

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: P1343596

Luminaire Tested: P3A13R159840DE010 E3A451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R159840DE010 E3A451MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

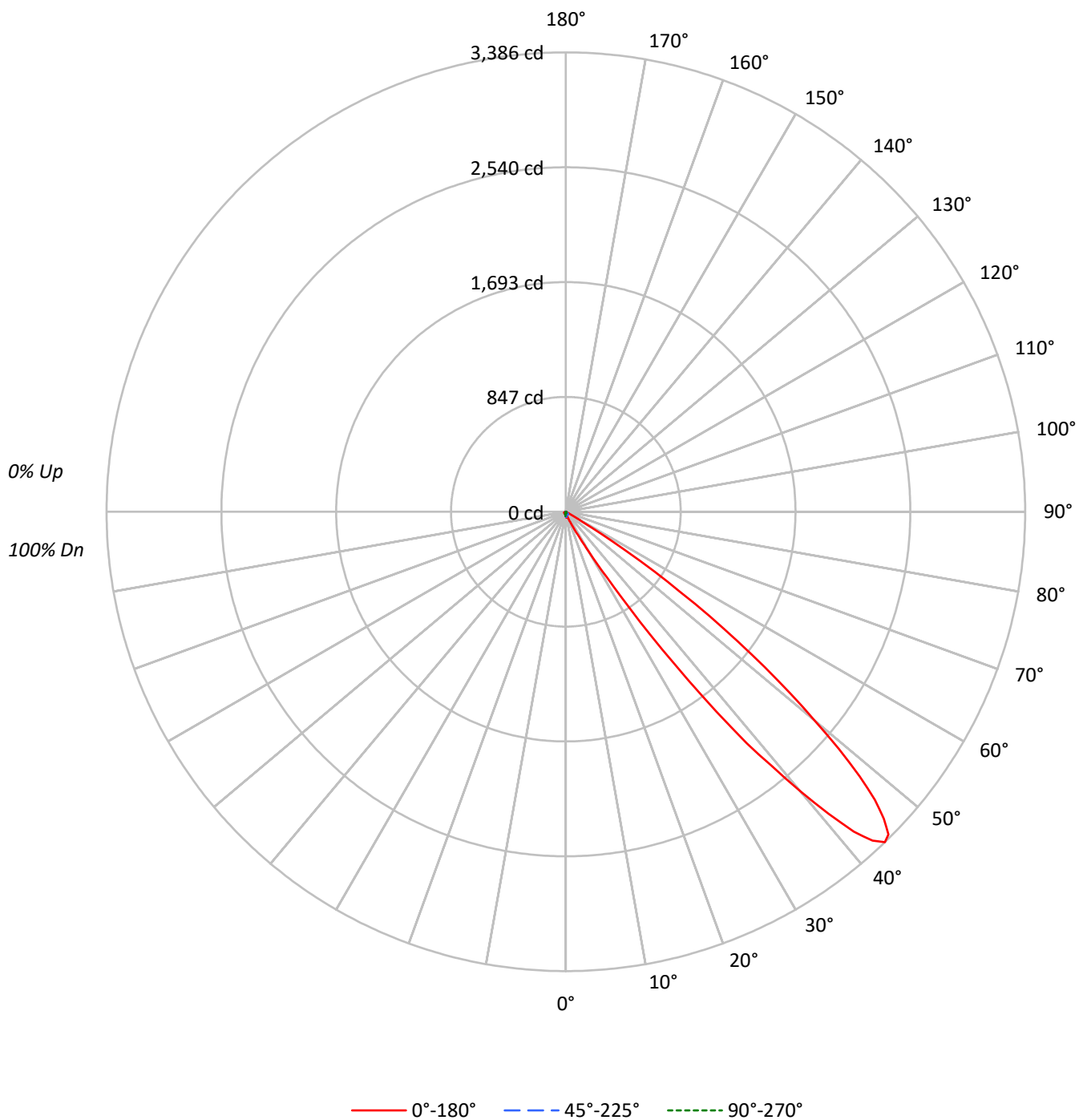
Lumens per Lamp: N/A  
Luminaire Lumens: 378.0 lumens  
Efficiency: N/A  
Efficacy: 26.1 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1343596

CATALOG NUMBER: P3A13R159840DE010 E3A451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1343596

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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 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  | 24  |    |    |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  | 17  |    |    |

