

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: P1342025

Luminaire Tested: P3A09R359827DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1342025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R359827DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

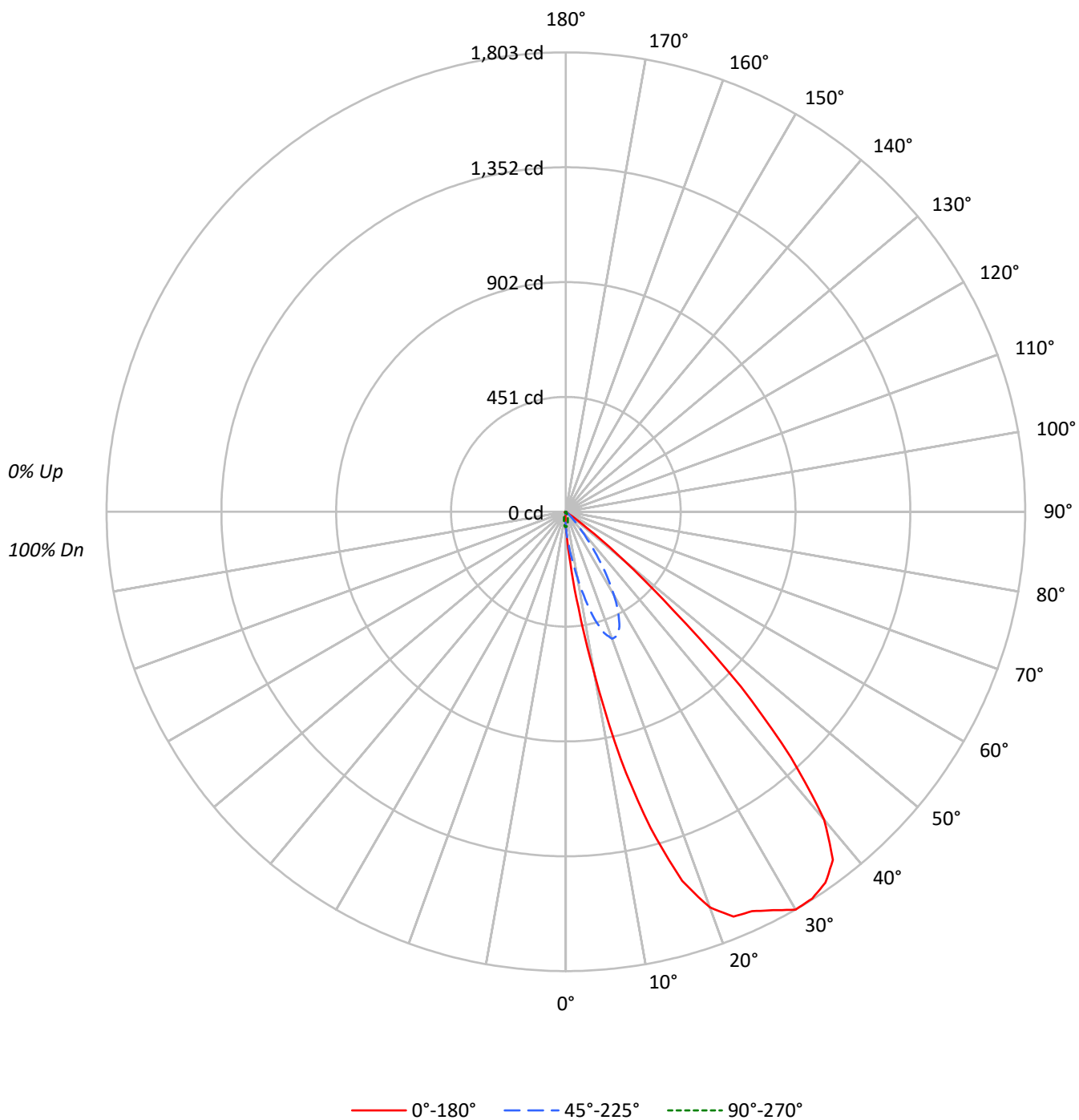
Lumens per Lamp: N/A  
Luminaire Lumens: 566.9 lumens  
Efficiency: N/A  
Efficacy: 51.5 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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: P1342025

