

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: P1305765

Luminaire Tested: P3SQASS09R359024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQASS09R359024DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

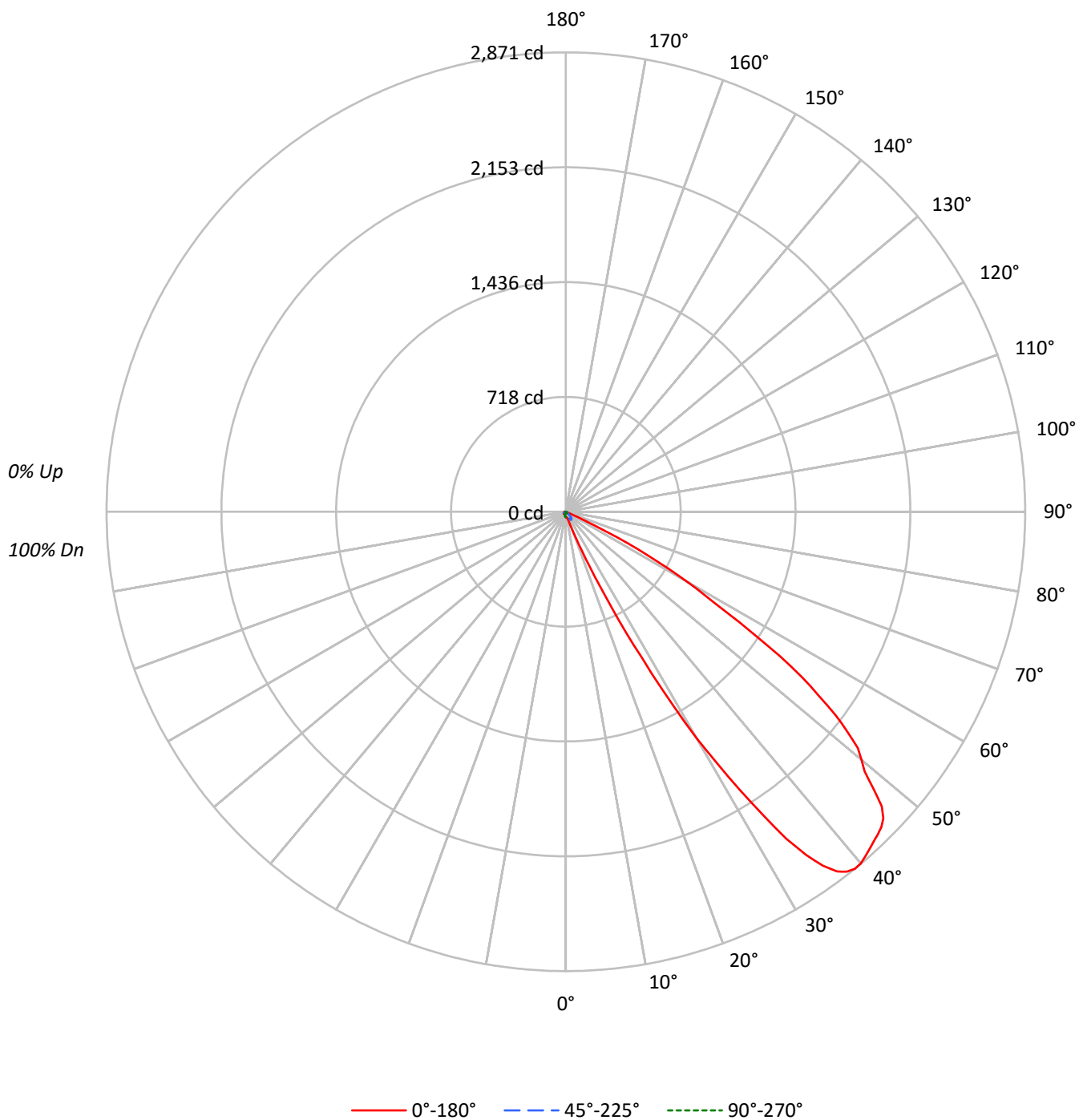
Lumens per Lamp: N/A  
Luminaire Lumens: 715.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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: P1305765

