

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: P1306918

Luminaire Tested: P3SQAS13R409027DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306918  
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: P3SQAS13R409027DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

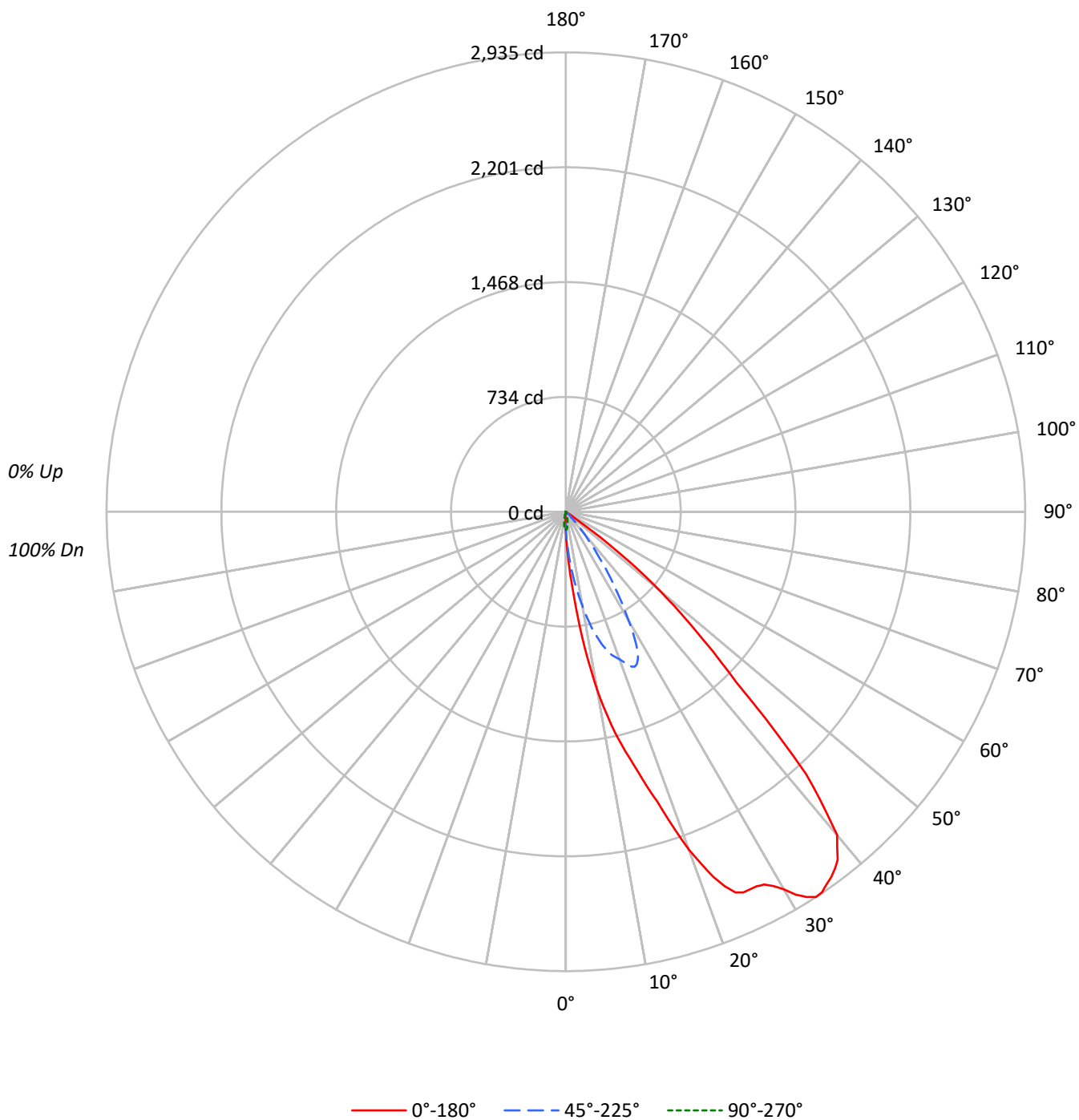
Lumens per Lamp: N/A  
Luminaire Lumens: 985.0 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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### 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  | 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°  | 19840  | 19840  | 19840 | 19840 | 19840 |
| 5°  | 84210  | 57396  | 17409 | 3129  | 1573  |
| 10° | 202423 | 106764 | 10790 | 315   | 0     |
| 15° | 297918 | 155101 | 4529  | 0     | 0     |
| 20° | 421130 | 183880 | 1668  | 0     | 0     |
| 25° | 510070 | 204089 | 0     | 0     | 0     |
| 30° | 553821 | 159649 | 0     | 0     | 0     |
| 35° | 610678 | 93454  | 0     | 0     | 0     |
| 40° | 606117 | 37927  | 0     | 0     | 0     |
| 45° | 375374 | 11058  | 0     | 0     | 0     |
| 50° | 209013 | 241    | 0     | 0     | 0     |
| 55° | 20418  | 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: 377152 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 21.6   | 2.2       |
| 10°-20°   | 127.0  | 12.9      |
| 20°-30°   | 289.8  | 29.4      |
| 30°-40°   | 342.2  | 34.7      |
| 40°-50°   | 182.8  | 18.6      |
| 50°-60°   | 19.9   | 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       |
| <hr/>     |        |           |
| 0°-30°    | 438.4  | 44.5      |
| 0°-40°    | 780.6  | 79.2      |
| 0°-60°    | 983.3  | 99.8      |
| 0°-90°    | 985.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 985.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 115  | 115  | 115 | 115  | 115  |      |
| 5°  | 487  | 332  | 101 | 18   | 9    | 68   |
| 15° | 1671 | 870  | 25  | 0    | 0    | 496  |
| 25° | 2684 | 1074 | 0   | 0    | 0    | 1219 |
| 35° | 2905 | 444  | 0   | 0    | 0    | 1794 |
| 45° | 1541 | 45   | 0   | 0    | 0    | 1271 |