CATALOG NUMBER: P3A09R359827DE010 E3CA301MW

### Luminous Intensity Polar Plot



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**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  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 91  | 82  | 76  | 71  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 13069  | 13069  | 13069 | 13069 | 13069 |
| 5°  | 44486  | 28902  | 12217 | 5151  | 3808  |
| 10° | 143128 | 58583  | 9641  | 1937  | 1247  |
| 15° | 291648 | 99365  | 6810  | 704   | 454   |
| 20° | 385640 | 123771 | 4387  | 233   | 233   |
| 25° | 418452 | 120321 | 2468  | 121   | 242   |
| 30° | 456475 | 95888  | 1038  | 127   | 253   |
| 35° | 475636 | 59669  | 268   | 134   | 268   |
| 40° | 451360 | 26077  | 143   | 286   | 429   |
| 45° | 301303 | 10420  | 155   | 465   | 775   |
| 50° | 101046 | 1740   | 341   | 682   | 1058  |
| 55° | 5658   | 191    | 382   | 956   | 1376  |
| 60° | 439    | 219    | 658   | 1096  | 1579  |
| 65° | 519    | 259    | 778   | 1297  | 1868  |
| 70° | 321    | 321    | 962   | 1603  | 1988  |
| 75° | 424    | 424    | 1271  | 1694  | 2118  |
| 80° | 0      | 631    | 1894  | 1894  | 1894  |
| 85° | 0      | 1258   | 3774  | 1258  | 2516  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 301303 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.3   | 1.8       |
| 10°-20°   | 81.4   | 14.4      |
| 20°-30°   | 171.9  | 30.3      |
| 30°-40°   | 195.0  | 34.4      |
| 40°-50°   | 96.0   | 16.9      |
| 50°-60°   | 8.3    | 1.5       |
| 60°-70°   | 1.7    | 0.3       |
| 70°-80°   | 1.6    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 263.6  | 46.5      |
| 0°-40°    | 458.7  | 80.9      |
| 0°-60°    | 562.9  | 99.3      |
| 0°-90°    | 566.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 566.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 60   | 60  | 60  | 60   | 60   |      |
| 5°  | 202  | 131 | 56  | 23   | 17   | 33   |
| 15° | 1285 | 438 | 30  | 3    | 2    | 365  |
| 25° | 1730 | 497 | 10  | 0    | 1    | 805  |
| 35° | 1777 | 223 | 1   | 0    | 1    | 1095 |
| 45° | 972  | 34  | 0   | 2    | 2    | 718  |
| 55° | 15   | 0   | 1   | 2    | 4    | 58   |
| 65° | 1    | 0   | 2   | 2    | 4    | 1    |
| 75° | 0    | 0   | 2   | 2    | 2    | 0    |
| 85° | 0    | 0   | 2   | 0    | 1    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°   | 40°   | 45°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 59.6   | 59.6   | 59.6   | 59.6   | 59.6   | 59.6   | 59.6   | 59.6  | 59.6  | 59.6  | 59.6  |
| 2.5°  | 103.3  | 105.9  | 104.8  | 104.3  | 103.8  | 101.8  | 97.2   | 96.7  | 92.1  | 89.1  | 73.8  |
| 5°    | 202.1  | 198.0  | 199.0  | 193.4  | 186.3  | 176.1  | 169.5  | 155.2 | 143.5 | 131.3 | 86.0  |
| 7.5°  | 380.7  | 375.1  | 364.4  | 348.1  | 331.3  | 309.5  | 276.4  | 249.9 | 219.4 | 190.4 | 95.7  |
| 10°   | 642.8  | 639.8  | 626.0  | 584.3  | 547.7  | 489.1  | 434.2  | 376.1 | 319.1 | 263.1 | 102.3 |
| 12.5° | 993.0  | 972.1  | 947.2  | 891.7  | 819.4  | 746.2  | 637.7  | 537.5 | 446.4 | 352.7 | 102.8 |
| 15°   | 1284.7 | 1271.4 | 1236.3 | 1164.0 | 1077.0 | 971.1  | 842.4  | 707.5 | 570.1 | 437.7 | 97.7  |
| 17.5° | 1519.3 | 1498.9 | 1453.6 | 1382.9 | 1282.6 | 1145.2 | 994.5  | 830.1 | 662.7 | 498.3 | 89.1  |
| 20°   | 1652.6 | 1642.0 | 1607.3 | 1536.6 | 1427.2 | 1277.0 | 1105.5 | 914.1 | 720.7 | 530.4 | 77.9  |
| 22.5° | 1719.8 | 1712.2 | 1686.7 | 1630.2 | 1527.9 | 1376.8 | 1180.3 | 957.9 | 737.5 | 526.8 | 66.2  |
| 25°   | 1729.5 | 1727.5 | 1705.6 | 1662.8 | 1577.3 | 1427.7 | 1212.9 | 966.0 | 723.8 | 497.3 | 55.0  |
