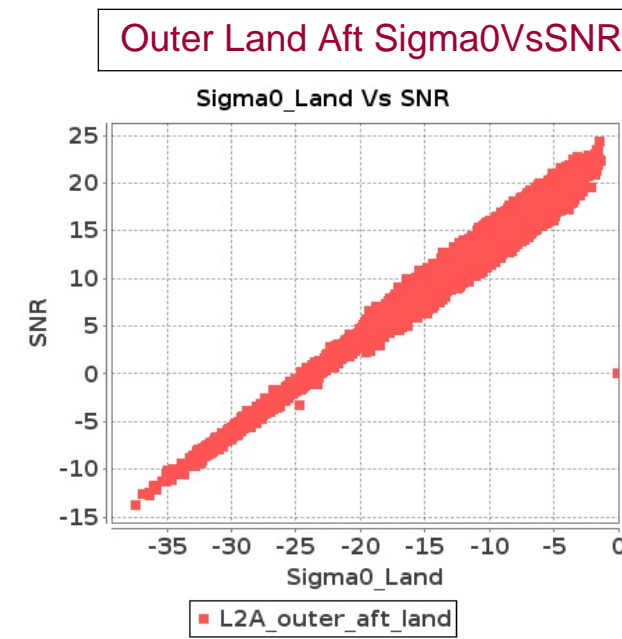
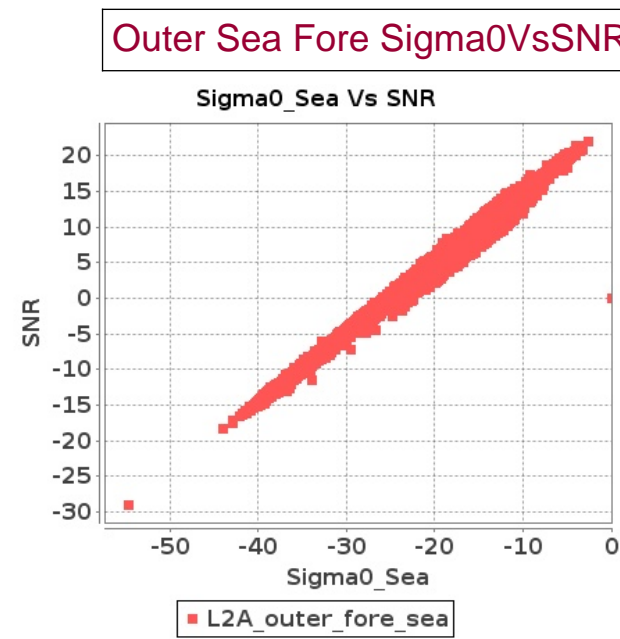
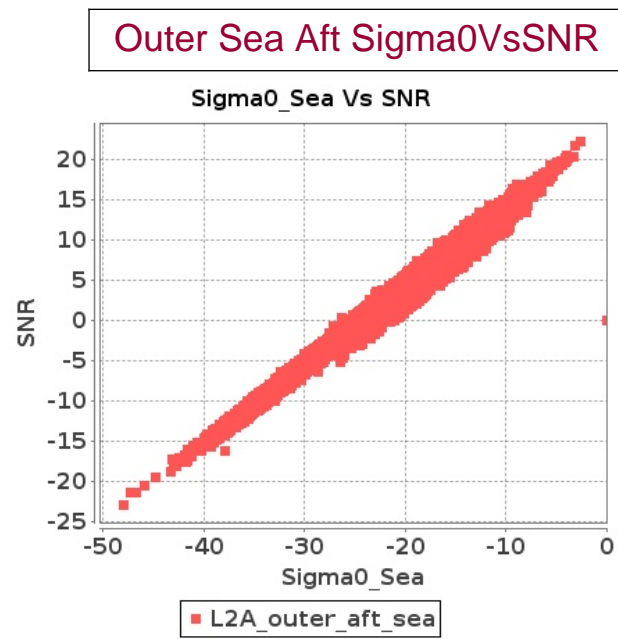
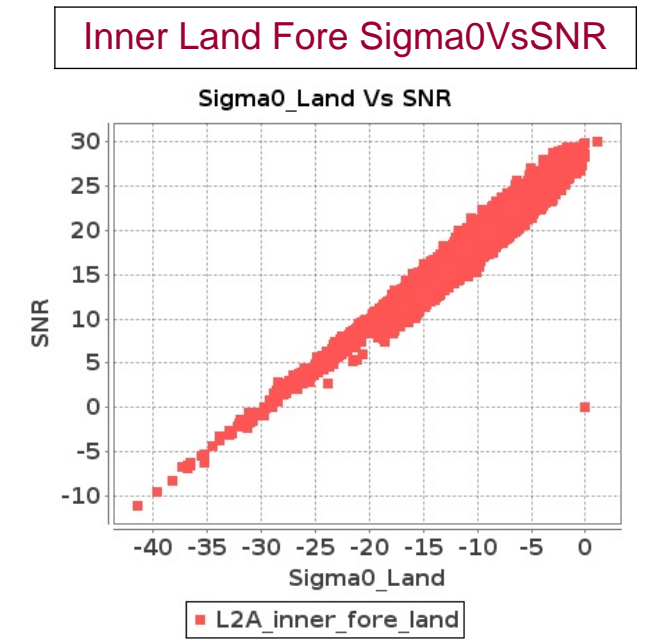
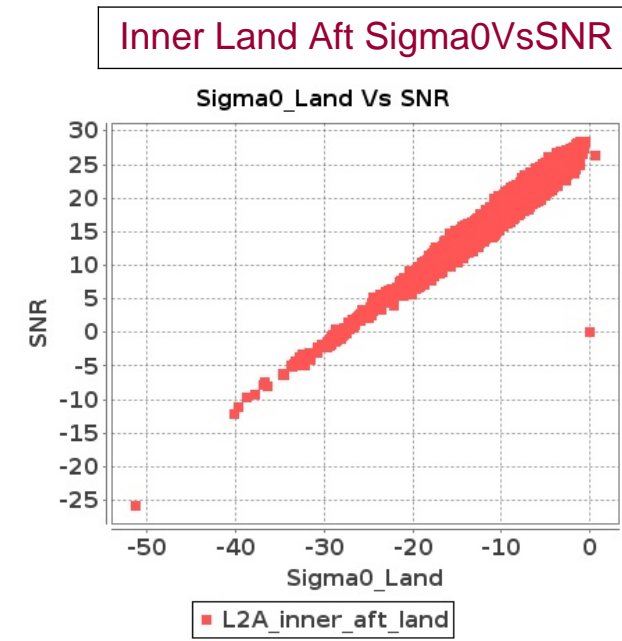
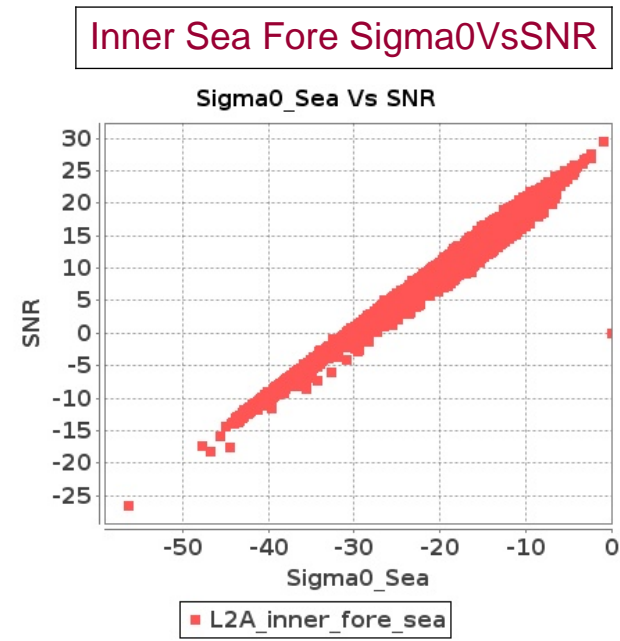
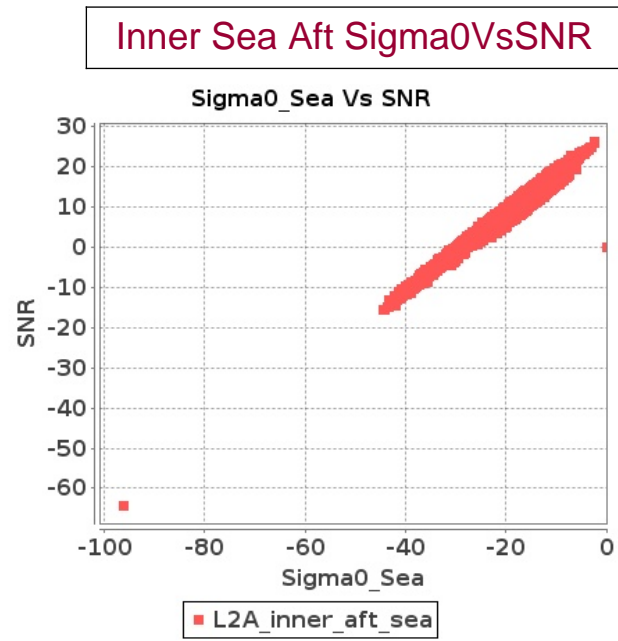


SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 01-MAY-2017 To 02-MAY-2017



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

Report between 01-MAY-2017 To 02-MAY-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 | 3144 | 3145 | SN | 1 | 0.0 | 49.691 | 5.235 | 0.0 | 53.633 | 4.505 | 0.0 | 44.368 | 3.378 | 0.0 | 43.926 | 3.491 | 0.0 | 50.03 | 4.82 | 0.0 | 51.883 | 4.351 | 0.0 | 43.506 | 3.35 | 0.0 | 45.406 | 3.376 |
| 2 | 3144 | 3145 | SN | 1 | 0.0 | 47.566 | 1.348 | 0.0 | 50.68 | 1.089 | 0.0 | 40.544 | 1.011 | 0.0 | 40.352 | 0.987 | 0.0 | 44.307 | 1.267 | 0.0 | 49.388 | 1.037 | 0.0 | 44.555 | 0.999 | 0.0 | 37.591 | 0.974 |
| 3 | 3144 | 3145 | NS | 1 | 0.0 | 57.09 | 5.162 | 0.0 | 53.798 | 5.043 | 0.0 | 42.289 | 2.92 | 0.0 | 50.488 | 3.303 | 0.0 | 54.629 | 5.056 | 0.0 | 54.501 | 4.905 | 0.0 | 43.542 | 2.908 | 0.0 | 54.319 | 3.159 |
| 4 | 3144 | 3145 | NS | 1 | 0.0 | 57.09 | 5.162 | 0.0 | 53.798 | 5.043 | 0.0 | 42.289 | 2.92 | 0.0 | 50.488 | 3.303 | 0.0 | 54.629 | 5.056 | 0.0 | 54.501 | 4.905 | 0.0 | 43.542 | 2.908 | 0.0 | 54.319 | 3.159 |
| 5 | 3144 | 3145 | SN | 1 | 0.0 | 47.566 | 1.391 | 0.0 | 50.68 | 1.124 | 0.0 | 40.544 | 1.042 | 0.0 | 40.352 | 1.016 | 0.0 | 44.307 | 1.309 | 0.0 | 49.388 | 1.071 | 0.0 | 44.555 | 1.031 | 0.0 | 37.591 | 1.003 |
| 6 | 3144 | 3145 | SN | 1 | 0.0 | 49.691 | 5.407 | 0.0 | 53.633 | 4.607 | 0.0 | 44.368 | 3.484 | 0.0 | 43.926 | 3.57 | 0.0 | 50.03 | 4.979 | 0.0 | 51.883 | 4.45 | 0.0 | 43.506 | 3.462 | 0.0 | 45.406 | 3.452 |
| 7 | 3144 | 3145 | SN | 1 | 0.0 | 47.566 | 1.348 | 0.0 | 50.68 | 1.101 | 0.0 | 40.544 | 1.011 | 0.0 | 40.352 | 0.998 | 0.0 | 44.307 | 1.267 | 0.0 | 49.388 | 1.048 | 0.0 | 44.555 | 0.999 | 0.0 | 37.591 | 0.985 |
| 8 | 3144 | 3145 | SN | 1 | 0.0 | 49.691 | 5.234 | 0.0 | 53.633 | 4.458 | 0.0 | 44.368 | 3.378 | 0.0 | 43.926 | 3.451 | 0.0 | 50.03 | 4.809 | 0.0 | 51.883 | 4.305 | 0.0 | 43.506 | 3.35 | 0.0 | 45.406 | 3.337 |
| 9 | 3144 | 3145 | NS | 1 | 0.0 | 55.29 | 15.367 | 0.0 | 56.52 | 14.802 | 0.0 | 52.05 | 10.718 | 0.0 | 47.589 | 11.224 | 0.0 | 55.962 | 15.316 | 0.0 | 57.913 | 14.73 | 0.0 | 54.381 | 10.753 | 0.0 | 46.927 | 11.246 |
| 10 | 3144 | 3145 | NS | 1 | 0.0 | 55.29 | 15.367 | 0.0 | 56.52 | 14.802 | 0.0 | 52.05 | 10.718 | 0.0 | 47.589 | 11.224 | 0.0 | 55.962 | 15.316 | 0.0 | 57.913 | 14.73 | 0.0 | 54.381 | 10.753 | 0.0 | 46.927 | 11.246 |
| 11 | 3145 | 3146 | SN | 1 | 0.0 | 47.431 | 2.284 | 0.0 | 44.342 | 2.083 | 0.0 | 38.279 | 1.782 | 0.0 | 38.502 | 1.787 | 0.0 | 47.331 | 2.18 | 0.0 | 43.955 | 1.918 | 0.0 | 38.411 | 1.746 | 0.0 | 36.555 | 1.701 |
| 12 | 3145 | 3146 | SN | 1 | 0.0 | 43.874 | 6.184 | 0.0 | 46.458 | 5.555 | 0.0 | 43.71 | 5.57 | 0.0 | 45.584 | 5.174 | 0.0 | 47.04 | 6.091 | 0.0 | 48.728 | 5.215 | 0.0 | 44.204 | 5.498 | 0.0 | 45.241 | 5.066 |
| 13 | 3145 | 3146 | NS | 1 | 0.0 | 43.636 | 2.45 | 0.0 | 48.102 | 2.046 | 0.0 | 44.583 | 1.804 | 0.0 | 49.451 | 1.687 | 0.0 | 45.577 | 2.362 | 0.0 | 48.456 | 2.033 | 0.0 | 45.814 | 1.712 | 0.0 | 45.607 | 1.65 |
| 14 | 3145 | 3146 | SN | 1 | 0.0 | 47.431 | 2.284 | 0.0 | 44.342 | 2.06 | 0.0 | 38.279 | 1.782 | 0.0 | 38.502 | 1.767 | 0.0 | 47.331 | 2.18 | 0.0 | 43.955 | 1.897 | 0.0 | 38.411 | 1.746 | 0.0 | 36.555 | 1.682 |
| 15 | 3145 | 3146 | NS | 1 | 0.0 | 52.863 | 6.417 | 0.0 | 56.161 | 5.565 | 0.0 | 45.802 | 5.496 | 0.0 | 48.93 | 5.114 | 0.0 | 54.574 | 6.306 | 0.0 | 57.214 | 5.474 | 0.0 | 43.489 | 5.546 | 0.0 | 51.457 | 5.078 |
| 16 | 3145 | 3146 | SN | 1 | 0.0 | 43.874 | 6.086 | 0.0 | 46.458 | 5.532 | 0.0 | 43.71 | 5.486 | 0.0 | 45.584 | 5.147 | 0.0 | 47.04 | 5.995 | 0.0 | 48.728 | 5.193 | 0.0 | 44.204 | 5.415 | 0.0 | 45.241 | 5.039 |
| 17 | 3145 | 3146 | NS | 1 | 0.0 | 53.424 | 6.28 | 0.0 | 53.337 | 5.645 | 0.0 | 42.72 | 5.505 | 0.0 | 47.035 | 5.049 | 0.0 | 53.046 | 6.209 | 0.0 | 52.454 | 5.381 | 0.0 | 42.735 | 5.576 | 0.0 | 47.668 | 5.063 |
| 18 | 3145 | 3146 | NS | 1 | 0.0 | 46.834 | 2.387 | 0.0 | 53.262 | 2.007 | 0.0 | 46.017 | 1.748 | 0.0 | 46.783 | 1.572 | 0.0 | 46.174 | 2.376 | 0.0 | 52.35 | 2.03 | 0.0 | 43.573 | 1.7 | 0.0 | 43.26 | 1.588 |
| 19 | 3145 | 3146 | SN | 1 | 0.0 | 47.431 | 2.321 | 0.0 | 44.342 | 2.092 | 0.0 | 38.279 | 1.811 | 0.0 | 38.502 | 1.797 | 0.0 | 47.331 | 2.216 | 0.0 | 43.955 | 1.929 | 0.0 | 38.411 | 1.775 | 0.0 | 36.555 | 1.711 |
| 20 | 3145 | 3146 | SN | 1 | 0.0 | 43.874 | 6.084 | 0.0 | 46.458 | 5.473 | 0.0 | 43.71 | 5.486 | 0.0 | 45.584 | 5.095 | 0.0 | 47.04 | 5.993 | 0.0 | 48.728 | 5.138 | 0.0 | 44.204 | 5.415 | 0.0 | 45.241 | 4.988 |
| 21 | 3146 | 3147 | SN | 1 | 0.0 | 39.19 | 1.872 | 0.0 | 40.805 | 1.544 | 0.0 | 45.205 | 1.667 | 0.0 | 39.08 | 1.841 | 0.0 | 38.394 | 1.617 | 0.0 | 40.529 | 1.263 | 0.0 | 42.782 | 1.513 | 0.0 | 35.424 | 1.635 |
| 22 | 3146 | 3147 | NS | 1 | 0.0 | 57.043 | 5.56 | 0.0 | 48.152 | 5.045 | 0.0 | 44.238 | 3.983 | 0.0 | 43.721 | 4.336 | 0.0 | 55.753 | 5.184 | 0.0 | 47.665 | 4.913 | 0.0 | 42.346 | 3.641 | 0.0 | 43.205 | 3.872 |
| 23 | 3146 | 3147 | SN | 1 | 0.0 | 46.772 | 5.246 | 0.0 | 44.541 | 3.869 | 0.0 | 41.139 | 4.599 | 0.0 | 38.93 | 4.909 | 0.0 | 47.008 | 4.375 | 0.0 | 43.788 | 3.643 | 0.0 | 39.88 | 4.223 | 0.0 | 37.115 | 4.377 |
| 24 | 3146 | 3147 | SN | 1 | 0.0 | 39.19 | 1.872 | 0.0 | 40.805 | 1.527 | 0.0 | 45.205 | 1.667 | 0.0 | 39.08 | 1.821 | 0.0 | 38.394 | 1.617 | 0.0 | 40.529 | 1.249 | 0.0 | 42.782 | 1.513 | 0.0 | 35.424 | 1.617 |
| 25 | 3146 | 3147 | SN | 1 | 0.0 | 46.772 | 5.245 | 0.0 | 44.541 | 3.828 | 0.0 | 41.139 | 4.599 | 0.0 | 38.93 | 4.853 | 0.0 | 47.008 | 4.374 | 0.0 | 43.788 | 3.605 | 0.0 | 39.88 | 4.223 | 0.0 | 37.115 | 4.326 |
| 26 | 3146 | 3147 | SN | 1 | 0.0 | 39.19 | 1.902 | 0.0 | 40.805 | 1.552 | 0.0 | 45.205 | 1.691 | 0.0 | 39.08 | 1.85 | 0.0 | 38.394 | 1.643 | 0.0 | 40.529 | 1.27 | 0.0 | 42.782 | 1.538 | 0.0 | 35.424 | 1.642 |
| 27 | 3146 | 3147 | NS | 1 | 0.0 | 54.772 | 1.876 | 0.0 | 47.841 | 1.734 | 0.0 | 38.395 | 1.357 | 0.0 | 38.992 | 1.39 | 0.0 | 53.868 | 1.662 | 0.0 | 52.033 | 1.6 | 0.0 | 38.052 | 1.203 | 0.0 | 37.62 | 1.227 |
| 28 | 3146 | 3147 | NS | 1 | 0.0 | 44.026 | 1.887 | 0.0 | 49.351 | 1.68 | 0.0 | 36.905 | 1.357 | 0.0 | 42.696 | 1.389 | 0.0 | 43.063 | 1.775 | 0.0 | 53.279 | 1.621 | 0.0 | 38.847 | 1.171 | 0.0 | 43.379 | 1.286 |
| 29 | 3146 | 3147 | SN | 1 | 0.0 | 46.772 | 5.33 | 0.0 | 44.541 | 3.885 | 0.0 | 41.139 | 4.676 | 0.0 | 38.93 | 4.921 | 0.0 | 47.008 | 4.445 | 0.0 | 43.788 | 3.659 | 0.0 | 39.88 | 4.293 | 0.0 | 37.115 | 4.386 |
| 30 | 3146 | 3147 | NS | 1 | 0.0 | 47.088 | 5.291 | 0.0 | 48.825 | 5.239 | 0.0 | 47.815 | 3.811 | 0.0 | 44.936 | 4.301 | 0.0 | 48.03 | 5.048 | 0.0 | 49.92 | 5.045 | 0.0 | 50.517 | 3.413 | 0.0 | 47.098 | 4.015 |
| 31 | 3147 | 3148 | SN | 1 | 0.0 | 47.261 | 2.518 | 0.0 | 43.68 | 2.35 | 0.0 | 38.007 | 1.973 | 0.0 | 37.419 | 2.014 | 0.0 | 43.536 | 2.26 | 0.0 | 44.388 | 2.098 | 0.0 | 35.458 | 1.839 | 0.0 | 36.607 | 1.785 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 32 | 3147 | 3148 | SN | 1 | 0.0 | 46.979 | 7.796 | 0.0 | 44.297 | 7.067 | 0.0 | 42.473 | 5.635 | 0.0 | 40.29 | 5.707 | 0.0 | 44.679 | 7.32 | 0.0 | 46.234 | 6.509 | 0.0 | 39.062 | 5.486 | 0.0 | 42.233 | 5.422 |
| 33 | 3147 | 3148 | NS | 1 | 0.0 | 47.907 | 2.36 | 0.0 | 51.715 | 2.055 | 0.0 | 45.765 | 1.572 | 0.0 | 40.59 | 1.444 | 0.0 | 47.572 | 2.186 | 0.0 | 48.076 | 1.808 | 0.0 | 49.962 | 1.435 | 0.0 | 40.283 | 1.262 |
| 34 | 3147 | 3148 | NS | 1 | 0.0 | 49.922 | 7.741 | 0.0 | 50.938 | 6.894 | 0.0 | 46.56 | 4.836 | 0.0 | 48.91 | 5.091 | 0.0 | 51.443 | 7.457 | 0.0 | 54.036 | 6.386 | 0.0 | 48.234 | 4.651 | 0.0 | 47.815 | 4.678 |
| 35 | 3147 | 3148 | SN | 1 | 0.0 | 44.526 | 7.778 | 0.0 | 44.201 | 7.122 | 0.0 | 39.557 | 5.614 | 0.0 | 39.572 | 5.773 | 0.0 | 42.966 | 7.393 | 0.0 | 46.137 | 6.589 | 0.0 | 42.092 | 5.656 | 0.0 | 40.628 | 5.341 |
| 36 | 3147 | 3148 | SN | 1 | 0.0 | 47.261 | 2.46 | 0.0 | 43.68 | 2.328 | 0.0 | 38.007 | 1.934 | 0.0 | 37.419 | 1.994 | 0.0 | 43.536 | 2.208 | 0.0 | 44.388 | 2.079 | 0.0 | 35.458 | 1.802 | 0.0 | 36.607 | 1.768 |
| 37 | 3147 | 3148 | NS | 1 | 0.0 | 47.801 | 8.068 | 0.0 | 58.82 | 6.675 | 0.0 | 46.343 | 5.161 | 0.0 | 45.635 | 4.745 | 0.0 | 49.768 | 7.896 | 0.0 | 57.088 | 6.176 | 0.0 | 45.652 | 4.784 | 0.0 | 45.616 | 4.467 |
| 38 | 3147 | 3148 | SN | 1 | 0.0 | 44.526 | 7.959 | 0.0 | 44.201 | 7.199 | 0.0 | 42.473 | 5.749 | 0.0 | 39.572 | 5.827 | 0.0 | 42.966 | 7.565 | 0.0 | 46.137 | 6.669 | 0.0 | 45.008 | 5.799 | 0.0 | 40.628 | 5.404 |
| 39 | 3147 | 3148 | NS | 1 | 0.0 | 49.116 | 2.419 | 0.0 | 44.708 | 2.056 | 0.0 | 40.451 | 1.48 | 0.0 | 37.833 | 1.512 | 0.0 | 46.687 | 2.282 | 0.0 | 45.145 | 1.893 | 0.0 | 37.771 | 1.395 | 0.0 | 38.337 | 1.382 |
| 40 | 3147 | 3148 | SN | 1 | 0.0 | 49.086 | 2.465 | 0.0 | 43.779 | 2.309 | 0.0 | 36.905 | 1.929 | 0.0 | 37.114 | 1.935 | 0.0 | 46.961 | 2.201 | 0.0 | 44.487 | 2.105 | 0.0 | 37.377 | 1.793 | 0.0 | 36.17 | 1.766 |
| 41 | 3148 | 3149 | SN | 1 | 0.0 | 45.135 | 9.043 | 0.0 | 48.658 | 6.786 | 0.0 | 40.383 | 7.025 | 0.0 | 40.442 | 6.538 | 0.0 | 46.395 | 8.841 | 0.0 | 49.265 | 6.416 | 0.0 | 40.355 | 6.777 | 0.0 | 37.159 | 6.207 |
