

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: P1338432

Luminaire Tested: P3A05R359730DE010 E3CA451MB

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1338432  
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: P3A05R359730DE010 E3CA451MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 97CRI , E3CA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

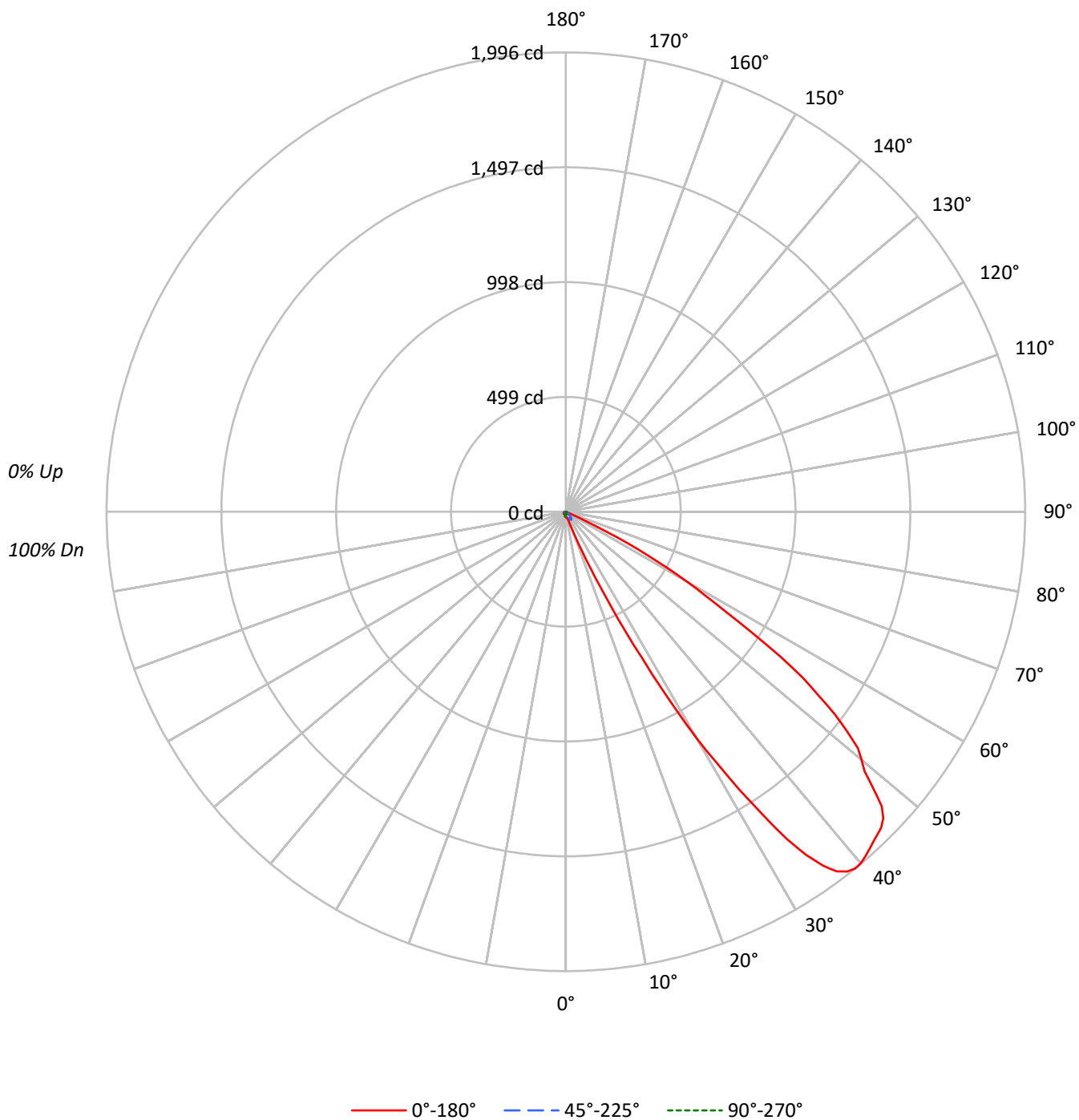
Lumens per Lamp: N/A  
Luminaire Lumens: 496.9 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1338432

