

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: P1333996

Luminaire Tested: P3A02R159027DE010 E3CA451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1333996  
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: P3A02R159027DE010 E3CA451MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

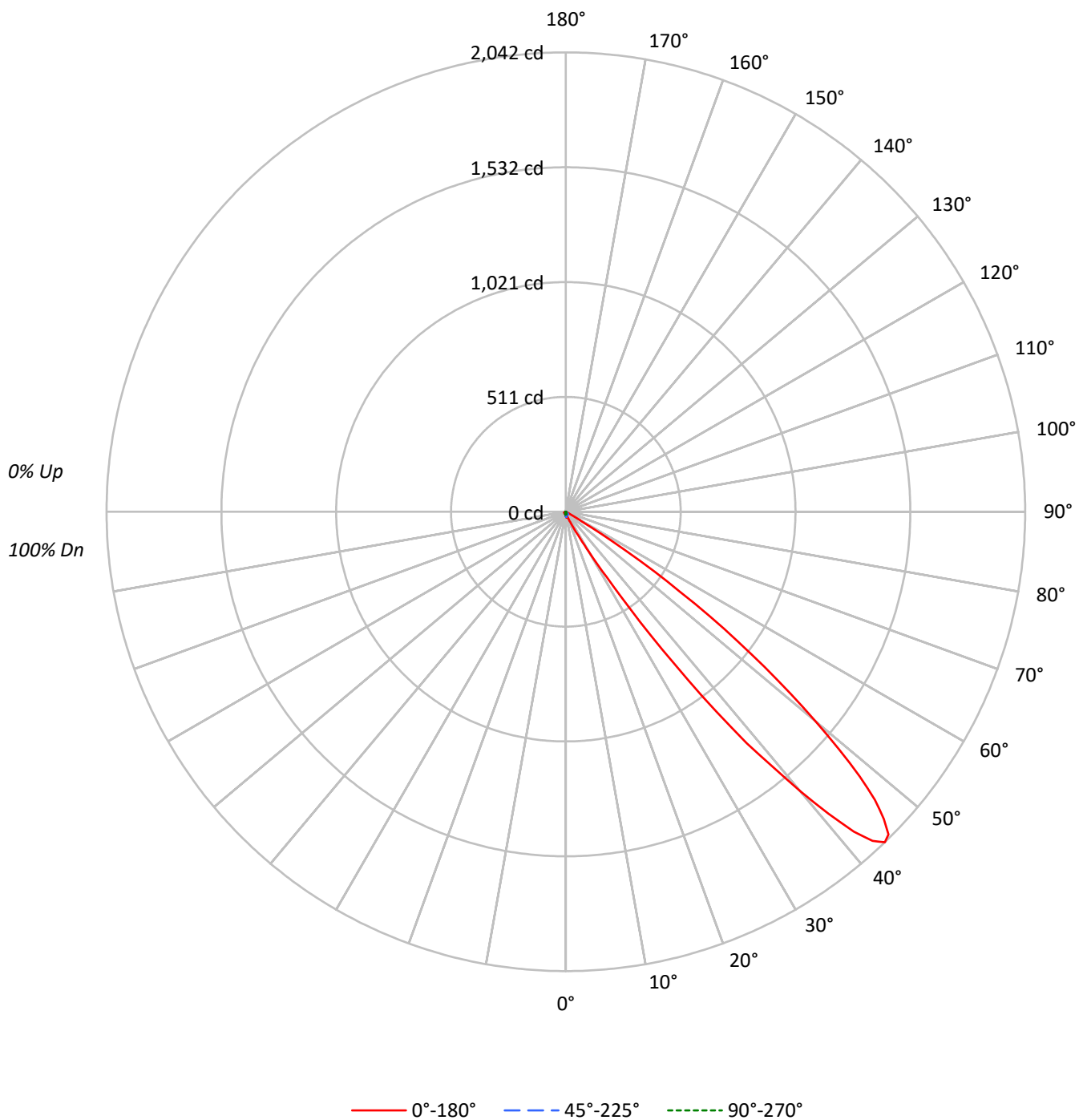
Lumens per Lamp: N/A  
Luminaire Lumens: 228.0 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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: P1333996

CATALOG NUMBER: P3A02R159027DE010 E3CA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1333996

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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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  |  | 107 | 104 | 100 | 97  |  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  | 90  | 89  |
| 2   | 101 | 93  | 87  | 81  |  | 98  | 91  | 85  | 80  |  | 87  | 83  | 78  |  | 84  | 80  | 77  |  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  |  | 89  | 79  | 72  | 66  |  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  | 67  | 63  |
| 4   | 83  | 71  | 62  | 55  |  | 80  | 69  | 61  | 55  |  | 67  | 60  | 54  |  | 64  | 58  | 53  |  | 62  | 57  | 53  |
| 5   | 75  | 62  | 52  | 46  |  | 73  | 61  | 52  | 45  |  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 54  | 49  | 44  |
| 6   | 68  | 54  | 45  | 38  |  | 66  | 53  | 44  | 38  |  | 51  | 43  | 37  |  | 49  | 42  | 37  |  | 48  | 42  | 37  |
| 7   | 62  | 47  | 38  | 32  |  | 60  | 47  | 38  | 32  |  | 45  | 37  | 31  |  | 44  | 36  | 31  |  | 42  | 36  | 31  |
| 8   | 56  | 42  | 33  | 27  |  | 55  | 41  | 33  | 27  |  | 40  | 32  | 26  |  | 39  | 31  | 26  |  | 37  | 31  | 26  |
| 9   | 52  | 37  | 28  | 22  |  | 50  | 37  | 28  | 22  |  | 35  | 28  | 22  |  | 34  | 27  | 22  |  | 33  | 27  | 22  |
| 10  | 48  | 33  | 25  | 19  |  | 46  | 33  | 25  | 19  |  | 32  | 24  | 19  |  | 31  | 24  | 19  |  | 30  | 23  | 19  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 4429   | 4429 | 4429 | 4429 | 4429 |
