

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P731785

Luminaire Tested: **NHRS50UBZ750**

Issue Date: 09/15/2023

Test Information

Test Method: LM-79-2019
Report Number: P731785
Test Lab: INNOVATION CENTER
Issue Date: 09/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NHRS50UBZ750
Description: LUMARK NIGHT HARRIER 2 PANEL FLOOD SELECTABLE CCT NEMA 6 AT 5000K
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

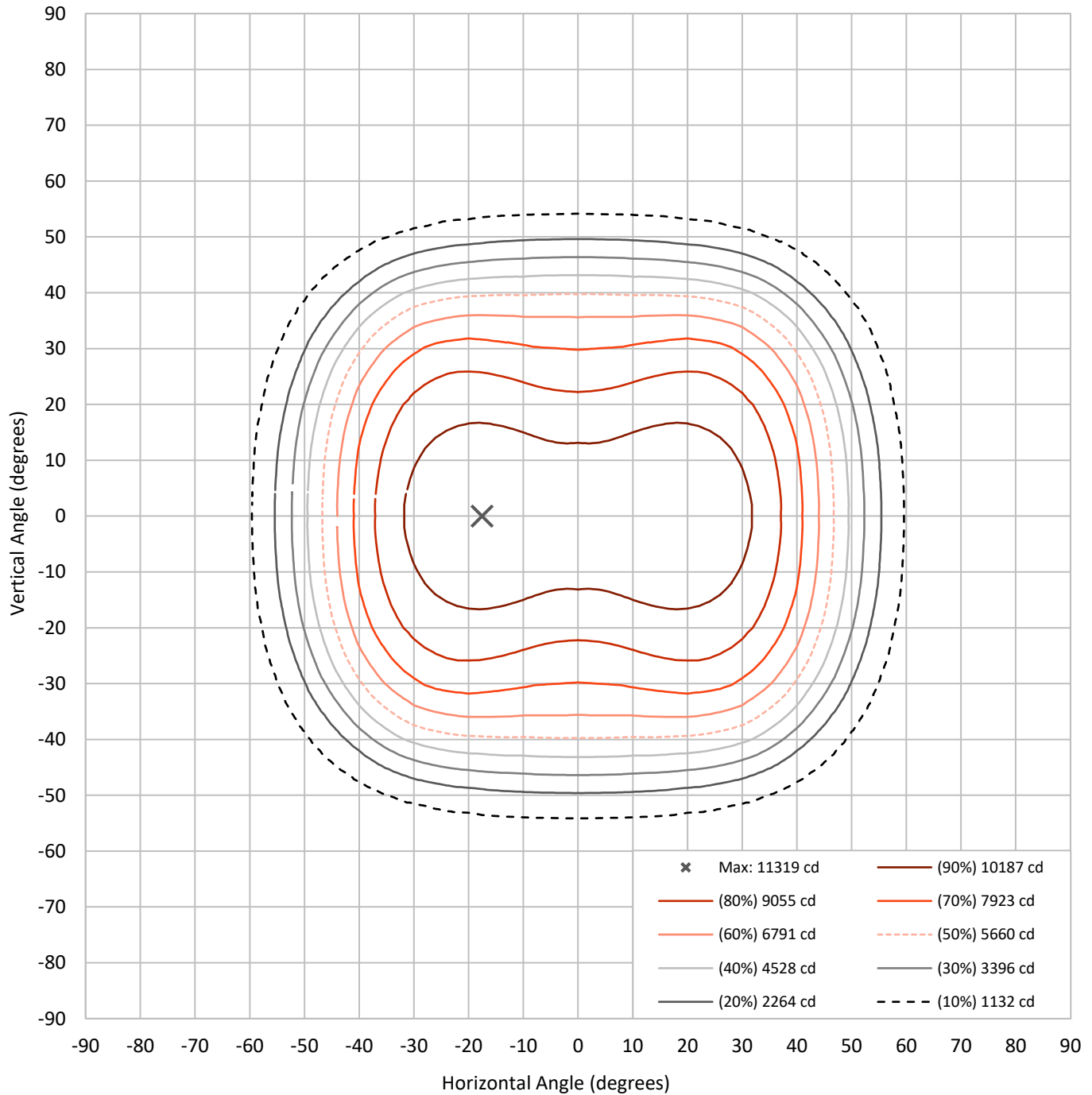
Summary

| | | | |
|-----------------------------------|---------------------------------------|----------------------|-------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 6H x 6V |
| Luminaire Lumens: | 20634.1 lumens | Max Intensity: | 11319 candela |
| Efficiency: | N/A | Max Intensity Angle: | -17.5°H x 0°V |
| Efficacy: | 133.5 lumens/watt | | |
| Luminous Opening: | Rectangular (W 1' x L: 0.33' x H: 0') | | |
| Beam Angle (50%): | 93.4°H x 78.9°V | Field Angle (10%): | 119.2°H x 106.9°V |
| Beam Lumens: | 16523 lumens | Field Lumens: | 19882.4 lumens |
| Beam Efficiency: | 80.1% | Field Efficiency: | 96.4% |
| Input Watts (W): | 154.6 | | |
| Input Voltage (V): | 120 | | |
| Input Current (A _{in}): | NR | | |
| Voltage Rise (V): | NR | | |
| Power Factor: | NR | | |
| Total Harmonic Distortion (THDi): | NR | | |
| Frequency (hertz): | 60 | | |
| Stabilization Time: | NR | | |
| Operation Time: | NR | | |
| Ambient Temperature (°C): | NR | | |
| Test Distance: | 28.75 FT | | |



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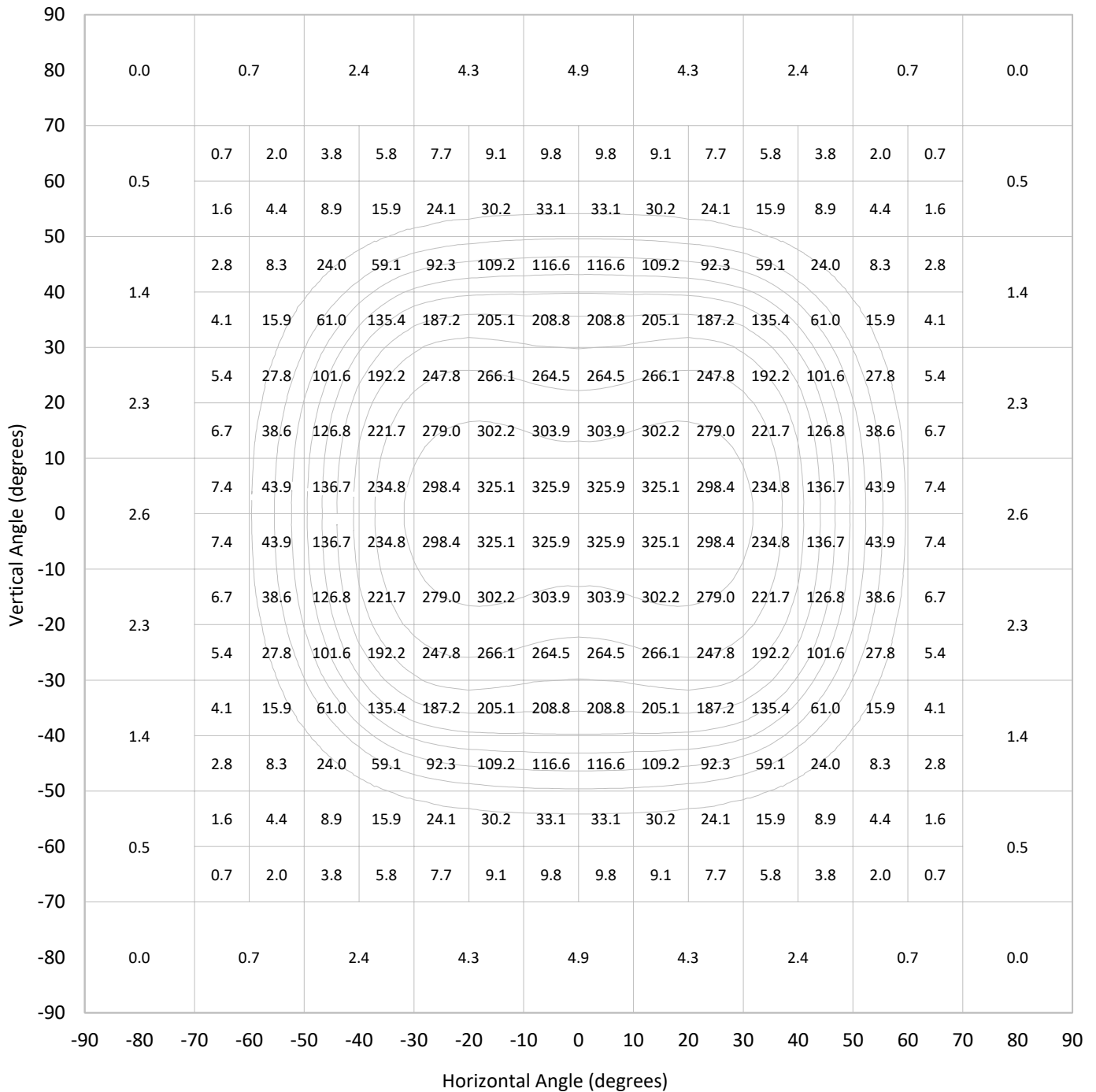
Iso-Candela Plot





