

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: P1338465

Luminaire Tested: P3A05R359740DE010 E3CA451MMS

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1338465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R359740DE010 E3CA451MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3CA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

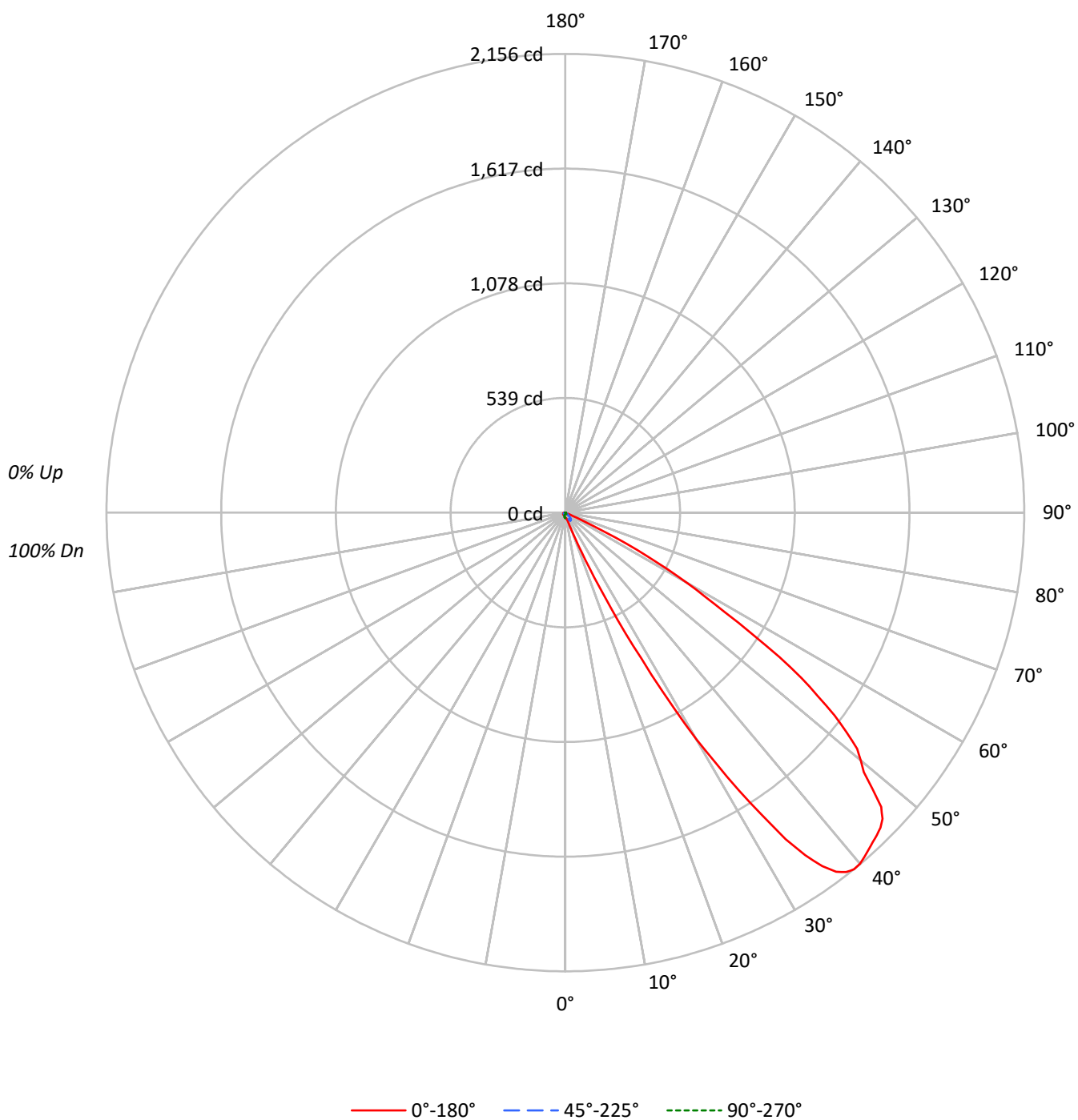
Lumens per Lamp: N/A  
Luminaire Lumens: 537.0 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

