

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: P1446837

Luminaire Tested: P3ART13R709827DE010 E3CLSWW1MW

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446837
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: P3ART13R709827DE010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

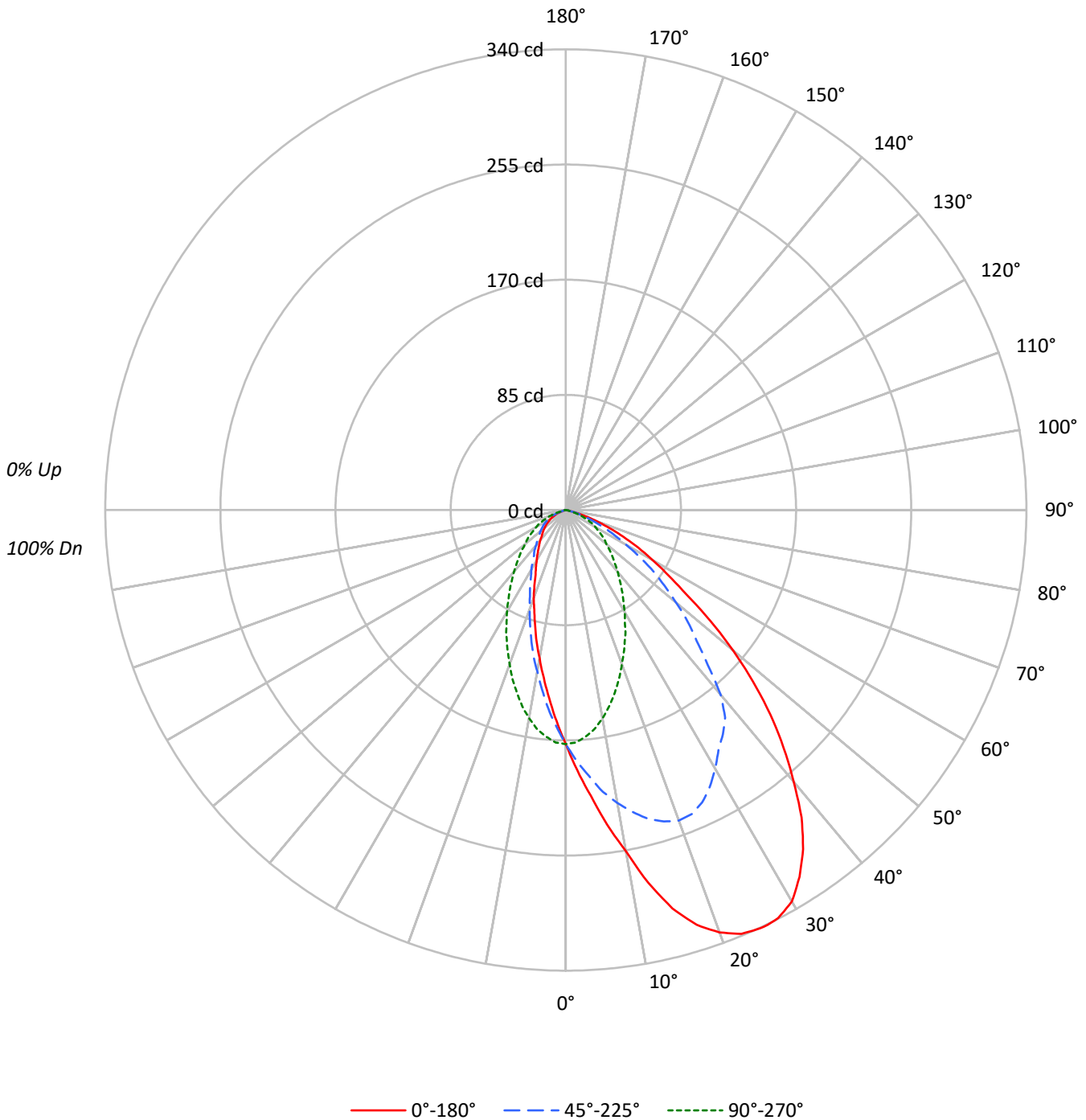
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 344.0 lumens
Efficiency: N/A
Efficacy: 23.7 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: P1446837
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Luminous Intensity Polar Plot





