

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: P1346070

Luminaire Tested: P3A13R409740DE010 E3CA451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1346070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R409740DE010 E3CA451MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

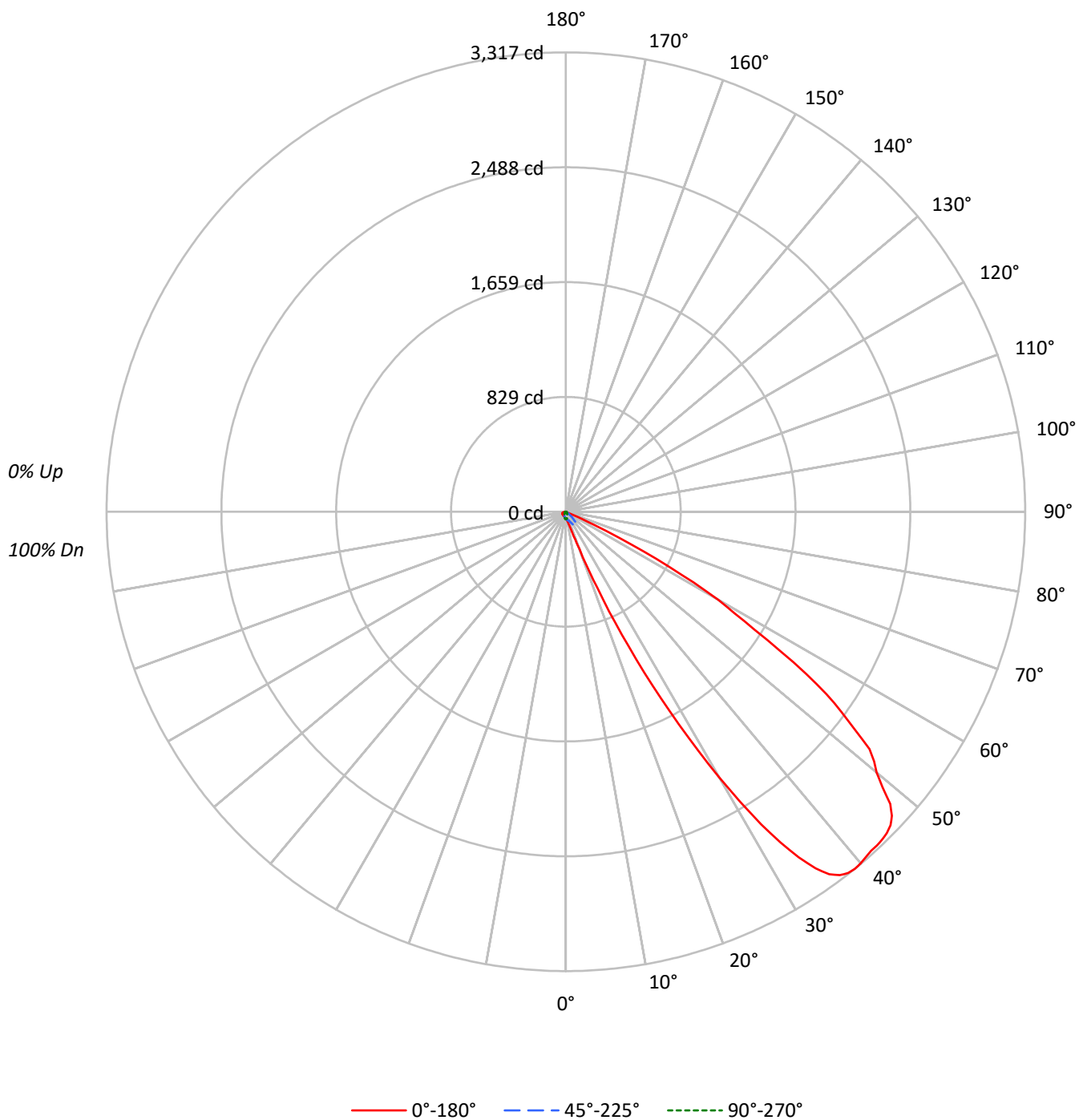
Lumens per Lamp: N/A  
Luminaire Lumens: 1025.0 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1346070

CATALOG NUMBER: P3A13R409740DE010 E3CA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1346070

