

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: P1336133

Luminaire Tested: P3A02R459827DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336133  
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: P3A02R459827DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

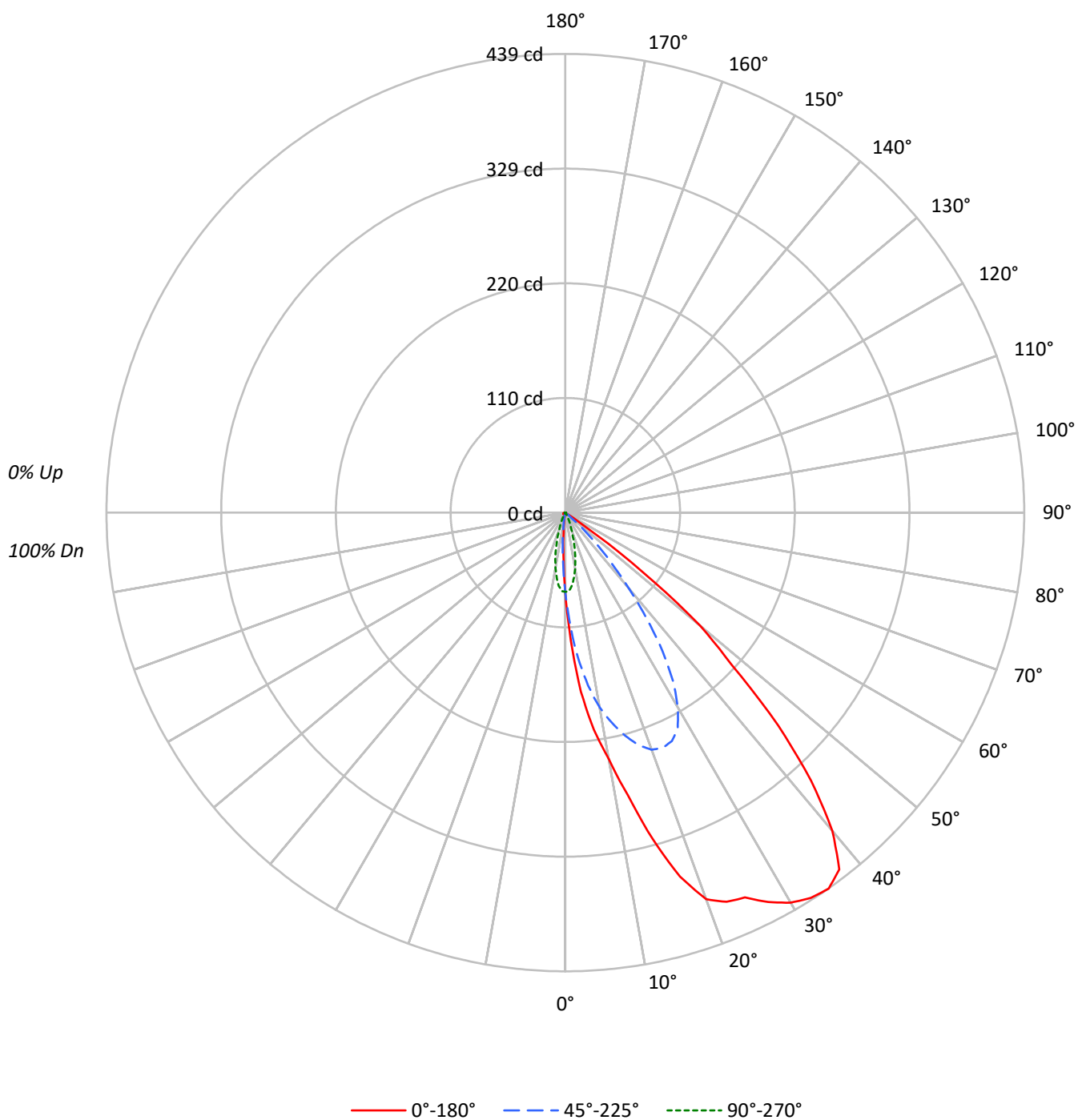
Lumens per Lamp: N/A  
Luminaire Lumens: 199.0 lumens  
Efficiency: N/A  
Efficacy: 55.3 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1336133

CATALOG NUMBER: P3A02R459827DE010 E3CA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1336133

CATALOG NUMBER: P3A02R459827DE010 E3CA301MW

**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°  | 16600  | 16600 | 16600 | 16600 | 16600 |
| 5°  | 37838  | 30707 | 15540 | 6229  | 4248  |
| 10° | 53328  | 42172 | 12002 | 1381  | 623   |
| 15° | 73485  | 50171 | 7673  | 454   | 386   |
| 20° | 91895  | 56355 | 3990  | 303   | 303   |
| 25° | 98328  | 58358 | 1863  | 242   | 290   |
| 30° | 109131 | 54489 | 836   | 253   | 304   |
| 35° | 117570 | 43446 | 268   | 268   | 348   |
| 40° | 113756 | 26908 | 143   | 344   | 429   |
| 45° | 89343  | 12683 | 155   | 403   | 527   |
| 50° | 57414  | 1467  | 239   | 512   | 682   |
| 55° | 8717   | 115   | 268   | 650   | 841   |
| 60° | 132    | 132   | 307   | 746   | 877   |
| 65° | 156    | 156   | 363   | 778   | 1038  |
| 70° | 192    | 192   | 449   | 833   | 1154  |
| 75° | 169    | 254   | 593   | 1017  | 1271  |
| 80° | 253    | 379   | 631   | 1010  | 1515  |
| 85° | 0      | 503   | 755   | 1258  | 1258  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 89343 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.3    | 4.2       |
| 10°-20°   | 30.0   | 15.1      |
| 20°-30°   | 52.6   | 26.5      |
| 30°-40°   | 59.8   | 30.0      |
| 40°-50°   | 38.7   | 19.5      |
| 50°-60°   | 7.6    | 3.8       |
| 60°-70°   | 0.9    | 0.5       |
| 70°-80°   | 0.8    | 0.4       |
| 80°-90°   | 0.3    | 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°    | 90.9   | 45.7      |
| 0°-40°    | 150.7  | 75.7      |
