

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: P1340046

Luminaire Tested: P3A09R159840DE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R159840DE010 E3A301WMH  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

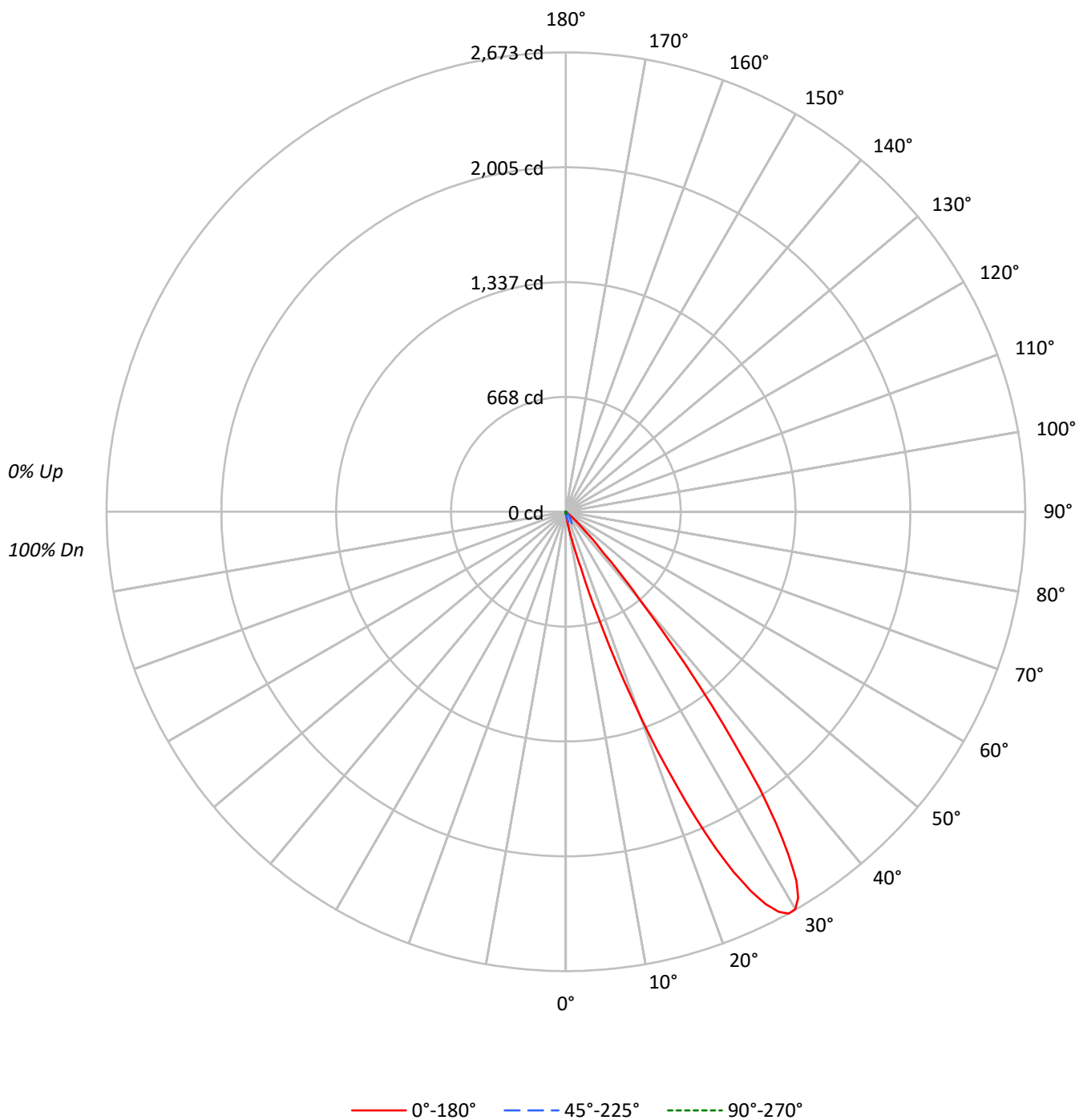
Lumens per Lamp: N/A  
Luminaire Lumens: 292.1 lumens  
Efficiency: N/A  
Efficacy: 26.6 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1340046

