

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: P1336169

Luminaire Tested: P3A02R459840DE010 E3A301GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336169  
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: P3A02R459840DE010 E3A301GPH  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

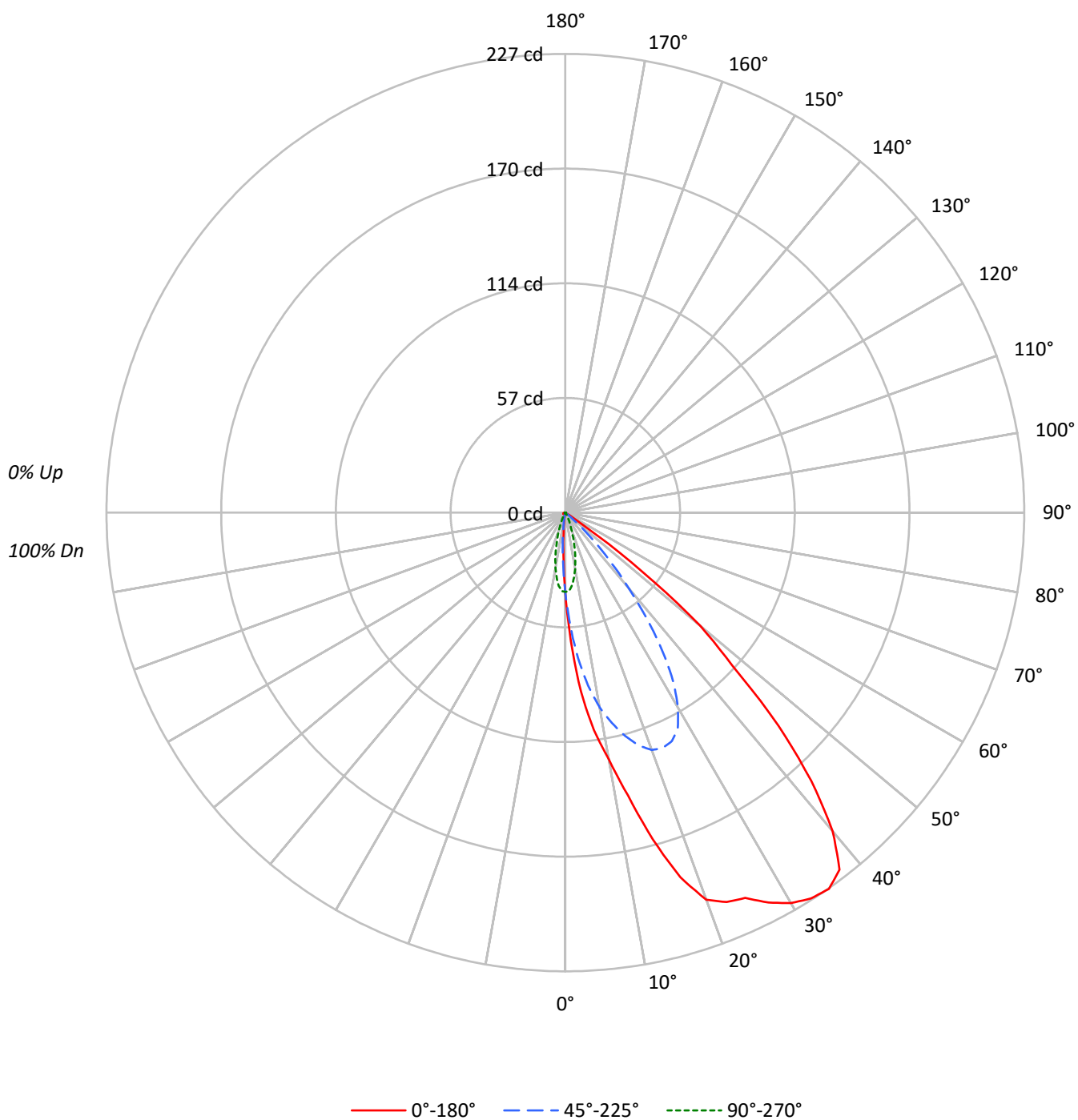
Lumens per Lamp: N/A  
Luminaire Lumens: 103.0 lumens  
Efficiency: N/A  
Efficacy: 28.6 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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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CATALOG NUMBER: P3A02R459840DE010 E3A301GPH

