

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: P1345232

Luminaire Tested: P3A13R30W2N902750DE010 E3A301WMH\_2700K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345232  
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: P3A13R30W2N902750DE010 E3A301WMH\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI ,  
E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

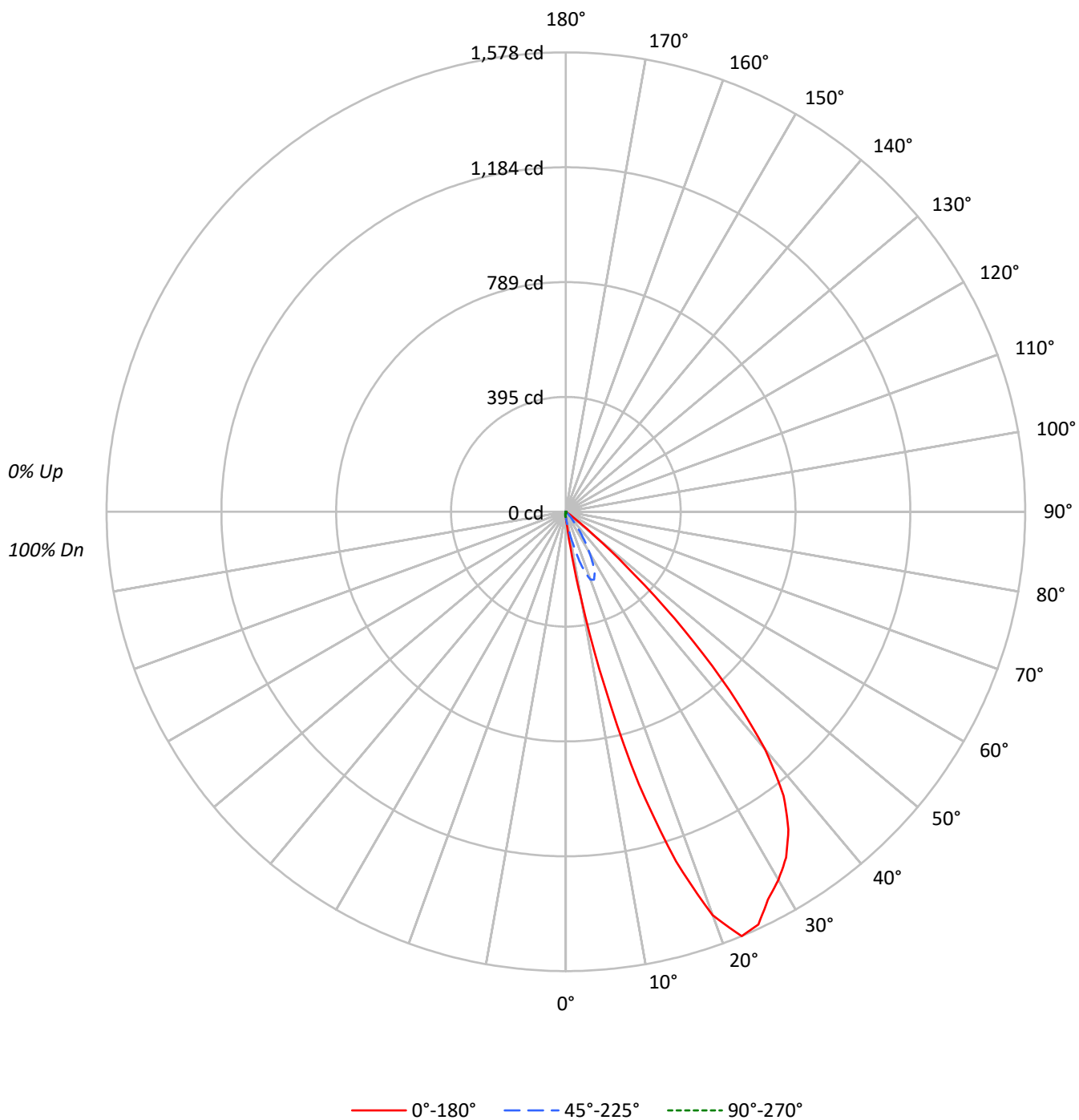
Lumens per Lamp: N/A  
Luminaire Lumens: 372.0 lumens  
Efficiency: N/A  
Efficacy: 30.2 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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