| 0°-60°    | 197.0  | 99.0      |
| 0°-90°    | 199.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 199.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 76  | 76  | 76  | 76   | 76   |      |
| 5°  | 172 | 140 | 71  | 28   | 19   | 18   |
| 15° | 324 | 221 | 34  | 2    | 2    | 93   |
| 25° | 406 | 241 | 8   | 1    | 1    | 191  |
| 35° | 439 | 162 | 1   | 1    | 1    | 270  |
| 45° | 288 | 41  | 0   | 1    | 2    | 217  |
| 55° | 23  | 0   | 1   | 2    | 2    | 44   |
| 65° | 0   | 0   | 1   | 2    | 2    | 0    |
| 75° | 0   | 0   | 1   | 1    | 2    | 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°    | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  |
| 2.5°  | 123.0 | 122.7 | 123.2 | 119.8 | 119.7 | 117.2 | 116.5 | 113.7 | 109.8 | 108.0 | 103.7 |
| 5°    | 171.9 | 170.3 | 170.3 | 166.3 | 164.9 | 162.1 | 157.3 | 151.3 | 146.3 | 139.5 | 132.1 |
| 7.5°  | 209.7 | 209.4 | 209.4 | 205.9 | 202.5 | 198.5 | 192.1 | 185.2 | 177.2 | 166.8 | 156.1 |
| 10°   | 239.5 | 240.0 | 238.5 | 235.3 | 230.5 | 226.2 | 218.5 | 210.2 | 200.4 | 189.4 | 175.2 |
| 12.5° | 277.1 | 273.4 | 272.3 | 265.1 | 259.0 | 250.6 | 241.5 | 232.0 | 219.8 | 206.0 | 190.1 |
| 15°   | 323.7 | 319.0 | 314.4 | 304.9 | 294.6 | 281.8 | 267.4 | 253.5 | 237.8 | 221.0 | 201.0 |
| 17.5° | 365.3 | 365.3 | 359.1 | 344.2 | 330.9 | 311.9 | 292.6 | 273.9 | 255.5 | 233.3 | 208.4 |
| 20°   | 393.8 | 392.3 | 387.6 | 376.6 | 361.5 | 340.0 | 314.9 | 288.7 | 266.4 | 241.5 | 212.5 |
| 22.5° | 403.1 | 402.7 | 402.9 | 396.4 | 384.3 | 362.0 | 331.2 | 300.4 | 272.4 | 243.5 | 210.5 |
| 25°   | 406.4 | 407.1 | 408.7 | 406.2 | 397.1 | 374.8 | 341.2 | 305.9 | 274.3 | 241.2 | 202.9 |
| 27.5° | 420.2 | 418.9 | 420.7 | 419.1 | 408.7 | 382.1 | 343.2 | 304.6 | 270.3 | 232.7 | 189.2 |
| 30°   | 431.0 | 430.7 | 433.9 | 432.4 | 418.9 | 386.8 | 341.3 | 299.6 | 260.5 | 215.2 | 167.8 |
| 32.5° | 437.2 | 437.4 | 438.2 | 432.0 | 412.1 | 376.6 | 332.4 | 289.4 | 242.0 | 192.4 | 139.8 |
| 35°   | 439.2 | 438.2 | 433.5 | 418.4 | 391.1 | 353.2 | 310.2 | 265.3 | 216.9 | 162.3 | 110.5 |