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

|     | 0°      | 45°  | 90°  | 135° | 180° |
|-----|---------|------|------|------|------|
| 0°  | 7346    | 7346 | 7346 | 7346 | 7346 |
| 5°  | 9135    | 8122 | 6648 | 5811 | 5723 |
| 10° | 8973    | 6969 | 5121 | 4542 | 4609 |
| 15° | 7446    | 4972 | 3678 | 3768 | 4018 |
| 20° | 12928   | 3967 | 2824 | 3244 | 3687 |
| 25° | 28816   | 4742 | 2274 | 3000 | 3460 |
| 30° | 86165   | 5824 | 2000 | 2962 | 3621 |
| 35° | 331751  | 6558 | 1820 | 3025 | 3828 |
| 40° | 769985  | 5725 | 1718 | 3120 | 4093 |
| 45° | 1042930 | 4311 | 1520 | 3380 | 4435 |
| 50° | 817747  | 2559 | 1535 | 3616 | 4878 |
| 55° | 392512  | 1147 | 1453 | 3900 | 5314 |
| 60° | 35874   | 175  | 1316 | 4122 | 5964 |
| 65° | 3891    | 0    | 1193 | 4307 | 6434 |
| 70° | 962     | 0    | 1475 | 4616 | 6988 |
| 75° | 932     | 339  | 1949 | 5083 | 7964 |
| 80° | 1010    | 1010 | 2399 | 5177 | 8587 |
| 85° | 1006    | 1006 | 3774 | 4780 | 9561 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1042930 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.9    | 0.8       |
| 10°-20°   | 6.0    | 1.6       |
| 20°-30°   | 14.3   | 3.8       |
| 30°-40°   | 78.2   | 20.7      |
| 40°-50°   | 189.3  | 50.1      |
| 50°-60°   | 75.5   | 20.0      |
| 60°-70°   | 6.5    | 1.7       |
| 70°-80°   | 3.7    | 1.0       |
| 80°-90°   | 1.6    | 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°    | 23.1   | 6.1       |
| 0°-40°    | 101.3  | 26.8      |
| 0°-60°    | 366.2  | 96.9      |
| 0°-90°    | 378.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 378.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 34   | 34  | 34  | 34   | 34   |      |
| 5°  | 42   | 37  | 30  | 26   | 26   | 4    |
| 15° | 33   | 22  | 16  | 17   | 18   | 11   |
| 25° | 119  | 20  | 9   | 12   | 14   | 72   |
| 35° | 1239 | 24  | 7   | 11   | 14   | 876  |
| 45° | 3363 | 14  | 5   | 11   | 14   | 2372 |
| 55° | 1027 | 3   | 4   | 10   | 14   | 956  |
| 65° | 8    | 0   | 2   | 8    | 12   | 19   |
| 75° | 1    | 0   | 2   | 6    | 9    | 1    |
| 85° | 0    | 0   | 2   | 2    | 4    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0°    | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   | 33.5  | 33.5  | 33.5  | 33.5 |
| 2.5°  | 37.7   | 37.7   | 38.1   | 37.7   | 37.7   | 37.7   | 37.7   | 37.3  | 37.3  | 37.3  | 36.2 |
| 5°    | 41.5   | 41.5   | 41.5   | 41.5   | 41.1   | 41.1   | 41.1   | 40.7  | 40.7  | 40.3  | 36.9 |
| 7.5°  | 43.0   | 43.0   | 42.6   | 42.6   | 42.2   | 42.2   | 41.8   | 41.5  | 41.1  | 40.7  | 35.4 |
| 10°   | 40.3   | 40.3   | 40.3   | 40.0   | 40.0   | 39.6   | 39.2   | 38.8  | 38.4  | 37.7  | 31.3 |
