

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: P1335086

Luminaire Tested: P3A02R309735DE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335086  
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: P3A02R309735DE010 E3A301WMH  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

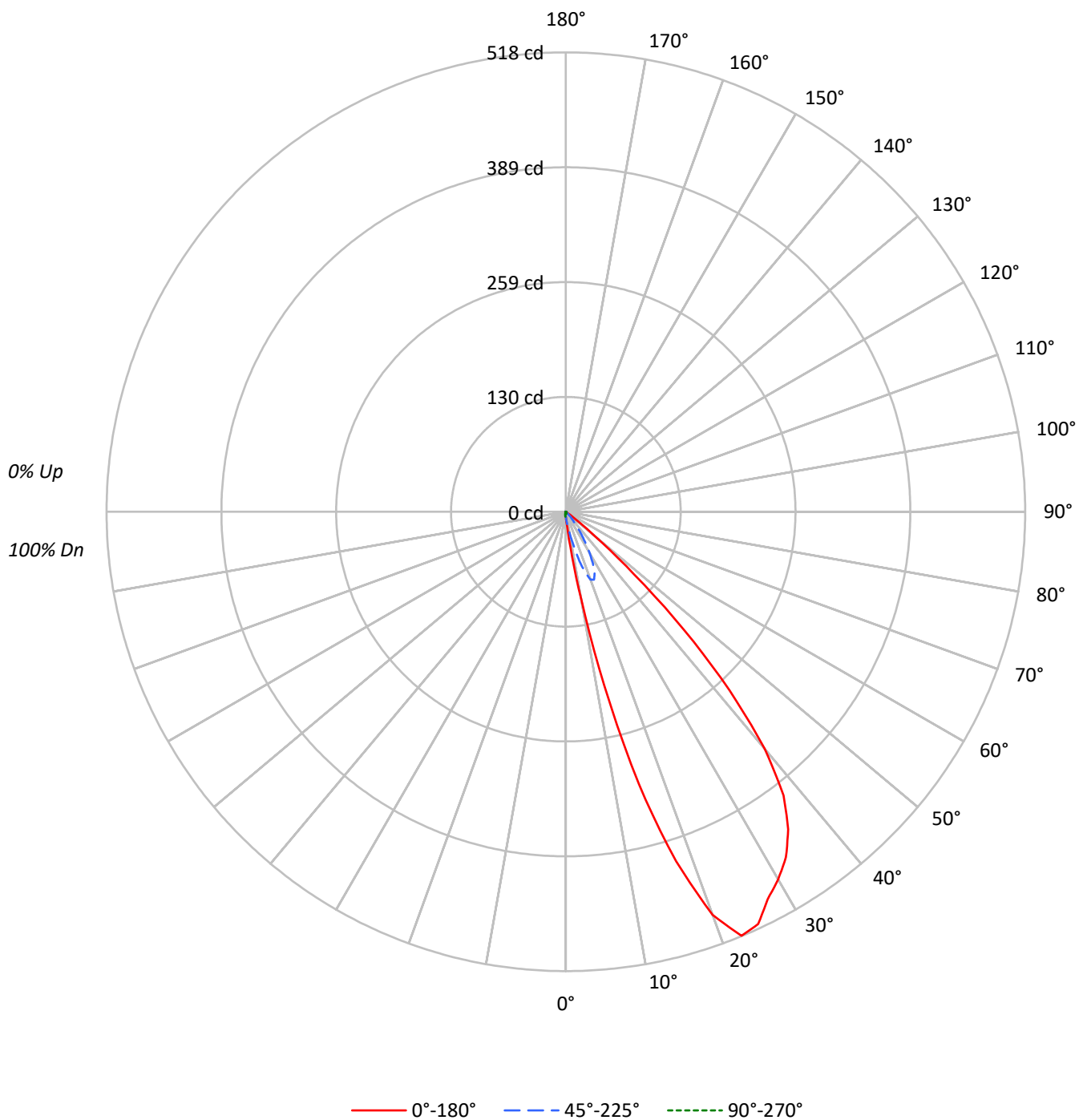
Lumens per Lamp: N/A  
Luminaire Lumens: 121.9 lumens  
Efficiency: N/A  
Efficacy: 33.9 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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  | 104 | 98  | 94  | 91  | 95  | 92  | 89  | 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  | 81  | 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  | 53  | 47  | 43  | 52  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1272   | 1272  | 1272 | 1272 | 1272 |
| 5°  | 3830   | 2553  | 1211 | 550  | 440  |
| 10° | 22177  | 5411  | 935  | 245  | 178  |
| 15° | 72100  | 12282 | 658  | 45   | 23   |
| 20° | 112826 | 18995 | 420  | 0    | 0    |
| 25° | 124120 | 18558 | 218  | 0    | 0    |
| 30° | 121234 | 13369 | 76   | 0    | 0    |
| 35° | 117008 | 7602  | 27   | 0    | 0    |
| 40° | 99787  | 3235  | 0    | 0    | 0    |
| 45° | 58549  | 1209  | 31   | 0    | 31   |
| 50° | 14226  | 239   | 34   | 34   | 102  |
| 55° | 1223   | 0     | 76   | 115  | 153  |
| 60° | 44     | 0     | 88   | 132  | 263  |
| 65° | 52     | 52    | 156  | 156  | 311  |
| 70° | 64     | 64    | 192  | 192  | 256  |
| 75° | 0      | 85    | 254  | 254  | 254  |
| 80° | 0      | 126   | 379  | 253  | 253  |
| 85° | 0      | 252   | 755  | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58549 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.9       |
| 10°-20°   | 16.8   | 13.8      |
| 20°-30°   | 42.6   | 35.0      |
| 30°-40°   | 42.5   | 34.8      |
| 40°-50°   | 17.2   | 14.1      |
| 50°-60°   | 1.2    | 1.0       |
| 60°-70°   | 0.2    | 0.2       |
| 70°-80°   | 0.2    | 0.2       |
| 80°-90°   | 0.1    | 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°    | 60.4   | 49.6      |
| 0°-40°    | 102.9  | 84.4      |
| 0°-60°    | 121.3  | 99.5      |
| 0°-90°    | 121.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 121.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 6   | 6   | 6   | 6    | 6    |      |
| 5°  | 17  | 12  | 6   | 2    | 2    | 4    |
| 15° | 318 | 54  | 3   | 0    | 0    | 92   |
| 25° | 513 | 77  | 1   | 0    | 0    | 232  |
| 35° | 437 | 28  | 0   | 0    | 0    | 268  |
