

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: P1345927

Luminaire Tested: P3A13R409030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R409030D2WDE010 E3A301GPH  
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,  
E3A301GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

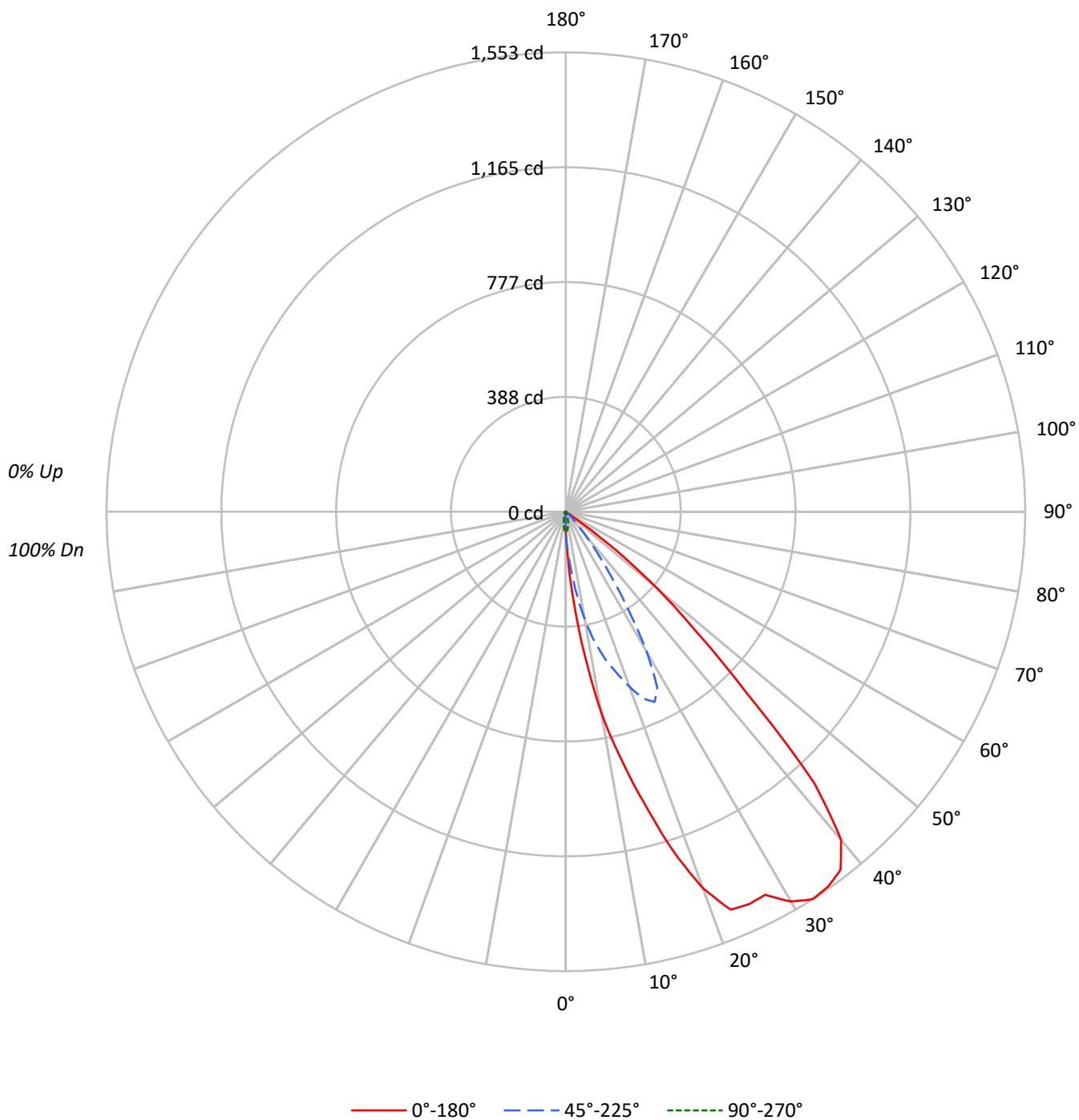
Lumens per Lamp: N/A  
Luminaire Lumens: 573.0 lumens  
Efficiency: N/A  
Efficacy: 28.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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: P1345927