CATALOG NUMBER: P3A13R409740DE010 E3CA451MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    | 0  |
| 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 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 72  |    |    |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |    |    |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 26  | 24  |    |    |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  |    |    |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  | 31  | 24  | 20  | 30  | 24  | 19  | 18  |    |    |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 11556   | 11556 | 11556 | 11556 | 11556 |
| 5°  | 12855   | 12437 | 11402 | 10368 | 10147 |
| 10° | 15520   | 13204 | 10487 | 9441  | 9218  |
| 15° | 25426   | 14325 | 8967  | 8331  | 8559  |
| 20° | 67206   | 16918 | 7467  | 7467  | 8121  |
| 25° | 259176  | 20953 | 5928  | 6823  | 7960  |
| 30° | 559149  | 27878 | 4760  | 6685  | 7875  |
| 35° | 841625  | 33006 | 4042  | 6558  | 8058  |
| 40° | 948205  | 33148 | 3492  | 6727  | 8616  |
| 45° | 1016726 | 25677 | 3225  | 7008  | 9334  |
| 50° | 999336  | 16068 | 2900  | 7403  | 10268 |
| 55° | 879147  | 7914  | 2867  | 8296  | 11507 |
| 60° | 556491  | 1667  | 3289  | 9078  | 12806 |
| 65° | 113786  | 467   | 3424  | 9755  | 14165 |
| 70° | 2436    | 577   | 3590  | 10835 | 16285 |
| 75° | 2372    | 1610  | 3982  | 11946 | 18385 |
| 80° | 2399    | 1137  | 4799  | 13133 | 21341 |
| 85° | 2264    | 2264  | 9561  | 14089 | 23650 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1035091 cd/sqm

TEST NUMBER: P1346070

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.9    | 0.5       |
| 10°-20°   | 16.2   | 1.6       |
| 20°-30°   | 79.6   | 7.8       |
| 30°-40°   | 259.0  | 25.3      |
| 40°-50°   | 357.0  | 34.8      |
| 50°-60°   | 248.7  | 24.3      |
| 60°-70°   | 47.1   | 4.6       |
| 70°-80°   | 8.5    | 0.8       |
| 80°-90°   | 3.9    | 0.4       |
| 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°    | 100.8  | 9.8       |
| 0°-40°    | 359.7  | 35.1      |
| 0°-60°    | 965.4  | 94.2      |
| 0°-90°    | 1025.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1025.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 53   | 53  | 53  | 53   | 53   |      |
| 5°  | 58   | 56  | 52  | 47   | 46   | 6    |
| 15° | 112  | 63  | 40  | 37   | 38   | 41   |
| 25° | 1071 | 87  | 24  | 28   | 33   | 552  |
| 35° | 3144 | 123 | 15  | 24   | 30   | 1900 |
| 45° | 3279 | 83  | 10  | 23   | 30   | 2493 |
| 55° | 2300 | 21  | 8   | 22   | 30   | 1965 |
| 65° | 219  | 1   | 7   | 19   | 27   | 388  |
| 75° | 3    | 2   | 5   | 14   | 22   | 3    |
| 85° | 1    | 1   | 4   | 6    | 9    | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1346070

