

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: P1336009

Luminaire Tested: P3A02R459035DE010 E3A301GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336009  
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: P3A02R459035DE010 E3A301GPH  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , E3A301GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

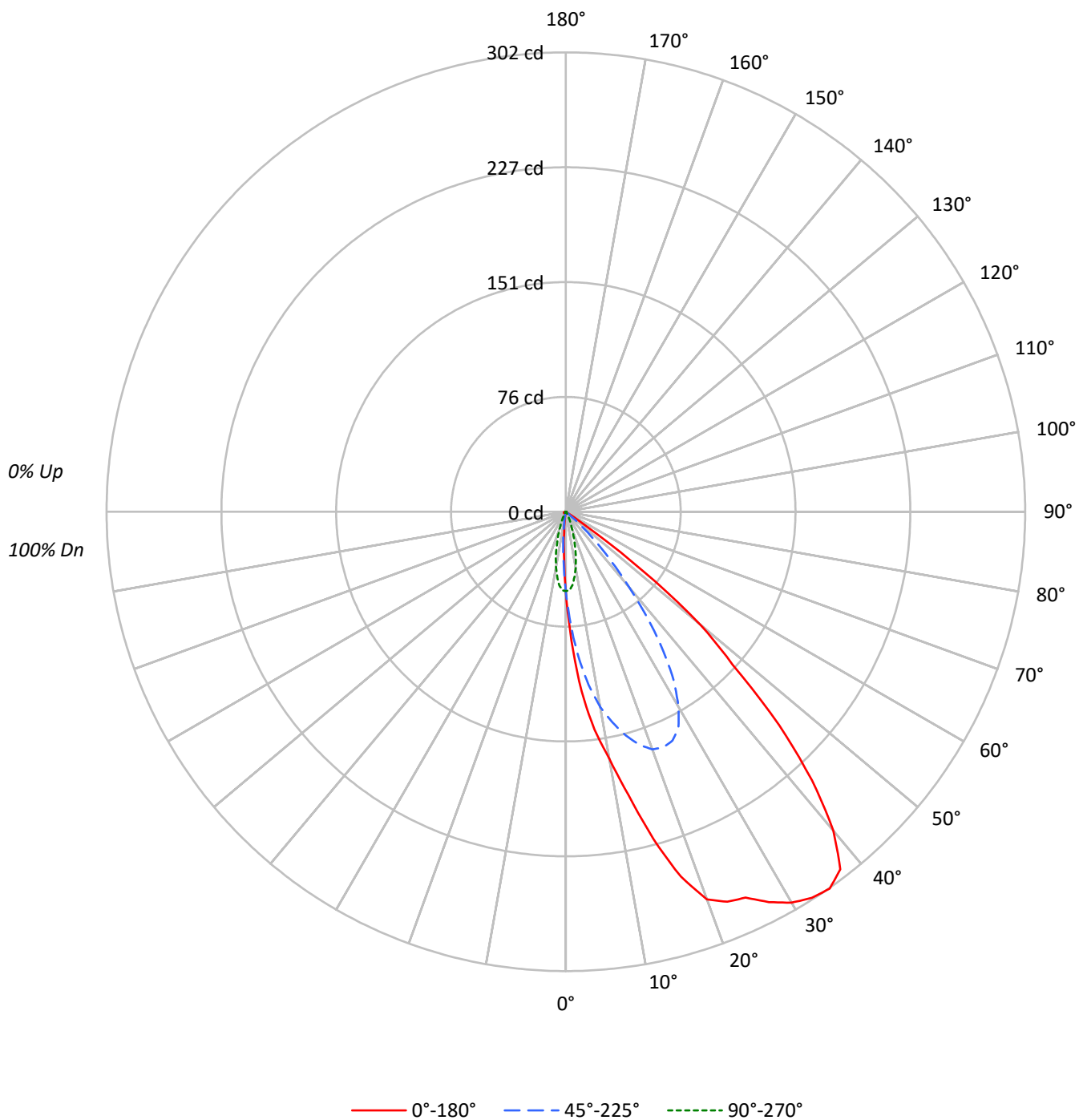
Lumens per Lamp: N/A  
Luminaire Lumens: 137.0 lumens  
Efficiency: N/A  
Efficacy: 38.0 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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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  |     |    | 0  |
| 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°  | 11425 | 11425 | 11425 | 11425 | 11425 |
| 5°  | 26062 | 21131 | 10698 | 4292  | 2928  |
| 10° | 36717 | 29035 | 8261  | 935   | 423   |
| 15° | 50579 | 34552 | 5289  | 318   | 250   |
| 20° | 63262 | 38783 | 2754  | 210   | 210   |
| 25° | 67697 | 40164 | 1282  | 169   | 194   |
| 30° | 75125 | 37499 | 582   | 177   | 203   |
| 35° | 80950 | 29901 | 187   | 187   | 241   |
| 40° | 78318 | 18520 | 86    | 229   | 286   |
| 45° | 61495 | 8745  | 93    | 279   | 341   |
| 50° | 39504 | 1023  | 171   | 341   | 478   |
| 55° | 6002  | 76    | 191   | 421   | 573   |
| 60° | 88    | 88    | 219   | 482   | 614   |
| 65° | 104   | 104   | 259   | 519   | 726   |
| 70° | 128   | 128   | 321   | 577   | 833   |
| 75° | 85    | 169   | 424   | 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: 61495 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.7    | 4.2       |
| 10°-20°   | 20.6   | 15.1      |
| 20°-30°   | 36.2   | 26.5      |
| 30°-40°   | 41.2   | 30.0      |
| 40°-50°   | 26.6   | 19.5      |
| 50°-60°   | 5.2    | 3.8       |
| 60°-70°   | 0.6    | 0.5       |
| 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°    | 62.6   | 45.7      |
| 0°-40°    | 103.7  | 75.7      |
| 0°-60°    | 135.6  | 99.0      |
| 0°-90°    | 137.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 137.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 52  | 52  | 52  | 52   | 52   |      |
| 5°  | 118 | 96  | 49  | 20   | 13   | 13   |
| 15° | 223 | 152 | 23  | 1    | 1    | 64   |
| 25° | 280 | 166 | 5   | 1    | 1    | 131  |
| 35° | 302 | 112 | 1   | 1    | 1    | 186  |
| 45° | 198 | 28  | 0   | 1    | 1    | 149  |
