

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: P1335662

Luminaire Tested: P3A02R409030DE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335662  
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: P3A02R409030DE010 E3A301WMH  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

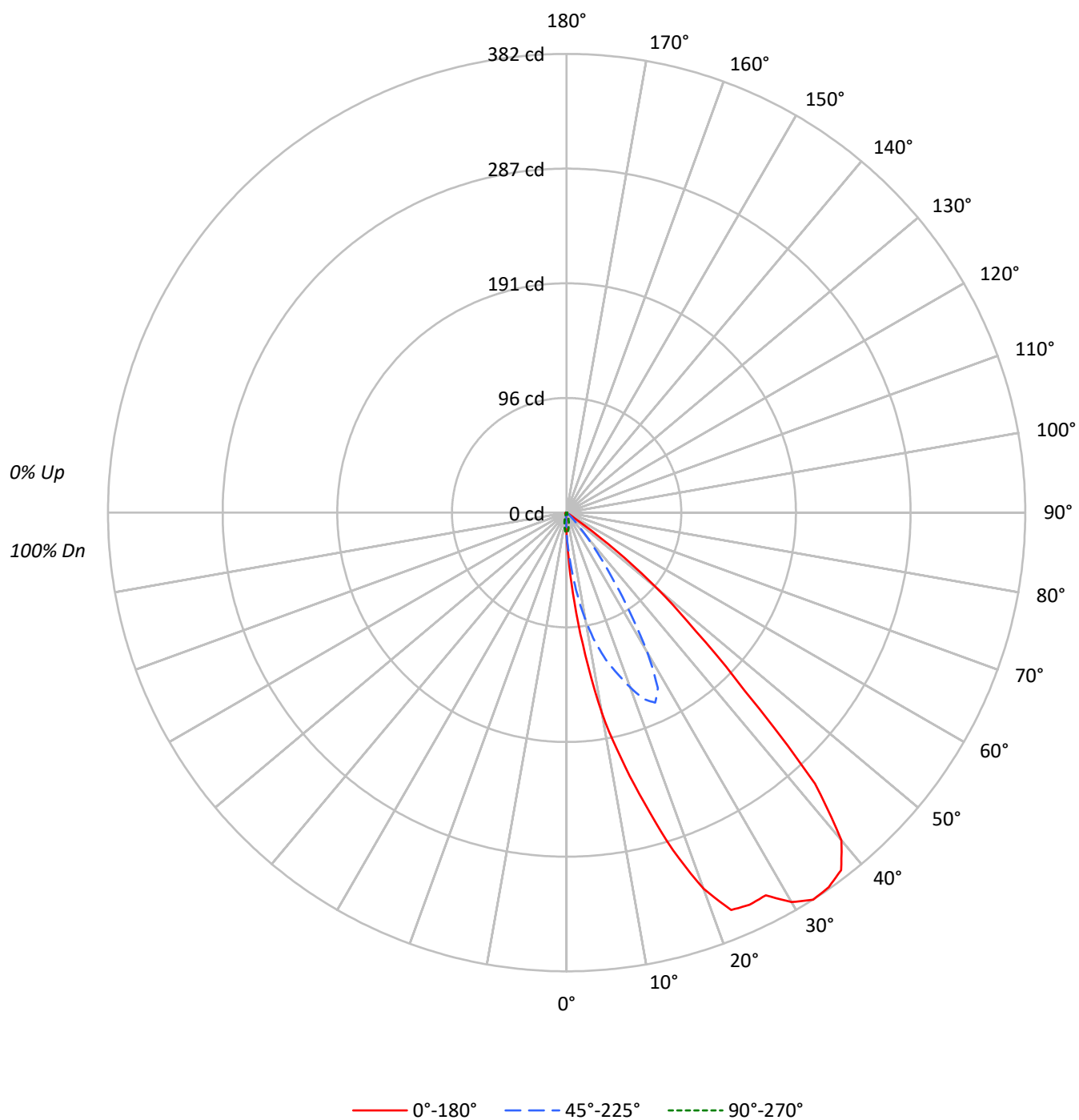
Lumens per Lamp: N/A  
Luminaire Lumens: 141.0 lumens  
Efficiency: N/A  
Efficacy: 39.2 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1335662