CATALOG NUMBER: P3SQASS09R359024DE010 E3SQCA451MMS

### Luminous Intensity Polar Plot



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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   | 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°  | 5666   | 5666  | 5666 | 5666 | 5666  |
| 5°  | 6137   | 6034  | 5584 | 5014 | 4910  |
| 10° | 6436   | 5876  | 4967 | 4285 | 4285  |
| 15° | 9200   | 5759  | 4030 | 3691 | 3798  |
| 20° | 23074  | 6158  | 3189 | 3189 | 3556  |
| 25° | 107080 | 7848  | 2451 | 2945 | 3306  |
| 30° | 325503 | 10659 | 1929 | 2705 | 3341  |
| 35° | 550127 | 12341 | 1619 | 2586 | 3259  |
| 40° | 644853 | 12185 | 1304 | 2608 | 3485  |
| 45° | 679117 | 8646  | 1096 | 2825 | 3775  |
| 50° | 646437 | 5198  | 1045 | 2947 | 4153  |
| 55° | 541671 | 2132  | 1171 | 3303 | 4834  |
| 60° | 303250 | 448   | 1343 | 3789 | 5339  |
| 65° | 52325  | 245   | 1304 | 4197 | 6031  |
| 70° | 957    | 302   | 1611 | 4532 | 6848  |
| 75° | 865    | 399   | 2129 | 5124 | 7719  |
| 80° | 595    | 595   | 2579 | 5752 | 8926  |
| 85° | 0      | 1186  | 5138 | 6323 | 10275 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 683924 cd/sqm

TEST NUMBER: P1305765

CATALOG NUMBER: P3SQASS09R359024DE010 E3SQCA451MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.0    | 0.4       |
| 10°-20°   | 8.4    | 1.2       |
| 20°-30°   | 43.9   | 6.1       |
| 30°-40°   | 189.5  | 26.5      |
| 40°-50°   | 270.3  | 37.8      |
| 50°-60°   | 167.4  | 23.4      |
| 60°-70°   | 25.5   | 3.6       |
| 70°-80°   | 4.7    | 0.7       |
| 80°-90°   | 2.4    | 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°    | 55.3   | 7.7       |
| 0°-40°    | 244.7  | 34.2      |
| 0°-60°    | 682.4  | 95.4      |
| 0°-90°    | 715.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 715.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 33   | 33  | 33  | 33   | 33   |      |
| 5°  | 36   | 35  | 32  | 29   | 28   | 3    |
| 15° | 52   | 32  | 23  | 21   | 21   | 19   |
| 25° | 564  | 41  | 13  | 16   | 17   | 337  |
| 35° | 2617 | 59  | 8   | 12   | 16   | 1571 |
| 45° | 2788 | 36  | 4   | 12   | 16   | 2107 |
| 55° | 1804 | 7   | 4   | 11   | 16   | 1536 |
| 65° | 128  | 1   | 3   | 10   | 15   | 262  |
| 75° | 1    | 1   | 3   | 8    | 12   | 1    |
| 85° | 0    | 1   | 3   | 3    | 5    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1305765

