

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: P1345907

Luminaire Tested: P3A13R409024DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345907  
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: P3A13R409024DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

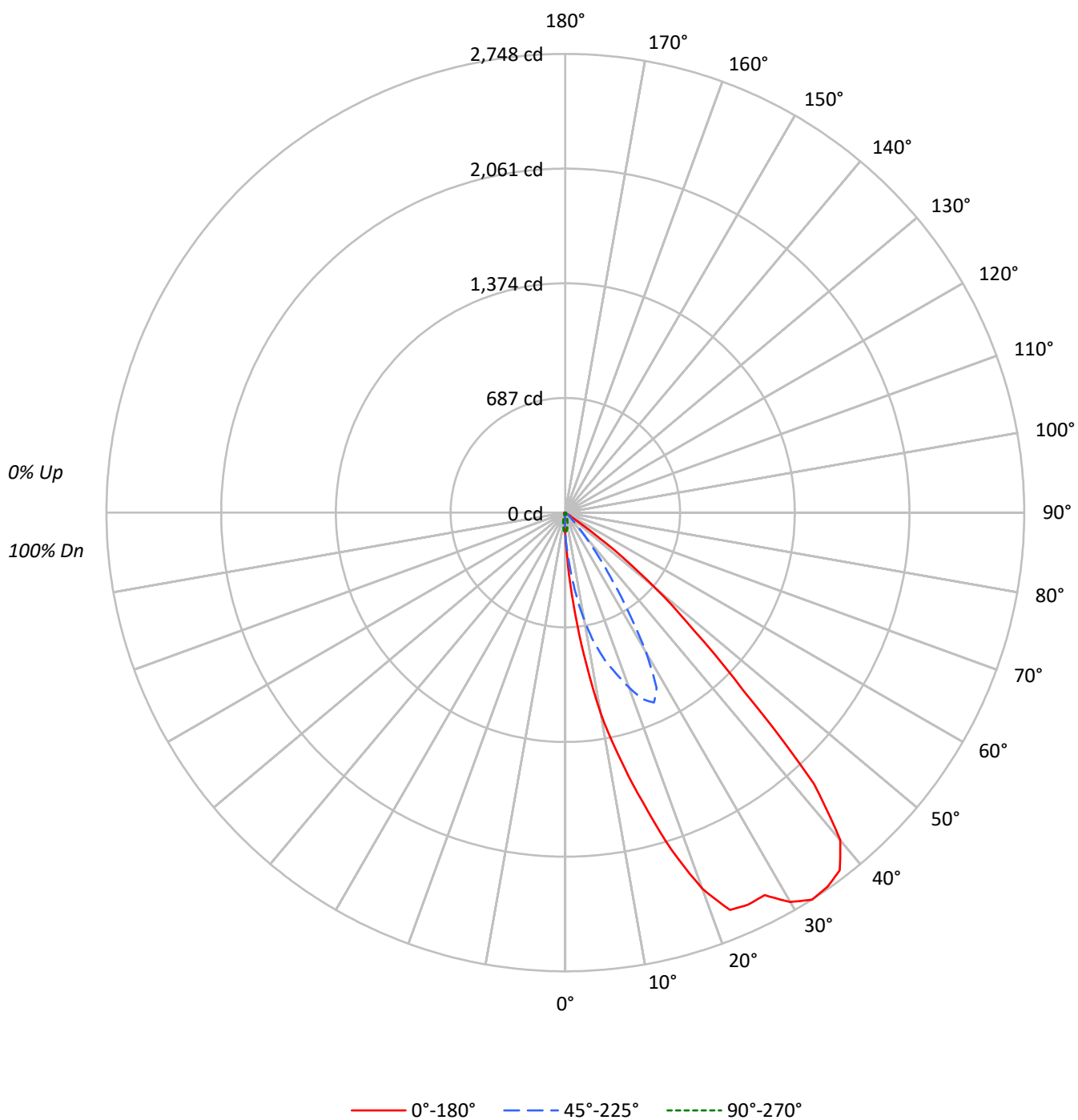
Lumens per Lamp: N/A  
Luminaire Lumens: 1014.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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

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CATALOG NUMBER: P3A13R409024DE010 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 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 74  |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 68  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 62  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 56  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 51  | 51  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 46  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 42  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 38  | 38  | 37  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 26314  | 26314  | 26314 | 26314 | 26314 |
| 5°  | 118666 | 75655  | 23575 | 9047  | 6604  |
| 10° | 272117 | 146179 | 16611 | 3251  | 2472  |
| 15° | 408379 | 207402 | 10307 | 1748  | 1566  |
| 20° | 559162 | 259979 | 5997  | 1003  | 1190  |
| 25° | 626843 | 303768 | 3121  | 823   | 1040  |
| 30° | 681801 | 245202 | 1291  | 658   | 1089  |
| 35° | 732754 | 125494 | 455   | 910   | 1365  |
| 40° | 733031 | 50037  | 258   | 973   | 1718  |
| 45° | 468018 | 16746  | 527   | 1582  | 2388  |
| 50° | 242960 | 2047   | 887   | 2047  | 2934  |
| 55° | 20950  | 344    | 994   | 2638  | 3594  |
| 60° | 746    | 395    | 1140  | 3026  | 4122  |
| 65° | 882    | 467    | 1764  | 3113  | 4462  |
| 70° | 577    | 577    | 2180  | 3270  | 4424  |
| 75° | 763    | 763    | 2203  | 3643  | 5083  |
| 80° | 1137   | 1137   | 3283  | 3283  | 4293  |
| 85° | 0      | 2264   | 6542  | 4277  | 4277  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 468018 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.4   | 2.3       |