| 5°  | 5503   | 4909 | 4006 | 3500 | 3456 |
| 10° | 5411   | 4208 | 3095 | 2739 | 2783 |
| 15° | 4495   | 2997 | 2225 | 2270 | 2429 |
| 20° | 7794   | 2380 | 1703 | 1960 | 2217 |
| 25° | 17372  | 2855 | 1379 | 1815 | 2081 |
| 30° | 51983  | 3520 | 1215 | 1772 | 2178 |
| 35° | 200100 | 3962 | 1098 | 1820 | 2302 |
| 40° | 464442 | 3435 | 1031 | 1889 | 2462 |
| 45° | 629058 | 2605 | 930  | 2047 | 2667 |
| 50° | 493255 | 1535 | 921  | 2183 | 2934 |
| 55° | 236761 | 688  | 879  | 2332 | 3211 |
| 60° | 21621  | 88   | 789  | 2500 | 3596 |
| 65° | 2335   | 0    | 726  | 2594 | 3891 |
| 70° | 577    | 0    | 898  | 2757 | 4231 |
| 75° | 593    | 169  | 1186 | 3050 | 4829 |
| 80° | 631    | 631  | 1389 | 3157 | 5177 |
| 85° | 503    | 503  | 2264 | 2768 | 5787 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 629058 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.7    | 0.8       |
| 10°-20°   | 3.6    | 1.6       |
| 20°-30°   | 8.6    | 3.8       |
| 30°-40°   | 47.2   | 20.7      |
| 40°-50°   | 114.2  | 50.1      |
| 50°-60°   | 45.6   | 20.0      |
| 60°-70°   | 3.9    | 1.7       |
| 70°-80°   | 2.2    | 1.0       |
| 80°-90°   | 1.0    | 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°    | 13.9   | 6.1       |
| 0°-40°    | 61.1   | 26.8      |
| 0°-60°    | 220.9  | 96.9      |
| 0°-90°    | 228.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 228.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 20   | 20  | 20  | 20   | 20   |      |
| 5°  | 25   | 22  | 18  | 16   | 16   | 2    |
| 15° | 20   | 13  | 10  | 10   | 11   | 7    |
| 25° | 72   | 12  | 6   | 8    | 9    | 43   |
| 35° | 748  | 15  | 4   | 7    | 9    | 528  |
| 45° | 2028 | 8   | 3   | 7    | 9    | 1431 |
| 55° | 619  | 2   | 2   | 6    | 8    | 577  |
| 65° | 4    | 0   | 1   | 5    | 8    | 12   |
| 75° | 1    | 0   | 1   | 4    | 6    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 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°    | 20.2   | 20.2   | 20.2   | 20.2   | 20.2   | 20.2   | 20.2  | 20.2  | 20.2  | 20.2  | 20.2 |