| 27.5° | 1763.1 | 1756.0 | 1730.0 | 1687.3 | 1601.2 | 1436.3 | 1201.7 | 938.0 | 679.5 | 445.4 | 45.8  |
| 30°   | 1802.8 | 1797.7 | 1771.7 | 1727.5 | 1625.7 | 1428.2 | 1162.0 | 875.9 | 608.7 | 378.7 | 34.1  |
| 32.5° | 1799.7 | 1797.7 | 1775.8 | 1729.0 | 1608.4 | 1380.3 | 1091.2 | 782.8 | 512.5 | 298.8 | 21.4  |
| 35°   | 1776.8 | 1769.7 | 1742.2 | 1669.9 | 1509.6 | 1257.2 | 956.9  | 656.6 | 405.7 | 222.9 | 13.7  |
| 37.5° | 1721.9 | 1706.6 | 1660.3 | 1537.6 | 1333.0 | 1067.3 | 779.2  | 506.9 | 287.1 | 149.1 | 8.7   |
| 40°   | 1576.8 | 1557.5 | 1464.3 | 1316.2 | 1101.9 | 840.8  | 579.7  | 348.6 | 189.3 | 91.1  | 3.6   |
| 42.5° | 1308.1 | 1268.9 | 1175.7 | 1023.5 | 822.5  | 594.5  | 380.7  | 226.0 | 111.5 | 55.0  | 1.0   |
| 45°   | 971.6  | 941.6  | 843.9  | 705.9  | 539.0  | 381.2  | 230.6  | 122.2 | 61.6  | 33.6  | 0.5   |
| 47.5° | 566.0  | 547.7  | 497.3  | 406.7  | 297.8  | 200.0  | 118.1  | 65.7  | 36.1  | 16.3  | 0.5   |
| 50°   | 296.2  | 273.3  | 235.1  | 178.1  | 131.3  | 92.1   | 57.5   | 35.1  | 17.8  | 5.1   | 0.5   |
| 52.5° | 103.8  | 102.3  | 93.1   | 70.2   | 57.0   | 41.2   | 28.0   | 15.3  | 5.1   | 1.0   | 0.5   |
| 55°   | 14.8   | 14.8   | 13.7   | 15.3   | 16.3   | 14.8   | 9.7    | 4.1   | 1.0   | 0.5   | 0.5   |
| 57.5° | 1.0    | 1.0    | 1.0    | 1.5    | 2.0    | 2.0    | 1.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 60°   | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 62.5° | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 65°   | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 67.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 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   | 0.5   | 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° | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 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   |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 59.6 | 59.6   | 59.6 | 59.6   | 59.6 |
| 2.5°  | 59.0 | 47.3   | 37.7 | 33.1   | 31.6 |
| 5°    | 55.5 | 35.6   | 23.4 | 18.3   | 17.3 |
| 7.5°  | 49.4 | 25.4   | 14.3 | 10.2   | 9.7  |
| 10°   | 43.3 | 18.3   | 8.7  | 6.1    | 5.6  |
| 12.5° | 36.1 | 12.7   | 5.6  | 3.6    | 3.1  |
| 15°   | 30.0 | 8.7    | 3.1  | 2.5    | 2.0  |
| 17.5° | 23.9 | 5.6    | 2.0  | 1.5    | 2.0  |
| 20°   | 18.8 | 3.6    | 1.0  | 1.0    | 1.0  |
| 22.5° | 14.3 | 2.0    | 1.0  | 1.0    | 1.0  |
| 25°   | 10.2 | 1.0    | 0.5  | 0.5    | 1.0  |
| 27.5° | 7.1  | 0.5    | 0.5  | 0.5    | 1.0  |
| 30°   | 4.1  | 0.5    | 0.5  | 0.5    | 1.0  |
| 32.5° | 2.0  | 0.5    | 0.5  | 1.0    | 1.0  |
| 35°   | 1.0  | 0.5    | 0.5  | 1.0    | 1.0  |
| 37.5° | 0.5  | 0.5    | 0.5  | 1.0    | 1.5  |
| 40°   | 0.5  | 0.5    | 1.0  | 1.5    | 1.5  |
| 42.5° | 0.5  | 0.5    | 1.0  | 1.5    | 2.0  |
| 45°   | 0.5  | 1.0    | 1.5  | 2.0    | 2.5  |
| 47.5° | 1.0  | 1.0    | 2.0  | 2.5    | 3.1  |
| 50°   | 1.0  | 1.5    | 2.0  | 3.1    | 3.1  |
| 52.5° | 1.0  | 1.5    | 2.5  | 3.1    | 3.6  |
| 55°   | 1.0  | 2.0    | 2.5  | 3.6    | 3.6  |
| 57.5° | 1.5  | 2.0    | 2.5  | 3.6    | 3.6  |
| 60°   | 1.5  | 2.0    | 2.5  | 3.6    | 3.6  |
| 62.5° | 1.5  | 2.0    | 2.5  | 3.6    | 3.6  |
| 65°   | 1.5  | 2.0    | 2.5  | 3.6    | 3.6  |
| 67.5° | 1.5  | 2.0    | 2.5  | 3.1    | 3.6  |
| 70°   | 1.5  | 2.0    | 2.5  | 3.1    | 3.1  |
| 72.5° | 2.0  | 2.0    | 2.5  | 3.1    | 3.1  |
| 75°   | 1.5  | 2.0    | 2.0  | 2.5    | 2.5  |
| 77.5° | 1.5  | 1.5    | 1.5  | 2.0    | 2.0  |
| 80°   | 1.5  | 1.5    | 1.5  | 1.5    | 1.5  |
| 82.5° | 1.5  | 1.0    | 1.0  | 1.5    | 1.5  |
| 85°   | 1.5  | 1.0    | 0.5  | 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)