

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: P1335964

Luminaire Tested: P3A02R459027DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R459027DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

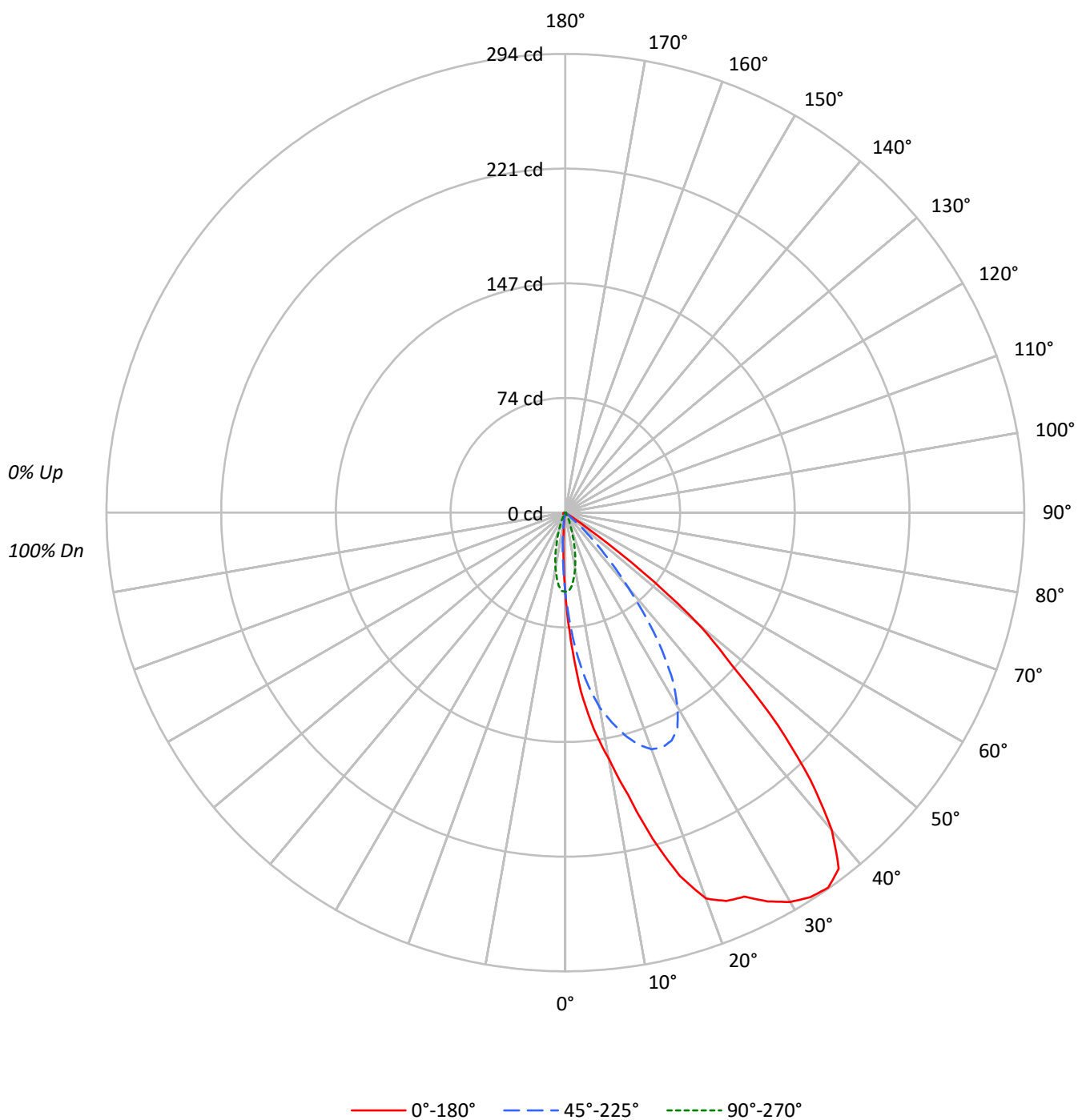
Lumens per Lamp: N/A  
Luminaire Lumens: 132.9 lumens  
Efficiency: N/A  
Efficacy: 36.9 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1335964

