

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: P1446684

Luminaire Tested: P3ART09R709735DE010 E3LCWW1H

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART09R709735DE010 E3LCWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3LCWW1H TRIM
Light Source: -
Ballast/Driver: -

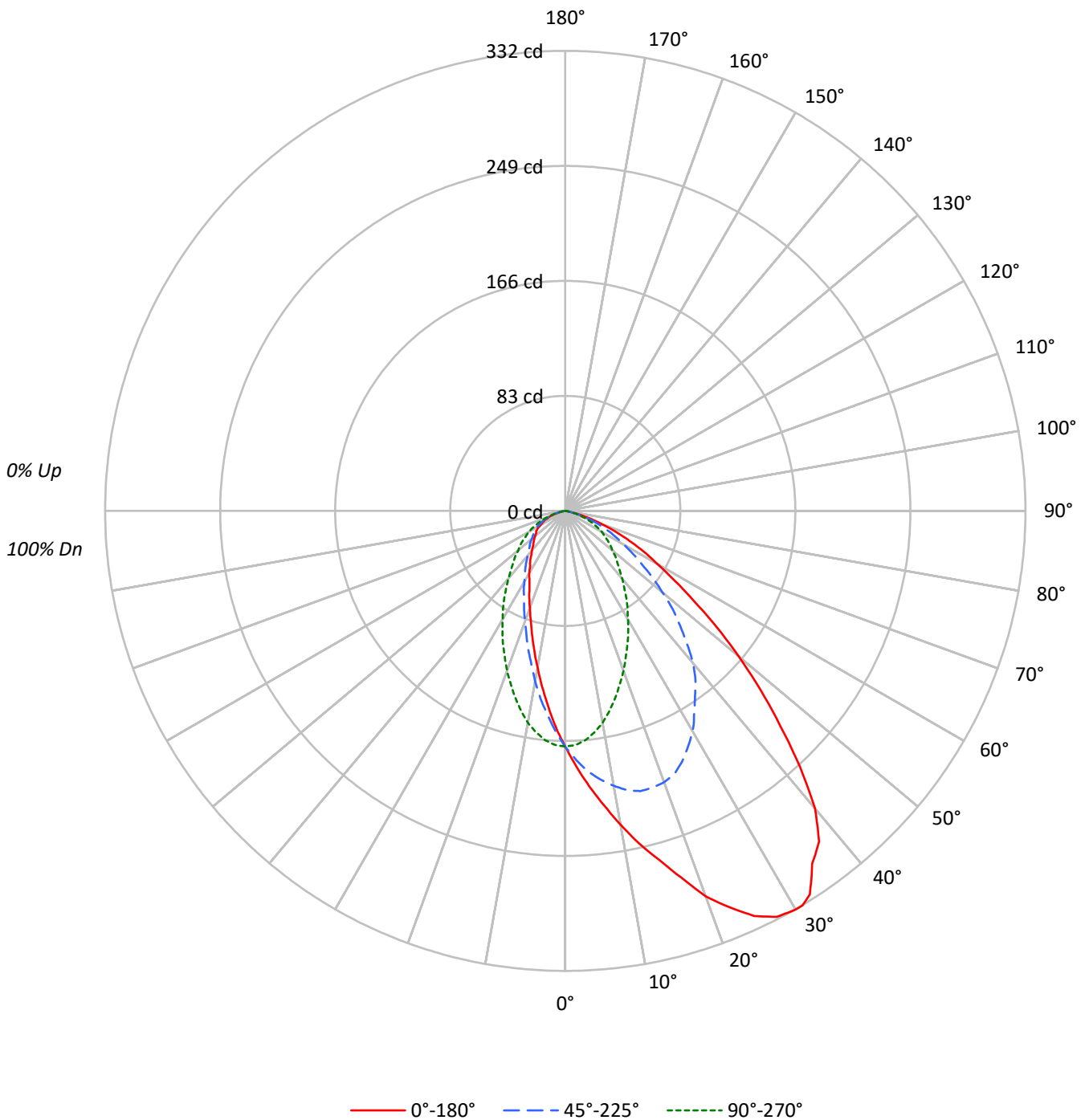
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 346.0 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1446684
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Luminous Intensity Polar Plot





TEST NUMBER: P1446684
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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 | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | |
| 2 | 102 | 95 | 90 | 85 | 100 | 93 | 88 | 84 | 90 | 86 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 51 | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 49 | 60 | 53 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 46 | | |
| 7 | 70 | 57 | 49 | 44 | 68 | 57 | 49 | 44 | 55 | 48 | 43 | 54 | 48 | 43 | 52 | 47 | 43 | 41 | | |
| 8 | 65 | 53 | 45 | 39 | 64 | 52 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 48 | 43 | 39 | 37 | | |
| 9 | 61 | 49 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 35 | 45 | 39 | 35 | 34 | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 45 | 37 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 31 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 37300 | 37300 | 37300 | 37300 | 37300 |
| 5° | 43936 | 41558 | 36562 | 32467 | 31169 |
| 10° | 51213 | 44867 | 34580 | 27811 | 25606 |
| 15° | 59138 | 47537 | 31691 | 23428 | 20976 |
| 20° | 69049 | 48631 | 28679 | 19718 | 17432 |
| 25° | 78029 | 48293 | 25695 | 16888 | 14759 |
| 30° | 84140 | 46539 | 22890 | 14939 | 13192 |
| 35° | 83172 | 43687 | 20532 | 13411 | 11832 |
| 40° | 80207 | 41077 | 18291 | 12108 | 10706 |
| 45° | 67976 | 36283 | 16467 | 11288 | 10048 |
| 50° | 55674 | 31180 | 15078 | 10746 | 9722 |
| 55° | 43239 | 25920 | 14298 | 10513 | 9787 |
| 60° | 33638 | 21577 | 13376 | 10350 | 9034 |
| 65° | 26514 | 17849 | 11726 | 9703 | 8665 |
| 70° | 18272 | 13207 | 9425 | 8207 | 7565 |
| 75° | 9150 | 7456 | 6693 | 5846 | 4999 |
| 80° | 1263 | 2526 | 3662 | 2526 | 1263 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 67976 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 15.9 | 4.6 |
