

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: P1314412

Luminaire Tested: P3SQAS13R409735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R409735DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

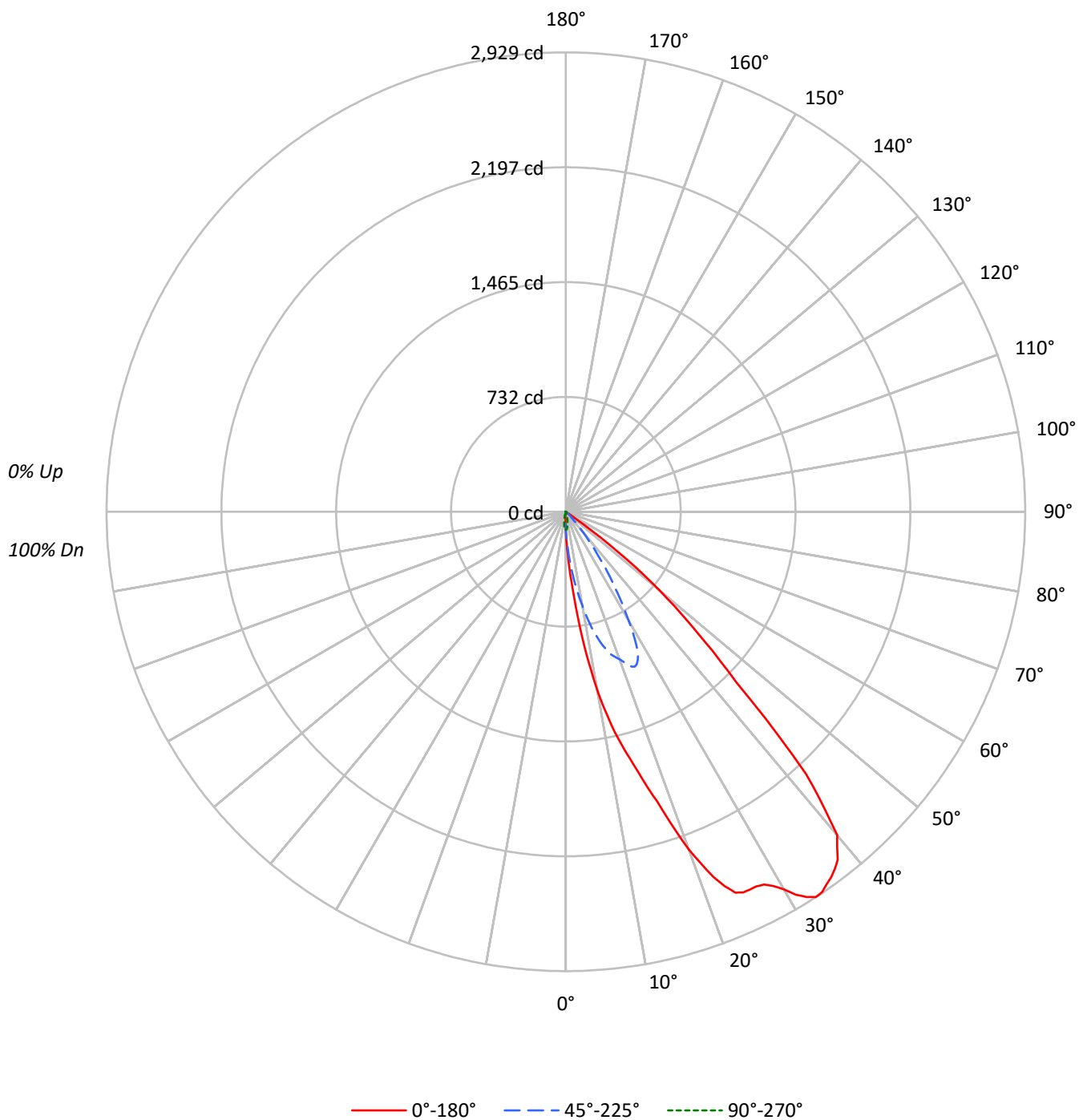
Lumens per Lamp: N/A  
Luminaire Lumens: 983.0 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1314412

CATALOG NUMBER: P3SQAS13R409735DE010 E3SQCA301MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1314412

CATALOG NUMBER: P3SQAS13R409735DE010 E3SQCA301MMS

**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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 51  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 19806  | 19806  | 19806 | 19806 | 19806 |
| 5°  | 84037  | 57275  | 17374 | 3129  | 1573  |
| 10° | 202003 | 106554 | 10773 | 315   | 0     |
| 15° | 297312 | 154798 | 4511  | 0     | 0     |
| 20° | 420269 | 183495 | 1668  | 0     | 0     |
| 25° | 509024 | 203690 | 0     | 0     | 0     |
| 30° | 552687 | 159331 | 0     | 0     | 0     |
| 35° | 609437 | 93265  | 0     | 0     | 0     |
| 40° | 604880 | 37860  | 0     | 0     | 0     |
| 45° | 374619 | 11033  | 0     | 0     | 0     |
| 50° | 208584 | 241    | 0     | 0     | 0     |
| 55° | 20388  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 310   | 0     | 0     |
| 65° | 0      | 0      | 367   | 0     | 0     |
| 70° | 0      | 453    | 906   | 0     | 0     |
| 75° | 0      | 599    | 1198  | 0     | 0     |
| 80° | 0      | 893    | 1785  | 0     | 0     |
| 85° | 0      | 1778   | 3557  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 376373 cd/sqm