| 10°-20°   | 137.2  | 13.5      |
| 20°-30°   | 300.6  | 29.6      |
| 30°-40°   | 342.4  | 33.8      |
| 40°-50°   | 180.7  | 17.8      |
| 50°-60°   | 21.3   | 2.1       |
| 60°-70°   | 3.8    | 0.4       |
| 70°-80°   | 3.2    | 0.3       |
| 80°-90°   | 1.4    | 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°    | 461.2  | 45.5      |
| 0°-40°    | 803.6  | 79.2      |
| 0°-60°    | 1005.6 | 99.2      |
| 0°-90°    | 1014.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1014.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 120  | 120  | 120 | 120  | 120  |      |
| 5°  | 539  | 344  | 107 | 41   | 30   | 73   |
| 15° | 1799 | 914  | 45  | 8    | 7    | 530  |
| 25° | 2591 | 1256 | 13  | 3    | 4    | 1194 |
| 35° | 2737 | 469  | 2   | 3    | 5    | 1697 |
| 45° | 1509 | 54   | 2   | 5    | 8    | 1217 |
| 55° | 55   | 1    | 3   | 7    | 9    | 170  |
| 65° | 2    | 1    | 3   | 6    | 9    | 2    |
| 75° | 1    | 1    | 3   | 4    | 6    | 1    |
| 85° | 0    | 1    | 3   | 2    | 2    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1345907

CATALOG NUMBER: P3A13R409024DE010 E3CA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 120.0  | 120.0  | 120.0  | 120.0  | 120.0  | 120.0  | 120.0  | 120.0  | 120.0  | 120.0  | 120.0 |
| 2.5°  | 267.4  | 267.4  | 266.5  | 258.8  | 258.0  | 257.1  | 243.4  | 240.0  | 223.7  | 212.5  | 162.0 |
| 5°    | 539.1  | 527.1  | 526.2  | 512.5  | 489.4  | 458.5  | 438.8  | 407.1  | 376.2  | 343.7  | 199.7 |
| 7.5°  | 858.7  | 869.0  | 840.7  | 826.2  | 774.7  | 737.9  | 681.3  | 631.6  | 562.2  | 497.1  | 230.5 |
| 10°   | 1222.1 | 1204.1 | 1175.8 | 1147.5 | 1091.8 | 1025.8 | 941.9  | 853.6  | 753.3  | 656.5  | 247.7 |
| 12.5° | 1505.8 | 1482.6 | 1465.5 | 1426.9 | 1372.1 | 1287.2 | 1187.0 | 1068.7 | 935.9  | 796.2  | 246.8 |
| 15°   | 1798.9 | 1775.7 | 1737.2 | 1702.9 | 1621.5 | 1526.3 | 1417.5 | 1261.5 | 1098.7 | 913.6  | 228.8 |
| 17.5° | 2121.1 | 2091.1 | 2048.3 | 1996.0 | 1917.1 | 1811.7 | 1673.7 | 1483.5 | 1253.0 | 1009.6 | 196.3 |
| 20°   | 2396.2 | 2378.2 | 2335.4 | 2273.7 | 2196.5 | 2093.7 | 1934.3 | 1723.5 | 1442.4 | 1114.1 | 156.0 |
