

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: P1340505

Luminaire Tested: P3A09R209827DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R209827DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

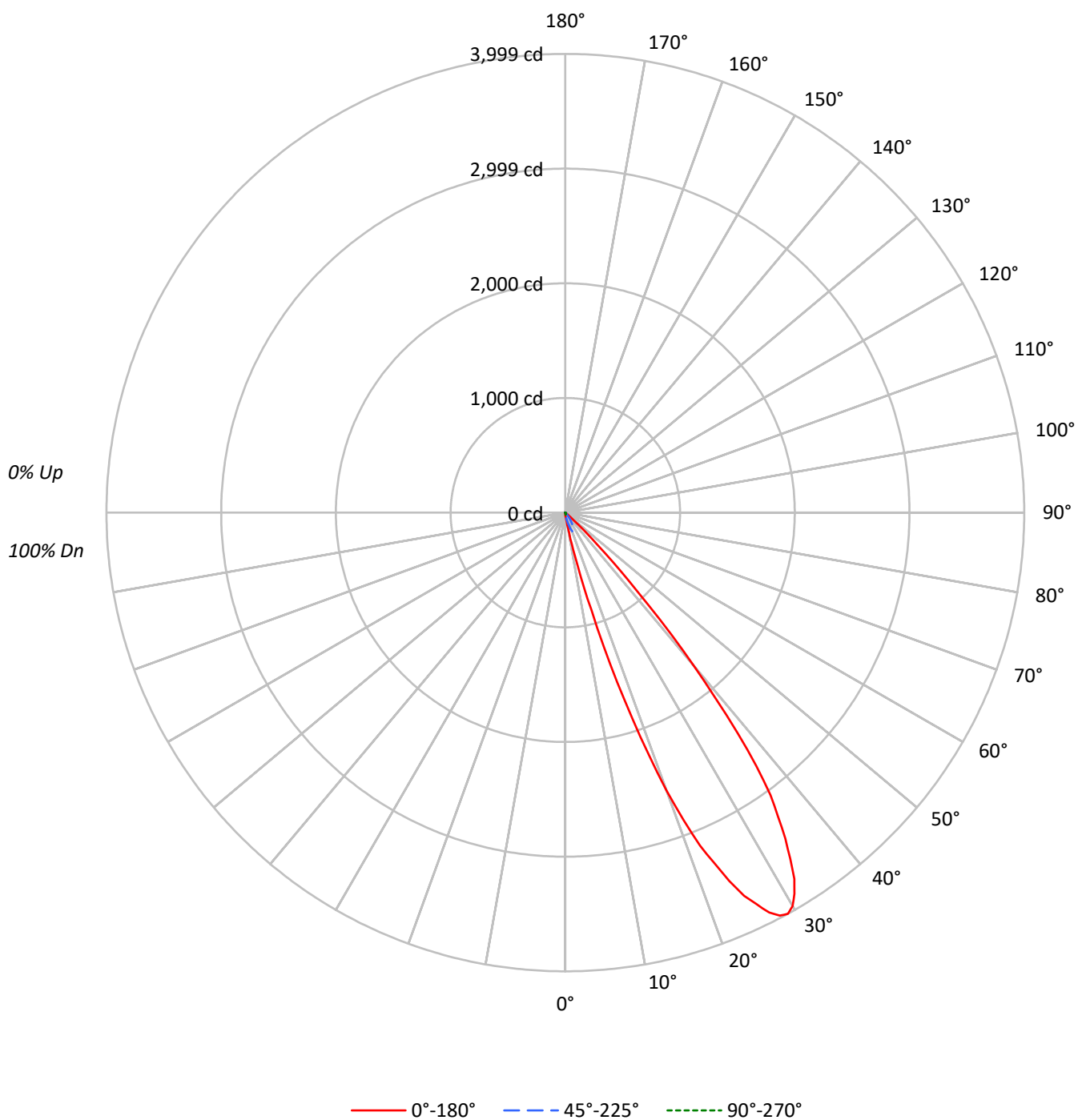
Lumens per Lamp: N/A  
Luminaire Lumens: 560.9 lumens  
Efficiency: N/A  
Efficacy: 51.0 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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: P1340505