CATALOG NUMBER: P3A13R409030D2WDE010 E3A301GPH

### Luminous Intensity Polar Plot



TEST NUMBER: P1345927

CATALOG NUMBER: P3A13R409030D2WDE010 E3A301GPH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 14867  | 14867  | 14867 | 14867 | 14867 |
| 5°  | 67048  | 42747  | 13317 | 5107  | 3742  |
| 10° | 153771 | 82608  | 9374  | 1826  | 1403  |
| 15° | 230762 | 117208 | 5834  | 999   | 885   |
| 20° | 315984 | 146919 | 3384  | 560   | 677   |
| 25° | 354214 | 171663 | 1766  | 460   | 581   |
| 30° | 385274 | 138553 | 734   | 380   | 608   |
| 35° | 414066 | 70912  | 268   | 509   | 776   |
| 40° | 414233 | 28282  | 143   | 544   | 973   |
| 45° | 264462 | 9458   | 310   | 899   | 1364  |
| 50° | 137275 | 1160   | 512   | 1160  | 1637  |
| 55° | 11851  | 191    | 573   | 1491  | 2026  |
| 60° | 439    | 219    | 658   | 1710  | 2324  |
| 65° | 519    | 259    | 986   | 1764  | 2491  |
| 70° | 321    | 321    | 1218  | 1859  | 2500  |
| 75° | 424    | 424    | 1271  | 2033  | 2881  |
| 80° | 631    | 631    | 1894  | 1894  | 2399  |
| 85° | 0      | 1258   | 3774  | 2516  | 2516  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 264462 cd/sqm

TEST NUMBER: P1345927

CATALOG NUMBER: P3A13R409030D2WDE010 E3A301GPH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.2   | 2.3       |
| 10°-20°   | 77.6   | 13.5      |
| 20°-30°   | 169.8  | 29.6      |
| 30°-40°   | 193.5  | 33.8      |
| 40°-50°   | 102.1  | 17.8      |
| 50°-60°   | 12.1   | 2.1       |
| 60°-70°   | 2.2    | 0.4       |
| 70°-80°   | 1.8    | 0.3       |
| 80°-90°   | 0.8    | 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°    | 260.6  | 45.5      |
| 0°-40°    | 454.1  | 79.2      |
| 0°-60°    | 568.3  | 99.2      |
| 0°-90°    | 573.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 573.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 68   | 68  | 68  | 68   | 68   |      |
| 5°  | 305  | 194 | 60  | 23   | 17   | 41   |
| 15° | 1016 | 516 | 26  | 4    | 4    | 299  |
| 25° | 1464 | 710 | 7   | 2    | 2    | 675  |
| 35° | 1547 | 265 | 1   | 2    | 3    | 959  |
| 45° | 853  | 30  | 1   | 3    | 4    | 688  |
| 55° | 31   | 0   | 2   | 4    | 5    | 96   |
| 65° | 1    | 0   | 2   | 3    | 5    | 1    |
| 75° | 0    | 0   | 2   | 2    | 3    | 1    |
| 85° | 0    | 0   | 2   | 1    | 1    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1345927

