

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: P1335125

Luminaire Tested: P3A02R309827DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335125  
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: P3A02R309827DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

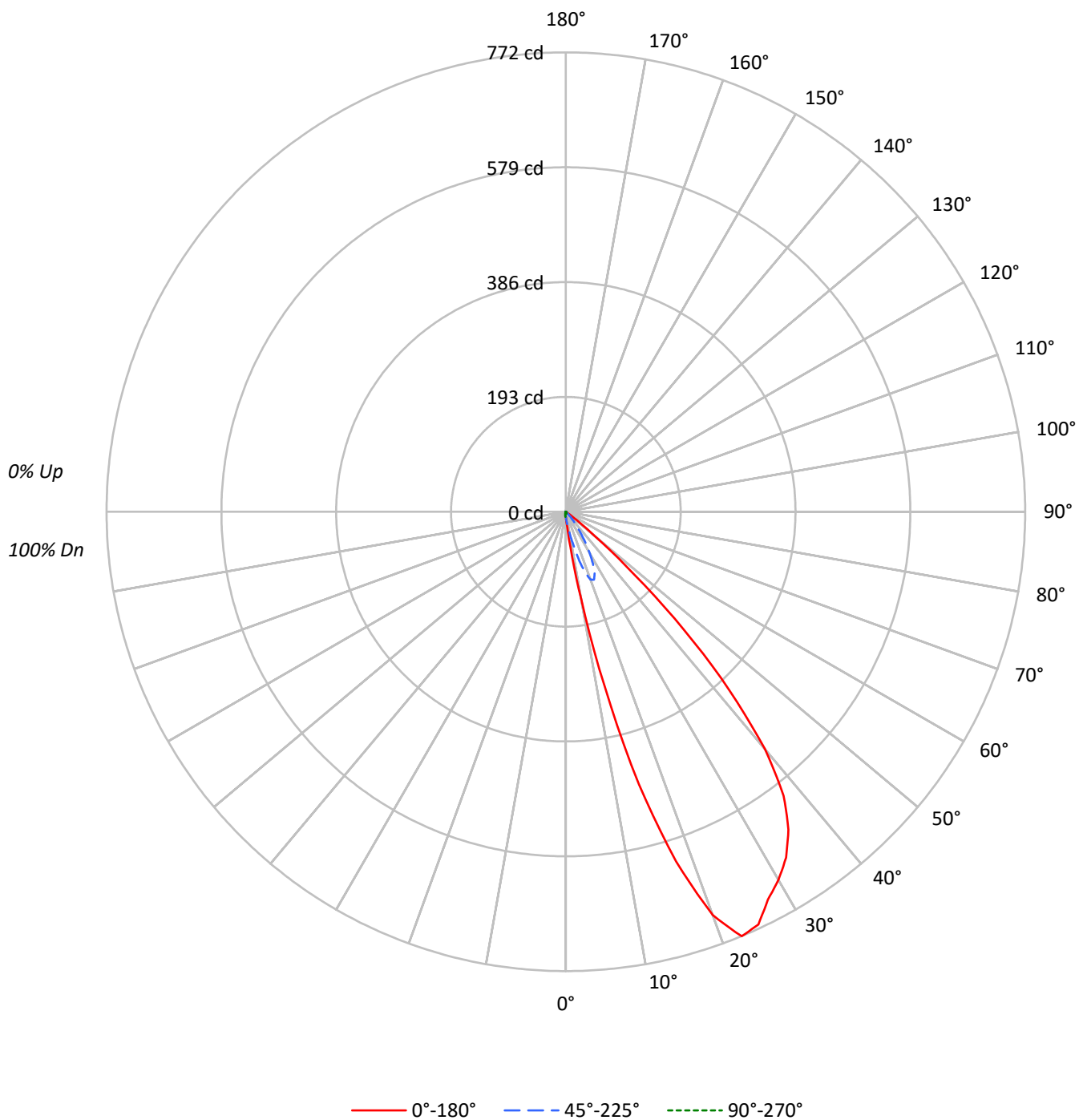
Lumens per Lamp: N/A  
Luminaire Lumens: 182.0 lumens  
Efficiency: N/A  
Efficacy: 50.6 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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  | 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  | 87  | 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   | 66  | 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°  | 1886   | 1886  | 1886 | 1886 | 1886 |
| 5°  | 5701   | 3808  | 1783 | 814  | 660  |
| 10° | 33066  | 8083  | 1403 | 379  | 267  |
| 15° | 107560 | 18320 | 976  | 68   | 45   |
| 20° | 168318 | 28329 | 630  | 0    | 0    |
| 25° | 185164 | 27679 | 315  | 0    | 0    |
| 30° | 180863 | 19952 | 127  | 0    | 0    |
| 35° | 174562 | 11350 | 54   | 0    | 0    |
| 40° | 148850 | 4809  | 0    | 0    | 0    |
| 45° | 87358  | 1799  | 62   | 0    | 62   |
| 50° | 21219  | 341   | 68   | 68   | 171  |
| 55° | 1835   | 0     | 115  | 191  | 268  |
| 60° | 88     | 0     | 132  | 219  | 351  |
| 65° | 104    | 104   | 259  | 259  | 415  |
| 70° | 128    | 128   | 321  | 321  | 449  |
| 75° | 0      | 169   | 424  | 424  | 424  |
| 80° | 0      | 253   | 631  | 379  | 379  |
| 85° | 0      | 503   | 1258 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 87358 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.9       |
| 10°-20°   | 25.0   | 13.7      |
| 20°-30°   | 63.6   | 34.9      |
| 30°-40°   | 63.4   | 34.8      |
| 40°-50°   | 25.7   | 14.1      |
| 50°-60°   | 1.8    | 1.0       |
| 60°-70°   | 0.4    | 0.2       |
| 70°-80°   | 0.4    | 0.2       |
| 80°-90°   | 0.2    | 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°    | 90.2   | 49.5      |
| 0°-40°    | 153.5  | 84.3      |
| 0°-60°    | 181.0  | 99.4      |
| 0°-90°    | 182.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 182.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 9   | 9   | 9   | 9    | 9    |      |
| 5°  | 26  | 17  | 8   | 4    | 3    | 6    |
| 15° | 474 | 81  | 4   | 0    | 0    | 138  |
| 25° | 765 | 114 | 1   | 0    | 0    | 346  |
| 35° | 652 | 42  | 0   | 0    | 0    | 400  |
