

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: P1445540

Luminaire Tested: P3ART13R709024DE010 E3LCWW1H

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1445540
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: P3ART13R709024DE010 E3LCWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3LCWW1H TRIM
Light Source: -
Ballast/Driver: -

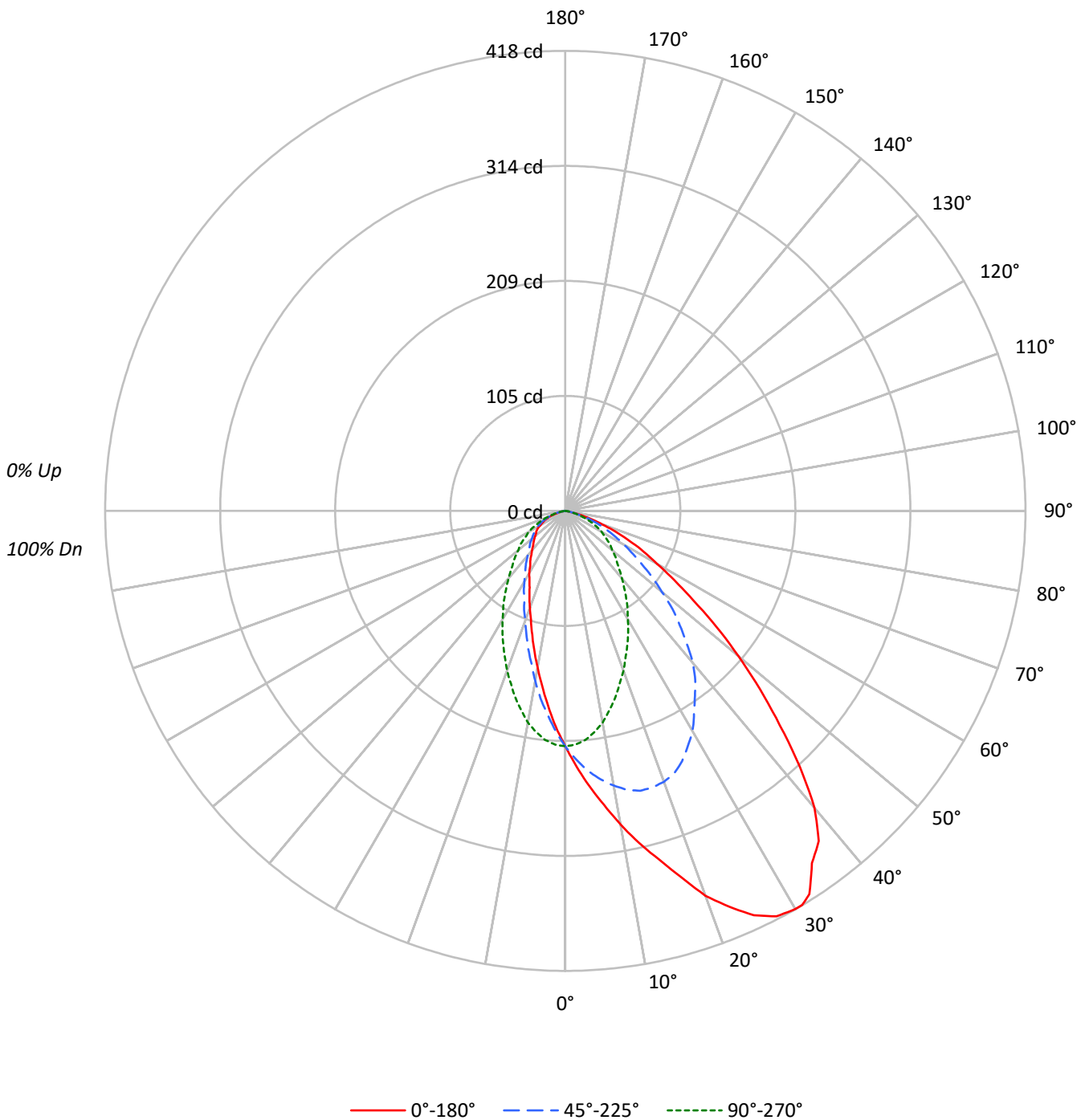
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 435.0 lumens
Efficiency: N/A
Efficacy: 29.8 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): 14.6
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: P1445540
CATALOG NUMBER: P3ART13R709024DE010 E3LCWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P1445540
 CATALOG NUMBER: P3ART13R709024DE010 E3LCWW1H