CATALOG NUMBER: P3A05R359730DE010 E3CA451MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1338432

CATALOG NUMBER: P3A05R359730DE010 E3CA451MB

**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   | 100 | 93  | 86  | 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  | 52  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5022   | 5022  | 5022 | 5022 | 5022 |
| 5°  | 5437   | 5327  | 4931 | 4446 | 4336 |
| 10° | 5700   | 5188  | 4386 | 3785 | 3785 |
| 15° | 8150   | 5085  | 3564 | 3269 | 3360 |
| 20° | 20418  | 5437  | 2824 | 2824 | 3150 |
| 25° | 94772  | 6944  | 2178 | 2613 | 2928 |
| 30° | 288095 | 9419  | 1696 | 2380 | 2962 |
| 35° | 486879 | 10922 | 1446 | 2275 | 2891 |
| 40° | 570726 | 10792 | 1145 | 2319 | 3092 |
| 45° | 601055 | 7660  | 961  | 2512 | 3349 |
| 50° | 572092 | 4605  | 921  | 2593 | 3684 |
| 55° | 479409 | 1873  | 1032 | 2906 | 4282 |
| 60° | 268400 | 395   | 1184 | 3333 | 4736 |
| 65° | 46334  | 208   | 1141 | 3736 | 5344 |
| 70° | 833    | 256   | 1410 | 4039 | 6027 |
| 75° | 763    | 339   | 1864 | 4575 | 6863 |
| 80° | 505    | 505   | 2273 | 5051 | 7956 |
| 85° | 0      | 1006  | 4529 | 5535 | 9057 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 605291 cd/sqm

TEST NUMBER: P1338432

CATALOG NUMBER: P3A05R359730DE010 E3CA451MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.1    | 0.4       |
| 10°-20°   | 5.9    | 1.2       |
| 20°-30°   | 30.5   | 6.1       |
| 30°-40°   | 131.7  | 26.5      |
| 40°-50°   | 187.9  | 37.8      |
| 50°-60°   | 116.3  | 23.4      |
| 60°-70°   | 17.7   | 3.6       |
| 70°-80°   | 3.3    | 0.7       |
| 80°-90°   | 1.6    | 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°    | 38.4   | 7.7       |
| 0°-40°    | 170.1  | 34.2      |
| 0°-60°    | 474.3  | 95.4      |
| 0°-90°    | 496.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 496.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 23   | 23  | 23  | 23   | 23   |      |
| 5°  | 25   | 24  | 22  | 20   | 20   | 2    |
| 15° | 36   | 22  | 16  | 14   | 15   | 13   |
| 25° | 392  | 29  | 9   | 11   | 12   | 234  |
| 35° | 1819 | 41  | 5   | 8    | 11   | 1092 |
| 45° | 1938 | 25  | 3   | 8    | 11   | 1464 |
| 55° | 1254 | 5   | 3   | 8    | 11   | 1068 |
| 65° | 89   | 0   | 2   | 7    | 10   | 182  |
| 75° | 1    | 0   | 2   | 5    | 8    | 1    |
| 85° | 0    | 0   | 2   | 2    | 4    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1338432