| 42 | 3148 | 3149 | SN | 1 | 0.0 | 42.858 | 3.217 | 0.0 | 45.853 | 2.273 | 0.0 | 39.45 | 2.391 | 0.0 | 38.938 | 2.181 | 0.0 | 40.56 | 2.919 | 0.0 | 44.003 | 2.131 | 0.0 | 38.523 | 2.299 | 0.0 | 37.3 | 2.022 |
| 43 | 3148 | 3149 | SN | 1 | 0.0 | 45.135 | 9.04 | 0.0 | 48.658 | 6.712 | 0.0 | 40.383 | 7.025 | 0.0 | 40.442 | 6.477 | 0.0 | 46.395 | 8.838 | 0.0 | 49.265 | 6.346 | 0.0 | 40.355 | 6.777 | 0.0 | 37.159 | 6.142 |
| 44 | 3148 | 3149 | SN | 1 | 0.0 | 45.135 | 9.345 | 0.0 | 48.658 | 6.938 | 0.0 | 40.383 | 7.276 | 0.0 | 40.442 | 6.685 | 0.0 | 46.395 | 9.136 | 0.0 | 49.265 | 6.56 | 0.0 | 40.355 | 7.019 | 0.0 | 37.159 | 6.347 |
| 45 | 3148 | 3149 | SN | 1 | 0.0 | 42.858 | 3.328 | 0.0 | 45.853 | 2.353 | 0.0 | 39.45 | 2.471 | 0.0 | 38.938 | 2.258 | 0.0 | 40.56 | 3.023 | 0.0 | 44.003 | 2.206 | 0.0 | 38.523 | 2.377 | 0.0 | 37.3 | 2.092 |
| 46 | 3148 | 3149 | NS | 1 | 0.0 | 49.909 | 4.567 | 0.0 | 53.061 | 4.293 | 0.0 | 45.734 | 3.229 | 0.0 | 44.62 | 3.567 | 0.0 | 51.153 | 4.201 | 0.0 | 53.506 | 4.039 | 0.0 | 46.962 | 2.901 | 0.0 | 43.348 | 3.146 |
| 47 | 3148 | 3149 | NS | 1 | 0.0 | 48.574 | 4.375 | 0.0 | 51.125 | 4.201 | 0.0 | 44.051 | 3.379 | 0.0 | 45.703 | 3.58 | 0.0 | 47.788 | 4.274 | 0.0 | 51.436 | 3.835 | 0.0 | 45.398 | 3.087 | 0.0 | 44.78 | 3.331 |
| 48 | 3148 | 3149 | NS | 1 | 0.0 | 46.399 | 1.308 | 0.0 | 50.089 | 1.302 | 0.0 | 41.573 | 0.905 | 0.0 | 39.28 | 0.974 | 0.0 | 44.875 | 1.227 | 0.0 | 47.992 | 1.116 | 0.0 | 39.5 | 0.774 | 0.0 | 37.981 | 0.889 |
| 49 | 3148 | 3149 | SN | 1 | 0.0 | 42.858 | 3.217 | 0.0 | 45.853 | 2.294 | 0.0 | 39.45 | 2.391 | 0.0 | 38.938 | 2.206 | 0.0 | 40.56 | 2.919 | 0.0 | 44.003 | 2.154 | 0.0 | 38.523 | 2.299 | 0.0 | 37.3 | 2.045 |
| 50 | 3148 | 3149 | NS | 1 | 0.0 | 44.575 | 1.303 | 0.0 | 51.889 | 1.248 | 0.0 | 48.013 | 1.013 | 0.0 | 39.462 | 1.02 | 0.0 | 48.218 | 1.134 | 0.0 | 49.069 | 1.099 | 0.0 | 45.864 | 0.893 | 0.0 | 42.608 | 0.88 |
| 51 | 3149 | 3150 | NS | 1 | 0.0 | 51.738 | 7.236 | 0.0 | 51.551 | 5.3 | 0.0 | 45.848 | 5.314 | 0.0 | 43.262 | 4.793 | 0.0 | 50.004 | 6.435 | 0.0 | 49.928 | 4.863 | 0.0 | 45.974 | 4.781 | 0.0 | 46.872 | 4.279 |
| 52 | 3149 | 3150 | SN | 1 | 0.0 | 47.439 | 2.444 | 0.0 | 46.207 | 2.035 | 0.0 | 44.665 | 2.031 | 0.0 | 42.812 | 1.946 | 0.0 | 47.26 | 2.277 | 0.0 | 44.746 | 1.926 | 0.0 | 41.557 | 1.934 | 0.0 | 40.812 | 1.8 |
| 53 | 3149 | 3150 | NS | 1 | 0.0 | 51.738 | 7.236 | 0.0 | 51.551 | 5.3 | 0.0 | 45.848 | 5.314 | 0.0 | 43.262 | 4.793 | 0.0 | 50.004 | 6.435 | 0.0 | 49.928 | 4.863 | 0.0 | 45.974 | 4.781 | 0.0 | 46.872 | 4.279 |
| 54 | 3149 | 3150 | SN | 1 | 0.0 | 47.439 | 2.444 | 0.0 | 46.207 | 2.013 | 0.0 | 44.665 | 2.031 | 0.0 | 42.812 | 1.926 | 0.0 | 47.26 | 2.277 | 0.0 | 44.746 | 1.904 | 0.0 | 41.557 | 1.934 | 0.0 | 40.812 | 1.78 |
| 55 | 3149 | 3150 | SN | 1 | 0.0 | 50.081 | 7.301 | 0.0 | 43.574 | 5.944 | 0.0 | 45.106 | 5.975 | 0.0 | 47.337 | 5.796 | 0.0 | 47.781 | 6.754 | 0.0 | 43.71 | 5.564 | 0.0 | 41.888 | 5.918 | 0.0 | 47.542 | 5.465 |
| 56 | 3149 | 3150 | NS | 1 | 0.0 | 44.322 | 2.235 | 0.0 | 47.733 | 1.829 | 0.0 | 46.531 | 1.601 | 0.0 | 40.208 | 1.497 | 0.0 | 45.492 | 1.939 | 0.0 | 46.878 | 1.637 | 0.0 | 42.534 | 1.374 | 0.0 | 36.876 | 1.252 |
| 57 | 3149 | 3150 | NS | 1 | 0.0 | 44.322 | 2.235 | 0.0 | 47.733 | 1.829 | 0.0 | 46.531 | 1.601 | 0.0 | 40.208 | 1.497 | 0.0 | 45.492 | 1.939 | 0.0 | 46.878 | 1.637 | 0.0 | 42.534 | 1.374 | 0.0 | 36.876 | 1.252 |
| 58 | 3149 | 3150 | SN | 1 | 0.0 | 47.439 | 2.568 | 0.0 | 46.207 | 2.117 | 0.0 | 44.665 | 2.128 | 0.0 | 42.812 | 2.023 | 0.0 | 47.26 | 2.392 | 0.0 | 44.746 | 2.003 | 0.0 | 41.557 | 2.031 | 0.0 | 40.812 | 1.87 |
| 59 | 3149 | 3150 | SN | 1 | 0.0 | 50.081 | 7.682 | 0.0 | 43.574 | 6.164 | 0.0 | 45.106 | 6.27 | 0.0 | 47.337 | 6.03 | 0.0 | 47.781 | 7.106 | 0.0 | 43.71 | 5.78 | 0.0 | 41.888 | 6.218 | 0.0 | 47.542 | 5.679 |
| 60 | 3149 | 3150 | SN | 1 | 0.0 | 50.081 | 7.298 | 0.0 | 43.574 | 5.879 | 0.0 | 45.106 | 5.975 | 0.0 | 47.337 | 5.737 | 0.0 | 47.781 | 6.752 | 0.0 | 43.71 | 5.504 | 0.0 | 41.888 | 5.918 | 0.0 | 47.542 | 5.402 |
| 61 | 3150 | 3151 | SN | 1 | 0.0 | 43.621 | 2.971 | 0.0 | 48.614 | 2.479 | 0.0 | 38.888 | 2.031 | 0.0 | 46.339 | 1.86 | 0.0 | 46.221 | 2.707 | 0.0 | 46.561 | 2.205 | 0.0 | 38.112 | 1.937 | 0.0 | 46.187 | 1.599 |
| 62 | 3150 | 3151 | NS | 1 | 0.0 | 49.892 | 2.264 | 0.0 | 47.372 | 1.908 | 0.0 | 43.482 | 1.425 | 0.0 | 38.424 | 1.415 | 0.0 | 49.3 | 1.918 | 0.0 | 44.746 | 1.582 | 0.0 | 45.739 | 1.155 | 0.0 | 40.549 | 1.188 |
| 63 | 3150 | 3151 | SN | 1 | 0.0 | 47.515 | 9.951 | 0.0 | 48.005 | 8.403 | 0.0 | 43.26 | 6.69 | 0.0 | 48.399 | 6.548 | 0.0 | 48.904 | 9.254 | 0.0 | 48.721 | 7.934 | 0.0 | 43.226 | 6.43 | 0.0 | 48.411 | 5.912 |
| 64 | 3150 | 3151 | SN | 1 | 0.0 | 47.515 | 9.329 | 0.0 | 48.005 | 7.992 | 0.0 | 43.26 | 6.278 | 0.0 | 48.399 | 6.178 | 0.0 | 48.904 | 8.641 | 0.0 | 48.721 | 7.485 | 0.0 | 43.226 | 6.008 | 0.0 | 48.411 | 5.559 |
| 65 | 3150 | 3151 | NS | 1 | 0.0 | 39.421 | 2.308 | 0.0 | 46.719 | 1.845 | 0.0 | 41.212 | 1.428 | 0.0 | 37.656 | 1.436 | 0.0 | 40.61 | 2.014 | 0.0 | 50.959 | 1.615 | 0.0 | 41.793 | 1.247 | 0.0 | 36.934 | 1.226 |
| 66 | 3150 | 3151 | NS | 1 | 0.0 | 57.776 | 6.698 | 0.0 | 43.226 | 6.084 | 0.0 | 45.431 | 4.481 | 0.0 | 42.224 | 4.365 | 0.0 | 54.658 | 5.927 | 0.0 | 46.784 | 5.27 | 0.0 | 43.544 | 4.005 | 0.0 | 39.846 | 3.944 |
| 67 | 3150 | 3151 | SN | 1 | 0.0 | 43.621 | 2.971 | 0.0 | 48.614 | 2.452 | 0.0 | 38.888 | 2.034 | 0.0 | 46.339 | 1.838 | 0.0 | 46.221 | 2.707 | 0.0 | 46.561 | 2.181 | 0.0 | 38.112 | 1.94 | 0.0 | 46.187 | 1.58 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 68 | 3150 | 3151 | SN | 1 | 0.0 | 47.515 | 9.332 | 0.0 | 48.005 | 8.058 | 0.0 | 43.26 | 6.278 | 0.0 | 48.399 | 6.243 | 0.0 | 48.904 | 8.643 | 0.0 | 48.721 | 7.565 | 0.0 | 43.226 | 6.008 | 0.0 | 48.411 | 5.616 |
| 69 | 3150 | 3151 | SN | 1 | 0.0 | 43.621 | 3.179 | 0.0 | 48.614 | 2.616 | 0.0 | 38.888 | 2.167 | 0.0 | 46.339 | 1.959 | 0.0 | 46.221 | 2.897 | 0.0 | 46.561 | 2.327 | 0.0 | 38.112 | 2.076 | 0.0 | 46.187 | 1.686 |
| 70 | 3150 | 3151 | NS | 1 | 0.0 | 52.165 | 6.494 | 0.0 | 48.604 | 6.105 | 0.0 | 45.934 | 4.729 | 0.0 | 45.845 | 4.194 | 0.0 | 50.972 | 5.906 | 0.0 | 44.955 | 5.179 | 0.0 | 44.094 | 4.146 | 0.0 | 44.675 | 3.809 |
| 71 | 3151 | 3152 | SN | 1 | 0.0 | 48.771 | 7.699 | 0.0 | 49.984 | 7.496 | 0.0 | 52.225 | 6.616 | 0.0 | 50.412 | 6.445 | 0.0 | 49.732 | 7.638 | 0.0 | 49.787 | 7.045 | 0.0 | 50.867 | 6.623 | 0.0 | 48.344 | 6.366 |
| 72 | 3151 | 3152 | NS | 1 | 0.0 | 48.338 | 4.749 | 0.0 | 53.387 | 4.996 | 0.0 | 47.134 | 3.798 | 0.0 | 46.777 | 3.467 | 0.0 | 46.495 | 4.648 | 0.0 | 53.622 | 4.904 | 0.0 | 45.275 | 3.591 | 0.0 | 50.203 | 3.21 |
| 73 | 3151 | 3152 | NS | 1 | 0.0 | 56.851 | 4.657 | 0.0 | 48.684 | 4.986 | 0.0 | 45.853 | 3.72 | 0.0 | 46.8 | 3.538 | 0.0 | 58.004 | 4.606 | 0.0 | 49.566 | 4.853 | 0.0 | 45.273 | 3.591 | 0.0 | 50.229 | 3.267 |
| 74 | 3151 | 3152 | SN | 1 | 0.0 | 48.771 | 8.421 | 0.0 | 49.984 | 8.101 | 0.0 | 52.225 | 7.261 | 0.0 | 50.412 | 7.004 | 0.0 | 49.732 | 8.354 | 0.0 | 49.787 | 7.64 | 0.0 | 50.867 | 7.284 | 0.0 | 48.344 | 6.941 |
| 75 | 3151 | 3152 | SN | 1 | 0.0 | 48.771 | 7.756 | 0.0 | 49.832 | 7.374 | 0.0 | 52.555 | 6.673 | 0.0 | 50.415 | 6.365 | 0.0 | 49.697 | 7.706 | 0.0 | 49.818 | 6.927 | 0.0 | 51.195 | 6.63 | 0.0 | 48.346 | 6.294 |
| 76 | 3151 | 3152 | SN | 1 | 0.0 | 45.604 | 3.18 | 0.0 | 45.671 | 3.02 | 0.0 | 47.808 | 2.259 | 0.0 | 43.768 | 2.259 | 0.0 | 43.537 | 3.152 | 0.0 | 45.131 | 2.805 | 0.0 | 43.341 | 2.181 | 0.0 | 42.231 | 2.104 |
| 77 | 3151 | 3152 | NS | 1 | 0.0 | 44.343 | 1.516 | 0.0 | 38.248 | 1.551 | 0.0 | 43.899 | 1.217 | 0.0 | 42.983 | 1.219 | 0.0 | 42.521 | 1.419 | 0.0 | 36.327 | 1.42 | 0.0 | 41.785 | 1.131 | 0.0 | 44.17 | 1.139 |
| 78 | 3151 | 3152 | NS | 1 | 0.0 | 44.942 | 1.511 | 0.0 | 40.115 | 1.542 | 0.0 | 42.858 | 1.21 | 0.0 | 43.381 | 1.215 | 0.0 | 43.12 | 1.423 | 0.0 | 42.029 | 1.416 | 0.0 | 41.814 | 1.125 | 0.0 | 44.566 | 1.126 |
| 79 | 3151 | 3152 | SN | 1 | 0.0 | 45.604 | 2.886 | 0.0 | 45.671 | 2.779 | 0.0 | 47.808 | 2.058 | 0.0 | 43.768 | 2.077 | 0.0 | 43.537 | 2.857 | 0.0 | 45.131 | 2.566 | 0.0 | 43.341 | 1.975 | 0.0 | 42.231 | 1.934 |
| 80 | 3151 | 3152 | SN | 1 | 0.0 | 45.432 | 2.886 | 0.0 | 45.698 | 2.752 | 0.0 | 47.682 | 2.034 | 0.0 | 46.056 | 2.031 | 0.0 | 43.366 | 2.846 | 0.0 | 45.06 | 2.558 | 0.0 | 43.214 | 1.975 | 0.0 | 42.191 | 1.909 |
| 81 | 3152 | 3153 | NS | 1 | 0.0 | 48.446 | 2.991 | 0.0 | 44.065 | 2.474 | 0.0 | 42.114 | 2.03 | 0.0 | 45.893 | 2.084 | 0.0 | 46.251 | 2.93 | 0.0 | 42.638 | 2.447 | 0.0 | 43.016 | 1.984 | 0.0 | 43.671 | 1.915 |
| 82 | 3152 | 3153 | NS | 1 | 0.0 | 48.446 | 2.991 | 0.0 | 44.065 | 2.474 | 0.0 | 42.114 | 2.03 | 0.0 | 45.893 | 2.084 | 0.0 | 46.251 | 2.93 | 0.0 | 42.638 | 2.447 | 0.0 | 43.016 | 1.984 | 0.0 | 43.671 | 1.915 |
| 83 | 3152 | 3153 | NS | 1 | 0.0 | 48.65 | 8.727 | 0.0 | 53.229 | 8.171 | 0.0 | 44.752 | 6.415 | 0.0 | 49.725 | 6.077 | 0.0 | 49.865 | 8.716 | 0.0 | 55.936 | 7.845 | 0.0 | 43.236 | 6.38 | 0.0 | 49.035 | 5.963 |
| 84 | 3152 | 3153 | NS | 1 | 0.0 | 48.65 | 8.727 | 0.0 | 53.229 | 8.171 | 0.0 | 44.752 | 6.415 | 0.0 | 49.725 | 6.077 | 0.0 | 49.865 | 8.716 | 0.0 | 55.936 | 7.845 | 0.0 | 43.236 | 6.38 | 0.0 | 49.035 | 5.963 |
| 85 | 3152 | 3153 | SN | 1 | 0.0 | 42.128 | 2.953 | 0.0 | 46.56 | 2.668 | 0.0 | 40.64 | 2.029 | 0.0 | 43.604 | 2.21 | 0.0 | 42.029 | 3.179 | 0.0 | 46.64 | 2.939 | 0.0 | 40.16 | 2.228 | 0.0 | 45.199 | 2.211 |