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### Luminous Intensity Polar Plot



TEST NUMBER: P1338465

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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   | 100 | 93  | 86  | 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  | 52  | 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  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  |    |    |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |    |    |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5416   | 5416  | 5416 | 5416 | 5416 |
| 5°  | 5877   | 5767  | 5327 | 4799 | 4689 |
| 10° | 6146   | 5611  | 4743 | 4097 | 4097 |
| 15° | 8808   | 5494  | 3859 | 3519 | 3632 |
| 20° | 22052  | 5881  | 3057 | 3057 | 3384 |
| 25° | 102393 | 7500  | 2347 | 2807 | 3170 |
| 30° | 311263 | 10179 | 1848 | 2583 | 3190 |
| 35° | 526069 | 11805 | 1553 | 2463 | 3105 |
| 40° | 616670 | 11650 | 1260 | 2490 | 3321 |
| 45° | 649432 | 8280  | 1054 | 2698 | 3597 |
| 50° | 618146 | 4947  | 989  | 2797 | 3957 |
| 55° | 517984 | 2026  | 1109 | 3135 | 4626 |
| 60° | 289977 | 439   | 1272 | 3596 | 5087 |
| 65° | 50070  | 259   | 1245 | 4047 | 5759 |
| 70° | 962    | 321   | 1539 | 4360 | 6540 |
| 75° | 847    | 424   | 2033 | 4914 | 7371 |
| 80° | 631    | 631   | 2399 | 5556 | 8587 |
| 85° | 0      | 1258  | 4780 | 6038 | 9812 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 654030 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.2    | 0.4       |
| 10°-20°   | 6.3    | 1.2       |
| 20°-30°   | 32.9   | 6.1       |
| 30°-40°   | 142.3  | 26.5      |
| 40°-50°   | 203.0  | 37.8      |
| 50°-60°   | 125.7  | 23.4      |
| 60°-70°   | 19.1   | 3.6       |
| 70°-80°   | 3.6    | 0.7       |
| 80°-90°   | 1.8    | 0.3       |
| 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°    | 41.5   | 7.7       |
| 0°-40°    | 183.8  | 34.2      |
| 0°-60°    | 512.5  | 95.4      |
| 0°-90°    | 537.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 537.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 25   | 25  | 25  | 25   | 25   |      |
| 5°  | 27   | 26  | 24  | 22   | 21   | 3    |
| 15° | 39   | 24  | 17  | 16   | 16   | 14   |
| 25° | 423  | 31  | 10  | 12   | 13   | 253  |
| 35° | 1965 | 44  | 6   | 9    | 12   | 1180 |
| 45° | 2094 | 27  | 3   | 9    | 12   | 1582 |
| 55° | 1355 | 5   | 3   | 8    | 12   | 1154 |
| 65° | 96   | 0   | 2   | 8    | 11   | 197  |