CATALOG NUMBER: P3A09R159840DE010 E3A301WMH

### Luminous Intensity Polar Plot



TEST NUMBER: P1340046

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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 | 98  | 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  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 52  | 48  | 70  | 59  | 52  | 47  | 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  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 2127   | 2127  | 2127 | 2127 | 2127 |
| 5°  | 4556   | 3368  | 2003 | 1057 | 880  |
| 10° | 20240  | 6390  | 1581 | 445  | 312  |
| 15° | 76550  | 14756 | 1090 | 204  | 136  |
| 20° | 294352 | 20815 | 653  | 70   | 70   |
| 25° | 559750 | 19525 | 339  | 0    | 0    |
| 30° | 676205 | 15749 | 152  | 0    | 0    |
| 35° | 527381 | 10734 | 80   | 0    | 0    |
| 40° | 192446 | 5296  | 86   | 0    | 86   |
| 45° | 49400  | 1582  | 93   | 0    | 186  |
| 50° | 8324   | 205   | 102  | 102  | 307  |
| 55° | 1070   | 0     | 229  | 344  | 535  |
| 60° | 132    | 132   | 395  | 482  | 746  |
| 65° | 156    | 156   | 571  | 726  | 882  |
| 70° | 192    | 192   | 705  | 705  | 898  |
| 75° | 254    | 254   | 932  | 763  | 932  |
| 80° | 0      | 379   | 1137 | 758  | 1137 |
| 85° | 0      | 755   | 2264 | 755  | 755  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49400 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.5       |
| 10°-20°   | 22.4   | 7.7       |
| 20°-30°   | 124.1  | 42.5      |
| 30°-40°   | 119.9  | 41.1      |
| 40°-50°   | 20.9   | 7.1       |
| 50°-60°   | 1.5    | 0.5       |
| 60°-70°   | 0.9    | 0.3       |
| 70°-80°   | 0.7    | 0.3       |
| 80°-90°   | 0.4    | 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°    | 147.8  | 50.6      |
| 0°-40°    | 267.7  | 91.7      |
| 0°-60°    | 290.1  | 99.3      |
| 0°-90°    | 292.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 292.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 10   | 10  | 10  | 10   | 10   |      |
| 5°  | 21   | 15  | 9   | 5    | 4    | 4    |
| 15° | 337  | 65  | 5   | 1    | 1    | 150  |
| 25° | 2314 | 81  | 1   | 0    | 0    | 1034 |
| 35° | 1970 | 40  | 0   | 0    | 0    | 1133 |
| 45° | 159  | 5   | 0   | 0    | 1    | 171  |
| 55° | 3    | 0   | 1   | 1    | 1    | 6    |
| 65° | 0    | 0   | 1   | 1    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1340046

