

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: P1344954

Luminaire Tested: P3A13R309040DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R309040DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

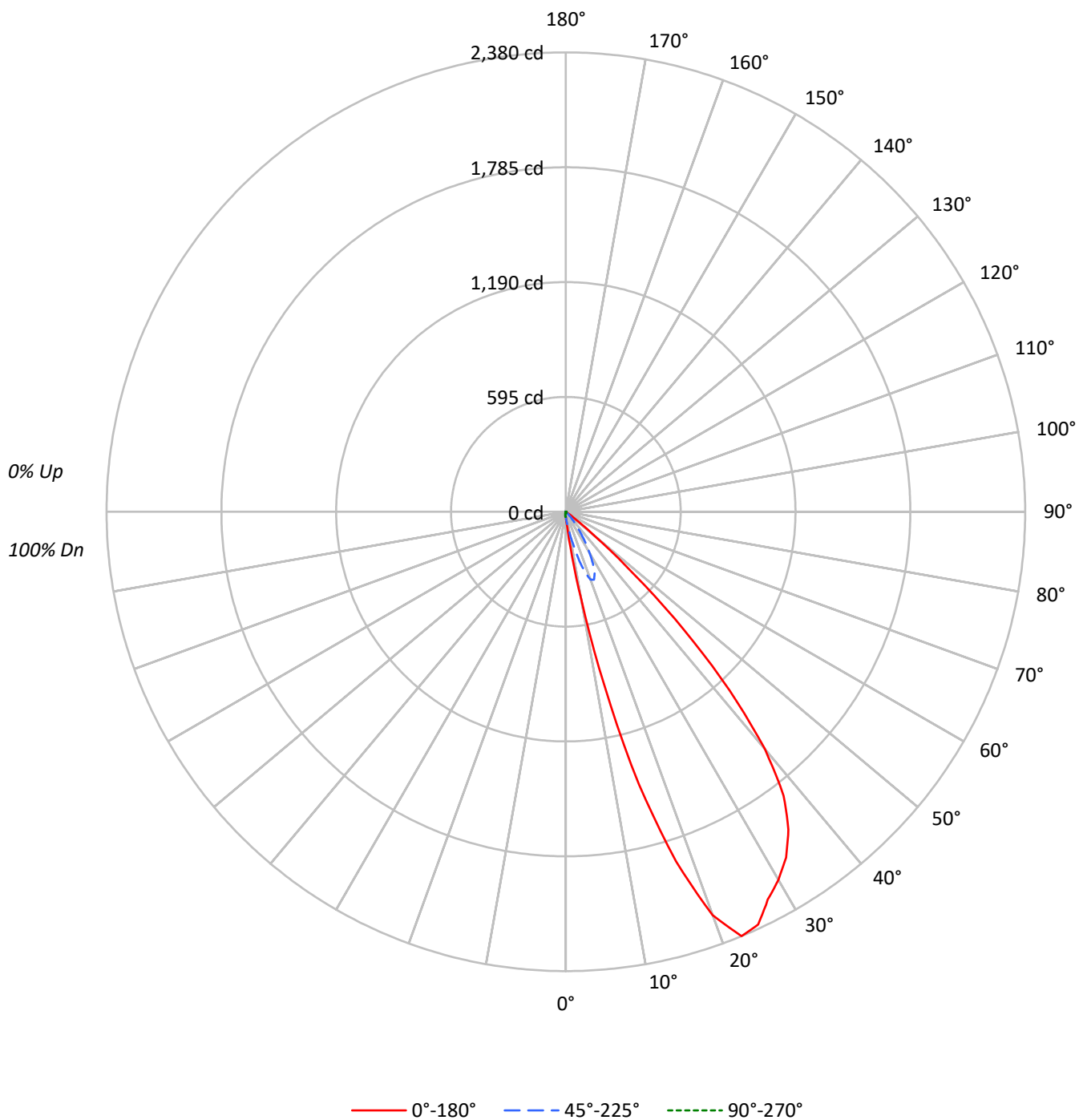
Lumens per Lamp: N/A  
Luminaire Lumens: 560.9 lumens  
Efficiency: N/A  
Efficacy: 38.4 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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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### 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5855   | 5855  | 5855 | 5855 | 5855 |
| 5°  | 17609  | 11732 | 5525 | 2487 | 2025 |
| 10° | 101935 | 24894 | 4342 | 1136 | 802  |
| 15° | 331557 | 56436 | 3019 | 227  | 114  |
| 20° | 518815 | 87321 | 1913 | 0    | 0    |
| 25° | 570783 | 85336 | 992  | 0    | 0    |
| 30° | 557478 | 61528 | 380  | 0    | 0    |
| 35° | 538061 | 34987 | 134  | 0    | 0    |
| 40° | 458860 | 14828 | 0    | 0    | 0    |
| 45° | 269299 | 5551  | 155  | 0    | 155  |
| 50° | 65397  | 1058  | 171  | 171  | 512  |
| 55° | 5696   | 0     | 382  | 573  | 803  |
| 60° | 219    | 0     | 439  | 658  | 1140 |
| 65° | 259    | 259   | 778  | 778  | 1349 |
| 70° | 321    | 321   | 962  | 962  | 1346 |
| 75° | 0      | 424   | 1271 | 1271 | 1271 |
| 80° | 0      | 631   | 1894 | 1263 | 1263 |
| 85° | 0      | 1258  | 3774 | 1258 | 1258 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 269299 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.9    | 0.9       |
| 10°-20°   | 77.1   | 13.7      |
| 20°-30°   | 195.9  | 34.9      |
| 30°-40°   | 195.3  | 34.8      |
| 40°-50°   | 79.1   | 14.1      |
| 50°-60°   | 5.5    | 1.0       |
| 60°-70°   | 1.2    | 0.2       |
| 70°-80°   | 1.2    | 0.2       |
| 80°-90°   | 0.7    | 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°    | 277.9  | 49.5      |
| 0°-40°    | 473.2  | 84.4      |
| 0°-60°    | 557.8  | 99.4      |
| 0°-90°    | 560.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 560.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 27   | 27  | 27  | 27   | 27   |      |
| 5°  | 80   | 53  | 25  | 11   | 9    | 19   |
| 15° | 1460 | 249 | 13  | 1    | 0    | 425  |
| 25° | 2359 | 353 | 4   | 0    | 0    | 1065 |
| 35° | 2010 | 131 | 0   | 0    | 0    | 1232 |
| 45° | 868  | 18  | 0   | 0    | 0    | 663  |
| 55° | 15   | 0   | 1   | 2    | 2    | 39   |