CATALOG NUMBER: P3A05R359730DE010 E3CA451MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0°    | 22.9   | 22.9   | 22.9   | 22.9   | 22.9   | 22.9  | 22.9  | 22.9 | 22.9  | 22.9 | 22.9   |
| 2.5°  | 23.8   | 23.8   | 23.8   | 23.8   | 23.8   | 23.8  | 23.8  | 23.8 | 23.8  | 22.9 | 22.4   |
| 5°    | 24.7   | 24.7   | 24.2   | 24.2   | 24.2   | 24.2  | 24.2  | 24.2 | 23.3  | 22.4 | 21.1   |
| 7.5°  | 25.1   | 25.1   | 24.7   | 24.7   | 24.7   | 24.7  | 24.2  | 23.8 | 22.9  | 21.1 | 19.7   |
| 10°   | 25.6   | 25.6   | 25.6   | 25.6   | 25.1   | 24.7  | 24.2  | 23.3 | 22.0  | 19.7 | 18.4   |
| 12.5° | 28.7   | 28.7   | 28.3   | 27.4   | 26.5   | 25.6  | 24.7  | 22.9 | 20.2  | 17.9 | 16.6   |
| 15°   | 35.9   | 35.4   | 34.5   | 33.2   | 31.4   | 29.2  | 27.4  | 22.4 | 18.4  | 15.7 | 14.8   |
| 17.5° | 50.2   | 49.4   | 48.0   | 43.5   | 39.5   | 35.4  | 31.9  | 22.4 | 16.6  | 13.9 | 13.0   |
| 20°   | 87.5   | 87.9   | 78.5   | 67.7   | 58.8   | 48.9  | 39.9  | 23.3 | 14.8  | 12.1 | 11.7   |
| 22.5° | 182.6  | 175.4  | 153.0  | 127.0  | 96.9   | 74.9  | 56.5  | 25.6 | 13.0  | 10.3 | 10.3   |
| 25°   | 391.7  | 364.3  | 310.0  | 234.2  | 165.1  | 117.1 | 82.1  | 28.7 | 11.7  | 9.0  | 9.4    |
| 27.5° | 715.1  | 690.5  | 581.4  | 437.9  | 290.7  | 176.8 | 111.3 | 32.8 | 10.3  | 7.6  | 8.5    |
| 30°   | 1137.8 | 1069.6 | 927.4  | 717.8  | 485.9  | 270.5 | 149.4 | 37.2 | 8.5   | 6.7  | 8.1    |
| 31°   | 1269.7 | 1238.3 | 1065.1 | 830.4  | 569.3  | 321.2 | 165.6 | 38.6 | 8.1   | 6.7  | 7.6    |
| 32°   | 1426.3 | 1370.6 | 1215.4 | 953.8  | 654.1  | 366.5 | 184.8 | 39.9 | 7.6   | 5.8  | 7.6    |
| 33°   | 1566.2 | 1512.4 | 1323.5 | 1062.4 | 739.8  | 418.1 | 205.5 | 40.4 | 6.7   | 5.8  | 7.2    |
| 34°   | 1713.4 | 1639.8 | 1452.7 | 1175.9 | 827.8  | 473.8 | 224.3 | 40.8 | 6.3   | 5.4  | 7.2    |
| 35°   | 1818.8 | 1745.2 | 1564.0 | 1265.6 | 903.6  | 523.1 | 245.9 | 40.8 | 5.8   | 5.4  | 6.7    |
| 36°   | 1900.5 | 1835.9 | 1660.0 | 1358.1 | 979.0  | 567.5 | 262.9 | 40.8 | 4.9   | 4.9  | 6.7    |
| 37°   | 1956.6 | 1895.1 | 1724.6 | 1437.5 | 1036.4 | 607.0 | 278.2 | 40.8 | 4.5   | 4.9  | 6.7    |
| 38°   | 1983.9 | 1932.8 | 1787.0 | 1495.3 | 1092.0 | 638.0 | 290.3 | 39.9 | 4.0   | 4.5  | 6.3    |
| 39°   | 1995.6 | 1953.9 | 1825.1 | 1544.2 | 1133.7 | 664.9 | 299.2 | 39.0 | 3.6   | 4.5  | 6.3    |