| 45° | 282 | 6   | 0   | 0    | 0    | 215  |
| 55° | 5   | 0   | 0   | 0    | 1    | 13   |
| 65° | 0   | 0   | 0   | 0    | 1    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 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°    | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   |
| 2.5°  | 14.3  | 14.5  | 14.5  | 14.1  | 14.0  | 14.0  | 13.5  | 13.3  | 12.8  | 12.3  | 10.6  |
| 5°    | 25.9  | 25.4  | 24.8  | 24.8  | 23.3  | 22.5  | 21.3  | 20.0  | 19.0  | 17.3  | 12.3  |
| 7.5°  | 58.9  | 54.9  | 53.7  | 52.2  | 46.6  | 42.1  | 36.9  | 32.4  | 28.3  | 24.8  | 13.6  |
| 10°   | 148.5 | 140.7 | 134.2 | 121.1 | 104.6 | 88.8  | 74.2  | 57.2  | 45.6  | 36.3  | 14.6  |
| 12.5° | 299.2 | 288.7 | 276.2 | 252.3 | 221.5 | 182.1 | 147.2 | 109.9 | 77.2  | 53.4  | 15.0  |
| 15°   | 473.8 | 456.0 | 436.6 | 406.1 | 355.7 | 299.2 | 236.2 | 176.8 | 123.9 | 80.7  | 14.6  |
| 17.5° | 616.2 | 609.2 | 580.4 | 538.8 | 477.1 | 404.3 | 326.6 | 245.5 | 167.1 | 105.6 | 13.6  |
| 20°   | 721.3 | 716.4 | 681.7 | 637.5 | 567.9 | 484.5 | 385.8 | 288.4 | 197.2 | 121.4 | 12.1  |
| 22.5° | 772.0 | 771.2 | 746.1 | 700.8 | 627.1 | 532.5 | 423.9 | 313.2 | 206.6 | 123.6 | 10.1  |
| 25°   | 765.3 | 768.3 | 754.0 | 720.4 | 649.8 | 552.3 | 435.2 | 313.2 | 199.7 | 114.4 | 8.5   |
| 27.5° | 735.1 | 737.1 | 728.1 | 702.3 | 636.5 | 538.0 | 419.4 | 293.0 | 179.9 | 98.3  | 7.0   |
| 30°   | 714.3 | 715.1 | 704.0 | 676.4 | 606.5 | 505.4 | 382.2 | 255.8 | 150.0 | 78.8  | 5.2   |
| 32.5° | 689.0 | 688.8 | 675.9 | 644.3 | 567.3 | 459.7 | 334.9 | 211.4 | 115.3 | 59.9  | 3.0   |
| 35°   | 652.1 | 647.9 | 630.3 | 593.9 | 508.7 | 398.1 | 274.6 | 161.0 | 83.0  | 42.4  | 1.8   |
| 37.5° | 601.4 | 590.6 | 565.6 | 516.9 | 426.6 | 312.2 | 203.6 | 113.1 | 56.7  | 28.1  | 1.2   |
| 40°   | 520.0 | 508.6 | 474.6 | 415.4 | 322.6 | 224.7 | 137.2 | 73.7  | 35.8  | 16.8  | 0.7   |
| 42.5° | 407.8 | 400.0 | 354.2 | 295.2 | 213.0 | 143.4 | 82.5  | 43.6  | 20.1  | 9.6   | 0.2   |
| 45°   | 281.7 | 271.6 | 235.7 | 185.6 | 127.9 | 79.5  | 46.2  | 22.8  | 11.5  | 5.8   | 0.0   |
| 47.5° | 155.5 | 143.0 | 122.2 | 96.1  | 64.4  | 41.7  | 23.3  | 12.3  | 6.5   | 2.8   | 0.0   |
| 50°   | 62.2  | 61.7  | 49.1  | 34.9  | 24.6  | 19.0  | 11.6  | 6.7   | 3.3   | 1.0   | 0.2   |
| 52.5° | 21.8  | 21.8  | 18.8  | 15.3  | 12.0  | 8.6   | 5.8   | 3.2   | 1.2   | 0.3   | 0.2   |
