

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: P1345925

Luminaire Tested: P3A13R409027DE010 E3CA451MMS

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345925  
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: P3A13R409027DE010 E3CA451MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

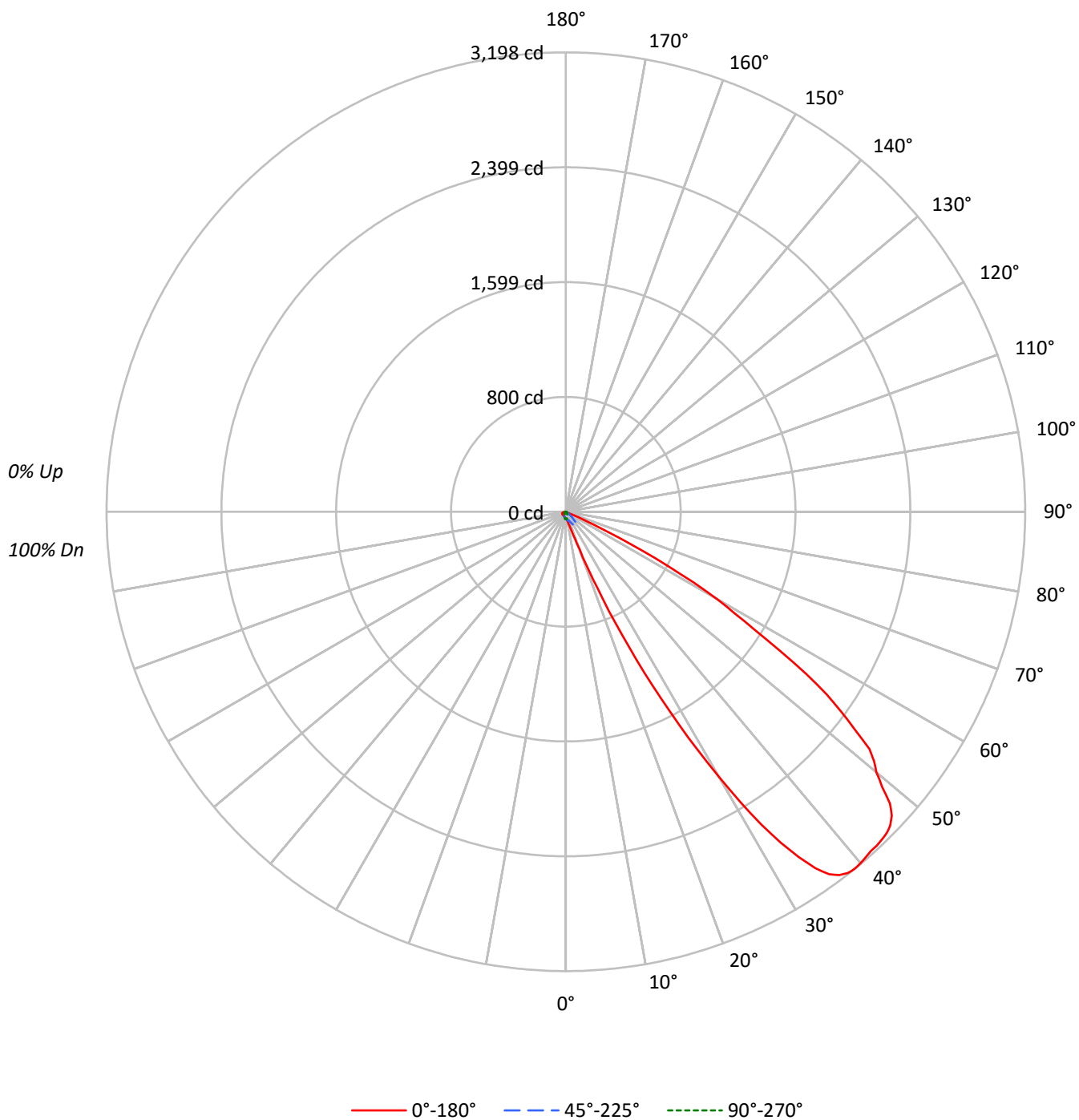
Lumens per Lamp: N/A  
Luminaire Lumens: 988.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1345925