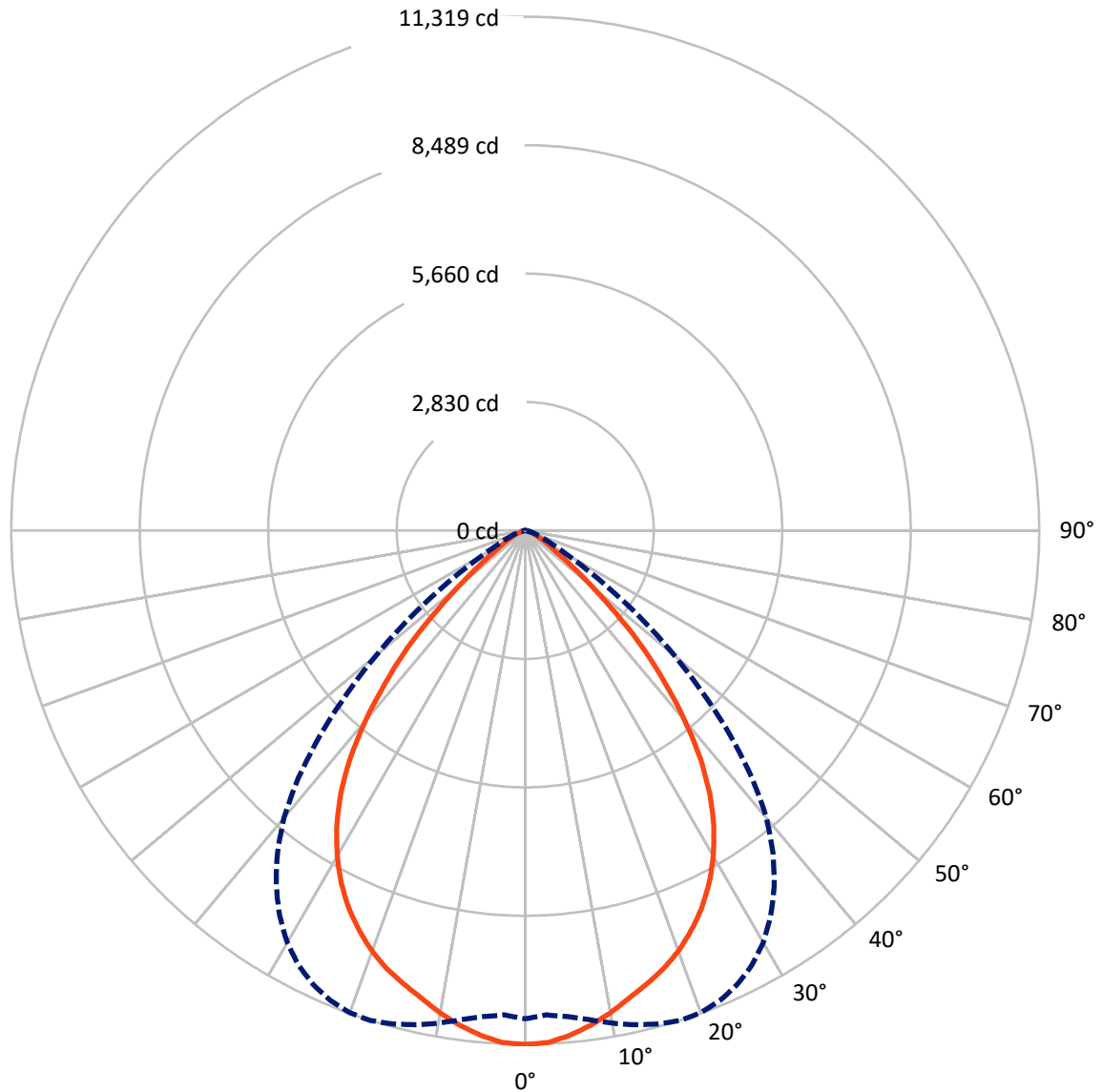
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Lumen Table



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CATALOG NUMBER: NHRS50UBZ750

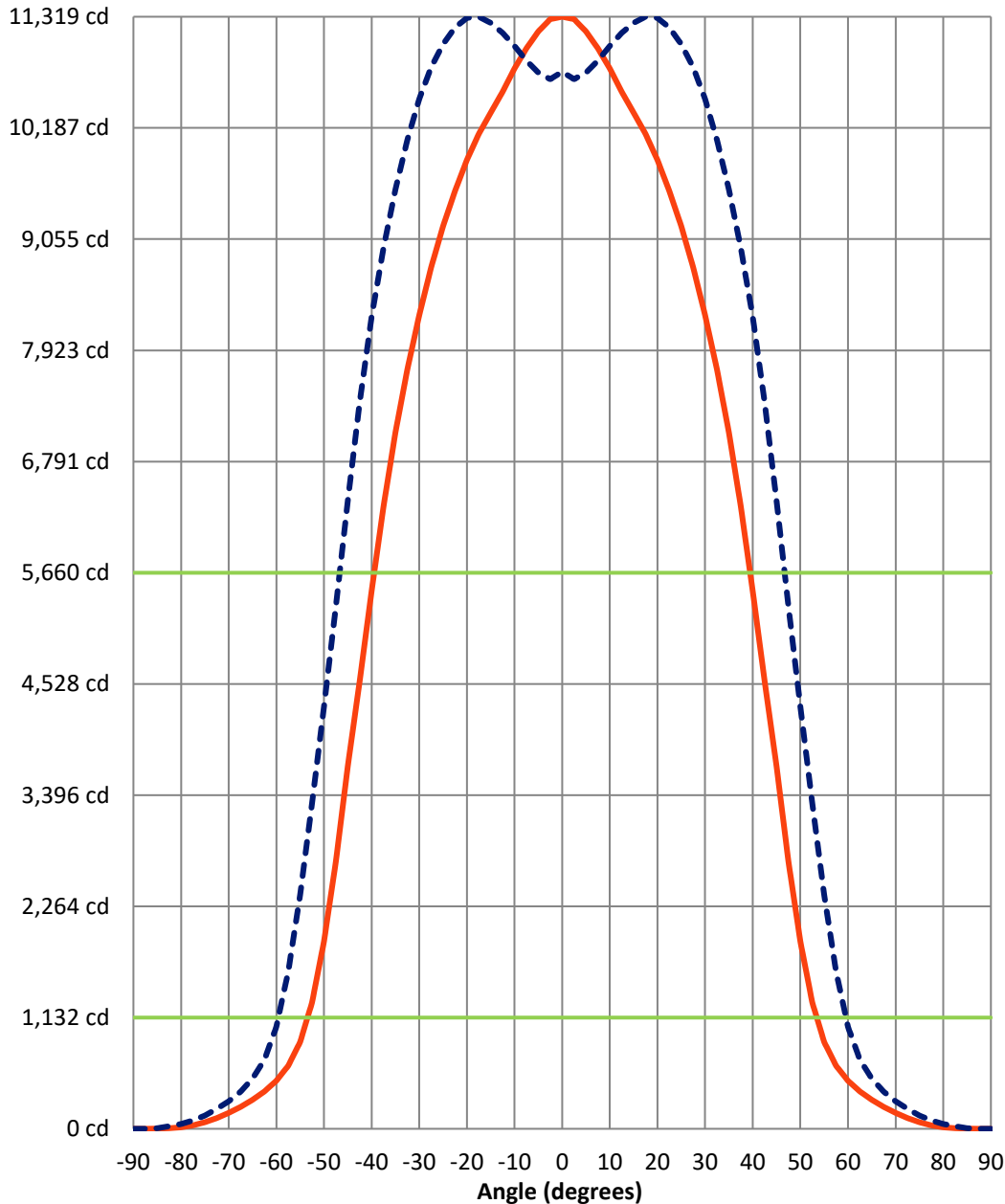
Luminous Intensity Polar Plot



— Vertical Distribution Through -17.5-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
H Angle: 93.4°
V Angle: 78.9°
Lumens: 16523
Efficiency: 80.1%

