

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

Brand: IRiS

Report Number: P#

Luminaire Tested: P3ART20R709850D010 E3CLSWW1MB

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART20R709850D010 E3CLSWW1MB
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 98CRI , E3CLSWW1MB TRIM
Light Source: -
Ballast/Driver: -

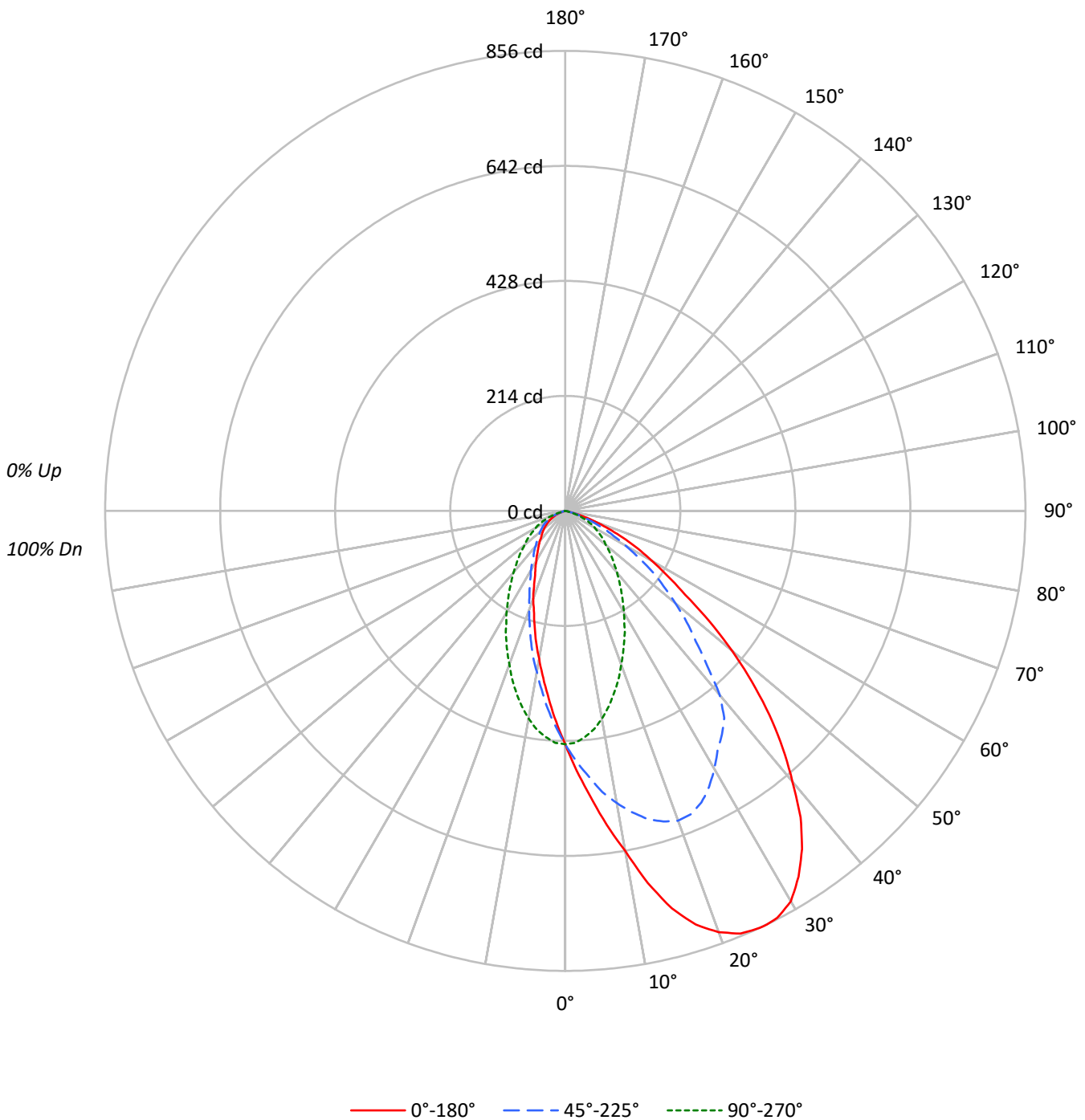
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 865.0 lumens
Efficiency: N/A
Efficacy: 31.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
Input Voltage (V): NR
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: 24 FT