| 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°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0°    | 24.7   | 24.7   | 24.7   | 24.7   | 24.7   | 24.7  | 24.7  | 24.7 | 24.7  | 24.7 | 24.7   |
| 2.5°  | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7  | 25.7  | 25.7 | 25.7  | 24.7 | 24.2   |
| 5°    | 26.7   | 26.7   | 26.2   | 26.2   | 26.2   | 26.2  | 26.2  | 26.2 | 25.2  | 24.2 | 22.8   |
| 7.5°  | 27.1   | 27.1   | 26.7   | 26.7   | 26.7   | 26.7  | 26.2  | 25.7 | 24.7  | 22.8 | 21.3   |
| 10°   | 27.6   | 27.6   | 27.6   | 27.6   | 27.1   | 26.7  | 26.2  | 25.2 | 23.8  | 21.3 | 19.9   |
| 12.5° | 31.0   | 31.0   | 30.5   | 29.6   | 28.6   | 27.6  | 26.7  | 24.7 | 21.8  | 19.4 | 17.9   |
| 15°   | 38.8   | 38.3   | 37.3   | 35.9   | 33.9   | 31.5  | 29.6  | 24.2 | 19.9  | 17.0 | 16.0   |
| 17.5° | 54.3   | 53.3   | 51.9   | 47.0   | 42.7   | 38.3  | 34.4  | 24.2 | 17.9  | 15.0 | 14.1   |
| 20°   | 94.5   | 95.0   | 84.8   | 73.2   | 63.5   | 52.8  | 43.1  | 25.2 | 16.0  | 13.1 | 12.6   |
| 22.5° | 197.3  | 189.5  | 165.3  | 137.2  | 104.7  | 81.0  | 61.1  | 27.6 | 14.1  | 11.1 | 11.1   |
| 25°   | 423.2  | 393.6  | 335.0  | 253.0  | 178.4  | 126.5 | 88.7  | 31.0 | 12.6  | 9.7  | 10.2   |
| 27.5° | 772.7  | 746.0  | 628.2  | 473.1  | 314.1  | 191.0 | 120.2 | 35.4 | 11.1  | 8.2  | 9.2    |
| 30°   | 1229.3 | 1155.7 | 1002.0 | 775.6  | 525.0  | 292.3 | 161.4 | 40.2 | 9.2   | 7.3  | 8.7    |
| 31°   | 1371.9 | 1337.9 | 1150.8 | 897.3  | 615.2  | 347.1 | 178.9 | 41.7 | 8.7   | 7.3  | 8.2    |
| 32°   | 1541.0 | 1480.9 | 1313.2 | 1030.6 | 706.8  | 396.0 | 199.7 | 43.1 | 8.2   | 6.3  | 8.2    |
| 33°   | 1692.3 | 1634.1 | 1430.0 | 1147.9 | 799.4  | 451.8 | 222.0 | 43.6 | 7.3   | 6.3  | 7.8    |
| 34°   | 1851.3 | 1771.8 | 1569.6 | 1270.5 | 894.4  | 511.9 | 242.4 | 44.1 | 6.8   | 5.8  | 7.8    |
| 35°   | 1965.2 | 1885.7 | 1689.9 | 1367.5 | 976.3  | 565.2 | 265.6 | 44.1 | 6.3   | 5.8  | 7.3    |
| 36°   | 2053.4 | 1983.6 | 1793.6 | 1467.4 | 1057.7 | 613.2 | 284.1 | 44.1 | 5.3   | 5.3  | 7.3    |
| 37°   | 2114.0 | 2047.6 | 1863.4 | 1553.2 | 1119.8 | 655.9 | 300.5 | 44.1 | 4.8   | 5.3  | 7.3    |
| 38°   | 2143.6 | 2088.3 | 1930.8 | 1615.7 | 1179.9 | 689.3 | 313.6 | 43.1 | 4.4   | 4.8  | 6.8    |
| 39°   | 2156.2 | 2111.1 | 1972.0 | 1668.5 | 1225.0 | 718.4 | 323.3 | 42.2 | 3.9   | 4.8  | 6.8    |
| 40°   | 2154.3 | 2115.0 | 1995.3 | 1704.9 | 1261.3 | 738.3 | 328.7 | 40.7 | 3.4   | 4.4  | 6.8    |