CATALOG NUMBER: P3SQASS09R359024DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|------|-------|------|--------|
| 0°    | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9   | 32.9  | 32.9 | 32.9  | 32.9 | 32.9   |
| 2.5°  | 34.2   | 34.2   | 34.2   | 34.2   | 34.2   | 34.2   | 34.2  | 34.2 | 34.2  | 32.9 | 32.3   |
| 5°    | 35.5   | 35.5   | 34.9   | 34.9   | 34.9   | 34.9   | 34.9  | 34.9 | 33.6  | 32.3 | 30.3   |
| 7.5°  | 36.1   | 36.1   | 35.5   | 35.5   | 35.5   | 35.5   | 34.9  | 34.2 | 32.9  | 30.3 | 28.4   |
| 10°   | 36.8   | 36.8   | 36.8   | 36.8   | 36.1   | 35.5   | 34.9  | 33.6 | 31.6  | 28.4 | 26.5   |
| 12.5° | 41.3   | 41.3   | 40.7   | 39.4   | 38.1   | 36.8   | 35.5  | 32.9 | 29.0  | 25.8 | 23.9   |
| 15°   | 51.6   | 51.0   | 49.7   | 47.8   | 45.2   | 42.0   | 39.4  | 32.3 | 26.5  | 22.6 | 21.3   |
| 17.5° | 72.3   | 71.0   | 69.1   | 62.6   | 56.8   | 51.0   | 45.8  | 32.3 | 23.9  | 20.0 | 18.7   |
| 20°   | 125.9  | 126.5  | 113.0  | 97.5   | 84.6   | 70.4   | 57.4  | 33.6 | 21.3  | 17.4 | 16.8   |
| 22.5° | 262.7  | 252.4  | 220.1  | 182.7  | 139.4  | 107.8  | 81.3  | 36.8 | 18.7  | 14.8 | 14.8   |
| 25°   | 563.5  | 524.1  | 446.0  | 336.9  | 237.5  | 168.5  | 118.1 | 41.3 | 16.8  | 12.9 | 13.6   |
| 27.5° | 1028.8 | 993.3  | 836.5  | 629.9  | 418.2  | 254.3  | 160.1 | 47.1 | 14.8  | 11.0 | 12.3   |
| 30°   | 1636.8 | 1538.7 | 1334.1 | 1032.7 | 699.0  | 389.2  | 214.9 | 53.6 | 12.3  | 9.7  | 11.6   |
| 31°   | 1826.6 | 1781.4 | 1532.3 | 1194.7 | 819.1  | 462.1  | 238.2 | 55.5 | 11.6  | 9.7  | 11.0   |
| 32°   | 2051.9 | 1971.8 | 1748.5 | 1372.2 | 941.1  | 527.3  | 265.9 | 57.4 | 11.0  | 8.4  | 11.0   |
| 33°   | 2253.2 | 2175.8 | 1904.0 | 1528.4 | 1064.3 | 601.6  | 295.6 | 58.1 | 9.7   | 8.4  | 10.3   |
| 34°   | 2464.9 | 2359.1 | 2089.9 | 1691.7 | 1190.8 | 681.6  | 322.7 | 58.7 | 9.0   | 7.7  | 10.3   |
| 35°   | 2616.6 | 2510.8 | 2250.0 | 1820.8 | 1299.9 | 752.6  | 353.7 | 58.7 | 8.4   | 7.7  | 9.7    |
| 36°   | 2734.1 | 2641.1 | 2388.1 | 1953.7 | 1408.4 | 816.5  | 378.2 | 58.7 | 7.1   | 7.1  | 9.7    |
| 37°   | 2814.8 | 2726.3 | 2481.1 | 2068.0 | 1491.0 | 873.3  | 400.2 | 58.7 | 6.5   | 7.1  | 9.7    |
| 38°   | 2854.1 | 2780.6 | 2570.8 | 2151.3 | 1571.0 | 917.8  | 417.6 | 57.4 | 5.8   | 6.5  | 9.0    |
| 39°   | 2870.9 | 2810.9 | 2625.7 | 2221.6 | 1631.0 | 956.5  | 430.5 | 56.2 | 5.2   | 6.5  | 9.0    |