Field:
H Angle: 119.2°
V Angle: 106.9°
Lumens: 19882.4
Efficiency: 96.4%

Spill:
Lumens: 751.6
Efficiency: 3.6%

— Vertical Distribution through -17.5-Deg

- - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 3 |
| 77.5° | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 6 |
| 75° | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 5 | 6 | 9 | 12 |
| 72.5° | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 8 | 12 | 16 | 18 |
| 70° | 0 | 0 | 0 | 0 | 3 | 5 | 8 | 13 | 18 | 22 | 29 |
| 67.5° | 0 | 0 | 0 | 1 | 4 | 6 | 12 | 19 | 24 | 32 | 40 |
| 65° | 0 | 0 | 0 | 2 | 5 | 9 | 17 | 24 | 33 | 42 | 53 |
| 62.5° | 0 | 0 | 0 | 3 | 6 | 13 | 21 | 31 | 41 | 53 | 69 |
| 60° | 0 | 0 | 0 | 3 | 7 | 16 | 26 | 38 | 50 | 67 | 84 |
| 57.5° | 0 | 0 | 1 | 4 | 10 | 20 | 31 | 45 | 61 | 80 | 102 |
| 55° | 0 | 0 | 1 | 5 | 13 | 24 | 37 | 53 | 73 | 95 | 122 |
| 52.5° | 0 | 0 | 1 | 6 | 15 | 27 | 42 | 61 | 85 | 112 | 143 |
| 50° | 0 | 0 | 2 | 6 | 18 | 31 | 48 | 71 | 97 | 129 | 163 |
| 47.5° | 0 | 0 | 2 | 7 | 21 | 36 | 53 | 80 | 112 | 146 | 185 |
| 45° | 0 | 0 | 3 | 9 | 23 | 39 | 60 | 88 | 125 | 164 | 206 |
| 42.5° | 0 | 0 | 3 | 11 | 26 | 43 | 67 | 98 | 137 | 182 | 229 |
| 40° | 0 | 0 | 4 | 13 | 28 | 47 | 74 | 108 | 150 | 199 | 253 |
| 37.5° | 0 | 0 | 4 | 14 | 31 | 50 | 80 | 118 | 164 | 216 | 275 |
| 35° | 0 | 0 | 4 | 16 | 33 | 54 | 86 | 127 | 177 | 234 | 298 |
| 32.5° | 0 | 0 | 4 | 17 | 35 | 58 | 92 | 135 | 190 | 250 | 322 |
| 30° | 0 | 0 | 5 | 19 | 38 | 63 | 98 | 144 | 201 | 265 | 345 |
| 27.5° | 0 | 0 | 5 | 20 | 39 | 67 | 104 | 153 | 213 | 280 | 365 |
| 25° | 0 | 0 | 5 | 21 | 41 | 70 | 110 | 162 | 224 | 295 | 385 |
| 22.5° | 0 | 0 | 5 | 22 | 43 | 73 | 115 | 170 | 235 | 310 | 408 |
| 20° | 0 | 0 | 6 | 23 | 44 | 76 | 119 | 177 | 244 | 324 | 429 |
| 17.5° | 0 | 0 | 6 | 24 | 45 | 78 | 123 | 183 | 252 | 336 | 448 |
| 15° | 0 | 0 | 6 | 24 | 46 | 81 | 126 | 189 | 259 | 346 | 463 |
| 12.5° | 0 | 0 | 6 | 25 | 47 | 82 | 129 | 194 | 265 | 354 | 476 |
| 10° | 0 | 0 | 6 | 25 | 48 | 83 | 131 | 197 | 270 | 362 | 488 |
| 7.5° | 0 | 0 | 6 | 26 | 49 | 84 | 133 | 200 | 274 | 369 | 497 |
| 5° | 0 | 0 | 6 | 26 | 49 | 86 | 136 | 204 | 280 | 377 | 505 |
| 2.5° | 0 | 0 | 6 | 26 | 49 | 85 | 135 | 203 | 280 | 378 | 511 |
| 0° | 0 | 0 | 6 | 26 | 49 | 85 | 135 | 203 | 280 | 378 | 511 |
| -2.5° | 0 | 0 | 6 | 26 | 49 | 85 | 135 | 203 | 280 | 378 | 511 |
| -5° | 0 | 0 | 6 | 26 | 49 | 86 | 136 | 204 | 280 | 377 | 505 |
| -7.5° | 0 | 0 | 6 | 26 | 49 | 84 | 133 | 200 | 274 | 369 | 497 |
| -10° | 0 | 0 | 6 | 25 | 48 | 83 | 131 | 197 | 270 | 362 | 488 |
| -12.5° | 0 | 0 | 6 | 25 | 47 | 82 | 129 | 194 | 265 | 354 | 476 |
| -15° | 0 | 0 | 6 | 24 | 46 | 81 | 126 | 189 | 259 | 346 | 463 |
| -17.5° | 0 | 0 | 6 | 24 | 45 | 78 | 123 | 183 | 252 | 336 | 448 |
| -20° | 0 | 0 | 6 | 23 | 44 | 76 | 119 | 177 | 244 | 324 | 429 |



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CANDELA DISTRIBUTION (continued):

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 0 | 0 | 5 | 22 | 43 | 73 | 115 | 170 | 235 | 310 | 408 |
| -25° | 0 | 0 | 5 | 21 | 41 | 70 | 110 | 162 | 224 | 295 | 385 |
| -27.5° | 0 | 0 | 5 | 20 | 39 | 67 | 104 | 153 | 213 | 280 | 365 |
| -30° | 0 | 0 | 5 | 19 | 38 | 63 | 98 | 144 | 201 | 265 | 345 |
| -32.5° | 0 | 0 | 4 | 17 | 35 | 58 | 92 | 135 | 190 | 250 | 322 |
| -35° | 0 | 0 | 4 | 16 | 33 | 54 | 86 | 127 | 177 | 234 | 298 |
| -37.5° | 0 | 0 | 4 | 14 | 31 | 50 | 80 | 118 | 164 | 216 | 275 |
| -40° | 0 | 0 | 4 | 13 | 28 | 47 | 74 | 108 | 150 | 199 | 253 |
| -42.5° | 0 | 0 | 3 | 11 | 26 | 43 | 67 | 98 | 137 | 182 | 229 |
| -45° | 0 | 0 | 3 | 9 | 23 | 39 | 60 | 88 | 125 | 164 | 206 |
| -47.5° | 0 | 0 | 2 | 7 | 21 | 36 | 53 | 80 | 112 | 146 | 185 |
| -50° | 0 | 0 | 2 | 6 | 18 | 31 | 48 | 71 | 97 | 129 | 163 |
| -52.5° | 0 | 0 | 1 | 6 | 15 | 27 | 42 | 61 | 85 | 112 | 143 |
| -55° | 0 | 0 | 1 | 5 | 13 | 24 | 37 | 53 | 73 | 95 | 122 |
| -57.5° | 0 | 0 | 1 | 4 | 10 | 20 | 31 | 45 | 61 | 80 | 102 |
| -60° | 0 | 0 | 0 | 3 | 7 | 16 | 26 | 38 | 50 | 67 | 84 |
| -62.5° | 0 | 0 | 0 | 3 | 6 | 13 | 21 | 31 | 41 | 53 | 69 |
| -65° | 0 | 0 | 0 | 2 | 5 | 9 | 17 | 24 | 33 | 42 | 53 |
| -67.5° | 0 | 0 | 0 | 1 | 4 | 6 | 12 | 19 | 24 | 32 | 40 |
| -70° | 0 | 0 | 0 | 0 | 3 | 5 | 8 | 13 | 18 | 22 | 29 |
| -72.5° | 0 | 0 | 0 | 0 | 1 | 3 | 5 | 8 | 12 | 16 | 18 |
| -75° | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 5 | 6 | 9 | 12 |
| -77.5° | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 6 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 3 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 82.5° | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 4 |
| 80° | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 7 | 9 | 10 |
| 77.5° | 8 | 9 | 10 | 11 | 12 | 15 | 17 | 18 | 20 | 21 | 23 |
| 75° | 14 | 16 | 19 | 23 | 26 | 28 | 30 | 35 | 39 | 43 | 47 |
| 72.5° | 23 | 28 | 33 | 37 | 43 | 49 | 55 | 59 | 65 | 72 | 78 |
| 70° | 36 | 42 | 50 | 58 | 66 | 74 | 83 | 92 | 99 | 108 | 116 |
| 67.5° | 49 | 60 | 70 | 81 | 94 | 105 | 116 | 129 | 141 | 151 | 161 |
| 65° | 67 | 79 | 94 | 109 | 125 | 140 | 155 | 170 | 187 | 202 | 215 |
| 62.5° | 84 | 102 | 120 | 139 | 159 | 177 | 198 | 219 | 242 | 258 | 274 |
| 60° | 105 | 127 | 149 | 172 | 195 | 220 | 244 | 271 | 295 | 316 | 340 |
| 57.5° | 127 | 153 | 180 | 207 | 236 | 265 | 297 | 326 | 359 | 388 | 418 |
| 55° | 150 | 181 | 212 | 246 | 280 | 318 | 355 | 396 | 432 | 484 | 527 |
| 52.5° | 175 | 210 | 249 | 288 | 331 | 376 | 425 | 481 | 545 | 612 | 699 |
| 50° | 200 | 243 | 286 | 335 | 387 | 444 | 517 | 595 | 703 | 812 | 958 |
| 47.5° | 227 | 274 | 330 | 385 | 452 | 535 | 630 | 773 | 910 | 1134 | 1352 |
| 45° | 255 | 310 | 371 | 447 | 532 | 642 | 807 | 983 | 1268 | 1550 | 1927 |
| 42.5° | 285 | 347 | 423 | 508 | 634 | 800 | 1004 | 1339 | 1694 | 2129 | 2607 |
| 40° | 314 | 383 | 476 | 599 | 754 | 986 | 1327 | 1726 | 2241 | 2793 | 3395 |
| 37.5° | 345 | 430 | 533 | 685 | 926 | 1244 | 1684 | 2217 | 2836 | 3539 | 4157 |
| 35° | 375 | 475 | 608 | 800 | 1095 | 1553 | 2099 | 2725 | 3457 | 4235 | 4930 |
| 32.5° | 410 | 520 | 679 | 936 | 1327 | 1870 | 2528 | 3274 | 4074 | 4896 | 5657 |
| 30° | 446 | 576 | 760 | 1062 | 1564 | 2213 | 2981 | 3796 | 4662 | 5491 | 6245 |
| 27.5° | 477 | 633 | 868 | 1242 | 1798 | 2529 | 3387 | 4303 | 5197 | 6043 | 6783 |
| 25° | 506 | 680 | 968 | 1427 | 2066 | 2860 | 3766 | 4718 | 5688 | 6521 | 7235 |
| 22.5° | 539 | 724 | 1051 | 1593 | 2307 | 3176 | 4111 | 5083 | 6061 | 6952 | 7650 |
| 20° | 573 | 792 | 1157 | 1739 | 2518 | 3458 | 4406 | 5405 | 6379 | 7250 | 7976 |
| 17.5° | 604 | 852 | 1269 | 1903 | 2726 | 3692 | 4654 | 5721 | 6666 | 7530 | 8228 |
| 15° | 629 | 902 | 1362 | 2040 | 2905 | 3875 | 4867 | 5903 | 6902 | 7772 | 8461 |
| 12.5° | 650 | 942 | 1437 | 2150 | 3047 | 4022 | 5034 | 6080 | 7080 | 7946 | 8625 |
| 10° | 667 | 973 | 1494 | 2235 | 3152 | 4133 | 5157 | 6214 | 7213 | 8070 | 8750 |
| 7.5° | 682 | 999 | 1536 | 2293 | 3222 | 4207 | 5234 | 6305 | 7306 | 8165 | 8849 |
| 5° | 693 | 1021 | 1573 | 2345 | 3277 | 4259 | 5277 | 6352 | 7357 | 8228 | 8923 |
| 2.5° | 702 | 1038 | 1603 | 2388 | 3328 | 4314 | 5339 | 6419 | 7420 | 8287 | 8984 |
| 0° | 703 | 1039 | 1601 | 2382 | 3315 | 4296 | 5318 | 6392 | 7394 | 8264 | 8966 |
| -2.5° | 702 | 1038 | 1603 | 2388 | 3328 | 4314 | 5339 | 6419 | 7420 | 8287 | 8984 |
| -5° | 693 | 1021 | 1573 | 2345 | 3277 | 4259 | 5277 | 6352 | 7357 | 8228 | 8923 |
| -7.5° | 682 | 999 | 1536 | 2293 | 3222 | 4207 | 5234 | 6305 | 7306 | 8165 | 8849 |
| -10° | 667 | 973 | 1494 | 2235 | 3152 | 4133 | 5157 | 6214 | 7213 | 8070 | 8750 |
| -12.5° | 650 | 942 | 1437 | 2150 | 3047 | 4022 | 5034 | 6080 | 7080 | 7946 | 8625 |
| -15° | 629 | 902 | 1362 | 2040 | 2905 | 3875 | 4867 | 5903 | 6902 | 7772 | 8461 |
| -17.5° | 604 | 852 | 1269 | 1903 | 2726 | 3692 | 4654 | 5721 | 6666 | 7530 | 8228 |
| -20° | 573 | 792 | 1157 | 1739 | 2518 | 3458 | 4406 | 5405 | 6379 | 7250 | 7976 |