| 55°   | 4.8   | 5.3   | 5.0   | 4.7   | 4.5   | 3.8   | 2.5   | 1.2   | 0.3   | 0.0   | 0.2   |
| 57.5° | 0.5   | 0.5   | 0.5   | 0.7   | 0.8   | 0.8   | 0.7   | 0.3   | 0.0   | 0.0   | 0.2   |
| 60°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.0   | 0.0   | 0.0   | 0.3   |
| 62.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.3   |
| 65°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   |
| 67.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   |
| 70°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 75°   | 0.0   | 0.0   | 0.2   | 0.2   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.3   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.3   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.3   |
| 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°    | 8.6 | 8.6    | 8.6  | 8.6    | 8.6  |
| 2.5°  | 8.6 | 6.8    | 5.7  | 5.0    | 4.8  |
| 5°    | 8.1 | 5.2    | 3.7  | 3.2    | 3.0  |
| 7.5°  | 7.3 | 3.8    | 2.5  | 2.0    | 1.8  |
| 10°   | 6.3 | 2.8    | 1.7  | 1.2    | 1.2  |
| 12.5° | 5.3 | 2.2    | 1.0  | 0.5    | 0.3  |
| 15°   | 4.3 | 1.3    | 0.3  | 0.2    | 0.2  |
| 17.5° | 3.3 | 0.8    | 0.0  | 0.0    | 0.0  |
| 20°   | 2.7 | 0.3    | 0.0  | 0.0    | 0.0  |
| 22.5° | 2.0 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 1.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 0.8 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.2 | 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°   | 0.2 | 0.0    | 0.0  | 0.2    | 0.2  |
| 47.5° | 0.2 | 0.2    | 0.2  | 0.3    | 0.3  |
| 50°   | 0.2 | 0.2    | 0.2  | 0.3    | 0.5  |
| 52.5° | 0.3 | 0.2    | 0.3  | 0.5    | 0.5  |
| 55°   | 0.3 | 0.3    | 0.5  | 0.7    | 0.7  |
| 57.5° | 0.3 | 0.3    | 0.5  | 0.7    | 0.7  |
| 60°   | 0.3 | 0.3    | 0.5  | 0.7    | 0.8  |
| 62.5° | 0.5 | 0.5    | 0.5  | 0.7    | 0.7  |
| 65°   | 0.5 | 0.5    | 0.5  | 0.7    | 0.8  |
| 67.5° | 0.5 | 0.5    | 0.5  | 0.7    | 0.8  |
| 70°   | 0.5 | 0.5    | 0.5  | 0.7    | 0.7  |
| 72.5° | 0.7 | 0.5    | 0.5  | 0.7    | 0.7  |
| 75°   | 0.5 | 0.5    | 0.5  | 0.5    | 0.5  |
| 77.5° | 0.5 | 0.5    | 0.3  | 0.5    | 0.5  |
| 80°   | 0.5 | 0.3    | 0.3  | 0.3    | 0.3  |
| 82.5° | 0.5 | 0.3    | 0.3  | 0.3    | 0.3  |
| 85°   | 0.5 | 0.3    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.5 | 0.3    | 0.2  | 0.2    | 0.2  |
| 90°   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)