| 2.5°  | 22.7   | 22.7   | 23.0   | 22.7   | 22.7   | 22.7   | 22.7  | 22.5  | 22.5  | 22.5  | 21.8 |
| 5°    | 25.0   | 25.0   | 25.0   | 25.0   | 24.8   | 24.8   | 24.8  | 24.6  | 24.6  | 24.3  | 22.3 |
| 7.5°  | 25.9   | 25.9   | 25.7   | 25.7   | 25.5   | 25.5   | 25.2  | 25.0  | 24.8  | 24.6  | 21.4 |
| 10°   | 24.3   | 24.3   | 24.3   | 24.1   | 24.1   | 23.9   | 23.6  | 23.4  | 23.2  | 22.7  | 18.9 |
| 12.5° | 21.6   | 21.6   | 21.8   | 21.6   | 21.4   | 21.1   | 20.7  | 20.5  | 20.2  | 19.8  | 15.7 |
| 15°   | 19.8   | 19.8   | 19.8   | 19.6   | 19.3   | 18.9   | 18.6  | 18.2  | 18.0  | 17.3  | 13.2 |
| 17.5° | 25.2   | 25.2   | 25.0   | 24.6   | 23.6   | 23.0   | 21.8  | 20.9  | 19.8  | 18.4  | 11.4 |
| 20°   | 33.4   | 33.4   | 33.0   | 32.5   | 31.4   | 30.2   | 28.4  | 26.8  | 25.0  | 23.4  | 10.2 |
| 22.5° | 48.4   | 49.1   | 47.7   | 46.1   | 44.6   | 41.8   | 39.3  | 36.8  | 33.6  | 30.9  | 10.5 |
| 25°   | 71.8   | 72.5   | 71.8   | 68.2   | 65.2   | 61.6   | 56.8  | 51.8  | 46.4  | 41.4  | 11.8 |
| 27.5° | 116.4  | 116.9  | 115.7  | 106.8  | 102.1  | 92.5   | 84.1  | 75.9  | 66.8  | 57.7  | 13.0 |
| 30°   | 205.3  | 205.5  | 198.2  | 180.5  | 164.8  | 143.9  | 126.2 | 109.1 | 94.8  | 80.3  | 13.9 |
| 31°   | 270.3  | 263.9  | 248.5  | 227.1  | 202.1  | 173.9  | 149.6 | 127.5 | 106.2 | 90.5  | 14.1 |
| 32°   | 343.3  | 342.4  | 316.7  | 279.6  | 246.2  | 211.0  | 174.4 | 146.2 | 121.6 | 100.3 | 14.3 |
| 33°   | 439.9  | 440.4  | 399.9  | 356.2  | 301.4  | 254.2  | 206.2 | 167.5 | 138.0 | 111.9 | 14.8 |
| 34°   | 590.9  | 555.4  | 507.9  | 448.8  | 374.2  | 303.0  | 240.8 | 192.3 | 152.8 | 123.0 | 14.8 |
| 35°   | 747.5  | 711.8  | 659.5  | 569.9  | 467.6  | 368.1  | 281.9 | 218.9 | 170.5 | 135.0 | 14.8 |
| 36°   | 923.0  | 892.8  | 813.6  | 699.3  | 568.8  | 429.4  | 325.5 | 249.6 | 188.0 | 146.0 | 14.5 |
| 37°   | 1112.6 | 1068.3 | 980.5  | 855.7  | 681.1  | 515.8  | 378.7 | 280.1 | 205.5 | 157.8 | 14.1 |
| 38°   | 1305.1 | 1265.1 | 1154.4 | 1003.2 | 815.2  | 607.0  | 431.9 | 309.4 | 221.7 | 166.6 | 13.4 |