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CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| -22.5° | 539 | 724 | 1051 | 1593 | 2307 | 3176 | 4111 | 5083 | 6061 | 6952 | 7650 |
| -25° | 506 | 680 | 968 | 1427 | 2066 | 2860 | 3766 | 4718 | 5688 | 6521 | 7235 |
| -27.5° | 477 | 633 | 868 | 1242 | 1798 | 2529 | 3387 | 4303 | 5197 | 6043 | 6783 |
| -30° | 446 | 576 | 760 | 1062 | 1564 | 2213 | 2981 | 3796 | 4662 | 5491 | 6245 |
| -32.5° | 410 | 520 | 679 | 936 | 1327 | 1870 | 2528 | 3274 | 4074 | 4896 | 5657 |
| -35° | 375 | 475 | 608 | 800 | 1095 | 1553 | 2099 | 2725 | 3457 | 4235 | 4930 |
| -37.5° | 345 | 430 | 533 | 685 | 926 | 1244 | 1684 | 2217 | 2836 | 3539 | 4157 |
| -40° | 314 | 383 | 476 | 599 | 754 | 986 | 1327 | 1726 | 2241 | 2793 | 3395 |
| -42.5° | 285 | 347 | 423 | 508 | 634 | 800 | 1004 | 1339 | 1694 | 2129 | 2607 |
| -45° | 255 | 310 | 371 | 447 | 532 | 642 | 807 | 983 | 1268 | 1550 | 1927 |
| -47.5° | 227 | 274 | 330 | 385 | 452 | 535 | 630 | 773 | 910 | 1134 | 1352 |
| -50° | 200 | 243 | 286 | 335 | 387 | 444 | 517 | 595 | 703 | 812 | 958 |
| -52.5° | 175 | 210 | 249 | 288 | 331 | 376 | 425 | 481 | 545 | 612 | 699 |
| -55° | 150 | 181 | 212 | 246 | 280 | 318 | 355 | 396 | 432 | 484 | 527 |
| -57.5° | 127 | 153 | 180 | 207 | 236 | 265 | 297 | 326 | 359 | 388 | 418 |
| -60° | 105 | 127 | 149 | 172 | 195 | 220 | 244 | 271 | 295 | 316 | 340 |
| -62.5° | 84 | 102 | 120 | 139 | 159 | 177 | 198 | 219 | 242 | 258 | 274 |
| -65° | 67 | 79 | 94 | 109 | 125 | 140 | 155 | 170 | 187 | 202 | 215 |
| -67.5° | 49 | 60 | 70 | 81 | 94 | 105 | 116 | 129 | 141 | 151 | 161 |
| -70° | 36 | 42 | 50 | 58 | 66 | 74 | 83 | 92 | 99 | 108 | 116 |
| -72.5° | 23 | 28 | 33 | 37 | 43 | 49 | 55 | 59 | 65 | 72 | 78 |
| -75° | 14 | 16 | 19 | 23 | 26 | 28 | 30 | 35 | 39 | 43 | 47 |
| -77.5° | 8 | 9 | 10 | 11 | 12 | 15 | 17 | 18 | 20 | 21 | 23 |
| -80° | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 7 | 7 | 9 | 10 |
| -82.5° | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 4 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| 82.5° | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| 80° | 11 | 12 | 13 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 |
| 77.5° | 25 | 27 | 30 | 31 | 32 | 33 | 34 | 35 | 35 | 34 | 34 |
| 75° | 50 | 52 | 56 | 59 | 61 | 63 | 65 | 67 | 68 | 68 | 68 |
| 72.5° | 83 | 87 | 91 | 96 | 100 | 103 | 106 | 109 | 110 | 112 | 113 |
| 70° | 123 | 129 | 136 | 142 | 147 | 153 | 158 | 162 | 165 | 167 | 169 |
| 67.5° | 171 | 180 | 189 | 196 | 204 | 211 | 218 | 223 | 227 | 230 | 232 |
| 65° | 227 | 238 | 250 | 260 | 269 | 278 | 287 | 295 | 300 | 304 | 308 |
| 62.5° | 289 | 304 | 319 | 333 | 346 | 357 | 370 | 380 | 387 | 393 | 397 |
| 60° | 361 | 380 | 401 | 423 | 441 | 454 | 474 | 489 | 498 | 503 | 511 |
| 57.5° | 453 | 480 | 507 | 546 | 575 | 594 | 618 | 642 | 655 | 661 | 672 |
| 55° | 581 | 633 | 665 | 731 | 784 | 812 | 834 | 884 | 912 | 919 | 939 |
| 52.5° | 774 | 877 | 953 | 1026 | 1134 | 1191 | 1208 | 1287 | 1343 | 1366 | 1400 |
| 50° | 1111 | 1256 | 1424 | 1536 | 1682 | 1784 | 1821 | 1907 | 1987 | 2022 | 2064 |
| 47.5° | 1627 | 1852 | 2088 | 2280 | 2440 | 2574 | 2645 | 2721 | 2813 | 2859 | 2901 |
| 45° | 2302 | 2643 | 2917 | 3159 | 3347 | 3486 | 3579 | 3690 | 3735 | 3771 | 3793 |
| 42.5° | 3102 | 3514 | 3836 | 4087 | 4277 | 4429 | 4522 | 4558 | 4640 | 4671 | 4669 |
| 40° | 3926 | 4423 | 4755 | 5016 | 5206 | 5360 | 5442 | 5473 | 5520 | 5540 | 5513 |
| 37.5° | 4745 | 5269 | 5651 | 5914 | 6099 | 6249 | 6314 | 6334 | 6351 | 6344 | 6307 |
| 35° | 5529 | 6038 | 6492 | 6729 | 6914 | 7029 | 7092 | 7087 | 7056 | 7045 | 6994 |
| 32.5° | 6237 | 6745 | 7153 | 7453 | 7618 | 7700 | 7773 | 7728 | 7676 | 7629 | 7564 |
| 30° | 6893 | 7349 | 7728 | 8050 | 8208 | 8279 | 8306 | 8281 | 8211 | 8130 | 8057 |
| 27.5° | 7391 | 7874 | 8239 | 8509 | 8712 | 8778 | 8783 | 8768 | 8688 | 8590 | 8502 |
| 25° | 7831 | 8312 | 8658 | 8904 | 9089 | 9199 | 9204 | 9187 | 9115 | 9014 | 8904 |
| 22.5° | 8203 | 8650 | 9005 | 9257 | 9413 | 9526 | 9576 | 9544 | 9496 | 9389 | 9265 |
| 20° | 8537 | 8983 | 9286 | 9534 | 9704 | 9810 | 9868 | 9861 | 9813 | 9727 | 9611 |
| 17.5° | 8782 | 9220 | 9538 | 9784 | 9956 | 10055 | 10106 | 10126 | 10084 | 10018 | 9930 |
| 15° | 8990 | 9418 | 9760 | 10008 | 10175 | 10278 | 10329 | 10342 | 10321 | 10266 | 10195 |
| 12.5° | 9154 | 9592 | 9943 | 10213 | 10392 | 10492 | 10546 | 10555 | 10536 | 10491 | 10426 |
| 10° | 9293 | 9743 | 10104 | 10380 | 10573 | 10697 | 10770 | 10792 | 10755 | 10696 | 10629 |
| 7.5° | 9406 | 9870 | 10249 | 10542 | 10750 | 10885 | 10965 | 10997 | 10982 | 10906 | 10818 |
| 5° | 9495 | 9977 | 10373 | 10676 | 10896 | 11050 | 11141 | 11169 | 11135 | 11075 | 10995 |
| 2.5° | 9568 | 10066 | 10483 | 10790 | 11026 | 11188 | 11282 | 11294 | 11242 | 11159 | 11049 |
| 0° | 9560 | 10064 | 10481 | 10805 | 11039 | 11209 | 11306 | 11319 | 11256 | 11154 | 11021 |
| -2.5° | 9568 | 10066 | 10483 | 10790 | 11026 | 11188 | 11282 | 11294 | 11242 | 11159 | 11049 |
| -5° | 9495 | 9977 | 10373 | 10676 | 10896 | 11050 | 11141 | 11169 | 11135 | 11075 | 10995 |
| -7.5° | 9406 | 9870 | 10249 | 10542 | 10750 | 10885 | 10965 | 10997 | 10982 | 10906 | 10818 |
| -10° | 9293 | 9743 | 10104 | 10380 | 10573 | 10697 | 10770 | 10792 | 10755 | 10696 | 10629 |
| -12.5° | 9154 | 9592 | 9943 | 10213 | 10392 | 10492 | 10546 | 10555 | 10536 | 10491 | 10426 |
| -15° | 8990 | 9418 | 9760 | 10008 | 10175 | 10278 | 10329 | 10342 | 10321 | 10266 | 10195 |
| -17.5° | 8782 | 9220 | 9538 | 9784 | 9956 | 10055 | 10106 | 10126 | 10084 | 10018 | 9930 |
| -20° | 8537 | 8983 | 9286 | 9534 | 9704 | 9810 | 9868 | 9861 | 9813 | 9727 | 9611 |