| 40°   | 1993.8 | 1957.5 | 1846.6 | 1577.9 | 1167.4 | 683.3 | 304.2 | 37.7 | 3.1   | 4.0  | 6.3    |
| 41°   | 1983.5 | 1952.1 | 1857.9 | 1606.6 | 1187.6 | 695.9 | 305.5 | 36.3 | 2.7   | 4.0  | 5.8    |
| 42°   | 1971.8 | 1943.1 | 1861.4 | 1621.9 | 1200.6 | 699.9 | 301.9 | 34.5 | 2.7   | 3.6  | 5.8    |
| 43°   | 1959.7 | 1933.2 | 1861.4 | 1626.8 | 1203.7 | 697.2 | 296.1 | 31.4 | 2.2   | 3.6  | 5.8    |
| 44°   | 1949.8 | 1924.7 | 1855.6 | 1625.5 | 1197.0 | 686.9 | 285.3 | 27.8 | 1.8   | 3.6  | 5.8    |
| 45°   | 1938.2 | 1913.5 | 1848.0 | 1616.9 | 1184.0 | 669.4 | 271.9 | 24.7 | 1.3   | 3.1  | 5.8    |
| 46°   | 1917.5 | 1898.2 | 1834.5 | 1599.4 | 1163.3 | 645.2 | 254.8 | 22.4 | 0.9   | 3.1  | 5.4    |
| 47°   | 1877.6 | 1861.0 | 1808.5 | 1573.4 | 1136.0 | 616.4 | 237.3 | 20.2 | 0.9   | 3.1  | 5.4    |
| 48°   | 1797.3 | 1796.8 | 1756.5 | 1525.0 | 1092.5 | 580.6 | 218.9 | 17.9 | 0.9   | 3.1  | 5.4    |
| 49°   | 1719.7 | 1711.6 | 1661.3 | 1439.7 | 1030.1 | 537.5 | 199.6 | 16.2 | 0.4   | 3.1  | 5.4    |
| 50°   | 1677.0 | 1659.6 | 1577.0 | 1339.2 | 950.2  | 477.8 | 179.0 | 13.5 | 0.4   | 2.7  | 5.4    |
| 51°   | 1632.6 | 1607.5 | 1510.2 | 1248.6 | 855.1  | 420.4 | 156.6 | 10.8 | 0.4   | 2.7  | 4.9    |
| 52°   | 1552.3 | 1528.5 | 1419.5 | 1162.0 | 762.7  | 361.6 | 135.0 | 9.0  | 0.4   | 2.7  | 5.4    |
| 53°   | 1465.7 | 1431.6 | 1313.2 | 1066.9 | 681.5  | 309.6 | 113.1 | 7.6  | 0.4   | 2.7  | 4.9    |
| 54°   | 1356.7 | 1341.5 | 1205.5 | 950.2  | 586.4  | 259.3 | 92.9  | 6.3  | 0.4   | 2.7  | 4.9    |
| 55°   | 1254.0 | 1231.5 | 1090.2 | 830.9  | 500.2  | 212.7 | 77.6  | 4.9  | 0.4   | 2.7  | 4.9    |
| 56°   | 1123.0 | 1089.3 | 957.0  | 721.4  | 412.8  | 171.4 | 65.5  | 4.0  | 0.4   | 2.7  | 4.9    |
| 57°   | 966.8  | 930.9  | 826.4  | 599.8  | 323.9  | 130.6 | 54.7  | 3.1  | 0.4   | 2.7  | 4.9    |
| 58°   | 817.9  | 786.9  | 674.8  | 463.0  | 244.1  | 90.6  | 45.3  | 2.2  | 0.4   | 2.2  | 4.9    |
| 59°   | 706.6  | 672.5  | 561.3  | 356.2  | 169.6  | 66.8  | 34.1  | 1.8  | 0.4   | 2.7  | 4.9    |
| 60°   | 612.0  | 568.0  | 451.8  | 275.9  | 121.1  | 48.0  | 25.1  | 0.9  | 0.9   | 2.7  | 4.9    |
| 62.5° | 352.6  | 311.4  | 215.8  | 112.2  | 49.8   | 24.7  | 12.1  | 0.4  | 0.9   | 2.7  | 4.9    |
| 65°   | 89.3   | 79.4   | 51.6   | 24.2   | 13.9   | 8.5   | 4.5   | 0.4  | 0.9   | 2.2  | 4.5    |