### 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 | 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  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 84  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 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  | 75  | 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  | 42  | 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°  | 8596  | 8596  | 8596 | 8596 | 8596 |
| 5°  | 19591 | 15893 | 8034 | 3214 | 2201 |
| 10° | 27610 | 21821 | 6212 | 713  | 334  |
| 15° | 38025 | 25971 | 3973 | 227  | 204  |
| 20° | 47557 | 29169 | 2077 | 163  | 163  |
| 25° | 50906 | 30195 | 968  | 121  | 145  |
| 30° | 56490 | 28207 | 430  | 127  | 152  |
| 35° | 60846 | 22486 | 134  | 134  | 187  |
| 40° | 58882 | 13940 | 86   | 172  | 229  |
| 45° | 46237 | 6574  | 93   | 217  | 279  |
| 50° | 29713 | 751   | 102  | 273  | 341  |
| 55° | 4511  | 76    | 115  | 344  | 421  |
| 60° | 88    | 88    | 132  | 395  | 439  |
| 65° | 104   | 104   | 156  | 415  | 519  |
| 70° | 128   | 128   | 192  | 449  | 577  |
| 75° | 85    | 169   | 254  | 508  | 678  |
| 80° | 126   | 253   | 379  | 505  | 758  |
| 85° | 0     | 252   | 503  | 755  | 755  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46237 cd/sqm

TEST NUMBER: P1336169

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.3    | 4.2       |
| 10°-20°   | 15.5   | 15.1      |
| 20°-30°   | 27.2   | 26.4      |
| 30°-40°   | 30.9   | 30.0      |
| 40°-50°   | 20.0   | 19.4      |
| 50°-60°   | 3.9    | 3.8       |
| 60°-70°   | 0.5    | 0.5       |
| 70°-80°   | 0.4    | 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°    | 47.0   | 45.7      |
| 0°-40°    | 78.0   | 75.7      |
| 0°-60°    | 101.9  | 98.9      |
| 0°-90°    | 103.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 103.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 39  | 39  | 39  | 39   | 39   |      |
| 5°  | 89  | 72  | 36  | 15   | 10   | 9    |
| 15° | 168 | 114 | 18  | 1    | 1    | 48   |
| 25° | 210 | 125 | 4   | 0    | 1    | 99   |
| 35° | 227 | 84  | 0   | 0    | 1    | 140  |
| 45° | 149 | 21  | 0   | 1    | 1    | 112  |
| 55° | 12  | 0   | 0   | 1    | 1    | 23   |
| 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: P1336169