| 22.5° | 2576.2 | 2559.9 | 2530.8 | 2476.8 | 2418.5 | 2308.8 | 2163.1 | 1931.7 | 1600.9 | 1209.2 | 118.3 |
| 25°   | 2590.8 | 2583.9 | 2576.2 | 2558.2 | 2523.1 | 2445.1 | 2302.8 | 2053.4 | 1699.5 | 1255.5 | 87.4  |
| 27.5° | 2583.0 | 2580.5 | 2578.8 | 2569.3 | 2546.2 | 2469.1 | 2323.4 | 2071.4 | 1686.6 | 1183.5 | 64.3  |
| 30°   | 2692.7 | 2685.0 | 2680.7 | 2649.9 | 2589.0 | 2469.9 | 2279.7 | 1974.6 | 1498.9 | 968.4  | 46.3  |
| 32.5° | 2748.4 | 2746.7 | 2742.4 | 2712.5 | 2626.8 | 2471.6 | 2206.0 | 1740.6 | 1188.7 | 699.3  | 31.7  |
| 35°   | 2737.3 | 2728.7 | 2713.3 | 2657.6 | 2538.5 | 2343.9 | 1967.7 | 1390.1 | 857.9  | 468.8  | 20.6  |
| 37.5° | 2699.6 | 2679.9 | 2649.9 | 2549.6 | 2391.1 | 2125.4 | 1595.8 | 1023.3 | 583.6  | 303.4  | 12.0  |
| 40°   | 2560.8 | 2534.2 | 2487.1 | 2364.5 | 2156.2 | 1751.7 | 1180.1 | 691.6  | 383.1  | 174.8  | 3.4   |
| 42.5° | 2201.7 | 2167.4 | 2133.1 | 1996.0 | 1757.7 | 1306.1 | 776.5  | 427.7  | 218.5  | 96.0   | 0.9   |
| 45°   | 1509.2 | 1466.4 | 1419.2 | 1319.8 | 1128.7 | 791.0  | 461.9  | 240.8  | 113.1  | 54.0   | 0.9   |
| 47.5° | 1048.1 | 1028.4 | 946.1  | 819.3  | 628.2  | 419.1  | 239.1  | 118.3  | 60.0   | 24.9   | 0.9   |
| 50°   | 712.2  | 689.9  | 593.9  | 471.4  | 334.2  | 200.5  | 109.7  | 59.1   | 26.6   | 6.0    | 0.9   |
| 52.5° | 373.7  | 346.2  | 285.4  | 217.7  | 135.4  | 84.0   | 48.0   | 25.7   | 7.7    | 0.9    | 0.9   |
| 55°   | 54.8   | 50.6   | 41.1   | 33.4   | 30.0   | 23.1   | 13.7   | 6.0    | 0.9    | 0.9    | 1.7   |
| 57.5° | 1.7    | 1.7    | 1.7    | 1.7    | 2.6    | 2.6    | 1.7    | 0.9    | 0.9    | 0.9    | 1.7   |
| 60°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.7   |
| 62.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.7   |
| 65°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.7   |
| 67.5° | 1.7    | 1.7    | 1.7    | 1.7    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.7    | 2.6   |
| 70°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 2.6   |
| 72.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.7    | 2.6   |
| 75°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 2.6   |
| 77.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.7    | 2.6   |