CATALOG NUMBER: P3A02R459027DE010 E3A301MW

### Luminous Intensity Polar Plot



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CATALOG NUMBER: P3A02R459027DE010 E3A301MW

**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  | 93  | 90  | 95  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 76  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 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   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 56  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 51  | 51  | 49  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 46  | 46  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 39  | 39  | 37  |

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

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 11096 | 11096 | 11096 | 11096 | 11096 |
| 5°  | 25292 | 20515 | 10390 | 4160  | 2840  |
| 10° | 35648 | 28189 | 8016  | 913   | 423   |
| 15° | 49104 | 33530 | 5131  | 295   | 250   |
| 20° | 61419 | 37663 | 2684  | 210   | 210   |
| 25° | 65713 | 39002 | 1234  | 169   | 194   |
| 30° | 72948 | 36411 | 557   | 177   | 203   |
| 35° | 78568 | 29018 | 187   | 187   | 241   |
| 40° | 76028 | 17977 | 86    | 229   | 286   |
| 45° | 59696 | 8497  | 93    | 279   | 341   |
| 50° | 38378 | 989   | 136   | 341   | 443   |
| 55° | 5811  | 76    | 153   | 421   | 535   |
| 60° | 88    | 88    | 175   | 482   | 570   |
| 65° | 104   | 104   | 208   | 519   | 675   |
| 70° | 128   | 128   | 256   | 577   | 769   |
| 75° | 85    | 169   | 339   | 678   | 847   |
| 80° | 126   | 253   | 379   | 758   | 1010  |
| 85° | 0     | 252   | 503   | 755   | 755   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59696 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.5    | 4.2       |
| 10°-20°   | 20.0   | 15.1      |
| 20°-30°   | 35.2   | 26.5      |
| 30°-40°   | 40.0   | 30.1      |
| 40°-50°   | 25.9   | 19.5      |
| 50°-60°   | 5.1    | 3.8       |
| 60°-70°   | 0.6    | 0.4       |
| 70°-80°   | 0.5    | 0.4       |
| 80°-90°   | 0.2    | 0.2       |
| 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°    | 60.7   | 45.7      |
| 0°-40°    | 100.7  | 75.7      |
| 0°-60°    | 131.6  | 99.0      |
| 0°-90°    | 132.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 132.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 51  | 51  | 51  | 51   | 51   |      |
| 5°  | 115 | 93  | 47  | 19   | 13   | 12   |
| 15° | 216 | 148 | 23  | 1    | 1    | 62   |
| 25° | 272 | 161 | 5   | 1    | 1    | 127  |
| 35° | 294 | 108 | 1   | 1    | 1    | 180  |
| 45° | 192 | 27  | 0   | 1    | 1    | 145  |
| 55° | 15  | 0   | 0   | 1    | 1    | 29   |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 50.6  | 50.6  | 50.6  | 50.6  | 50.6  | 50.6  | 50.6  | 50.6  | 50.6  | 50.6  | 50.6  |
| 2.5°  | 82.2  | 82.0  | 82.3  | 80.1  | 80.0  | 78.3  | 77.9  | 76.0  | 73.4  | 72.2  | 69.3  |