| 12.5° | 35.8   | 35.8   | 36.2   | 35.8   | 35.4   | 35.1   | 34.3   | 33.9  | 33.5  | 32.8  | 26.0 |
| 15°   | 32.8   | 32.8   | 32.8   | 32.4   | 32.0   | 31.3   | 30.9   | 30.2  | 29.8  | 28.6  | 21.9 |
| 17.5° | 41.8   | 41.8   | 41.5   | 40.7   | 39.2   | 38.1   | 36.2   | 34.7  | 32.8  | 30.5  | 18.8 |
| 20°   | 55.4   | 55.4   | 54.7   | 53.9   | 52.0   | 50.1   | 47.1   | 44.5  | 41.5  | 38.8  | 17.0 |
| 22.5° | 80.3   | 81.4   | 79.1   | 76.5   | 73.9   | 69.3   | 65.2   | 61.1  | 55.8  | 51.3  | 17.3 |
| 25°   | 119.1  | 120.2  | 119.1  | 113.1  | 108.2  | 102.1  | 94.2   | 85.9  | 76.9  | 68.6  | 19.6 |
| 27.5° | 193.0  | 193.7  | 191.8  | 177.1  | 169.2  | 153.4  | 139.5  | 125.9 | 110.8 | 95.7  | 21.5 |
| 30°   | 340.3  | 340.7  | 328.7  | 299.3  | 273.3  | 238.6  | 209.2  | 180.9 | 157.2 | 133.0 | 23.0 |
| 31°   | 448.1  | 437.6  | 412.0  | 376.5  | 335.1  | 288.3  | 248.0  | 211.4 | 176.0 | 150.0 | 23.4 |
| 32°   | 569.1  | 567.6  | 525.0  | 463.6  | 408.2  | 349.8  | 289.1  | 242.3 | 201.6 | 166.2 | 23.7 |
| 33°   | 729.3  | 730.1  | 663.0  | 590.6  | 499.8  | 421.4  | 341.8  | 277.8 | 228.8 | 185.4 | 24.5 |
| 34°   | 979.6  | 920.8  | 842.0  | 744.0  | 620.4  | 502.4  | 399.1  | 318.9 | 253.3 | 203.9 | 24.5 |
| 35°   | 1239.3 | 1180.1 | 1093.4 | 944.9  | 775.3  | 610.2  | 467.4  | 363.0 | 282.7 | 223.9 | 24.5 |
| 36°   | 1530.2 | 1480.1 | 1348.9 | 1159.3 | 943.0  | 712.0  | 539.7  | 413.8 | 311.7 | 242.0 | 24.1 |
| 37°   | 1844.6 | 1771.1 | 1625.6 | 1418.7 | 1129.2 | 855.2  | 627.9  | 464.3 | 340.7 | 261.6 | 23.4 |
| 38°   | 2163.8 | 2097.5 | 1913.9 | 1663.3 | 1351.6 | 1006.3 | 716.1  | 513.0 | 367.5 | 276.3 | 22.2 |
| 39°   | 2405.8 | 2369.6 | 2187.5 | 1907.5 | 1529.1 | 1149.5 | 806.9  | 565.0 | 395.7 | 291.0 | 21.1 |
| 40°   | 2689.9 | 2631.5 | 2458.9 | 2112.5 | 1739.0 | 1295.4 | 895.9  | 611.0 | 419.1 | 302.7 | 20.0 |
| 41°   | 2949.3 | 2875.4 | 2657.5 | 2322.8 | 1907.1 | 1426.6 | 980.3  | 658.4 | 438.0 | 309.4 | 19.2 |
| 42°   | 3171.6 | 3085.7 | 2858.0 | 2503.0 | 2047.7 | 1531.4 | 1047.8 | 692.4 | 455.7 | 315.1 | 18.1 |
| 43°   | 3315.6 | 3241.4 | 3017.5 | 2638.3 | 2167.9 | 1627.5 | 1110.7 | 727.8 | 466.6 | 318.9 | 16.6 |
| 44°   | 3385.7 | 3310.7 | 3094.0 | 2723.1 | 2241.8 | 1685.1 | 1151.4 | 752.3 | 478.7 | 323.8 | 15.5 |
| 45°   | 3363.1 | 3287.0 | 3077.4 | 2724.6 | 2264.8 | 1705.9 | 1168.8 | 763.2 | 485.1 | 328.3 | 13.9 |
| 46°   | 3259.4 | 3205.9 | 2994.9 | 2653.8 | 2221.1 | 1683.6 | 1159.0 | 754.9 | 482.8 | 328.3 | 12.4 |
| 47°   | 3114.0 | 3052.9 | 2852.0 | 2532.0 | 2115.2 | 1626.3 | 1119.4 | 729.7 | 468.9 | 320.7 | 10.9 |