CATALOG NUMBER: P3A09R209827DE010 E3CA301MW

### 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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 43  | 43  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 39  | 39  | 37  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°   | 90°  | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0°  | 4232    | 4232  | 4232 | 4232 | 4232 |
| 5°  | 9751    | 7286  | 4028 | 2465 | 2135 |
| 10° | 30705   | 12692 | 3295 | 1358 | 1024 |
| 15° | 198957  | 23451 | 2429 | 454  | 114  |
| 20° | 600489  | 40137 | 1657 | 0    | 0    |
| 25° | 891802  | 40502 | 992  | 0    | 0    |
| 30° | 1002863 | 30790 | 380  | 0    | 0    |
| 35° | 865289  | 18390 | 268  | 0    | 0    |
| 40° | 498248  | 6269  | 0    | 0    | 0    |
| 45° | 121532  | 2512  | 155  | 0    | 155  |
| 50° | 14601   | 682   | 171  | 171  | 512  |
| 55° | 1950    | 0     | 382  | 382  | 765  |
| 60° | 219     | 0     | 658  | 658  | 1096 |
| 65° | 259     | 259   | 1038 | 1038 | 1608 |
| 70° | 321     | 321   | 1282 | 1282 | 1603 |
| 75° | 0       | 424   | 1694 | 1271 | 1694 |
| 80° | 0       | 631   | 1894 | 1263 | 1894 |
| 85° | 0       | 1258  | 3774 | 1258 | 1258 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 122307 cd/sqm

TEST NUMBER: P1340505

CATALOG NUMBER: P3A09R209827DE010 E3CA301MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.6    | 0.5       |
| 10°-20°   | 52.0   | 9.3       |
| 20°-30°   | 226.6  | 40.4      |
| 30°-40°   | 228.2  | 40.7      |
| 40°-50°   | 45.8   | 8.2       |
| 50°-60°   | 2.3    | 0.4       |
| 60°-70°   | 1.5    | 0.3       |
| 70°-80°   | 1.3    | 0.2       |
| 80°-90°   | 0.7    | 0.1       |
| 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°    | 281.2  | 50.1      |
| 0°-40°    | 509.4  | 90.8      |
| 0°-60°    | 557.4  | 99.4      |
| 0°-90°    | 560.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 560.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 19   | 19  | 19  | 19   | 19   |      |
| 5°  | 44   | 33  | 18  | 11   | 10   | 7    |
| 15° | 876  | 103 | 11  | 2    | 0    | 343  |
| 25° | 3686 | 167 | 4   | 0    | 0    | 1662 |
| 35° | 3232 | 69  | 1   | 0    | 0    | 1923 |
| 45° | 392  | 8   | 0   | 0    | 0    | 427  |
| 55° | 5    | 0   | 1   | 1    | 2    | 9    |
| 65° | 0    | 0   | 2   | 2    | 3    | 0    |
| 75° | 0    | 0   | 2   | 2    | 2    | 0    |
| 85° | 0    | 0   | 2   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1340505

