

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: P3ART13R709830DE010 E3CLSWW1MW

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: P3ART13R709830DE010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

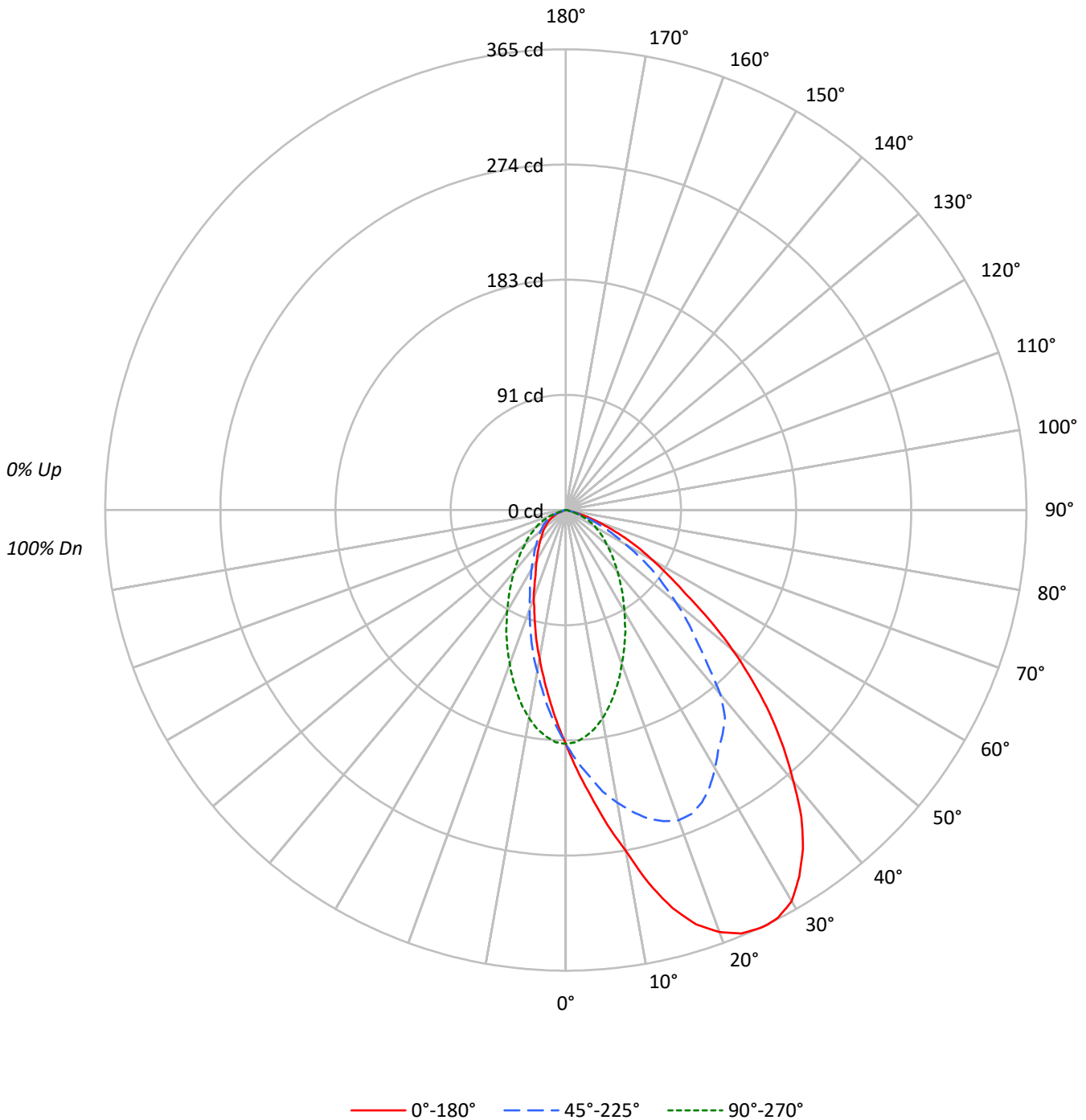
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 369.0 lumens
Efficiency: N/A
Efficacy: 25.4 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): 14.5
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: P#
CATALOG NUMBER: P3ART13R709830DE010 E3CLSWW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P#
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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 | 90 | 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° | 40611 | 40611 | 40611 | 40611 | 40611 |
| 5° | 49989 | 46533 | 39621 | 34779 | 32952 |
| 10° | 61054 | 52437 | 37296 | 28902 | 26564 |
| 15° | 74121 | 57503 | 33984 | 23996 | 21385 |
| 20° | 83027 | 61045 | 30289 | 19532 | 17338 |
| 25° | 88384 | 61794 | 26832 | 16211 | 13670 |
| 30° | 90622 | 59883 | 23573 | 13774 | 11647 |
| 35° | 87696 | 57982 | 20719 | 11778 | 10092 |
| 40° | 80293 | 54531 | 18263 | 10477 | 8988 |
| 45° | 71077 | 45431 | 16219 | 9737 | 8125 |
| 50° | 58915 | 38924 | 14294 | 8938 | 7505 |
| 55° | 44424 | 32419 | 13189 | 8411 | 6805 |
| 60° | 34866 | 24340 | 11929 | 7806 | 5964 |
| 65° | 26047 | 17901 | 10325 | 6538 | 4877 |
| 70° | 16798 | 11412 | 7373 | 4680 | 2693 |
| 75° | 7117 | 6185 | 3558 | 1779 | 847 |
| 80° | 1263 | 1263 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 71077 cd/sqm



TEST NUMBER: P#
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.6 | 4.8 |
| 10°-20° | 50.6 | 13.7 |
| 20°-30° | 74.0 | 20.0 |
| 30°-40° | 80.6 | 21.8 |
| 40°-50° | 69.7 | 18.9 |
| 50°-60° | 46.7 | 12.7 |
| 60°-70° | 24.1 | 6.5 |
| 70°-80° | 5.7 | 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° | 142.1 | 38.5 |
| 0°-40° | 222.7 | 60.3 |
| 0°-60° | 339.1 | 91.9 |
| 0°-90° | 369.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 369.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 185 | 185 | 185 | 185 | 185 | |