| 55° | 68   | 0    | 0   | 0    | 0    | 191  |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 115.2  | 115.2  | 115.2  | 115.2  | 115.2  | 115.2  | 115.2  | 115.2  | 115.2  | 115.2 | 115.2 |
| 2.5°  | 268.5  | 263.1  | 266.7  | 259.4  | 259.4  | 243.1  | 244.0  | 230.4  | 210.5  | 160.6 | 114.3 |
| 5°    | 487.1  | 508.9  | 491.7  | 469.0  | 456.3  | 440.0  | 418.2  | 395.5  | 332.0  | 200.5 | 100.7 |
| 7.5°  | 815.5  | 813.7  | 784.7  | 760.2  | 732.1  | 688.5  | 647.7  | 592.4  | 472.6  | 229.5 | 83.5  |
| 10°   | 1157.5 | 1151.1 | 1118.5 | 1097.6 | 1044.1 | 981.5  | 898.1  | 809.2  | 610.5  | 239.5 | 61.7  |
| 12.5° | 1442.3 | 1434.2 | 1407.0 | 1371.6 | 1312.6 | 1233.7 | 1143.9 | 1026.9 | 755.6  | 228.6 | 39.9  |
| 15°   | 1670.9 | 1669.1 | 1642.8 | 1594.7 | 1533.0 | 1455.9 | 1354.3 | 1213.7 | 869.9  | 200.5 | 25.4  |
| 17.5° | 1942.2 | 1953.0 | 1905.9 | 1854.2 | 1765.3 | 1657.3 | 1533.0 | 1372.5 | 954.3  | 166.0 | 16.3  |
| 20°   | 2297.8 | 2282.3 | 2238.8 | 2163.5 | 2078.2 | 1948.5 | 1772.5 | 1543.0 | 1003.3 | 128.8 | 9.1   |
| 21°   | 2406.6 | 2400.3 | 2354.9 | 2285.1 | 2190.7 | 2059.2 | 1877.8 | 1630.1 | 1026.0 | 115.2 | 7.3   |
| 22°   | 2517.3 | 2506.4 | 2471.0 | 2403.0 | 2314.1 | 2165.3 | 1965.7 | 1719.9 | 1055.0 | 100.7 | 4.5   |
| 23°   | 2599.8 | 2595.3 | 2568.1 | 2501.0 | 2409.3 | 2265.1 | 2061.0 | 1803.4 | 1074.9 | 87.1  | 2.7   |
| 24°   | 2663.3 | 2657.9 | 2630.7 | 2579.9 | 2501.0 | 2350.4 | 2157.2 | 1893.2 | 1083.1 | 75.3  | 0.9   |
| 25°   | 2684.2 | 2686.9 | 2670.6 | 2630.7 | 2564.5 | 2413.9 | 2228.8 | 1963.9 | 1074.0 | 64.4  | 0.0   |
| 26°   | 2685.1 | 2693.3 | 2681.5 | 2658.8 | 2604.4 | 2464.7 | 2295.9 | 2005.7 | 1050.5 | 54.4  | 0.0   |
| 27°   | 2685.1 | 2693.3 | 2681.5 | 2664.2 | 2610.7 | 2493.7 | 2332.2 | 2010.2 | 1014.2 | 46.3  | 0.0   |
| 28°   | 2697.8 | 2702.3 | 2686.9 | 2666.1 | 2608.0 | 2502.8 | 2342.2 | 1983.0 | 956.1  | 39.9  | 0.0   |
| 29°   | 2733.2 | 2728.6 | 2703.2 | 2675.1 | 2605.3 | 2502.8 | 2312.3 | 1931.3 | 883.5  | 33.6  | 0.0   |
| 30°   | 2784.9 | 2784.9 | 2745.0 | 2700.5 | 2618.0 | 2501.9 | 2264.2 | 1837.8 | 802.8  | 27.2  | 0.0   |
| 31°   | 2854.7 | 2848.4 | 2808.5 | 2742.3 | 2645.2 | 2501.9 | 2193.4 | 1734.4 | 728.4  | 23.6  | 0.0   |