| 39°   | 1451.1 | 1429.3 | 1319.5 | 1150.6 | 922.3  | 693.4  | 486.7 | 340.8 | 238.7 | 175.5 | 12.7 |
| 40°   | 1622.5 | 1587.3 | 1483.1 | 1274.2 | 1048.9 | 781.4  | 540.4 | 368.5 | 252.8 | 182.6 | 12.0 |
| 41°   | 1778.9 | 1734.4 | 1603.0 | 1401.1 | 1150.3 | 860.5  | 591.3 | 397.2 | 264.2 | 186.6 | 11.6 |
| 42°   | 1913.0 | 1861.2 | 1723.9 | 1509.7 | 1235.1 | 923.7  | 632.0 | 417.6 | 274.9 | 190.1 | 10.9 |
| 43°   | 1999.9 | 1955.1 | 1820.1 | 1591.4 | 1307.6 | 981.6  | 670.0 | 439.0 | 281.4 | 192.3 | 10.0 |
| 44°   | 2042.2 | 1996.9 | 1866.2 | 1642.5 | 1352.2 | 1016.4 | 694.5 | 453.8 | 288.7 | 195.3 | 9.3  |
| 45°   | 2028.5 | 1982.6 | 1856.2 | 1643.4 | 1366.1 | 1028.9 | 705.0 | 460.4 | 292.6 | 198.0 | 8.4  |
| 46°   | 1966.0 | 1933.7 | 1806.4 | 1600.7 | 1339.7 | 1015.5 | 699.1 | 455.4 | 291.2 | 198.0 | 7.5  |
| 47°   | 1878.3 | 1841.4 | 1720.3 | 1527.3 | 1275.8 | 981.0  | 675.2 | 440.1 | 282.8 | 193.5 | 6.6  |
| 48°   | 1758.7 | 1727.3 | 1600.0 | 1410.6 | 1177.8 | 905.7  | 621.3 | 415.3 | 269.6 | 184.6 | 5.7  |
| 49°   | 1608.6 | 1565.0 | 1446.5 | 1261.5 | 1050.1 | 798.9  | 550.6 | 373.5 | 248.5 | 172.1 | 5.0  |
| 50°   | 1445.9 | 1392.0 | 1300.6 | 1112.1 | 918.0  | 685.0  | 457.6 | 315.8 | 218.7 | 155.7 | 4.5  |
| 51°   | 1286.5 | 1231.7 | 1144.6 | 984.4  | 777.0  | 568.3  | 369.2 | 252.1 | 180.1 | 133.2 | 3.9  |
| 52°   | 1121.2 | 1075.3 | 977.8  | 851.8  | 665.2  | 460.6  | 307.6 | 213.2 | 149.6 | 111.9 | 3.2  |
| 53°   | 956.6  | 925.3  | 832.5  | 705.0  | 534.5  | 376.2  | 251.2 | 182.6 | 130.5 | 95.7  | 2.5  |
| 54°   | 791.8  | 757.5  | 687.0  | 573.3  | 430.8  | 296.9  | 213.0 | 152.8 | 113.2 | 83.4  | 2.3  |
| 55°   | 619.3  | 601.5  | 536.5  | 437.2  | 326.5  | 236.9  | 172.8 | 131.4 | 94.8  | 69.8  | 1.8  |
| 56°   | 477.0  | 456.9  | 397.6  | 317.1  | 242.6  | 185.5  | 139.8 | 107.3 | 80.3  | 58.4  | 1.4  |
| 57°   | 312.4  | 291.9  | 252.6  | 221.4  | 176.6  | 135.3  | 106.8 | 84.6  | 65.2  | 48.4  | 1.1  |
| 58°   | 184.6  | 166.0  | 159.8  | 136.4  | 117.8  | 91.8   | 78.9  | 63.0  | 48.2  | 38.2  | 0.7  |
| 59°   | 84.8   | 86.2   | 76.6   | 71.8   | 65.2   | 58.4   | 48.0  | 42.1  | 33.0  | 27.5  | 0.5  |
