

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: P1334974

Luminaire Tested: P3A02R309030D2WDE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334974  
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: P3A02R309030D2WDE010 E3A301WMH  
Description: 3in Adjustable Dim to Warm LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,  
E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

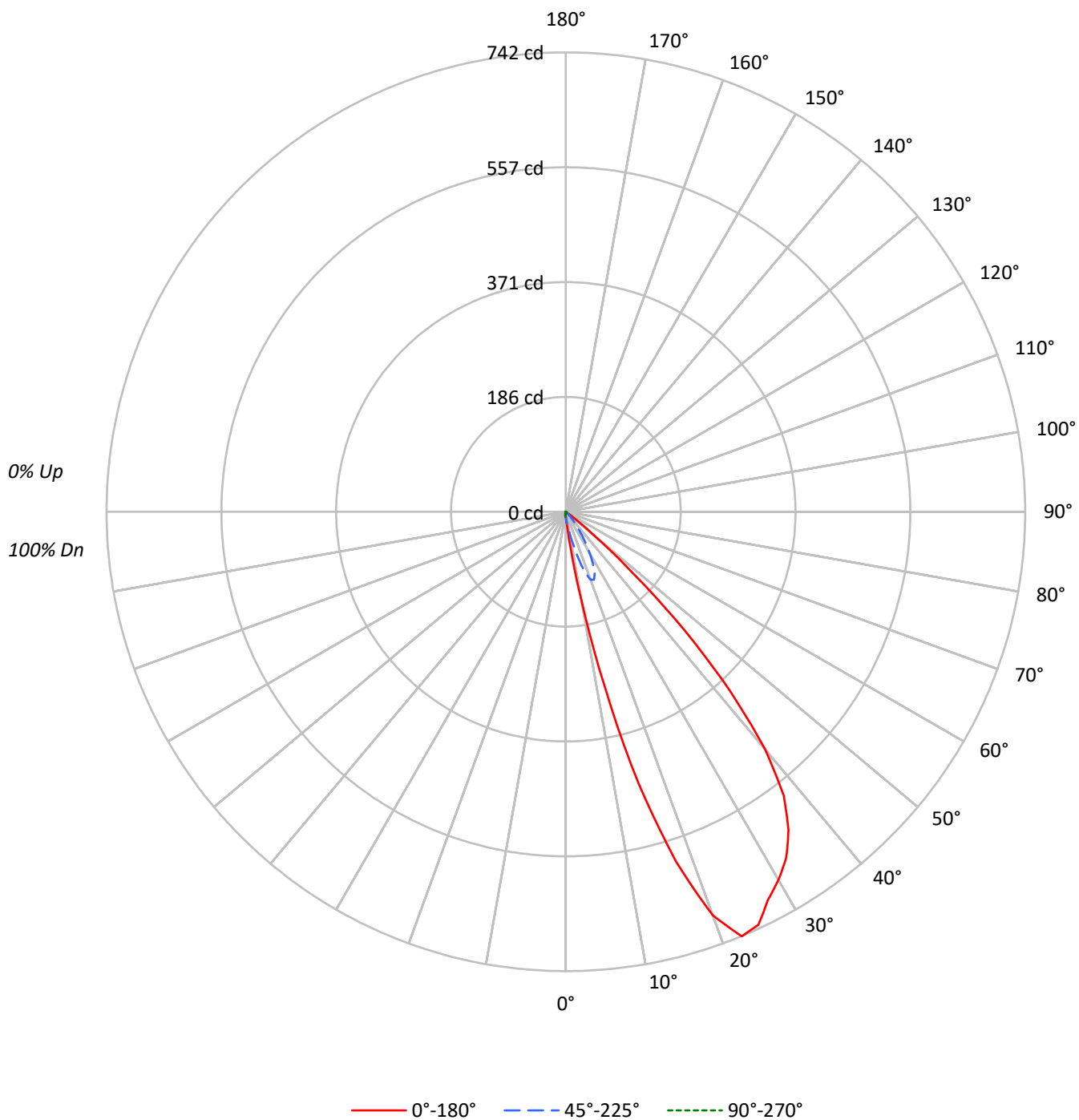
Lumens per Lamp: N/A  
Luminaire Lumens: 175.0 lumens  
Efficiency: N/A  
Efficacy: 24.3 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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°  | 1820   | 1820  | 1820 | 1820 | 1820 |
| 5°  | 5481   | 3654  | 1717 | 770  | 638  |
| 10° | 31796  | 7771  | 1358 | 356  | 245  |
| 15° | 103429 | 17616 | 953  | 68   | 45   |
| 20° | 161831 | 27232 | 607  | 0    | 0    |
| 25° | 178051 | 26614 | 315  | 0    | 0    |
| 30° | 173900 | 19193 | 127  | 0    | 0    |
| 35° | 167843 | 10922 | 54   | 0    | 0    |
| 40° | 143125 | 4637  | 0    | 0    | 0    |
| 45° | 84009  | 1737  | 62   | 0    | 62   |
| 50° | 20400  | 341   | 68   | 68   | 171  |
| 55° | 1759   | 0     | 115  | 191  | 229  |
| 60° | 88     | 0     | 132  | 219  | 351  |
| 65° | 104    | 104   | 259  | 259  | 415  |
| 70° | 128    | 128   | 321  | 321  | 385  |
| 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: 84009 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.5    | 0.9       |
| 10°-20°   | 24.1   | 13.7      |
| 20°-30°   | 61.1   | 34.9      |
| 30°-40°   | 60.9   | 34.8      |
| 40°-50°   | 24.7   | 14.1      |
| 50°-60°   | 1.7    | 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°    | 86.7   | 49.5      |
| 0°-40°    | 147.6  | 84.3      |
| 0°-60°    | 174.0  | 99.4      |