| 86 | 3152 | 3153 | SN | 1 | 0.0 | 49.963 | 8.61 | 0.0 | 50.859 | 7.919 | 0.0 | 46.348 | 6.136 | 0.0 | 48.161 | 6.571 | 0.0 | 47.713 | 9.248 | 0.0 | 53.132 | 8.162 | 0.0 | 43.932 | 6.882 | 0.0 | 45.898 | 6.984 |
| 87 | 3153 | 3154 | NS | 1 | 0.0 | 50.938 | 7.589 | 0.0 | 47.833 | 6.859 | 0.0 | 40.092 | 5.703 | 0.0 | 52.445 | 5.445 | 0.0 | 48.187 | 6.96 | 0.0 | 48.993 | 6.197 | 0.0 | 39.834 | 5.291 | 0.0 | 48.428 | 5.002 |
| 88 | 3153 | 3154 | NS | 1 | 0.0 | 48.867 | 2.491 | 0.0 | 45.152 | 2.072 | 0.0 | 40.788 | 1.969 | 0.0 | 39.5 | 1.907 | 0.0 | 47.131 | 2.222 | 0.0 | 45.089 | 1.844 | 0.0 | 38.775 | 1.693 | 0.0 | 37.767 | 1.66 |
| 89 | 3158 | 3159 | SN | 1 | 0.0 | 47.83 | 1.502 | 0.0 | 48.854 | 1.298 | 0.0 | 41.907 | 1.147 | 0.0 | 37.526 | 0.977 | 0.0 | 46.851 | 1.334 | 0.0 | 46.352 | 1.137 | 0.0 | 41.429 | 1.111 | 0.0 | 38.649 | 0.945 |
| 90 | 3158 | 3159 | SN | 1 | 0.0 | 48.294 | 4.461 | 0.0 | 54.648 | 3.847 | 0.0 | 44.062 | 3.589 | 0.0 | 43.14 | 3.017 | 0.0 | 48.479 | 4.224 | 0.0 | 51.302 | 3.696 | 0.0 | 44.15 | 3.302 | 0.0 | 43.822 | 3.055 |
| 91 | 3158 | 3159 | SN | 1 | 0.0 | 48.294 | 4.243 | 0.0 | 54.648 | 3.654 | 0.0 | 44.062 | 3.471 | 0.0 | 43.14 | 2.887 | 0.0 | 48.479 | 3.98 | 0.0 | 51.302 | 3.51 | 0.0 | 44.15 | 3.144 | 0.0 | 43.822 | 2.901 |
| 92 | 3158 | 3159 | SN | 1 | 0.0 | 47.83 | 1.421 | 0.0 | 48.854 | 1.238 | 0.0 | 41.907 | 1.098 | 0.0 | 39.292 | 0.931 | 0.0 | 46.851 | 1.256 | 0.0 | 46.352 | 1.085 | 0.0 | 41.429 | 1.056 | 0.0 | 38.649 | 0.899 |
| 93 | 3159 | 3160 | SN | 1 | 0.0 | 53.396 | 2.239 | 0.0 | 50.316 | 2.164 | 0.0 | 49.108 | 1.644 | 0.0 | 40.146 | 1.645 | 0.0 | 51.826 | 2.205 | 0.0 | 49.868 | 2.111 | 0.0 | 44.935 | 1.548 | 0.0 | 39.261 | 1.525 |
| 94 | 3159 | 3160 | SN | 1 | 0.0 | 54.765 | 7.466 | 0.0 | 47.477 | 7.348 | 0.0 | 43.065 | 5.366 | 0.0 | 52.665 | 4.909 | 0.0 | 53.921 | 7.516 | 0.0 | 50.897 | 7.03 | 0.0 | 42.896 | 5.21 | 0.0 | 49.974 | 4.751 |
| 95 | 3159 | 3160 | SN | 1 | 0.0 | 54.765 | 7.463 | 0.0 | 47.477 | 7.278 | 0.0 | 43.065 | 5.366 | 0.0 | 52.665 | 4.867 | 0.0 | 53.921 | 7.514 | 0.0 | 50.897 | 6.953 | 0.0 | 42.896 | 5.21 | 0.0 | 49.974 | 4.696 |
| 96 | 3159 | 3160 | SN | 1 | 0.0 | 53.396 | 2.192 | 0.0 | 50.316 | 2.147 | 0.0 | 49.108 | 1.609 | 0.0 | 40.146 | 1.632 | 0.0 | 51.826 | 2.158 | 0.0 | 49.868 | 2.095 | 0.0 | 44.935 | 1.515 | 0.0 | 39.261 | 1.513 |
| 97 | 3159 | 3160 | SN | 1 | 0.0 | 54.765 | 7.622 | 0.0 | 47.477 | 7.429 | 0.0 | 43.065 | 5.483 | 0.0 | 52.665 | 4.969 | 0.0 | 53.921 | 7.674 | 0.0 | 50.897 | 7.097 | 0.0 | 42.896 | 5.324 | 0.0 | 49.974 | 4.794 |
| 98 | 3159 | 3160 | NS | 1 | 0.0 | 62.36 | 8.903 | 0.0 | 49.818 | 8.39 | 0.0 | 48.567 | 6.948 | 0.0 | 46.292 | 6.618 | 0.0 | 59.013 | 8.558 | 0.0 | 49.626 | 8.156 | 0.0 | 45.511 | 6.784 | 0.0 | 45.851 | 6.411 |
| 99 | 3159 | 3160 | SN | 1 | 0.0 | 53.396 | 2.192 | 0.0 | 50.316 | 2.123 | 0.0 | 49.108 | 1.609 | 0.0 | 40.146 | 1.613 | 0.0 | 51.826 | 2.158 | 0.0 | 49.868 | 2.071 | 0.0 | 44.935 | 1.515 | 0.0 | 39.261 | 1.496 |
| 100 | 3159 | 3160 | NS | 1 | 0.0 | 49.897 | 2.996 | 0.0 | 49.95 | 2.674 | 0.0 | 54.057 | 2.008 | 0.0 | 44.937 | 1.95 | 0.0 | 50.658 | 2.777 | 0.0 | 49.097 | 2.489 | 0.0 | 54.274 | 1.831 | 0.0 | 43.463 | 1.804 |
| 101 | 3160 | 3161 | SN | 1 | 0.0 | 48.014 | 7.77 | 0.0 | 49.844 | 6.374 | 0.0 | 42.847 | 5.599 | 0.0 | 45.366 | 5.882 | 0.0 | 48.152 | 7.071 | 0.0 | 51.045 | 6.066 | 0.0 | 41.126 | 5.426 | 0.0 | 44.972 | 5.456 |
| 102 | 3160 | 3161 | NS | 1 | 0.0 | 45.732 | 7.288 | 0.0 | 51.405 | 6.898 | 0.0 | 47.214 | 5.09 | 0.0 | 42.754 | 5.199 | 0.0 | 47.479 | 7.693 | 0.0 | 49.454 | 7.396 | 0.0 | 45.953 | 5.083 | 0.0 | 45.06 | 5.264 |
| 103 | 3160 | 3161 | SN | 1 | 0.0 | 48.014 | 7.77 | 0.0 | 49.844 | 6.374 | 0.0 | 42.847 | 5.599 | 0.0 | 45.366 | 5.882 | 0.0 | 48.152 | 7.071 | 0.0 | 51.045 | 6.066 | 0.0 | 41.126 | 5.426 | 0.0 | 44.972 | 5.456 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 104 | 3160 | 3161 | NS | 1 | 0.0 | 45.072 | 2.273 | 0.0 | 46.407 | 2.087 | 0.0 | 40.408 | 1.607 | 0.0 | 39.224 | 1.632 | 0.0 | 43.845 | 2.382 | 0.0 | 47.941 | 2.141 | 0.0 | 40.22 | 1.672 | 0.0 | 35.942 | 1.691 |
| 105 | 3160 | 3161 | SN | 1 | 0.0 | 48.014 | 7.657 | 0.0 | 49.844 | 6.353 | 0.0 | 42.847 | 5.515 | 0.0 | 45.366 | 5.866 | 0.0 | 48.152 | 6.968 | 0.0 | 51.045 | 6.045 | 0.0 | 41.126 | 5.344 | 0.0 | 44.972 | 5.441 |
| 106 | 3160 | 3161 | SN | 1 | 0.0 | 42.163 | 2.665 | 0.0 | 49.6 | 2.407 | 0.0 | 41.419 | 1.952 | 0.0 | 47.098 | 1.983 | 0.0 | 41.453 | 2.502 | 0.0 | 50.26 | 2.201 | 0.0 | 43.956 | 1.819 | 0.0 | 43.44 | 1.679 |
| 107 | 3160 | 3161 | SN | 1 | 0.0 | 42.163 | 2.665 | 0.0 | 49.6 | 2.407 | 0.0 | 41.419 | 1.952 | 0.0 | 47.098 | 1.983 | 0.0 | 41.453 | 2.502 | 0.0 | 50.26 | 2.201 | 0.0 | 43.956 | 1.819 | 0.0 | 43.44 | 1.679 |
| 108 | 3160 | 3161 | SN | 1 | 0.0 | 42.163 | 2.625 | 0.0 | 49.6 | 2.401 | 0.0 | 41.419 | 1.922 | 0.0 | 47.098 | 1.982 | 0.0 | 41.453 | 2.465 | 0.0 | 50.26 | 2.195 | 0.0 | 43.956 | 1.791 | 0.0 | 43.44 | 1.678 |
| 109 | 3160 | 3161 | NS | 1 | 0.0 | 45.732 | 7.288 | 0.0 | 51.405 | 6.898 | 0.0 | 47.214 | 5.09 | 0.0 | 42.754 | 5.199 | 0.0 | 47.479 | 7.693 | 0.0 | 49.454 | 7.396 | 0.0 | 45.953 | 5.083 | 0.0 | 45.06 | 5.264 |
| 110 | 3161 | 3162 | NS | 1 | 0.0 | 50.44 | 6.984 | 0.0 | 53.639 | 6.328 | 0.0 | 39.953 | 5.307 | 0.0 | 46.042 | 5.185 | 0.0 | 50.978 | 7.502 | 0.0 | 53.983 | 6.44 | 0.0 | 37.709 | 5.42 | 0.0 | 43.353 | 5.021 |
| 111 | 3161 | 3162 | SN | 1 | 0.0 | 46.181 | 6.278 | 0.0 | 47.997 | 5.739 | 0.0 | 36.652 | 4.733 | 0.0 | 46.147 | 4.76 | 0.0 | 44.162 | 5.772 | 0.0 | 48.268 | 5.225 | 0.0 | 38.447 | 4.499 | 0.0 | 43.34 | 4.486 |
| 112 | 3161 | 3162 | NS | 1 | 0.0 | 49.376 | 2.424 | 0.0 | 42.396 | 2.125 | 0.0 | 44.49 | 1.912 | 0.0 | 39.851 | 1.815 | 0.0 | 45.988 | 2.402 | 0.0 | 41.456 | 2.085 | 0.0 | 43.348 | 1.869 | 0.0 | 38.704 | 1.657 |
| 113 | 3161 | 3162 | SN | 1 | 0.0 | 46.181 | 6.396 | 0.0 | 47.997 | 5.777 | 0.0 | 36.652 | 4.805 | 0.0 | 46.147 | 4.791 | 0.0 | 44.162 | 5.881 | 0.0 | 48.268 | 5.26 | 0.0 | 38.447 | 4.573 | 0.0 | 43.34 | 4.515 |
| 114 | 3161 | 3162 | SN | 1 | 0.0 | 48.268 | 2.058 | 0.0 | 40.844 | 1.821 | 0.0 | 38.491 | 1.783 | 0.0 | 38.214 | 1.716 | 0.0 | 43.788 | 1.774 | 0.0 | 37.96 | 1.647 | 0.0 | 36.999 | 1.555 | 0.0 | 36.211 | 1.479 |
| 115 | 3161 | 3162 | SN | 1 | 0.0 | 48.268 | 2.058 | 0.0 | 40.844 | 1.801 | 0.0 | 38.491 | 1.783 | 0.0 | 38.214 | 1.697 | 0.0 | 43.788 | 1.774 | 0.0 | 37.96 | 1.629 | 0.0 | 36.999 | 1.555 | 0.0 | 36.211 | 1.463 |
| 116 | 3161 | 3162 | SN | 1 | 0.0 | 46.181 | 6.277 | 0.0 | 47.997 | 5.677 | 0.0 | 36.652 | 4.733 | 0.0 | 46.147 | 4.705 | 0.0 | 44.162 | 5.77 | 0.0 | 48.268 | 5.169 | 0.0 | 38.447 | 4.499 | 0.0 | 43.34 | 4.434 |
| 117 | 3161 | 3162 | NS | 1 | 0.0 | 49.376 | 2.424 | 0.0 | 42.396 | 2.125 | 0.0 | 44.49 | 1.912 | 0.0 | 39.851 | 1.815 | 0.0 | 45.988 | 2.402 | 0.0 | 41.456 | 2.085 | 0.0 | 43.348 | 1.869 | 0.0 | 38.704 | 1.657 |
| 118 | 3161 | 3162 | SN | 1 | 0.0 | 48.268 | 2.098 | 0.0 | 40.844 | 1.833 | 0.0 | 38.491 | 1.815 | 0.0 | 38.214 | 1.726 | 0.0 | 43.788 | 1.809 | 0.0 | 37.96 | 1.658 | 0.0 | 36.999 | 1.585 | 0.0 | 36.211 | 1.489 |
| 119 | 3161 | 3162 | NS | 1 | 0.0 | 50.44 | 6.984 | 0.0 | 53.639 | 6.328 | 0.0 | 39.953 | 5.307 | 0.0 | 46.042 | 5.185 | 0.0 | 50.978 | 7.502 | 0.0 | 53.983 | 6.44 | 0.0 | 37.709 | 5.42 | 0.0 | 43.353 | 5.021 |
| 120 | 3162 | 3163 | NS | 1 | 0.0 | 44.996 | 4.688 | 0.0 | 46.936 | 4.151 | 0.0 | 41.125 | 3.492 | 0.0 | 54.798 | 3.539 | 0.0 | 47.174 | 4.16 | 0.0 | 49.677 | 3.744 | 0.0 | 39.381 | 3.293 | 0.0 | 55.185 | 3.089 |
| 121 | 3162 | 3163 | NS | 1 | 0.0 | 46.524 | 4.639 | 0.0 | 46.803 | 4.253 | 0.0 | 45.121 | 3.372 | 0.0 | 44.349 | 3.452 | 0.0 | 46.773 | 4.019 | 0.0 | 48.432 | 3.571 | 0.0 | 48.514 | 2.916 | 0.0 | 44.963 | 2.988 |
| 122 | 3162 | 3163 | SN | 1 | 0.0 | 42.852 | 6.215 | 0.0 | 46.385 | 5.139 | 0.0 | 41.101 | 4.52 | 0.0 | 37.052 | 5.103 | 0.0 | 42.701 | 5.254 | 0.0 | 47.294 | 4.377 | 0.0 | 42.521 | 3.981 | 0.0 | 35.111 | 4.121 |
| 123 | 3162 | 3163 | SN | 1 | 0.0 | 44.92 | 2.282 | 0.0 | 44.594 | 2.024 | 0.0 | 37.547 | 1.587 | 0.0 | 37.716 | 2.115 | 0.0 | 42.592 | 1.8 | 0.0 | 44.411 | 1.696 | 0.0 | 36.902 | 1.343 | 0.0 | 40.52 | 1.646 |
| 124 | 3162 | 3163 | NS | 1 | 0.0 | 50.384 | 1.362 | 0.0 | 44.113 | 1.258 | 0.0 | 46.798 | 0.978 | 0.0 | 50.095 | 1.015 | 0.0 | 49.64 | 1.21 | 0.0 | 44.005 | 1.083 | 0.0 | 46.071 | 0.841 | 0.0 | 51.661 | 0.908 |
| 125 | 3162 | 3163 | SN | 1 | 0.0 | 42.852 | 6.395 | 0.0 | 46.385 | 5.284 | 0.0 | 41.101 | 4.63 | 0.0 | 37.052 | 5.251 | 0.0 | 42.701 | 5.405 | 0.0 | 47.294 | 4.501 | 0.0 | 42.521 | 4.089 | 0.0 | 35.111 | 4.241 |
| 126 | 3162 | 3163 | SN | 1 | 0.0 | 42.852 | 6.217 | 0.0 | 46.385 | 5.174 | 0.0 | 41.101 | 4.52 | 0.0 | 37.052 | 5.163 | 0.0 | 42.701 | 5.255 | 0.0 | 47.294 | 4.425 | 0.0 | 42.521 | 3.981 | 0.0 | 35.111 | 4.169 |
| 127 | 3162 | 3163 | NS | 1 | 0.0 | 46.371 | 1.394 | 0.0 | 46.999 | 1.225 | 0.0 | 42.015 | 0.967 | 0.0 | 41.33 | 0.984 | 0.0 | 48.896 | 1.186 | 0.0 | 45.624 | 1.115 | 0.0 | 43.315 | 0.831 | 0.0 | 43.024 | 0.844 |
| 128 | 3162 | 3163 | SN | 1 | 0.0 | 44.92 | 2.218 | 0.0 | 44.594 | 1.99 | 0.0 | 37.547 | 1.542 | 0.0 | 37.716 | 2.082 | 0.0 | 42.592 | 1.749 | 0.0 | 44.411 | 1.668 | 0.0 | 36.902 | 1.305 | 0.0 | 40.52 | 1.619 |
| 129 | 3162 | 3163 | SN | 1 | 0.0 | 44.92 | 2.218 | 0.0 | 44.594 | 1.968 | 0.0 | 37.547 | 1.542 | 0.0 | 37.716 | 2.059 | 0.0 | 42.592 | 1.749 | 0.0 | 44.411 | 1.649 | 0.0 | 36.902 | 1.305 | 0.0 | 40.52 | 1.601 |