| 10°-20° | 44.3 | 12.8 |
| 20°-30° | 65.3 | 18.9 |
| 30°-40° | 73.2 | 21.2 |
| 40°-50° | 64.4 | 18.6 |
| 50°-60° | 46.1 | 13.3 |
| 60°-70° | 27.3 | 7.9 |
| 70°-80° | 9.1 | 2.6 |
| 80°-90° | 0.4 | 0.1 |
| 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° | 125.5 | 36.3 |
| 0°-40° | 198.7 | 57.4 |
| 0°-60° | 309.1 | 89.3 |
| 0°-90° | 346.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 346.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 170 | 170 | 170 | 170 | 170 | |
| 5° | 200 | 189 | 166 | 148 | 142 | 20 |
| 15° | 260 | 209 | 140 | 103 | 92 | 75 |
| 25° | 322 | 200 | 106 | 70 | 61 | 148 |
| 35° | 311 | 163 | 77 | 50 | 44 | 195 |
| 45° | 219 | 117 | 53 | 36 | 32 | 170 |
| 55° | 113 | 68 | 37 | 28 | 26 | 103 |
| 65° | 51 | 34 | 23 | 19 | 17 | 51 |
| 75° | 11 | 9 | 8 | 7 | 6 | 13 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1446684
 CATALOG NUMBER: P3ART09R709735DE010 E3LCWW1H

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 |
| 2.5° | 184.8 | 184.8 | 184.8 | 182.9 | 182.9 | 179.9 | 177.9 | 175.0 | 173.0 | 170.1 | 169.1 |
| 5° | 199.6 | 199.6 | 197.6 | 195.6 | 192.7 | 188.8 | 183.8 | 178.9 | 173.0 | 168.1 | 166.1 |
| 7.5° | 214.3 | 215.3 | 212.3 | 208.4 | 202.5 | 195.6 | 188.8 | 180.9 | 172.0 | 165.2 | 161.2 |
| 10° | 230.0 | 230.0 | 226.1 | 220.2 | 211.4 | 201.5 | 190.7 | 179.9 | 169.1 | 159.3 | 155.3 |
| 12.5° | 245.8 | 244.8 | 239.9 | 231.0 | 220.2 | 206.4 | 191.7 | 177.9 | 165.2 | 153.4 | 147.5 |
| 15° | 260.5 | 260.5 | 253.6 | 242.8 | 227.1 | 209.4 | 191.7 | 174.0 | 159.3 | 145.5 | 139.6 |
| 17.5° | 277.2 | 277.2 | 268.4 | 251.7 | 232.0 | 209.4 | 188.8 | 169.1 | 152.4 | 137.6 | 130.8 |
| 20° | 295.9 | 294.9 | 282.1 | 259.5 | 234.0 | 208.4 | 184.8 | 163.2 | 144.5 | 128.8 | 122.9 |
| 22.5° | 309.7 | 308.7 | 293.9 | 266.4 | 235.0 | 205.5 | 177.9 | 155.3 | 136.6 | 120.9 | 114.0 |
| 25° | 322.5 | 320.5 | 303.8 | 269.4 | 233.0 | 199.6 | 171.1 | 146.5 | 128.8 | 113.1 | 106.2 |
| 27.5° | 330.3 | 329.3 | 310.7 | 268.4 | 228.1 | 191.7 | 162.2 | 138.6 | 119.9 | 104.2 | 98.3 |
| 30° | 332.3 | 333.3 | 310.7 | 263.5 | 220.2 | 183.8 | 153.4 | 129.8 | 111.1 | 97.3 | 90.4 |
| 31° | 332.3 | 333.3 | 308.7 | 260.5 | 217.3 | 179.9 | 149.4 | 126.8 | 107.2 | 93.4 | 87.5 |