TEST NUMBER: P#
CATALOG NUMBER: P3ART20R709850D010 E3CLSWW1MB

Luminous Intensity Polar Plot





TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709850D010 E3CLSWW1MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | 89 | 89 |
| 2 | 103 | 96 | 91 | 86 | 101 | 95 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 81 | 85 | 82 | 80 | 78 | 78 | 78 |
| 3 | 95 | 87 | 80 | 74 | 93 | 85 | 79 | 74 | 82 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 70 | 68 | 68 | 68 |
| 4 | 88 | 78 | 70 | 65 | 86 | 77 | 70 | 64 | 74 | 68 | 63 | 72 | 67 | 63 | 70 | 66 | 62 | 60 | 60 | 60 |
| 5 | 82 | 71 | 63 | 57 | 80 | 70 | 62 | 57 | 68 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | 53 | 53 |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 51 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 47 | 47 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | 43 | 43 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | 39 | 39 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | 35 | 35 |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | 32 | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 95212 | 95212 | 95212 | 95212 | 95212 |
| 5° | 117191 | 109091 | 92890 | 81554 | 77217 |
| 10° | 143128 | 122910 | 87395 | 67734 | 62279 |
| 15° | 173781 | 134779 | 79637 | 56255 | 50125 |
| 20° | 194640 | 143116 | 70986 | 45807 | 40650 |
| 25° | 207157 | 144831 | 62931 | 37986 | 32058 |
| 30° | 212463 | 140401 | 55274 | 32309 | 27321 |
| 35° | 205561 | 135934 | 48586 | 27572 | 23637 |
| 40° | 188210 | 127811 | 42852 | 24589 | 21068 |
| 45° | 166622 | 106523 | 38050 | 22824 | 19010 |
| 50° | 138094 | 91221 | 33466 | 20912 | 17569 |
| 55° | 104101 | 75964 | 30967 | 19689 | 15942 |
| 60° | 81792 | 57013 | 27980 | 18288 | 13990 |
| 65° | 61122 | 42028 | 24179 | 15255 | 11467 |
| 70° | 39302 | 26735 | 17311 | 11028 | 6283 |
| 75° | 16606 | 14572 | 8303 | 4151 | 2118 |
| 80° | 3157 | 3157 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 166622 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.2 | 4.8 |
| 10°-20° | 118.6 | 13.7 |
| 20°-30° | 173.4 | 20.0 |
| 30°-40° | 188.9 | 21.8 |
| 40°-50° | 163.5 | 18.9 |
| 50°-60° | 109.5 | 12.7 |
| 60°-70° | 56.6 | 6.5 |
| 70°-80° | 13.4 | 1.5 |
| 80°-90° | 0.1 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 333.1 | 38.5 |
| 0°-40° | 522.0 | 60.3 |
| 0°-60° | 794.9 | 91.9 |
| 0°-90° | 865.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 865.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 434 | 434 | 434 | 434 | 434 | |
| 5° | 532 | 496 | 422 | 370 | 351 | 54 |
| 15° | 766 | 594 | 351 | 248 | 221 | 217 |
| 25° | 856 | 599 | 260 | 157 | 132 | 393 |
| 35° | 768 | 508 | 182 | 103 | 88 | 476 |
| 45° | 537 | 344 | 123 | 74 | 61 | 411 |
| 55° | 272 | 199 | 81 | 52 | 42 | 252 |
| 65° | 118 | 81 | 47 | 29 | 22 | 119 |
| 75° | 20 | 17 | 10 | 5 | 2 | 26 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709850D010 E3CLSWW1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| 2.5° | 483.3 | 480.9 | 480.9 | 476.0 | 471.0 | 466.1 | 458.8 | 451.4 | 444.1 | 436.7 | 431.8 |