| 130 | 3163 | 3164 | SN | 1 | 0.0 | 42.956 | 7.177 | 0.0 | 51.422 | 5.91 | 0.0 | 39.936 | 5.954 | 0.0 | 41.02 | 5.331 | 0.0 | 43.246 | 6.985 | 0.0 | 51.96 | 5.484 | 0.0 | 40.079 | 6.074 | 0.0 | 43.681 | 5.416 |
| 131 | 3163 | 3164 | NS | 1 | 0.0 | 51.387 | 6.87 | 0.0 | 52.256 | 6.562 | 0.0 | 45.748 | 5.307 | 0.0 | 44.92 | 5.313 | 0.0 | 49.97 | 6.19 | 0.0 | 52.536 | 6.003 | 0.0 | 44.722 | 4.531 | 0.0 | 43.701 | 4.728 |
| 132 | 3163 | 3164 | NS | 1 | 0.0 | 51.387 | 6.87 | 0.0 | 52.256 | 6.562 | 0.0 | 45.748 | 5.307 | 0.0 | 44.92 | 5.313 | 0.0 | 49.97 | 6.19 | 0.0 | 52.536 | 6.003 | 0.0 | 44.722 | 4.531 | 0.0 | 43.701 | 4.728 |
| 133 | 3163 | 3164 | SN | 1 | 0.0 | 42.956 | 7.179 | 0.0 | 51.422 | 5.974 | 0.0 | 39.936 | 5.954 | 0.0 | 41.02 | 5.386 | 0.0 | 43.246 | 6.987 | 0.0 | 51.96 | 5.543 | 0.0 | 40.079 | 6.074 | 0.0 | 43.681 | 5.48 |
| 134 | 3163 | 3164 | SN | 1 | 0.0 | 42.956 | 7.47 | 0.0 | 51.422 | 6.147 | 0.0 | 39.936 | 6.212 | 0.0 | 41.02 | 5.544 | 0.0 | 43.246 | 7.269 | 0.0 | 51.96 | 5.703 | 0.0 | 40.079 | 6.338 | 0.0 | 43.681 | 5.64 |
| 135 | 3163 | 3164 | NS | 1 | 0.0 | 50.853 | 2.273 | 0.0 | 50.236 | 2.035 | 0.0 | 43.314 | 1.438 | 0.0 | 41.464 | 1.552 | 0.0 | 49.582 | 1.884 | 0.0 | 51.04 | 1.777 | 0.0 | 42.096 | 1.2 | 0.0 | 39.448 | 1.314 |
| 136 | 3163 | 3164 | SN | 1 | 0.0 | 40.613 | 2.69 | 0.0 | 46.715 | 2.402 | 0.0 | 37.892 | 2.094 | 0.0 | 41.959 | 1.912 | 0.0 | 40.206 | 2.577 | 0.0 | 45.641 | 2.249 | 0.0 | 37.319 | 2.07 | 0.0 | 41.021 | 1.833 |
| 137 | 3163 | 3164 | SN | 1 | 0.0 | 40.613 | 2.579 | 0.0 | 46.715 | 2.302 | 0.0 | 37.892 | 2.015 | 0.0 | 41.959 | 1.837 | 0.0 | 40.206 | 2.471 | 0.0 | 45.641 | 2.155 | 0.0 | 37.319 | 1.991 | 0.0 | 41.021 | 1.759 |
| 138 | 3163 | 3164 | NS | 1 | 0.0 | 50.853 | 2.273 | 0.0 | 50.236 | 2.035 | 0.0 | 43.314 | 1.438 | 0.0 | 41.464 | 1.552 | 0.0 | 49.582 | 1.884 | 0.0 | 51.04 | 1.777 | 0.0 | 42.096 | 1.2 | 0.0 | 39.448 | 1.314 |
| 139 | 3163 | 3164 | SN | 1 | 0.0 | 40.613 | 2.579 | 0.0 | 46.715 | 2.328 | 0.0 | 37.892 | 2.015 | 0.0 | 41.959 | 1.858 | 0.0 | 40.206 | 2.471 | 0.0 | 45.641 | 2.179 | 0.0 | 37.319 | 1.991 | 0.0 | 41.021 | 1.779 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 140 | 3164 | 3165 | NS | 1 | 0.0 | 49.165 | 2.783 | 0.0 | 56.746 | 2.735 | 0.0 | 42.986 | 1.885 | 0.0 | 42.946 | 2.0 | 0.0 | 44.489 | 2.498 | 0.0 | 57.35 | 2.457 | 0.0 | 38.659 | 1.702 | 0.0 | 42.38 | 1.701 |
| 141 | 3164 | 3165 | NS | 1 | 0.0 | 48.486 | 2.791 | 0.0 | 51.388 | 2.768 | 0.0 | 45.89 | 1.803 | 0.0 | 44.105 | 2.059 | 0.0 | 51.443 | 2.473 | 0.0 | 50.828 | 2.508 | 0.0 | 43.629 | 1.63 | 0.0 | 42.384 | 1.773 |
| 142 | 3164 | 3165 | SN | 1 | 0.0 | 52.067 | 8.224 | 0.0 | 56.204 | 7.26 | 0.0 | 47.765 | 5.119 | 0.0 | 43.135 | 5.632 | 0.0 | 51.63 | 7.279 | 0.0 | 56.803 | 6.572 | 0.0 | 47.179 | 4.638 | 0.0 | 41.835 | 4.828 |
| 143 | 3164 | 3165 | SN | 1 | 0.0 | 55.4 | 2.664 | 0.0 | 50.205 | 2.381 | 0.0 | 46.456 | 1.567 | 0.0 | 43.684 | 1.567 | 0.0 | 52.326 | 2.247 | 0.0 | 50.541 | 2.042 | 0.0 | 44.142 | 1.352 | 0.0 | 43.209 | 1.353 |
| 144 | 3164 | 3165 | SN | 1 | 0.0 | 55.4 | 2.664 | 0.0 | 50.205 | 2.355 | 0.0 | 46.456 | 1.567 | 0.0 | 43.684 | 1.55 | 0.0 | 52.326 | 2.247 | 0.0 | 50.541 | 2.02 | 0.0 | 44.142 | 1.352 | 0.0 | 43.209 | 1.34 |
| 145 | 3164 | 3165 | NS | 1 | 0.0 | 50.109 | 8.218 | 0.0 | 56.746 | 7.764 | 0.0 | 47.863 | 5.894 | 0.0 | 44.668 | 6.363 | 0.0 | 49.634 | 7.497 | 0.0 | 57.35 | 7.173 | 0.0 | 46.705 | 5.361 | 0.0 | 48.399 | 6.035 |
| 146 | 3164 | 3165 | NS | 1 | 0.0 | 47.457 | 7.804 | 0.0 | 56.746 | 7.61 | 0.0 | 45.555 | 5.939 | 0.0 | 47.329 | 6.347 | 0.0 | 47.87 | 7.286 | 0.0 | 57.35 | 7.152 | 0.0 | 46.705 | 5.526 | 0.0 | 45.573 | 5.77 |
| 147 | 3164 | 3165 | SN | 1 | 0.0 | 52.067 | 8.033 | 0.0 | 56.204 | 7.139 | 0.0 | 47.765 | 5.0 | 0.0 | 43.135 | 5.495 | 0.0 | 51.63 | 7.101 | 0.0 | 56.803 | 6.428 | 0.0 | 47.179 | 4.524 | 0.0 | 41.835 | 4.705 |
| 148 | 3164 | 3165 | SN | 1 | 0.0 | 55.4 | 2.731 | 0.0 | 50.205 | 2.41 | 0.0 | 46.456 | 1.601 | 0.0 | 43.684 | 1.583 | 0.0 | 52.326 | 2.303 | 0.0 | 50.541 | 2.067 | 0.0 | 44.142 | 1.381 | 0.0 | 43.209 | 1.37 |
| 149 | 3164 | 3165 | SN | 1 | 0.0 | 52.067 | 8.035 | 0.0 | 56.204 | 7.206 | 0.0 | 47.765 | 5.0 | 0.0 | 43.135 | 5.559 | 0.0 | 51.63 | 7.103 | 0.0 | 56.803 | 6.487 | 0.0 | 47.179 | 4.524 | 0.0 | 41.835 | 4.752 |
| 150 | 3165 | 3166 | SN | 1 | 0.0 | 51.367 | 3.503 | 0.0 | 53.167 | 3.388 | 0.0 | 49.046 | 2.109 | 0.0 | 46.115 | 2.187 | 0.0 | 51.598 | 3.276 | 0.0 | 53.716 | 3.114 | 0.0 | 46.56 | 1.98 | 0.0 | 46.642 | 1.968 |
| 151 | 3165 | 3166 | NS | 1 | 0.0 | 44.079 | 5.703 | 0.0 | 44.56 | 4.946 | 0.0 | 40.582 | 4.942 | 0.0 | 39.976 | 4.13 | 0.0 | 45.018 | 5.338 | 0.0 | 42.917 | 4.447 | 0.0 | 38.568 | 4.686 | 0.0 | 35.954 | 3.802 |
| 152 | 3165 | 3166 | NS | 1 | 0.0 | 44.189 | 5.764 | 0.0 | 44.614 | 4.996 | 0.0 | 48.95 | 4.85 | 0.0 | 40.784 | 4.137 | 0.0 | 45.124 | 5.328 | 0.0 | 42.883 | 4.447 | 0.0 | 47.267 | 4.651 | 0.0 | 36.601 | 3.816 |
| 153 | 3165 | 3166 | SN | 1 | 0.0 | 57.186 | 10.862 | 0.0 | 57.197 | 11.82 | 0.0 | 48.141 | 7.23 | 0.0 | 50.253 | 7.596 | 0.0 | 59.188 | 10.498 | 0.0 | 57.114 | 11.215 | 0.0 | 46.704 | 6.818 | 0.0 | 49.132 | 7.301 |
| 154 | 3165 | 3166 | NS | 1 | 0.0 | 41.614 | 1.791 | 0.0 | 41.0 | 1.592 | 0.0 | 37.609 | 1.551 | 0.0 | 37.724 | 1.45 | 0.0 | 42.757 | 1.561 | 0.0 | 37.428 | 1.47 | 0.0 | 34.59 | 1.402 | 0.0 | 35.975 | 1.325 |
| 155 | 3165 | 3166 | SN | 1 | 0.0 | 57.186 | 11.713 | 0.0 | 57.197 | 12.434 | 0.0 | 48.141 | 7.847 | 0.0 | 50.253 | 8.017 | 0.0 | 59.188 | 11.36 | 0.0 | 57.114 | 11.88 | 0.0 | 46.704 | 7.429 | 0.0 | 49.132 | 7.777 |
| 156 | 3165 | 3166 | SN | 1 | 0.0 | 57.111 | 10.909 | 0.0 | 57.197 | 11.64 | 0.0 | 48.888 | 7.149 | 0.0 | 50.653 | 7.518 | 0.0 | 57.208 | 10.463 | 0.0 | 57.114 | 11.041 | 0.0 | 47.351 | 6.723 | 0.0 | 49.622 | 7.269 |
| 157 | 3165 | 3166 | SN | 1 | 0.0 | 51.367 | 3.803 | 0.0 | 53.167 | 3.618 | 0.0 | 49.046 | 2.291 | 0.0 | 46.115 | 2.31 | 0.0 | 51.598 | 3.557 | 0.0 | 53.716 | 3.34 | 0.0 | 46.56 | 2.153 | 0.0 | 46.642 | 2.099 |
| 158 | 3165 | 3166 | NS | 1 | 0.0 | 42.98 | 1.802 | 0.0 | 41.993 | 1.585 | 0.0 | 35.943 | 1.563 | 0.0 | 36.446 | 1.462 | 0.0 | 44.124 | 1.585 | 0.0 | 39.622 | 1.47 | 0.0 | 34.955 | 1.409 | 0.0 | 36.145 | 1.34 |
| 159 | 3165 | 3166 | SN | 1 | 0.0 | 51.773 | 3.526 | 0.0 | 48.905 | 3.375 | 0.0 | 46.594 | 2.06 | 0.0 | 46.967 | 2.18 | 0.0 | 52.009 | 3.281 | 0.0 | 46.32 | 3.081 | 0.0 | 45.848 | 1.942 | 0.0 | 46.068 | 1.97 |
| 160 | 3166 | 3167 | SN | 1 | 0.0 | 44.263 | 2.637 | 0.0 | 49.987 | 2.466 | 0.0 | 47.72 | 1.785 | 0.0 | 39.651 | 1.806 | 0.0 | 42.51 | 2.583 | 0.0 | 50.82 | 2.319 | 0.0 | 47.593 | 1.794 | 0.0 | 41.714 | 1.687 |
| 161 | 3166 | 3167 | SN | 1 | 0.0 | 50.791 | 8.145 | 0.0 | 56.336 | 7.695 | 0.0 | 46.048 | 5.747 | 0.0 | 47.855 | 5.909 | 0.0 | 52.49 | 7.801 | 0.0 | 54.072 | 7.513 | 0.0 | 45.27 | 5.938 | 0.0 | 44.678 | 5.731 |
| 162 | 3166 | 3167 | SN | 1 | 0.0 | 55.195 | 8.186 | 0.0 | 56.336 | 7.696 | 0.0 | 46.71 | 5.846 | 0.0 | 48.358 | 5.831 | 0.0 | 54.053 | 7.851 | 0.0 | 54.072 | 7.564 | 0.0 | 45.45 | 5.988 | 0.0 | 45.149 | 5.71 |
| 163 | 3166 | 3167 | NS | 1 | 0.0 | 47.822 | 1.362 | 0.0 | 39.538 | 1.183 | 0.0 | 37.581 | 1.091 | 0.0 | 49.588 | 1.121 | 0.0 | 43.867 | 1.235 | 0.0 | 37.125 | 0.991 | 0.0 | 36.088 | 0.964 | 0.0 | 48.205 | 0.991 |
| 164 | 3166 | 3167 | NS | 1 | 0.0 | 48.969 | 4.211 | 0.0 | 49.097 | 3.877 | 0.0 | 38.816 | 3.563 | 0.0 | 42.281 | 3.296 | 0.0 | 48.582 | 3.815 | 0.0 | 48.427 | 3.531 | 0.0 | 39.329 | 3.357 | 0.0 | 43.181 | 3.103 |
| 165 | 3166 | 3167 | SN | 1 | 0.0 | 44.263 | 2.628 | 0.0 | 52.341 | 2.453 | 0.0 | 49.762 | 1.776 | 0.0 | 40.247 | 1.811 | 0.0 | 42.919 | 2.577 | 0.0 | 50.873 | 2.326 | 0.0 | 46.702 | 1.78 | 0.0 | 40.638 | 1.699 |
| 166 | 3166 | 3167 | NS | 1 | 0.0 | 47.555 | 1.38 | 0.0 | 39.38 | 1.192 | 0.0 | 36.88 | 1.083 | 0.0 | 49.252 | 1.125 | 0.0 | 44.002 | 1.231 | 0.0 | 36.89 | 0.993 | 0.0 | 35.557 | 0.969 | 0.0 | 47.87 | 1.006 |
| 167 | 3166 | 3167 | NS | 1 | 0.0 | 49.048 | 4.272 | 0.0 | 47.318 | 3.836 | 0.0 | 38.305 | 3.485 | 0.0 | 42.966 | 3.381 | 0.0 | 48.66 | 3.876 | 0.0 | 48.022 | 3.5 | 0.0 | 39.392 | 3.364 | 0.0 | 43.875 | 3.203 |
| 168 | 3167 | 3168 | NS | 1 | 0.0 | 49.713 | 7.82 | 0.0 | 52.117 | 6.972 | 0.0 | 51.453 | 4.998 | 0.0 | 43.336 | 5.017 | 0.0 | 50.648 | 6.989 | 0.0 | 52.13 | 6.148 | 0.0 | 51.232 | 4.529 | 0.0 | 42.392 | 4.46 |
| 169 | 3167 | 3168 | NS | 1 | 0.0 | 45.869 | 2.515 | 0.0 | 50.783 | 2.007 | 0.0 | 43.265 | 1.634 | 0.0 | 38.627 | 1.57 | 0.0 | 44.272 | 2.109 | 0.0 | 47.293 | 1.774 | 0.0 | 42.333 | 1.417 | 0.0 | 39.779 | 1.305 |
| 170 | 3167 | 3168 | NS | 1 | 0.0 | 49.702 | 2.499 | 0.0 | 48.034 | 2.007 | 0.0 | 44.65 | 1.634 | 0.0 | 40.983 | 1.568 | 0.0 | 45.032 | 2.1 | 0.0 | 44.544 | 1.792 | 0.0 | 44.416 | 1.421 | 0.0 | 39.779 | 1.307 |
| 171 | 3167 | 3168 | SN | 1 | 0.0 | 43.673 | 6.351 | 0.0 | 53.091 | 6.219 | 0.0 | 36.692 | 4.631 | 0.0 | 48.135 | 4.752 | 0.0 | 42.22 | 6.189 | 0.0 | 55.62 | 5.935 | 0.0 | 36.41 | 4.66 | 0.0 | 45.207 | 4.858 |
| 172 | 3167 | 3168 | NS | 1 | 0.0 | 49.656 | 7.82 | 0.0 | 54.454 | 6.992 | 0.0 | 42.323 | 5.012 | 0.0 | 43.571 | 4.974 | 0.0 | 49.77 | 6.999 | 0.0 | 51.462 | 6.137 | 0.0 | 44.213 | 4.536 | 0.0 | 42.628 | 4.424 |
