

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: P1446467

Luminaire Tested: P3ART13R709730DE010 E3LSWW1WMH

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446467
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: P3ART13R709730DE010 E3LSWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3LSWW1WMH TRIM
Light Source: -
Ballast/Driver: -

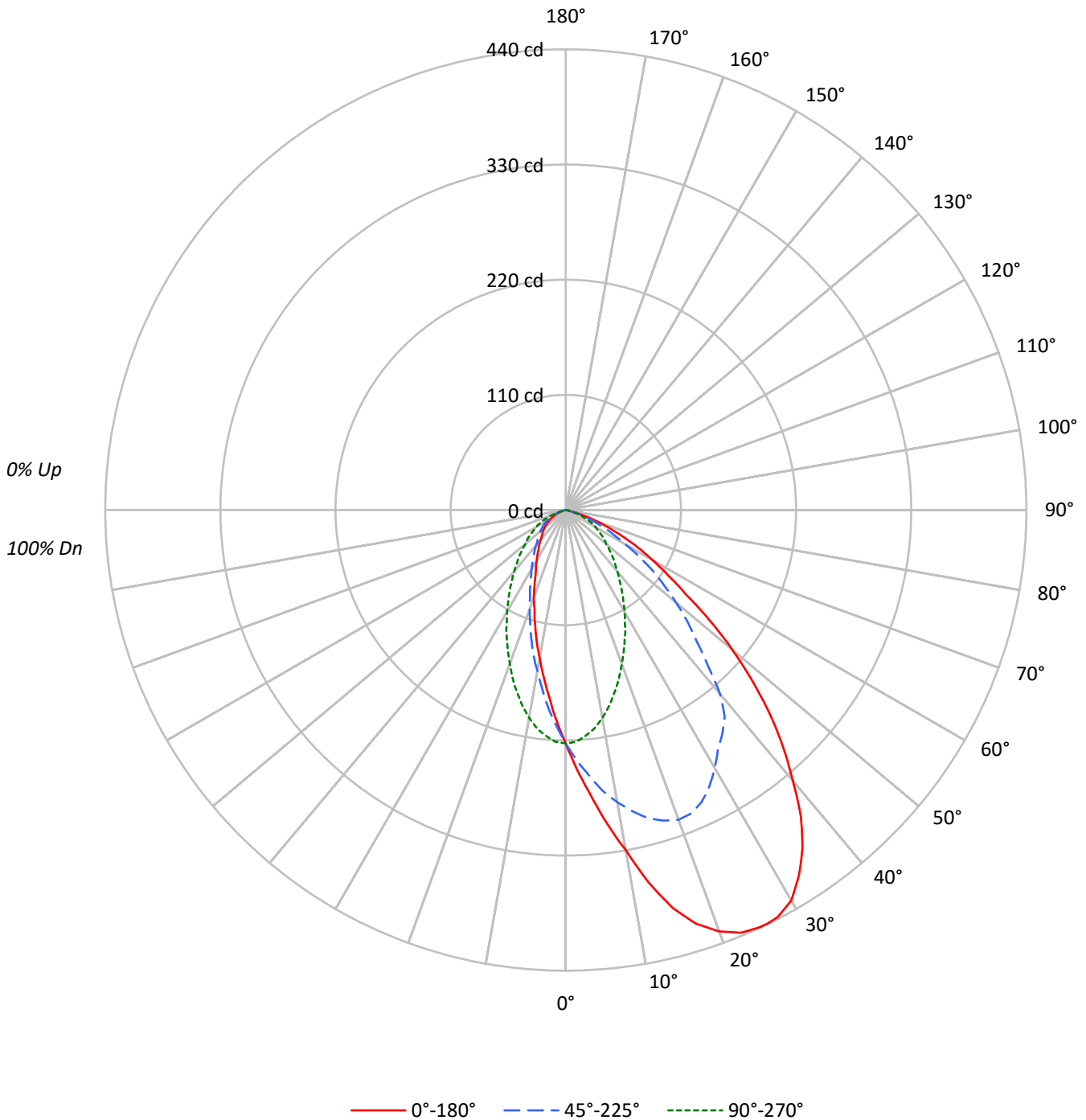
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 444.0 lumens
Efficiency: N/A
Efficacy: 30.4 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): 14.6
Input Voltage (V): NR
Input Current (Ain): 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: P1446467
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Luminous Intensity Polar Plot