| 45° | 189 | 4   | 0   | 0    | 0    | 144  |
| 55° | 3   | 0   | 0   | 0    | 0    | 8    |
| 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°    | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8   | 5.8  | 5.8   |
| 2.5°  | 9.6   | 9.7   | 9.7   | 9.5   | 9.4   | 9.4   | 9.0   | 8.9   | 8.6   | 8.2  | 7.1   |
| 5°    | 17.4  | 17.1  | 16.6  | 16.6  | 15.6  | 15.0  | 14.3  | 13.4  | 12.7  | 11.6 | 8.2   |
| 7.5°  | 39.5  | 36.8  | 36.0  | 35.0  | 31.2  | 28.2  | 24.7  | 21.7  | 19.0  | 16.6 | 9.1   |
| 10°   | 99.6  | 94.3  | 90.0  | 81.2  | 70.1  | 59.5  | 49.7  | 38.3  | 30.5  | 24.3 | 9.8   |
| 12.5° | 200.6 | 193.5 | 185.2 | 169.1 | 148.5 | 122.1 | 98.7  | 73.7  | 51.7  | 35.8 | 10.0  |
| 15°   | 317.6 | 305.7 | 292.6 | 272.2 | 238.5 | 200.6 | 158.3 | 118.5 | 83.1  | 54.1 | 9.8   |
| 17.5° | 413.0 | 408.4 | 389.1 | 361.2 | 319.8 | 271.0 | 218.9 | 164.5 | 112.0 | 70.8 | 9.1   |
| 20°   | 483.5 | 480.3 | 457.0 | 427.3 | 380.7 | 324.7 | 258.6 | 193.3 | 132.2 | 81.4 | 8.1   |
| 22.5° | 517.5 | 516.9 | 500.1 | 469.8 | 420.4 | 357.0 | 284.2 | 209.9 | 138.5 | 82.8 | 6.8   |
| 25°   | 513.0 | 515.0 | 505.5 | 482.9 | 435.6 | 370.2 | 291.7 | 209.9 | 133.9 | 76.7 | 5.7   |
| 27.5° | 492.7 | 494.1 | 488.1 | 470.8 | 426.6 | 360.6 | 281.2 | 196.4 | 120.6 | 65.9 | 4.7   |
| 30°   | 478.8 | 479.4 | 471.9 | 453.4 | 406.6 | 338.8 | 256.2 | 171.5 | 100.6 | 52.8 | 3.5   |
| 32.5° | 461.9 | 461.8 | 453.1 | 431.9 | 380.3 | 308.1 | 224.5 | 141.7 | 77.3  | 40.1 | 2.0   |
| 35°   | 437.1 | 434.3 | 422.5 | 398.1 | 341.0 | 266.9 | 184.1 | 107.9 | 55.6  | 28.4 | 1.2   |
| 37.5° | 403.1 | 395.9 | 379.1 | 346.5 | 285.9 | 209.2 | 136.5 | 75.8  | 38.0  | 18.8 | 0.8   |
| 40°   | 348.6 | 340.9 | 318.2 | 278.5 | 216.3 | 150.6 | 92.0  | 49.4  | 24.0  | 11.3 | 0.4   |
| 42.5° | 273.3 | 268.1 | 237.5 | 197.9 | 142.8 | 96.1  | 55.3  | 29.2  | 13.5  | 6.5  | 0.1   |
| 45°   | 188.8 | 182.0 | 158.0 | 124.4 | 85.7  | 53.3  | 31.0  | 15.3  | 7.7   | 3.9  | 0.0   |
| 47.5° | 104.2 | 95.9  | 81.9  | 64.4  | 43.1  | 28.0  | 15.6  | 8.2   | 4.3   | 1.9  | 0.0   |
| 50°   | 41.7  | 41.4  | 32.9  | 23.4  | 16.5  | 12.7  | 7.8   | 4.5   | 2.2   | 0.7  | 0.1   |
| 52.5° | 14.6  | 14.6  | 12.6  | 10.3  | 8.0   | 5.8   | 3.9   | 2.1   | 0.8   | 0.2  | 0.1   |
| 55°   | 3.2   | 3.6   | 3.3   | 3.1   | 3.0   | 2.6   | 1.7   | 0.8   | 0.2   | 0.0  | 0.1   |
| 57.5° | 0.3   | 0.3   | 0.3   | 0.4   | 0.6   | 0.6   | 0.4   | 0.2   | 0.0   | 0.0  | 0.1   |
| 60°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.0   | 0.0   | 0.0  | 0.2   |