CATALOG NUMBER: P3A09R209827DE010 E3CA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3  |
| 2.5°  | 29.0   | 29.0   | 28.5   | 28.5   | 28.0   | 28.5   | 27.5   | 28.0   | 28.0   | 27.5   | 24.9  |
| 5°    | 44.3   | 45.3   | 44.8   | 44.8   | 44.3   | 44.8   | 43.8   | 42.8   | 41.7   | 41.7   | 33.1  |
| 7.5°  | 72.8   | 72.3   | 71.3   | 71.8   | 70.2   | 69.2   | 68.2   | 67.7   | 64.6   | 63.1   | 43.3  |
| 10°   | 137.9  | 141.0  | 138.4  | 137.9  | 128.8  | 128.3  | 122.2  | 113.5  | 105.9  | 101.8  | 57.0  |
| 12.5° | 379.7  | 396.0  | 370.5  | 358.3  | 351.2  | 323.7  | 312.0  | 282.0  | 253.0  | 231.1  | 72.3  |
| 15°   | 876.4  | 916.6  | 865.2  | 868.8  | 826.0  | 747.7  | 679.0  | 619.9  | 550.2  | 479.9  | 103.3 |
| 17.5° | 1717.2 | 1684.7 | 1656.7 | 1609.3 | 1522.3 | 1407.3 | 1259.2 | 1109.0 | 979.2  | 843.3  | 144.0 |
| 20°   | 2573.3 | 2544.3 | 2480.7 | 2377.4 | 2266.4 | 2095.9 | 1919.8 | 1694.3 | 1476.0 | 1271.4 | 172.0 |
| 21°   | 2868.0 | 2858.3 | 2754.0 | 2690.4 | 2519.4 | 2356.5 | 2153.4 | 1912.2 | 1666.3 | 1424.1 | 176.6 |
| 22°   | 3131.1 | 3073.1 | 3017.1 | 2923.0 | 2753.0 | 2575.8 | 2349.9 | 2095.9 | 1829.2 | 1560.0 | 177.1 |
| 23°   | 3313.3 | 3286.9 | 3233.9 | 3127.6 | 2958.6 | 2750.4 | 2512.2 | 2246.5 | 1965.6 | 1656.2 | 175.6 |
| 24°   | 3514.9 | 3481.3 | 3403.9 | 3279.7 | 3109.2 | 2903.6 | 2631.8 | 2368.2 | 2062.8 | 1737.1 | 171.5 |
| 25°   | 3685.9 | 3633.5 | 3541.9 | 3408.0 | 3221.7 | 3009.5 | 2736.2 | 2446.6 | 2130.5 | 1791.5 | 167.4 |
| 26°   | 3796.8 | 3768.3 | 3650.8 | 3505.2 | 3305.7 | 3086.8 | 2807.9 | 2506.6 | 2174.3 | 1816.5 | 160.8 |
| 27°   | 3912.4 | 3860.0 | 3744.4 | 3577.0 | 3360.7 | 3137.2 | 2848.6 | 2535.6 | 2189.5 | 1817.5 | 152.7 |
| 28°   | 3978.5 | 3921.5 | 3790.7 | 3614.6 | 3396.3 | 3165.2 | 2872.1 | 2544.8 | 2186.5 | 1801.7 | 143.0 |
| 29°   | 3999.4 | 3927.6 | 3799.9 | 3620.7 | 3404.9 | 3167.3 | 2868.5 | 2531.6 | 2159.5 | 1763.0 | 131.8 |
| 30°   | 3960.7 | 3887.4 | 3766.3 | 3591.7 | 3377.5 | 3141.8 | 2835.4 | 2487.8 | 2111.7 | 1707.6 | 121.6 |
| 31°   | 3876.2 | 3814.1 | 3697.1 | 3522.0 | 3316.4 | 3082.3 | 2760.6 | 2416.0 | 2030.2 | 1633.3 | 109.9 |
| 32°   | 3764.8 | 3703.7 | 3588.7 | 3430.4 | 3221.2 | 2985.1 | 2658.3 | 2304.1 | 1934.6 | 1522.3 | 98.2  |
| 33°   | 3597.3 | 3562.2 | 3458.9 | 3307.7 | 3098.5 | 2846.1 | 2520.9 | 2170.2 | 1798.2 | 1399.1 | 88.1  |
| 34°   | 3427.8 | 3383.6 | 3311.3 | 3145.9 | 2920.9 | 2669.0 | 2341.7 | 1985.5 | 1631.7 | 1261.2 | 78.4  |
| 35°   | 3232.4 | 3205.9 | 3092.4 | 2960.1 | 2734.1 | 2476.6 | 2151.4 | 1805.8 | 1437.8 | 1107.5 | 68.7  |
| 36°   | 3043.1 | 3002.4 | 2873.1 | 2733.1 | 2513.8 | 2235.4 | 1914.2 | 1589.5 | 1270.4 | 963.5  | 58.5  |
| 37°   | 2768.2 | 2706.1 | 2614.0 | 2466.4 | 2209.9 | 1972.7 | 1679.6 | 1378.3 | 1064.2 | 807.7  | 47.3  |
| 38°   | 2445.0 | 2416.0 | 2288.3 | 2139.7 | 1927.4 | 1702.5 | 1412.4 | 1156.9 | 878.0  | 674.4  | 36.1  |
| 39°   | 2063.8 | 2063.3 | 1941.2 | 1833.8 | 1626.1 | 1423.6 | 1162.0 | 939.0  | 724.8  | 543.1  | 28.0  |
| 40°   | 1740.6 | 1680.6 | 1605.3 | 1470.4 | 1311.1 | 1139.1 | 910.0  | 734.9  | 562.4  | 437.7  | 21.9  |
| 42.5° | 912.6  | 907.5  | 863.2  | 761.9  | 672.8  | 571.6  | 454.5  | 378.7  | 296.2  | 241.2  | 13.7  |
| 45°   | 391.9  | 394.4  | 363.9  | 348.6  | 314.0  | 271.8  | 229.5  | 191.4  | 163.9  | 132.8  | 8.1   |
| 47.5° | 99.2   | 95.2   | 94.2   | 97.7   | 97.7   | 94.7   | 85.0   | 79.9   | 73.8   | 67.7   | 4.6   |
| 50°   | 42.8   | 41.7   | 40.7   | 40.7   | 38.2   | 36.6   | 34.1   | 31.0   | 28.5   | 25.4   | 2.0   |
| 52.5° | 15.8   | 16.3   | 16.8   | 16.3   | 16.3   | 15.8   | 15.8   | 15.3   | 13.7   | 12.2   | 1.0   |
| 55°   | 5.1    | 5.1    | 5.1    | 5.6    | 5.6    | 6.1    | 6.1    | 6.1    | 6.1    | 5.6    | 0.0   |
| 57.5° | 1.0    | 1.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 2.0    | 2.0    | 0.0   |
| 60°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0   |
| 62.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 65°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 67.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 72.5° | 0.5    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.5    | 0.0    | 0.5    | 0.5    | 0.0    | 0.5    | 0.5    | 0.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   |