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CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 8203 | 8650 | 9005 | 9257 | 9413 | 9526 | 9576 | 9544 | 9496 | 9389 | 9265 |
| -25° | 7831 | 8312 | 8658 | 8904 | 9089 | 9199 | 9204 | 9187 | 9115 | 9014 | 8904 |
| -27.5° | 7391 | 7874 | 8239 | 8509 | 8712 | 8778 | 8783 | 8768 | 8688 | 8590 | 8502 |
| -30° | 6893 | 7349 | 7728 | 8050 | 8208 | 8279 | 8306 | 8281 | 8211 | 8130 | 8057 |
| -32.5° | 6237 | 6745 | 7153 | 7453 | 7618 | 7700 | 7773 | 7728 | 7676 | 7629 | 7564 |
| -35° | 5529 | 6038 | 6492 | 6729 | 6914 | 7029 | 7092 | 7087 | 7056 | 7045 | 6994 |
| -37.5° | 4745 | 5269 | 5651 | 5914 | 6099 | 6249 | 6314 | 6334 | 6351 | 6344 | 6307 |
| -40° | 3926 | 4423 | 4755 | 5016 | 5206 | 5360 | 5442 | 5473 | 5520 | 5540 | 5513 |
| -42.5° | 3102 | 3514 | 3836 | 4087 | 4277 | 4429 | 4522 | 4558 | 4640 | 4671 | 4669 |
| -45° | 2302 | 2643 | 2917 | 3159 | 3347 | 3486 | 3579 | 3690 | 3735 | 3771 | 3793 |
| -47.5° | 1627 | 1852 | 2088 | 2280 | 2440 | 2574 | 2645 | 2721 | 2813 | 2859 | 2901 |
| -50° | 1111 | 1256 | 1424 | 1536 | 1682 | 1784 | 1821 | 1907 | 1987 | 2022 | 2064 |
| -52.5° | 774 | 877 | 953 | 1026 | 1134 | 1191 | 1208 | 1287 | 1343 | 1366 | 1400 |
| -55° | 581 | 633 | 665 | 731 | 784 | 812 | 834 | 884 | 912 | 919 | 939 |
| -57.5° | 453 | 480 | 507 | 546 | 575 | 594 | 618 | 642 | 655 | 661 | 672 |
| -60° | 361 | 380 | 401 | 423 | 441 | 454 | 474 | 489 | 498 | 503 | 511 |
| -62.5° | 289 | 304 | 319 | 333 | 346 | 357 | 370 | 380 | 387 | 393 | 397 |
| -65° | 227 | 238 | 250 | 260 | 269 | 278 | 287 | 295 | 300 | 304 | 308 |
| -67.5° | 171 | 180 | 189 | 196 | 204 | 211 | 218 | 223 | 227 | 230 | 232 |
| -70° | 123 | 129 | 136 | 142 | 147 | 153 | 158 | 162 | 165 | 167 | 169 |
| -72.5° | 83 | 87 | 91 | 96 | 100 | 103 | 106 | 109 | 110 | 112 | 113 |
| -75° | 50 | 52 | 56 | 59 | 61 | 63 | 65 | 67 | 68 | 68 | 68 |
| -77.5° | 25 | 27 | 30 | 31 | 32 | 33 | 34 | 35 | 35 | 34 | 34 |
| -80° | 11 | 12 | 13 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 |
| -82.5° | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| -85° | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| 82.5° | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 80° | 16 | 16 | 16 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 15 |
| 77.5° | 34 | 33 | 33 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | 35 |
| 75° | 67 | 67 | 66 | 65 | 66 | 67 | 67 | 68 | 68 | 68 | 67 |
| 72.5° | 113 | 114 | 113 | 112 | 113 | 114 | 113 | 113 | 112 | 110 | 109 |
| 70° | 169 | 170 | 170 | 169 | 170 | 170 | 169 | 169 | 167 | 165 | 162 |
| 67.5° | 233 | 235 | 235 | 235 | 235 | 235 | 233 | 232 | 230 | 227 | 223 |
| 65° | 309 | 310 | 312 | 311 | 312 | 310 | 309 | 308 | 304 | 300 | 295 |
| 62.5° | 400 | 400 | 403 | 404 | 403 | 400 | 400 | 397 | 393 | 387 | 380 |
| 60° | 515 | 517 | 521 | 520 | 521 | 517 | 515 | 511 | 503 | 498 | 489 |
| 57.5° | 678 | 677 | 683 | 685 | 683 | 677 | 678 | 672 | 661 | 655 | 642 |
| 55° | 949 | 948 | 958 | 960 | 958 | 948 | 949 | 939 | 919 | 912 | 884 |
| 52.5° | 1422 | 1424 | 1442 | 1445 | 1442 | 1424 | 1422 | 1400 | 1366 | 1343 | 1287 |
| 50° | 2099 | 2105 | 2127 | 2128 | 2127 | 2105 | 2099 | 2064 | 2022 | 1987 | 1907 |
| 47.5° | 2948 | 2955 | 2981 | 2980 | 2981 | 2955 | 2948 | 2901 | 2859 | 2813 | 2721 |
| 45° | 3849 | 3868 | 3899 | 3894 | 3899 | 3868 | 3849 | 3793 | 3771 | 3735 | 3690 |
| 42.5° | 4725 | 4737 | 4757 | 4752 | 4757 | 4737 | 4725 | 4669 | 4671 | 4640 | 4558 |
| 40° | 5556 | 5569 | 5587 | 5583 | 5587 | 5569 | 5556 | 5513 | 5540 | 5520 | 5473 |
| 37.5° | 6322 | 6332 | 6341 | 6334 | 6341 | 6332 | 6322 | 6307 | 6344 | 6351 | 6334 |
| 35° | 6972 | 6976 | 6974 | 6947 | 6974 | 6976 | 6972 | 6994 | 7045 | 7056 | 7087 |
| 32.5° | 7501 | 7494 | 7476 | 7451 | 7476 | 7494 | 7501 | 7564 | 7629 | 7676 | 7728 |
| 30° | 7960 | 7946 | 7914 | 7889 | 7914 | 7946 | 7960 | 8057 | 8130 | 8211 | 8281 |
| 27.5° | 8396 | 8356 | 8304 | 8289 | 8304 | 8356 | 8396 | 8502 | 8590 | 8688 | 8768 |
| 25° | 8796 | 8729 | 8679 | 8658 | 8679 | 8729 | 8796 | 8904 | 9014 | 9115 | 9187 |
| 22.5° | 9165 | 9081 | 9038 | 9014 | 9038 | 9081 | 9165 | 9265 | 9389 | 9496 | 9544 |
| 20° | 9508 | 9418 | 9390 | 9375 | 9390 | 9418 | 9508 | 9611 | 9727 | 9813 | 9861 |
| 17.5° | 9818 | 9746 | 9725 | 9718 | 9725 | 9746 | 9818 | 9930 | 10018 | 10084 | 10126 |
| 15° | 10097 | 10031 | 10003 | 10013 | 10003 | 10031 | 10097 | 10195 | 10266 | 10321 | 10342 |
| 12.5° | 10347 | 10264 | 10233 | 10250 | 10233 | 10264 | 10347 | 10426 | 10491 | 10536 | 10555 |
| 10° | 10562 | 10473 | 10430 | 10449 | 10430 | 10473 | 10562 | 10629 | 10696 | 10755 | 10792 |
| 7.5° | 10734 | 10665 | 10613 | 10652 | 10613 | 10665 | 10734 | 10818 | 10906 | 10982 | 10997 |
| 5° | 10868 | 10783 | 10723 | 10756 | 10723 | 10783 | 10868 | 10995 | 11075 | 11135 | 11169 |
| 2.5° | 10926 | 10852 | 10776 | 10774 | 10776 | 10852 | 10926 | 11049 | 11159 | 11242 | 11294 |
| 0° | 10872 | 10750 | 10684 | 10758 | 10684 | 10750 | 10872 | 11021 | 11154 | 11256 | 11319 |
| -2.5° | 10926 | 10852 | 10776 | 10774 | 10776 | 10852 | 10926 | 11049 | 11159 | 11242 | 11294 |
| -5° | 10868 | 10783 | 10723 | 10756 | 10723 | 10783 | 10868 | 10995 | 11075 | 11135 | 11169 |
| -7.5° | 10734 | 10665 | 10613 | 10652 | 10613 | 10665 | 10734 | 10818 | 10906 | 10982 | 10997 |
| -10° | 10562 | 10473 | 10430 | 10449 | 10430 | 10473 | 10562 | 10629 | 10696 | 10755 | 10792 |
| -12.5° | 10347 | 10264 | 10233 | 10250 | 10233 | 10264 | 10347 | 10426 | 10491 | 10536 | 10555 |
| -15° | 10097 | 10031 | 10003 | 10013 | 10003 | 10031 | 10097 | 10195 | 10266 | 10321 | 10342 |
| -17.5° | 9818 | 9746 | 9725 | 9718 | 9725 | 9746 | 9818 | 9930 | 10018 | 10084 | 10126 |
| -20° | 9508 | 9418 | 9390 | 9375 | 9390 | 9418 | 9508 | 9611 | 9727 | 9813 | 9861 |



