

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: P1336208

Luminaire Tested: P3A02R45B2750DE010 E3A301H\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336208  
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: P3A02R45B2750DE010 E3A301H\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 3500K CCT AND, 80CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

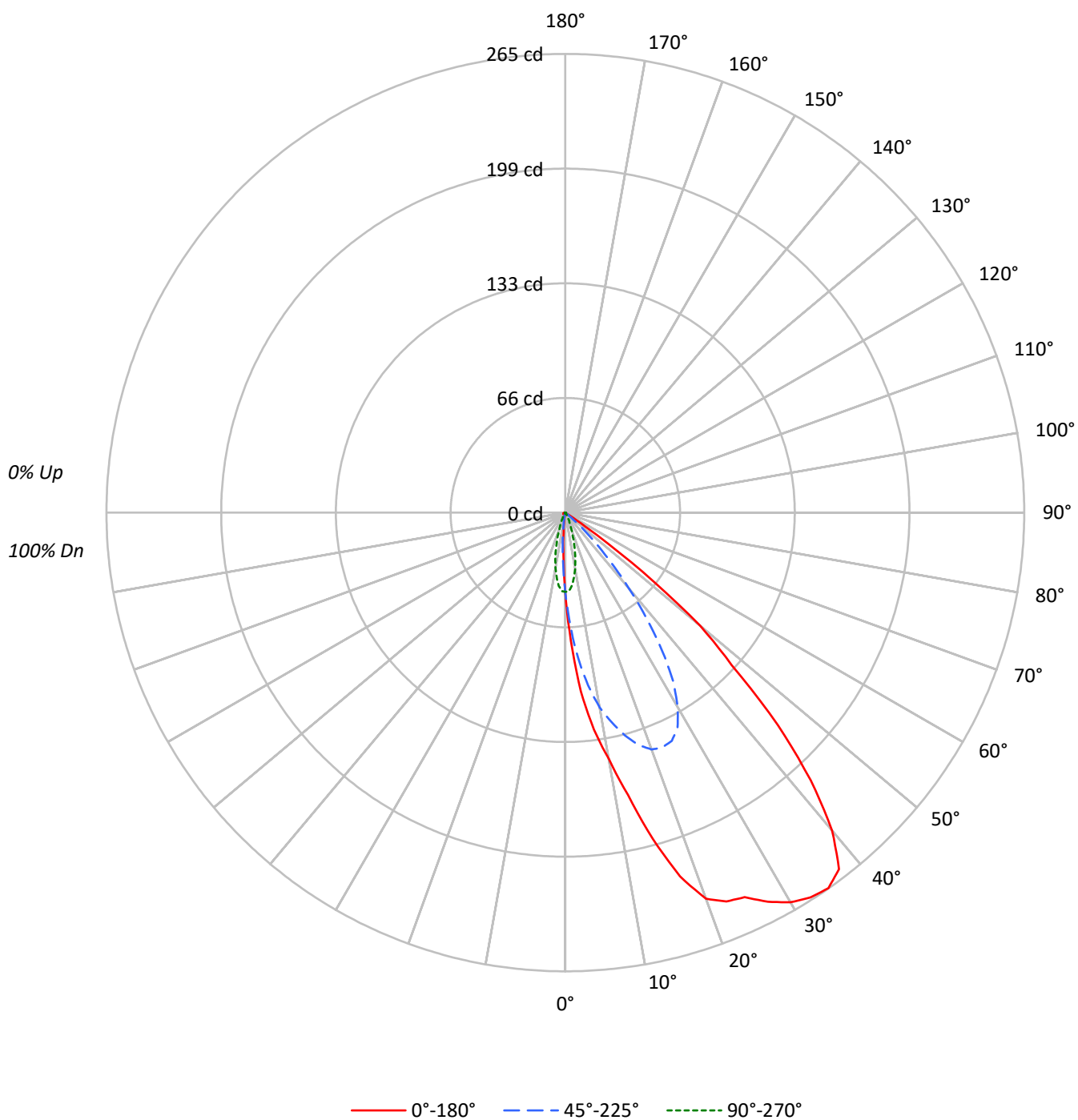
Lumens per Lamp: N/A  
Luminaire Lumens: 120.0 lumens  
Efficiency: N/A  
Efficacy: 41.4 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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  |
| 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°  | 10021 | 10021 | 10021 | 10021 | 10021 |
| 5°  | 22826 | 18512 | 9377  | 3764  | 2553  |
| 10° | 32153 | 25428 | 7237  | 824   | 379   |
| 15° | 44314 | 30261 | 4631  | 272   | 227   |
| 20° | 55398 | 33976 | 2404  | 187   | 187   |
| 25° | 59302 | 35179 | 1113  | 145   | 169   |
| 30° | 65808 | 32866 | 506   | 152   | 177   |
| 35° | 70885 | 26180 | 161   | 161   | 214   |
| 40° | 68614 | 16230 | 86    | 200   | 258   |
| 45° | 53866 | 7660  | 93    | 248   | 310   |
| 50° | 34626 | 887   | 136   | 307   | 409   |
| 55° | 5238  | 76    | 153   | 382   | 497   |
| 60° | 88    | 88    | 175   | 439   | 526   |
| 65° | 104   | 104   | 208   | 467   | 623   |
| 70° | 128   | 128   | 256   | 513   | 705   |
| 75° | 85    | 169   | 339   | 593   | 763   |
| 80° | 126   | 253   | 379   | 631   | 884   |
| 85° | 0     | 252   | 503   | 755   | 755   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53866 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.0    | 4.2       |
| 10°-20°   | 18.1   | 15.1      |
| 20°-30°   | 31.7   | 26.5      |
| 30°-40°   | 36.0   | 30.0      |
| 40°-50°   | 23.3   | 19.4      |
| 50°-60°   | 4.6    | 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°    | 54.8   | 45.7      |
| 0°-40°    | 90.8   | 75.7      |
| 0°-60°    | 118.8  | 99.0      |
| 0°-90°    | 120.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 120.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 46  | 46  | 46  | 46   | 46   |      |
| 5°  | 104 | 84  | 43  | 17   | 12   | 11   |
| 15° | 195 | 133 | 20  | 1    | 1    | 56   |
| 25° | 245 | 145 | 5   | 1    | 1    | 115  |
| 35° | 265 | 98  | 1   | 1    | 1    | 163  |
| 45° | 174 | 25  | 0   | 1    | 1    | 131  |
| 55° | 14  | 0   | 0   | 1    | 1    | 26   |