TEST NUMBER: P1446837

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 37870 | 37870 | 37870 | 37870 | 37870 |
| 5° | 46599 | 43385 | 36936 | 32423 | 30707 |
| 10° | 56913 | 48875 | 34758 | 26942 | 24760 |
| 15° | 69104 | 53598 | 31669 | 22361 | 19932 |
| 20° | 77403 | 56915 | 28236 | 18225 | 16171 |
| 25° | 82384 | 57608 | 25018 | 15098 | 12751 |
| 30° | 84494 | 55831 | 21978 | 12837 | 10862 |
| 35° | 81753 | 54074 | 19327 | 10975 | 9396 |
| 40° | 74855 | 50838 | 17032 | 9761 | 8387 |
| 45° | 66270 | 42361 | 15133 | 9086 | 7567 |
| 50° | 54924 | 36263 | 13304 | 8324 | 6993 |
| 55° | 41404 | 30202 | 12310 | 7837 | 6346 |
| 60° | 32541 | 22674 | 11139 | 7280 | 5570 |
| 65° | 24283 | 16707 | 9599 | 6071 | 4566 |
| 70° | 15644 | 10643 | 6860 | 4360 | 2500 |
| 75° | 6608 | 5761 | 3304 | 1694 | 847 |
| 80° | 1263 | 1263 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 66270 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 16.4 | 4.8 |
| 10°-20° | 47.1 | 13.7 |
| 20°-30° | 68.9 | 20.0 |
| 30°-40° | 75.1 | 21.8 |
| 40°-50° | 65.0 | 18.9 |
| 50°-60° | 43.5 | 12.7 |
| 60°-70° | 22.5 | 6.5 |
| 70°-80° | 5.3 | 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° | 132.5 | 38.5 |
| 0°-40° | 207.6 | 60.3 |
| 0°-60° | 316.1 | 91.9 |
| 0°-90° | 344.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 344.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 173 | 173 | 173 | 173 | 173 | |
| 5° | 212 | 197 | 168 | 147 | 140 | 22 |
| 15° | 304 | 236 | 140 | 98 | 88 | 86 |
| 25° | 340 | 238 | 103 | 62 | 53 | 156 |
| 35° | 305 | 202 | 72 | 41 | 35 | 189 |
| 45° | 214 | 137 | 49 | 29 | 24 | 164 |
| 55° | 108 | 79 | 32 | 20 | 17 | 100 |
| 65° | 47 | 32 | 18 | 12 | 9 | 47 |
| 75° | 8 | 7 | 4 | 2 | 1 | 10 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1446837
 CATALOG NUMBER: P3ART13R709827DE010 E3CLSWW1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 |
| 2.5° | 192.2 | 191.2 | 191.2 | 189.3 | 187.3 | 185.4 | 182.5 | 179.5 | 176.6 | 173.7 | 171.7 |
| 5° | 211.7 | 212.7 | 211.7 | 207.8 | 202.9 | 197.1 | 191.2 | 184.4 | 177.6 | 171.7 | 167.8 |
| 7.5° | 234.2 | 234.2 | 231.2 | 226.4 | 219.5 | 209.8 | 200.0 | 188.3 | 177.6 | 167.8 | 162.9 |
| 10° | 255.6 | 255.6 | 250.7 | 242.9 | 232.2 | 219.5 | 205.9 | 190.3 | 175.6 | 162.0 | 156.1 |
| 12.5° | 282.0 | 281.0 | 275.1 | 262.5 | 246.8 | 228.3 | 209.8 | 190.3 | 172.7 | 156.1 | 148.3 |
| 15° | 304.4 | 303.4 | 295.6 | 280.0 | 259.5 | 236.1 | 210.7 | 188.3 | 166.8 | 148.3 | 139.5 |