| 5°    | 114.9 | 113.8 | 113.8 | 111.1 | 110.2 | 108.3 | 105.1 | 101.1 | 97.8  | 93.2  | 88.3  |
| 7.5°  | 140.1 | 139.9 | 139.9 | 137.6 | 135.4 | 132.7 | 128.4 | 123.8 | 118.5 | 111.5 | 104.3 |
| 10°   | 160.1 | 160.4 | 159.4 | 157.3 | 154.1 | 151.2 | 146.0 | 140.5 | 133.9 | 126.6 | 117.1 |
| 12.5° | 185.2 | 182.7 | 182.0 | 177.2 | 173.1 | 167.5 | 161.4 | 155.1 | 146.9 | 137.7 | 127.0 |
| 15°   | 216.3 | 213.2 | 210.1 | 203.8 | 196.9 | 188.3 | 178.7 | 169.4 | 158.9 | 147.7 | 134.4 |
| 17.5° | 244.1 | 244.1 | 240.0 | 230.0 | 221.1 | 208.4 | 195.5 | 183.1 | 170.7 | 155.9 | 139.3 |
| 20°   | 263.2 | 262.2 | 259.1 | 251.7 | 241.6 | 227.2 | 210.4 | 193.0 | 178.1 | 161.4 | 142.0 |
| 22.5° | 269.4 | 269.2 | 269.3 | 264.9 | 256.8 | 241.9 | 221.3 | 200.8 | 182.1 | 162.7 | 140.7 |
| 25°   | 271.6 | 272.1 | 273.2 | 271.5 | 265.4 | 250.5 | 228.0 | 204.4 | 183.3 | 161.2 | 135.6 |
| 27.5° | 280.9 | 280.0 | 281.2 | 280.1 | 273.2 | 255.4 | 229.4 | 203.5 | 180.6 | 155.5 | 126.5 |
| 30°   | 288.1 | 287.9 | 290.0 | 289.0 | 280.0 | 258.5 | 228.1 | 200.2 | 174.1 | 143.8 | 112.1 |
| 32.5° | 292.2 | 292.3 | 292.9 | 288.8 | 275.4 | 251.7 | 222.1 | 193.4 | 161.7 | 128.6 | 93.4  |
| 35°   | 293.5 | 292.9 | 289.8 | 279.6 | 261.4 | 236.0 | 207.3 | 177.3 | 144.9 | 108.4 | 73.9  |
| 37.5° | 287.7 | 284.3 | 276.3 | 261.2 | 240.0 | 216.3 | 188.4 | 156.9 | 121.9 | 85.6  | 55.1  |
| 40°   | 265.6 | 261.1 | 250.9 | 235.5 | 215.8 | 192.9 | 164.3 | 131.4 | 94.5  | 62.8  | 38.7  |
| 42.5° | 232.5 | 230.1 | 219.6 | 206.1 | 189.4 | 166.3 | 136.8 | 103.4 | 70.0  | 43.4  | 24.7  |
| 45°   | 192.5 | 189.5 | 182.9 | 171.0 | 157.8 | 133.6 | 106.1 | 74.1  | 47.7  | 27.4  | 12.2  |
| 47.5° | 144.4 | 144.6 | 140.0 | 131.0 | 118.1 | 97.9  | 72.6  | 49.7  | 29.9  | 14.1  | 2.8   |
| 50°   | 112.5 | 110.9 | 104.4 | 95.2  | 80.2  | 65.2  | 46.9  | 31.4  | 15.8  | 2.9   | 0.2   |
| 52.5° | 62.3  | 63.3  | 59.8  | 56.8  | 49.1  | 38.9  | 27.7  | 15.9  | 3.3   | 0.3   | 0.2   |
| 55°   | 15.2  | 16.1  | 15.5  | 15.8  | 16.4  | 14.6  | 11.2  | 3.1   | 0.3   | 0.2   | 0.2   |
| 57.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.6   | 0.8   | 0.8   | 0.2   | 0.2   | 0.2   | 0.2   |
| 60°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 62.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 65°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 67.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 70°   | 0.2   | 0.2   | 0.2   | 0.1   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 72.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   | 0.2   |
| 75°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   | 0.2   |
| 77.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   |
| 80°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 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   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.1   |
| 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):**