| 40°   | 2868.3 | 2816.1 | 2656.6 | 2270.0 | 1679.4 | 983.0  | 437.6 | 54.2 | 4.5   | 5.8  | 9.0    |
| 41°   | 2853.5 | 2808.3 | 2672.8 | 2311.3 | 1708.5 | 1001.1 | 439.5 | 52.3 | 3.9   | 5.8  | 8.4    |
| 42°   | 2836.7 | 2795.4 | 2677.9 | 2333.3 | 1727.2 | 1006.9 | 434.4 | 49.7 | 3.9   | 5.2  | 8.4    |
| 43°   | 2819.3 | 2781.2 | 2677.9 | 2340.4 | 1731.7 | 1003.0 | 426.0 | 45.2 | 3.2   | 5.2  | 8.4    |
| 44°   | 2805.1 | 2768.9 | 2669.5 | 2338.4 | 1722.0 | 988.2  | 410.5 | 40.0 | 2.6   | 5.2  | 8.4    |
| 45°   | 2788.3 | 2752.8 | 2658.6 | 2326.2 | 1703.3 | 963.0  | 391.1 | 35.5 | 1.9   | 4.5  | 8.4    |
| 46°   | 2758.6 | 2730.9 | 2639.2 | 2301.0 | 1673.6 | 928.1  | 366.6 | 32.3 | 1.3   | 4.5  | 7.7    |
| 47°   | 2701.2 | 2677.3 | 2601.8 | 2263.6 | 1634.3 | 886.8  | 341.4 | 29.0 | 1.3   | 4.5  | 7.7    |
| 48°   | 2585.6 | 2585.0 | 2526.9 | 2193.9 | 1571.6 | 835.2  | 315.0 | 25.8 | 1.3   | 4.5  | 7.7    |
| 49°   | 2474.0 | 2462.4 | 2390.1 | 2071.2 | 1481.9 | 773.2  | 287.2 | 23.2 | 0.6   | 4.5  | 7.7    |
| 50°   | 2412.7 | 2387.5 | 2268.7 | 1926.6 | 1367.0 | 687.4  | 257.5 | 19.4 | 0.6   | 3.9  | 7.7    |
| 51°   | 2348.8 | 2312.6 | 2172.6 | 1796.3 | 1230.2 | 604.8  | 225.3 | 15.5 | 0.6   | 3.9  | 7.1    |
| 52°   | 2233.2 | 2199.0 | 2042.2 | 1671.7 | 1097.2 | 520.2  | 194.3 | 12.9 | 0.6   | 3.9  | 7.7    |
| 53°   | 2108.7 | 2059.6 | 1889.2 | 1534.9 | 980.4  | 445.4  | 162.7 | 11.0 | 0.6   | 3.9  | 7.1    |
| 54°   | 1951.8 | 1929.9 | 1734.3 | 1367.0 | 843.6  | 373.1  | 133.6 | 9.0  | 0.6   | 3.9  | 7.1    |
| 55°   | 1804.0 | 1771.7 | 1568.4 | 1195.4 | 719.7  | 305.9  | 111.7 | 7.1  | 0.6   | 3.9  | 7.1    |
| 56°   | 1615.5 | 1567.1 | 1376.7 | 1037.9 | 593.8  | 246.6  | 94.2  | 5.8  | 0.6   | 3.9  | 7.1    |
| 57°   | 1390.9 | 1339.3 | 1188.9 | 863.0  | 466.0  | 187.8  | 78.7  | 4.5  | 0.6   | 3.9  | 7.1    |
| 58°   | 1176.6 | 1132.1 | 970.7  | 666.1  | 351.1  | 130.4  | 65.2  | 3.2  | 0.6   | 3.2  | 7.1    |
| 59°   | 1016.6 | 967.5  | 807.4  | 512.5  | 244.0  | 96.2   | 49.1  | 2.6  | 0.6   | 3.9  | 7.1    |
| 60°   | 880.4  | 817.1  | 650.0  | 396.9  | 174.3  | 69.1   | 36.1  | 1.3  | 1.3   | 3.9  | 7.1    |
| 62.5° | 507.3  | 447.9  | 310.5  | 161.4  | 71.6   | 35.5   | 17.4  | 0.6  | 1.3   | 3.9  | 7.1    |
| 65°   | 128.4  | 114.2  | 74.2   | 34.9   | 20.0   | 12.3   | 6.5   | 0.6  | 1.3   | 3.2  | 6.5    |