| 0°-90°    | 175.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 175.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 8   | 8   | 8   | 8    | 8    |      |
| 5°  | 25  | 17  | 8   | 4    | 3    | 6    |
| 15° | 456 | 78  | 4   | 0    | 0    | 133  |
| 25° | 736 | 110 | 1   | 0    | 0    | 332  |
| 35° | 627 | 41  | 0   | 0    | 0    | 384  |
| 45° | 271 | 6   | 0   | 0    | 0    | 207  |
| 55° | 5   | 0   | 0   | 0    | 1    | 12   |
| 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°    | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   |
| 2.5°  | 13.8  | 13.9  | 13.9  | 13.6  | 13.4  | 13.4  | 13.0  | 12.8  | 12.3  | 11.8  | 10.2  |
| 5°    | 24.9  | 24.5  | 23.8  | 23.8  | 22.4  | 21.6  | 20.5  | 19.2  | 18.2  | 16.6  | 11.8  |
| 7.5°  | 56.6  | 52.8  | 51.7  | 50.2  | 44.8  | 40.5  | 35.5  | 31.2  | 27.2  | 23.8  | 13.1  |
| 10°   | 142.8 | 135.3 | 129.0 | 116.4 | 100.6 | 85.4  | 71.3  | 55.0  | 43.8  | 34.9  | 14.1  |
| 12.5° | 287.7 | 277.6 | 265.6 | 242.6 | 213.0 | 175.1 | 141.5 | 105.7 | 74.2  | 51.3  | 14.4  |
| 15°   | 455.6 | 438.5 | 419.8 | 390.5 | 342.0 | 287.7 | 227.1 | 170.0 | 119.1 | 77.6  | 14.1  |
| 17.5° | 592.5 | 585.8 | 558.1 | 518.1 | 458.8 | 388.7 | 314.1 | 236.0 | 160.7 | 101.5 | 13.1  |
| 20°   | 693.5 | 688.9 | 655.5 | 612.9 | 546.1 | 465.8 | 371.0 | 277.3 | 189.7 | 116.7 | 11.7  |
| 22.5° | 742.3 | 741.5 | 717.4 | 673.9 | 603.0 | 512.0 | 407.6 | 301.1 | 198.6 | 118.8 | 9.8   |
| 25°   | 735.9 | 738.8 | 725.0 | 692.7 | 624.8 | 531.1 | 418.5 | 301.1 | 192.1 | 110.0 | 8.2   |
| 27.5° | 706.8 | 708.7 | 700.1 | 675.3 | 612.0 | 517.3 | 403.3 | 281.8 | 173.0 | 94.5  | 6.7   |
| 30°   | 686.8 | 687.6 | 676.9 | 650.4 | 583.2 | 486.0 | 367.5 | 245.9 | 144.2 | 75.8  | 5.0   |
| 32.5° | 662.5 | 662.3 | 649.9 | 619.5 | 545.5 | 442.0 | 322.1 | 203.2 | 110.8 | 57.6  | 2.9   |
| 35°   | 627.0 | 623.0 | 606.1 | 571.0 | 489.2 | 382.8 | 264.0 | 154.8 | 79.8  | 40.8  | 1.8   |