| 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°    | 45.7  | 45.7  | 45.7  | 45.7  | 45.7  | 45.7  | 45.7  | 45.7  | 45.7  | 45.7  | 45.7  |
| 2.5°  | 74.2  | 74.0  | 74.3  | 72.3  | 72.2  | 70.7  | 70.2  | 68.5  | 66.2  | 65.1  | 62.5  |
| 5°    | 103.7 | 102.7 | 102.7 | 100.3 | 99.5  | 97.7  | 94.8  | 91.2  | 88.2  | 84.1  | 79.7  |
| 7.5°  | 126.4 | 126.2 | 126.2 | 124.1 | 122.1 | 119.7 | 115.8 | 111.7 | 106.9 | 100.6 | 94.1  |
| 10°   | 144.4 | 144.7 | 143.8 | 141.9 | 139.0 | 136.4 | 131.8 | 126.8 | 120.8 | 114.2 | 105.7 |
| 12.5° | 167.1 | 164.9 | 164.2 | 159.9 | 156.2 | 151.1 | 145.6 | 139.9 | 132.6 | 124.2 | 114.6 |
| 15°   | 195.2 | 192.4 | 189.6 | 183.9 | 177.6 | 169.9 | 161.3 | 152.8 | 143.4 | 133.3 | 121.2 |
| 17.5° | 220.3 | 220.3 | 216.6 | 207.5 | 199.5 | 188.1 | 176.4 | 165.2 | 154.0 | 140.7 | 125.6 |
| 20°   | 237.4 | 236.5 | 233.7 | 227.1 | 218.0 | 205.0 | 189.9 | 174.1 | 160.7 | 145.6 | 128.2 |
| 22.5° | 243.1 | 242.9 | 243.0 | 239.1 | 231.7 | 218.3 | 199.7 | 181.1 | 164.3 | 146.8 | 127.0 |
| 25°   | 245.1 | 245.5 | 246.5 | 245.0 | 239.5 | 226.0 | 205.7 | 184.5 | 165.4 | 145.4 | 122.3 |
| 27.5° | 253.4 | 252.6 | 253.7 | 252.7 | 246.5 | 230.4 | 206.9 | 183.7 | 163.0 | 140.3 | 114.1 |
| 30°   | 259.9 | 259.7 | 261.6 | 260.7 | 252.6 | 233.2 | 205.8 | 180.6 | 157.1 | 129.8 | 101.2 |
| 32.5° | 263.6 | 263.7 | 264.2 | 260.5 | 248.5 | 227.1 | 200.4 | 174.5 | 145.9 | 116.0 | 84.3  |
| 35°   | 264.8 | 264.2 | 261.4 | 252.3 | 235.8 | 213.0 | 187.1 | 160.0 | 130.8 | 97.8  | 66.6  |
| 37.5° | 259.6 | 256.5 | 249.3 | 235.6 | 216.6 | 195.2 | 170.0 | 141.6 | 110.0 | 77.3  | 49.7  |
| 40°   | 239.7 | 235.5 | 226.4 | 212.5 | 194.7 | 174.0 | 148.2 | 118.5 | 85.3  | 56.7  | 34.9  |
| 42.5° | 209.7 | 207.6 | 198.1 | 186.0 | 170.9 | 150.0 | 123.4 | 93.3  | 63.1  | 39.1  | 22.3  |
| 45°   | 173.7 | 171.0 | 165.0 | 154.2 | 142.4 | 120.5 | 95.7  | 66.8  | 43.1  | 24.7  | 11.0  |
| 47.5° | 130.3 | 130.5 | 126.3 | 118.2 | 106.6 | 88.3  | 65.5  | 44.9  | 27.0  | 12.7  | 2.5   |
| 50°   | 101.5 | 100.1 | 94.2  | 85.9  | 72.4  | 58.8  | 42.4  | 28.3  | 14.3  | 2.6   | 0.2   |
| 52.5° | 56.2  | 57.1  | 54.0  | 51.3  | 44.3  | 35.1  | 25.0  | 14.4  | 3.0   | 0.3   | 0.2   |
| 55°   | 13.7  | 14.6  | 13.9  | 14.3  | 14.8  | 13.1  | 10.1  | 2.8   | 0.3   | 0.2   | 0.2   |
| 57.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.7   | 0.7   | 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°    | 45.7  | 45.7 | 45.7  | 45.7 | 45.7   | 45.7 | 45.7   | 45.7 |