| 5° | 227 | 211 | 180 | 158 | 150 | 23 |
| 15° | 326 | 253 | 150 | 106 | 94 | 92 |
| 25° | 365 | 255 | 111 | 67 | 56 | 168 |
| 35° | 328 | 217 | 77 | 44 | 38 | 203 |
| 45° | 229 | 146 | 52 | 31 | 26 | 175 |
| 55° | 116 | 85 | 34 | 22 | 18 | 108 |
| 65° | 50 | 34 | 20 | 13 | 9 | 51 |
| 75° | 8 | 7 | 4 | 2 | 1 | 11 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#
 CATALOG NUMBER: P3ART13R709830DE010 E3CLSWW1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 |
| 2.5° | 206.2 | 205.1 | 205.1 | 203.0 | 200.9 | 198.9 | 195.7 | 192.6 | 189.4 | 186.3 | 184.2 |
| 5° | 227.1 | 228.2 | 227.1 | 222.9 | 217.7 | 211.4 | 205.1 | 197.8 | 190.5 | 184.2 | 180.0 |
| 7.5° | 251.2 | 251.2 | 248.0 | 242.8 | 235.5 | 225.0 | 214.5 | 202.0 | 190.5 | 180.0 | 174.8 |
| 10° | 274.2 | 274.2 | 269.0 | 260.6 | 249.1 | 235.5 | 220.8 | 204.1 | 188.4 | 173.7 | 167.5 |
| 12.5° | 302.5 | 301.4 | 295.1 | 281.5 | 264.8 | 244.9 | 225.0 | 204.1 | 185.2 | 167.5 | 159.1 |
| 15° | 326.5 | 325.5 | 317.1 | 300.4 | 278.4 | 253.3 | 226.1 | 202.0 | 179.0 | 159.1 | 149.7 |
| 17.5° | 344.3 | 342.2 | 332.8 | 315.0 | 289.9 | 258.5 | 227.1 | 197.8 | 171.6 | 149.7 | 140.2 |
| 20° | 355.8 | 354.8 | 344.3 | 323.4 | 296.2 | 261.6 | 226.1 | 192.6 | 164.3 | 140.2 | 129.8 |
| 22.5° | 363.2 | 361.1 | 350.6 | 327.6 | 296.2 | 260.6 | 221.9 | 185.2 | 154.9 | 130.8 | 120.4 |
| 25° | 365.3 | 364.2 | 351.7 | 326.5 | 293.0 | 255.4 | 215.6 | 177.9 | 145.5 | 121.4 | 110.9 |
| 26° | 365.3 | 364.2 | 351.7 | 325.5 | 290.9 | 252.2 | 212.5 | 174.8 | 142.3 | 117.2 | 107.8 |
| 27.5° | 364.2 | 363.2 | 349.6 | 322.3 | 286.8 | 247.0 | 206.2 | 168.5 | 136.1 | 112.0 | 101.5 |
| 30° | 357.9 | 355.8 | 342.2 | 315.0 | 277.3 | 236.5 | 195.7 | 159.1 | 126.6 | 102.6 | 93.1 |
| 32.5° | 344.3 | 342.2 | 327.6 | 302.5 | 266.9 | 225.0 | 184.2 | 148.6 | 117.2 | 93.1 | 84.8 |
| 35° | 327.6 | 325.5 | 310.8 | 286.8 | 252.2 | 216.6 | 171.6 | 137.1 | 106.8 | 85.8 | 77.4 |
| 37.5° | 306.6 | 303.5 | 290.9 | 265.8 | 234.4 | 207.2 | 161.2 | 125.6 | 97.3 | 77.4 | 70.1 |