| 41°   | 2143.1 | 2109.2 | 2007.4 | 1735.9 | 1283.2 | 751.9 | 330.1 | 39.3 | 2.9   | 4.4  | 6.3    |
| 42°   | 2130.5 | 2099.5 | 2011.3 | 1752.4 | 1297.2 | 756.2 | 326.2 | 37.3 | 2.9   | 3.9  | 6.3    |
| 43°   | 2117.4 | 2088.8 | 2011.3 | 1757.7 | 1300.6 | 753.3 | 319.9 | 33.9 | 2.4   | 3.9  | 6.3    |
| 44°   | 2106.8 | 2079.6 | 2005.0 | 1756.3 | 1293.3 | 742.2 | 308.3 | 30.1 | 1.9   | 3.9  | 6.3    |
| 45°   | 2094.2 | 2067.5 | 1996.7 | 1747.1 | 1279.3 | 723.3 | 293.8 | 26.7 | 1.5   | 3.4  | 6.3    |
| 46°   | 2071.9 | 2051.0 | 1982.2 | 1728.2 | 1257.0 | 697.1 | 275.3 | 24.2 | 1.0   | 3.4  | 5.8    |
| 47°   | 2028.7 | 2010.8 | 1954.1 | 1700.0 | 1227.4 | 666.1 | 256.4 | 21.8 | 1.0   | 3.4  | 5.8    |
| 48°   | 1941.9 | 1941.5 | 1897.8 | 1647.7 | 1180.4 | 627.3 | 236.6 | 19.4 | 1.0   | 3.4  | 5.8    |
| 49°   | 1858.1 | 1849.3 | 1795.1 | 1555.6 | 1113.0 | 580.7 | 215.7 | 17.5 | 0.5   | 3.4  | 5.8    |
| 50°   | 1812.0 | 1793.1 | 1703.9 | 1447.0 | 1026.7 | 516.3 | 193.4 | 14.5 | 0.5   | 2.9  | 5.8    |
| 51°   | 1764.0 | 1736.9 | 1631.7 | 1349.1 | 923.9  | 454.2 | 169.2 | 11.6 | 0.5   | 2.9  | 5.3    |
| 52°   | 1677.3 | 1651.6 | 1533.8 | 1255.5 | 824.1  | 390.7 | 145.9 | 9.7  | 0.5   | 2.9  | 5.8    |
| 53°   | 1583.7 | 1546.9 | 1418.9 | 1152.8 | 736.3  | 334.5 | 122.2 | 8.2  | 0.5   | 2.9  | 5.3    |
| 54°   | 1465.9 | 1449.4 | 1302.5 | 1026.7 | 633.6  | 280.2 | 100.3 | 6.8  | 0.5   | 2.9  | 5.3    |
| 55°   | 1354.9 | 1330.7 | 1178.0 | 897.8  | 540.5  | 229.8 | 83.9  | 5.3  | 0.5   | 2.9  | 5.3    |
| 56°   | 1213.3 | 1177.0 | 1034.0 | 779.5  | 446.0  | 185.2 | 70.8  | 4.4  | 0.5   | 2.9  | 5.3    |
| 57°   | 1044.7 | 1005.9 | 892.9  | 648.1  | 350.0  | 141.1 | 59.1  | 3.4  | 0.5   | 2.9  | 5.3    |
| 58°   | 883.7  | 850.3  | 729.1  | 500.3  | 263.7  | 97.9  | 49.0  | 2.4  | 0.5   | 2.4  | 5.3    |
| 59°   | 763.5  | 726.7  | 606.4  | 384.9  | 183.2  | 72.2  | 36.8  | 1.9  | 0.5   | 2.9  | 5.3    |
| 60°   | 661.2  | 613.7  | 488.2  | 298.1  | 130.9  | 51.9  | 27.1  | 1.0  | 1.0   | 2.9  | 5.3    |
| 62.5° | 381.0  | 336.4  | 233.2  | 121.2  | 53.8   | 26.7  | 13.1  | 0.5  | 1.0   | 2.9  | 5.3    |
| 65°   | 96.5   | 85.8   | 55.7   | 26.2   | 15.0   | 9.2   | 4.8   | 0.5  | 1.0   | 2.4  | 4.8    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 3.4 | 3.4 | 3.4 | 2.9 | 2.4 | 1.9 | 1.0 | 0.5 | 1.0   | 2.4 | 4.8    |
| 70°   | 1.5 | 1.5 | 1.5 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 1.0   | 2.4 | 4.4    |