CATALOG NUMBER: P3A13R409027DE010 E3CA451MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1345925

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

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 11139  | 11139 | 11139 | 11139 | 11139 |
| 5°  | 12393  | 11974 | 10984 | 9993  | 9795  |
| 10° | 14941  | 12736 | 10109 | 9085  | 8884  |
| 15° | 24518  | 13803 | 8649  | 8036  | 8241  |
| 20° | 64779  | 16311 | 7187  | 7187  | 7841  |
| 25° | 249837 | 20203 | 5710  | 6581  | 7694  |
| 30° | 538969 | 26890 | 4583  | 6431  | 7571  |
| 35° | 811241 | 31829 | 3882  | 6318  | 7763  |
| 40° | 913970 | 31946 | 3378  | 6498  | 8301  |
| 45° | 980040 | 24747 | 3101  | 6760  | 8993  |
| 50° | 963243 | 15488 | 2797  | 7130  | 9893  |
| 55° | 847415 | 7646  | 2791  | 7990  | 11087 |
| 60° | 536404 | 1579  | 3201  | 8771  | 12324 |
| 65° | 109687 | 467   | 3321  | 9391  | 13646 |
| 70° | 2308   | 577   | 3462  | 10450 | 15708 |
| 75° | 2288   | 1525  | 3813  | 11522 | 17707 |
| 80° | 2273   | 1137  | 4546  | 12628 | 20583 |
| 85° | 2264   | 2264  | 9057  | 13586 | 22895 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 997729 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.7    | 0.5       |
| 10°-20°   | 15.7   | 1.6       |
| 20°-30°   | 76.8   | 7.8       |
| 30°-40°   | 249.6  | 25.3      |
| 40°-50°   | 344.1  | 34.8      |
| 50°-60°   | 239.7  | 24.3      |
| 60°-70°   | 45.4   | 4.6       |
| 70°-80°   | 8.2    | 0.8       |
| 80°-90°   | 3.8    | 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°    | 97.1   | 9.8       |
| 0°-40°    | 346.8  | 35.1      |
| 0°-60°    | 930.5  | 94.2      |
| 0°-90°    | 988.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 988.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 51   | 51  | 51  | 51   | 51   |      |
| 5°  | 56   | 54  | 50  | 45   | 44   | 6    |
| 15° | 108  | 61  | 38  | 35   | 36   | 39   |
| 25° | 1033 | 84  | 24  | 27   | 32   | 532  |
| 35° | 3030 | 119 | 14  | 24   | 29   | 1831 |
| 45° | 3160 | 80  | 10  | 22   | 29   | 2403 |
| 55° | 2217 | 20  | 7   | 21   | 29   | 1895 |
| 65° | 211  | 1   | 6   | 18   | 26   | 374  |
| 75° | 3    | 2   | 4   | 14   | 21   | 3    |
| 85° | 1    | 1   | 4   | 5    | 9    | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0°    | 50.8   | 50.8   | 50.8   | 50.8   | 50.8   | 50.8   | 50.8  | 50.8  | 50.8  | 50.8  | 50.8 |
| 2.5°  | 52.6   | 52.6   | 52.6   | 52.6   | 52.6   | 52.6   | 52.6  | 52.6  | 52.6  | 51.7  | 50.8 |