CATALOG NUMBER: P3A02R459840DE010 E3A301GPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  |
| 2.5°  | 63.7  | 63.5  | 63.7  | 62.0  | 61.9  | 60.6  | 60.3  | 58.8  | 56.9  | 55.9  | 53.7  |
| 5°    | 89.0  | 88.1  | 88.1  | 86.1  | 85.4  | 83.9  | 81.4  | 78.3  | 75.7  | 72.2  | 68.4  |
| 7.5°  | 108.5 | 108.4 | 108.4 | 106.6 | 104.8 | 102.8 | 99.4  | 95.9  | 91.7  | 86.3  | 80.8  |
| 10°   | 124.0 | 124.2 | 123.4 | 121.8 | 119.3 | 117.1 | 113.1 | 108.8 | 103.7 | 98.0  | 90.7  |
| 12.5° | 143.4 | 141.5 | 140.9 | 137.2 | 134.0 | 129.7 | 125.0 | 120.1 | 113.8 | 106.6 | 98.4  |
| 15°   | 167.5 | 165.1 | 162.7 | 157.8 | 152.5 | 145.8 | 138.4 | 131.2 | 123.1 | 114.4 | 104.1 |
| 17.5° | 189.1 | 189.1 | 185.9 | 178.1 | 171.2 | 161.4 | 151.4 | 141.8 | 132.2 | 120.8 | 107.8 |
| 20°   | 203.8 | 203.0 | 200.6 | 194.9 | 187.1 | 176.0 | 163.0 | 149.5 | 137.9 | 125.0 | 110.0 |
| 22.5° | 208.6 | 208.5 | 208.5 | 205.2 | 198.9 | 187.4 | 171.4 | 155.5 | 141.0 | 126.0 | 109.0 |
| 25°   | 210.4 | 210.7 | 211.6 | 210.3 | 205.5 | 194.0 | 176.6 | 158.3 | 142.0 | 124.8 | 105.0 |
| 27.5° | 217.5 | 216.8 | 217.8 | 216.9 | 211.6 | 197.8 | 177.6 | 157.6 | 139.9 | 120.4 | 97.9  |
| 30°   | 223.1 | 222.9 | 224.6 | 223.8 | 216.8 | 200.2 | 176.7 | 155.1 | 134.8 | 111.4 | 86.8  |
| 32.5° | 226.3 | 226.4 | 226.8 | 223.6 | 213.3 | 194.9 | 172.0 | 149.8 | 125.2 | 99.6  | 72.4  |
| 35°   | 227.3 | 226.8 | 224.4 | 216.6 | 202.4 | 182.8 | 160.6 | 137.3 | 112.2 | 84.0  | 57.2  |
| 37.5° | 222.8 | 220.2 | 214.0 | 202.3 | 185.9 | 167.5 | 145.9 | 121.5 | 94.4  | 66.3  | 42.6  |
| 40°   | 205.7 | 202.2 | 194.3 | 182.4 | 167.1 | 149.4 | 127.2 | 101.7 | 73.2  | 48.7  | 30.0  |
| 42.5° | 180.0 | 178.2 | 170.0 | 159.6 | 146.7 | 128.8 | 106.0 | 80.1  | 54.2  | 33.6  | 19.1  |
| 45°   | 149.1 | 146.8 | 141.6 | 132.4 | 122.2 | 103.5 | 82.2  | 57.4  | 37.0  | 21.2  | 9.5   |
| 47.5° | 111.8 | 112.0 | 108.4 | 101.5 | 91.5  | 75.8  | 56.2  | 38.5  | 23.2  | 10.9  | 2.2   |
| 50°   | 87.1  | 85.9  | 80.9  | 73.7  | 62.1  | 50.5  | 36.4  | 24.3  | 12.2  | 2.2   | 0.2   |
| 52.5° | 48.2  | 49.0  | 46.3  | 44.0  | 38.0  | 30.1  | 21.4  | 12.3  | 2.6   | 0.3   | 0.2   |
| 55°   | 11.8  | 12.5  | 12.0  | 12.2  | 12.7  | 11.3  | 8.7   | 2.4   | 0.3   | 0.2   | 0.2   |
| 57.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.4   | 0.6   | 0.6   | 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   |