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| 0°    | 9.7    | 9.7    | 9.7    | 9.7    | 9.7    | 9.7    | 9.7    | 9.7    | 9.7    | 9.7   | 9.7  |
| 2.5°  | 14.2   | 13.6   | 13.9   | 13.9   | 13.9   | 13.9   | 13.9   | 13.4   | 13.4   | 13.6  | 12.2 |
| 5°    | 20.7   | 20.7   | 20.5   | 20.7   | 20.7   | 20.5   | 19.9   | 19.6   | 19.6   | 19.0  | 15.3 |
| 7.5°  | 41.5   | 40.9   | 40.9   | 40.3   | 37.5   | 36.6   | 36.1   | 34.7   | 32.1   | 31.5  | 19.9 |
| 10°   | 90.9   | 91.2   | 89.2   | 86.6   | 86.3   | 82.1   | 80.7   | 78.1   | 73.3   | 68.5  | 28.7 |
| 12.5° | 165.0  | 161.3  | 156.5  | 156.8  | 148.6  | 145.7  | 139.2  | 132.1  | 124.7  | 117.0 | 47.2 |
| 15°   | 337.2  | 326.6  | 332.9  | 317.6  | 300.2  | 280.6  | 260.8  | 235.8  | 214.5  | 191.7 | 65.0 |
| 17.5° | 710.1  | 720.3  | 703.0  | 637.4  | 597.1  | 549.6  | 482.9  | 418.4  | 363.3  | 319.0 | 79.5 |
| 20°   | 1261.4 | 1276.5 | 1217.7 | 1160.6 | 1062.6 | 955.8  | 844.5  | 718.3  | 597.6  | 493.1 | 89.2 |
| 21°   | 1491.8 | 1482.7 | 1458.6 | 1367.1 | 1254.0 | 1130.2 | 993.9  | 854.7  | 708.4  | 572.6 | 90.0 |
| 22°   | 1714.5 | 1718.7 | 1662.5 | 1566.8 | 1449.2 | 1312.0 | 1145.5 | 973.7  | 816.1  | 637.4 | 88.6 |
| 23°   | 1936.3 | 1950.0 | 1875.5 | 1785.8 | 1637.8 | 1483.0 | 1290.4 | 1104.9 | 910.1  | 711.5 | 85.8 |
| 24°   | 2141.7 | 2132.3 | 2082.0 | 1969.0 | 1810.8 | 1629.6 | 1429.6 | 1204.6 | 987.3  | 774.9 | 83.5 |
| 25°   | 2313.5 | 2312.4 | 2233.4 | 2123.5 | 1942.6 | 1741.7 | 1521.3 | 1286.1 | 1053.5 | 817.8 | 80.7 |
| 26°   | 2454.1 | 2431.1 | 2368.9 | 2234.8 | 2056.2 | 1844.3 | 1596.6 | 1345.5 | 1090.7 | 839.3 | 77.8 |
| 27°   | 2562.6 | 2546.2 | 2462.6 | 2323.2 | 2136.6 | 1902.2 | 1644.9 | 1375.1 | 1107.8 | 846.4 | 74.1 |
| 28°   | 2635.6 | 2617.7 | 2528.8 | 2385.1 | 2180.9 | 1938.6 | 1670.5 | 1387.5 | 1107.8 | 839.6 | 70.7 |
| 29°   | 2673.4 | 2649.0 | 2560.4 | 2406.4 | 2191.1 | 1942.9 | 1664.2 | 1375.3 | 1090.4 | 818.6 | 66.8 |
| 30°   | 2670.6 | 2640.2 | 2547.3 | 2387.1 | 2160.7 | 1907.9 | 1629.3 | 1331.3 | 1051.2 | 787.4 | 62.2 |
| 31°   | 2624.6 | 2590.5 | 2486.8 | 2321.8 | 2097.9 | 1842.0 | 1563.4 | 1272.2 | 997.6  | 746.7 | 57.7 |
| 32°   | 2531.1 | 2487.9 | 2386.8 | 2222.3 | 2001.4 | 1743.5 | 1467.6 | 1181.0 | 917.2  | 687.4 | 52.8 |
| 33°   | 2378.9 | 2335.4 | 2226.9 | 2072.7 | 1870.7 | 1618.5 | 1340.7 | 1083.1 | 825.7  | 616.7 | 48.9 |
| 34°   | 2188.3 | 2148.5 | 2055.0 | 1899.7 | 1706.0 | 1460.3 | 1194.7 | 947.6  | 730.8  | 546.5 | 44.6 |
| 35°   | 1970.1 | 1906.8 | 1822.1 | 1699.1 | 1510.3 | 1263.1 | 1037.0 | 821.5  | 633.1  | 472.9 | 40.1 |
| 36°   | 1675.0 | 1686.4 | 1596.6 | 1446.1 | 1289.6 | 1095.8 | 878.8  | 684.8  | 529.5  | 403.1 | 36.1 |
| 37°   | 1413.4 | 1395.5 | 1338.4 | 1222.0 | 1085.6 | 893.3  | 736.5  | 580.6  | 445.4  | 340.9 | 31.8 |
| 38°   | 1140.1 | 1144.1 | 1088.2 | 998.7  | 863.5  | 734.5  | 592.8  | 476.9  | 372.7  | 290.0 | 27.8 |
| 39°   | 892.5  | 889.3  | 874.3  | 791.3  | 668.9  | 584.3  | 480.3  | 395.4  | 310.5  | 244.6 | 23.6 |
| 40°   | 672.3  | 677.4  | 642.2  | 592.2  | 520.9  | 451.3  | 382.6  | 315.3  | 256.8  | 206.2 | 18.5 |
| 42.5° | 326.9  | 334.9  | 311.6  | 298.8  | 267.3  | 240.0  | 202.5  | 165.3  | 140.6  | 121.6 | 8.2  |
| 45°   | 159.3  | 154.8  | 152.8  | 146.6  | 139.2  | 124.4  | 110.2  | 94.6   | 82.7   | 71.3  | 5.1  |
| 47.5° | 81.5   | 79.2   | 79.2   | 76.7   | 74.1   | 69.3   | 62.2   | 57.1   | 51.4   | 44.3  | 2.0  |
| 50°   | 24.4   | 24.1   | 23.9   | 24.1   | 23.3   | 24.1   | 24.7   | 25.0   | 22.7   | 22.4  | 0.6  |
| 52.5° | 9.7    | 9.9    | 9.7    | 10.5   | 10.5   | 10.2   | 10.5   | 10.2   | 9.9    | 8.8   | 0.0  |
| 55°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 3.1    | 3.4    | 3.1    | 3.4   | 0.0  |
| 57.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   | 0.0  |
| 60°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.0   | 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    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 72.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 75°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3   | 0.3  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.3  |