| 37.5° | 430.5 | 425.4 | 413.4 | 390.8 | 359.1 | 323.7 | 281.9 | 234.8 | 182.4 | 128.1 | 82.4  |
| 40°   | 397.4 | 390.6 | 375.5 | 352.3 | 322.9 | 288.6 | 245.8 | 196.5 | 141.5 | 94.0  | 57.9  |
| 42.5° | 347.8 | 344.3 | 328.5 | 308.4 | 283.4 | 248.8 | 204.7 | 154.8 | 104.7 | 64.9  | 36.9  |
| 45°   | 288.1 | 283.6 | 273.6 | 255.8 | 236.2 | 199.9 | 158.8 | 110.8 | 71.4  | 40.9  | 18.3  |
| 47.5° | 216.0 | 216.4 | 209.5 | 196.0 | 176.7 | 146.5 | 108.7 | 74.4  | 44.8  | 21.1  | 4.2   |
| 50°   | 168.3 | 165.9 | 156.3 | 142.5 | 120.0 | 97.5  | 70.2  | 46.9  | 23.6  | 4.3   | 0.3   |
| 52.5° | 93.2  | 94.7  | 89.5  | 85.0  | 73.4  | 58.2  | 41.4  | 23.8  | 5.0   | 0.5   | 0.3   |
| 55°   | 22.8  | 24.1  | 23.1  | 23.6  | 24.5  | 21.8  | 16.8  | 4.7   | 0.5   | 0.3   | 0.3   |
| 57.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.8   | 1.2   | 1.2   | 0.3   | 0.3   | 0.3   | 0.3   |
| 60°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 62.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 65°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 67.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 70°   | 0.3   | 0.3   | 0.3   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 72.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.3   |
| 75°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.3   |
| 77.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.2   |
| 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°    | 75.7  | 75.7  | 75.7  | 75.7 | 75.7   | 75.7 | 75.7   | 75.7 |
| 2.5°  | 101.5 | 98.4  | 92.5  | 75.2 | 60.4   | 48.8 | 41.8   | 41.1 |
| 5°    | 125.7 | 117.2 | 104.8 | 70.6 | 44.6   | 28.3 | 20.5   | 19.3 |
| 7.5°  | 144.8 | 132.8 | 113.8 | 62.9 | 30.5   | 14.5 | 8.0    | 6.7  |
| 10°   | 160.6 | 143.6 | 118.5 | 53.9 | 19.1   | 6.2  | 3.3    | 2.8  |
| 12.5° | 171.4 | 150.9 | 119.3 | 43.9 | 11.0   | 3.0  | 2.2    | 2.0  |
| 15°   | 178.4 | 153.3 | 115.3 | 33.8 | 6.2    | 2.0  | 1.8    | 1.7  |
| 17.5° | 181.2 | 151.3 | 107.7 | 24.5 | 3.3    | 1.5  | 1.5    | 1.5  |