| 2.5°  | 61.2  | 59.3 | 55.8  | 45.4 | 36.4   | 29.4 | 25.2   | 24.8 |
| 5°    | 75.8  | 70.7 | 63.2  | 42.6 | 26.9   | 17.1 | 12.3   | 11.6 |
| 7.5°  | 87.3  | 80.1 | 68.6  | 37.9 | 18.4   | 8.7  | 4.8    | 4.0  |
| 10°   | 96.8  | 86.6 | 71.5  | 32.5 | 11.5   | 3.7  | 2.0    | 1.7  |
| 12.5° | 103.4 | 91.0 | 72.0  | 26.5 | 6.6    | 1.8  | 1.3    | 1.2  |
| 15°   | 107.6 | 92.4 | 69.5  | 20.4 | 3.7    | 1.2  | 1.1    | 1.0  |
| 17.5° | 109.3 | 91.2 | 64.9  | 14.8 | 2.0    | 0.9  | 0.9    | 0.9  |
| 20°   | 108.5 | 87.3 | 58.1  | 10.3 | 1.3    | 0.8  | 0.8    | 0.8  |
| 22.5° | 104.7 | 80.6 | 49.6  | 6.9  | 0.9    | 0.7  | 0.7    | 0.7  |
| 25°   | 97.1  | 71.5 | 40.5  | 4.6  | 0.6    | 0.6  | 0.7    | 0.7  |
| 27.5° | 85.9  | 60.2 | 31.0  | 3.1  | 0.5    | 0.6  | 0.7    | 0.7  |
| 30°   | 71.8  | 47.7 | 22.3  | 2.0  | 0.5    | 0.6  | 0.6    | 0.7  |
| 32.5° | 57.0  | 34.7 | 14.7  | 1.2  | 0.4    | 0.6  | 0.7    | 0.8  |
| 35°   | 41.3  | 23.7 | 9.3   | 0.6  | 0.5    | 0.6  | 0.7    | 0.8  |
| 37.5° | 29.0  | 15.5 | 5.4   | 0.4  | 0.5    | 0.6  | 0.8    | 0.8  |
| 40°   | 18.9  | 8.6  | 2.0   | 0.3  | 0.5    | 0.7  | 0.8    | 0.9  |
| 42.5° | 9.8   | 3.0  | 0.4   | 0.3  | 0.5    | 0.7  | 0.9    | 1.0  |
| 45°   | 2.5   | 0.4  | 0.1   | 0.3  | 0.6    | 0.8  | 1.0    | 1.0  |
| 47.5° | 0.3   | 0.1  | 0.1   | 0.4  | 0.6    | 0.9  | 1.0    | 1.1  |
| 50°   | 0.1   | 0.2  | 0.2   | 0.4  | 0.6    | 0.9  | 1.1    | 1.2  |
| 52.5° | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 0.9  | 1.2    | 1.3  |
| 55°   | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 1.0  | 1.2    | 1.3  |
| 57.5° | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 1.0  | 1.2    | 1.2  |
| 60°   | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 1.0  | 1.2    | 1.2  |
| 62.5° | 0.2   | 0.2  | 0.3   | 0.4  | 0.7    | 0.9  | 1.2    | 1.2  |
| 65°   | 0.2   | 0.3  | 0.3   | 0.4  | 0.7    | 0.9  | 1.1    | 1.2  |
| 67.5° | 0.2   | 0.2  | 0.3   | 0.4  | 0.7    | 0.9  | 1.1    | 1.2  |
| 70°   | 0.2   | 0.2  | 0.3   | 0.4  | 0.6    | 0.8  | 1.0    | 1.1  |
| 72.5° | 0.2   | 0.2  | 0.3   | 0.4  | 0.6    | 0.8  | 0.9    | 1.0  |
| 75°   | 0.2   | 0.2  | 0.3   | 0.4  | 0.5    | 0.7  | 0.9    | 0.9  |
| 77.5° | 0.2   | 0.2  | 0.3   | 0.3  | 0.5    | 0.6  | 0.8    | 0.8  |
| 80°   | 0.2   | 0.2  | 0.3   | 0.3  | 0.4    | 0.5  | 0.6    | 0.7  |
| 82.5° | 0.2   | 0.2  | 0.2   | 0.3  | 0.3    | 0.4  | 0.5    | 0.5  |
| 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)