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CATALOG NUMBER: P3A09R209827DE010 E3CA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 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: P1340505

CATALOG NUMBER: P3A09R209827DE010 E3CA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 19.3  | 19.3 | 19.3   | 19.3 | 19.3   | 19.3 |
| 2.5°  | 22.4  | 19.8 | 16.8   | 14.3 | 13.7   | 13.2 |
| 5°    | 24.9  | 18.3 | 13.7   | 11.2 | 10.2   | 9.7  |
| 7.5°  | 27.0  | 16.8 | 11.2   | 8.1  | 7.1    | 6.6  |
| 10°   | 28.0  | 14.8 | 9.2    | 6.1  | 4.6    | 4.6  |
| 12.5° | 28.5  | 12.7 | 6.6    | 4.1  | 2.5    | 2.5  |
| 15°   | 28.0  | 10.7 | 5.1    | 2.0  | 0.5    | 0.5  |
| 17.5° | 25.4  | 8.7  | 3.1    | 0.5  | 0.0    | 0.0  |
| 20°   | 21.9  | 7.1  | 2.0    | 0.0  | 0.0    | 0.0  |
| 21°   | 20.9  | 6.1  | 1.5    | 0.0  | 0.0    | 0.0  |
| 22°   | 19.3  | 5.6  | 1.0    | 0.0  | 0.0    | 0.0  |
| 23°   | 17.8  | 5.1  | 1.0    | 0.0  | 0.0    | 0.0  |
| 24°   | 16.3  | 4.6  | 0.5    | 0.0  | 0.0    | 0.0  |
| 25°   | 15.3  | 4.1  | 0.5    | 0.0  | 0.0    | 0.0  |
| 26°   | 14.3  | 3.6  | 0.5    | 0.0  | 0.0    | 0.0  |
| 27°   | 12.7  | 3.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 11.7  | 2.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 10.2  | 2.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 8.7   | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 7.1   | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 6.1   | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 5.1   | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 4.6   | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 4.1   | 1.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 3.1   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 2.5   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 2.0   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 1.5   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 1.5   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.5   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.5  | 0.0    | 0.0  | 0.5    | 0.5  |
| 47.5° | 0.0   | 0.5  | 0.0    | 0.0  | 0.5    | 1.0  |
| 50°   | 0.0   | 0.5  | 0.5    | 0.5  | 1.0    | 1.5  |
| 52.5° | 0.0   | 1.0  | 0.5    | 0.5  | 1.5    | 1.5  |
| 55°   | 0.5   | 1.0  | 0.5    | 1.0  | 2.0    | 2.0  |
| 57.5° | 0.5   | 1.0  | 1.0    | 1.5  | 2.0    | 2.5  |
| 60°   | 1.0   | 1.5  | 1.5    | 1.5  | 2.5    | 2.5  |
| 62.5° | 1.0   | 1.5  | 2.0    | 2.0  | 2.5    | 3.1  |
| 65°   | 1.0   | 2.0  | 2.0    | 2.0  | 2.5    | 3.1  |
| 67.5° | 1.5   | 2.0  | 2.0    | 2.0  | 2.5    | 3.1  |
| 70°   | 1.5   | 2.0  | 2.0    | 2.0  | 2.5    | 2.5  |
| 72.5° | 1.5   | 2.0  | 1.5    | 2.0  | 2.0    | 2.5  |
| 75°   | 1.5   | 2.0  | 1.5    | 1.5  | 2.0    | 2.0  |
| 77.5° | 1.0   | 1.5  | 1.5    | 1.0  | 1.5    | 1.5  |
| 80°   | 1.0   | 1.5  | 1.0    | 1.0  | 1.5    | 1.5  |



TEST NUMBER: P1340505

CATALOG NUMBER: P3A09R209827DE010 E3CA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 1.0   | 1.5 | 1.0    | 0.5  | 1.0    | 1.0  |
| 85°   | 1.0   | 1.5 | 1.0    | 0.5  | 0.5    | 0.5  |
| 87.5° | 1.0   | 1.5 | 1.0    | 0.5  | 0.0    | 0.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)