| 173 | 3167 | 3168 | SN | 1 | 0.0 | 42.334 | 2.019 | 0.0 | 43.478 | 1.946 | 0.0 | 46.713 | 1.498 | 0.0 | 40.193 | 1.644 | 0.0 | 40.709 | 1.954 | 0.0 | 41.743 | 1.899 | 0.0 | 43.584 | 1.535 | 0.0 | 41.845 | 1.648 |
| 174 | 3168 | 3169 | NS | 1 | 0.0 | 42.485 | 2.113 | 0.0 | 44.306 | 1.798 | 0.0 | 37.956 | 1.444 | 0.0 | 38.22 | 1.605 | 0.0 | 40.732 | 1.763 | 0.0 | 45.003 | 1.651 | 0.0 | 35.722 | 1.339 | 0.0 | 40.554 | 1.438 |
| 175 | 3168 | 3169 | NS | 1 | 0.0 | 48.717 | 4.777 | 0.0 | 52.21 | 4.468 | 0.0 | 43.751 | 4.01 | 0.0 | 41.891 | 4.589 | 0.0 | 50.744 | 4.26 | 0.0 | 53.732 | 4.152 | 0.0 | 44.024 | 3.804 | 0.0 | 43.749 | 4.318 |

| | | | | | |
|--------------------------|------------|------|--------|--------|------------|
| 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 | 3144 | 3145 | SN | 1 | 0.0 | 33.239 | 15.858 | 0.0 | 26.637 | 15.384 | 0.0 | 176.414 | 13.15 | 0.0 | 68.667 | 13.101 | 0.0 | 1.901 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.087 | 0.0 |
| 2 | 3144 | 3145 | SN | 1 | 0.0 | 24.746 | 9.258 | 0.0 | 133.452 | 9.227 | 0.0 | 221.653 | 3.558 | 0.0 | 86.671 | 3.428 | 0.0 | 1.894 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.054 | 0.0 |
| 3 | 3144 | 3145 | NS | 1 | 0.0 | 25.987 | 8.518 | 0.0 | 25.97 | 8.876 | 0.0 | 354.91 | 2.342 | 0.0 | 67.868 | 2.767 | 0.0 | 1.893 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.024 | 0.0 |
| 4 | 3144 | 3145 | NS | 1 | 0.0 | 25.987 | 8.518 | 0.0 | 25.97 | 8.876 | 0.0 | 354.91 | 2.342 | 0.0 | 67.868 | 2.767 | 0.0 | 1.893 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.024 | 0.0 |
| 5 | 3144 | 3145 | SN | 1 | 0.0 | 24.746 | 9.362 | 0.0 | 133.452 | 9.197 | 0.0 | 221.653 | 3.661 | 0.0 | 12.993 | 3.333 | 0.0 | 1.894 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.054 | 0.0 |
| 6 | 3144 | 3145 | SN | 1 | 0.0 | 33.239 | 15.846 | 0.0 | 26.637 | 14.945 | 0.0 | 176.414 | 13.41 | 0.0 | 14.35 | 12.418 | 0.0 | 1.901 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.087 | 0.0 |
| 7 | 3144 | 3145 | SN | 1 | 0.0 | 24.746 | 9.253 | 0.0 | 133.452 | 9.263 | 0.0 | 221.653 | 3.558 | 0.0 | 86.671 | 3.467 | 0.0 | 1.894 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.042 | 0.0 | 0.0 | 2.054 | 0.0 |
| 8 | 3144 | 3145 | SN | 1 | 0.0 | 33.239 | 15.853 | 0.0 | 26.637 | 15.343 | 0.0 | 176.414 | 13.15 | 0.0 | 68.077 | 12.987 | 0.0 | 1.901 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.087 | 0.0 |
| 9 | 3144 | 3145 | NS | 1 | 0.0 | 25.022 | 15.022 | 0.0 | 33.426 | 15.249 | 0.0 | 353.801 | 11.777 | 0.0 | 53.154 | 12.537 | 0.0 | 1.903 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.025 | 0.0 |
| 10 | 3144 | 3145 | NS | 1 | 0.0 | 25.022 | 15.022 | 0.0 | 33.426 | 15.249 | 0.0 | 353.801 | 11.777 | 0.0 | 53.154 | 12.537 | 0.0 | 1.903 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.025 | 0.0 |
| 11 | 3145 | 3146 | SN | 1 | 0.0 | 24.762 | 9.265 | 0.0 | 26.119 | 9.26 | 0.0 | 225.111 | 3.553 | 0.0 | 87.824 | 3.482 | 0.0 | 1.895 | 0.0 | 0.0 | 1.929 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.056 | 0.0 |
| 12 | 3145 | 3146 | SN | 1 | 0.0 | 33.228 | 15.835 | 0.0 | 26.637 | 15.129 | 0.0 | 183.098 | 13.342 | 0.0 | 17.802 | 12.697 | 0.0 | 1.904 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.091 | 0.0 |
| 13 | 3145 | 3146 | NS | 1 | 0.0 | 25.998 | 8.484 | 0.0 | 25.965 | 8.895 | 0.0 | 349.13 | 2.319 | 0.0 | 69.224 | 2.775 | 0.0 | 1.895 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.02 | 0.0 |
| 14 | 3145 | 3146 | SN | 1 | 0.0 | 24.762 | 9.271 | 0.0 | 26.119 | 9.225 | 0.0 | 225.111 | 3.553 | 0.0 | 87.824 | 3.443 | 0.0 | 1.895 | 0.0 | 0.0 | 1.929 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.056 | 0.0 |
| 15 | 3145 | 3146 | NS | 1 | 0.0 | 25.033 | 15.014 | 0.0 | 30.046 | 15.291 | 0.0 | 117.605 | 11.59 | 0.0 | 54.113 | 12.538 | 0.0 | 1.903 | 0.0 | 0.0 | 1.903 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.024 | 0.0 |
| 16 | 3145 | 3146 | SN | 1 | 0.0 | 33.228 | 15.828 | 0.0 | 26.637 | 15.343 | 0.0 | 183.098 | 13.207 | 0.0 | 82.132 | 13.115 | 0.0 | 1.904 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.091 | 0.0 |
| 17 | 3145 | 3146 | NS | 1 | 0.0 | 25.033 | 15.086 | 0.0 | 30.239 | 15.339 | 0.0 | 353.873 | 11.599 | 0.0 | 53.512 | 12.501 | 0.0 | 1.902 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.024 | 0.0 |
| 18 | 3145 | 3146 | NS | 1 | 0.0 | 25.998 | 8.48 | 0.0 | 25.965 | 8.883 | 0.0 | 355.031 | 2.296 | 0.0 | 45.063 | 2.775 | 0.0 | 1.894 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.02 | 0.0 |
| 19 | 3145 | 3146 | SN | 1 | 0.0 | 24.762 | 9.315 | 0.0 | 26.119 | 9.207 | 0.0 | 225.111 | 3.606 | 0.0 | 12.982 | 3.32 | 0.0 | 1.895 | 0.0 | 0.0 | 1.929 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.056 | 0.0 |
| 20 | 3145 | 3146 | SN | 1 | 0.0 | 33.228 | 15.823 | 0.0 | 26.637 | 15.301 | 0.0 | 183.098 | 13.207 | 0.0 | 82.132 | 13.0 | 0.0 | 1.904 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.091 | 0.0 |
| 21 | 3146 | 3147 | SN | 1 | 0.0 | 24.762 | 9.272 | 0.0 | 75.751 | 9.206 | 0.0 | 225.227 | 3.585 | 0.0 | 88.833 | 3.505 | 0.0 | 1.896 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.075 | 0.0 |
| 22 | 3146 | 3147 | NS | 1 | 0.0 | 25.016 | 15.106 | 0.0 | 30.261 | 15.378 | 0.0 | 357.248 | 11.543 | 0.0 | 53.865 | 12.522 | 0.0 | 1.902 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 23 | 3146 | 3147 | SN | 1 | 0.0 | 33.112 | 15.86 | 0.0 | 75.751 | 15.333 | 0.0 | 182.133 | 13.193 | 0.0 | 71.088 | 13.173 | 0.0 | 1.903 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.089 | 0.0 |
| 24 | 3146 | 3147 | SN | 1 | 0.0 | 24.762 | 9.279 | 0.0 | 75.751 | 9.172 | 0.0 | 225.227 | 3.583 | 0.0 | 88.833 | 3.465 | 0.0 | 1.896 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.075 | 0.0 |
| 25 | 3146 | 3147 | SN | 1 | 0.0 | 33.112 | 15.855 | 0.0 | 75.751 | 15.292 | 0.0 | 182.133 | 13.193 | 0.0 | 71.088 | 13.057 | 0.0 | 1.903 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.089 | 0.0 |
| 26 | 3146 | 3147 | SN | 1 | 0.0 | 24.762 | 9.325 | 0.0 | 75.751 | 9.158 | 0.0 | 225.227 | 3.634 | 0.0 | 12.993 | 3.338 | 0.0 | 1.896 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.075 | 0.0 |
| 27 | 3146 | 3147 | NS | 1 | 0.0 | 25.981 | 8.45 | 0.0 | 25.959 | 8.813 | 0.0 | 317.198 | 2.289 | 0.0 | 44.065 | 2.79 | 0.0 | 1.893 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.02 | 0.0 |
| 28 | 3146 | 3147 | NS | 1 | 0.0 | 25.981 | 8.435 | 0.0 | 25.959 | 8.822 | 0.0 | 355.108 | 2.306 | 0.0 | 72.66 | 2.789 | 0.0 | 1.892 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.019 | 0.0 |
| 29 | 3146 | 3147 | SN | 1 | 0.0 | 33.112 | 15.856 | 0.0 | 75.751 | 15.129 | 0.0 | 182.133 | 13.327 | 0.0 | 17.83 | 12.791 | 0.0 | 1.903 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.089 | 0.0 |
| 30 | 3146 | 3147 | NS | 1 | 0.0 | 25.022 | 15.084 | 0.0 | 30.068 | 15.278 | 0.0 | 349.257 | 11.54 | 0.0 | 53.865 | 12.538 | 0.0 | 1.902 | 0.0 | 0.0 | 1.902 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 31 | 3147 | 3148 | SN | 1 | 0.0 | 24.779 | 9.351 | 0.0 | 26.114 | 9.145 | 0.0 | 251.258 | 3.691 | 0.0 | 12.993 | 3.354 | 0.0 | 1.898 | 0.0 | 0.0 | 1.915 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.076 | 0.0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 32 | 3147 | 3148 | SN | 1 | 0.0 | 33.173 | 15.885 | 0.0 | 203.937 | 15.303 | 0.0 | 173.927 | 13.187 | 0.0 | 77.91 | 13.114 | 0.0 | 1.904 | 0.0 | 0.0 | 1.914 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.091 | 0.0 |
| 33 | 3147 | 3148 | NS | 1 | 0.0 | 25.981 | 8.423 | 0.0 | 25.954 | 8.829 | 0.0 | 291.553 | 2.285 | 0.0 | 44.412 | 2.786 | 0.0 | 1.895 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.019 | 0.0 |
| 34 | 3147 | 3148 | NS | 1 | 0.0 | 25.011 | 15.106 | 0.0 | 34.287 | 15.314 | 0.0 | 357.32 | 11.506 | 0.0 | 54.185 | 12.586 | 0.0 | 1.903 | 0.0 | 0.0 | 1.907 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.022 | 0.0 |
| 35 | 3147 | 3148 | SN | 1 | 0.0 | 33.173 | 15.89 | 0.0 | 26.637 | 15.322 | 0.0 | 174.064 | 13.208 | 0.0 | 77.839 | 13.237 | 0.0 | 1.904 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.091 | 0.0 |
| 36 | 3147 | 3148 | SN | 1 | 0.0 | 24.779 | 9.279 | 0.0 | 26.114 | 9.201 | 0.0 | 251.258 | 3.615 | 0.0 | 68.287 | 3.507 | 0.0 | 1.898 | 0.0 | 0.0 | 1.915 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.076 | 0.0 |
| 37 | 3147 | 3148 | NS | 1 | 0.0 | 25.027 | 15.011 | 0.0 | 32.478 | 15.334 | 0.0 | 329.552 | 11.565 | 0.0 | 37.287 | 12.522 | 0.0 | 1.902 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.024 | 0.0 |
| 38 | 3147 | 3148 | SN | 1 | 0.0 | 33.173 | 15.886 | 0.0 | 26.637 | 15.01 | 0.0 | 174.064 | 13.394 | 0.0 | 15.47 | 12.709 | 0.0 | 1.904 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.091 | 0.0 |
| 39 | 3147 | 3148 | NS | 1 | 0.0 | 25.981 | 8.415 | 0.0 | 25.954 | 8.832 | 0.0 | 335.69 | 2.3 | 0.0 | 69.423 | 2.79 | 0.0 | 1.893 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.019 | 0.0 |
| 40 | 3147 | 3148 | SN | 1 | 0.0 | 24.779 | 9.282 | 0.0 | 79.97 | 9.179 | 0.0 | 251.142 | 3.603 | 0.0 | 68.347 | 3.465 | 0.0 | 1.894 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.076 | 0.0 |
| 41 | 3148 | 3149 | SN | 1 | 0.0 | 30.344 | 15.787 | 0.0 | 26.621 | 15.337 | 0.0 | 214.611 | 13.213 | 0.0 | 72.919 | 13.184 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.074 | 0.0 |
| 42 | 3148 | 3149 | SN | 1 | 0.0 | 24.773 | 9.287 | 0.0 | 26.119 | 9.175 | 0.0 | 209.62 | 3.597 | 0.0 | 90.537 | 3.463 | 0.0 | 1.896 | 0.0 | 0.0 | 1.929 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.054 | 0.0 |