| 80°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 1.7   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 2.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 1.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 1.7   |
| 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°    | 120.0 | 120.0  | 120.0 | 120.0  | 120.0 |
| 2.5°  | 118.3 | 87.4   | 67.7  | 58.3   | 57.4  |
| 5°    | 107.1 | 62.6   | 41.1  | 31.7   | 30.0  |
| 7.5°  | 90.8  | 43.7   | 24.0  | 17.1   | 16.3  |
| 10°   | 74.6  | 30.0   | 14.6  | 12.0   | 11.1  |
| 12.5° | 59.1  | 19.7   | 10.3  | 9.4    | 8.6   |
| 15°   | 45.4  | 12.9   | 7.7   | 6.9    | 6.9   |
| 17.5° | 34.3  | 8.6    | 6.0   | 6.0    | 6.0   |
| 20°   | 25.7  | 6.0    | 4.3   | 5.1    | 5.1   |
| 22.5° | 18.0  | 4.3    | 3.4   | 4.3    | 4.3   |
| 25°   | 12.9  | 3.4    | 3.4   | 4.3    | 4.3   |
| 27.5° | 8.6   | 2.6    | 2.6   | 3.4    | 4.3   |
| 30°   | 5.1   | 1.7    | 2.6   | 3.4    | 4.3   |
| 32.5° | 2.6   | 1.7    | 2.6   | 4.3    | 4.3   |
| 35°   | 1.7   | 2.6    | 3.4   | 4.3    | 5.1   |
| 37.5° | 0.9   | 2.6    | 3.4   | 5.1    | 5.1   |
| 40°   | 0.9   | 2.6    | 3.4   | 5.1    | 6.0   |
| 42.5° | 1.7   | 3.4    | 4.3   | 6.0    | 6.9   |
| 45°   | 1.7   | 3.4    | 5.1   | 6.9    | 7.7   |
| 47.5° | 1.7   | 3.4    | 6.0   | 7.7    | 7.7   |
| 50°   | 2.6   | 4.3    | 6.0   | 7.7    | 8.6   |
| 52.5° | 2.6   | 4.3    | 6.0   | 8.6    | 9.4   |
| 55°   | 2.6   | 4.3    | 6.9   | 8.6    | 9.4   |
| 57.5° | 2.6   | 5.1    | 6.9   | 8.6    | 9.4   |
| 60°   | 2.6   | 4.3    | 6.9   | 8.6    | 9.4   |
| 62.5° | 3.4   | 4.3    | 6.0   | 8.6    | 8.6   |
| 65°   | 3.4   | 4.3    | 6.0   | 8.6    | 8.6   |
| 67.5° | 3.4   | 4.3    | 6.0   | 7.7    | 7.7   |
| 70°   | 3.4   | 4.3    | 5.1   | 6.9    | 6.9   |
| 72.5° | 3.4   | 4.3    | 5.1   | 6.0    | 6.9   |
| 75°   | 2.6   | 3.4    | 4.3   | 5.1    | 6.0   |
| 77.5° | 2.6   | 3.4    | 3.4   | 5.1    | 5.1   |
| 80°   | 2.6   | 2.6    | 2.6   | 3.4    | 3.4   |
| 82.5° | 2.6   | 2.6    | 1.7   | 2.6    | 2.6   |
| 85°   | 2.6   | 1.7    | 1.7   | 1.7    | 1.7   |
| 87.5° | 1.7   | 1.7    | 0.9   | 0.9    | 0.9   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)