|       | 55°   | 60°   | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0°    | 50.6  | 50.6  | 50.6  | 50.6 | 50.6   | 50.6 | 50.6   | 50.6 |
| 2.5°  | 67.8  | 65.7  | 61.8  | 50.3 | 40.4   | 32.6 | 27.9   | 27.5 |
| 5°    | 84.0  | 78.3  | 70.1  | 47.2 | 29.8   | 18.9 | 13.7   | 12.9 |
| 7.5°  | 96.8  | 88.8  | 76.1  | 42.0 | 20.4   | 9.7  | 5.3    | 4.4  |
| 10°   | 107.3 | 96.0  | 79.2  | 36.0 | 12.8   | 4.1  | 2.2    | 1.9  |
| 12.5° | 114.6 | 100.9 | 79.8  | 29.4 | 7.3    | 2.0  | 1.4    | 1.3  |
| 15°   | 119.2 | 102.4 | 77.1  | 22.6 | 4.1    | 1.3  | 1.2    | 1.1  |
| 17.5° | 121.1 | 101.1 | 72.0  | 16.4 | 2.2    | 1.0  | 1.0    | 1.0  |
| 20°   | 120.2 | 96.8  | 64.4  | 11.5 | 1.4    | 0.9  | 0.9    | 0.9  |
| 22.5° | 116.0 | 89.3  | 54.9  | 7.7  | 1.0    | 0.8  | 0.8    | 0.8  |
| 25°   | 107.7 | 79.2  | 44.9  | 5.1  | 0.7    | 0.7  | 0.8    | 0.8  |
| 27.5° | 95.2  | 66.7  | 34.4  | 3.4  | 0.6    | 0.7  | 0.8    | 0.8  |
| 30°   | 79.5  | 52.8  | 24.7  | 2.2  | 0.6    | 0.7  | 0.7    | 0.8  |
| 32.5° | 63.2  | 38.5  | 16.2  | 1.3  | 0.4    | 0.7  | 0.8    | 0.9  |
| 35°   | 45.8  | 26.3  | 10.3  | 0.7  | 0.6    | 0.7  | 0.8    | 0.9  |
| 37.5° | 32.1  | 17.1  | 6.0   | 0.4  | 0.6    | 0.7  | 0.9    | 0.9  |
| 40°   | 20.9  | 9.6   | 2.2   | 0.3  | 0.6    | 0.8  | 0.9    | 1.0  |
| 42.5° | 10.9  | 3.3   | 0.4   | 0.3  | 0.6    | 0.8  | 1.0    | 1.1  |
| 45°   | 2.8   | 0.4   | 0.1   | 0.3  | 0.7    | 0.9  | 1.1    | 1.1  |
| 47.5° | 0.3   | 0.1   | 0.1   | 0.4  | 0.7    | 1.0  | 1.1    | 1.2  |
| 50°   | 0.1   | 0.2   | 0.2   | 0.4  | 0.7    | 1.0  | 1.2    | 1.3  |
| 52.5° | 0.2   | 0.2   | 0.2   | 0.4  | 0.8    | 1.0  | 1.3    | 1.4  |
| 55°   | 0.2   | 0.2   | 0.2   | 0.4  | 0.8    | 1.1  | 1.3    | 1.4  |
| 57.5° | 0.2   | 0.2   | 0.2   | 0.4  | 0.8    | 1.1  | 1.3    | 1.3  |
| 60°   | 0.2   | 0.2   | 0.2   | 0.4  | 0.8    | 1.1  | 1.3    | 1.3  |
| 62.5° | 0.2   | 0.2   | 0.3   | 0.4  | 0.8    | 1.0  | 1.3    | 1.3  |
| 65°   | 0.2   | 0.3   | 0.3   | 0.4  | 0.8    | 1.0  | 1.2    | 1.3  |
| 67.5° | 0.2   | 0.2   | 0.3   | 0.4  | 0.8    | 1.0  | 1.2    | 1.3  |
| 70°   | 0.2   | 0.2   | 0.3   | 0.4  | 0.7    | 0.9  | 1.1    | 1.2  |
| 72.5° | 0.2   | 0.2   | 0.3   | 0.4  | 0.7    | 0.9  | 1.0    | 1.1  |
| 75°   | 0.2   | 0.2   | 0.3   | 0.4  | 0.6    | 0.8  | 1.0    | 1.0  |
| 77.5° | 0.2   | 0.2   | 0.3   | 0.3  | 0.6    | 0.7  | 0.9    | 0.9  |
| 80°   | 0.2   | 0.2   | 0.3   | 0.3  | 0.4    | 0.6  | 0.7    | 0.8  |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.3  | 0.3    | 0.4  | 0.6    | 0.6  |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.3  | 0.3    | 0.3  |
| 87.5° | 0.1   | 0.2   | 0.2   | 0.2  | 0.2    | 0.2  | 0.2    | 0.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)