| 55° | 16  | 0   | 0   | 1    | 2    | 30   |
| 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°    | 52.1  | 52.1  | 52.1  | 52.1  | 52.1  | 52.1  | 52.1  | 52.1  | 52.1  | 52.1  | 52.1  |
| 2.5°  | 84.7  | 84.4  | 84.8  | 82.5  | 82.4  | 80.7  | 80.2  | 78.3  | 75.6  | 74.4  | 71.4  |
| 5°    | 118.4 | 117.2 | 117.2 | 114.5 | 113.5 | 111.6 | 108.3 | 104.1 | 100.7 | 96.0  | 91.0  |
| 7.5°  | 144.4 | 144.1 | 144.1 | 141.7 | 139.4 | 136.7 | 132.2 | 127.5 | 122.0 | 114.8 | 107.5 |
| 10°   | 164.9 | 165.2 | 164.2 | 162.0 | 158.7 | 155.7 | 150.4 | 144.7 | 137.9 | 130.4 | 120.6 |
| 12.5° | 190.8 | 188.2 | 187.4 | 182.5 | 178.3 | 172.5 | 166.2 | 159.7 | 151.4 | 141.8 | 130.8 |
| 15°   | 222.8 | 219.6 | 216.4 | 209.9 | 202.8 | 194.0 | 184.1 | 174.5 | 163.7 | 152.2 | 138.4 |
| 17.5° | 251.5 | 251.5 | 247.3 | 236.9 | 227.8 | 214.7 | 201.4 | 188.6 | 175.9 | 160.6 | 143.4 |
| 20°   | 271.1 | 270.1 | 266.8 | 259.3 | 248.9 | 234.1 | 216.8 | 198.8 | 183.4 | 166.2 | 146.3 |
| 22.5° | 277.5 | 277.3 | 277.4 | 272.9 | 264.6 | 249.2 | 228.0 | 206.8 | 187.6 | 167.6 | 144.9 |
| 25°   | 279.8 | 280.2 | 281.4 | 279.7 | 273.4 | 258.0 | 234.9 | 210.6 | 188.8 | 166.0 | 139.7 |
| 27.5° | 289.3 | 288.4 | 289.6 | 288.5 | 281.4 | 263.1 | 236.3 | 209.7 | 186.1 | 160.2 | 130.3 |
| 30°   | 296.7 | 296.5 | 298.7 | 297.7 | 288.4 | 266.3 | 235.0 | 206.2 | 179.3 | 148.1 | 115.5 |
| 32.5° | 301.0 | 301.1 | 301.7 | 297.4 | 283.7 | 259.3 | 228.8 | 199.2 | 166.6 | 132.4 | 96.2  |
| 35°   | 302.4 | 301.7 | 298.5 | 288.0 | 269.2 | 243.1 | 213.6 | 182.6 | 149.3 | 111.7 | 76.1  |
| 37.5° | 296.4 | 292.9 | 284.6 | 269.0 | 247.3 | 222.8 | 194.1 | 161.7 | 125.6 | 88.2  | 56.7  |
| 40°   | 273.6 | 268.9 | 258.5 | 242.6 | 222.3 | 198.7 | 169.2 | 135.3 | 97.4  | 64.7  | 39.9  |
| 42.5° | 239.5 | 237.1 | 226.2 | 212.3 | 195.1 | 171.3 | 140.9 | 106.6 | 72.1  | 44.7  | 25.4  |
| 45°   | 198.3 | 195.2 | 188.4 | 176.1 | 162.6 | 137.6 | 109.3 | 76.3  | 49.2  | 28.2  | 12.6  |
| 47.5° | 148.7 | 148.9 | 144.2 | 135.0 | 121.7 | 100.8 | 74.8  | 51.2  | 30.8  | 14.6  | 2.9   |
| 50°   | 115.8 | 114.2 | 107.6 | 98.1  | 82.6  | 67.1  | 48.4  | 32.3  | 16.3  | 3.0   | 0.2   |
| 52.5° | 64.2  | 65.2  | 61.6  | 58.5  | 50.5  | 40.1  | 28.5  | 16.4  | 3.4   | 0.3   | 0.2   |
| 55°   | 15.7  | 16.6  | 15.9  | 16.3  | 16.8  | 15.0  | 11.6  | 3.2   | 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°    | 52.1  | 52.1  | 52.1  | 52.1 | 52.1   | 52.1 | 52.1   | 52.1 |