| 65° | 0    | 0   | 2   | 2    | 3    | 0    |
| 75° | 0    | 0   | 2   | 2    | 2    | 0    |
| 85° | 0    | 0   | 2   | 0    | 0    | 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°    | 26.7   | 26.7   | 26.7   | 26.7   | 26.7   | 26.7   | 26.7   | 26.7  | 26.7  | 26.7  | 26.7  |
| 2.5°  | 44.1   | 44.6   | 44.6   | 43.6   | 43.1   | 43.1   | 41.5   | 41.0  | 39.5  | 37.9  | 32.8  |
| 5°    | 80.0   | 78.4   | 76.4   | 76.4   | 71.8   | 69.2   | 65.6   | 61.5  | 58.4  | 53.3  | 37.9  |
| 7.5°  | 181.5  | 169.2  | 165.6  | 161.0  | 143.5  | 129.7  | 113.8  | 100.0 | 87.1  | 76.4  | 42.0  |
| 10°   | 457.8  | 433.7  | 413.7  | 373.2  | 322.4  | 273.7  | 228.6  | 176.3 | 140.5 | 111.8 | 45.1  |
| 12.5° | 922.2  | 889.9  | 851.5  | 777.7  | 682.8  | 561.3  | 453.7  | 338.8 | 237.9 | 164.6 | 46.1  |
| 15°   | 1460.5 | 1405.6 | 1345.6 | 1251.8 | 1096.5 | 922.2  | 727.9  | 544.9 | 381.9 | 248.6 | 45.1  |
| 17.5° | 1899.3 | 1877.7 | 1789.1 | 1660.9 | 1470.7 | 1246.2 | 1006.8 | 756.6 | 515.2 | 325.5 | 42.0  |
| 20°   | 2223.3 | 2208.4 | 2101.3 | 1964.9 | 1750.6 | 1493.3 | 1189.3 | 888.9 | 608.0 | 374.2 | 37.4  |
| 22.5° | 2379.6 | 2377.0 | 2299.6 | 2160.2 | 1933.1 | 1641.4 | 1306.7 | 965.3 | 636.7 | 380.9 | 31.3  |
| 25°   | 2359.1 | 2368.3 | 2324.2 | 2220.7 | 2002.8 | 1702.4 | 1341.5 | 965.3 | 615.7 | 352.7 | 26.1  |
| 27.5° | 2265.8 | 2272.0 | 2244.3 | 2164.8 | 1961.8 | 1658.3 | 1292.8 | 903.2 | 554.7 | 303.0 | 21.5  |
| 30°   | 2201.7 | 2204.3 | 2169.9 | 2084.8 | 1869.5 | 1557.9 | 1178.0 | 788.4 | 462.4 | 243.0 | 15.9  |
| 32.5° | 2123.8 | 2123.3 | 2083.3 | 1985.9 | 1748.6 | 1416.9 | 1032.4 | 651.5 | 355.2 | 184.5 | 9.2   |
| 35°   | 2010.0 | 1997.2 | 1942.9 | 1830.6 | 1568.1 | 1227.2 | 846.3  | 496.2 | 255.8 | 130.7 | 5.6   |
| 37.5° | 1853.7 | 1820.3 | 1743.4 | 1593.2 | 1314.9 | 962.2  | 627.5  | 348.6 | 174.8 | 86.6  | 3.6   |
| 40°   | 1603.0 | 1567.6 | 1463.0 | 1280.5 | 994.5  | 692.6  | 422.9  | 227.1 | 110.2 | 51.8  | 2.1   |
| 42.5° | 1257.0 | 1232.9 | 1091.9 | 909.9  | 656.7  | 441.9  | 254.3  | 134.3 | 62.0  | 29.7  | 0.5   |
| 45°   | 868.4  | 837.1  | 726.4  | 572.1  | 394.2  | 245.0  | 142.5  | 70.2  | 35.4  | 17.9  | 0.0   |
| 47.5° | 479.3  | 440.9  | 376.8  | 296.3  | 198.4  | 128.7  | 71.8   | 37.9  | 20.0  | 8.7   | 0.0   |
| 50°   | 191.7  | 190.2  | 151.2  | 107.7  | 75.9   | 58.4   | 35.9   | 20.5  | 10.3  | 3.1   | 0.5   |
