

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: P1335949

Luminaire Tested: P3A02R459024DE010 E3A301WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1335949  
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: P3A02R459024DE010 E3A301WH  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3A301WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

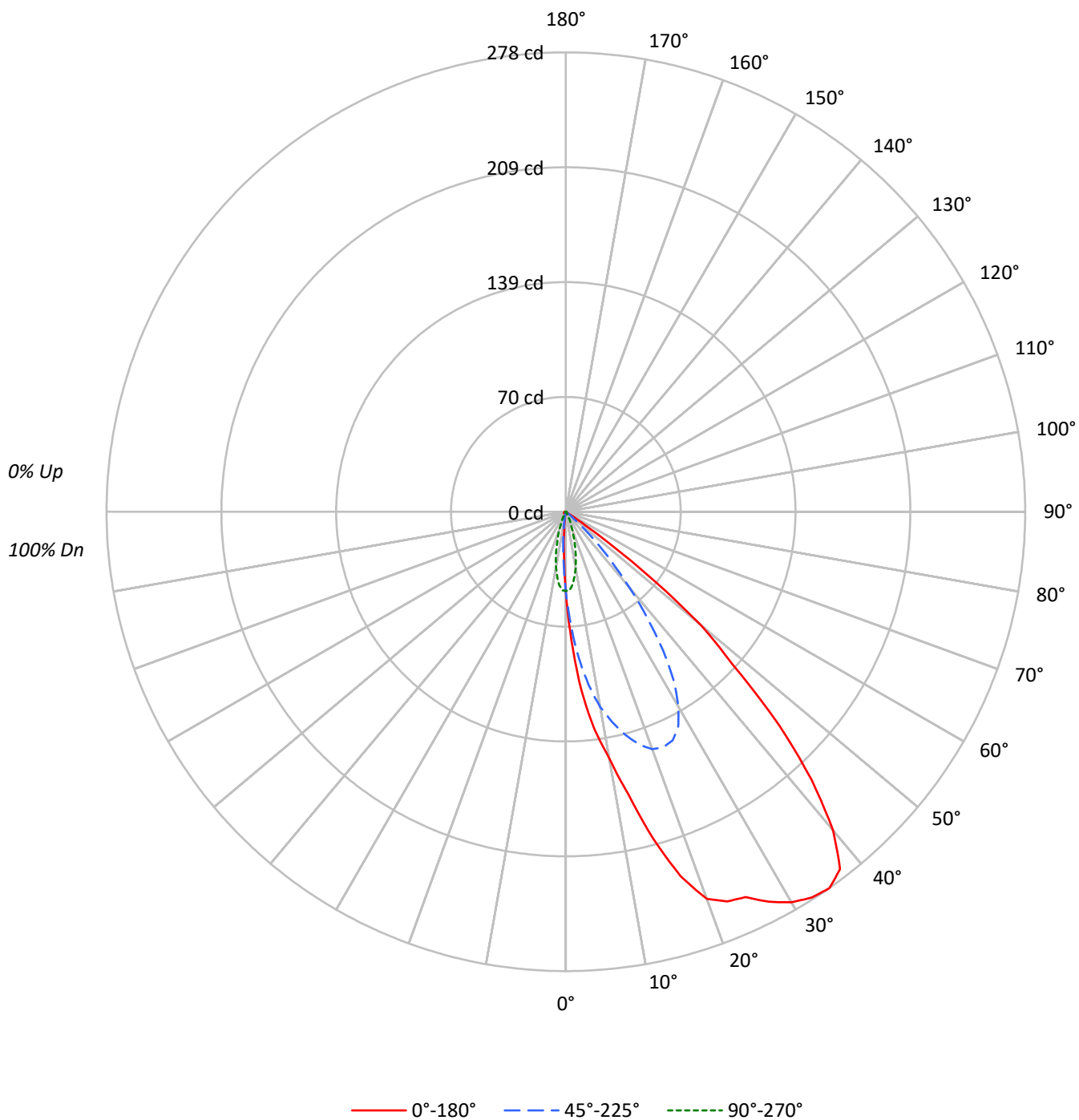
Lumens per Lamp: N/A  
Luminaire Lumens: 125.9 lumens  
Efficiency: N/A  
Efficacy: 35.0 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1335949