CATALOG NUMBER: P3A13R409030D2WDE010 E3A301GPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°   | 45°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 67.8   | 67.8   | 67.8   | 67.8   | 67.8   | 67.8   | 67.8   | 67.8   | 67.8  | 67.8  | 67.8  |
| 2.5°  | 151.1  | 151.1  | 150.6  | 146.3  | 145.8  | 145.3  | 137.5  | 135.6  | 126.4 | 120.1 | 91.5  |
| 5°    | 304.6  | 297.8  | 297.4  | 289.6  | 276.5  | 259.1  | 248.0  | 230.0  | 212.6 | 194.2 | 112.8 |
| 7.5°  | 485.3  | 491.1  | 475.1  | 466.9  | 437.8  | 417.0  | 385.0  | 356.9  | 317.7 | 280.9 | 130.3 |
| 10°   | 690.6  | 680.4  | 664.4  | 648.5  | 617.0  | 579.7  | 532.2  | 482.4  | 425.7 | 371.0 | 140.0 |
| 12.5° | 850.9  | 837.8  | 828.1  | 806.3  | 775.3  | 727.4  | 670.7  | 603.9  | 528.8 | 449.9 | 139.5 |
| 15°   | 1016.5 | 1003.4 | 981.7  | 962.3  | 916.3  | 862.5  | 801.0  | 712.9  | 620.9 | 516.3 | 129.3 |
| 17.5° | 1198.6 | 1181.7 | 1157.5 | 1127.9 | 1083.4 | 1023.8 | 945.8  | 838.3  | 708.0 | 570.5 | 110.9 |
| 20°   | 1354.1 | 1343.9 | 1319.7 | 1284.8 | 1241.2 | 1183.1 | 1093.0 | 973.9  | 815.1 | 629.6 | 88.1  |
| 22.5° | 1455.8 | 1446.6 | 1430.1 | 1399.6 | 1366.7 | 1304.7 | 1222.3 | 1091.6 | 904.7 | 683.3 | 66.8  |
| 25°   | 1464.0 | 1460.1 | 1455.8 | 1445.6 | 1425.7 | 1381.7 | 1301.3 | 1160.4 | 960.3 | 709.5 | 49.4  |
| 27.5° | 1459.6 | 1458.2 | 1457.2 | 1451.9 | 1438.8 | 1395.2 | 1312.9 | 1170.5 | 953.1 | 668.8 | 36.3  |
| 30°   | 1521.6 | 1517.3 | 1514.9 | 1497.4 | 1463.0 | 1395.7 | 1288.2 | 1115.8 | 847.0 | 547.2 | 26.2  |
| 32.5° | 1553.1 | 1552.1 | 1549.7 | 1532.8 | 1484.3 | 1396.7 | 1246.6 | 983.6  | 671.7 | 395.2 | 17.9  |
| 35°   | 1546.8 | 1542.0 | 1533.3 | 1501.8 | 1434.5 | 1324.5 | 1111.9 | 785.5  | 484.8 | 264.9 | 11.6  |
| 37.5° | 1525.5 | 1514.4 | 1497.4 | 1440.8 | 1351.2 | 1201.0 | 901.7  | 578.2  | 329.8 | 171.4 | 6.8   |
| 40°   | 1447.1 | 1432.0 | 1405.4 | 1336.2 | 1218.5 | 989.9  | 666.9  | 390.8  | 216.5 | 98.8  | 1.9   |
| 42.5° | 1244.1 | 1224.8 | 1205.4 | 1127.9 | 993.3  | 738.1  | 438.8  | 241.7  | 123.5 | 54.2  | 0.5   |
| 45°   | 852.8  | 828.6  | 802.0  | 745.8  | 637.8  | 447.0  | 261.0  | 136.1  | 63.9  | 30.5  | 0.5   |
| 47.5° | 592.3  | 581.1  | 534.7  | 463.0  | 355.0  | 236.8  | 135.1  | 66.8   | 33.9  | 14.0  | 0.5   |
| 50°   | 402.4  | 389.9  | 335.6  | 266.4  | 188.9  | 113.3  | 62.0   | 33.4   | 15.0  | 3.4   | 0.5   |
| 52.5° | 211.2  | 195.7  | 161.3  | 123.0  | 76.5   | 47.5   | 27.1   | 14.5   | 4.4   | 0.5   | 0.5   |
| 55°   | 31.0   | 28.6   | 23.2   | 18.9   | 17.0   | 13.1   | 7.7    | 3.4    | 0.5   | 0.5   | 1.0   |
| 57.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.5    | 1.5    | 1.0    | 0.5    | 0.5   | 0.5   | 1.0   |
| 60°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.0   |
| 62.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.0   |
| 65°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.0   |
| 67.5° | 1.0    | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.0   | 1.5   |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.5   |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.0   | 1.5   |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.5   |
| 77.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.0   | 1.5   |
| 80°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.5   | 1.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 0.5   | 1.0   |
| 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: P1345927