| 5° | 532.4 | 534.8 | 532.4 | 522.6 | 510.3 | 495.6 | 480.9 | 463.7 | 446.5 | 431.8 | 422.0 |
| 7.5° | 588.8 | 588.8 | 581.4 | 569.2 | 552.0 | 527.5 | 502.9 | 473.5 | 446.5 | 422.0 | 409.7 |
| 10° | 642.8 | 642.8 | 630.5 | 610.9 | 583.9 | 552.0 | 517.7 | 478.4 | 441.6 | 407.3 | 392.5 |
| 12.5° | 709.0 | 706.6 | 691.8 | 660.0 | 620.7 | 574.1 | 527.5 | 478.4 | 434.2 | 392.5 | 372.9 |
| 15° | 765.5 | 763.0 | 743.4 | 704.1 | 652.6 | 593.7 | 529.9 | 473.5 | 419.5 | 372.9 | 350.8 |
| 17.5° | 807.2 | 802.3 | 780.2 | 738.5 | 679.6 | 606.0 | 532.4 | 463.7 | 402.4 | 350.8 | 328.8 |
| 20° | 834.1 | 831.7 | 807.2 | 758.1 | 694.3 | 613.3 | 529.9 | 451.4 | 385.2 | 328.8 | 304.2 |
| 22.5° | 851.3 | 846.4 | 821.9 | 767.9 | 694.3 | 610.9 | 520.1 | 434.2 | 363.1 | 306.7 | 282.1 |
| 25° | 856.2 | 853.8 | 824.3 | 765.5 | 686.9 | 598.6 | 505.4 | 417.1 | 341.0 | 284.6 | 260.1 |
| 26° | 856.2 | 853.8 | 824.3 | 763.0 | 682.0 | 591.3 | 498.0 | 409.7 | 333.7 | 274.8 | 252.7 |
| 27.5° | 853.8 | 851.3 | 819.4 | 755.6 | 672.2 | 579.0 | 483.3 | 395.0 | 318.9 | 262.5 | 238.0 |
| 30° | 839.1 | 834.1 | 802.3 | 738.5 | 650.1 | 554.5 | 458.8 | 372.9 | 296.9 | 240.4 | 218.3 |
| 32.5° | 807.2 | 802.3 | 767.9 | 709.0 | 625.6 | 527.5 | 431.8 | 348.4 | 274.8 | 218.3 | 198.7 |
| 35° | 767.9 | 763.0 | 728.6 | 672.2 | 591.3 | 507.8 | 402.4 | 321.4 | 250.2 | 201.2 | 181.5 |
| 37.5° | 718.8 | 711.5 | 682.0 | 623.2 | 549.6 | 485.8 | 377.8 | 294.4 | 228.2 | 181.5 | 164.4 |
| 40° | 657.5 | 655.0 | 628.1 | 574.1 | 500.5 | 446.5 | 363.1 | 294.4 | 208.5 | 164.4 | 149.7 |
| 42.5° | 598.6 | 593.7 | 569.2 | 522.6 | 456.3 | 390.1 | 318.9 | 282.1 | 193.8 | 147.2 | 134.9 |
| 45° | 537.3 | 532.4 | 510.3 | 471.0 | 409.7 | 343.5 | 343.5 | 242.9 | 166.8 | 134.9 | 122.7 |
| 47.5° | 471.0 | 466.1 | 449.0 | 419.5 | 365.6 | 306.7 | 250.2 | 198.7 | 152.1 | 120.2 | 110.4 |
| 50° | 404.8 | 407.3 | 392.5 | 363.1 | 321.4 | 267.4 | 215.9 | 166.8 | 130.0 | 107.9 | 98.1 |
| 52.5° | 338.6 | 336.1 | 326.3 | 306.7 | 277.2 | 230.6 | 184.0 | 142.3 | 112.9 | 95.7 | 90.8 |
| 55° | 272.3 | 274.8 | 269.9 | 257.6 | 233.1 | 198.7 | 154.6 | 122.7 | 100.6 | 85.9 | 81.0 |
| 57.5° | 225.7 | 228.2 | 218.3 | 211.0 | 191.4 | 161.9 | 127.6 | 103.0 | 85.9 | 76.1 | 71.1 |
| 60° | 186.5 | 188.9 | 181.5 | 171.7 | 157.0 | 130.0 | 103.0 | 85.9 | 76.1 | 68.7 | 63.8 |
| 62.5° | 152.1 | 149.7 | 144.7 | 134.9 | 122.7 | 103.0 | 83.4 | 71.1 | 63.8 | 58.9 | 56.4 |
| 65° | 117.8 | 117.8 | 112.9 | 105.5 | 95.7 | 81.0 | 66.2 | 58.9 | 54.0 | 49.1 | 46.6 |
| 67.5° | 88.3 | 88.3 | 83.4 | 78.5 | 68.7 | 58.9 | 51.5 | 46.6 | 44.2 | 39.3 | 36.8 |
| 70° | 61.3 | 61.3 | 58.9 | 56.4 | 49.1 | 41.7 | 39.3 | 34.3 | 31.9 | 29.4 | 27.0 |
| 72.5° | 39.3 | 39.3 | 39.3 | 34.3 | 31.9 | 27.0 | 27.0 | 24.5 | 22.1 | 19.6 | 19.6 |
| 75° | 19.6 | 22.1 | 19.6 | 19.6 | 17.2 | 17.2 | 14.7 | 14.7 | 12.3 | 12.3 | 9.8 |
| 77.5° | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 80° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709850D010 E3CLSWW1MB

