

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: P1339030

Luminaire Tested: P3A05R409840DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1339030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R409840DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

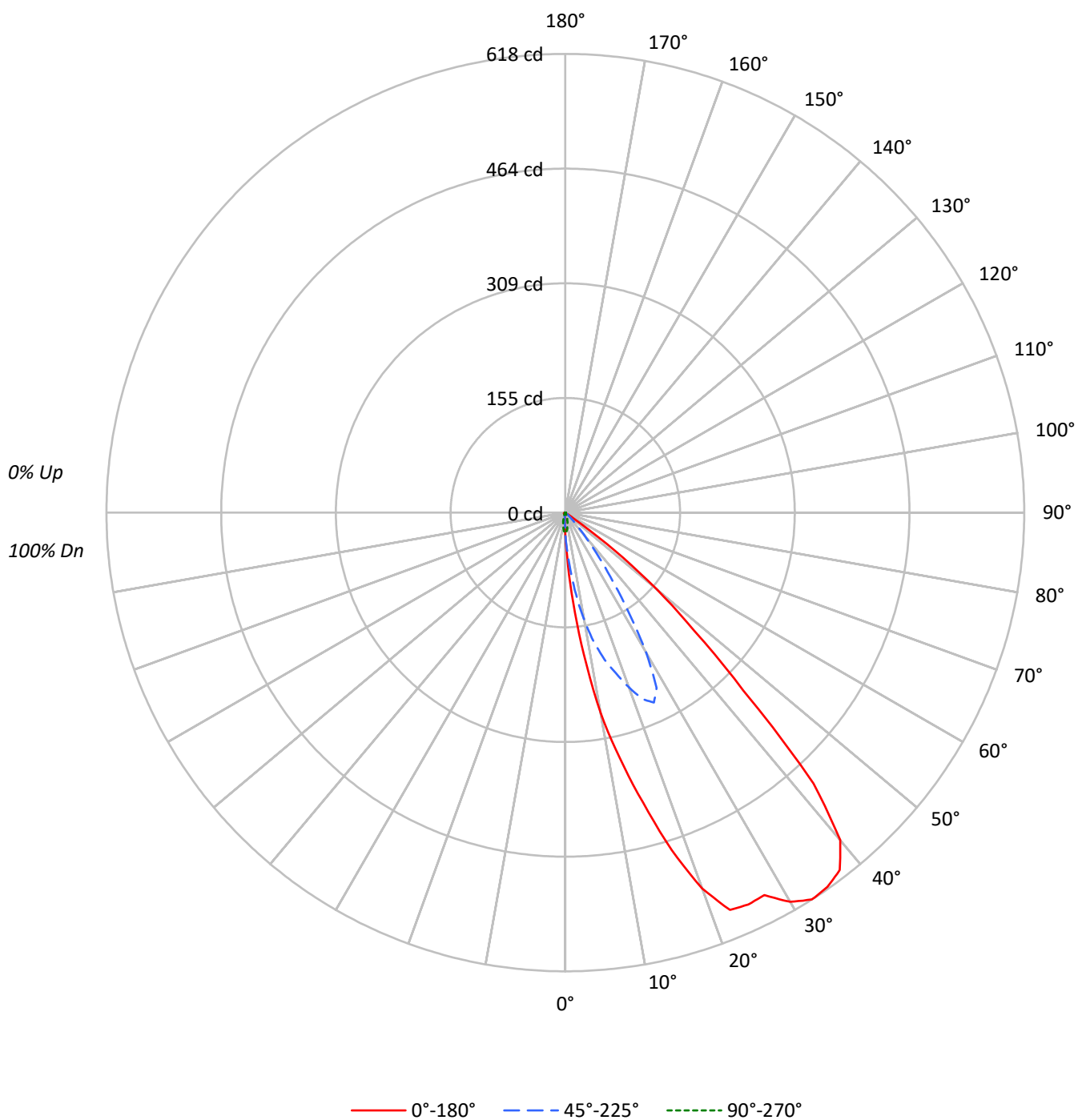
Lumens per Lamp: N/A  
Luminaire Lumens: 228.0 lumens  
Efficiency: N/A  
Efficacy: 31.7 lumens/watt  
Spacing Criteria (0/90/45): 2.52 / 0.42 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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 |
| 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5921   | 5921  | 5921 | 5921 | 5921 |
| 5°  | 26678  | 17015 | 5305 | 2025 | 1475 |
| 10° | 61188  | 32865 | 3741 | 735  | 557  |
| 15° | 91828  | 46629 | 2316 | 386  | 341  |
| 20° | 125731 | 58455 | 1353 | 233  | 280  |
| 25° | 140936 | 68302 | 702  | 194  | 242  |
| 30° | 153315 | 55148 | 304  | 152  | 253  |
| 35° | 164765 | 28215 | 107  | 214  | 321  |
| 40° | 164823 | 11250 | 57   | 229  | 372  |
| 45° | 105220 | 3752  | 124  | 372  | 527  |
| 50° | 54617  | 443   | 205  | 443  | 648  |
| 55° | 4702   | 76    | 229  | 573  | 803  |
| 60° | 175    | 88    | 263  | 658  | 921  |
| 65° | 208    | 104   | 415  | 675  | 986  |
| 70° | 128    | 128   | 513  | 769  | 962  |
| 75° | 169    | 169   | 508  | 847  | 1101 |
| 80° | 253    | 253   | 758  | 758  | 1010 |
| 85° | 0      | 503   | 1510 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 105220 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.3    | 2.3       |
| 10°-20°   | 30.9   | 13.5      |
| 20°-30°   | 67.6   | 29.6      |
| 30°-40°   | 77.0   | 33.8      |
| 40°-50°   | 40.6   | 17.8      |
| 50°-60°   | 4.8    | 2.1       |
| 60°-70°   | 0.9    | 0.4       |
| 70°-80°   | 0.7    | 0.3       |
| 80°-90°   | 0.3    | 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°    | 103.7  | 45.5      |
| 0°-40°    | 180.7  | 79.2      |
| 0°-60°    | 226.1  | 99.2      |
| 0°-90°    | 228.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 228.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 27  | 27  | 27  | 27   | 27   |      |
| 5°  | 121 | 77  | 24  | 9    | 7    | 16   |
| 15° | 404 | 205 | 10  | 2    | 2    | 119  |
| 25° | 582 | 282 | 3   | 1    | 1    | 268  |
| 35° | 616 | 105 | 0   | 1    | 1    | 381  |
| 45° | 339 | 12  | 0   | 1    | 2    | 274  |
| 55° | 12  | 0   | 1   | 2    | 2    | 38   |