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° | 46882 | 46882 | 46882 | 46882 | 46882 |
| 5° | 55228 | 52234 | 45983 | 40810 | 39181 |
| 10° | 64394 | 56423 | 43486 | 34958 | 32197 |
| 15° | 74348 | 59773 | 39841 | 29467 | 26379 |
| 20° | 86808 | 61139 | 36053 | 24805 | 21912 |
| 25° | 98086 | 60705 | 32300 | 21243 | 18533 |
| 30° | 105788 | 58515 | 28789 | 18788 | 16585 |
| 35° | 104561 | 54930 | 25806 | 16865 | 14884 |
| 40° | 100817 | 51640 | 22986 | 15200 | 13454 |
| 45° | 85466 | 45617 | 20684 | 14172 | 12652 |
| 50° | 70002 | 39197 | 18967 | 13509 | 12213 |
| 55° | 54325 | 32611 | 17968 | 13228 | 12272 |
| 60° | 42277 | 27103 | 16797 | 13025 | 11403 |
| 65° | 33363 | 22467 | 14736 | 12193 | 10896 |
| 70° | 22953 | 16669 | 11861 | 10322 | 9489 |
| 75° | 11522 | 9404 | 8388 | 7371 | 6270 |
| 80° | 1515 | 3157 | 4672 | 3157 | 1515 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 85466 cd/sqm



TEST NUMBER: P1445540
 CATALOG NUMBER: P3ART13R709024DE010 E3LCWW1H

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 20.0 | 4.6 |
| 10°-20° | 55.7 | 12.8 |
| 20°-30° | 82.1 | 18.9 |
| 30°-40° | 92.0 | 21.2 |
| 40°-50° | 80.9 | 18.6 |
| 50°-60° | 57.9 | 13.3 |
| 60°-70° | 34.3 | 7.9 |
| 70°-80° | 11.5 | 2.6 |
| 80°-90° | 0.5 | 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° | 157.8 | 36.3 |
| 0°-40° | 249.8 | 57.4 |
| 0°-60° | 388.7 | 89.3 |
| 0°-90° | 435.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 435.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 214 | 214 | 214 | 214 | 214 | |
| 5° | 251 | 237 | 209 | 185 | 178 | 25 |
| 15° | 328 | 263 | 176 | 130 | 116 | 94 |
| 25° | 405 | 251 | 134 | 88 | 77 | 186 |
| 35° | 391 | 205 | 96 | 63 | 56 | 245 |
| 45° | 276 | 147 | 67 | 46 | 41 | 213 |
| 55° | 142 | 85 | 47 | 35 | 32 | 130 |
| 65° | 64 | 43 | 28 | 24 | 21 | 64 |
| 75° | 14 | 11 | 10 | 9 | 7 | 17 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1445540
 CATALOG NUMBER: P3ART13R709024DE010 E3LCWW1H