| 43 | 3148 | 3149 | SN | 1 | 0.0 | 30.344 | 15.783 | 0.0 | 26.621 | 15.282 | 0.0 | 214.611 | 13.213 | 0.0 | 72.919 | 13.06 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.074 | 0.0 |
| 44 | 3148 | 3149 | SN | 1 | 0.0 | 30.344 | 15.809 | 0.0 | 26.621 | 14.936 | 0.0 | 214.611 | 13.494 | 0.0 | 14.356 | 12.509 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.074 | 0.0 |
| 45 | 3148 | 3149 | SN | 1 | 0.0 | 24.773 | 9.397 | 0.0 | 26.119 | 9.151 | 0.0 | 209.62 | 3.705 | 0.0 | 13.004 | 3.366 | 0.0 | 1.896 | 0.0 | 0.0 | 1.929 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.054 | 0.0 |
| 46 | 3148 | 3149 | NS | 1 | 0.0 | 24.999 | 15.009 | 0.0 | 34.419 | 15.332 | 0.0 | 339.424 | 11.592 | 0.0 | 37.629 | 12.578 | 0.0 | 1.901 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 47 | 3148 | 3149 | NS | 1 | 0.0 | 24.999 | 15.095 | 0.0 | 30.084 | 15.27 | 0.0 | 349.874 | 11.603 | 0.0 | 54.786 | 12.545 | 0.0 | 1.901 | 0.0 | 0.0 | 1.903 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.025 | 0.0 |
| 48 | 3148 | 3149 | NS | 1 | 0.0 | 25.981 | 8.464 | 0.0 | 25.97 | 8.824 | 0.0 | 344.784 | 2.301 | 0.0 | 58.415 | 2.795 | 0.0 | 1.894 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.018 | 0.0 |
| 49 | 3148 | 3149 | SN | 1 | 0.0 | 24.773 | 9.278 | 0.0 | 26.119 | 9.213 | 0.0 | 209.62 | 3.597 | 0.0 | 90.537 | 3.502 | 0.0 | 1.896 | 0.0 | 0.0 | 1.929 | 0.0 | 0.0 | 2.041 | 0.0 | 0.0 | 2.054 | 0.0 |
| 50 | 3148 | 3149 | NS | 1 | 0.0 | 25.981 | 8.455 | 0.0 | 25.97 | 8.823 | 0.0 | 334.102 | 2.312 | 0.0 | 69.776 | 2.79 | 0.0 | 1.893 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.018 | 0.0 |
| 51 | 3149 | 3150 | NS | 1 | 0.0 | 25.011 | 15.041 | 0.0 | 30.288 | 15.27 | 0.0 | 348.578 | 11.645 | 0.0 | 55.536 | 12.595 | 0.0 | 1.902 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 52 | 3149 | 3150 | SN | 1 | 0.0 | 24.779 | 9.299 | 0.0 | 26.108 | 9.226 | 0.0 | 187.361 | 3.598 | 0.0 | 137.056 | 3.493 | 0.0 | 1.895 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.069 | 0.0 |
| 53 | 3149 | 3150 | NS | 1 | 0.0 | 25.011 | 15.041 | 0.0 | 30.288 | 15.27 | 0.0 | 348.578 | 11.645 | 0.0 | 55.536 | 12.595 | 0.0 | 1.902 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 54 | 3149 | 3150 | SN | 1 | 0.0 | 24.779 | 9.306 | 0.0 | 26.108 | 9.186 | 0.0 | 187.361 | 3.598 | 0.0 | 137.056 | 3.454 | 0.0 | 1.895 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.069 | 0.0 |
| 55 | 3149 | 3150 | SN | 1 | 0.0 | 30.283 | 15.826 | 0.0 | 26.637 | 15.276 | 0.0 | 195.841 | 13.198 | 0.0 | 80.188 | 13.213 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.073 | 0.0 |
| 56 | 3149 | 3150 | NS | 1 | 0.0 | 25.992 | 8.473 | 0.0 | 25.965 | 8.88 | 0.0 | 316.801 | 2.309 | 0.0 | 59.281 | 2.797 | 0.0 | 1.893 | 0.0 | 0.0 | 1.897 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.02 | 0.0 |
| 57 | 3149 | 3150 | NS | 1 | 0.0 | 25.992 | 8.473 | 0.0 | 25.965 | 8.88 | 0.0 | 316.801 | 2.309 | 0.0 | 59.281 | 2.797 | 0.0 | 1.893 | 0.0 | 0.0 | 1.897 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.02 | 0.0 |
| 58 | 3149 | 3150 | SN | 1 | 0.0 | 24.779 | 9.465 | 0.0 | 26.108 | 9.166 | 0.0 | 187.361 | 3.764 | 0.0 | 12.988 | 3.385 | 0.0 | 1.895 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.069 | 0.0 |
| 59 | 3149 | 3150 | SN | 1 | 0.0 | 30.283 | 15.853 | 0.0 | 26.637 | 14.824 | 0.0 | 195.841 | 13.601 | 0.0 | 14.361 | 12.427 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.073 | 0.0 |
| 60 | 3149 | 3150 | SN | 1 | 0.0 | 30.283 | 15.821 | 0.0 | 26.637 | 15.232 | 0.0 | 195.841 | 13.198 | 0.0 | 80.188 | 13.089 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.073 | 0.0 |
| 61 | 3150 | 3151 | SN | 1 | 0.0 | 24.757 | 9.279 | 0.0 | 26.114 | 9.233 | 0.0 | 177.001 | 3.574 | 0.0 | 67.333 | 3.479 | 0.0 | 1.894 | 0.0 | 0.0 | 1.91 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.069 | 0.0 |
| 62 | 3150 | 3151 | NS | 1 | 0.0 | 25.981 | 8.523 | 0.0 | 25.97 | 8.893 | 0.0 | 355.307 | 2.329 | 0.0 | 75.092 | 2.808 | 0.0 | 1.893 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.019 | 0.0 |
| 63 | 3150 | 3151 | SN | 1 | 0.0 | 30.812 | 15.972 | 0.0 | 26.61 | 14.785 | 0.0 | 200.859 | 13.67 | 0.0 | 13.506 | 12.138 | 0.0 | 1.9 | 0.0 | 0.0 | 1.915 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.066 | 0.0 |
| 64 | 3150 | 3151 | SN | 1 | 0.0 | 30.812 | 15.843 | 0.0 | 26.61 | 15.253 | 0.0 | 200.859 | 13.103 | 0.0 | 75.533 | 12.947 | 0.0 | 1.9 | 0.0 | 0.0 | 1.915 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.066 | 0.0 |
| 65 | 3150 | 3151 | NS | 1 | 0.0 | 25.981 | 8.518 | 0.0 | 25.97 | 8.883 | 0.0 | 336.947 | 2.342 | 0.0 | 70.035 | 2.798 | 0.0 | 1.893 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.02 | 0.0 |
| 66 | 3150 | 3151 | NS | 1 | 0.0 | 25.027 | 15.07 | 0.0 | 30.128 | 15.271 | 0.0 | 353.564 | 11.743 | 0.0 | 56.413 | 12.495 | 0.0 | 1.902 | 0.0 | 0.0 | 1.903 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.026 | 0.0 |
| 67 | 3150 | 3151 | SN | 1 | 0.0 | 24.757 | 9.285 | 0.0 | 26.114 | 9.195 | 0.0 | 177.001 | 3.574 | 0.0 | 67.305 | 3.439 | 0.0 | 1.894 | 0.0 | 0.0 | 1.91 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.069 | 0.0 |
| 68 | 3150 | 3151 | SN | 1 | 0.0 | 29.263 | 15.848 | 0.0 | 26.61 | 15.295 | 0.0 | 200.859 | 13.103 | 0.0 | 75.567 | 13.062 | 0.0 | 1.9 | 0.0 | 0.0 | 1.915 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.066 | 0.0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|------|----|---|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|--------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 69 | 3150 | 3151 | SN | 1 | 0.0 | 24.757 | 9.497 | 0.0 | 26.114 | 9.191 | 0.0 | 177.001 | 3.808 | 0.0 | 12.988 | 3.391 | 0.0 | 1.894 | 0.0 | 0.0 | 1.91 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.069 | 0.0 |
| 70 | 3150 | 3151 | NS | 1 | 0.0 | 25.044 | 15.089 | 0.0 | 30.128 | 15.334 | 0.0 | 350.531 | 11.784 | 0.0 | 38.588 | 12.49 | 0.0 | 1.902 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.025 | 0.0 |
| 71 | 3151 | 3152 | SN | 1 | 0.0 | 32.384 | 15.802 | 0.0 | 26.588 | 15.311 | 0.0 | 353.239 | 13.033 | 0.0 | 72.489 | 13.041 | 0.0 | 1.902 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.091 | 0.0 |
| 72 | 3151 | 3152 | NS | 1 | 0.0 | 24.994 | 15.04 | 0.0 | 32.66 | 15.283 | 0.0 | 354.673 | 11.855 | 0.0 | 39.195 | 12.583 | 0.0 | 1.902 | 0.0 | 0.0 | 1.902 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.027 | 0.0 |
| 73 | 3151 | 3152 | NS | 1 | 0.0 | 24.994 | 15.057 | 0.0 | 32.66 | 15.283 | 0.0 | 354.656 | 11.848 | 0.0 | 39.184 | 12.59 | 0.0 | 1.902 | 0.0 | 0.0 | 1.903 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.027 | 0.0 |
| 74 | 3151 | 3152 | SN | 1 | 0.0 | 33.14 | 16.025 | 0.0 | 26.588 | 14.775 | 0.0 | 353.239 | 13.869 | 0.0 | 13.539 | 12.029 | 0.0 | 1.902 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.091 | 0.0 |
| 75 | 3151 | 3152 | SN | 1 | 0.0 | 33.14 | 15.796 | 0.0 | 26.588 | 15.267 | 0.0 | 353.239 | 13.055 | 0.0 | 72.489 | 12.929 | 0.0 | 1.902 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.048 | 0.0 | 0.0 | 2.091 | 0.0 |
| 76 | 3151 | 3152 | SN | 1 | 0.0 | 24.751 | 9.544 | 0.0 | 26.108 | 9.324 | 0.0 | 175.14 | 3.891 | 0.0 | 12.971 | 3.359 | 0.0 | 1.897 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.052 | 0.0 |
| 77 | 3151 | 3152 | NS | 1 | 0.0 | 25.987 | 8.537 | 0.0 | 25.97 | 8.908 | 0.0 | 337.802 | 2.371 | 0.0 | 74.739 | 2.798 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.021 | 0.0 |
| 78 | 3151 | 3152 | NS | 1 | 0.0 | 25.987 | 8.548 | 0.0 | 25.97 | 8.908 | 0.0 | 337.786 | 2.36 | 0.0 | 74.701 | 2.789 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.021 | 0.0 |
| 79 | 3151 | 3152 | SN | 1 | 0.0 | 24.751 | 9.256 | 0.0 | 26.108 | 9.296 | 0.0 | 175.14 | 3.557 | 0.0 | 73.658 | 3.442 | 0.0 | 1.897 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.052 | 0.0 |
| 80 | 3151 | 3152 | SN | 1 | 0.0 | 24.751 | 9.274 | 0.0 | 26.114 | 9.265 | 0.0 | 175.123 | 3.555 | 0.0 | 73.658 | 3.411 | 0.0 | 1.897 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.052 | 0.0 |
| 81 | 3152 | 3153 | NS | 1 | 0.0 | 25.987 | 8.519 | 0.0 | 25.965 | 8.898 | 0.0 | 338.249 | 2.307 | 0.0 | 75.644 | 2.814 | 0.0 | 1.893 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.023 | 0.0 |
| 82 | 3152 | 3153 | NS | 1 | 0.0 | 25.987 | 8.519 | 0.0 | 25.965 | 8.898 | 0.0 | 338.249 | 2.307 | 0.0 | 75.644 | 2.814 | 0.0 | 1.893 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.023 | 0.0 |
| 83 | 3152 | 3153 | NS | 1 | 0.0 | 25.033 | 15.028 | 0.0 | 32.682 | 15.303 | 0.0 | 354.821 | 11.778 | 0.0 | 45.449 | 12.518 | 0.0 | 1.901 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.025 | 0.0 |
| 84 | 3152 | 3153 | NS | 1 | 0.0 | 25.033 | 15.028 | 0.0 | 32.682 | 15.303 | 0.0 | 354.821 | 11.778 | 0.0 | 45.449 | 12.518 | 0.0 | 1.901 | 0.0 | 0.0 | 1.904 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.025 | 0.0 |
| 85 | 3152 | 3153 | SN | 1 | 0.0 | 24.746 | 9.251 | 0.0 | 26.086 | 9.236 | 0.0 | 265.906 | 3.552 | 0.0 | 62.286 | 3.394 | 0.0 | 1.895 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.071 | 0.0 |
| 86 | 3152 | 3153 | SN | 1 | 0.0 | 33.051 | 15.812 | 0.0 | 26.588 | 15.218 | 0.0 | 353.343 | 13.033 | 0.0 | 73.123 | 12.893 | 0.0 | 1.902 | 0.0 | 0.0 | 1.93 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.084 | 0.0 |