TEST NUMBER: P1446467

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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 | 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° | 48878 | 48878 | 48878 | 48878 | 48878 |
| 5° | 60158 | 55998 | 47678 | 41866 | 39643 |
| 10° | 73457 | 63081 | 44867 | 34780 | 31974 |
| 15° | 89195 | 69194 | 40886 | 28876 | 25721 |
| 20° | 99922 | 73460 | 36450 | 23499 | 20862 |
| 25° | 106337 | 74351 | 32300 | 19501 | 16453 |
| 30° | 109055 | 72062 | 28384 | 16585 | 14027 |
| 35° | 105524 | 69787 | 24949 | 14161 | 12126 |
| 40° | 96610 | 65609 | 21984 | 12624 | 10820 |
| 45° | 85528 | 54672 | 19537 | 11722 | 9768 |
| 50° | 70889 | 46839 | 17193 | 10746 | 9006 |
| 55° | 53446 | 38995 | 15904 | 10093 | 8181 |
| 60° | 41970 | 29252 | 14341 | 9385 | 7192 |
| 65° | 31339 | 21585 | 12401 | 7835 | 5863 |
| 70° | 20196 | 13720 | 8912 | 5642 | 3206 |
| 75° | 8557 | 7456 | 4236 | 2118 | 1101 |
| 80° | 1642 | 1642 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 85528 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.1 | 4.8 |
| 10°-20° | 60.9 | 13.7 |
| 20°-30° | 89.0 | 20.0 |
| 30°-40° | 97.0 | 21.8 |
| 40°-50° | 83.9 | 18.9 |
| 50°-60° | 56.2 | 12.7 |
| 60°-70° | 29.0 | 6.5 |
| 70°-80° | 6.9 | 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° | 171.0 | 38.5 |
| 0°-40° | 267.9 | 60.3 |
| 0°-60° | 408.0 | 91.9 |
| 0°-90° | 444.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 444.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 223 | 223 | 223 | 223 | 223 | |
| 5° | 273 | 254 | 217 | 190 | 180 | 28 |
| 15° | 393 | 305 | 180 | 127 | 113 | 111 |
| 25° | 440 | 307 | 134 | 81 | 68 | 202 |
| 35° | 394 | 261 | 93 | 53 | 45 | 244 |
| 45° | 276 | 176 | 63 | 38 | 32 | 211 |
| 55° | 140 | 102 | 42 | 26 | 21 | 129 |
| 65° | 60 | 42 | 24 | 15 | 11 | 61 |
| 75° | 10 | 9 | 5 | 2 | 1 | 13 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1446467

