

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: P1335996

Luminaire Tested: P3A02R459030DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335996  
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: P3A02R459030DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

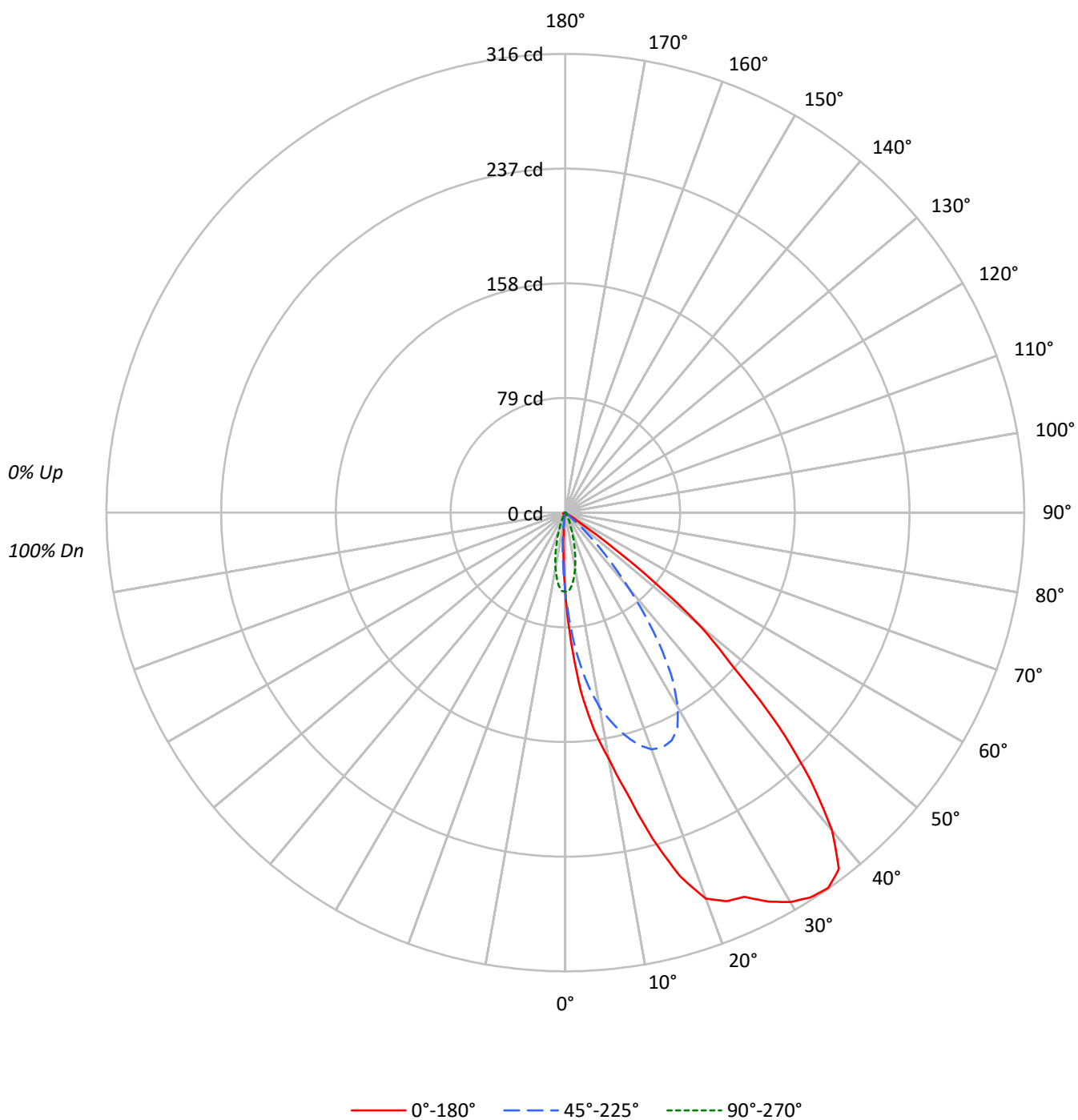
Lumens per Lamp: N/A  
Luminaire Lumens: 143.0 lumens  
Efficiency: N/A  
Efficacy: 39.7 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1335996