CATALOG NUMBER: P3A13R409030D2WDE010 E3A301GPH

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 67.8 | 67.8   | 67.8 | 67.8   | 67.8 |
| 2.5°  | 66.8 | 49.4   | 38.3 | 32.9   | 32.4 |
| 5°    | 60.5 | 35.4   | 23.2 | 17.9   | 17.0 |
| 7.5°  | 51.3 | 24.7   | 13.6 | 9.7    | 9.2  |
| 10°   | 42.1 | 17.0   | 8.2  | 6.8    | 6.3  |
| 12.5° | 33.4 | 11.1   | 5.8  | 5.3    | 4.8  |
| 15°   | 25.7 | 7.3    | 4.4  | 3.9    | 3.9  |
| 17.5° | 19.4 | 4.8    | 3.4  | 3.4    | 3.4  |
| 20°   | 14.5 | 3.4    | 2.4  | 2.9    | 2.9  |
| 22.5° | 10.2 | 2.4    | 1.9  | 2.4    | 2.4  |
| 25°   | 7.3  | 1.9    | 1.9  | 2.4    | 2.4  |
| 27.5° | 4.8  | 1.5    | 1.5  | 1.9    | 2.4  |
| 30°   | 2.9  | 1.0    | 1.5  | 1.9    | 2.4  |
| 32.5° | 1.5  | 1.0    | 1.5  | 2.4    | 2.4  |
| 35°   | 1.0  | 1.5    | 1.9  | 2.4    | 2.9  |
| 37.5° | 0.5  | 1.5    | 1.9  | 2.9    | 2.9  |
| 40°   | 0.5  | 1.5    | 1.9  | 2.9    | 3.4  |
| 42.5° | 1.0  | 1.9    | 2.4  | 3.4    | 3.9  |
| 45°   | 1.0  | 1.9    | 2.9  | 3.9    | 4.4  |
| 47.5° | 1.0  | 1.9    | 3.4  | 4.4    | 4.4  |
| 50°   | 1.5  | 2.4    | 3.4  | 4.4    | 4.8  |
| 52.5° | 1.5  | 2.4    | 3.4  | 4.8    | 5.3  |
| 55°   | 1.5  | 2.4    | 3.9  | 4.8    | 5.3  |
| 57.5° | 1.5  | 2.9    | 3.9  | 4.8    | 5.3  |
| 60°   | 1.5  | 2.4    | 3.9  | 4.8    | 5.3  |
| 62.5° | 1.9  | 2.4    | 3.4  | 4.8    | 4.8  |
| 65°   | 1.9  | 2.4    | 3.4  | 4.8    | 4.8  |
| 67.5° | 1.9  | 2.4    | 3.4  | 4.4    | 4.4  |
| 70°   | 1.9  | 2.4    | 2.9  | 3.9    | 3.9  |
| 72.5° | 1.9  | 2.4    | 2.9  | 3.4    | 3.9  |
| 75°   | 1.5  | 1.9    | 2.4  | 2.9    | 3.4  |
| 77.5° | 1.5  | 1.9    | 1.9  | 2.9    | 2.9  |
| 80°   | 1.5  | 1.5    | 1.5  | 1.9    | 1.9  |
| 82.5° | 1.5  | 1.5    | 1.0  | 1.5    | 1.5  |
| 85°   | 1.5  | 1.0    | 1.0  | 1.0    | 1.0  |
| 87.5° | 1.0  | 1.0    | 0.5  | 0.5    | 0.5  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)