| 32°   | 2901.9 | 2898.3 | 2860.2 | 2782.2 | 2689.6 | 2501.9 | 2117.2 | 1620.1 | 647.7  | 19.0  | 0.0   |
| 33°   | 2934.6 | 2927.3 | 2883.8 | 2803.0 | 2716.9 | 2489.2 | 2032.0 | 1497.7 | 575.1  | 15.4  | 0.0   |
| 34°   | 2930.0 | 2928.2 | 2882.9 | 2799.4 | 2711.4 | 2436.5 | 1933.1 | 1361.6 | 508.0  | 12.7  | 0.0   |
| 35°   | 2904.6 | 2904.6 | 2849.3 | 2763.1 | 2672.4 | 2359.4 | 1835.1 | 1245.5 | 444.5  | 9.1   | 0.0   |
| 36°   | 2885.6 | 2878.3 | 2815.7 | 2719.6 | 2607.1 | 2237.9 | 1690.0 | 1128.5 | 376.5  | 7.3   | 0.0   |
| 37°   | 2857.5 | 2843.9 | 2774.0 | 2670.6 | 2514.6 | 2106.4 | 1537.6 | 1024.1 | 318.4  | 4.5   | 0.0   |
| 38°   | 2821.2 | 2800.3 | 2715.0 | 2613.4 | 2413.0 | 1954.9 | 1382.5 | 907.1  | 264.9  | 2.7   | 0.0   |
| 39°   | 2755.0 | 2737.7 | 2649.7 | 2540.0 | 2291.4 | 1795.2 | 1231.9 | 797.4  | 214.1  | 0.9   | 0.0   |
| 40°   | 2696.0 | 2666.1 | 2566.3 | 2440.2 | 2149.0 | 1614.7 | 1082.2 | 689.4  | 168.7  | 0.0   | 0.0   |
| 42.5° | 2273.3 | 2241.5 | 2218.8 | 2093.7 | 1711.8 | 1159.3 | 755.6  | 441.8  | 88.0   | 0.0   | 0.0   |
| 45°   | 1541.2 | 1548.5 | 1477.7 | 1393.4 | 1129.4 | 755.6  | 472.6  | 245.8  | 45.4   | 0.0   | 0.0   |
| 47.5° | 1123.9 | 1104.9 | 1008.7 | 849.1  | 662.2  | 441.8  | 246.7  | 118.8  | 18.1   | 0.0   | 0.0   |
| 50°   | 780.1  | 743.8  | 656.8  | 537.0  | 360.1  | 210.5  | 108.9  | 55.3   | 0.9    | 0.0   | 0.0   |
| 52.5° | 423.6  | 398.2  | 337.5  | 244.9  | 149.7  | 80.7   | 43.5   | 22.7   | 0.0    | 0.0   | 0.0   |
| 55°   | 68.0   | 47.2   | 49.0   | 41.7   | 32.7   | 23.6   | 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   |



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**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 |

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CATALOG NUMBER: P3SQAS13R409027DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 115.2  | 115.2 | 115.2  | 115.2 |
| 2.5°  | 77.1   | 52.6  | 39.9   | 34.5  |
| 5°    | 44.4   | 18.1  | 10.0   | 9.1   |
| 7.5°  | 21.8   | 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: P1306918

CATALOG NUMBER: P3SQAS13R409027DE010 E3SQCA301MB

**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)