| 62.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1  | 0.2   |
| 65°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  | 0.2   |
| 67.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  | 0.2   |
| 70°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  | 0.3   |
| 72.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  | 0.3   |
| 75°   | 0.0   | 0.0   | 0.1   | 0.1   | 0.0   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  | 0.3   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  | 0.2   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1  | 0.2   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  | 0.2   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1  | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1  | 0.2   |
| 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°    | 5.8 | 5.8    | 5.8  | 5.8    | 5.8  |
| 2.5°  | 5.8 | 4.6    | 3.8  | 3.3    | 3.2  |
| 5°    | 5.5 | 3.5    | 2.5  | 2.1    | 2.0  |
| 7.5°  | 4.9 | 2.6    | 1.7  | 1.3    | 1.2  |
| 10°   | 4.2 | 1.9    | 1.1  | 0.8    | 0.8  |
| 12.5° | 3.6 | 1.4    | 0.7  | 0.3    | 0.2  |
| 15°   | 2.9 | 0.9    | 0.2  | 0.1    | 0.1  |
| 17.5° | 2.2 | 0.6    | 0.0  | 0.0    | 0.0  |
| 20°   | 1.8 | 0.2    | 0.0  | 0.0    | 0.0  |
| 22.5° | 1.3 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 0.9 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27.5° | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32.5° | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.1 | 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°   | 0.1 | 0.0    | 0.0  | 0.1    | 0.1  |
| 47.5° | 0.1 | 0.1    | 0.1  | 0.2    | 0.2  |
| 50°   | 0.1 | 0.1    | 0.1  | 0.2    | 0.3  |
| 52.5° | 0.2 | 0.1    | 0.2  | 0.3    | 0.3  |
| 55°   | 0.2 | 0.2    | 0.3  | 0.4    | 0.4  |
| 57.5° | 0.2 | 0.2    | 0.3  | 0.4    | 0.4  |
| 60°   | 0.2 | 0.2    | 0.3  | 0.4    | 0.6  |
| 62.5° | 0.3 | 0.3    | 0.3  | 0.4    | 0.4  |
| 65°   | 0.3 | 0.3    | 0.3  | 0.4    | 0.6  |
| 67.5° | 0.3 | 0.3    | 0.3  | 0.4    | 0.6  |
| 70°   | 0.3 | 0.3    | 0.3  | 0.4    | 0.4  |
| 72.5° | 0.4 | 0.3    | 0.3  | 0.4    | 0.4  |
| 75°   | 0.3 | 0.3    | 0.3  | 0.3    | 0.3  |
| 77.5° | 0.3 | 0.3    | 0.2  | 0.3    | 0.3  |
| 80°   | 0.3 | 0.2    | 0.2  | 0.2    | 0.2  |
| 82.5° | 0.3 | 0.2    | 0.2  | 0.2    | 0.2  |
| 85°   | 0.3 | 0.2    | 0.1  | 0.1    | 0.1  |
| 87.5° | 0.3 | 0.2    | 0.1  | 0.1    | 0.1  |
| 90°   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)