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0°    | 52.7   | 52.7   | 52.7   | 52.7   | 52.7   | 52.7   | 52.7  | 52.7  | 52.7  | 52.7  | 52.7 |
| 2.5°  | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6   | 54.6  | 54.6  | 54.6  | 53.7  | 52.7 |
| 5°    | 58.4   | 58.4   | 58.4   | 58.4   | 57.4   | 57.4   | 57.4  | 56.5  | 56.5  | 54.6  | 51.8 |
| 7.5°  | 62.1   | 62.1   | 62.1   | 62.1   | 61.2   | 60.2   | 59.3  | 59.3  | 58.4  | 53.7  | 49.9 |
| 10°   | 69.7   | 69.7   | 68.7   | 67.8   | 66.8   | 65.0   | 64.0  | 62.1  | 59.3  | 52.7  | 47.1 |
| 12.5° | 84.7   | 82.8   | 81.9   | 80.0   | 77.2   | 73.4   | 69.7  | 66.8  | 60.2  | 50.8  | 44.2 |
| 15°   | 112.0  | 110.1  | 106.4  | 100.7  | 95.1   | 87.5   | 81.0  | 74.4  | 63.1  | 48.0  | 39.5 |
| 17.5° | 160.0  | 154.4  | 148.7  | 139.3  | 125.2  | 112.0  | 97.9  | 85.7  | 66.8  | 45.2  | 35.8 |
| 20°   | 288.0  | 284.3  | 250.4  | 224.0  | 181.7  | 151.6  | 123.3 | 102.6 | 72.5  | 42.4  | 32.0 |
| 22.5° | 594.0  | 554.4  | 498.9  | 408.5  | 318.2  | 234.4  | 170.4 | 129.0 | 78.1  | 38.6  | 28.2 |
| 25°   | 1071.2 | 1009.1 | 889.5  | 715.4  | 528.1  | 373.7  | 246.6 | 168.5 | 86.6  | 34.8  | 24.5 |
| 27.5° | 1621.9 | 1558.8 | 1373.4 | 1133.3 | 827.4  | 563.9  | 352.1 | 223.1 | 97.9  | 31.1  | 21.7 |
| 30°   | 2208.3 | 2154.7 | 1919.4 | 1587.1 | 1166.3 | 789.8  | 471.6 | 278.6 | 110.1 | 27.3  | 18.8 |
| 31°   | 2444.6 | 2375.9 | 2121.7 | 1767.8 | 1325.4 | 883.0  | 519.6 | 302.2 | 114.8 | 26.4  | 17.9 |
| 32°   | 2662.1 | 2583.9 | 2320.4 | 1941.0 | 1454.3 | 983.7  | 572.3 | 322.9 | 118.6 | 24.5  | 16.9 |
| 33°   | 2849.4 | 2758.1 | 2503.9 | 2104.8 | 1596.5 | 1077.8 | 626.9 | 342.6 | 121.4 | 22.6  | 16.0 |
| 34°   | 3008.5 | 2929.4 | 2656.4 | 2269.5 | 1722.6 | 1168.2 | 680.6 | 362.4 | 123.3 | 21.7  | 15.1 |
| 35°   | 3144.0 | 3072.5 | 2802.3 | 2394.7 | 1845.9 | 1255.7 | 729.5 | 381.2 | 123.3 | 19.8  | 15.1 |
| 36°   | 3235.3 | 3173.2 | 2928.4 | 2522.7 | 1949.5 | 1330.1 | 770.9 | 398.2 | 123.3 | 17.9  | 14.1 |
| 37°   | 3285.2 | 3225.0 | 3011.3 | 2628.2 | 2051.1 | 1403.5 | 808.6 | 411.4 | 122.4 | 16.9  | 13.2 |
| 38°   | 3310.6 | 3257.9 | 3072.5 | 2713.8 | 2121.7 | 1456.2 | 841.5 | 421.7 | 121.4 | 15.1  | 13.2 |
| 39°   | 3317.2 | 3273.0 | 3111.1 | 2776.0 | 2190.5 | 1508.9 | 865.1 | 427.4 | 118.6 | 14.1  | 12.2 |
| 40°   | 3312.5 | 3273.9 | 3131.8 | 2831.5 | 2243.2 | 1550.4 | 882.0 | 429.2 | 115.8 | 12.2  | 12.2 |
| 41°   | 3303.1 | 3273.0 | 3146.8 | 2870.1 | 2285.5 | 1576.7 | 888.6 | 425.5 | 112.0 | 10.4  | 11.3 |
| 42°   | 3294.6 | 3261.7 | 3153.4 | 2896.4 | 2314.7 | 1589.9 | 887.7 | 417.9 | 106.4 | 9.4   | 11.3 |
| 43°   | 3294.6 | 3257.0 | 3154.4 | 2913.4 | 2328.8 | 1590.8 | 876.4 | 403.8 | 98.8  | 8.5   | 10.4 |