| 87 | 3153 | 3154 | NS | 1 | 0.0 | 25.016 | 15.106 | 0.0 | 30.145 | 15.295 | 0.0 | 352.963 | 11.784 | 0.0 | 41.704 | 12.503 | 0.0 | 1.902 | 0.0 | 0.0 | 1.903 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.026 | 0.0 |
| 88 | 3153 | 3154 | NS | 1 | 0.0 | 25.998 | 8.549 | 0.0 | 25.97 | 8.874 | 0.0 | 355.489 | 2.317 | 0.0 | 71.121 | 2.796 | 0.0 | 1.894 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.022 | 0.0 |
| 89 | 3158 | 3159 | SN | 1 | 0.0 | 24.746 | 9.42 | 0.0 | 133.485 | 9.279 | 0.0 | 223.468 | 3.714 | 0.0 | 12.955 | 3.265 | 0.0 | 1.894 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.065 | 0.0 |
| 90 | 3158 | 3159 | SN | 1 | 0.0 | 33.14 | 15.927 | 0.0 | 26.604 | 14.817 | 0.0 | 182.635 | 13.397 | 0.0 | 13.793 | 11.941 | 0.0 | 1.902 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.092 | 0.0 |
| 91 | 3158 | 3159 | SN | 1 | 0.0 | 33.14 | 15.85 | 0.0 | 26.604 | 15.281 | 0.0 | 182.635 | 12.952 | 0.0 | 80.616 | 12.792 | 0.0 | 1.902 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.092 | 0.0 |
| 92 | 3158 | 3159 | SN | 1 | 0.0 | 24.746 | 9.222 | 0.0 | 133.485 | 9.324 | 0.0 | 223.468 | 3.514 | 0.0 | 88.571 | 3.37 | 0.0 | 1.894 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.065 | 0.0 |
| 93 | 3159 | 3160 | SN | 1 | 0.0 | 24.757 | 9.299 | 0.0 | 26.091 | 9.248 | 0.0 | 222.955 | 3.586 | 0.0 | 12.966 | 3.239 | 0.0 | 1.895 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.076 | 0.0 |
| 94 | 3159 | 3160 | SN | 1 | 0.0 | 33.167 | 15.823 | 0.0 | 26.566 | 15.291 | 0.0 | 181.168 | 13.061 | 0.0 | 81.873 | 12.791 | 0.0 | 1.904 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.09 | 0.0 |
| 95 | 3159 | 3160 | SN | 1 | 0.0 | 33.167 | 15.818 | 0.0 | 26.566 | 15.266 | 0.0 | 181.168 | 13.061 | 0.0 | 81.873 | 12.673 | 0.0 | 1.904 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.09 | 0.0 |
| 96 | 3159 | 3160 | SN | 1 | 0.0 | 24.757 | 9.239 | 0.0 | 26.091 | 9.304 | 0.0 | 222.955 | 3.518 | 0.0 | 61.283 | 3.4 | 0.0 | 1.895 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.076 | 0.0 |
| 97 | 3159 | 3160 | SN | 1 | 0.0 | 33.167 | 15.824 | 0.0 | 26.566 | 15.075 | 0.0 | 181.168 | 13.23 | 0.0 | 15.883 | 12.313 | 0.0 | 1.904 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.09 | 0.0 |
| 98 | 3159 | 3160 | NS | 1 | 0.0 | 31.797 | 15.058 | 0.0 | 33.448 | 15.224 | 0.0 | 357.27 | 11.855 | 0.0 | 53.644 | 12.266 | 0.0 | 1.903 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.025 | 0.0 |
| 99 | 3159 | 3160 | SN | 1 | 0.0 | 24.757 | 9.243 | 0.0 | 26.091 | 9.267 | 0.0 | 222.955 | 3.518 | 0.0 | 61.283 | 3.361 | 0.0 | 1.895 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.076 | 0.0 |
| 100 | 3159 | 3160 | NS | 1 | 0.0 | 25.998 | 8.621 | 0.0 | 25.981 | 8.969 | 0.0 | 355.053 | 2.476 | 0.0 | 71.695 | 2.676 | 0.0 | 1.896 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.021 | 0.0 |
| 101 | 3160 | 3161 | SN | 1 | 0.0 | 33.112 | 15.868 | 0.0 | 26.577 | 15.143 | 0.0 | 181.002 | 13.144 | 0.0 | 19.098 | 12.621 | 0.0 | 1.901 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.092 | 0.0 |
| 102 | 3160 | 3161 | NS | 1 | 0.0 | 24.988 | 15.153 | 0.0 | 33.537 | 15.251 | 0.0 | 348.959 | 11.751 | 0.0 | 54.72 | 12.431 | 0.0 | 1.901 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.026 | 0.0 |
| 103 | 3160 | 3161 | SN | 1 | 0.0 | 33.112 | 15.868 | 0.0 | 26.577 | 15.143 | 0.0 | 181.002 | 13.144 | 0.0 | 19.098 | 12.621 | 0.0 | 1.901 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.092 | 0.0 |
| 104 | 3160 | 3161 | NS | 1 | 0.0 | 25.992 | 8.569 | 0.0 | 25.981 | 8.915 | 0.0 | 349.202 | 2.417 | 0.0 | 73.167 | 2.739 | 0.0 | 1.895 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.021 | 0.0 |
| 105 | 3160 | 3161 | SN | 1 | 0.0 | 33.112 | 15.872 | 0.0 | 26.577 | 15.291 | 0.0 | 181.002 | 13.038 | 0.0 | 70.669 | 12.948 | 0.0 | 1.901 | 0.0 | 0.0 | 1.932 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.092 | 0.0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|------|----|---|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 106 | 3160 | 3161 | SN | 1 | 0.0 | 24.751 | 9.288 | 0.0 | 26.102 | 9.234 | 0.0 | 222.194 | 3.588 | 0.0 | 12.977 | 3.268 | 0.0 | 1.896 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.077 | 0.0 |
| 107 | 3160 | 3161 | SN | 1 | 0.0 | 24.751 | 9.288 | 0.0 | 26.102 | 9.234 | 0.0 | 222.194 | 3.588 | 0.0 | 12.977 | 3.268 | 0.0 | 1.896 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.077 | 0.0 |
| 108 | 3160 | 3161 | SN | 1 | 0.0 | 24.751 | 9.234 | 0.0 | 26.102 | 9.282 | 0.0 | 222.194 | 3.537 | 0.0 | 62.077 | 3.414 | 0.0 | 1.896 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.04 | 0.0 | 0.0 | 2.077 | 0.0 |
| 109 | 3160 | 3161 | NS | 1 | 0.0 | 24.988 | 15.153 | 0.0 | 33.537 | 15.251 | 0.0 | 348.959 | 11.751 | 0.0 | 54.72 | 12.431 | 0.0 | 1.901 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.026 | 0.0 |
| 110 | 3161 | 3162 | NS | 1 | 0.0 | 25.027 | 15.095 | 0.0 | 33.57 | 15.251 | 0.0 | 349.317 | 11.78 | 0.0 | 55.139 | 12.474 | 0.0 | 1.902 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 111 | 3161 | 3162 | SN | 1 | 0.0 | 30.388 | 15.797 | 0.0 | 26.615 | 15.296 | 0.0 | 188.166 | 13.141 | 0.0 | 77.905 | 12.946 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.076 | 0.0 |
| 112 | 3161 | 3162 | NS | 1 | 0.0 | 25.987 | 8.551 | 0.0 | 25.97 | 8.903 | 0.0 | 355.252 | 2.359 | 0.0 | 74.017 | 2.749 | 0.0 | 1.893 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.021 | 0.0 |
| 113 | 3161 | 3162 | SN | 1 | 0.0 | 30.388 | 15.816 | 0.0 | 26.615 | 15.098 | 0.0 | 188.166 | 13.307 | 0.0 | 17.218 | 12.495 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.076 | 0.0 |
| 114 | 3161 | 3162 | SN | 1 | 0.0 | 24.768 | 9.242 | 0.0 | 26.097 | 9.27 | 0.0 | 190.157 | 3.556 | 0.0 | 88.458 | 3.432 | 0.0 | 1.898 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.055 | 0.0 |
| 115 | 3161 | 3162 | SN | 1 | 0.0 | 24.768 | 9.251 | 0.0 | 26.097 | 9.231 | 0.0 | 190.157 | 3.556 | 0.0 | 88.452 | 3.394 | 0.0 | 1.898 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.055 | 0.0 |
| 116 | 3161 | 3162 | SN | 1 | 0.0 | 30.388 | 15.793 | 0.0 | 26.615 | 15.243 | 0.0 | 188.166 | 13.141 | 0.0 | 77.905 | 12.826 | 0.0 | 1.899 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.076 | 0.0 |
| 117 | 3161 | 3162 | NS | 1 | 0.0 | 25.987 | 8.551 | 0.0 | 25.97 | 8.903 | 0.0 | 355.252 | 2.359 | 0.0 | 74.017 | 2.749 | 0.0 | 1.893 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.027 | 0.0 | 0.0 | 2.021 | 0.0 |
| 118 | 3161 | 3162 | SN | 1 | 0.0 | 24.768 | 9.307 | 0.0 | 26.097 | 9.207 | 0.0 | 190.157 | 3.617 | 0.0 | 12.977 | 3.266 | 0.0 | 1.898 | 0.0 | 0.0 | 1.925 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.055 | 0.0 |
| 119 | 3161 | 3162 | NS | 1 | 0.0 | 25.027 | 15.095 | 0.0 | 33.57 | 15.251 | 0.0 | 349.317 | 11.78 | 0.0 | 55.139 | 12.474 | 0.0 | 1.902 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 120 | 3162 | 3163 | NS | 1 | 0.0 | 25.022 | 15.038 | 0.0 | 30.046 | 15.263 | 0.0 | 129.01 | 11.855 | 0.0 | 37.728 | 12.478 | 0.0 | 1.902 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 121 | 3162 | 3163 | NS | 1 | 0.0 | 25.022 | 15.053 | 0.0 | 30.057 | 15.261 | 0.0 | 348.248 | 11.815 | 0.0 | 55.679 | 12.481 | 0.0 | 1.902 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.025 | 0.0 |
| 122 | 3162 | 3163 | SN | 1 | 0.0 | 30.344 | 15.811 | 0.0 | 26.588 | 15.264 | 0.0 | 213.188 | 13.128 | 0.0 | 67.89 | 12.847 | 0.0 | 1.901 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.077 | 0.0 |
| 123 | 3162 | 3163 | SN | 1 | 0.0 | 24.751 | 9.359 | 0.0 | 26.102 | 9.233 | 0.0 | 232.788 | 3.656 | 0.0 | 12.971 | 3.284 | 0.0 | 1.898 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.064 | 0.0 |
| 124 | 3162 | 3163 | NS | 1 | 0.0 | 25.981 | 8.548 | 0.0 | 25.976 | 8.898 | 0.0 | 333.396 | 2.401 | 0.0 | 70.195 | 2.761 | 0.0 | 1.894 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.02 | 0.0 |
| 125 | 3162 | 3163 | SN | 1 | 0.0 | 30.344 | 15.809 | 0.0 | 26.588 | 14.975 | 0.0 | 213.188 | 13.349 | 0.0 | 15.045 | 12.348 | 0.0 | 1.901 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.077 | 0.0 |
| 126 | 3162 | 3163 | SN | 1 | 0.0 | 30.344 | 15.816 | 0.0 | 26.588 | 15.317 | 0.0 | 213.188 | 13.128 | 0.0 | 67.879 | 12.968 | 0.0 | 1.901 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.077 | 0.0 |
| 127 | 3162 | 3163 | NS | 1 | 0.0 | 25.987 | 8.551 | 0.0 | 25.97 | 8.901 | 0.0 | 355.213 | 2.394 | 0.0 | 75.142 | 2.771 | 0.0 | 1.894 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.021 | 0.0 |
| 128 | 3162 | 3163 | SN | 1 | 0.0 | 24.751 | 9.272 | 0.0 | 26.102 | 9.292 | 0.0 | 232.788 | 3.563 | 0.0 | 90.482 | 3.436 | 0.0 | 1.898 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.064 | 0.0 |
| 129 | 3162 | 3163 | SN | 1 | 0.0 | 24.751 | 9.281 | 0.0 | 26.102 | 9.254 | 0.0 | 232.788 | 3.563 | 0.0 | 90.482 | 3.397 | 0.0 | 1.898 | 0.0 | 0.0 | 1.918 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.064 | 0.0 |
| 130 | 3163 | 3164 | SN | 1 | 0.0 | 30.465 | 15.821 | 0.0 | 98.76 | 15.253 | 0.0 | 312.643 | 13.0 | 0.0 | 87.959 | 12.79 | 0.0 | 1.901 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.073 | 0.0 |
| 131 | 3163 | 3164 | NS | 1 | 0.0 | 25.011 | 15.05 | 0.0 | 30.101 | 15.251 | 0.0 | 349.808 | 11.851 | 0.0 | 55.889 | 12.402 | 0.0 | 1.902 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.026 | 0.0 |