TEST NUMBER: P1314412

CATALOG NUMBER: P3SQAS13R409735DE010 E3SQCA301MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.5   | 2.2       |
| 10°-20°   | 126.7  | 12.9      |
| 20°-30°   | 289.2  | 29.4      |
| 30°-40°   | 341.5  | 34.7      |
| 40°-50°   | 182.5  | 18.6      |
| 50°-60°   | 19.8   | 2.0       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.6    | 0.1       |
| 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°    | 437.5  | 44.5      |
| 0°-40°    | 779.0  | 79.2      |
| 0°-60°    | 981.3  | 99.8      |
| 0°-90°    | 983.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 983.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 115  | 115  | 115 | 115  | 115  |      |
| 5°  | 486  | 331  | 100 | 18   | 9    | 68   |
| 15° | 1668 | 868  | 25  | 0    | 0    | 495  |
| 25° | 2679 | 1072 | 0   | 0    | 0    | 1216 |
| 35° | 2899 | 444  | 0   | 0    | 0    | 1790 |
| 45° | 1538 | 45   | 0   | 0    | 0    | 1268 |
| 55° | 68   | 0    | 0   | 0    | 0    | 190  |
| 65° | 0    | 0    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 2   | 0    | 0    | 0    |
| 85° | 0    | 1    | 2   | 0    | 0    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1314412