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 |
| 2.5° | 232.4 | 232.4 | 232.4 | 229.9 | 229.9 | 226.2 | 223.7 | 220.0 | 217.5 | 213.8 | 212.6 |
| 5° | 250.9 | 250.9 | 248.4 | 246.0 | 242.2 | 237.3 | 231.1 | 224.9 | 217.5 | 211.3 | 208.9 |
| 7.5° | 269.4 | 270.7 | 267.0 | 262.0 | 254.6 | 246.0 | 237.3 | 227.4 | 216.3 | 207.6 | 202.7 |
| 10° | 289.2 | 289.2 | 284.3 | 276.9 | 265.7 | 253.4 | 239.8 | 226.2 | 212.6 | 200.2 | 195.3 |
| 12.5° | 309.0 | 307.8 | 301.6 | 290.5 | 276.9 | 259.6 | 241.0 | 223.7 | 207.6 | 192.8 | 185.4 |
| 15° | 327.5 | 327.5 | 318.9 | 305.3 | 285.5 | 263.3 | 241.0 | 218.8 | 200.2 | 182.9 | 175.5 |
| 17.5° | 348.5 | 348.5 | 337.4 | 316.4 | 291.7 | 263.3 | 237.3 | 212.6 | 191.6 | 173.0 | 164.4 |
| 20° | 372.0 | 370.8 | 354.7 | 326.3 | 294.2 | 262.0 | 232.4 | 205.2 | 181.7 | 161.9 | 154.5 |
| 22.5° | 389.3 | 388.1 | 369.6 | 334.9 | 295.4 | 258.3 | 223.7 | 195.3 | 171.8 | 152.0 | 143.4 |
| 25° | 405.4 | 402.9 | 381.9 | 338.7 | 292.9 | 250.9 | 215.1 | 184.2 | 161.9 | 142.1 | 133.5 |
| 27.5° | 415.3 | 414.0 | 390.6 | 337.4 | 286.7 | 241.0 | 203.9 | 174.3 | 150.8 | 131.0 | 123.6 |
| 30° | 417.8 | 419.0 | 390.6 | 331.2 | 276.9 | 231.1 | 192.8 | 163.1 | 139.7 | 122.4 | 113.7 |
| 31° | 417.8 | 419.0 | 388.1 | 327.5 | 273.1 | 226.2 | 187.9 | 159.4 | 134.7 | 117.4 | 110.0 |
| 32.5° | 412.8 | 410.3 | 384.4 | 321.3 | 264.5 | 217.5 | 181.7 | 153.3 | 128.5 | 111.2 | 105.1 |
| 35° | 390.6 | 391.8 | 372.0 | 307.8 | 252.1 | 205.2 | 169.3 | 140.9 | 117.4 | 102.6 | 96.4 |
| 37.5° | 378.2 | 378.2 | 342.4 | 289.2 | 238.5 | 194.0 | 154.5 | 127.3 | 107.5 | 93.9 | 87.8 |
| 40° | 352.2 | 348.5 | 315.2 | 269.4 | 222.5 | 180.4 | 145.8 | 118.7 | 98.9 | 85.3 | 80.3 |
| 42.5° | 315.2 | 311.5 | 285.5 | 252.1 | 201.5 | 163.1 | 138.4 | 105.1 | 89.0 | 77.9 | 72.9 |
| 45° | 275.6 | 273.1 | 253.4 | 222.5 | 181.7 | 147.1 | 119.9 | 96.4 | 81.6 | 70.4 | 66.7 |
| 47.5° | 239.8 | 236.1 | 221.2 | 197.8 | 164.4 | 132.2 | 103.8 | 86.5 | 72.9 | 64.3 | 61.8 |
| 50° | 205.2 | 203.9 | 191.6 | 173.0 | 145.8 | 114.9 | 91.5 | 76.6 | 66.7 | 59.3 | 55.6 |
| 52.5° | 173.0 | 170.6 | 164.4 | 149.6 | 127.3 | 100.1 | 80.3 | 68.0 | 59.3 | 54.4 | 51.9 |
| 55° | 142.1 | 142.1 | 136.0 | 126.1 | 108.8 | 85.3 | 70.4 | 60.6 | 53.1 | 49.4 | 47.0 |
| 57.5° | 117.4 | 117.4 | 112.5 | 106.3 | 90.2 | 72.9 | 61.8 | 53.1 | 48.2 | 44.5 | 42.0 |
| 60° | 96.4 | 96.4 | 92.7 | 86.5 | 75.4 | 61.8 | 53.1 | 47.0 | 43.3 | 39.6 | 38.3 |
| 62.5° | 80.3 | 79.1 | 76.6 | 70.4 | 61.8 | 51.9 | 45.7 | 40.8 | 37.1 | 34.6 | 33.4 |
| 65° | 64.3 | 63.0 | 60.6 | 55.6 | 49.4 | 43.3 | 38.3 | 34.6 | 32.1 | 29.7 | 28.4 |
| 67.5° | 49.4 | 49.4 | 47.0 | 43.3 | 38.3 | 34.6 | 30.9 | 28.4 | 26.0 | 24.7 | 23.5 |
| 70° | 35.8 | 35.8 | 34.6 | 32.1 | 28.4 | 26.0 | 23.5 | 22.2 | 21.0 | 19.8 | 18.5 |
| 72.5° | 24.7 | 24.7 | 23.5 | 22.2 | 19.8 | 18.5 | 16.1 | 16.1 | 14.8 | 14.8 | 13.6 |
| 75° | 13.6 | 13.6 | 13.6 | 12.4 | 12.4 | 11.1 | 11.1 | 11.1 | 9.9 | 9.9 | 9.9 |
| 77.5° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 2.5 | 2.5 | 2.5 | 3.7 | 3.7 | 3.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 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: P1445540
 CATALOG NUMBER: P3ART13R709024DE010 E3LCWW1H