TEST NUMBER: P1336169

CATALOG NUMBER: P3A02R459840DE010 E3A301GPH

**CANDELA DISTRIBUTION (continued):**

|       | 55°  | 60°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|------|-------|------|--------|------|--------|------|
| 0°    | 39.2 | 39.2 | 39.2  | 39.2 | 39.2   | 39.2 | 39.2   | 39.2 |
| 2.5°  | 52.5 | 50.9 | 47.9  | 38.9 | 31.3   | 25.2 | 21.6   | 21.3 |
| 5°    | 65.0 | 60.6 | 54.3  | 36.5 | 23.1   | 14.6 | 10.6   | 10.0 |
| 7.5°  | 74.9 | 68.7 | 58.9  | 32.6 | 15.8   | 7.5  | 4.1    | 3.4  |
| 10°   | 83.1 | 74.3 | 61.3  | 27.9 | 9.9    | 3.2  | 1.7    | 1.5  |
| 12.5° | 88.7 | 78.1 | 61.8  | 22.7 | 5.7    | 1.6  | 1.1    | 1.0  |
| 15°   | 92.3 | 79.3 | 59.7  | 17.5 | 3.2    | 1.0  | 0.9    | 0.9  |
| 17.5° | 93.8 | 78.3 | 55.7  | 12.7 | 1.7    | 0.8  | 0.8    | 0.8  |
| 20°   | 93.1 | 74.9 | 49.9  | 8.9  | 1.1    | 0.7  | 0.7    | 0.7  |
| 22.5° | 89.8 | 69.2 | 42.6  | 5.9  | 0.8    | 0.6  | 0.6    | 0.6  |
| 25°   | 83.4 | 61.3 | 34.8  | 4.0  | 0.5    | 0.5  | 0.6    | 0.6  |
| 27.5° | 73.7 | 51.7 | 26.6  | 2.7  | 0.4    | 0.5  | 0.6    | 0.6  |
| 30°   | 61.6 | 40.9 | 19.1  | 1.7  | 0.4    | 0.5  | 0.5    | 0.6  |
| 32.5° | 48.9 | 29.8 | 12.6  | 1.0  | 0.3    | 0.5  | 0.6    | 0.7  |
| 35°   | 35.5 | 20.3 | 8.0   | 0.5  | 0.4    | 0.5  | 0.6    | 0.7  |
| 37.5° | 24.9 | 13.3 | 4.7   | 0.3  | 0.4    | 0.5  | 0.7    | 0.7  |
| 40°   | 16.2 | 7.4  | 1.7   | 0.3  | 0.4    | 0.6  | 0.7    | 0.8  |
| 42.5° | 8.4  | 2.6  | 0.3   | 0.3  | 0.4    | 0.6  | 0.8    | 0.9  |
| 45°   | 2.2  | 0.3  | 0.1   | 0.3  | 0.5    | 0.7  | 0.9    | 0.9  |
| 47.5° | 0.3  | 0.1  | 0.1   | 0.3  | 0.5    | 0.8  | 0.9    | 0.9  |
| 50°   | 0.1  | 0.2  | 0.2   | 0.3  | 0.5    | 0.8  | 0.9    | 1.0  |
| 52.5° | 0.2  | 0.2  | 0.2   | 0.3  | 0.6    | 0.8  | 1.0    | 1.1  |
| 55°   | 0.2  | 0.2  | 0.2   | 0.3  | 0.6    | 0.9  | 1.0    | 1.1  |
| 57.5° | 0.2  | 0.2  | 0.2   | 0.3  | 0.6    | 0.9  | 1.0    | 1.0  |
| 60°   | 0.2  | 0.2  | 0.2   | 0.3  | 0.6    | 0.9  | 1.0    | 1.0  |
| 62.5° | 0.2  | 0.2  | 0.3   | 0.3  | 0.6    | 0.8  | 1.0    | 1.0  |
| 65°   | 0.2  | 0.3  | 0.3   | 0.3  | 0.6    | 0.8  | 0.9    | 1.0  |
| 67.5° | 0.2  | 0.2  | 0.3   | 0.3  | 0.6    | 0.8  | 0.9    | 1.0  |
| 70°   | 0.2  | 0.2  | 0.3   | 0.3  | 0.5    | 0.7  | 0.9    | 0.9  |
| 72.5° | 0.2  | 0.2  | 0.3   | 0.3  | 0.5    | 0.7  | 0.8    | 0.9  |
| 75°   | 0.2  | 0.2  | 0.3   | 0.3  | 0.4    | 0.6  | 0.8    | 0.8  |
| 77.5° | 0.2  | 0.2  | 0.3   | 0.3  | 0.4    | 0.5  | 0.7    | 0.7  |
| 80°   | 0.2  | 0.2  | 0.3   | 0.3  | 0.3    | 0.4  | 0.5    | 0.6  |
| 82.5° | 0.2  | 0.2  | 0.2   | 0.3  | 0.3    | 0.3  | 0.4    | 0.4  |
| 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)