CATALOG NUMBER: P3A02R459024DE010 E3A301WH

### 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°  | 10504 | 10504 | 10504 | 10504 | 10504 |
| 5°  | 23971 | 19436 | 9839  | 3940  | 2685  |
| 10° | 33756 | 26697 | 7593  | 868   | 401   |
| 15° | 46538 | 31760 | 4858  | 295   | 250   |
| 20° | 58175 | 35680 | 2544  | 187   | 187   |
| 25° | 62254 | 36946 | 1161  | 145   | 169   |
| 30° | 69099 | 34486 | 532   | 152   | 177   |
| 35° | 74445 | 27492 | 161   | 161   | 214   |
| 40° | 72021 | 17032 | 86    | 200   | 258   |
| 45° | 56564 | 8032  | 93    | 248   | 341   |
| 50° | 36331 | 921   | 136   | 307   | 443   |
| 55° | 5505  | 76    | 153   | 421   | 535   |
| 60° | 88    | 88    | 175   | 482   | 570   |
| 65° | 104   | 104   | 208   | 467   | 675   |
| 70° | 128   | 128   | 256   | 513   | 769   |
| 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: 56564 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.2    | 4.2       |
| 10°-20°   | 19.0   | 15.1      |
| 20°-30°   | 33.3   | 26.5      |
| 30°-40°   | 37.8   | 30.0      |
| 40°-50°   | 24.5   | 19.5      |
| 50°-60°   | 4.8    | 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°    | 57.5   | 45.7      |
| 0°-40°    | 95.4   | 75.7      |
| 0°-60°    | 124.7  | 99.0      |
| 0°-90°    | 125.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 125.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 48  | 48  | 48  | 48   | 48   |      |
| 5°  | 109 | 88  | 45  | 18   | 12   | 12   |
| 15° | 205 | 140 | 21  | 1    | 1    | 59   |
| 25° | 257 | 153 | 5   | 1    | 1    | 121  |
| 35° | 278 | 103 | 1   | 1    | 1    | 171  |
| 45° | 182 | 26  | 0   | 1    | 1    | 137  |
| 55° | 14  | 0   | 0   | 1    | 1    | 28   |
| 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°    | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  |
| 2.5°  | 77.9  | 77.7  | 78.0  | 75.9  | 75.8  | 74.2  | 73.8  | 72.0  | 69.5  | 68.4  | 65.6  |
| 5°    | 108.9 | 107.8 | 107.8 | 105.3 | 104.4 | 102.6 | 99.6  | 95.8  | 92.6  | 88.3  | 83.7  |
| 7.5°  | 132.8 | 132.6 | 132.6 | 130.3 | 128.2 | 125.7 | 121.6 | 117.3 | 112.2 | 105.6 | 98.8  |
| 10°   | 151.6 | 152.0 | 151.0 | 149.0 | 145.9 | 143.2 | 138.4 | 133.1 | 126.9 | 119.9 | 111.0 |
| 12.5° | 175.4 | 173.1 | 172.4 | 167.9 | 164.0 | 158.7 | 152.9 | 146.9 | 139.2 | 130.5 | 120.3 |
| 15°   | 205.0 | 202.0 | 199.1 | 193.0 | 186.5 | 178.4 | 169.3 | 160.5 | 150.6 | 139.9 | 127.3 |
| 17.5° | 231.3 | 231.3 | 227.4 | 217.9 | 209.5 | 197.5 | 185.2 | 173.4 | 161.8 | 147.7 | 131.9 |
| 20°   | 249.3 | 248.4 | 245.4 | 238.5 | 228.9 | 215.3 | 199.4 | 182.8 | 168.7 | 152.9 | 134.6 |
| 22.5° | 255.2 | 255.0 | 255.1 | 251.0 | 243.3 | 229.2 | 209.7 | 190.2 | 172.5 | 154.2 | 133.3 |
| 25°   | 257.3 | 257.7 | 258.8 | 257.2 | 251.4 | 237.3 | 216.0 | 193.7 | 173.7 | 152.7 | 128.5 |
| 27.5° | 266.1 | 265.2 | 266.4 | 265.3 | 258.8 | 241.9 | 217.3 | 192.8 | 171.1 | 147.3 | 119.8 |
| 30°   | 272.9 | 272.7 | 274.7 | 273.8 | 265.2 | 244.9 | 216.1 | 189.7 | 164.9 | 136.2 | 106.2 |
| 32.5° | 276.8 | 276.9 | 277.5 | 273.6 | 260.9 | 238.5 | 210.4 | 183.2 | 153.2 | 121.8 | 88.5  |