| 40° | 280.5 | 279.4 | 267.9 | 244.9 | 213.5 | 190.5 | 154.9 | 125.6 | 89.0 | 70.1 | 63.8 |
| 42.5° | 255.4 | 253.3 | 242.8 | 222.9 | 194.7 | 166.4 | 136.1 | 120.4 | 82.7 | 62.8 | 57.6 |
| 45° | 229.2 | 227.1 | 217.7 | 200.9 | 174.8 | 146.5 | 146.5 | 103.6 | 71.2 | 57.6 | 52.3 |
| 47.5° | 200.9 | 198.9 | 191.5 | 179.0 | 155.9 | 130.8 | 106.8 | 84.8 | 64.9 | 51.3 | 47.1 |
| 50° | 172.7 | 173.7 | 167.5 | 154.9 | 137.1 | 114.1 | 92.1 | 71.2 | 55.5 | 46.0 | 41.9 |
| 52.5° | 144.4 | 143.4 | 139.2 | 130.8 | 118.3 | 98.4 | 78.5 | 60.7 | 48.1 | 40.8 | 38.7 |
| 55° | 116.2 | 117.2 | 115.1 | 109.9 | 99.4 | 84.8 | 65.9 | 52.3 | 42.9 | 36.6 | 34.5 |
| 57.5° | 96.3 | 97.3 | 93.1 | 90.0 | 81.6 | 69.1 | 54.4 | 44.0 | 36.6 | 32.4 | 30.4 |
| 60° | 79.5 | 80.6 | 77.4 | 73.3 | 67.0 | 55.5 | 44.0 | 36.6 | 32.4 | 29.3 | 27.2 |
| 62.5° | 64.9 | 63.8 | 61.7 | 57.6 | 52.3 | 44.0 | 35.6 | 30.4 | 27.2 | 25.1 | 24.1 |
| 65° | 50.2 | 50.2 | 48.1 | 45.0 | 40.8 | 34.5 | 28.3 | 25.1 | 23.0 | 20.9 | 19.9 |
| 67.5° | 37.7 | 37.7 | 35.6 | 33.5 | 29.3 | 25.1 | 22.0 | 19.9 | 18.8 | 16.7 | 15.7 |
| 70° | 26.2 | 26.2 | 25.1 | 24.1 | 20.9 | 17.8 | 16.7 | 14.7 | 13.6 | 12.6 | 11.5 |
| 72.5° | 16.7 | 16.7 | 16.7 | 14.7 | 13.6 | 11.5 | 11.5 | 10.5 | 9.4 | 8.4 | 8.4 |
| 75° | 8.4 | 9.4 | 8.4 | 8.4 | 7.3 | 7.3 | 6.3 | 6.3 | 5.2 | 5.2 | 4.2 |
| 77.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 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 | 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: P3ART13R709830DE010 E3CLSWW1MW

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 |
| 2.5° | 182.1 | 179.0 | 176.9 | 173.7 | 171.6 | 169.5 | 168.5 | 167.5 | 167.5 | 167.5 |
| 5° | 176.9 | 171.6 | 166.4 | 161.2 | 158.0 | 154.9 | 151.8 | 150.7 | 149.7 | 149.7 |
| 7.5° | 170.6 | 162.2 | 154.9 | 148.6 | 143.4 | 140.2 | 137.1 | 135.0 | 134.0 | 134.0 |
| 10° | 162.2 | 151.8 | 143.4 | 135.0 | 129.8 | 125.6 | 123.5 | 120.4 | 120.4 | 119.3 |
| 12.5° | 152.8 | 140.2 | 130.8 | 123.5 | 118.3 | 113.0 | 109.9 | 107.8 | 106.8 | 106.8 |
| 15° | 142.3 | 129.8 | 119.3 | 110.9 | 105.7 | 100.5 | 97.3 | 95.2 | 94.2 | 94.2 |