| 17.5° | 321.0 | 319.0 | 310.3 | 293.7 | 270.3 | 241.0 | 211.7 | 184.4 | 160.0 | 139.5 | 130.7 |
| 20° | 331.7 | 330.8 | 321.0 | 301.5 | 276.1 | 243.9 | 210.7 | 179.5 | 153.2 | 130.7 | 121.0 |
| 22.5° | 338.6 | 336.6 | 326.9 | 305.4 | 276.1 | 242.9 | 206.8 | 172.7 | 144.4 | 122.0 | 112.2 |
| 25° | 340.5 | 339.5 | 327.8 | 304.4 | 273.2 | 238.1 | 201.0 | 165.9 | 135.6 | 113.2 | 103.4 |
| 26° | 340.5 | 339.5 | 327.8 | 303.4 | 271.2 | 235.1 | 198.1 | 162.9 | 132.7 | 109.3 | 100.5 |
| 27.5° | 339.5 | 338.6 | 325.9 | 300.5 | 267.3 | 230.3 | 192.2 | 157.1 | 126.8 | 104.4 | 94.6 |
| 30° | 333.7 | 331.7 | 319.0 | 293.7 | 258.6 | 220.5 | 182.5 | 148.3 | 118.1 | 95.6 | 86.8 |
| 32.5° | 321.0 | 319.0 | 305.4 | 282.0 | 248.8 | 209.8 | 171.7 | 138.5 | 109.3 | 86.8 | 79.0 |
| 35° | 305.4 | 303.4 | 289.8 | 267.3 | 235.1 | 202.0 | 160.0 | 127.8 | 99.5 | 80.0 | 72.2 |
| 37.5° | 285.9 | 282.9 | 271.2 | 247.8 | 218.6 | 193.2 | 150.3 | 117.1 | 90.7 | 72.2 | 65.4 |
| 40° | 261.5 | 260.5 | 249.8 | 228.3 | 199.0 | 177.6 | 144.4 | 117.1 | 82.9 | 65.4 | 59.5 |
| 42.5° | 238.1 | 236.1 | 226.4 | 207.8 | 181.5 | 155.1 | 126.8 | 112.2 | 77.1 | 58.5 | 53.7 |
| 45° | 213.7 | 211.7 | 202.9 | 187.3 | 162.9 | 136.6 | 136.6 | 96.6 | 66.3 | 53.7 | 48.8 |
| 47.5° | 187.3 | 185.4 | 178.5 | 166.8 | 145.4 | 122.0 | 99.5 | 79.0 | 60.5 | 47.8 | 43.9 |
| 50° | 161.0 | 162.0 | 156.1 | 144.4 | 127.8 | 106.3 | 85.9 | 66.3 | 51.7 | 42.9 | 39.0 |
| 52.5° | 134.6 | 133.7 | 129.8 | 122.0 | 110.3 | 91.7 | 73.2 | 56.6 | 44.9 | 38.1 | 36.1 |
| 55° | 108.3 | 109.3 | 107.3 | 102.4 | 92.7 | 79.0 | 61.5 | 48.8 | 40.0 | 34.1 | 32.2 |
| 57.5° | 89.8 | 90.7 | 86.8 | 83.9 | 76.1 | 64.4 | 50.7 | 41.0 | 34.1 | 30.2 | 28.3 |
| 60° | 74.2 | 75.1 | 72.2 | 68.3 | 62.4 | 51.7 | 41.0 | 34.1 | 30.2 | 27.3 | 25.4 |
| 62.5° | 60.5 | 59.5 | 57.6 | 53.7 | 48.8 | 41.0 | 33.2 | 28.3 | 25.4 | 23.4 | 22.4 |
| 65° | 46.8 | 46.8 | 44.9 | 42.0 | 38.1 | 32.2 | 26.3 | 23.4 | 21.5 | 19.5 | 18.5 |
| 67.5° | 35.1 | 35.1 | 33.2 | 31.2 | 27.3 | 23.4 | 20.5 | 18.5 | 17.6 | 15.6 | 14.6 |
| 70° | 24.4 | 24.4 | 23.4 | 22.4 | 19.5 | 16.6 | 15.6 | 13.7 | 12.7 | 11.7 | 10.7 |
| 72.5° | 15.6 | 15.6 | 15.6 | 13.7 | 12.7 | 10.7 | 10.7 | 9.8 | 8.8 | 7.8 | 7.8 |
| 75° | 7.8 | 8.8 | 7.8 | 7.8 | 6.8 | 6.8 | 5.9 | 5.9 | 4.9 | 4.9 | 3.9 |
| 77.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 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: P1446837