| 72.5° | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.4 | 3.9    |
| 75°   | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.4 | 3.9    |
| 77.5° | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 1.9 | 3.4    |
| 80°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 1.9 | 2.9    |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 1.9 | 2.4    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 1.5   | 1.9 | 1.9    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.5   | 1.9 | 1.5    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 24.7 | 24.7   | 24.7 |
| 2.5°  | 23.3 | 23.3   | 23.3 |
| 5°    | 21.8 | 21.8   | 21.3 |
| 7.5°  | 20.4 | 19.9   | 19.9 |
| 10°   | 18.4 | 18.4   | 18.4 |
| 12.5° | 17.0 | 17.0   | 17.0 |
| 15°   | 15.5 | 16.0   | 16.0 |
| 17.5° | 14.1 | 15.0   | 15.0 |
| 20°   | 13.1 | 14.1   | 14.5 |
| 22.5° | 12.1 | 13.1   | 13.6 |
| 25°   | 11.6 | 12.6   | 13.1 |
| 27.5° | 10.7 | 12.1   | 13.1 |
| 30°   | 10.2 | 11.6   | 12.6 |
| 31°   | 10.2 | 11.6   | 12.1 |
| 32°   | 9.7  | 11.6   | 12.1 |
| 33°   | 9.7  | 11.6   | 12.1 |
| 34°   | 9.7  | 11.1   | 12.1 |
| 35°   | 9.2  | 11.1   | 11.6 |
| 36°   | 9.2  | 11.1   | 11.6 |
| 37°   | 9.2  | 11.1   | 12.1 |
| 38°   | 9.2  | 11.1   | 11.6 |
| 39°   | 8.7  | 11.1   | 11.6 |
| 40°   | 8.7  | 11.1   | 11.6 |
| 41°   | 8.7  | 11.1   | 11.6 |
| 42°   | 8.7  | 11.1   | 11.6 |
| 43°   | 8.7  | 11.1   | 11.6 |
| 44°   | 8.7  | 10.7   | 11.6 |
| 45°   | 8.7  | 10.7   | 11.6 |
| 46°   | 8.7  | 11.1   | 11.6 |
| 47°   | 8.7  | 11.1   | 12.1 |
| 48°   | 8.7  | 10.7   | 11.6 |
| 49°   | 8.2  | 10.7   | 11.6 |
| 50°   | 8.2  | 10.7   | 11.6 |
| 51°   | 8.2  | 11.1   | 12.1 |
| 52°   | 8.2  | 11.1   | 12.1 |
| 53°   | 8.2  | 11.1   | 12.1 |
| 54°   | 8.2  | 11.1   | 11.6 |
| 55°   | 8.2  | 11.1   | 12.1 |
| 56°   | 8.2  | 11.1   | 11.6 |
| 57°   | 8.2  | 11.1   | 11.6 |
| 58°   | 8.2  | 10.7   | 11.6 |
| 59°   | 8.2  | 10.7   | 11.6 |
| 60°   | 8.2  | 10.7   | 11.6 |
| 62.5° | 7.8  | 10.7   | 11.6 |
| 65°   | 7.8  | 10.2   | 11.1 |



TEST NUMBER: P1338465

CATALOG NUMBER: P3A05R359740DE010 E3CA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 7.3  | 10.2   | 10.7 |
| 70°   | 6.8  | 9.7    | 10.2 |
| 72.5° | 6.3  | 9.2    | 9.7  |
| 75°   | 5.8  | 8.2    | 8.7  |
| 77.5° | 4.8  | 7.3    | 8.2  |
| 80°   | 4.4  | 6.3    | 6.8  |
| 82.5° | 3.4  | 5.3    | 5.8  |
| 85°   | 2.4  | 3.9    | 3.9  |
| 87.5° | 1.0  | 1.9    | 1.9  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)