| 132 | 3163 | 3164 | NS | 1 | 0.0 | 25.011 | 15.05 | 0.0 | 30.101 | 15.251 | 0.0 | 349.808 | 11.851 | 0.0 | 55.889 | 12.402 | 0.0 | 1.902 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.026 | 0.0 |
| 133 | 3163 | 3164 | SN | 1 | 0.0 | 30.305 | 15.826 | 0.0 | 98.76 | 15.295 | 0.0 | 312.643 | 13.0 | 0.0 | 88.135 | 12.91 | 0.0 | 1.901 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.073 | 0.0 |
| 134 | 3163 | 3164 | SN | 1 | 0.0 | 30.465 | 15.837 | 0.0 | 98.76 | 14.813 | 0.0 | 312.643 | 13.342 | 0.0 | 14.488 | 12.179 | 0.0 | 1.901 | 0.0 | 0.0 | 1.917 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.073 | 0.0 |
| 135 | 3163 | 3164 | NS | 1 | 0.0 | 25.998 | 8.575 | 0.0 | 25.97 | 8.925 | 0.0 | 341.58 | 2.416 | 0.0 | 73.984 | 2.77 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.021 | 0.0 |
| 136 | 3163 | 3164 | SN | 1 | 0.0 | 24.762 | 9.405 | 0.0 | 248.357 | 9.223 | 0.0 | 175.019 | 3.697 | 0.0 | 12.971 | 3.28 | 0.0 | 1.896 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.067 | 0.0 |
| 137 | 3163 | 3164 | SN | 1 | 0.0 | 24.762 | 9.266 | 0.0 | 248.357 | 9.238 | 0.0 | 175.019 | 3.56 | 0.0 | 136.824 | 3.369 | 0.0 | 1.896 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.067 | 0.0 |
| 138 | 3163 | 3164 | NS | 1 | 0.0 | 25.998 | 8.575 | 0.0 | 25.97 | 8.925 | 0.0 | 341.58 | 2.416 | 0.0 | 73.984 | 2.77 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.021 | 0.0 |
| 139 | 3163 | 3164 | SN | 1 | 0.0 | 24.762 | 9.259 | 0.0 | 248.357 | 9.276 | 0.0 | 175.019 | 3.56 | 0.0 | 137.001 | 3.407 | 0.0 | 1.896 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.067 | 0.0 |
| 140 | 3164 | 3165 | NS | 1 | 0.0 | 25.981 | 8.6 | 0.0 | 25.976 | 8.957 | 0.0 | 318.759 | 2.462 | 0.0 | 73.68 | 2.703 | 0.0 | 1.896 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.03 | 0.0 | 0.0 | 2.021 | 0.0 |
| 141 | 3164 | 3165 | NS | 1 | 0.0 | 25.981 | 8.604 | 0.0 | 25.976 | 8.96 | 0.0 | 336.898 | 2.463 | 0.0 | 73.719 | 2.699 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.022 | 0.0 |
| 142 | 3164 | 3165 | SN | 1 | 0.0 | 30.735 | 15.805 | 0.0 | 26.549 | 15.019 | 0.0 | 203.109 | 13.15 | 0.0 | 15.155 | 12.33 | 0.0 | 1.899 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.063 | 0.0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|------|----|---|-----|--------|--------|-----|--------|--------|-----|---------|--------|-----|--------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 143 | 3164 | 3165 | SN | 1 | 0.0 | 24.768 | 9.245 | 0.0 | 26.086 | 9.324 | 0.0 | 181.286 | 3.535 | 0.0 | 67.465 | 3.402 | 0.0 | 1.895 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.065 | 0.0 |
| 144 | 3164 | 3165 | SN | 1 | 0.0 | 24.768 | 9.251 | 0.0 | 26.086 | 9.285 | 0.0 | 181.286 | 3.534 | 0.0 | 67.459 | 3.364 | 0.0 | 1.895 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.065 | 0.0 |
| 145 | 3164 | 3165 | NS | 1 | 0.0 | 25.022 | 15.025 | 0.0 | 32.588 | 15.242 | 0.0 | 348.893 | 11.924 | 0.0 | 42.951 | 12.348 | 0.0 | 1.901 | 0.0 | 0.0 | 1.905 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.027 | 0.0 |
| 146 | 3164 | 3165 | NS | 1 | 0.0 | 24.999 | 15.07 | 0.0 | 30.095 | 15.251 | 0.0 | 349.902 | 11.799 | 0.0 | 56.805 | 12.309 | 0.0 | 1.902 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.026 | 0.0 |
| 147 | 3164 | 3165 | SN | 1 | 0.0 | 30.735 | 15.802 | 0.0 | 26.549 | 15.294 | 0.0 | 203.109 | 12.97 | 0.0 | 65.535 | 12.79 | 0.0 | 1.899 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.063 | 0.0 |
| 148 | 3164 | 3165 | SN | 1 | 0.0 | 24.768 | 9.326 | 0.0 | 26.086 | 9.27 | 0.0 | 181.286 | 3.616 | 0.0 | 12.966 | 3.243 | 0.0 | 1.895 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.065 | 0.0 |
| 149 | 3164 | 3165 | SN | 1 | 0.0 | 29.268 | 15.807 | 0.0 | 26.549 | 15.336 | 0.0 | 203.109 | 12.969 | 0.0 | 65.535 | 12.91 | 0.0 | 1.899 | 0.0 | 0.0 | 1.916 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.063 | 0.0 |
| 150 | 3165 | 3166 | SN | 1 | 0.0 | 24.768 | 9.256 | 0.0 | 26.091 | 9.312 | 0.0 | 165.522 | 3.513 | 0.0 | 73.907 | 3.376 | 0.0 | 1.897 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.046 | 0.0 |
| 151 | 3165 | 3166 | NS | 1 | 0.0 | 25.044 | 15.09 | 0.0 | 32.654 | 15.234 | 0.0 | 354.75 | 11.904 | 0.0 | 45.411 | 12.298 | 0.0 | 1.901 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.027 | 0.0 |
| 152 | 3165 | 3166 | NS | 1 | 0.0 | 25.044 | 15.07 | 0.0 | 32.66 | 15.223 | 0.0 | 354.739 | 11.919 | 0.0 | 45.438 | 12.305 | 0.0 | 1.901 | 0.0 | 0.0 | 1.909 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.027 | 0.0 |
| 153 | 3165 | 3166 | SN | 1 | 0.0 | 32.345 | 15.787 | 0.0 | 26.582 | 15.247 | 0.0 | 189.079 | 12.805 | 0.0 | 73.03 | 12.811 | 0.0 | 1.902 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.083 | 0.0 |
| 154 | 3165 | 3166 | NS | 1 | 0.0 | 25.998 | 8.657 | 0.0 | 25.987 | 8.974 | 0.0 | 337.493 | 2.484 | 0.0 | 70.509 | 2.672 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.023 | 0.0 |
| 155 | 3165 | 3166 | SN | 1 | 0.0 | 33.178 | 15.975 | 0.0 | 26.582 | 14.748 | 0.0 | 189.079 | 13.518 | 0.0 | 13.517 | 11.84 | 0.0 | 1.902 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.083 | 0.0 |
| 156 | 3165 | 3166 | SN | 1 | 0.0 | 33.173 | 15.801 | 0.0 | 26.582 | 15.192 | 0.0 | 188.991 | 12.815 | 0.0 | 72.974 | 12.696 | 0.0 | 1.902 | 0.0 | 0.0 | 1.91 | 0.0 | 0.0 | 2.046 | 0.0 | 0.0 | 2.083 | 0.0 |
| 157 | 3165 | 3166 | SN | 1 | 0.0 | 24.768 | 9.509 | 0.0 | 26.091 | 9.312 | 0.0 | 165.522 | 3.797 | 0.0 | 12.949 | 3.275 | 0.0 | 1.897 | 0.0 | 0.0 | 1.923 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.046 | 0.0 |
| 158 | 3165 | 3166 | NS | 1 | 0.0 | 25.998 | 8.657 | 0.0 | 25.987 | 8.974 | 0.0 | 337.455 | 2.488 | 0.0 | 70.465 | 2.672 | 0.0 | 1.895 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.022 | 0.0 |
| 159 | 3165 | 3166 | SN | 1 | 0.0 | 24.768 | 9.267 | 0.0 | 26.08 | 9.287 | 0.0 | 165.599 | 3.511 | 0.0 | 73.829 | 3.332 | 0.0 | 1.897 | 0.0 | 0.0 | 1.922 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.046 | 0.0 |
| 160 | 3166 | 3167 | SN | 1 | 0.0 | 24.746 | 9.241 | 0.0 | 26.091 | 9.324 | 0.0 | 327.936 | 3.481 | 0.0 | 63.02 | 3.314 | 0.0 | 1.897 | 0.0 | 0.0 | 1.91 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.053 | 0.0 |
| 161 | 3166 | 3167 | SN | 1 | 0.0 | 33.294 | 15.763 | 0.0 | 26.527 | 15.218 | 0.0 | 353.415 | 12.757 | 0.0 | 74.1 | 12.658 | 0.0 | 1.902 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.083 | 0.0 |
| 162 | 3166 | 3167 | SN | 1 | 0.0 | 33.294 | 15.763 | 0.0 | 26.527 | 15.22 | 0.0 | 353.415 | 12.757 | 0.0 | 74.072 | 12.708 | 0.0 | 1.902 | 0.0 | 0.0 | 1.912 | 0.0 | 0.0 | 2.045 | 0.0 | 0.0 | 2.083 | 0.0 |
| 163 | 3166 | 3167 | NS | 1 | 0.0 | 26.003 | 8.653 | 0.0 | 25.981 | 8.969 | 0.0 | 338.436 | 2.485 | 0.0 | 74.723 | 2.686 | 0.0 | 1.895 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.023 | 0.0 |
| 164 | 3166 | 3167 | NS | 1 | 0.0 | 25.022 | 15.048 | 0.0 | 32.682 | 15.191 | 0.0 | 354.695 | 11.984 | 0.0 | 46.083 | 12.326 | 0.0 | 1.901 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.027 | 0.0 |
| 165 | 3166 | 3167 | SN | 1 | 0.0 | 24.746 | 9.244 | 0.0 | 26.091 | 9.322 | 0.0 | 333.754 | 3.481 | 0.0 | 63.036 | 3.319 | 0.0 | 1.897 | 0.0 | 0.0 | 1.91 | 0.0 | 0.0 | 2.038 | 0.0 | 0.0 | 2.053 | 0.0 |
| 166 | 3166 | 3167 | NS | 1 | 0.0 | 26.003 | 8.65 | 0.0 | 25.981 | 8.973 | 0.0 | 338.469 | 2.484 | 0.0 | 74.778 | 2.685 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.029 | 0.0 | 0.0 | 2.023 | 0.0 |
| 167 | 3166 | 3167 | NS | 1 | 0.0 | 25.022 | 15.068 | 0.0 | 32.682 | 15.201 | 0.0 | 354.706 | 11.969 | 0.0 | 46.067 | 12.326 | 0.0 | 1.901 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.031 | 0.0 | 0.0 | 2.027 | 0.0 |
| 168 | 3167 | 3168 | NS | 1 | 0.0 | 25.049 | 15.133 | 0.0 | 34.199 | 15.216 | 0.0 | 353.079 | 11.888 | 0.0 | 45.592 | 12.239 | 0.0 | 1.902 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.027 | 0.0 |
| 169 | 3167 | 3168 | NS | 1 | 0.0 | 25.992 | 8.667 | 0.0 | 25.976 | 8.938 | 0.0 | 355.582 | 2.492 | 0.0 | 66.715 | 2.661 | 0.0 | 1.893 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.023 | 0.0 |
| 170 | 3167 | 3168 | NS | 1 | 0.0 | 25.992 | 8.672 | 0.0 | 25.976 | 8.941 | 0.0 | 355.582 | 2.494 | 0.0 | 66.709 | 2.663 | 0.0 | 1.893 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.023 | 0.0 |
| 171 | 3167 | 3168 | SN | 1 | 0.0 | 33.051 | 15.812 | 0.0 | 46.436 | 15.218 | 0.0 | 353.465 | 12.75 | 0.0 | 81.382 | 12.605 | 0.0 | 1.901 | 0.0 | 0.0 | 1.911 | 0.0 | 0.0 | 2.047 | 0.0 | 0.0 | 2.083 | 0.0 |
| 172 | 3167 | 3168 | NS | 1 | 0.0 | 25.049 | 15.133 | 0.0 | 34.199 | 15.206 | 0.0 | 353.084 | 11.895 | 0.0 | 45.598 | 12.239 | 0.0 | 1.902 | 0.0 | 0.0 | 1.908 | 0.0 | 0.0 | 2.032 | 0.0 | 0.0 | 2.027 | 0.0 |
| 173 | 3167 | 3168 | SN | 1 | 0.0 | 24.757 | 9.235 | 0.0 | 26.064 | 9.333 | 0.0 | 268.751 | 3.457 | 0.0 | 68.281 | 3.296 | 0.0 | 1.895 | 0.0 | 0.0 | 1.906 | 0.0 | 0.0 | 2.039 | 0.0 | 0.0 | 2.062 | 0.0 |
| 174 | 3168 | 3169 | NS | 1 | 0.0 | 25.987 | 8.659 | 0.0 | 25.992 | 8.94 | 0.0 | 355.605 | 2.49 | 0.0 | 67.123 | 2.64 | 0.0 | 1.894 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.028 | 0.0 | 0.0 | 2.024 | 0.0 |
| 175 | 3168 | 3169 | NS | 1 | 0.0 | 25.022 | 15.144 | 0.0 | 34.187 | 15.235 | 0.0 | 353.244 | 11.931 | 0.0 | 45.819 | 12.162 | 0.0 | 1.902 | 0.0 | 0.0 | 1.91 | 0.0 | 0.0 | 2.033 | 0.0 | 0.0 | 2.027 | 0.0 |

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