CATALOG NUMBER: P3SQAS13R409735DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 115.0  | 115.0  | 115.0  | 115.0  | 115.0  | 115.0  | 115.0  | 115.0  | 115.0  | 115.0 | 115.0 |
| 2.5°  | 268.0  | 262.5  | 266.2  | 258.9  | 258.9  | 242.6  | 243.5  | 229.9  | 210.0  | 160.2 | 114.1 |
| 5°    | 486.1  | 507.9  | 490.7  | 468.0  | 455.4  | 439.1  | 417.3  | 394.7  | 331.3  | 200.1 | 100.5 |
| 7.5°  | 813.9  | 812.0  | 783.1  | 758.6  | 730.6  | 687.1  | 646.4  | 591.2  | 471.7  | 229.0 | 83.3  |
| 10°   | 1155.1 | 1148.8 | 1116.2 | 1095.4 | 1042.0 | 979.5  | 896.2  | 807.5  | 609.3  | 239.0 | 61.6  |
| 12.5° | 1439.4 | 1431.3 | 1404.1 | 1368.8 | 1310.0 | 1231.2 | 1141.6 | 1024.8 | 754.1  | 228.1 | 39.8  |
| 15°   | 1667.5 | 1665.7 | 1639.5 | 1591.5 | 1529.9 | 1453.0 | 1351.6 | 1211.3 | 868.2  | 200.1 | 25.3  |
| 17.5° | 1938.2 | 1949.1 | 1902.0 | 1850.4 | 1761.7 | 1654.0 | 1529.9 | 1369.7 | 952.4  | 165.7 | 16.3  |
| 20°   | 2293.1 | 2277.7 | 2234.2 | 2159.1 | 2074.0 | 1944.6 | 1768.9 | 1539.9 | 1001.2 | 128.6 | 9.1   |
| 21°   | 2401.7 | 2395.4 | 2350.1 | 2280.4 | 2186.3 | 2055.0 | 1873.9 | 1626.8 | 1023.9 | 115.0 | 7.2   |
| 22°   | 2512.2 | 2501.3 | 2466.0 | 2398.1 | 2309.4 | 2160.9 | 1961.8 | 1716.4 | 1052.8 | 100.5 | 4.5   |
| 23°   | 2594.6 | 2590.0 | 2562.9 | 2495.9 | 2404.4 | 2260.5 | 2056.8 | 1799.7 | 1072.8 | 86.9  | 2.7   |
| 24°   | 2657.9 | 2652.5 | 2625.3 | 2574.6 | 2495.9 | 2345.6 | 2152.8 | 1889.3 | 1080.9 | 75.1  | 0.9   |
| 25°   | 2678.7 | 2681.5 | 2665.2 | 2625.3 | 2559.2 | 2409.0 | 2224.3 | 1959.9 | 1071.9 | 64.3  | 0.0   |
| 26°   | 2679.7 | 2687.8 | 2676.0 | 2653.4 | 2599.1 | 2459.7 | 2291.3 | 2001.6 | 1048.3 | 54.3  | 0.0   |
| 27°   | 2679.7 | 2687.8 | 2676.0 | 2658.8 | 2605.4 | 2488.6 | 2327.5 | 2006.1 | 1012.1 | 46.2  | 0.0   |
| 28°   | 2692.3 | 2696.9 | 2681.5 | 2660.6 | 2602.7 | 2497.7 | 2337.5 | 1979.0 | 954.2  | 39.8  | 0.0   |
| 29°   | 2727.6 | 2723.1 | 2697.8 | 2669.7 | 2600.0 | 2497.7 | 2307.6 | 1927.4 | 881.7  | 33.5  | 0.0   |
| 30°   | 2779.2 | 2779.2 | 2739.4 | 2695.0 | 2612.7 | 2496.8 | 2259.6 | 1834.1 | 801.2  | 27.2  | 0.0   |
| 31°   | 2848.9 | 2842.6 | 2802.8 | 2736.7 | 2639.8 | 2496.8 | 2189.0 | 1730.9 | 726.9  | 23.5  | 0.0   |
| 32°   | 2896.0 | 2892.4 | 2854.4 | 2776.5 | 2684.2 | 2496.8 | 2112.9 | 1616.8 | 646.4  | 19.0  | 0.0   |
| 33°   | 2928.6 | 2921.4 | 2877.9 | 2797.3 | 2711.3 | 2484.1 | 2027.8 | 1494.6 | 574.0  | 15.4  | 0.0   |
| 34°   | 2924.1 | 2922.3 | 2877.0 | 2793.7 | 2705.9 | 2431.6 | 1929.2 | 1358.8 | 507.0  | 12.7  | 0.0   |
| 35°   | 2898.7 | 2898.7 | 2843.5 | 2757.5 | 2667.0 | 2354.7 | 1831.4 | 1243.0 | 443.6  | 9.1   | 0.0   |
| 36°   | 2879.7 | 2872.5 | 2810.0 | 2714.1 | 2601.8 | 2233.3 | 1686.6 | 1126.2 | 375.7  | 7.2   | 0.0   |
| 37°   | 2851.7 | 2838.1 | 2768.4 | 2665.2 | 2509.5 | 2102.1 | 1534.5 | 1022.1 | 317.8  | 4.5   | 0.0   |
| 38°   | 2815.4 | 2794.6 | 2709.5 | 2608.1 | 2408.1 | 1950.9 | 1379.7 | 905.3  | 264.3  | 2.7   | 0.0   |
| 39°   | 2749.4 | 2732.2 | 2644.3 | 2534.8 | 2286.8 | 1791.6 | 1229.4 | 795.7  | 213.6  | 0.9   | 0.0   |
| 40°   | 2690.5 | 2660.6 | 2561.1 | 2435.2 | 2144.6 | 1611.4 | 1080.0 | 688.0  | 168.4  | 0.0   | 0.0   |
| 42.5° | 2268.7 | 2237.0 | 2214.3 | 2089.4 | 1708.3 | 1157.0 | 754.1  | 440.9  | 87.8   | 0.0   | 0.0   |
| 45°   | 1538.1 | 1545.3 | 1474.7 | 1390.5 | 1127.1 | 754.1  | 471.7  | 245.3  | 45.3   | 0.0   | 0.0   |
| 47.5° | 1121.7 | 1102.6 | 1006.7 | 847.3  | 660.9  | 440.9  | 246.2  | 118.6  | 18.1   | 0.0   | 0.0   |
| 50°   | 778.5  | 742.3  | 655.4  | 535.9  | 359.4  | 210.0  | 108.6  | 55.2   | 0.9    | 0.0   | 0.0   |
| 52.5° | 422.8  | 397.4  | 336.8  | 244.4  | 149.4  | 80.6   | 43.5   | 22.6   | 0.0    | 0.0   | 0.0   |
| 55°   | 67.9   | 47.1   | 48.9   | 41.6   | 32.6   | 23.5   | 13.6   | 2.7    | 0.0    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.0    | 0.0    | 0.0    | 0.9   | 0.9   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9   | 0.9   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9   | 0.9   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9   | 0.9   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8   | 1.8   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 1.8   | 1.8   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 1.8   | 1.8   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 1.8   | 1.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 1.8   | 1.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 0.9    | 1.8   | 1.8   |



TEST NUMBER: P1314412

CATALOG NUMBER: P3SQAS13R409735DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 1.8   | 1.8 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 1.8   | 1.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 1.8   | 1.8 |
| 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: P1314412

CATALOG NUMBER: P3SQAS13R409735DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 115.0  | 115.0 | 115.0  | 115.0 |
| 2.5°  | 76.9   | 52.5  | 39.8   | 34.4  |
| 5°    | 44.4   | 18.1  | 10.0   | 9.1   |
| 7.5°  | 21.7   | 6.3   | 3.6    | 3.6   |
| 10°   | 9.1    | 1.8   | 0.0    | 0.0   |
| 12.5° | 2.7    | 0.0   | 0.0    | 0.0   |
| 15°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 17.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 20°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 21°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 23°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 24°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 26°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 28°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 29°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 31°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 33°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 34°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 36°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 38°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 39°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.9    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.9    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.9    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.9    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.9    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.9    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.9    | 0.0   | 0.0    | 0.0   |





TEST NUMBER: P1314412

CATALOG NUMBER: P3SQAS13R409735DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.9    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.9    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.9    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)