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| 2.5° | 426.9 | 419.5 | 414.6 | 407.3 | 402.4 | 397.4 | 395.0 | 392.5 | 392.5 | 392.5 |
| 5° | 414.6 | 402.4 | 390.1 | 377.8 | 370.5 | 363.1 | 355.7 | 353.3 | 350.8 | 350.8 |
| 7.5° | 399.9 | 380.3 | 363.1 | 348.4 | 336.1 | 328.8 | 321.4 | 316.5 | 314.0 | 314.0 |
| 10° | 380.3 | 355.7 | 336.1 | 316.5 | 304.2 | 294.4 | 289.5 | 282.1 | 282.1 | 279.7 |
| 12.5° | 358.2 | 328.8 | 306.7 | 289.5 | 277.2 | 265.0 | 257.6 | 252.7 | 250.2 | 250.2 |
| 15° | 333.7 | 304.2 | 279.7 | 260.1 | 247.8 | 235.5 | 228.2 | 223.3 | 220.8 | 220.8 |
| 17.5° | 309.1 | 277.2 | 252.7 | 233.1 | 220.8 | 208.5 | 201.2 | 196.3 | 196.3 | 193.8 |
| 20° | 284.6 | 252.7 | 228.2 | 208.5 | 196.3 | 186.5 | 179.1 | 174.2 | 171.7 | 174.2 |
| 22.5° | 262.5 | 230.6 | 206.1 | 188.9 | 174.2 | 164.4 | 157.0 | 154.6 | 152.1 | 152.1 |
| 25° | 238.0 | 208.5 | 186.5 | 169.3 | 157.0 | 147.2 | 139.8 | 137.4 | 134.9 | 132.5 |
| 26° | 230.6 | 201.2 | 179.1 | 161.9 | 149.7 | 139.8 | 134.9 | 130.0 | 127.6 | 127.6 |
| 27.5° | 220.8 | 188.9 | 169.3 | 152.1 | 139.8 | 132.5 | 125.1 | 122.7 | 120.2 | 120.2 |
| 30° | 198.7 | 171.7 | 152.1 | 137.4 | 127.6 | 117.8 | 112.9 | 110.4 | 107.9 | 107.9 |
| 32.5° | 181.5 | 154.6 | 137.4 | 125.1 | 115.3 | 107.9 | 103.0 | 98.1 | 98.1 | 98.1 |
| 35° | 164.4 | 139.8 | 125.1 | 112.9 | 103.0 | 95.7 | 93.2 | 90.8 | 88.3 | 88.3 |
| 37.5° | 149.7 | 127.6 | 112.9 | 103.0 | 95.7 | 88.3 | 83.4 | 81.0 | 81.0 | 81.0 |
| 40° | 134.9 | 117.8 | 103.0 | 93.2 | 85.9 | 81.0 | 76.1 | 73.6 | 73.6 | 73.6 |
| 42.5° | 122.7 | 105.5 | 95.7 | 85.9 | 78.5 | 73.6 | 71.1 | 68.7 | 66.2 | 66.2 |
| 45° | 112.9 | 98.1 | 85.9 | 78.5 | 73.6 | 68.7 | 63.8 | 61.3 | 61.3 | 61.3 |
| 47.5° | 100.6 | 90.8 | 78.5 | 71.1 | 66.2 | 61.3 | 58.9 | 56.4 | 56.4 | 56.4 |
| 50° | 93.2 | 83.4 | 73.6 | 66.2 | 61.3 | 56.4 | 54.0 | 51.5 | 51.5 | 51.5 |
| 52.5° | 83.4 | 76.1 | 68.7 | 61.3 | 56.4 | 51.5 | 49.1 | 46.6 | 46.6 | 46.6 |
| 55° | 76.1 | 68.7 | 61.3 | 56.4 | 51.5 | 46.6 | 44.2 | 41.7 | 41.7 | 41.7 |
| 57.5° | 68.7 | 61.3 | 56.4 | 51.5 | 46.6 | 44.2 | 39.3 | 39.3 | 36.8 | 36.8 |
| 60° | 61.3 | 54.0 | 49.1 | 46.6 | 41.7 | 39.3 | 34.3 | 31.9 | 31.9 | 31.9 |
| 62.5° | 51.5 | 49.1 | 44.2 | 39.3 | 34.3 | 31.9 | 29.4 | 27.0 | 27.0 | 27.0 |
| 65° | 44.2 | 41.7 | 36.8 | 31.9 | 29.4 | 27.0 | 24.5 | 22.1 | 22.1 | 22.1 |
| 67.5° | 36.8 | 31.9 | 29.4 | 27.0 | 24.5 | 22.1 | 19.6 | 17.2 | 14.7 | 17.2 |
| 70° | 27.0 | 24.5 | 22.1 | 19.6 | 17.2 | 14.7 | 12.3 | 12.3 | 9.8 | 9.8 |
| 72.5° | 17.2 | 14.7 | 14.7 | 12.3 | 9.8 | 9.8 | 7.4 | 7.4 | 4.9 | 4.9 |
| 75° | 9.8 | 9.8 | 7.4 | 7.4 | 4.9 | 4.9 | 2.5 | 2.5 | 2.5 | 2.5 |
| 77.5° | 4.9 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)