| 52.5° | 67.2   | 67.2   | 57.9   | 47.2   | 36.9   | 26.7   | 17.9   | 9.7   | 3.6   | 1.0   | 0.5   |
| 55°   | 14.9   | 16.4   | 15.4   | 14.4   | 13.8   | 11.8   | 7.7    | 3.6   | 1.0   | 0.0   | 0.5   |
| 57.5° | 1.5    | 1.5    | 1.5    | 2.1    | 2.6    | 2.6    | 2.1    | 1.0   | 0.0   | 0.0   | 0.5   |
| 60°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.0   | 0.0   | 0.0   | 1.0   |
| 62.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5   | 1.0   |
| 65°   | 0.5    | 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°   | 0.0    | 0.0    | 0.5    | 0.5    | 0.0    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.5   | 1.0   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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   | 1.0   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 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°    | 26.7 | 26.7   | 26.7 | 26.7   | 26.7 |
| 2.5°  | 26.7 | 21.0   | 17.4 | 15.4   | 14.9 |
| 5°    | 25.1 | 15.9   | 11.3 | 9.7    | 9.2  |
| 7.5°  | 22.6 | 11.8   | 7.7  | 6.2    | 5.6  |
| 10°   | 19.5 | 8.7    | 5.1  | 3.6    | 3.6  |
| 12.5° | 16.4 | 6.7    | 3.1  | 1.5    | 1.0  |
| 15°   | 13.3 | 4.1    | 1.0  | 0.5    | 0.5  |
| 17.5° | 10.3 | 2.6    | 0.0  | 0.0    | 0.0  |
| 20°   | 8.2  | 1.0    | 0.0  | 0.0    | 0.0  |
| 22.5° | 6.2  | 0.5    | 0.0  | 0.0    | 0.0  |
| 25°   | 4.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 2.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.5  | 0.0    | 0.0  | 0.5    | 0.5  |
| 47.5° | 0.5  | 0.5    | 0.5  | 1.0    | 1.0  |
| 50°   | 0.5  | 0.5    | 0.5  | 1.0    | 1.5  |
| 52.5° | 1.0  | 0.5    | 1.0  | 1.5    | 1.5  |
| 55°   | 1.0  | 1.0    | 1.5  | 2.1    | 2.1  |
| 57.5° | 1.0  | 1.0    | 1.5  | 2.1    | 2.1  |
| 60°   | 1.0  | 1.0    | 1.5  | 2.1    | 2.6  |
| 62.5° | 1.5  | 1.5    | 1.5  | 2.1    | 2.1  |
| 65°   | 1.5  | 1.5    | 1.5  | 2.1    | 2.6  |
| 67.5° | 1.5  | 1.5    | 1.5  | 2.1    | 2.6  |
| 70°   | 1.5  | 1.5    | 1.5  | 2.1    | 2.1  |
| 72.5° | 2.1  | 1.5    | 1.5  | 2.1    | 2.1  |
| 75°   | 1.5  | 1.5    | 1.5  | 1.5    | 1.5  |
| 77.5° | 1.5  | 1.5    | 1.0  | 1.5    | 1.5  |
| 80°   | 1.5  | 1.0    | 1.0  | 1.0    | 1.0  |
| 82.5° | 1.5  | 1.0    | 1.0  | 1.0    | 1.0  |
| 85°   | 1.5  | 1.0    | 0.5  | 0.5    | 0.5  |
| 87.5° | 1.5  | 1.0    | 0.5  | 0.5    | 0.5  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)