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CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|------|-------|------|------|------|------|------|-------|------|-------|
| -22.5° | 9165 | 9081 | 9038 | 9014 | 9038 | 9081 | 9165 | 9265 | 9389 | 9496 | 9544 |
| -25° | 8796 | 8729 | 8679 | 8658 | 8679 | 8729 | 8796 | 8904 | 9014 | 9115 | 9187 |
| -27.5° | 8396 | 8356 | 8304 | 8289 | 8304 | 8356 | 8396 | 8502 | 8590 | 8688 | 8768 |
| -30° | 7960 | 7946 | 7914 | 7889 | 7914 | 7946 | 7960 | 8057 | 8130 | 8211 | 8281 |
| -32.5° | 7501 | 7494 | 7476 | 7451 | 7476 | 7494 | 7501 | 7564 | 7629 | 7676 | 7728 |
| -35° | 6972 | 6976 | 6974 | 6947 | 6974 | 6976 | 6972 | 6994 | 7045 | 7056 | 7087 |
| -37.5° | 6322 | 6332 | 6341 | 6334 | 6341 | 6332 | 6322 | 6307 | 6344 | 6351 | 6334 |
| -40° | 5556 | 5569 | 5587 | 5583 | 5587 | 5569 | 5556 | 5513 | 5540 | 5520 | 5473 |
| -42.5° | 4725 | 4737 | 4757 | 4752 | 4757 | 4737 | 4725 | 4669 | 4671 | 4640 | 4558 |
| -45° | 3849 | 3868 | 3899 | 3894 | 3899 | 3868 | 3849 | 3793 | 3771 | 3735 | 3690 |
| -47.5° | 2948 | 2955 | 2981 | 2980 | 2981 | 2955 | 2948 | 2901 | 2859 | 2813 | 2721 |
| -50° | 2099 | 2105 | 2127 | 2128 | 2127 | 2105 | 2099 | 2064 | 2022 | 1987 | 1907 |
| -52.5° | 1422 | 1424 | 1442 | 1445 | 1442 | 1424 | 1422 | 1400 | 1366 | 1343 | 1287 |
| -55° | 949 | 948 | 958 | 960 | 958 | 948 | 949 | 939 | 919 | 912 | 884 |
| -57.5° | 678 | 677 | 683 | 685 | 683 | 677 | 678 | 672 | 661 | 655 | 642 |
| -60° | 515 | 517 | 521 | 520 | 521 | 517 | 515 | 511 | 503 | 498 | 489 |
| -62.5° | 400 | 400 | 403 | 404 | 403 | 400 | 400 | 397 | 393 | 387 | 380 |
| -65° | 309 | 310 | 312 | 311 | 312 | 310 | 309 | 308 | 304 | 300 | 295 |
| -67.5° | 233 | 235 | 235 | 235 | 235 | 235 | 233 | 232 | 230 | 227 | 223 |
| -70° | 169 | 170 | 170 | 169 | 170 | 170 | 169 | 169 | 167 | 165 | 162 |
| -72.5° | 113 | 114 | 113 | 112 | 113 | 114 | 113 | 113 | 112 | 110 | 109 |
| -75° | 67 | 67 | 66 | 65 | 66 | 67 | 67 | 68 | 68 | 68 | 67 |
| -77.5° | 34 | 33 | 33 | 33 | 33 | 33 | 34 | 34 | 34 | 35 | 35 |
| -80° | 16 | 16 | 16 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 15 |
| -82.5° | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| -85° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 82.5° | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 3 | 3 | 2 |
| 80° | 15 | 15 | 14 | 14 | 13 | 12 | 11 | 10 | 9 | 7 | 7 |
| 77.5° | 34 | 33 | 32 | 31 | 30 | 27 | 25 | 23 | 21 | 20 | 18 |
| 75° | 65 | 63 | 61 | 59 | 56 | 52 | 50 | 47 | 43 | 39 | 35 |
| 72.5° | 106 | 103 | 100 | 96 | 91 | 87 | 83 | 78 | 72 | 65 | 59 |
| 70° | 158 | 153 | 147 | 142 | 136 | 129 | 123 | 116 | 108 | 99 | 92 |
| 67.5° | 218 | 211 | 204 | 196 | 189 | 180 | 171 | 161 | 151 | 141 | 129 |
| 65° | 287 | 278 | 269 | 260 | 250 | 238 | 227 | 215 | 202 | 187 | 170 |
| 62.5° | 370 | 357 | 346 | 333 | 319 | 304 | 289 | 274 | 258 | 242 | 219 |
| 60° | 474 | 454 | 441 | 423 | 401 | 380 | 361 | 340 | 316 | 295 | 271 |
| 57.5° | 618 | 594 | 575 | 546 | 507 | 480 | 453 | 418 | 388 | 359 | 326 |
| 55° | 834 | 812 | 784 | 731 | 665 | 633 | 581 | 527 | 484 | 432 | 396 |
| 52.5° | 1208 | 1191 | 1134 | 1026 | 953 | 877 | 774 | 699 | 612 | 545 | 481 |
| 50° | 1821 | 1784 | 1682 | 1536 | 1424 | 1256 | 1111 | 958 | 812 | 703 | 595 |
| 47.5° | 2645 | 2574 | 2440 | 2280 | 2088 | 1852 | 1627 | 1352 | 1134 | 910 | 773 |
| 45° | 3579 | 3486 | 3347 | 3159 | 2917 | 2643 | 2302 | 1927 | 1550 | 1268 | 983 |
| 42.5° | 4522 | 4429 | 4277 | 4087 | 3836 | 3514 | 3102 | 2607 | 2129 | 1694 | 1339 |
| 40° | 5442 | 5360 | 5206 | 5016 | 4755 | 4423 | 3926 | 3395 | 2793 | 2241 | 1726 |
| 37.5° | 6314 | 6249 | 6099 | 5914 | 5651 | 5269 | 4745 | 4157 | 3539 | 2836 | 2217 |
| 35° | 7092 | 7029 | 6914 | 6729 | 6492 | 6038 | 5529 | 4930 | 4235 | 3457 | 2725 |
| 32.5° | 7773 | 7700 | 7618 | 7453 | 7153 | 6745 | 6237 | 5657 | 4896 | 4074 | 3274 |
| 30° | 8306 | 8279 | 8208 | 8050 | 7728 | 7349 | 6893 | 6245 | 5491 | 4662 | 3796 |
| 27.5° | 8783 | 8778 | 8712 | 8509 | 8239 | 7874 | 7391 | 6783 | 6043 | 5197 | 4303 |
| 25° | 9204 | 9199 | 9089 | 8904 | 8658 | 8312 | 7831 | 7235 | 6521 | 5688 | 4718 |
| 22.5° | 9576 | 9526 | 9413 | 9257 | 9005 | 8650 | 8203 | 7650 | 6952 | 6061 | 5083 |
| 20° | 9868 | 9810 | 9704 | 9534 | 9286 | 8983 | 8537 | 7976 | 7250 | 6379 | 5405 |
| 17.5° | 10106 | 10055 | 9956 | 9784 | 9538 | 9220 | 8782 | 8228 | 7530 | 6666 | 5721 |
| 15° | 10329 | 10278 | 10175 | 10008 | 9760 | 9418 | 8990 | 8461 | 7772 | 6902 | 5903 |
| 12.5° | 10546 | 10492 | 10392 | 10213 | 9943 | 9592 | 9154 | 8625 | 7946 | 7080 | 6080 |
| 10° | 10770 | 10697 | 10573 | 10380 | 10104 | 9743 | 9293 | 8750 | 8070 | 7213 | 6214 |
| 7.5° | 10965 | 10885 | 10750 | 10542 | 10249 | 9870 | 9406 | 8849 | 8165 | 7306 | 6305 |
| 5° | 11141 | 11050 | 10896 | 10676 | 10373 | 9977 | 9495 | 8923 | 8228 | 7357 | 6352 |
| 2.5° | 11282 | 11188 | 11026 | 10790 | 10483 | 10066 | 9568 | 8984 | 8287 | 7420 | 6419 |
| 0° | 11306 | 11209 | 11039 | 10805 | 10481 | 10064 | 9560 | 8966 | 8264 | 7394 | 6392 |
| -2.5° | 11282 | 11188 | 11026 | 10790 | 10483 | 10066 | 9568 | 8984 | 8287 | 7420 | 6419 |
| -5° | 11141 | 11050 | 10896 | 10676 | 10373 | 9977 | 9495 | 8923 | 8228 | 7357 | 6352 |
| -7.5° | 10965 | 10885 | 10750 | 10542 | 10249 | 9870 | 9406 | 8849 | 8165 | 7306 | 6305 |
| -10° | 10770 | 10697 | 10573 | 10380 | 10104 | 9743 | 9293 | 8750 | 8070 | 7213 | 6214 |
| -12.5° | 10546 | 10492 | 10392 | 10213 | 9943 | 9592 | 9154 | 8625 | 7946 | 7080 | 6080 |
| -15° | 10329 | 10278 | 10175 | 10008 | 9760 | 9418 | 8990 | 8461 | 7772 | 6902 | 5903 |
| -17.5° | 10106 | 10055 | 9956 | 9784 | 9538 | 9220 | 8782 | 8228 | 7530 | 6666 | 5721 |
| -20° | 9868 | 9810 | 9704 | 9534 | 9286 | 8983 | 8537 | 7976 | 7250 | 6379 | 5405 |