| 44°   | 3289.0 | 3254.1 | 3159.1 | 2924.7 | 2332.6 | 1582.4 | 858.5 | 388.8 | 90.4  | 7.5   | 10.4 |
| 45°   | 3278.6 | 3241.9 | 3158.1 | 2925.6 | 2326.0 | 1561.6 | 829.3 | 369.0 | 82.8  | 5.6   | 10.4 |
| 46°   | 3258.8 | 3225.9 | 3149.7 | 2919.0 | 2306.2 | 1531.5 | 794.5 | 349.2 | 74.4  | 4.7   | 9.4  |
| 47°   | 3219.3 | 3193.9 | 3127.1 | 2896.4 | 2276.1 | 1487.3 | 753.1 | 326.6 | 67.8  | 3.8   | 9.4  |
| 48°   | 3151.5 | 3133.7 | 3088.5 | 2846.6 | 2218.7 | 1432.7 | 708.8 | 302.2 | 61.2  | 3.8   | 9.4  |
| 49°   | 3027.3 | 3013.2 | 2986.8 | 2766.5 | 2145.3 | 1365.9 | 660.8 | 274.9 | 54.6  | 2.8   | 9.4  |
| 50°   | 2929.4 | 2914.3 | 2860.7 | 2631.9 | 2039.8 | 1281.1 | 608.1 | 247.6 | 47.1  | 1.9   | 8.5  |
| 51°   | 2864.4 | 2840.0 | 2755.2 | 2475.7 | 1886.4 | 1168.2 | 550.7 | 220.3 | 39.5  | 1.9   | 8.5  |
| 52°   | 2782.5 | 2745.8 | 2640.4 | 2335.4 | 1746.1 | 1055.2 | 488.5 | 193.0 | 34.8  | 1.9   | 8.5  |
| 53°   | 2611.2 | 2598.0 | 2493.6 | 2184.8 | 1605.9 | 947.0  | 424.5 | 170.4 | 30.1  | 1.9   | 8.5  |
| 54°   | 2461.6 | 2441.8 | 2299.6 | 1975.8 | 1453.4 | 826.5  | 358.6 | 150.6 | 25.4  | 1.9   | 8.5  |
| 55°   | 2299.6 | 2261.1 | 2134.9 | 1799.8 | 1274.5 | 715.4  | 295.6 | 129.9 | 20.7  | 1.9   | 7.5  |
| 56°   | 2095.4 | 2061.5 | 1925.9 | 1611.5 | 1109.8 | 602.4  | 247.6 | 106.4 | 16.0  | 1.9   | 7.5  |
| 57°   | 1846.9 | 1815.8 | 1711.3 | 1380.0 | 938.5  | 492.3  | 201.4 | 85.7  | 12.2  | 1.9   | 7.5  |
| 58°   | 1606.8 | 1572.0 | 1452.5 | 1157.8 | 757.8  | 390.6  | 168.5 | 69.7  | 9.4   | 1.9   | 7.5  |
| 59°   | 1422.3 | 1375.3 | 1220.9 | 972.4  | 593.0  | 296.5  | 133.7 | 55.5  | 6.6   | 1.9   | 7.5  |
| 60°   | 1268.9 | 1230.3 | 1070.3 | 809.5  | 465.0  | 218.4  | 98.8  | 42.4  | 3.8   | 1.9   | 7.5  |
| 62.5° | 735.2  | 724.8  | 580.8  | 417.0  | 219.3  | 101.7  | 48.9  | 19.8  | 1.9   | 2.8   | 7.5  |
| 65°   | 219.3  | 191.1  | 148.7  | 88.5   | 56.5   | 33.9   | 17.9  | 6.6   | 0.9   | 2.8   | 6.6  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 3.8 | 1.9 | 0.9 | 2.8   | 6.6 |
| 70°   | 3.8 | 2.8 | 2.8 | 2.8 | 2.8 | 1.9 | 1.9 | 0.9 | 0.9 | 2.8   | 5.6 |
| 72.5° | 2.8 | 2.8 | 2.8 | 2.8 | 1.9 | 1.9 | 1.9 | 0.9 | 1.9 | 2.8   | 4.7 |
| 75°   | 2.8 | 1.9 | 1.9 | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 1.9 | 2.8   | 4.7 |
| 77.5° | 1.9 | 1.9 | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.9 | 2.8   | 4.7 |
| 80°   | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.8   | 3.8 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.8   | 3.8 |
| 85°   | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.8   | 3.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 2.8   | 2.8 |
| 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: P1346070