TEST NUMBER: P1305765

CATALOG NUMBER: P3SQASS09R359024DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 4.5 | 4.5 | 4.5 | 3.9 | 3.2 | 2.6 | 1.3 | 0.6 | 1.3   | 3.2 | 6.5    |
| 70°   | 1.9 | 1.9 | 1.9 | 1.3 | 1.3 | 0.6 | 0.6 | 0.6 | 1.3   | 3.2 | 5.8    |
| 72.5° | 1.3 | 1.3 | 1.3 | 1.3 | 0.6 | 0.6 | 0.6 | 0.6 | 1.9   | 3.2 | 5.2    |
| 75°   | 1.3 | 1.3 | 1.3 | 1.3 | 0.6 | 0.6 | 0.6 | 0.6 | 1.9   | 3.2 | 5.2    |
| 77.5° | 1.3 | 1.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.9   | 2.6 | 4.5    |
| 80°   | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.9   | 2.6 | 3.9    |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.9   | 2.6 | 3.2    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 1.9   | 2.6 | 2.6    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.9   | 2.6 | 1.9    |
| 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: P1305765

CATALOG NUMBER: P3SQASS09R359024DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 32.9 | 32.9   | 32.9 |
| 2.5°  | 31.0 | 31.0   | 31.0 |
| 5°    | 29.0 | 29.0   | 28.4 |
| 7.5°  | 27.1 | 26.5   | 26.5 |
| 10°   | 24.5 | 24.5   | 24.5 |
| 12.5° | 22.6 | 22.6   | 22.6 |
| 15°   | 20.7 | 21.3   | 21.3 |
| 17.5° | 18.7 | 20.0   | 20.0 |
| 20°   | 17.4 | 18.7   | 19.4 |
| 22.5° | 16.1 | 17.4   | 18.1 |
| 25°   | 15.5 | 16.8   | 17.4 |
| 27.5° | 14.2 | 16.1   | 17.4 |
| 30°   | 13.6 | 15.5   | 16.8 |
| 31°   | 13.6 | 15.5   | 16.1 |
| 32°   | 12.9 | 15.5   | 16.1 |
| 33°   | 12.9 | 15.5   | 16.1 |
| 34°   | 12.9 | 14.8   | 16.1 |
| 35°   | 12.3 | 14.8   | 15.5 |
| 36°   | 12.3 | 14.8   | 15.5 |
| 37°   | 12.3 | 14.8   | 16.1 |
| 38°   | 12.3 | 14.8   | 15.5 |
| 39°   | 11.6 | 14.8   | 15.5 |
| 40°   | 11.6 | 14.8   | 15.5 |
| 41°   | 11.6 | 14.8   | 15.5 |
| 42°   | 11.6 | 14.8   | 15.5 |
| 43°   | 11.6 | 14.8   | 15.5 |
| 44°   | 11.6 | 14.2   | 15.5 |
| 45°   | 11.6 | 14.2   | 15.5 |
| 46°   | 11.6 | 14.8   | 15.5 |
| 47°   | 11.6 | 14.8   | 16.1 |
| 48°   | 11.6 | 14.2   | 15.5 |
| 49°   | 11.0 | 14.2   | 15.5 |
| 50°   | 11.0 | 14.2   | 15.5 |
| 51°   | 11.0 | 14.8   | 16.1 |
| 52°   | 11.0 | 14.8   | 16.1 |
| 53°   | 11.0 | 14.8   | 16.1 |
| 54°   | 11.0 | 14.8   | 15.5 |
| 55°   | 11.0 | 14.8   | 16.1 |
| 56°   | 11.0 | 14.8   | 15.5 |
| 57°   | 11.0 | 14.8   | 15.5 |
| 58°   | 11.0 | 14.2   | 15.5 |
| 59°   | 11.0 | 14.2   | 15.5 |
| 60°   | 11.0 | 14.2   | 15.5 |
| 62.5° | 10.3 | 14.2   | 15.5 |
| 65°   | 10.3 | 13.6   | 14.8 |



TEST NUMBER: P1305765

CATALOG NUMBER: P3SQASS09R359024DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 9.7  | 13.6   | 14.2 |
| 70°   | 9.0  | 12.9   | 13.6 |
| 72.5° | 8.4  | 12.3   | 12.9 |
| 75°   | 7.7  | 11.0   | 11.6 |
| 77.5° | 6.5  | 9.7    | 11.0 |
| 80°   | 5.8  | 8.4    | 9.0  |
| 82.5° | 4.5  | 7.1    | 7.7  |
| 85°   | 3.2  | 5.2    | 5.2  |
| 87.5° | 1.3  | 2.6    | 2.6  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)