TEST NUMBER: P1338432

CATALOG NUMBER: P3A05R359730DE010 E3CA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 3.1 | 3.1 | 3.1 | 2.7 | 2.2 | 1.8 | 0.9 | 0.4 | 0.9   | 2.2 | 4.5    |
| 70°   | 1.3 | 1.3 | 1.3 | 0.9 | 0.9 | 0.4 | 0.4 | 0.4 | 0.9   | 2.2 | 4.0    |
| 72.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 1.3   | 2.2 | 3.6    |
| 75°   | 0.9 | 0.9 | 0.9 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 1.3   | 2.2 | 3.6    |
| 77.5° | 0.9 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.3   | 1.8 | 3.1    |
| 80°   | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.3   | 1.8 | 2.7    |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.3   | 1.8 | 2.2    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.4 | 1.3   | 1.8 | 1.8    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.3   | 1.8 | 1.3    |
| 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: P1338432

CATALOG NUMBER: P3A05R359730DE010 E3CA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 22.9 | 22.9   | 22.9 |
| 2.5°  | 21.5 | 21.5   | 21.5 |
| 5°    | 20.2 | 20.2   | 19.7 |
| 7.5°  | 18.8 | 18.4   | 18.4 |
| 10°   | 17.0 | 17.0   | 17.0 |
| 12.5° | 15.7 | 15.7   | 15.7 |
| 15°   | 14.4 | 14.8   | 14.8 |
| 17.5° | 13.0 | 13.9   | 13.9 |
| 20°   | 12.1 | 13.0   | 13.5 |
| 22.5° | 11.2 | 12.1   | 12.6 |
| 25°   | 10.8 | 11.7   | 12.1 |
| 27.5° | 9.9  | 11.2   | 12.1 |
| 30°   | 9.4  | 10.8   | 11.7 |
| 31°   | 9.4  | 10.8   | 11.2 |
| 32°   | 9.0  | 10.8   | 11.2 |
| 33°   | 9.0  | 10.8   | 11.2 |
| 34°   | 9.0  | 10.3   | 11.2 |
| 35°   | 8.5  | 10.3   | 10.8 |
| 36°   | 8.5  | 10.3   | 10.8 |
| 37°   | 8.5  | 10.3   | 11.2 |
| 38°   | 8.5  | 10.3   | 10.8 |
| 39°   | 8.1  | 10.3   | 10.8 |
| 40°   | 8.1  | 10.3   | 10.8 |
| 41°   | 8.1  | 10.3   | 10.8 |
| 42°   | 8.1  | 10.3   | 10.8 |
| 43°   | 8.1  | 10.3   | 10.8 |
| 44°   | 8.1  | 9.9    | 10.8 |
| 45°   | 8.1  | 9.9    | 10.8 |
| 46°   | 8.1  | 10.3   | 10.8 |
| 47°   | 8.1  | 10.3   | 11.2 |
| 48°   | 8.1  | 9.9    | 10.8 |
| 49°   | 7.6  | 9.9    | 10.8 |
| 50°   | 7.6  | 9.9    | 10.8 |
| 51°   | 7.6  | 10.3   | 11.2 |
| 52°   | 7.6  | 10.3   | 11.2 |
| 53°   | 7.6  | 10.3   | 11.2 |
| 54°   | 7.6  | 10.3   | 10.8 |
| 55°   | 7.6  | 10.3   | 11.2 |
| 56°   | 7.6  | 10.3   | 10.8 |
| 57°   | 7.6  | 10.3   | 10.8 |
| 58°   | 7.6  | 9.9    | 10.8 |
| 59°   | 7.6  | 9.9    | 10.8 |
| 60°   | 7.6  | 9.9    | 10.8 |
| 62.5° | 7.2  | 9.9    | 10.8 |
| 65°   | 7.2  | 9.4    | 10.3 |





TEST NUMBER: P1338432

CATALOG NUMBER: P3A05R359730DE010 E3CA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 6.7  | 9.4    | 9.9  |
| 70°   | 6.3  | 9.0    | 9.4  |
| 72.5° | 5.8  | 8.5    | 9.0  |
| 75°   | 5.4  | 7.6    | 8.1  |
| 77.5° | 4.5  | 6.7    | 7.6  |
| 80°   | 4.0  | 5.8    | 6.3  |
| 82.5° | 3.1  | 4.9    | 5.4  |
| 85°   | 2.2  | 3.6    | 3.6  |
| 87.5° | 0.9  | 1.8    | 1.8  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)