| 32.5° | 328.3 | 326.4 | 305.7 | 255.6 | 210.4 | 173.0 | 144.5 | 121.9 | 102.2 | 88.5 | 83.6 |
| 35° | 310.7 | 311.6 | 295.9 | 244.8 | 200.5 | 163.2 | 134.7 | 112.1 | 93.4 | 81.6 | 76.7 |
| 37.5° | 300.8 | 300.8 | 272.3 | 230.0 | 189.7 | 154.3 | 122.9 | 101.3 | 85.5 | 74.7 | 69.8 |
| 40° | 280.2 | 277.2 | 250.7 | 214.3 | 177.0 | 143.5 | 116.0 | 94.4 | 78.6 | 67.8 | 63.9 |
| 42.5° | 250.7 | 247.7 | 227.1 | 200.5 | 160.2 | 129.8 | 110.1 | 83.6 | 70.8 | 61.9 | 58.0 |
| 45° | 219.2 | 217.3 | 201.5 | 177.0 | 144.5 | 117.0 | 95.4 | 76.7 | 64.9 | 56.0 | 53.1 |
| 47.5° | 190.7 | 187.8 | 176.0 | 157.3 | 130.8 | 105.2 | 82.6 | 68.8 | 58.0 | 51.1 | 49.2 |
| 50° | 163.2 | 162.2 | 152.4 | 137.6 | 116.0 | 91.4 | 72.7 | 61.0 | 53.1 | 47.2 | 44.2 |
| 52.5° | 137.6 | 135.7 | 130.8 | 119.0 | 101.3 | 79.6 | 63.9 | 54.1 | 47.2 | 43.3 | 41.3 |
| 55° | 113.1 | 113.1 | 108.1 | 100.3 | 86.5 | 67.8 | 56.0 | 48.2 | 42.3 | 39.3 | 37.4 |
| 57.5° | 93.4 | 93.4 | 89.5 | 84.5 | 71.8 | 58.0 | 49.2 | 42.3 | 38.3 | 35.4 | 33.4 |
| 60° | 76.7 | 76.7 | 73.7 | 68.8 | 60.0 | 49.2 | 42.3 | 37.4 | 34.4 | 31.5 | 30.5 |
| 62.5° | 63.9 | 62.9 | 61.0 | 56.0 | 49.2 | 41.3 | 36.4 | 32.4 | 29.5 | 27.5 | 26.5 |
| 65° | 51.1 | 50.1 | 48.2 | 44.2 | 39.3 | 34.4 | 30.5 | 27.5 | 25.6 | 23.6 | 22.6 |
| 67.5° | 39.3 | 39.3 | 37.4 | 34.4 | 30.5 | 27.5 | 24.6 | 22.6 | 20.6 | 19.7 | 18.7 |
| 70° | 28.5 | 28.5 | 27.5 | 25.6 | 22.6 | 20.6 | 18.7 | 17.7 | 16.7 | 15.7 | 14.7 |
| 72.5° | 19.7 | 19.7 | 18.7 | 17.7 | 15.7 | 14.7 | 12.8 | 12.8 | 11.8 | 11.8 | 10.8 |
| 75° | 10.8 | 10.8 | 10.8 | 9.8 | 9.8 | 8.8 | 8.8 | 8.8 | 7.9 | 7.9 | 7.9 |
| 77.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.9 | 2.9 | 2.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 |
| 2.5° | 168.1 | 165.2 | 163.2 | 162.2 | 159.3 | 158.3 | 157.3 | 156.3 | 156.3 | 156.3 |
| 5° | 164.2 | 159.3 | 154.3 | 151.4 | 147.5 | 145.5 | 143.5 | 142.5 | 141.6 | 141.6 |
| 7.5° | 157.3 | 151.4 | 145.5 | 140.6 | 136.6 | 132.7 | 130.8 | 128.8 | 128.8 | 127.8 |
| 10° | 150.4 | 142.5 | 135.7 | 128.8 | 124.9 | 119.9 | 118.0 | 116.0 | 115.0 | 115.0 |
| 12.5° | 142.5 | 132.7 | 124.9 | 119.0 | 113.1 | 109.1 | 106.2 | 104.2 | 103.2 | 103.2 |
| 15° | 133.7 | 123.9 | 115.0 | 109.1 | 103.2 | 98.3 | 95.4 | 93.4 | 92.4 | 92.4 |