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CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| -22.5° | 9576 | 9526 | 9413 | 9257 | 9005 | 8650 | 8203 | 7650 | 6952 | 6061 | 5083 |
| -25° | 9204 | 9199 | 9089 | 8904 | 8658 | 8312 | 7831 | 7235 | 6521 | 5688 | 4718 |
| -27.5° | 8783 | 8778 | 8712 | 8509 | 8239 | 7874 | 7391 | 6783 | 6043 | 5197 | 4303 |
| -30° | 8306 | 8279 | 8208 | 8050 | 7728 | 7349 | 6893 | 6245 | 5491 | 4662 | 3796 |
| -32.5° | 7773 | 7700 | 7618 | 7453 | 7153 | 6745 | 6237 | 5657 | 4896 | 4074 | 3274 |
| -35° | 7092 | 7029 | 6914 | 6729 | 6492 | 6038 | 5529 | 4930 | 4235 | 3457 | 2725 |
| -37.5° | 6314 | 6249 | 6099 | 5914 | 5651 | 5269 | 4745 | 4157 | 3539 | 2836 | 2217 |
| -40° | 5442 | 5360 | 5206 | 5016 | 4755 | 4423 | 3926 | 3395 | 2793 | 2241 | 1726 |
| -42.5° | 4522 | 4429 | 4277 | 4087 | 3836 | 3514 | 3102 | 2607 | 2129 | 1694 | 1339 |
| -45° | 3579 | 3486 | 3347 | 3159 | 2917 | 2643 | 2302 | 1927 | 1550 | 1268 | 983 |
| -47.5° | 2645 | 2574 | 2440 | 2280 | 2088 | 1852 | 1627 | 1352 | 1134 | 910 | 773 |
| -50° | 1821 | 1784 | 1682 | 1536 | 1424 | 1256 | 1111 | 958 | 812 | 703 | 595 |
| -52.5° | 1208 | 1191 | 1134 | 1026 | 953 | 877 | 774 | 699 | 612 | 545 | 481 |
| -55° | 834 | 812 | 784 | 731 | 665 | 633 | 581 | 527 | 484 | 432 | 396 |
| -57.5° | 618 | 594 | 575 | 546 | 507 | 480 | 453 | 418 | 388 | 359 | 326 |
| -60° | 474 | 454 | 441 | 423 | 401 | 380 | 361 | 340 | 316 | 295 | 271 |
| -62.5° | 370 | 357 | 346 | 333 | 319 | 304 | 289 | 274 | 258 | 242 | 219 |
| -65° | 287 | 278 | 269 | 260 | 250 | 238 | 227 | 215 | 202 | 187 | 170 |
| -67.5° | 218 | 211 | 204 | 196 | 189 | 180 | 171 | 161 | 151 | 141 | 129 |
| -70° | 158 | 153 | 147 | 142 | 136 | 129 | 123 | 116 | 108 | 99 | 92 |
| -72.5° | 106 | 103 | 100 | 96 | 91 | 87 | 83 | 78 | 72 | 65 | 59 |
| -75° | 65 | 63 | 61 | 59 | 56 | 52 | 50 | 47 | 43 | 39 | 35 |
| -77.5° | 34 | 33 | 32 | 31 | 30 | 27 | 25 | 23 | 21 | 20 | 18 |
| -80° | 15 | 15 | 14 | 14 | 13 | 12 | 11 | 10 | 9 | 7 | 7 |
| -82.5° | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 3 | 3 | 2 |
| -85° | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 0 |
| 80° | 7 | 6 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 2 | 1 |
| 77.5° | 17 | 15 | 12 | 11 | 10 | 9 | 8 | 6 | 4 | 4 | 3 |
| 75° | 30 | 28 | 26 | 23 | 19 | 16 | 14 | 12 | 9 | 6 | 5 |
| 72.5° | 55 | 49 | 43 | 37 | 33 | 28 | 23 | 18 | 16 | 12 | 8 |
| 70° | 83 | 74 | 66 | 58 | 50 | 42 | 36 | 29 | 22 | 18 | 13 |
| 67.5° | 116 | 105 | 94 | 81 | 70 | 60 | 49 | 40 | 32 | 24 | 19 |
| 65° | 155 | 140 | 125 | 109 | 94 | 79 | 67 | 53 | 42 | 33 | 24 |
| 62.5° | 198 | 177 | 159 | 139 | 120 | 102 | 84 | 69 | 53 | 41 | 31 |
| 60° | 244 | 220 | 195 | 172 | 149 | 127 | 105 | 84 | 67 | 50 | 38 |
| 57.5° | 297 | 265 | 236 | 207 | 180 | 153 | 127 | 102 | 80 | 61 | 45 |
| 55° | 355 | 318 | 280 | 246 | 212 | 181 | 150 | 122 | 95 | 73 | 53 |
| 52.5° | 425 | 376 | 331 | 288 | 249 | 210 | 175 | 143 | 112 | 85 | 61 |
| 50° | 517 | 444 | 387 | 335 | 286 | 243 | 200 | 163 | 129 | 97 | 71 |
| 47.5° | 630 | 535 | 452 | 385 | 330 | 274 | 227 | 185 | 146 | 112 | 80 |
| 45° | 807 | 642 | 532 | 447 | 371 | 310 | 255 | 206 | 164 | 125 | 88 |
| 42.5° | 1004 | 800 | 634 | 508 | 423 | 347 | 285 | 229 | 182 | 137 | 98 |
| 40° | 1327 | 986 | 754 | 599 | 476 | 383 | 314 | 253 | 199 | 150 | 108 |
| 37.5° | 1684 | 1244 | 926 | 685 | 533 | 430 | 345 | 275 | 216 | 164 | 118 |
| 35° | 2099 | 1553 | 1095 | 800 | 608 | 475 | 375 | 298 | 234 | 177 | 127 |
| 32.5° | 2528 | 1870 | 1327 | 936 | 679 | 520 | 410 | 322 | 250 | 190 | 135 |
| 30° | 2981 | 2213 | 1564 | 1062 | 760 | 576 | 446 | 345 | 265 | 201 | 144 |
| 27.5° | 3387 | 2529 | 1798 | 1242 | 868 | 633 | 477 | 365 | 280 | 213 | 153 |
| 25° | 3766 | 2860 | 2066 | 1427 | 968 | 680 | 506 | 385 | 295 | 224 | 162 |
| 22.5° | 4111 | 3176 | 2307 | 1593 | 1051 | 724 | 539 | 408 | 310 | 235 | 170 |
| 20° | 4406 | 3458 | 2518 | 1739 | 1157 | 792 | 573 | 429 | 324 | 244 | 177 |
| 17.5° | 4654 | 3692 | 2726 | 1903 | 1269 | 852 | 604 | 448 | 336 | 252 | 183 |
| 15° | 4867 | 3875 | 2905 | 2040 | 1362 | 902 | 629 | 463 | 346 | 259 | 189 |
| 12.5° | 5034 | 4022 | 3047 | 2150 | 1437 | 942 | 650 | 476 | 354 | 265 | 194 |
| 10° | 5157 | 4133 | 3152 | 2235 | 1494 | 973 | 667 | 488 | 362 | 270 | 197 |
| 7.5° | 5234 | 4207 | 3222 | 2293 | 1536 | 999 | 682 | 497 | 369 | 274 | 200 |
| 5° | 5277 | 4259 | 3277 | 2345 | 1573 | 1021 | 693 | 505 | 377 | 280 | 204 |
| 2.5° | 5339 | 4314 | 3328 | 2388 | 1603 | 1038 | 702 | 511 | 378 | 280 | 203 |
| 0° | 5318 | 4296 | 3315 | 2382 | 1601 | 1039 | 703 | 511 | 378 | 280 | 203 |
| -2.5° | 5339 | 4314 | 3328 | 2388 | 1603 | 1038 | 702 | 511 | 378 | 280 | 203 |
| -5° | 5277 | 4259 | 3277 | 2345 | 1573 | 1021 | 693 | 505 | 377 | 280 | 204 |
| -7.5° | 5234 | 4207 | 3222 | 2293 | 1536 | 999 | 682 | 497 | 369 | 274 | 200 |
| -10° | 5157 | 4133 | 3152 | 2235 | 1494 | 973 | 667 | 488 | 362 | 270 | 197 |
| -12.5° | 5034 | 4022 | 3047 | 2150 | 1437 | 942 | 650 | 476 | 354 | 265 | 194 |
| -15° | 4867 | 3875 | 2905 | 2040 | 1362 | 902 | 629 | 463 | 346 | 259 | 189 |
| -17.5° | 4654 | 3692 | 2726 | 1903 | 1269 | 852 | 604 | 448 | 336 | 252 | 183 |
| -20° | 4406 | 3458 | 2518 | 1739 | 1157 | 792 | 573 | 429 | 324 | 244 | 177 |