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 52.7   | 52.7 | 52.7   | 52.7 |
| 2.5°  | 50.8   | 49.9 | 48.9   | 48.9 |
| 5°    | 48.9   | 47.1 | 47.1   | 46.1 |
| 7.5°  | 46.1   | 44.2 | 44.2   | 44.2 |
| 10°   | 43.3   | 42.4 | 42.4   | 41.4 |
| 12.5° | 39.5   | 39.5 | 39.5   | 39.5 |
| 15°   | 36.7   | 36.7 | 37.7   | 37.7 |
| 17.5° | 32.9   | 33.9 | 35.8   | 36.7 |
| 20°   | 30.1   | 32.0 | 33.9   | 34.8 |
| 22.5° | 28.2   | 30.1 | 32.9   | 33.9 |
| 25°   | 25.4   | 28.2 | 32.0   | 32.9 |
| 27.5° | 23.5   | 27.3 | 30.1   | 32.0 |
| 30°   | 21.7   | 26.4 | 29.2   | 31.1 |
| 31°   | 21.7   | 25.4 | 29.2   | 31.1 |
| 32°   | 20.7   | 24.5 | 29.2   | 30.1 |
| 33°   | 20.7   | 24.5 | 29.2   | 30.1 |
| 34°   | 19.8   | 24.5 | 28.2   | 30.1 |
| 35°   | 19.8   | 24.5 | 28.2   | 30.1 |
| 36°   | 18.8   | 23.5 | 28.2   | 30.1 |
| 37°   | 18.8   | 23.5 | 28.2   | 30.1 |
| 38°   | 17.9   | 23.5 | 28.2   | 30.1 |
| 39°   | 17.9   | 23.5 | 28.2   | 30.1 |
| 40°   | 17.9   | 23.5 | 28.2   | 30.1 |
| 41°   | 16.9   | 23.5 | 28.2   | 30.1 |
| 42°   | 16.9   | 23.5 | 28.2   | 30.1 |
| 43°   | 16.9   | 22.6 | 28.2   | 30.1 |
| 44°   | 16.9   | 22.6 | 28.2   | 30.1 |
| 45°   | 16.0   | 22.6 | 28.2   | 30.1 |
| 46°   | 16.0   | 22.6 | 28.2   | 30.1 |
| 47°   | 16.0   | 22.6 | 28.2   | 30.1 |
| 48°   | 16.0   | 22.6 | 28.2   | 30.1 |
| 49°   | 16.0   | 22.6 | 28.2   | 30.1 |
| 50°   | 15.1   | 21.7 | 28.2   | 30.1 |
| 51°   | 15.1   | 21.7 | 28.2   | 30.1 |
| 52°   | 15.1   | 21.7 | 28.2   | 30.1 |
| 53°   | 15.1   | 21.7 | 28.2   | 30.1 |
| 54°   | 14.1   | 21.7 | 28.2   | 30.1 |
| 55°   | 14.1   | 21.7 | 28.2   | 30.1 |
| 56°   | 14.1   | 21.7 | 28.2   | 29.2 |
| 57°   | 14.1   | 21.7 | 27.3   | 29.2 |
| 58°   | 14.1   | 20.7 | 27.3   | 29.2 |
| 59°   | 14.1   | 20.7 | 27.3   | 29.2 |
| 60°   | 14.1   | 20.7 | 27.3   | 29.2 |
| 62.5° | 13.2   | 20.7 | 26.4   | 28.2 |
| 65°   | 12.2   | 18.8 | 26.4   | 27.3 |





TEST NUMBER: P1346070

CATALOG NUMBER: P3A13R409740DE010 E3CA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 12.2   | 17.9 | 24.5   | 26.4 |
| 70°   | 11.3   | 16.9 | 23.5   | 25.4 |
| 72.5° | 9.4    | 16.0 | 21.7   | 23.5 |
| 75°   | 8.5    | 14.1 | 19.8   | 21.7 |
| 77.5° | 7.5    | 12.2 | 17.9   | 18.8 |
| 80°   | 6.6    | 10.4 | 15.1   | 16.9 |
| 82.5° | 4.7    | 7.5  | 12.2   | 13.2 |
| 85°   | 3.8    | 5.6  | 8.5    | 9.4  |
| 87.5° | 2.8    | 2.8  | 4.7    | 4.7  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)