

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 E3LSWW1GPH

Issue Date: 5/8/2026

**Test Information**

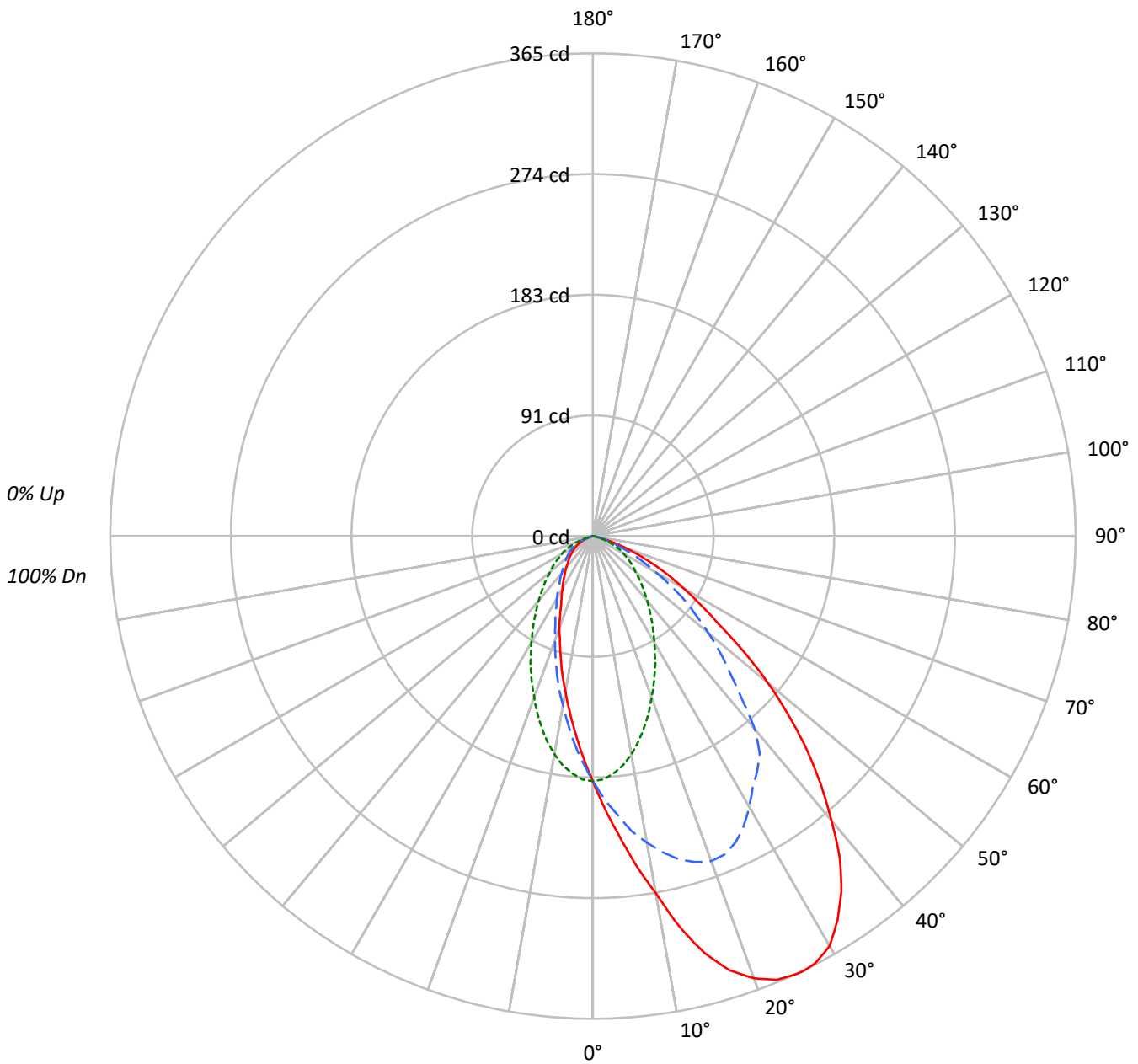
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709830DE010 E3LSWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3LSWW1GPH 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 (A<sub>in</sub>): 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#  
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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  | 89  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 90  | 85  | 91  | 87  | 83  | 88  | 85  | 81  | 85  | 82  | 80  | 78  | 78  | 78  | 78  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  | 68  | 68  | 68  |
| 4   | 88  | 78  | 70  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 60  | 60  | 60  | 60  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 62  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  | 53  | 53  | 53  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 51  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  | 47  | 47  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  | 43  | 43  | 43  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  | 39  | 39  | 39  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  | 35  | 35  | 35  |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  | 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 E3LSWW1GPH

**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 E3LSWW1GPH

**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)