CATALOG NUMBER: P3ART13R709827DE010 E3CLSWW1MW

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 |
| 2.5° | 169.8 | 166.8 | 164.9 | 162.0 | 160.0 | 158.1 | 157.1 | 156.1 | 156.1 | 156.1 |
| 5° | 164.9 | 160.0 | 155.1 | 150.3 | 147.3 | 144.4 | 141.5 | 140.5 | 139.5 | 139.5 |
| 7.5° | 159.0 | 151.2 | 144.4 | 138.5 | 133.7 | 130.7 | 127.8 | 125.9 | 124.9 | 124.9 |
| 10° | 151.2 | 141.5 | 133.7 | 125.9 | 121.0 | 117.1 | 115.1 | 112.2 | 112.2 | 111.2 |
| 12.5° | 142.4 | 130.7 | 122.0 | 115.1 | 110.3 | 105.4 | 102.4 | 100.5 | 99.5 | 99.5 |
| 15° | 132.7 | 121.0 | 111.2 | 103.4 | 98.5 | 93.7 | 90.7 | 88.8 | 87.8 | 87.8 |
| 17.5° | 122.9 | 110.3 | 100.5 | 92.7 | 87.8 | 82.9 | 80.0 | 78.1 | 78.1 | 77.1 |
| 20° | 113.2 | 100.5 | 90.7 | 82.9 | 78.1 | 74.2 | 71.2 | 69.3 | 68.3 | 69.3 |
| 22.5° | 104.4 | 91.7 | 82.0 | 75.1 | 69.3 | 65.4 | 62.4 | 61.5 | 60.5 | 60.5 |
| 25° | 94.6 | 82.9 | 74.2 | 67.3 | 62.4 | 58.5 | 55.6 | 54.6 | 53.7 | 52.7 |
| 26° | 91.7 | 80.0 | 71.2 | 64.4 | 59.5 | 55.6 | 53.7 | 51.7 | 50.7 | 50.7 |
| 27.5° | 87.8 | 75.1 | 67.3 | 60.5 | 55.6 | 52.7 | 49.8 | 48.8 | 47.8 | 47.8 |
| 30° | 79.0 | 68.3 | 60.5 | 54.6 | 50.7 | 46.8 | 44.9 | 43.9 | 42.9 | 42.9 |
| 32.5° | 72.2 | 61.5 | 54.6 | 49.8 | 45.9 | 42.9 | 41.0 | 39.0 | 39.0 | 39.0 |
| 35° | 65.4 | 55.6 | 49.8 | 44.9 | 41.0 | 38.1 | 37.1 | 36.1 | 35.1 | 35.1 |
| 37.5° | 59.5 | 50.7 | 44.9 | 41.0 | 38.1 | 35.1 | 33.2 | 32.2 | 32.2 | 32.2 |
| 40° | 53.7 | 46.8 | 41.0 | 37.1 | 34.1 | 32.2 | 30.2 | 29.3 | 29.3 | 29.3 |
| 42.5° | 48.8 | 42.0 | 38.1 | 34.1 | 31.2 | 29.3 | 28.3 | 27.3 | 26.3 | 26.3 |
| 45° | 44.9 | 39.0 | 34.1 | 31.2 | 29.3 | 27.3 | 25.4 | 24.4 | 24.4 | 24.4 |
| 47.5° | 40.0 | 36.1 | 31.2 | 28.3 | 26.3 | 24.4 | 23.4 | 22.4 | 22.4 | 22.4 |
| 50° | 37.1 | 33.2 | 29.3 | 26.3 | 24.4 | 22.4 | 21.5 | 20.5 | 20.5 | 20.5 |
| 52.5° | 33.2 | 30.2 | 27.3 | 24.4 | 22.4 | 20.5 | 19.5 | 18.5 | 18.5 | 18.5 |
| 55° | 30.2 | 27.3 | 24.4 | 22.4 | 20.5 | 18.5 | 17.6 | 16.6 | 16.6 | 16.6 |
| 57.5° | 27.3 | 24.4 | 22.4 | 20.5 | 18.5 | 17.6 | 15.6 | 15.6 | 14.6 | 14.6 |
| 60° | 24.4 | 21.5 | 19.5 | 18.5 | 16.6 | 15.6 | 13.7 | 12.7 | 12.7 | 12.7 |
| 62.5° | 20.5 | 19.5 | 17.6 | 15.6 | 13.7 | 12.7 | 11.7 | 10.7 | 10.7 | 10.7 |
| 65° | 17.6 | 16.6 | 14.6 | 12.7 | 11.7 | 10.7 | 9.8 | 8.8 | 8.8 | 8.8 |
| 67.5° | 14.6 | 12.7 | 11.7 | 10.7 | 9.8 | 8.8 | 7.8 | 6.8 | 5.9 | 6.8 |
| 70° | 10.7 | 9.8 | 8.8 | 7.8 | 6.8 | 5.9 | 4.9 | 4.9 | 3.9 | 3.9 |
| 72.5° | 6.8 | 5.9 | 5.9 | 4.9 | 3.9 | 3.9 | 2.9 | 2.9 | 2.0 | 2.0 |
| 75° | 3.9 | 3.9 | 2.9 | 2.9 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 77.5° | 2.0 | 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)