| 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°    | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  | 27.0  |
| 2.5°  | 60.1  | 60.1  | 59.9  | 58.2  | 58.0  | 57.8  | 54.7  | 54.0  | 50.3  | 47.8  | 36.4  |
| 5°    | 121.2 | 118.5 | 118.3 | 115.2 | 110.0 | 103.1 | 98.7  | 91.5  | 84.6  | 77.3  | 44.9  |
| 7.5°  | 193.1 | 195.4 | 189.0 | 185.8 | 174.2 | 165.9 | 153.2 | 142.0 | 126.4 | 111.8 | 51.8  |
| 10°   | 274.8 | 270.7 | 264.4 | 258.0 | 245.5 | 230.7 | 211.8 | 191.9 | 169.4 | 147.6 | 55.7  |
| 12.5° | 338.6 | 333.4 | 329.5 | 320.8 | 308.5 | 289.4 | 266.9 | 240.3 | 210.4 | 179.0 | 55.5  |
| 15°   | 404.5 | 399.3 | 390.6 | 382.9 | 364.6 | 343.2 | 318.7 | 283.7 | 247.0 | 205.4 | 51.5  |
| 17.5° | 476.9 | 470.2 | 460.6 | 448.8 | 431.1 | 407.4 | 376.3 | 333.6 | 281.7 | 227.0 | 44.1  |
| 20°   | 538.8 | 534.7 | 525.1 | 511.2 | 493.9 | 470.8 | 434.9 | 387.5 | 324.3 | 250.5 | 35.1  |
| 22.5° | 579.3 | 575.6 | 569.0 | 556.9 | 543.8 | 519.1 | 486.4 | 434.3 | 360.0 | 271.9 | 26.6  |
| 25°   | 582.5 | 581.0 | 579.3 | 575.2 | 567.3 | 549.8 | 517.8 | 461.7 | 382.1 | 282.3 | 19.7  |
| 27.5° | 580.8 | 580.2 | 579.8 | 577.7 | 572.5 | 555.2 | 522.4 | 465.8 | 379.2 | 266.1 | 14.5  |
| 30°   | 605.5 | 603.7 | 602.8 | 595.8 | 582.2 | 555.4 | 512.6 | 444.0 | 337.0 | 217.8 | 10.4  |
| 32.5° | 618.0 | 617.6 | 616.6 | 609.9 | 590.6 | 555.8 | 496.0 | 391.4 | 267.3 | 157.2 | 7.1   |
| 35°   | 615.5 | 613.6 | 610.1 | 597.6 | 570.8 | 527.0 | 442.4 | 312.6 | 192.9 | 105.4 | 4.6   |
| 37.5° | 607.0 | 602.6 | 595.8 | 573.3 | 537.6 | 477.9 | 358.8 | 230.1 | 131.2 | 68.2  | 2.7   |
| 40°   | 575.8 | 569.8 | 559.2 | 531.7 | 484.8 | 393.9 | 265.4 | 155.5 | 86.1  | 39.3  | 0.8   |
| 42.5° | 495.1 | 487.3 | 479.6 | 448.8 | 395.2 | 293.7 | 174.6 | 96.2  | 49.1  | 21.6  | 0.2   |
| 45°   | 339.3 | 329.7 | 319.1 | 296.8 | 253.8 | 177.9 | 103.9 | 54.1  | 25.4  | 12.1  | 0.2   |
| 47.5° | 235.7 | 231.2 | 212.7 | 184.2 | 141.3 | 94.2  | 53.8  | 26.6  | 13.5  | 5.6   | 0.2   |
| 50°   | 160.1 | 155.1 | 133.5 | 106.0 | 75.2  | 45.1  | 24.7  | 13.3  | 6.0   | 1.3   | 0.2   |
| 52.5° | 84.0  | 77.9  | 64.2  | 48.9  | 30.4  | 18.9  | 10.8  | 5.8   | 1.7   | 0.2   | 0.2   |
| 55°   | 12.3  | 11.4  | 9.2   | 7.5   | 6.7   | 5.2   | 3.1   | 1.3   | 0.2   | 0.2   | 0.4   |
| 57.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.6   | 0.6   | 0.4   | 0.2   | 0.2   | 0.2   | 0.4   |