| 48°   | 2915.7 | 2863.7 | 2652.6 | 2338.7 | 1952.7 | 1501.6 | 1030.1 | 688.6 | 447.0 | 306.0 | 9.4  |
| 49°   | 2667.0 | 2594.6 | 2398.2 | 2091.4 | 1740.9 | 1324.4 | 912.9  | 619.2 | 412.0 | 285.3 | 8.3  |
| 50°   | 2397.1 | 2307.8 | 2156.3 | 1843.8 | 1521.9 | 1135.6 | 758.7  | 523.5 | 362.6 | 258.2 | 7.5  |
| 51°   | 2132.9 | 2042.1 | 1897.7 | 1632.0 | 1288.2 | 942.3  | 612.1  | 418.0 | 298.5 | 220.9 | 6.4  |
| 52°   | 1858.9 | 1782.7 | 1621.1 | 1412.3 | 1102.8 | 763.6  | 509.9  | 353.5 | 248.0 | 185.4 | 5.3  |
| 53°   | 1586.0 | 1534.0 | 1380.2 | 1168.8 | 886.1  | 623.8  | 416.5  | 302.7 | 216.3 | 158.7 | 4.1  |
| 54°   | 1312.7 | 1255.8 | 1139.0 | 950.5  | 714.2  | 492.2  | 353.2  | 253.3 | 187.7 | 138.3 | 3.8  |
| 55°   | 1026.7 | 997.3  | 889.5  | 724.8  | 541.2  | 392.7  | 286.4  | 217.8 | 157.2 | 115.7 | 3.0  |
| 56°   | 790.7  | 757.6  | 659.2  | 525.8  | 402.2  | 307.6  | 231.8  | 177.9 | 133.0 | 96.9  | 2.3  |
| 57°   | 517.9  | 483.9  | 418.7  | 367.1  | 292.9  | 224.3  | 177.1  | 140.2 | 108.2 | 80.3  | 1.9  |
| 58°   | 306.0  | 275.1  | 265.0  | 226.1  | 195.2  | 152.3  | 130.8  | 104.4 | 79.9  | 63.3  | 1.1  |
| 59°   | 140.6  | 142.8  | 127.0  | 119.1  | 108.2  | 96.9   | 79.5   | 69.7  | 54.7  | 45.6  | 0.8  |
| 60°   | 81.8   | 77.3   | 75.4   | 67.5   | 59.9   | 53.1   | 47.9   | 42.2  | 34.3  | 29.4  | 0.4  |
| 62.5° | 27.9   | 26.8   | 27.5   | 24.9   | 23.4   | 22.6   | 20.7   | 17.7  | 14.7  | 12.1  | 0.0  |
| 65°   | 7.5    | 7.5    | 7.2    | 6.8    | 6.4    | 6.0    | 5.7    | 4.9   | 4.5   | 3.8   | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 2.6 | 2.6  | 2.3 | 2.3  | 1.9 | 1.9   | 1.5 | 1.5   | 1.1 | 1.1   | 0.0 |
| 70°   | 1.5 | 1.5  | 1.5 | 1.1  | 1.1 | 1.1   | 0.8 | 0.8   | 0.8 | 0.4   | 0.0 |
| 72.5° | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 |
| 75°   | 1.1 | 1.1  | 1.1 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.4 |
| 77.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 |
| 80°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.4   | 0.8 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 33.5  | 33.5 | 33.5   | 33.5 | 33.5   | 33.5 |
| 2.5°  | 34.7  | 33.2 | 31.3   | 30.2 | 29.8   | 29.4 |
| 5°    | 33.2  | 30.2 | 27.9   | 26.4 | 26.0   | 26.0 |
| 7.5°  | 29.8  | 26.4 | 24.1   | 23.4 | 23.0   | 23.0 |
| 10°   | 26.0  | 23.0 | 21.1   | 20.4 | 20.7   | 20.7 |
| 12.5° | 21.9  | 19.2 | 18.5   | 18.5 | 18.8   | 19.2 |
| 15°   | 17.7  | 16.2 | 16.2   | 16.6 | 17.3   | 17.7 |
| 17.5° | 14.7  | 13.9 | 14.3   | 15.1 | 15.8   | 16.6 |
| 20°   | 12.1  | 12.1 | 12.8   | 13.9 | 15.1   | 15.8 |
| 22.5° | 10.2  | 10.6 | 11.7   | 12.8 | 14.3   | 15.1 |