| 60°   | 49.3   | 46.6   | 45.5   | 40.7   | 36.1   | 32.1   | 28.9  | 25.5  | 20.7  | 17.7  | 0.2  |
| 62.5° | 16.8   | 16.1   | 16.6   | 15.0   | 14.1   | 13.6   | 12.5  | 10.7  | 8.9   | 7.3   | 0.0  |
| 65°   | 4.5    | 4.5    | 4.3    | 4.1    | 3.9    | 3.6    | 3.4   | 3.0   | 2.7   | 2.3   | 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° | 1.6 | 1.6  | 1.4 | 1.4  | 1.1 | 1.1   | 0.9 | 0.9   | 0.7 | 0.7   | 0.0 |
| 70°   | 0.9 | 0.9  | 0.9 | 0.7  | 0.7 | 0.7   | 0.5 | 0.5   | 0.5 | 0.2   | 0.0 |
| 72.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.5 | 0.5   | 0.5 | 0.2   | 0.2 |
| 75°   | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 |
| 77.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.2   | 0.5 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.5 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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°    | 20.2  | 20.2 | 20.2   | 20.2 | 20.2   | 20.2 |
| 2.5°  | 20.9  | 20.0 | 18.9   | 18.2 | 18.0   | 17.7 |
| 5°    | 20.0  | 18.2 | 16.8   | 15.9 | 15.7   | 15.7 |
| 7.5°  | 18.0  | 15.9 | 14.5   | 14.1 | 13.9   | 13.9 |
| 10°   | 15.7  | 13.9 | 12.7   | 12.3 | 12.5   | 12.5 |
| 12.5° | 13.2  | 11.6 | 11.1   | 11.1 | 11.4   | 11.6 |
| 15°   | 10.7  | 9.8  | 9.8    | 10.0 | 10.5   | 10.7 |
| 17.5° | 8.9   | 8.4  | 8.6    | 9.1  | 9.5    | 10.0 |
| 20°   | 7.3   | 7.3  | 7.7    | 8.4  | 9.1    | 9.5  |
| 22.5° | 6.1   | 6.4  | 7.0    | 7.7  | 8.6    | 9.1  |
| 25°   | 5.2   | 5.7  | 6.4    | 7.5  | 8.4    | 8.6  |
| 27.5° | 4.5   | 5.2  | 6.1    | 7.3  | 8.2    | 8.6  |
| 30°   | 3.9   | 4.8  | 5.9    | 7.0  | 8.2    | 8.6  |
| 31°   | 3.6   | 4.5  | 5.7    | 7.0  | 8.2    | 8.6  |
| 32°   | 3.4   | 4.5  | 5.7    | 7.0  | 8.2    | 8.6  |
| 33°   | 3.2   | 4.3  | 5.7    | 6.8  | 8.2    | 8.6  |
| 34°   | 3.0   | 4.3  | 5.7    | 7.0  | 8.2    | 8.6  |
| 35°   | 2.7   | 4.1  | 5.5    | 6.8  | 8.0    | 8.6  |
| 36°   | 2.5   | 4.1  | 5.5    | 6.8  | 8.2    | 8.6  |
| 37°   | 2.3   | 4.1  | 5.5    | 6.8  | 8.0    | 8.6  |