| 60°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 62.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 65°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 67.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.6   |
| 70°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.6   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.6   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.6   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.6   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.6   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.4   |
| 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°    | 27.0 | 27.0   | 27.0 | 27.0   | 27.0 |
| 2.5°  | 26.6 | 19.7   | 15.2 | 13.1   | 12.9 |
| 5°    | 24.1 | 14.1   | 9.2  | 7.1    | 6.7  |
| 7.5°  | 20.4 | 9.8    | 5.4  | 3.9    | 3.7  |
| 10°   | 16.8 | 6.7    | 3.3  | 2.7    | 2.5  |
| 12.5° | 13.3 | 4.4    | 2.3  | 2.1    | 1.9  |
| 15°   | 10.2 | 2.9    | 1.7  | 1.5    | 1.5  |
| 17.5° | 7.7  | 1.9    | 1.3  | 1.3    | 1.3  |
| 20°   | 5.8  | 1.3    | 1.0  | 1.2    | 1.2  |
| 22.5° | 4.0  | 1.0    | 0.8  | 1.0    | 1.0  |
| 25°   | 2.9  | 0.8    | 0.8  | 1.0    | 1.0  |
| 27.5° | 1.9  | 0.6    | 0.6  | 0.8    | 1.0  |
| 30°   | 1.2  | 0.4    | 0.6  | 0.8    | 1.0  |
| 32.5° | 0.6  | 0.4    | 0.6  | 1.0    | 1.0  |
| 35°   | 0.4  | 0.6    | 0.8  | 1.0    | 1.2  |
| 37.5° | 0.2  | 0.6    | 0.8  | 1.2    | 1.2  |
| 40°   | 0.2  | 0.6    | 0.8  | 1.2    | 1.3  |
| 42.5° | 0.4  | 0.8    | 1.0  | 1.3    | 1.5  |
| 45°   | 0.4  | 0.8    | 1.2  | 1.5    | 1.7  |
| 47.5° | 0.4  | 0.8    | 1.3  | 1.7    | 1.7  |
| 50°   | 0.6  | 1.0    | 1.3  | 1.7    | 1.9  |
| 52.5° | 0.6  | 1.0    | 1.3  | 1.9    | 2.1  |
| 55°   | 0.6  | 1.0    | 1.5  | 1.9    | 2.1  |
| 57.5° | 0.6  | 1.2    | 1.5  | 1.9    | 2.1  |
| 60°   | 0.6  | 1.0    | 1.5  | 1.9    | 2.1  |
| 62.5° | 0.8  | 1.0    | 1.3  | 1.9    | 1.9  |
| 65°   | 0.8  | 1.0    | 1.3  | 1.9    | 1.9  |
| 67.5° | 0.8  | 1.0    | 1.3  | 1.7    | 1.7  |
| 70°   | 0.8  | 1.0    | 1.2  | 1.5    | 1.5  |
| 72.5° | 0.8  | 1.0    | 1.2  | 1.3    | 1.5  |
| 75°   | 0.6  | 0.8    | 1.0  | 1.2    | 1.3  |
| 77.5° | 0.6  | 0.8    | 0.8  | 1.2    | 1.2  |
| 80°   | 0.6  | 0.6    | 0.6  | 0.8    | 0.8  |
| 82.5° | 0.6  | 0.6    | 0.4  | 0.6    | 0.6  |
| 85°   | 0.6  | 0.4    | 0.4  | 0.4    | 0.4  |
| 87.5° | 0.4  | 0.4    | 0.2  | 0.2    | 0.2  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)