| 37.5° | 578.2 | 567.8 | 543.9 | 497.0 | 410.2 | 300.2 | 195.7 | 108.7 | 54.5  | 27.0  | 1.1   |
| 40°   | 500.0 | 489.0 | 456.4 | 399.5 | 310.2 | 216.0 | 131.9 | 70.8  | 34.4  | 16.2  | 0.6   |
| 42.5° | 392.1 | 384.6 | 340.6 | 283.8 | 204.8 | 137.8 | 79.3  | 41.9  | 19.3  | 9.3   | 0.2   |
| 45°   | 270.9 | 261.1 | 226.6 | 178.5 | 123.0 | 76.4  | 44.5  | 21.9  | 11.0  | 5.6   | 0.0   |
| 47.5° | 149.5 | 137.5 | 117.5 | 92.4  | 61.9  | 40.1  | 22.4  | 11.8  | 6.2   | 2.7   | 0.0   |
| 50°   | 59.8  | 59.3  | 47.2  | 33.6  | 23.7  | 18.2  | 11.2  | 6.4   | 3.2   | 1.0   | 0.2   |
| 52.5° | 20.9  | 20.9  | 18.1  | 14.7  | 11.5  | 8.3   | 5.6   | 3.0   | 1.1   | 0.3   | 0.2   |
| 55°   | 4.6   | 5.1   | 4.8   | 4.5   | 4.3   | 3.7   | 2.4   | 1.1   | 0.3   | 0.0   | 0.2   |
| 57.5° | 0.5   | 0.5   | 0.5   | 0.6   | 0.8   | 0.8   | 0.6   | 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°    | 8.3 | 8.3    | 8.3  | 8.3    | 8.3  |
| 2.5°  | 8.3 | 6.6    | 5.4  | 4.8    | 4.6  |
| 5°    | 7.8 | 5.0    | 3.5  | 3.0    | 2.9  |
| 7.5°  | 7.0 | 3.7    | 2.4  | 1.9    | 1.8  |
| 10°   | 6.1 | 2.7    | 1.6  | 1.1    | 1.1  |
| 12.5° | 5.1 | 2.1    | 1.0  | 0.5    | 0.3  |
| 15°   | 4.2 | 1.3    | 0.3  | 0.2    | 0.2  |
| 17.5° | 3.2 | 0.8    | 0.0  | 0.0    | 0.0  |
| 20°   | 2.6 | 0.3    | 0.0  | 0.0    | 0.0  |
| 22.5° | 1.9 | 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  | 0.6    | 0.6  |
| 57.5° | 0.3 | 0.3    | 0.5  | 0.6    | 0.6  |
| 60°   | 0.3 | 0.3    | 0.5  | 0.6    | 0.8  |
| 62.5° | 0.5 | 0.5    | 0.5  | 0.6    | 0.6  |
| 65°   | 0.5 | 0.5    | 0.5  | 0.6    | 0.8  |
| 67.5° | 0.5 | 0.5    | 0.5  | 0.6    | 0.8  |
| 70°   | 0.5 | 0.5    | 0.5  | 0.6    | 0.6  |
| 72.5° | 0.6 | 0.5    | 0.5  | 0.6    | 0.6  |
| 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)