| 17.5° | 124.9 | 115.0 | 105.2 | 99.3 | 93.4 | 88.5 | 86.5 | 84.5 | 83.6 | 82.6 |
| 20° | 117.0 | 105.2 | 97.3 | 89.5 | 84.5 | 80.6 | 77.7 | 75.7 | 74.7 | 74.7 |
| 22.5° | 108.1 | 97.3 | 88.5 | 82.6 | 77.7 | 73.7 | 69.8 | 68.8 | 67.8 | 67.8 |
| 25° | 99.3 | 89.5 | 81.6 | 75.7 | 69.8 | 66.8 | 63.9 | 61.9 | 61.9 | 61.0 |
| 27.5° | 92.4 | 82.6 | 74.7 | 68.8 | 64.9 | 61.0 | 59.0 | 57.0 | 56.0 | 56.0 |
| 30° | 84.5 | 75.7 | 68.8 | 63.9 | 59.0 | 56.0 | 54.1 | 52.1 | 52.1 | 52.1 |
| 31° | 82.6 | 73.7 | 66.8 | 61.0 | 57.0 | 54.1 | 52.1 | 51.1 | 50.1 | 50.1 |
| 32.5° | 77.7 | 69.8 | 62.9 | 58.0 | 54.1 | 51.1 | 49.2 | 48.2 | 48.2 | 47.2 |
| 35° | 71.8 | 63.9 | 58.0 | 53.1 | 50.1 | 47.2 | 45.2 | 44.2 | 44.2 | 44.2 |
| 37.5° | 65.9 | 59.0 | 53.1 | 49.2 | 46.2 | 43.3 | 42.3 | 40.3 | 40.3 | 40.3 |
| 40° | 60.0 | 54.1 | 49.2 | 45.2 | 42.3 | 40.3 | 39.3 | 38.3 | 37.4 | 37.4 |
| 42.5° | 55.1 | 49.2 | 45.2 | 42.3 | 39.3 | 37.4 | 36.4 | 35.4 | 35.4 | 34.4 |
| 45° | 50.1 | 45.2 | 42.3 | 39.3 | 36.4 | 35.4 | 34.4 | 33.4 | 32.4 | 32.4 |
| 47.5° | 46.2 | 42.3 | 38.3 | 36.4 | 34.4 | 32.4 | 31.5 | 31.5 | 30.5 | 30.5 |
| 50° | 42.3 | 38.3 | 35.4 | 33.4 | 31.5 | 30.5 | 29.5 | 29.5 | 28.5 | 28.5 |
| 52.5° | 39.3 | 35.4 | 33.4 | 31.5 | 29.5 | 28.5 | 27.5 | 27.5 | 26.5 | 26.5 |
| 55° | 35.4 | 32.4 | 30.5 | 29.5 | 27.5 | 26.5 | 25.6 | 24.6 | 24.6 | 25.6 |
| 57.5° | 32.4 | 30.5 | 28.5 | 27.5 | 25.6 | 24.6 | 23.6 | 23.6 | 22.6 | 23.6 |
| 60° | 29.5 | 27.5 | 25.6 | 24.6 | 23.6 | 22.6 | 21.6 | 20.6 | 20.6 | 20.6 |
| 62.5° | 26.5 | 24.6 | 23.6 | 21.6 | 20.6 | 20.6 | 19.7 | 19.7 | 19.7 | 18.7 |
| 65° | 22.6 | 21.6 | 20.6 | 19.7 | 18.7 | 17.7 | 17.7 | 16.7 | 16.7 | 16.7 |
| 67.5° | 18.7 | 17.7 | 16.7 | 16.7 | 15.7 | 14.7 | 14.7 | 14.7 | 14.7 | 13.8 |
| 70° | 14.7 | 13.8 | 13.8 | 12.8 | 12.8 | 12.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 72.5° | 10.8 | 10.8 | 9.8 | 9.8 | 9.8 | 9.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 75° | 7.9 | 7.9 | 7.9 | 6.9 | 6.9 | 6.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 77.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 80° | 2.9 | 2.9 | 2.9 | 2.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 |
| 82.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 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)