CATALOG NUMBER: P3A02R409030DE010 E3A301WMH

### Luminous Intensity Polar Plot



TEST NUMBER: P1335662

CATALOG NUMBER: P3A02R409030DE010 E3A301WMH

**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 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 93  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 74  |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 68  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 62  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 56  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 51  | 51  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 46  | 46  | 44  |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 42  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 38  | 38  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 3662   | 3662  | 3662 | 3662 | 3662 |
| 5°  | 16509  | 10522 | 3280 | 1255 | 924  |
| 10° | 37831  | 20329 | 2316 | 445  | 334  |
| 15° | 56777  | 28831 | 1430 | 250  | 227  |
| 20° | 77753  | 36146 | 840  | 140  | 163  |
| 25° | 87174  | 42244 | 436  | 121  | 145  |
| 30° | 94799  | 34107 | 177  | 101  | 152  |
| 35° | 101884 | 17454 | 54   | 134  | 187  |
| 40° | 101934 | 6956  | 29   | 143  | 229  |
| 45° | 65092  | 2326  | 62   | 217  | 341  |
| 50° | 33773  | 273   | 136  | 273  | 409  |
| 55° | 2906   | 38    | 153  | 382  | 497  |
| 60° | 88     | 44    | 175  | 439  | 570  |
| 65° | 104    | 52    | 259  | 415  | 623  |
| 70° | 64     | 64    | 321  | 449  | 641  |
| 75° | 85     | 85    | 339  | 508  | 678  |
| 80° | 126    | 126   | 505  | 505  | 631  |
| 85° | 0      | 252   | 1006 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 65092 cd/sqm

TEST NUMBER: P1335662

CATALOG NUMBER: P3A02R409030DE010 E3A301WMH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 2.3       |
| 10°-20°   | 19.1   | 13.5      |
| 20°-30°   | 41.8   | 29.6      |
| 30°-40°   | 47.6   | 33.8      |
| 40°-50°   | 25.1   | 17.8      |
| 50°-60°   | 3.0    | 2.1       |
| 60°-70°   | 0.5    | 0.4       |
| 70°-80°   | 0.4    | 0.3       |
| 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°    | 64.1   | 45.5      |
| 0°-40°    | 111.7  | 79.3      |
| 0°-60°    | 139.8  | 99.2      |
| 0°-90°    | 141.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 141.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 17  | 17  | 17  | 17   | 17   |      |
| 5°  | 75  | 48  | 15  | 6    | 4    | 10   |
| 15° | 250 | 127 | 6   | 1    | 1    | 74   |
| 25° | 360 | 175 | 2   | 0    | 1    | 166  |
| 35° | 381 | 65  | 0   | 0    | 1    | 236  |
| 45° | 210 | 8   | 0   | 1    | 1    | 169  |
| 55° | 8   | 0   | 0   | 1    | 1    | 24   |
| 65° | 0   | 0   | 0   | 1    | 1    | 0    |
| 75° | 0   | 0   | 0   | 1    | 1    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1335662

CATALOG NUMBER: P3A02R409030DE010 E3A301WMH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 67.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  | 16.7  |
| 2.5°  | 37.2  | 37.2  | 37.1  | 36.0  | 35.9  | 35.8  | 33.8  | 33.4  | 31.1  | 29.6  | 22.5  |
| 5°    | 75.0  | 73.3  | 73.2  | 71.3  | 68.0  | 63.8  | 61.0  | 56.6  | 52.3  | 47.8  | 27.8  |
| 7.5°  | 119.4 | 120.8 | 116.9 | 114.9 | 107.7 | 102.6 | 94.7  | 87.8  | 78.2  | 69.1  | 32.1  |
| 10°   | 169.9 | 167.4 | 163.5 | 159.6 | 151.8 | 142.6 | 131.0 | 118.7 | 104.8 | 91.3  | 34.4  |
| 12.5° | 209.4 | 206.2 | 203.8 | 198.4 | 190.8 | 179.0 | 165.1 | 148.6 | 130.1 | 110.7 | 34.3  |
| 15°   | 250.1 | 246.9 | 241.6 | 236.8 | 225.5 | 212.2 | 197.1 | 175.4 | 152.8 | 127.0 | 31.8  |
| 17.5° | 294.9 | 290.8 | 284.8 | 277.5 | 266.6 | 251.9 | 232.7 | 206.3 | 174.2 | 140.4 | 27.3  |
| 20°   | 333.2 | 330.7 | 324.7 | 316.2 | 305.4 | 291.1 | 269.0 | 239.7 | 200.6 | 154.9 | 21.7  |
| 22.5° | 358.2 | 356.0 | 351.9 | 344.4 | 336.3 | 321.0 | 300.8 | 268.6 | 222.6 | 168.1 | 16.4  |
| 25°   | 360.3 | 359.3 | 358.2 | 355.7 | 350.8 | 340.0 | 320.2 | 285.5 | 236.3 | 174.6 | 12.2  |
| 27.5° | 359.2 | 358.8 | 358.6 | 357.3 | 354.1 | 343.3 | 323.1 | 288.0 | 234.5 | 164.6 | 8.9   |
| 30°   | 374.4 | 373.4 | 372.8 | 368.5 | 360.0 | 343.4 | 317.0 | 274.6 | 208.4 | 134.7 | 6.4   |
| 32.5° | 382.2 | 381.9 | 381.3 | 377.2 | 365.3 | 343.7 | 306.7 | 242.0 | 165.3 | 97.2  | 4.4   |
| 35°   | 380.6 | 379.4 | 377.3 | 369.5 | 353.0 | 325.9 | 273.6 | 193.3 | 119.3 | 65.2  | 2.9   |
| 37.5° | 375.4 | 372.6 | 368.5 | 354.5 | 332.5 | 295.5 | 221.9 | 142.3 | 81.2  | 42.2  | 1.7   |
| 40°   | 356.1 | 352.4 | 345.8 | 328.8 | 299.8 | 243.6 | 164.1 | 96.2  | 53.3  | 24.3  | 0.5   |
| 42.5° | 306.1 | 301.4 | 296.6 | 277.5 | 244.4 | 181.6 | 108.0 | 59.5  | 30.4  | 13.3  | 0.1   |
| 45°   | 209.9 | 203.9 | 197.3 | 183.5 | 156.9 | 110.0 | 64.2  | 33.5  | 15.7  | 7.5   | 0.1   |
| 47.5° | 145.7 | 143.0 | 131.6 | 113.9 | 87.4  | 58.3  | 33.2  | 16.4  | 8.3   | 3.5   | 0.1   |
| 50°   | 99.0  | 95.9  | 82.6  | 65.5  | 46.5  | 27.9  | 15.3  | 8.2   | 3.7   | 0.8   | 0.1   |
| 52.5° | 52.0  | 48.1  | 39.7  | 30.3  | 18.8  | 11.7  | 6.7   | 3.6   | 1.1   | 0.1   | 0.1   |
| 55°   | 7.6   | 7.0   | 5.7   | 4.6   | 4.2   | 3.2   | 1.9   | 0.8   | 0.1   | 0.1   | 0.2   |
| 57.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.2   | 0.1   | 0.1   | 0.1   | 0.2   |
| 60°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 62.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 65°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   |
| 67.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.4   |
| 70°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.4   |
| 72.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.4   |
| 75°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.4   |
| 77.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.4   |
| 80°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 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   | 0.4   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 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   |