CATALOG NUMBER: P3A02R459030DE010 E3A301MW

### 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  | 93  | 90  | 95  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 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   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 57  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 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°  | 11929 | 11929 | 11929 | 11929 | 11929 |
| 5°  | 27185 | 22056 | 11160 | 4468  | 3060  |
| 10° | 38320 | 30304 | 8617  | 980   | 445   |
| 15° | 52804 | 36050 | 5516  | 318   | 272   |
| 20° | 66039 | 40487 | 2870  | 233   | 233   |
| 25° | 70649 | 41930 | 1331  | 169   | 194   |
| 30° | 78417 | 39145 | 608   | 177   | 203   |
| 35° | 84484 | 31213 | 187   | 187   | 268   |
| 40° | 81753 | 19351 | 115   | 229   | 315   |
| 45° | 64193 | 9117  | 124   | 310   | 372   |
| 50° | 41244 | 1058  | 171   | 375   | 478   |
| 55° | 6270  | 76    | 191   | 459   | 612   |
| 60° | 88    | 88    | 219   | 526   | 614   |
| 65° | 104   | 104   | 259   | 571   | 726   |
| 70° | 128   | 128   | 321   | 641   | 833   |
| 75° | 85    | 169   | 424   | 678   | 932   |
| 80° | 126   | 253   | 505   | 758   | 1010  |
| 85° | 0     | 252   | 503   | 1006  | 1006  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64193 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.0    | 4.2       |
| 10°-20°   | 21.5   | 15.1      |
| 20°-30°   | 37.8   | 26.5      |
| 30°-40°   | 43.0   | 30.0      |
| 40°-50°   | 27.8   | 19.5      |
| 50°-60°   | 5.4    | 3.8       |
| 60°-70°   | 0.6    | 0.5       |
| 70°-80°   | 0.6    | 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°    | 65.3   | 45.7      |
| 0°-40°    | 108.3  | 75.7      |
| 0°-60°    | 141.5  | 99.0      |
| 0°-90°    | 143.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 143.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 54  | 54  | 54  | 54   | 54   |      |
| 5°  | 124 | 100 | 51  | 20   | 14   | 13   |
| 15° | 233 | 159 | 24  | 1    | 1    | 67   |
| 25° | 292 | 173 | 6   | 1    | 1    | 137  |
| 35° | 316 | 117 | 1   | 1    | 1    | 194  |
| 45° | 207 | 29  | 0   | 1    | 1    | 156  |
| 55° | 16  | 0   | 0   | 1    | 2    | 31   |
| 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°    | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  |
| 2.5°  | 88.4  | 88.1  | 88.5  | 86.1  | 86.0  | 84.2  | 83.7  | 81.7  | 78.9  | 77.6  | 74.5  |
| 5°    | 123.5 | 122.3 | 122.3 | 119.5 | 118.5 | 116.5 | 113.0 | 108.7 | 105.1 | 100.2 | 95.0  |
| 7.5°  | 150.7 | 150.4 | 150.4 | 147.9 | 145.5 | 142.7 | 138.0 | 133.1 | 127.4 | 119.8 | 112.2 |
| 10°   | 172.1 | 172.5 | 171.4 | 169.1 | 165.6 | 162.5 | 157.0 | 151.0 | 144.0 | 136.1 | 125.9 |
| 12.5° | 199.1 | 196.5 | 195.7 | 190.5 | 186.1 | 180.1 | 173.5 | 166.7 | 158.0 | 148.1 | 136.6 |
| 15°   | 232.6 | 229.3 | 225.9 | 219.1 | 211.7 | 202.5 | 192.2 | 182.1 | 170.9 | 158.8 | 144.5 |
| 17.5° | 262.5 | 262.5 | 258.1 | 247.3 | 237.7 | 224.1 | 210.2 | 196.8 | 183.6 | 167.7 | 149.7 |
| 20°   | 283.0 | 281.9 | 278.5 | 270.6 | 259.8 | 244.3 | 226.3 | 207.5 | 191.5 | 173.5 | 152.7 |
| 22.5° | 289.7 | 289.4 | 289.5 | 284.9 | 276.1 | 260.1 | 238.0 | 215.9 | 195.8 | 175.0 | 151.3 |
| 25°   | 292.0 | 292.5 | 293.7 | 291.9 | 285.3 | 269.3 | 245.2 | 219.8 | 197.1 | 173.3 | 145.8 |
| 27.5° | 302.0 | 301.0 | 302.3 | 301.1 | 293.7 | 274.6 | 246.6 | 218.9 | 194.2 | 167.2 | 136.0 |
| 30°   | 309.7 | 309.5 | 311.8 | 310.7 | 301.0 | 277.9 | 245.3 | 215.3 | 187.2 | 154.6 | 120.5 |
| 32.5° | 314.2 | 314.3 | 314.9 | 310.5 | 296.1 | 270.6 | 238.8 | 208.0 | 173.9 | 138.2 | 100.5 |