TEST NUMBER: P1345232

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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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 95  | 92  | 103 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |    |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 67  | 55  | 48  | 43  | 65  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 52  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 3881   | 3881  | 3881 | 3881 | 3881 |
| 5°  | 11666  | 7792  | 3676 | 1651 | 1343 |
| 10° | 67601  | 16499 | 2872 | 757  | 534  |
| 15° | 219842 | 37435 | 1998 | 159  | 68   |
| 20° | 344010 | 57895 | 1260 | 0    | 0    |
| 25° | 378482 | 56592 | 653  | 0    | 0    |
| 30° | 369677 | 40791 | 253  | 0    | 0    |
| 35° | 356780 | 23209 | 80   | 0    | 0    |
| 40° | 304256 | 9818  | 0    | 0    | 0    |
| 45° | 178561 | 3690  | 93   | 0    | 93   |
| 50° | 43359  | 682   | 102  | 102  | 341  |
| 55° | 3785   | 0     | 268  | 382  | 535  |
| 60° | 132    | 0     | 307  | 439  | 746  |
| 65° | 156    | 156   | 519  | 519  | 882  |
| 70° | 192    | 192   | 641  | 641  | 898  |
| 75° | 0      | 254   | 847  | 847  | 847  |
| 80° | 0      | 379   | 1263 | 884  | 884  |
| 85° | 0      | 755   | 2516 | 755  | 755  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 178561 cd/sqm