| 17.5° | 131.9 | 118.3 | 107.8 | 99.4 | 94.2 | 89.0 | 85.8 | 83.7 | 83.7 | 82.7 |
| 20° | 121.4 | 107.8 | 97.3 | 89.0 | 83.7 | 79.5 | 76.4 | 74.3 | 73.3 | 74.3 |
| 22.5° | 112.0 | 98.4 | 87.9 | 80.6 | 74.3 | 70.1 | 67.0 | 65.9 | 64.9 | 64.9 |
| 25° | 101.5 | 89.0 | 79.5 | 72.2 | 67.0 | 62.8 | 59.7 | 58.6 | 57.6 | 56.5 |
| 26° | 98.4 | 85.8 | 76.4 | 69.1 | 63.8 | 59.7 | 57.6 | 55.5 | 54.4 | 54.4 |
| 27.5° | 94.2 | 80.6 | 72.2 | 64.9 | 59.7 | 56.5 | 53.4 | 52.3 | 51.3 | 51.3 |
| 30° | 84.8 | 73.3 | 64.9 | 58.6 | 54.4 | 50.2 | 48.1 | 47.1 | 46.0 | 46.0 |
| 32.5° | 77.4 | 65.9 | 58.6 | 53.4 | 49.2 | 46.0 | 44.0 | 41.9 | 41.9 | 41.9 |
| 35° | 70.1 | 59.7 | 53.4 | 48.1 | 44.0 | 40.8 | 39.8 | 38.7 | 37.7 | 37.7 |
| 37.5° | 63.8 | 54.4 | 48.1 | 44.0 | 40.8 | 37.7 | 35.6 | 34.5 | 34.5 | 34.5 |
| 40° | 57.6 | 50.2 | 44.0 | 39.8 | 36.6 | 34.5 | 32.4 | 31.4 | 31.4 | 31.4 |
| 42.5° | 52.3 | 45.0 | 40.8 | 36.6 | 33.5 | 31.4 | 30.4 | 29.3 | 28.3 | 28.3 |
| 45° | 48.1 | 41.9 | 36.6 | 33.5 | 31.4 | 29.3 | 27.2 | 26.2 | 26.2 | 26.2 |
| 47.5° | 42.9 | 38.7 | 33.5 | 30.4 | 28.3 | 26.2 | 25.1 | 24.1 | 24.1 | 24.1 |
| 50° | 39.8 | 35.6 | 31.4 | 28.3 | 26.2 | 24.1 | 23.0 | 22.0 | 22.0 | 22.0 |
| 52.5° | 35.6 | 32.4 | 29.3 | 26.2 | 24.1 | 22.0 | 20.9 | 19.9 | 19.9 | 19.9 |
| 55° | 32.4 | 29.3 | 26.2 | 24.1 | 22.0 | 19.9 | 18.8 | 17.8 | 17.8 | 17.8 |
| 57.5° | 29.3 | 26.2 | 24.1 | 22.0 | 19.9 | 18.8 | 16.7 | 16.7 | 15.7 | 15.7 |
| 60° | 26.2 | 23.0 | 20.9 | 19.9 | 17.8 | 16.7 | 14.7 | 13.6 | 13.6 | 13.6 |
| 62.5° | 22.0 | 20.9 | 18.8 | 16.7 | 14.7 | 13.6 | 12.6 | 11.5 | 11.5 | 11.5 |
| 65° | 18.8 | 17.8 | 15.7 | 13.6 | 12.6 | 11.5 | 10.5 | 9.4 | 9.4 | 9.4 |
| 67.5° | 15.7 | 13.6 | 12.6 | 11.5 | 10.5 | 9.4 | 8.4 | 7.3 | 6.3 | 7.3 |
| 70° | 11.5 | 10.5 | 9.4 | 8.4 | 7.3 | 6.3 | 5.2 | 5.2 | 4.2 | 4.2 |
| 72.5° | 7.3 | 6.3 | 6.3 | 5.2 | 4.2 | 4.2 | 3.1 | 3.1 | 2.1 | 2.1 |
| 75° | 4.2 | 4.2 | 3.1 | 3.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| 77.5° | 2.1 | 1.0 | 1.0 | 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)