| 38°   | 2.3   | 3.9  | 5.2    | 6.8  | 8.0    | 8.6  |
| 39°   | 2.0   | 3.6  | 5.2    | 6.8  | 8.0    | 8.6  |
| 40°   | 1.8   | 3.6  | 5.0    | 6.6  | 8.0    | 8.6  |
| 41°   | 1.6   | 3.4  | 5.0    | 6.6  | 8.0    | 8.6  |
| 42°   | 1.4   | 3.4  | 5.0    | 6.6  | 8.0    | 8.6  |
| 43°   | 1.1   | 3.2  | 4.8    | 6.6  | 8.0    | 8.6  |
| 44°   | 1.1   | 3.2  | 4.8    | 6.6  | 8.0    | 8.6  |
| 45°   | 0.9   | 3.0  | 4.5    | 6.6  | 8.0    | 8.6  |
| 46°   | 0.9   | 3.0  | 4.5    | 6.4  | 8.0    | 8.6  |
| 47°   | 0.7   | 3.0  | 4.5    | 6.4  | 8.0    | 8.6  |
| 48°   | 0.7   | 2.7  | 4.5    | 6.4  | 8.0    | 8.6  |
| 49°   | 0.5   | 2.7  | 4.5    | 6.4  | 8.0    | 8.6  |
| 50°   | 0.5   | 2.7  | 4.3    | 6.4  | 8.0    | 8.6  |
| 51°   | 0.5   | 2.7  | 4.3    | 6.4  | 8.0    | 8.6  |
| 52°   | 0.5   | 2.5  | 4.3    | 6.4  | 8.0    | 8.6  |
| 53°   | 0.5   | 2.5  | 4.3    | 6.4  | 8.0    | 8.6  |
| 54°   | 0.5   | 2.5  | 4.1    | 6.4  | 8.0    | 8.6  |
| 55°   | 0.5   | 2.3  | 4.1    | 6.1  | 8.0    | 8.4  |
| 56°   | 0.5   | 2.3  | 4.1    | 6.1  | 8.0    | 8.4  |
| 57°   | 0.5   | 2.3  | 3.9    | 6.1  | 8.0    | 8.4  |
| 58°   | 0.5   | 2.0  | 3.9    | 5.9  | 7.7    | 8.4  |
| 59°   | 0.5   | 2.0  | 3.6    | 5.9  | 7.7    | 8.2  |
| 60°   | 0.5   | 1.8  | 3.6    | 5.7  | 7.5    | 8.2  |
| 62.5° | 0.5   | 1.6  | 3.2    | 5.5  | 7.3    | 7.7  |
| 65°   | 0.5   | 1.4  | 3.0    | 5.0  | 7.0    | 7.5  |



TEST NUMBER: P1333996

CATALOG NUMBER: P3A02R159027DE010 E3CA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.5   | 1.4 | 2.7    | 4.8  | 6.6    | 7.3  |
| 70°   | 0.5   | 1.4 | 2.5    | 4.3  | 6.4    | 6.6  |
| 72.5° | 0.7   | 1.4 | 2.3    | 4.1  | 5.9    | 6.1  |
| 75°   | 0.9   | 1.4 | 2.0    | 3.6  | 5.5    | 5.7  |
| 77.5° | 0.9   | 1.4 | 1.8    | 3.2  | 4.8    | 5.0  |
| 80°   | 0.9   | 1.1 | 1.6    | 2.5  | 3.9    | 4.1  |
| 82.5° | 0.9   | 1.1 | 1.1    | 2.0  | 3.0    | 3.2  |
| 85°   | 0.7   | 0.9 | 0.9    | 1.1  | 2.0    | 2.3  |
| 87.5° | 0.7   | 0.9 | 0.5    | 0.7  | 0.9    | 0.9  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)