CATALOG NUMBER: P3ART13R709730DE010 E3LSWW1WMH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 |
| 2.5° | 248.1 | 246.8 | 246.8 | 244.3 | 241.8 | 239.3 | 235.5 | 231.7 | 227.9 | 224.2 | 221.6 |
| 5° | 273.3 | 274.5 | 273.3 | 268.2 | 261.9 | 254.4 | 246.8 | 238.0 | 229.2 | 221.6 | 216.6 |
| 7.5° | 302.2 | 302.2 | 298.5 | 292.2 | 283.3 | 270.7 | 258.2 | 243.0 | 229.2 | 216.6 | 210.3 |
| 10° | 329.9 | 329.9 | 323.6 | 313.6 | 299.7 | 283.3 | 265.7 | 245.6 | 226.7 | 209.0 | 201.5 |
| 12.5° | 363.9 | 362.7 | 355.1 | 338.8 | 318.6 | 294.7 | 270.7 | 245.6 | 222.9 | 201.5 | 191.4 |
| 15° | 392.9 | 391.6 | 381.6 | 361.4 | 335.0 | 304.8 | 272.0 | 243.0 | 215.3 | 191.4 | 180.1 |
| 17.5° | 414.3 | 411.8 | 400.5 | 379.0 | 348.8 | 311.0 | 273.3 | 238.0 | 206.5 | 180.1 | 168.7 |
| 20° | 428.2 | 426.9 | 414.3 | 389.1 | 356.4 | 314.8 | 272.0 | 231.7 | 197.7 | 168.7 | 156.2 |
| 22.5° | 437.0 | 434.5 | 421.9 | 394.2 | 356.4 | 313.6 | 267.0 | 222.9 | 186.4 | 157.4 | 144.8 |
| 25° | 439.5 | 438.2 | 423.1 | 392.9 | 352.6 | 307.3 | 259.4 | 214.1 | 175.0 | 146.1 | 133.5 |
| 26° | 439.5 | 438.2 | 423.1 | 391.6 | 350.1 | 303.5 | 255.6 | 210.3 | 171.3 | 141.0 | 129.7 |
| 27.5° | 438.2 | 437.0 | 420.6 | 387.9 | 345.0 | 297.2 | 248.1 | 202.7 | 163.7 | 134.7 | 122.2 |
| 30° | 430.7 | 428.2 | 411.8 | 379.0 | 333.7 | 284.6 | 235.5 | 191.4 | 152.4 | 123.4 | 112.1 |
| 32.5° | 414.3 | 411.8 | 394.2 | 363.9 | 321.1 | 270.7 | 221.6 | 178.8 | 141.0 | 112.1 | 102.0 |
| 35° | 394.2 | 391.6 | 374.0 | 345.0 | 303.5 | 260.7 | 206.5 | 165.0 | 128.4 | 103.3 | 93.2 |
| 37.5° | 369.0 | 365.2 | 350.1 | 319.9 | 282.1 | 249.3 | 193.9 | 151.1 | 117.1 | 93.2 | 84.4 |
| 40° | 337.5 | 336.2 | 322.4 | 294.7 | 256.9 | 229.2 | 186.4 | 151.1 | 107.0 | 84.4 | 76.8 |
| 42.5° | 307.3 | 304.8 | 292.2 | 268.2 | 234.2 | 200.2 | 163.7 | 144.8 | 99.5 | 75.6 | 69.3 |
| 45° | 275.8 | 273.3 | 261.9 | 241.8 | 210.3 | 176.3 | 176.3 | 124.7 | 85.6 | 69.3 | 63.0 |
| 47.5° | 241.8 | 239.3 | 230.5 | 215.3 | 187.6 | 157.4 | 128.4 | 102.0 | 78.1 | 61.7 | 56.7 |
| 50° | 207.8 | 209.0 | 201.5 | 186.4 | 165.0 | 137.3 | 110.8 | 85.6 | 66.7 | 55.4 | 50.4 |
| 52.5° | 173.8 | 172.5 | 167.5 | 157.4 | 142.3 | 118.4 | 94.4 | 73.0 | 57.9 | 49.1 | 46.6 |
| 55° | 139.8 | 141.0 | 138.5 | 132.2 | 119.6 | 102.0 | 79.3 | 63.0 | 51.6 | 44.1 | 41.6 |
| 57.5° | 115.9 | 117.1 | 112.1 | 108.3 | 98.2 | 83.1 | 65.5 | 52.9 | 44.1 | 39.0 | 36.5 |
| 60° | 95.7 | 97.0 | 93.2 | 88.2 | 80.6 | 66.7 | 52.9 | 44.1 | 39.0 | 35.3 | 32.7 |
| 62.5° | 78.1 | 76.8 | 74.3 | 69.3 | 63.0 | 52.9 | 42.8 | 36.5 | 32.7 | 30.2 | 29.0 |
| 65° | 60.4 | 60.4 | 57.9 | 54.1 | 49.1 | 41.6 | 34.0 | 30.2 | 27.7 | 25.2 | 23.9 |
| 67.5° | 45.3 | 45.3 | 42.8 | 40.3 | 35.3 | 30.2 | 26.4 | 23.9 | 22.7 | 20.1 | 18.9 |
| 70° | 31.5 | 31.5 | 30.2 | 29.0 | 25.2 | 21.4 | 20.1 | 17.6 | 16.4 | 15.1 | 13.9 |
| 72.5° | 20.1 | 20.1 | 20.1 | 17.6 | 16.4 | 13.9 | 13.9 | 12.6 | 11.3 | 10.1 | 10.1 |
| 75° | 10.1 | 11.3 | 10.1 | 10.1 | 8.8 | 8.8 | 7.6 | 7.6 | 6.3 | 6.3 | 5.0 |
| 77.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 80° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 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: P1446467
 CATALOG NUMBER: P3ART13R709730DE010 E3LSWW1WMH