TEST NUMBER: P1345232

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 0.9       |
| 10°-20°   | 51.1   | 13.7      |
| 20°-30°   | 129.9  | 34.9      |
| 30°-40°   | 129.5  | 34.8      |
| 40°-50°   | 52.5   | 14.1      |
| 50°-60°   | 3.6    | 1.0       |
| 60°-70°   | 0.8    | 0.2       |
| 70°-80°   | 0.8    | 0.2       |
| 80°-90°   | 0.5    | 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°    | 184.3  | 49.5      |
| 0°-40°    | 313.8  | 84.4      |
| 0°-60°    | 369.9  | 99.4      |
| 0°-90°    | 372.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 372.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 53   | 35  | 17  | 8    | 6    | 12   |
| 15° | 968  | 165 | 9   | 1    | 0    | 282  |
| 25° | 1564 | 234 | 3   | 0    | 0    | 706  |
| 35° | 1333 | 87  | 0   | 0    | 0    | 817  |
| 45° | 576  | 12  | 0   | 0    | 0    | 439  |
| 55° | 10   | 0   | 1   | 1    | 1    | 26   |
| 65° | 0    | 0   | 1   | 1    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 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°    | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7  | 17.7  | 17.7  | 17.7  | 17.7  |
| 2.5°  | 29.2   | 29.6   | 29.6   | 28.9   | 28.6   | 28.6   | 27.5  | 27.2  | 26.2  | 25.2  | 21.8  |
| 5°    | 53.0   | 52.0   | 50.6   | 50.6   | 47.6   | 45.9   | 43.5  | 40.8  | 38.8  | 35.4  | 25.2  |
| 7.5°  | 120.3  | 112.2  | 109.8  | 106.7  | 95.2   | 86.0   | 75.5  | 66.3  | 57.8  | 50.6  | 27.9  |
| 10°   | 303.6  | 287.6  | 274.3  | 247.5  | 213.8  | 181.5  | 151.6 | 116.9 | 93.1  | 74.1  | 29.9  |
| 12.5° | 611.5  | 590.1  | 564.6  | 515.7  | 452.8  | 372.2  | 300.8 | 224.7 | 157.7 | 109.1 | 30.6  |
| 15°   | 968.4  | 932.1  | 892.3  | 830.1  | 727.1  | 611.5  | 482.7 | 361.3 | 253.2 | 164.9 | 29.9  |
| 17.5° | 1259.4 | 1245.1 | 1186.3 | 1101.3 | 975.2  | 826.4  | 667.6 | 501.7 | 341.6 | 215.9 | 27.9  |
| 20°   | 1474.2 | 1464.4 | 1393.3 | 1302.9 | 1160.8 | 990.2  | 788.6 | 589.4 | 403.1 | 248.1 | 24.8  |
| 22.5° | 1577.9 | 1576.2 | 1524.9 | 1432.4 | 1281.8 | 1088.4 | 866.5 | 640.1 | 422.2 | 252.6 | 20.7  |
| 25°   | 1564.3 | 1570.4 | 1541.2 | 1472.5 | 1328.1 | 1128.9 | 889.6 | 640.1 | 408.2 | 233.9 | 17.3  |
| 27.5° | 1502.5 | 1506.5 | 1488.2 | 1435.5 | 1300.9 | 1099.7 | 857.3 | 598.9 | 367.8 | 200.9 | 14.3  |
| 30°   | 1460.0 | 1461.7 | 1438.9 | 1382.5 | 1239.7 | 1033.0 | 781.1 | 522.8 | 306.6 | 161.1 | 10.5  |
| 32.5° | 1408.3 | 1408.0 | 1381.4 | 1316.9 | 1159.5 | 939.5  | 684.6 | 432.0 | 235.6 | 122.4 | 6.1   |
| 35°   | 1332.8 | 1324.3 | 1288.3 | 1213.9 | 1039.8 | 813.8  | 561.2 | 329.0 | 169.6 | 86.7  | 3.7   |
| 37.5° | 1229.2 | 1207.1 | 1156.1 | 1056.5 | 871.9  | 638.0  | 416.1 | 231.1 | 115.9 | 57.4  | 2.4   |
| 40°   | 1062.9 | 1039.5 | 970.1  | 849.1  | 659.5  | 459.2  | 280.4 | 150.6 | 73.1  | 34.3  | 1.4   |
| 42.5° | 833.5  | 817.5  | 724.0  | 603.4  | 435.4  | 293.0  | 168.6 | 89.1  | 41.1  | 19.7  | 0.3   |
| 45°   | 575.8  | 555.1  | 481.7  | 379.4  | 261.4  | 162.5  | 94.5  | 46.6  | 23.5  | 11.9  | 0.0   |
| 47.5° | 317.8  | 292.3  | 249.8  | 196.5  | 131.6  | 85.3   | 47.6  | 25.2  | 13.3  | 5.8   | 0.0   |
| 50°   | 127.1  | 126.1  | 100.3  | 71.4   | 50.3   | 38.8   | 23.8  | 13.6  | 6.8   | 2.0   | 0.3   |
| 52.5° | 44.5   | 44.5   | 38.4   | 31.3   | 24.5   | 17.7   | 11.9  | 6.5   | 2.4   | 0.7   | 0.3   |
| 55°   | 9.9    | 10.9   | 10.2   | 9.5    | 9.2    | 7.8    | 5.1   | 2.4   | 0.7   | 0.0   | 0.3   |
| 57.5° | 1.0    | 1.0    | 1.0    | 1.4    | 1.7    | 1.7    | 1.4   | 0.7   | 0.0   | 0.0   | 0.3   |
| 60°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.0   | 0.0   | 0.0   | 0.7   |
| 62.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.0    | 0.0   | 0.0   | 0.3   | 0.3   | 0.7   |
| 65°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.7   |
| 67.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.7   |
| 70°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 1.0   |
| 72.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 1.0   |
| 75°   | 0.0    | 0.0    | 0.3    | 0.3    | 0.0    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 1.0   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.3   | 0.3   | 0.3   | 0.7   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.7   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.3   | 0.3   | 0.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.3   | 0.3   | 0.7   |
| 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°    | 17.7 | 17.7   | 17.7 | 17.7   | 17.7 |
| 2.5°  | 17.7 | 13.9   | 11.6 | 10.2   | 9.9  |
| 5°    | 16.7 | 10.5   | 7.5  | 6.5    | 6.1  |
| 7.5°  | 15.0 | 7.8    | 5.1  | 4.1    | 3.7  |
| 10°   | 12.9 | 5.8    | 3.4  | 2.4    | 2.4  |
| 12.5° | 10.9 | 4.4    | 2.0  | 1.0    | 0.7  |
| 15°   | 8.8  | 2.7    | 0.7  | 0.3    | 0.3  |
| 17.5° | 6.8  | 1.7    | 0.0  | 0.0    | 0.0  |
| 20°   | 5.4  | 0.7    | 0.0  | 0.0    | 0.0  |
| 22.5° | 4.1  | 0.3    | 0.0  | 0.0    | 0.0  |
| 25°   | 2.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 1.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.3  | 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°   | 0.3  | 0.0    | 0.0  | 0.3    | 0.3  |
| 47.5° | 0.3  | 0.3    | 0.3  | 0.7    | 0.7  |
| 50°   | 0.3  | 0.3    | 0.3  | 0.7    | 1.0  |
| 52.5° | 0.7  | 0.3    | 0.7  | 1.0    | 1.0  |
| 55°   | 0.7  | 0.7    | 1.0  | 1.4    | 1.4  |
| 57.5° | 0.7  | 0.7    | 1.0  | 1.4    | 1.4  |
| 60°   | 0.7  | 0.7    | 1.0  | 1.4    | 1.7  |
| 62.5° | 1.0  | 1.0    | 1.0  | 1.4    | 1.4  |
| 65°   | 1.0  | 1.0    | 1.0  | 1.4    | 1.7  |
| 67.5° | 1.0  | 1.0    | 1.0  | 1.4    | 1.7  |
| 70°   | 1.0  | 1.0    | 1.0  | 1.4    | 1.4  |
| 72.5° | 1.4  | 1.0    | 1.0  | 1.4    | 1.4  |
| 75°   | 1.0  | 1.0    | 1.0  | 1.0    | 1.0  |
| 77.5° | 1.0  | 1.0    | 0.7  | 1.0    | 1.0  |
| 80°   | 1.0  | 0.7    | 0.7  | 0.7    | 0.7  |
| 82.5° | 1.0  | 0.7    | 0.7  | 0.7    | 0.7  |
| 85°   | 1.0  | 0.7    | 0.3  | 0.3    | 0.3  |
| 87.5° | 1.0  | 0.7    | 0.3  | 0.3    | 0.3  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)