| 35°   | 315.6 | 314.9 | 311.5 | 300.7 | 281.0 | 253.8 | 222.9 | 190.6 | 155.8 | 116.6 | 79.4  |
| 37.5° | 309.4 | 305.7 | 297.1 | 280.8 | 258.1 | 232.6 | 202.6 | 168.7 | 131.1 | 92.1  | 59.2  |
| 40°   | 285.6 | 280.7 | 269.8 | 253.2 | 232.0 | 207.4 | 176.6 | 141.2 | 101.7 | 67.6  | 41.6  |
| 42.5° | 249.9 | 247.4 | 236.1 | 221.6 | 203.7 | 178.8 | 147.1 | 111.2 | 75.2  | 46.6  | 26.5  |
| 45°   | 207.0 | 203.8 | 196.6 | 183.8 | 169.7 | 143.6 | 114.1 | 79.6  | 51.3  | 29.4  | 13.2  |
| 47.5° | 155.2 | 155.5 | 150.6 | 140.9 | 127.0 | 105.2 | 78.1  | 53.5  | 32.2  | 15.2  | 3.0   |
| 50°   | 120.9 | 119.2 | 112.3 | 102.4 | 86.2  | 70.1  | 50.5  | 33.7  | 17.0  | 3.1   | 0.2   |
| 52.5° | 67.0  | 68.0  | 64.3  | 61.1  | 52.7  | 41.9  | 29.8  | 17.1  | 3.6   | 0.4   | 0.2   |
| 55°   | 16.4  | 17.3  | 16.6  | 17.0  | 17.6  | 15.7  | 12.1  | 3.3   | 0.4   | 0.2   | 0.2   |
| 57.5° | 0.4   | 0.4   | 0.4   | 0.4   | 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°    | 54.4  | 54.4  | 54.4  | 54.4 | 54.4   | 54.4 | 54.4   | 54.4 |
| 2.5°  | 73.0  | 70.7  | 66.5  | 54.1 | 43.4   | 35.0 | 30.0   | 29.5 |
| 5°    | 90.3  | 84.2  | 75.3  | 50.7 | 32.1   | 20.3 | 14.7   | 13.9 |
| 7.5°  | 104.0 | 95.4  | 81.8  | 45.2 | 21.9   | 10.4 | 5.7    | 4.8  |
| 10°   | 115.4 | 103.2 | 85.1  | 38.7 | 13.8   | 4.4  | 2.4    | 2.0  |
| 12.5° | 123.2 | 108.5 | 85.7  | 31.6 | 7.9    | 2.2  | 1.6    | 1.4  |
| 15°   | 128.2 | 110.1 | 82.9  | 24.3 | 4.4    | 1.4  | 1.3    | 1.2  |
| 17.5° | 130.2 | 108.7 | 77.4  | 17.6 | 2.4    | 1.1  | 1.1    | 1.1  |
| 20°   | 129.3 | 104.0 | 69.2  | 12.3 | 1.6    | 1.0  | 1.0    | 1.0  |
| 22.5° | 124.7 | 96.0  | 59.1  | 8.3  | 1.1    | 0.8  | 0.8    | 0.8  |
| 25°   | 115.8 | 85.1  | 48.3  | 5.5  | 0.7    | 0.7  | 0.8    | 0.8  |
| 27.5° | 102.4 | 71.8  | 37.0  | 3.7  | 0.6    | 0.7  | 0.8    | 0.8  |
| 30°   | 85.5  | 56.8  | 26.5  | 2.4  | 0.6    | 0.7  | 0.7    | 0.8  |
| 32.5° | 67.9  | 41.4  | 17.5  | 1.4  | 0.5    | 0.7  | 0.8    | 1.0  |
| 35°   | 49.3  | 28.2  | 11.1  | 0.7  | 0.6    | 0.7  | 0.8    | 1.0  |
| 37.5° | 34.6  | 18.4  | 6.5   | 0.5  | 0.6    | 0.7  | 1.0    | 1.0  |
| 40°   | 22.5  | 10.3  | 2.4   | 0.4  | 0.6    | 0.8  | 1.0    | 1.1  |
| 42.5° | 11.7  | 3.6   | 0.5   | 0.4  | 0.6    | 0.8  | 1.1    | 1.2  |
| 45°   | 3.0   | 0.5   | 0.1   | 0.4  | 0.7    | 1.0  | 1.2    | 1.2  |
| 47.5° | 0.4   | 0.1   | 0.1   | 0.5  | 0.7    | 1.1  | 1.2    | 1.3  |
| 50°   | 0.1   | 0.2   | 0.2   | 0.5  | 0.7    | 1.1  | 1.3    | 1.4  |
| 52.5° | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.1  | 1.4    | 1.6  |
| 55°   | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.2  | 1.4    | 1.6  |
| 57.5° | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.2  | 1.4    | 1.4  |
| 60°   | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.2  | 1.4    | 1.4  |
| 62.5° | 0.2   | 0.2   | 0.4   | 0.5  | 0.8    | 1.1  | 1.4    | 1.4  |
| 65°   | 0.2   | 0.4   | 0.4   | 0.5  | 0.8    | 1.1  | 1.3    | 1.4  |
| 67.5° | 0.2   | 0.2   | 0.4   | 0.5  | 0.8    | 1.1  | 1.3    | 1.4  |
| 70°   | 0.2   | 0.2   | 0.4   | 0.5  | 0.7    | 1.0  | 1.2    | 1.3  |
| 72.5° | 0.2   | 0.2   | 0.4   | 0.5  | 0.7    | 1.0  | 1.1    | 1.2  |
| 75°   | 0.2   | 0.2   | 0.4   | 0.5  | 0.6    | 0.8  | 1.1    | 1.1  |
| 77.5° | 0.2   | 0.2   | 0.4   | 0.4  | 0.6    | 0.7  | 1.0    | 1.0  |
| 80°   | 0.2   | 0.2   | 0.4   | 0.4  | 0.5    | 0.6  | 0.7    | 0.8  |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.4  | 0.4    | 0.5  | 0.6    | 0.6  |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2  | 0.2    | 0.4  | 0.4    | 0.4  |
| 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)