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**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   | 0.3 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 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: P1340046

CATALOG NUMBER: P3A09R159840DE010 E3A301WMH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 9.7   | 9.7 | 9.7    | 9.7  | 9.7    | 9.7  |
| 2.5°  | 11.4  | 9.9 | 8.2    | 6.8  | 6.2    | 6.0  |
| 5°    | 12.2  | 9.1 | 6.2    | 4.8  | 4.3    | 4.0  |
| 7.5°  | 13.1  | 8.2 | 4.8    | 3.4  | 2.6    | 2.3  |
| 10°   | 13.6  | 7.1 | 3.7    | 2.0  | 1.4    | 1.4  |
| 12.5° | 13.6  | 5.7 | 2.6    | 1.1  | 0.9    | 0.9  |
| 15°   | 13.4  | 4.8 | 1.7    | 0.9  | 0.6    | 0.6  |
| 17.5° | 13.1  | 3.7 | 1.1    | 0.6  | 0.3    | 0.6  |
| 20°   | 12.2  | 2.8 | 0.6    | 0.3  | 0.3    | 0.3  |
| 21°   | 11.9  | 2.6 | 0.6    | 0.3  | 0.3    | 0.3  |
| 22°   | 11.4  | 2.3 | 0.3    | 0.0  | 0.3    | 0.3  |
| 23°   | 10.8  | 1.7 | 0.3    | 0.0  | 0.0    | 0.0  |
| 24°   | 9.9   | 1.4 | 0.3    | 0.0  | 0.0    | 0.0  |
| 25°   | 9.4   | 1.4 | 0.3    | 0.0  | 0.0    | 0.0  |
| 26°   | 8.8   | 0.9 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 8.0   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 7.4   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 6.5   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 5.7   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 4.5   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 3.7   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.7   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.4   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.9   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 37°   | 0.9   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 38°   | 0.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 39°   | 0.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 40°   | 0.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 42.5° | 0.0   | 0.3 | 0.0    | 0.0  | 0.3    | 0.6  |
| 45°   | 0.0   | 0.3 | 0.0    | 0.0  | 0.3    | 0.6  |
| 47.5° | 0.0   | 0.3 | 0.0    | 0.0  | 0.6    | 0.6  |
| 50°   | 0.0   | 0.3 | 0.3    | 0.3  | 0.6    | 0.9  |
| 52.5° | 0.0   | 0.6 | 0.3    | 0.6  | 0.9    | 1.1  |
| 55°   | 0.3   | 0.6 | 0.6    | 0.9  | 1.1    | 1.4  |
| 57.5° | 0.3   | 0.9 | 0.9    | 1.1  | 1.4    | 1.4  |
| 60°   | 0.6   | 0.9 | 1.1    | 1.1  | 1.7    | 1.7  |
| 62.5° | 0.6   | 1.1 | 1.1    | 1.1  | 1.7    | 1.7  |
| 65°   | 0.6   | 1.1 | 1.1    | 1.4  | 1.7    | 1.7  |
| 67.5° | 0.6   | 1.1 | 1.1    | 1.1  | 1.4    | 1.7  |
| 70°   | 0.6   | 1.1 | 0.9    | 1.1  | 1.4    | 1.4  |
| 72.5° | 0.6   | 1.1 | 0.9    | 0.9  | 1.1    | 1.4  |
| 75°   | 0.6   | 1.1 | 0.9    | 0.9  | 1.1    | 1.1  |
| 77.5° | 0.6   | 0.9 | 0.9    | 0.6  | 0.9    | 0.9  |
| 80°   | 0.6   | 0.9 | 0.6    | 0.6  | 0.9    | 0.9  |



TEST NUMBER: P1340046

CATALOG NUMBER: P3A09R159840DE010 E3A301WMH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.6   | 0.9 | 0.6    | 0.3  | 0.6    | 0.6  |
| 85°   | 0.6   | 0.9 | 0.6    | 0.3  | 0.3    | 0.3  |
| 87.5° | 0.6   | 0.9 | 0.3    | 0.0  | 0.0    | 0.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)