| 35°   | 278.1 | 277.5 | 274.5 | 264.9 | 247.6 | 223.6 | 196.4 | 168.0 | 137.3 | 102.7 | 70.0  |
| 37.5° | 272.6 | 269.3 | 261.8 | 247.4 | 227.4 | 205.0 | 178.5 | 148.7 | 115.5 | 81.1  | 52.2  |
| 40°   | 251.6 | 247.3 | 237.7 | 223.1 | 204.4 | 182.7 | 155.6 | 124.4 | 89.6  | 59.5  | 36.7  |
| 42.5° | 220.2 | 218.0 | 208.0 | 195.3 | 179.5 | 157.5 | 129.6 | 98.0  | 66.3  | 41.1  | 23.4  |
| 45°   | 182.4 | 179.6 | 173.2 | 162.0 | 149.5 | 126.6 | 100.5 | 70.2  | 45.2  | 25.9  | 11.6  |
| 47.5° | 136.8 | 137.0 | 132.7 | 124.1 | 111.9 | 92.7  | 68.8  | 47.1  | 28.3  | 13.4  | 2.6   |
| 50°   | 106.5 | 105.1 | 98.9  | 90.2  | 76.0  | 61.7  | 44.5  | 29.7  | 15.0  | 2.7   | 0.2   |
| 52.5° | 59.0  | 60.0  | 56.7  | 53.8  | 46.5  | 36.9  | 26.2  | 15.1  | 3.2   | 0.3   | 0.2   |
| 55°   | 14.4  | 15.3  | 14.6  | 15.0  | 15.5  | 13.8  | 10.6  | 3.0   | 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°    | 47.9  | 47.9 | 47.9  | 47.9 | 47.9   | 47.9 | 47.9   | 47.9 |
| 2.5°  | 64.3  | 62.3 | 58.6  | 47.6 | 38.3   | 30.9 | 26.4   | 26.0 |
| 5°    | 79.6  | 74.2 | 66.4  | 44.7 | 28.2   | 17.9 | 13.0   | 12.2 |
| 7.5°  | 91.7  | 84.1 | 72.1  | 39.8 | 19.3   | 9.2  | 5.1    | 4.2  |
| 10°   | 101.7 | 90.9 | 75.0  | 34.1 | 12.1   | 3.9  | 2.1    | 1.8  |
| 12.5° | 108.5 | 95.6 | 75.6  | 27.8 | 7.0    | 1.9  | 1.4    | 1.3  |
| 15°   | 113.0 | 97.1 | 73.0  | 21.4 | 3.9    | 1.3  | 1.2    | 1.1  |
| 17.5° | 114.8 | 95.8 | 68.2  | 15.5 | 2.1    | 0.9  | 0.9    | 0.9  |
| 20°   | 113.9 | 91.7 | 61.0  | 10.9 | 1.4    | 0.8  | 0.8    | 0.8  |
| 22.5° | 109.9 | 84.6 | 52.1  | 7.3  | 0.9    | 0.7  | 0.7    | 0.7  |
| 25°   | 102.0 | 75.0 | 42.6  | 4.8  | 0.6    | 0.6  | 0.7    | 0.7  |
| 27.5° | 90.2  | 63.2 | 32.6  | 3.3  | 0.5    | 0.6  | 0.7    | 0.7  |
| 30°   | 75.3  | 50.1 | 23.4  | 2.1  | 0.5    | 0.6  | 0.6    | 0.7  |
| 32.5° | 59.9  | 36.5 | 15.4  | 1.3  | 0.4    | 0.6  | 0.7    | 0.8  |
| 35°   | 43.4  | 24.9 | 9.8   | 0.6  | 0.5    | 0.6  | 0.7    | 0.8  |
| 37.5° | 30.5  | 16.2 | 5.7   | 0.4  | 0.5    | 0.6  | 0.8    | 0.8  |
| 40°   | 19.8  | 9.1  | 2.1   | 0.3  | 0.5    | 0.7  | 0.8    | 0.9  |
| 42.5° | 10.3  | 3.2  | 0.4   | 0.3  | 0.5    | 0.7  | 0.9    | 1.1  |
| 45°   | 2.6   | 0.4  | 0.1   | 0.3  | 0.6    | 0.8  | 1.1    | 1.1  |
| 47.5° | 0.3   | 0.1  | 0.1   | 0.4  | 0.6    | 0.9  | 1.1    | 1.2  |
| 50°   | 0.1   | 0.2  | 0.2   | 0.4  | 0.6    | 0.9  | 1.2    | 1.3  |
| 52.5° | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 0.9  | 1.3    | 1.4  |
| 55°   | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 1.1  | 1.3    | 1.4  |
| 57.5° | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 1.1  | 1.3    | 1.3  |
| 60°   | 0.2   | 0.2  | 0.2   | 0.4  | 0.7    | 1.1  | 1.3    | 1.3  |
| 62.5° | 0.2   | 0.2  | 0.3   | 0.4  | 0.7    | 0.9  | 1.3    | 1.3  |
| 65°   | 0.2   | 0.3  | 0.3   | 0.4  | 0.7    | 0.9  | 1.2    | 1.3  |
| 67.5° | 0.2   | 0.2  | 0.3   | 0.4  | 0.7    | 0.9  | 1.2    | 1.3  |
| 70°   | 0.2   | 0.2  | 0.3   | 0.4  | 0.6    | 0.8  | 1.1    | 1.2  |
| 72.5° | 0.2   | 0.2  | 0.3   | 0.4  | 0.6    | 0.8  | 0.9    | 1.1  |
| 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)