TEST NUMBER: P1335662

CATALOG NUMBER: P3A02R409030DE010 E3A301WMH

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 16.7 | 16.7   | 16.7 | 16.7   | 16.7 |
| 2.5°  | 16.4 | 12.2   | 9.4  | 8.1    | 8.0  |
| 5°    | 14.9 | 8.7    | 5.7  | 4.4    | 4.2  |
| 7.5°  | 12.6 | 6.1    | 3.3  | 2.4    | 2.3  |
| 10°   | 10.4 | 4.2    | 2.0  | 1.7    | 1.5  |
| 12.5° | 8.2  | 2.7    | 1.4  | 1.3    | 1.2  |
| 15°   | 6.3  | 1.8    | 1.1  | 1.0    | 1.0  |
| 17.5° | 4.8  | 1.2    | 0.8  | 0.8    | 0.8  |
| 20°   | 3.6  | 0.8    | 0.6  | 0.7    | 0.7  |
| 22.5° | 2.5  | 0.6    | 0.5  | 0.6    | 0.6  |
| 25°   | 1.8  | 0.5    | 0.5  | 0.6    | 0.6  |
| 27.5° | 1.2  | 0.4    | 0.4  | 0.5    | 0.6  |
| 30°   | 0.7  | 0.2    | 0.4  | 0.5    | 0.6  |
| 32.5° | 0.4  | 0.2    | 0.4  | 0.6    | 0.6  |
| 35°   | 0.2  | 0.4    | 0.5  | 0.6    | 0.7  |
| 37.5° | 0.1  | 0.4    | 0.5  | 0.7    | 0.7  |
| 40°   | 0.1  | 0.4    | 0.5  | 0.7    | 0.8  |
| 42.5° | 0.2  | 0.5    | 0.6  | 0.8    | 1.0  |
| 45°   | 0.2  | 0.5    | 0.7  | 1.0    | 1.1  |
| 47.5° | 0.2  | 0.5    | 0.8  | 1.1    | 1.1  |
| 50°   | 0.4  | 0.6    | 0.8  | 1.1    | 1.2  |
| 52.5° | 0.4  | 0.6    | 0.8  | 1.2    | 1.3  |
| 55°   | 0.4  | 0.6    | 1.0  | 1.2    | 1.3  |
| 57.5° | 0.4  | 0.7    | 1.0  | 1.2    | 1.3  |
| 60°   | 0.4  | 0.6    | 1.0  | 1.2    | 1.3  |
| 62.5° | 0.5  | 0.6    | 0.8  | 1.2    | 1.2  |
| 65°   | 0.5  | 0.6    | 0.8  | 1.2    | 1.2  |
| 67.5° | 0.5  | 0.6    | 0.8  | 1.1    | 1.1  |
| 70°   | 0.5  | 0.6    | 0.7  | 1.0    | 1.0  |
| 72.5° | 0.5  | 0.6    | 0.7  | 0.8    | 1.0  |
| 75°   | 0.4  | 0.5    | 0.6  | 0.7    | 0.8  |
| 77.5° | 0.4  | 0.5    | 0.5  | 0.7    | 0.7  |
| 80°   | 0.4  | 0.4    | 0.4  | 0.5    | 0.5  |
| 82.5° | 0.4  | 0.4    | 0.2  | 0.4    | 0.4  |
| 85°   | 0.4  | 0.2    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.2  | 0.2    | 0.1  | 0.1    | 0.1  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)