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 |
| 2.5° | 219.1 | 215.3 | 212.8 | 209.0 | 206.5 | 204.0 | 202.7 | 201.5 | 201.5 | 201.5 |
| 5° | 212.8 | 206.5 | 200.2 | 193.9 | 190.2 | 186.4 | 182.6 | 181.3 | 180.1 | 180.1 |
| 7.5° | 205.3 | 195.2 | 186.4 | 178.8 | 172.5 | 168.7 | 165.0 | 162.4 | 161.2 | 161.2 |
| 10° | 195.2 | 182.6 | 172.5 | 162.4 | 156.2 | 151.1 | 148.6 | 144.8 | 144.8 | 143.6 |
| 12.5° | 183.9 | 168.7 | 157.4 | 148.6 | 142.3 | 136.0 | 132.2 | 129.7 | 128.4 | 128.4 |
| 15° | 171.3 | 156.2 | 143.6 | 133.5 | 127.2 | 120.9 | 117.1 | 114.6 | 113.3 | 113.3 |
| 17.5° | 158.7 | 142.3 | 129.7 | 119.6 | 113.3 | 107.0 | 103.3 | 100.7 | 100.7 | 99.5 |
| 20° | 146.1 | 129.7 | 117.1 | 107.0 | 100.7 | 95.7 | 91.9 | 89.4 | 88.2 | 89.4 |
| 22.5° | 134.7 | 118.4 | 105.8 | 97.0 | 89.4 | 84.4 | 80.6 | 79.3 | 78.1 | 78.1 |
| 25° | 122.2 | 107.0 | 95.7 | 86.9 | 80.6 | 75.6 | 71.8 | 70.5 | 69.3 | 68.0 |
| 26° | 118.4 | 103.3 | 91.9 | 83.1 | 76.8 | 71.8 | 69.3 | 66.7 | 65.5 | 65.5 |
| 27.5° | 113.3 | 97.0 | 86.9 | 78.1 | 71.8 | 68.0 | 64.2 | 63.0 | 61.7 | 61.7 |
| 30° | 102.0 | 88.2 | 78.1 | 70.5 | 65.5 | 60.4 | 57.9 | 56.7 | 55.4 | 55.4 |
| 32.5° | 93.2 | 79.3 | 70.5 | 64.2 | 59.2 | 55.4 | 52.9 | 50.4 | 50.4 | 50.4 |
| 35° | 84.4 | 71.8 | 64.2 | 57.9 | 52.9 | 49.1 | 47.9 | 46.6 | 45.3 | 45.3 |
| 37.5° | 76.8 | 65.5 | 57.9 | 52.9 | 49.1 | 45.3 | 42.8 | 41.6 | 41.6 | 41.6 |
| 40° | 69.3 | 60.4 | 52.9 | 47.9 | 44.1 | 41.6 | 39.0 | 37.8 | 37.8 | 37.8 |
| 42.5° | 63.0 | 54.1 | 49.1 | 44.1 | 40.3 | 37.8 | 36.5 | 35.3 | 34.0 | 34.0 |
| 45° | 57.9 | 50.4 | 44.1 | 40.3 | 37.8 | 35.3 | 32.7 | 31.5 | 31.5 | 31.5 |
| 47.5° | 51.6 | 46.6 | 40.3 | 36.5 | 34.0 | 31.5 | 30.2 | 29.0 | 29.0 | 29.0 |
| 50° | 47.9 | 42.8 | 37.8 | 34.0 | 31.5 | 29.0 | 27.7 | 26.4 | 26.4 | 26.4 |
| 52.5° | 42.8 | 39.0 | 35.3 | 31.5 | 29.0 | 26.4 | 25.2 | 23.9 | 23.9 | 23.9 |
| 55° | 39.0 | 35.3 | 31.5 | 29.0 | 26.4 | 23.9 | 22.7 | 21.4 | 21.4 | 21.4 |
| 57.5° | 35.3 | 31.5 | 29.0 | 26.4 | 23.9 | 22.7 | 20.1 | 20.1 | 18.9 | 18.9 |
| 60° | 31.5 | 27.7 | 25.2 | 23.9 | 21.4 | 20.1 | 17.6 | 16.4 | 16.4 | 16.4 |
| 62.5° | 26.4 | 25.2 | 22.7 | 20.1 | 17.6 | 16.4 | 15.1 | 13.9 | 13.9 | 13.9 |
| 65° | 22.7 | 21.4 | 18.9 | 16.4 | 15.1 | 13.9 | 12.6 | 11.3 | 11.3 | 11.3 |
| 67.5° | 18.9 | 16.4 | 15.1 | 13.9 | 12.6 | 11.3 | 10.1 | 8.8 | 7.6 | 8.8 |
| 70° | 13.9 | 12.6 | 11.3 | 10.1 | 8.8 | 7.6 | 6.3 | 6.3 | 5.0 | 5.0 |
| 72.5° | 8.8 | 7.6 | 7.6 | 6.3 | 5.0 | 5.0 | 3.8 | 3.8 | 2.5 | 2.5 |
| 75° | 5.0 | 5.0 | 3.8 | 3.8 | 2.5 | 2.5 | 1.3 | 1.3 | 1.3 | 1.3 |
| 77.5° | 2.5 | 1.3 | 1.3 | 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)