| 20°   | 179.9 | 144.8 | 96.4  | 17.1 | 2.2    | 1.3  | 1.3    | 1.3  |
| 22.5° | 173.6 | 133.6 | 82.2  | 11.5 | 1.5    | 1.2  | 1.2    | 1.2  |
| 25°   | 161.1 | 118.5 | 67.2  | 7.7  | 1.0    | 1.0  | 1.2    | 1.2  |
| 27.5° | 142.5 | 99.9  | 51.4  | 5.2  | 0.8    | 1.0  | 1.2    | 1.2  |
| 30°   | 119.0 | 79.1  | 36.9  | 3.3  | 0.8    | 1.0  | 1.0    | 1.2  |
| 32.5° | 94.5  | 57.6  | 24.3  | 2.0  | 0.7    | 1.0  | 1.2    | 1.3  |
| 35°   | 68.6  | 39.3  | 15.5  | 1.0  | 0.8    | 1.0  | 1.2    | 1.3  |
| 37.5° | 48.1  | 25.6  | 9.0   | 0.7  | 0.8    | 1.0  | 1.3    | 1.3  |
| 40°   | 31.3  | 14.3  | 3.3   | 0.5  | 0.8    | 1.2  | 1.3    | 1.5  |
| 42.5° | 16.3  | 5.0   | 0.7   | 0.5  | 0.8    | 1.2  | 1.5    | 1.7  |
| 45°   | 4.2   | 0.7   | 0.2   | 0.5  | 1.0    | 1.3  | 1.7    | 1.7  |
| 47.5° | 0.5   | 0.2   | 0.2   | 0.7  | 1.0    | 1.5  | 1.7    | 1.8  |
| 50°   | 0.2   | 0.3   | 0.3   | 0.7  | 1.0    | 1.5  | 1.8    | 2.0  |
| 52.5° | 0.3   | 0.3   | 0.3   | 0.7  | 1.2    | 1.5  | 2.0    | 2.2  |
| 55°   | 0.3   | 0.3   | 0.3   | 0.7  | 1.2    | 1.7  | 2.0    | 2.2  |
| 57.5° | 0.3   | 0.3   | 0.3   | 0.7  | 1.2    | 1.7  | 2.0    | 2.0  |
| 60°   | 0.3   | 0.3   | 0.3   | 0.7  | 1.2    | 1.7  | 2.0    | 2.0  |
| 62.5° | 0.3   | 0.3   | 0.5   | 0.7  | 1.2    | 1.5  | 2.0    | 2.0  |
| 65°   | 0.3   | 0.5   | 0.5   | 0.7  | 1.2    | 1.5  | 1.8    | 2.0  |
| 67.5° | 0.3   | 0.3   | 0.5   | 0.7  | 1.2    | 1.5  | 1.8    | 2.0  |
| 70°   | 0.3   | 0.3   | 0.5   | 0.7  | 1.0    | 1.3  | 1.7    | 1.8  |
| 72.5° | 0.3   | 0.3   | 0.5   | 0.7  | 1.0    | 1.3  | 1.5    | 1.7  |
| 75°   | 0.3   | 0.3   | 0.5   | 0.7  | 0.8    | 1.2  | 1.5    | 1.5  |
| 77.5° | 0.3   | 0.3   | 0.5   | 0.5  | 0.8    | 1.0  | 1.3    | 1.3  |
| 80°   | 0.3   | 0.3   | 0.5   | 0.5  | 0.7    | 0.8  | 1.0    | 1.2  |
| 82.5° | 0.3   | 0.3   | 0.3   | 0.5  | 0.5    | 0.7  | 0.8    | 0.8  |
| 85°   | 0.3   | 0.3   | 0.3   | 0.3  | 0.3    | 0.5  | 0.5    | 0.5  |
| 87.5° | 0.2   | 0.3   | 0.3   | 0.3  | 0.3    | 0.3  | 0.3    | 0.2  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)