| 5°    | 56.3   | 56.3   | 56.3   | 56.3   | 55.3   | 55.3   | 55.3  | 54.4  | 54.4  | 52.6  | 49.9 |
| 7.5°  | 59.9   | 59.9   | 59.9   | 59.9   | 59.0   | 58.1   | 57.2  | 57.2  | 56.3  | 51.7  | 48.1 |
| 10°   | 67.1   | 67.1   | 66.2   | 65.3   | 64.4   | 62.6   | 61.7  | 59.9  | 57.2  | 50.8  | 45.4 |
| 12.5° | 81.7   | 79.8   | 78.9   | 77.1   | 74.4   | 70.8   | 67.1  | 64.4  | 58.1  | 49.0  | 42.6 |
| 15°   | 108.0  | 106.2  | 102.5  | 97.1   | 91.6   | 84.4   | 78.0  | 71.7  | 60.8  | 46.3  | 38.1 |
| 17.5° | 154.2  | 148.8  | 143.4  | 134.3  | 120.7  | 108.0  | 94.4  | 82.6  | 64.4  | 43.6  | 34.5 |
| 20°   | 277.6  | 274.0  | 241.4  | 215.9  | 175.1  | 146.1  | 118.9 | 98.9  | 69.9  | 40.8  | 30.8 |
| 22.5° | 572.5  | 534.4  | 480.9  | 393.8  | 306.7  | 225.9  | 164.2 | 124.3 | 75.3  | 37.2  | 27.2 |
| 25°   | 1032.6 | 972.7  | 857.4  | 689.6  | 509.0  | 360.2  | 237.7 | 162.4 | 83.5  | 33.6  | 23.6 |
| 27.5° | 1563.3 | 1502.6 | 1323.8 | 1092.4 | 797.6  | 543.5  | 339.3 | 215.0 | 94.4  | 29.9  | 20.9 |
| 30°   | 2128.6 | 2076.9 | 1850.1 | 1529.8 | 1124.2 | 761.3  | 454.6 | 268.6 | 106.2 | 26.3  | 18.1 |
| 31°   | 2356.4 | 2290.1 | 2045.1 | 1704.0 | 1277.5 | 851.1  | 500.9 | 291.3 | 110.7 | 25.4  | 17.2 |
| 32°   | 2566.0 | 2490.7 | 2236.6 | 1870.9 | 1401.8 | 948.2  | 551.7 | 311.2 | 114.3 | 23.6  | 16.3 |
| 33°   | 2746.5 | 2658.5 | 2413.5 | 2028.8 | 1538.8 | 1038.9 | 604.3 | 330.3 | 117.0 | 21.8  | 15.4 |
| 34°   | 2899.9 | 2823.6 | 2560.5 | 2187.6 | 1660.4 | 1126.0 | 656.0 | 349.3 | 118.9 | 20.9  | 14.5 |
| 35°   | 3030.5 | 2961.6 | 2701.2 | 2308.3 | 1779.3 | 1210.4 | 703.2 | 367.5 | 118.9 | 19.1  | 14.5 |
| 36°   | 3118.5 | 3058.6 | 2822.7 | 2431.7 | 1879.1 | 1282.1 | 743.1 | 383.8 | 118.9 | 17.2  | 13.6 |
| 37°   | 3166.6 | 3108.5 | 2902.6 | 2533.3 | 1977.1 | 1352.8 | 779.4 | 396.5 | 118.0 | 16.3  | 12.7 |
| 38°   | 3191.1 | 3140.3 | 2961.6 | 2615.9 | 2045.1 | 1403.7 | 811.2 | 406.5 | 117.0 | 14.5  | 12.7 |
| 39°   | 3197.5 | 3154.8 | 2998.8 | 2675.7 | 2111.4 | 1454.5 | 833.8 | 411.9 | 114.3 | 13.6  | 11.8 |
| 40°   | 3192.9 | 3155.7 | 3018.7 | 2729.3 | 2162.2 | 1494.4 | 850.2 | 413.7 | 111.6 | 11.8  | 11.8 |
| 41°   | 3183.9 | 3154.8 | 3033.2 | 2766.5 | 2203.0 | 1519.8 | 856.5 | 410.1 | 108.0 | 10.0  | 10.9 |
| 42°   | 3175.7 | 3143.9 | 3039.6 | 2791.9 | 2231.2 | 1532.5 | 855.6 | 402.9 | 102.5 | 9.1   | 10.9 |
| 43°   | 3175.7 | 3139.4 | 3040.5 | 2808.2 | 2244.8 | 1533.4 | 844.7 | 389.2 | 95.3  | 8.2   | 10.0 |
| 44°   | 3170.2 | 3136.7 | 3045.0 | 2819.1 | 2248.4 | 1525.2 | 827.5 | 374.7 | 87.1  | 7.3   | 10.0 |