| 25°   | 8.7   | 9.4  | 10.6   | 12.4 | 13.9   | 14.3 |
| 27.5° | 7.5   | 8.7  | 10.2   | 12.1 | 13.6   | 14.3 |
| 30°   | 6.4   | 7.9  | 9.8    | 11.7 | 13.6   | 14.3 |
| 31°   | 6.0   | 7.5  | 9.4    | 11.7 | 13.6   | 14.3 |
| 32°   | 5.7   | 7.5  | 9.4    | 11.7 | 13.6   | 14.3 |
| 33°   | 5.3   | 7.2  | 9.4    | 11.3 | 13.6   | 14.3 |
| 34°   | 4.9   | 7.2  | 9.4    | 11.7 | 13.6   | 14.3 |
| 35°   | 4.5   | 6.8  | 9.0    | 11.3 | 13.2   | 14.3 |
| 36°   | 4.1   | 6.8  | 9.0    | 11.3 | 13.6   | 14.3 |
| 37°   | 3.8   | 6.8  | 9.0    | 11.3 | 13.2   | 14.3 |
| 38°   | 3.8   | 6.4  | 8.7    | 11.3 | 13.2   | 14.3 |
| 39°   | 3.4   | 6.0  | 8.7    | 11.3 | 13.2   | 14.3 |
| 40°   | 3.0   | 6.0  | 8.3    | 10.9 | 13.2   | 14.3 |
| 41°   | 2.6   | 5.7  | 8.3    | 10.9 | 13.2   | 14.3 |
| 42°   | 2.3   | 5.7  | 8.3    | 10.9 | 13.2   | 14.3 |
| 43°   | 1.9   | 5.3  | 7.9    | 10.9 | 13.2   | 14.3 |
| 44°   | 1.9   | 5.3  | 7.9    | 10.9 | 13.2   | 14.3 |
| 45°   | 1.5   | 4.9  | 7.5    | 10.9 | 13.2   | 14.3 |
| 46°   | 1.5   | 4.9  | 7.5    | 10.6 | 13.2   | 14.3 |
| 47°   | 1.1   | 4.9  | 7.5    | 10.6 | 13.2   | 14.3 |
| 48°   | 1.1   | 4.5  | 7.5    | 10.6 | 13.2   | 14.3 |
| 49°   | 0.8   | 4.5  | 7.5    | 10.6 | 13.2   | 14.3 |
| 50°   | 0.8   | 4.5  | 7.2    | 10.6 | 13.2   | 14.3 |
| 51°   | 0.8   | 4.5  | 7.2    | 10.6 | 13.2   | 14.3 |
| 52°   | 0.8   | 4.1  | 7.2    | 10.6 | 13.2   | 14.3 |
| 53°   | 0.8   | 4.1  | 7.2    | 10.6 | 13.2   | 14.3 |
| 54°   | 0.8   | 4.1  | 6.8    | 10.6 | 13.2   | 14.3 |
| 55°   | 0.8   | 3.8  | 6.8    | 10.2 | 13.2   | 13.9 |
| 56°   | 0.8   | 3.8  | 6.8    | 10.2 | 13.2   | 13.9 |
| 57°   | 0.8   | 3.8  | 6.4    | 10.2 | 13.2   | 13.9 |
| 58°   | 0.8   | 3.4  | 6.4    | 9.8  | 12.8   | 13.9 |
| 59°   | 0.8   | 3.4  | 6.0    | 9.8  | 12.8   | 13.6 |
| 60°   | 0.8   | 3.0  | 6.0    | 9.4  | 12.4   | 13.6 |
| 62.5° | 0.8   | 2.6  | 5.3    | 9.0  | 12.1   | 12.8 |
| 65°   | 0.8   | 2.3  | 4.9    | 8.3  | 11.7   | 12.4 |





TEST NUMBER: P1343596

CATALOG NUMBER: P3A13R159840DE010 E3A451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 2.3 | 4.5    | 7.9  | 10.9   | 12.1 |
| 70°   | 0.8   | 2.3 | 4.1    | 7.2  | 10.6   | 10.9 |
| 72.5° | 1.1   | 2.3 | 3.8    | 6.8  | 9.8    | 10.2 |
| 75°   | 1.5   | 2.3 | 3.4    | 6.0  | 9.0    | 9.4  |
| 77.5° | 1.5   | 2.3 | 3.0    | 5.3  | 7.9    | 8.3  |
| 80°   | 1.5   | 1.9 | 2.6    | 4.1  | 6.4    | 6.8  |
| 82.5° | 1.5   | 1.9 | 1.9    | 3.4  | 4.9    | 5.3  |
| 85°   | 1.1   | 1.5 | 1.5    | 1.9  | 3.4    | 3.8  |
| 87.5° | 1.1   | 1.5 | 0.8    | 1.1  | 1.5    | 1.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)