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CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|-------|
| -22.5° | 4111 | 3176 | 2307 | 1593 | 1051 | 724 | 539 | 408 | 310 | 235 | 170 |
| -25° | 3766 | 2860 | 2066 | 1427 | 968 | 680 | 506 | 385 | 295 | 224 | 162 |
| -27.5° | 3387 | 2529 | 1798 | 1242 | 868 | 633 | 477 | 365 | 280 | 213 | 153 |
| -30° | 2981 | 2213 | 1564 | 1062 | 760 | 576 | 446 | 345 | 265 | 201 | 144 |
| -32.5° | 2528 | 1870 | 1327 | 936 | 679 | 520 | 410 | 322 | 250 | 190 | 135 |
| -35° | 2099 | 1553 | 1095 | 800 | 608 | 475 | 375 | 298 | 234 | 177 | 127 |
| -37.5° | 1684 | 1244 | 926 | 685 | 533 | 430 | 345 | 275 | 216 | 164 | 118 |
| -40° | 1327 | 986 | 754 | 599 | 476 | 383 | 314 | 253 | 199 | 150 | 108 |
| -42.5° | 1004 | 800 | 634 | 508 | 423 | 347 | 285 | 229 | 182 | 137 | 98 |
| -45° | 807 | 642 | 532 | 447 | 371 | 310 | 255 | 206 | 164 | 125 | 88 |
| -47.5° | 630 | 535 | 452 | 385 | 330 | 274 | 227 | 185 | 146 | 112 | 80 |
| -50° | 517 | 444 | 387 | 335 | 286 | 243 | 200 | 163 | 129 | 97 | 71 |
| -52.5° | 425 | 376 | 331 | 288 | 249 | 210 | 175 | 143 | 112 | 85 | 61 |
| -55° | 355 | 318 | 280 | 246 | 212 | 181 | 150 | 122 | 95 | 73 | 53 |
| -57.5° | 297 | 265 | 236 | 207 | 180 | 153 | 127 | 102 | 80 | 61 | 45 |
| -60° | 244 | 220 | 195 | 172 | 149 | 127 | 105 | 84 | 67 | 50 | 38 |
| -62.5° | 198 | 177 | 159 | 139 | 120 | 102 | 84 | 69 | 53 | 41 | 31 |
| -65° | 155 | 140 | 125 | 109 | 94 | 79 | 67 | 53 | 42 | 33 | 24 |
| -67.5° | 116 | 105 | 94 | 81 | 70 | 60 | 49 | 40 | 32 | 24 | 19 |
| -70° | 83 | 74 | 66 | 58 | 50 | 42 | 36 | 29 | 22 | 18 | 13 |
| -72.5° | 55 | 49 | 43 | 37 | 33 | 28 | 23 | 18 | 16 | 12 | 8 |
| -75° | 30 | 28 | 26 | 23 | 19 | 16 | 14 | 12 | 9 | 6 | 5 |
| -77.5° | 17 | 15 | 12 | 11 | 10 | 9 | 8 | 6 | 4 | 4 | 3 |
| -80° | 7 | 6 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 2 | 1 |
| -82.5° | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77.5° | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 75° | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 72.5° | 5 | 3 | 1 | 0 | 0 | 0 | 0 |
| 70° | 8 | 5 | 3 | 0 | 0 | 0 | 0 |
| 67.5° | 12 | 6 | 4 | 1 | 0 | 0 | 0 |
| 65° | 17 | 9 | 5 | 2 | 0 | 0 | 0 |
| 62.5° | 21 | 13 | 6 | 3 | 0 | 0 | 0 |
| 60° | 26 | 16 | 7 | 3 | 0 | 0 | 0 |
| 57.5° | 31 | 20 | 10 | 4 | 1 | 0 | 0 |
| 55° | 37 | 24 | 13 | 5 | 1 | 0 | 0 |
| 52.5° | 42 | 27 | 15 | 6 | 1 | 0 | 0 |
| 50° | 48 | 31 | 18 | 6 | 2 | 0 | 0 |
| 47.5° | 53 | 36 | 21 | 7 | 2 | 0 | 0 |
| 45° | 60 | 39 | 23 | 9 | 3 | 0 | 0 |
| 42.5° | 67 | 43 | 26 | 11 | 3 | 0 | 0 |
| 40° | 74 | 47 | 28 | 13 | 4 | 0 | 0 |
| 37.5° | 80 | 50 | 31 | 14 | 4 | 0 | 0 |
| 35° | 86 | 54 | 33 | 16 | 4 | 0 | 0 |
| 32.5° | 92 | 58 | 35 | 17 | 4 | 0 | 0 |
| 30° | 98 | 63 | 38 | 19 | 5 | 0 | 0 |
| 27.5° | 104 | 67 | 39 | 20 | 5 | 0 | 0 |
| 25° | 110 | 70 | 41 | 21 | 5 | 0 | 0 |
| 22.5° | 115 | 73 | 43 | 22 | 5 | 0 | 0 |
| 20° | 119 | 76 | 44 | 23 | 6 | 0 | 0 |
| 17.5° | 123 | 78 | 45 | 24 | 6 | 0 | 0 |
| 15° | 126 | 81 | 46 | 24 | 6 | 0 | 0 |
| 12.5° | 129 | 82 | 47 | 25 | 6 | 0 | 0 |
| 10° | 131 | 83 | 48 | 25 | 6 | 0 | 0 |
| 7.5° | 133 | 84 | 49 | 26 | 6 | 0 | 0 |
| 5° | 136 | 86 | 49 | 26 | 6 | 0 | 0 |
| 2.5° | 135 | 85 | 49 | 26 | 6 | 0 | 0 |
| 0° | 135 | 85 | 49 | 26 | 6 | 0 | 0 |
| -2.5° | 135 | 85 | 49 | 26 | 6 | 0 | 0 |
| -5° | 136 | 86 | 49 | 26 | 6 | 0 | 0 |
| -7.5° | 133 | 84 | 49 | 26 | 6 | 0 | 0 |
| -10° | 131 | 83 | 48 | 25 | 6 | 0 | 0 |
| -12.5° | 129 | 82 | 47 | 25 | 6 | 0 | 0 |
| -15° | 126 | 81 | 46 | 24 | 6 | 0 | 0 |
| -17.5° | 123 | 78 | 45 | 24 | 6 | 0 | 0 |
| -20° | 119 | 76 | 44 | 23 | 6 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 115 | 73 | 43 | 22 | 5 | 0 | 0 |
| -25° | 110 | 70 | 41 | 21 | 5 | 0 | 0 |
| -27.5° | 104 | 67 | 39 | 20 | 5 | 0 | 0 |
| -30° | 98 | 63 | 38 | 19 | 5 | 0 | 0 |
| -32.5° | 92 | 58 | 35 | 17 | 4 | 0 | 0 |
| -35° | 86 | 54 | 33 | 16 | 4 | 0 | 0 |
| -37.5° | 80 | 50 | 31 | 14 | 4 | 0 | 0 |
| -40° | 74 | 47 | 28 | 13 | 4 | 0 | 0 |
| -42.5° | 67 | 43 | 26 | 11 | 3 | 0 | 0 |
| -45° | 60 | 39 | 23 | 9 | 3 | 0 | 0 |
| -47.5° | 53 | 36 | 21 | 7 | 2 | 0 | 0 |
| -50° | 48 | 31 | 18 | 6 | 2 | 0 | 0 |
| -52.5° | 42 | 27 | 15 | 6 | 1 | 0 | 0 |
| -55° | 37 | 24 | 13 | 5 | 1 | 0 | 0 |
| -57.5° | 31 | 20 | 10 | 4 | 1 | 0 | 0 |
| -60° | 26 | 16 | 7 | 3 | 0 | 0 | 0 |
| -62.5° | 21 | 13 | 6 | 3 | 0 | 0 | 0 |
| -65° | 17 | 9 | 5 | 2 | 0 | 0 | 0 |
| -67.5° | 12 | 6 | 4 | 1 | 0 | 0 | 0 |
| -70° | 8 | 5 | 3 | 0 | 0 | 0 | 0 |
| -72.5° | 5 | 3 | 1 | 0 | 0 | 0 | 0 |
| -75° | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| -77.5° | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| -80° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -82.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -87.5° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)