| 45°   | 3160.3 | 3124.9 | 3044.1 | 2820.0 | 2242.0 | 1505.3 | 799.4 | 355.7 | 79.8  | 5.4   | 10.0 |
| 46°   | 3141.2 | 3109.5 | 3036.0 | 2813.7 | 2223.0 | 1476.2 | 765.8 | 336.6 | 71.7  | 4.5   | 9.1  |
| 47°   | 3103.1 | 3078.6 | 3014.2 | 2791.9 | 2193.9 | 1433.6 | 725.9 | 314.8 | 65.3  | 3.6   | 9.1  |
| 48°   | 3037.8 | 3020.5 | 2977.0 | 2743.8 | 2138.6 | 1381.0 | 683.2 | 291.3 | 59.0  | 3.6   | 9.1  |
| 49°   | 2918.0 | 2904.4 | 2879.0 | 2666.7 | 2067.8 | 1316.6 | 637.0 | 264.9 | 52.6  | 2.7   | 9.1  |
| 50°   | 2823.6 | 2809.1 | 2757.4 | 2536.9 | 1966.2 | 1234.9 | 586.1 | 238.6 | 45.4  | 1.8   | 8.2  |
| 51°   | 2761.0 | 2737.4 | 2655.8 | 2386.3 | 1818.3 | 1126.0 | 530.8 | 212.3 | 38.1  | 1.8   | 8.2  |
| 52°   | 2682.1 | 2646.7 | 2545.1 | 2251.1 | 1683.1 | 1017.1 | 470.9 | 186.0 | 33.6  | 1.8   | 8.2  |
| 53°   | 2517.0 | 2504.3 | 2403.5 | 2105.9 | 1547.9 | 912.8  | 409.2 | 164.2 | 29.0  | 1.8   | 8.2  |
| 54°   | 2372.7 | 2353.6 | 2216.6 | 1904.5 | 1400.9 | 796.6  | 345.7 | 145.2 | 24.5  | 1.8   | 8.2  |
| 55°   | 2216.6 | 2179.4 | 2057.8 | 1734.8 | 1228.5 | 689.6  | 284.9 | 125.2 | 20.0  | 1.8   | 7.3  |
| 56°   | 2019.7 | 1987.1 | 1856.4 | 1553.4 | 1069.8 | 580.7  | 238.6 | 102.5 | 15.4  | 1.8   | 7.3  |
| 57°   | 1780.2 | 1750.3 | 1649.5 | 1330.2 | 904.6  | 474.5  | 194.2 | 82.6  | 11.8  | 1.8   | 7.3  |
| 58°   | 1548.8 | 1515.3 | 1400.0 | 1116.0 | 730.4  | 376.5  | 162.4 | 67.1  | 9.1   | 1.8   | 7.3  |
| 59°   | 1371.0 | 1325.6 | 1176.8 | 937.3  | 571.6  | 285.8  | 128.8 | 53.5  | 6.4   | 1.8   | 7.3  |
| 60°   | 1223.1 | 1185.9 | 1031.6 | 780.3  | 448.2  | 210.5  | 95.3  | 40.8  | 3.6   | 1.8   | 7.3  |
| 62.5° | 708.6  | 698.7  | 559.8  | 402.0  | 211.4  | 98.0   | 47.2  | 19.1  | 1.8   | 2.7   | 7.3  |
| 65°   | 211.4  | 184.2  | 143.4  | 85.3   | 54.4   | 32.7   | 17.2  | 6.4   | 0.9   | 2.7   | 6.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 3.6 | 1.8 | 0.9 | 2.7   | 6.4 |
| 70°   | 3.6 | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 | 1.8 | 0.9 | 0.9 | 2.7   | 5.4 |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 | 1.8 | 1.8 | 0.9 | 1.8 | 2.7   | 4.5 |
| 75°   | 2.7 | 1.8 | 1.8 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 1.8 | 2.7   | 4.5 |
| 77.5° | 1.8 | 1.8 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 2.7   | 4.5 |
| 80°   | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.7   | 3.6 |
| 82.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.7   | 3.6 |