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 | 213.8 |
| 2.5° | 211.3 | 207.6 | 205.2 | 203.9 | 200.2 | 199.0 | 197.8 | 196.5 | 196.5 | 196.5 |
| 5° | 206.4 | 200.2 | 194.0 | 190.3 | 185.4 | 182.9 | 180.4 | 179.2 | 178.0 | 178.0 |
| 7.5° | 197.8 | 190.3 | 182.9 | 176.7 | 171.8 | 166.9 | 164.4 | 161.9 | 161.9 | 160.7 |
| 10° | 189.1 | 179.2 | 170.6 | 161.9 | 157.0 | 150.8 | 148.3 | 145.8 | 144.6 | 144.6 |
| 12.5° | 179.2 | 166.9 | 157.0 | 149.6 | 142.1 | 137.2 | 133.5 | 131.0 | 129.8 | 129.8 |
| 15° | 168.1 | 155.7 | 144.6 | 137.2 | 129.8 | 123.6 | 119.9 | 117.4 | 116.2 | 116.2 |
| 17.5° | 157.0 | 144.6 | 132.2 | 124.8 | 117.4 | 111.2 | 108.8 | 106.3 | 105.1 | 103.8 |
| 20° | 147.1 | 132.2 | 122.4 | 112.5 | 106.3 | 101.3 | 97.6 | 95.2 | 93.9 | 93.9 |
| 22.5° | 136.0 | 122.4 | 111.2 | 103.8 | 97.6 | 92.7 | 87.8 | 86.5 | 85.3 | 85.3 |
| 25° | 124.8 | 112.5 | 102.6 | 95.2 | 87.8 | 84.0 | 80.3 | 77.9 | 77.9 | 76.6 |
| 27.5° | 116.2 | 103.8 | 93.9 | 86.5 | 81.6 | 76.6 | 74.2 | 71.7 | 70.4 | 70.4 |
| 30° | 106.3 | 95.2 | 86.5 | 80.3 | 74.2 | 70.4 | 68.0 | 65.5 | 65.5 | 65.5 |
| 31° | 103.8 | 92.7 | 84.0 | 76.6 | 71.7 | 68.0 | 65.5 | 64.3 | 63.0 | 63.0 |
| 32.5° | 97.6 | 87.8 | 79.1 | 72.9 | 68.0 | 64.3 | 61.8 | 60.6 | 60.6 | 59.3 |
| 35° | 90.2 | 80.3 | 72.9 | 66.7 | 63.0 | 59.3 | 56.9 | 55.6 | 55.6 | 55.6 |
| 37.5° | 82.8 | 74.2 | 66.7 | 61.8 | 58.1 | 54.4 | 53.1 | 50.7 | 50.7 | 50.7 |
| 40° | 75.4 | 68.0 | 61.8 | 56.9 | 53.1 | 50.7 | 49.4 | 48.2 | 47.0 | 47.0 |
| 42.5° | 69.2 | 61.8 | 56.9 | 53.1 | 49.4 | 47.0 | 45.7 | 44.5 | 44.5 | 43.3 |
| 45° | 63.0 | 56.9 | 53.1 | 49.4 | 45.7 | 44.5 | 43.3 | 42.0 | 40.8 | 40.8 |
| 47.5° | 58.1 | 53.1 | 48.2 | 45.7 | 43.3 | 40.8 | 39.6 | 39.6 | 38.3 | 38.3 |
| 50° | 53.1 | 48.2 | 44.5 | 42.0 | 39.6 | 38.3 | 37.1 | 37.1 | 35.8 | 35.8 |
| 52.5° | 49.4 | 44.5 | 42.0 | 39.6 | 37.1 | 35.8 | 34.6 | 34.6 | 33.4 | 33.4 |
| 55° | 44.5 | 40.8 | 38.3 | 37.1 | 34.6 | 33.4 | 32.1 | 30.9 | 30.9 | 32.1 |
| 57.5° | 40.8 | 38.3 | 35.8 | 34.6 | 32.1 | 30.9 | 29.7 | 29.7 | 28.4 | 29.7 |
| 60° | 37.1 | 34.6 | 32.1 | 30.9 | 29.7 | 28.4 | 27.2 | 26.0 | 26.0 | 26.0 |
| 62.5° | 33.4 | 30.9 | 29.7 | 27.2 | 26.0 | 26.0 | 24.7 | 24.7 | 24.7 | 23.5 |
| 65° | 28.4 | 27.2 | 26.0 | 24.7 | 23.5 | 22.2 | 22.2 | 21.0 | 21.0 | 21.0 |
| 67.5° | 23.5 | 22.2 | 21.0 | 21.0 | 19.8 | 18.5 | 18.5 | 18.5 | 18.5 | 17.3 |
| 70° | 18.5 | 17.3 | 17.3 | 16.1 | 16.1 | 16.1 | 14.8 | 14.8 | 14.8 | 14.8 |
| 72.5° | 13.6 | 13.6 | 12.4 | 12.4 | 12.4 | 12.4 | 11.1 | 11.1 | 11.1 | 11.1 |
| 75° | 9.9 | 9.9 | 9.9 | 8.7 | 8.7 | 8.7 | 7.4 | 7.4 | 7.4 | 7.4 |
| 77.5° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 80° | 3.7 | 3.7 | 3.7 | 3.7 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 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)