| 2.5°  | 69.9  | 67.7  | 63.7  | 51.8 | 41.6   | 33.6 | 28.8   | 28.3 |
| 5°    | 86.5  | 80.7  | 72.2  | 48.6 | 30.7   | 19.5 | 14.1   | 13.3 |
| 7.5°  | 99.7  | 91.4  | 78.4  | 43.3 | 21.0   | 10.0 | 5.5    | 4.6  |
| 10°   | 110.6 | 98.9  | 81.6  | 37.1 | 13.2   | 4.2  | 2.3    | 1.9  |
| 12.5° | 118.0 | 103.9 | 82.1  | 30.2 | 7.6    | 2.1  | 1.5    | 1.4  |
| 15°   | 122.8 | 105.5 | 79.4  | 23.3 | 4.2    | 1.4  | 1.3    | 1.1  |
| 17.5° | 124.8 | 104.1 | 74.1  | 16.8 | 2.3    | 1.0  | 1.0    | 1.0  |
| 20°   | 123.9 | 99.7  | 66.3  | 11.8 | 1.5    | 0.9  | 0.9    | 0.9  |
| 22.5° | 119.5 | 92.0  | 56.6  | 7.9  | 1.0    | 0.8  | 0.8    | 0.8  |
| 25°   | 110.9 | 81.6  | 46.3  | 5.3  | 0.7    | 0.7  | 0.8    | 0.8  |
| 27.5° | 98.1  | 68.7  | 35.4  | 3.6  | 0.6    | 0.7  | 0.8    | 0.8  |
| 30°   | 81.9  | 54.4  | 25.4  | 2.3  | 0.6    | 0.7  | 0.7    | 0.8  |
| 32.5° | 65.1  | 39.6  | 16.7  | 1.4  | 0.5    | 0.7  | 0.8    | 0.9  |
| 35°   | 47.2  | 27.0  | 10.7  | 0.7  | 0.6    | 0.7  | 0.8    | 0.9  |
| 37.5° | 33.1  | 17.6  | 6.2   | 0.5  | 0.6    | 0.7  | 0.9    | 0.9  |
| 40°   | 21.5  | 9.9   | 2.3   | 0.3  | 0.6    | 0.8  | 0.9    | 1.0  |
| 42.5° | 11.2  | 3.4   | 0.5   | 0.3  | 0.6    | 0.8  | 1.0    | 1.1  |
| 45°   | 2.9   | 0.5   | 0.1   | 0.3  | 0.7    | 0.9  | 1.1    | 1.1  |
| 47.5° | 0.3   | 0.1   | 0.1   | 0.5  | 0.7    | 1.0  | 1.1    | 1.3  |
| 50°   | 0.1   | 0.2   | 0.2   | 0.5  | 0.7    | 1.0  | 1.3    | 1.4  |
| 52.5° | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.0  | 1.4    | 1.5  |
| 55°   | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.1  | 1.4    | 1.5  |
| 57.5° | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.1  | 1.4    | 1.4  |
| 60°   | 0.2   | 0.2   | 0.2   | 0.5  | 0.8    | 1.1  | 1.4    | 1.4  |
| 62.5° | 0.2   | 0.2   | 0.3   | 0.5  | 0.8    | 1.0  | 1.4    | 1.4  |
| 65°   | 0.2   | 0.3   | 0.3   | 0.5  | 0.8    | 1.0  | 1.3    | 1.4  |
| 67.5° | 0.2   | 0.2   | 0.3   | 0.5  | 0.8    | 1.0  | 1.3    | 1.4  |
| 70°   | 0.2   | 0.2   | 0.3   | 0.5  | 0.7    | 0.9  | 1.1    | 1.3  |
| 72.5° | 0.2   | 0.2   | 0.3   | 0.5  | 0.7    | 0.9  | 1.0    | 1.1  |
| 75°   | 0.2   | 0.2   | 0.3   | 0.5  | 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  | 0.5    | 0.6  | 0.7    | 0.8  |
| 82.5° | 0.2   | 0.2   | 0.2   | 0.3  | 0.3    | 0.5  | 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)