| 85°   | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.7   | 3.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 2.7   | 2.7 |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 50.8   | 50.8 | 50.8   | 50.8 |
| 2.5°  | 49.0   | 48.1 | 47.2   | 47.2 |
| 5°    | 47.2   | 45.4 | 45.4   | 44.5 |
| 7.5°  | 44.5   | 42.6 | 42.6   | 42.6 |
| 10°   | 41.7   | 40.8 | 40.8   | 39.9 |
| 12.5° | 38.1   | 38.1 | 38.1   | 38.1 |
| 15°   | 35.4   | 35.4 | 36.3   | 36.3 |
| 17.5° | 31.8   | 32.7 | 34.5   | 35.4 |
| 20°   | 29.0   | 30.8 | 32.7   | 33.6 |
| 22.5° | 27.2   | 29.0 | 31.8   | 32.7 |
| 25°   | 24.5   | 27.2 | 30.8   | 31.8 |
| 27.5° | 22.7   | 26.3 | 29.0   | 30.8 |
| 30°   | 20.9   | 25.4 | 28.1   | 29.9 |
| 31°   | 20.9   | 24.5 | 28.1   | 29.9 |
| 32°   | 20.0   | 23.6 | 28.1   | 29.0 |
| 33°   | 20.0   | 23.6 | 28.1   | 29.0 |
| 34°   | 19.1   | 23.6 | 27.2   | 29.0 |
| 35°   | 19.1   | 23.6 | 27.2   | 29.0 |
| 36°   | 18.1   | 22.7 | 27.2   | 29.0 |
| 37°   | 18.1   | 22.7 | 27.2   | 29.0 |
| 38°   | 17.2   | 22.7 | 27.2   | 29.0 |
| 39°   | 17.2   | 22.7 | 27.2   | 29.0 |
| 40°   | 17.2   | 22.7 | 27.2   | 29.0 |
| 41°   | 16.3   | 22.7 | 27.2   | 29.0 |
| 42°   | 16.3   | 22.7 | 27.2   | 29.0 |
| 43°   | 16.3   | 21.8 | 27.2   | 29.0 |
| 44°   | 16.3   | 21.8 | 27.2   | 29.0 |
| 45°   | 15.4   | 21.8 | 27.2   | 29.0 |
| 46°   | 15.4   | 21.8 | 27.2   | 29.0 |
| 47°   | 15.4   | 21.8 | 27.2   | 29.0 |
| 48°   | 15.4   | 21.8 | 27.2   | 29.0 |
| 49°   | 15.4   | 21.8 | 27.2   | 29.0 |
| 50°   | 14.5   | 20.9 | 27.2   | 29.0 |
| 51°   | 14.5   | 20.9 | 27.2   | 29.0 |
| 52°   | 14.5   | 20.9 | 27.2   | 29.0 |
| 53°   | 14.5   | 20.9 | 27.2   | 29.0 |
| 54°   | 13.6   | 20.9 | 27.2   | 29.0 |
| 55°   | 13.6   | 20.9 | 27.2   | 29.0 |
| 56°   | 13.6   | 20.9 | 27.2   | 28.1 |
| 57°   | 13.6   | 20.9 | 26.3   | 28.1 |
| 58°   | 13.6   | 20.0 | 26.3   | 28.1 |
| 59°   | 13.6   | 20.0 | 26.3   | 28.1 |
| 60°   | 13.6   | 20.0 | 26.3   | 28.1 |
| 62.5° | 12.7   | 20.0 | 25.4   | 27.2 |
| 65°   | 11.8   | 18.1 | 25.4   | 26.3 |



TEST NUMBER: P1345925

CATALOG NUMBER: P3A13R409027DE010 E3CA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 11.8   | 17.2 | 23.6   | 25.4 |
| 70°   | 10.9   | 16.3 | 22.7   | 24.5 |
| 72.5° | 9.1    | 15.4 | 20.9   | 22.7 |
| 75°   | 8.2    | 13.6 | 19.1   | 20.9 |
| 77.5° | 7.3    | 11.8 | 17.2   | 18.1 |
| 80°   | 6.4    | 10.0 | 14.5   | 16.3 |
| 82.5° | 4.5    | 7.3  | 11.8   | 12.7 |
| 85°   | 3.6    | 5.4  | 8.2    | 9.1  |
| 87.5° | 2.7    | 2.7  | 4.5    | 4.5  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)