

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: P1312788

Luminaire Tested: P3SQAS20R509727D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R509727D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

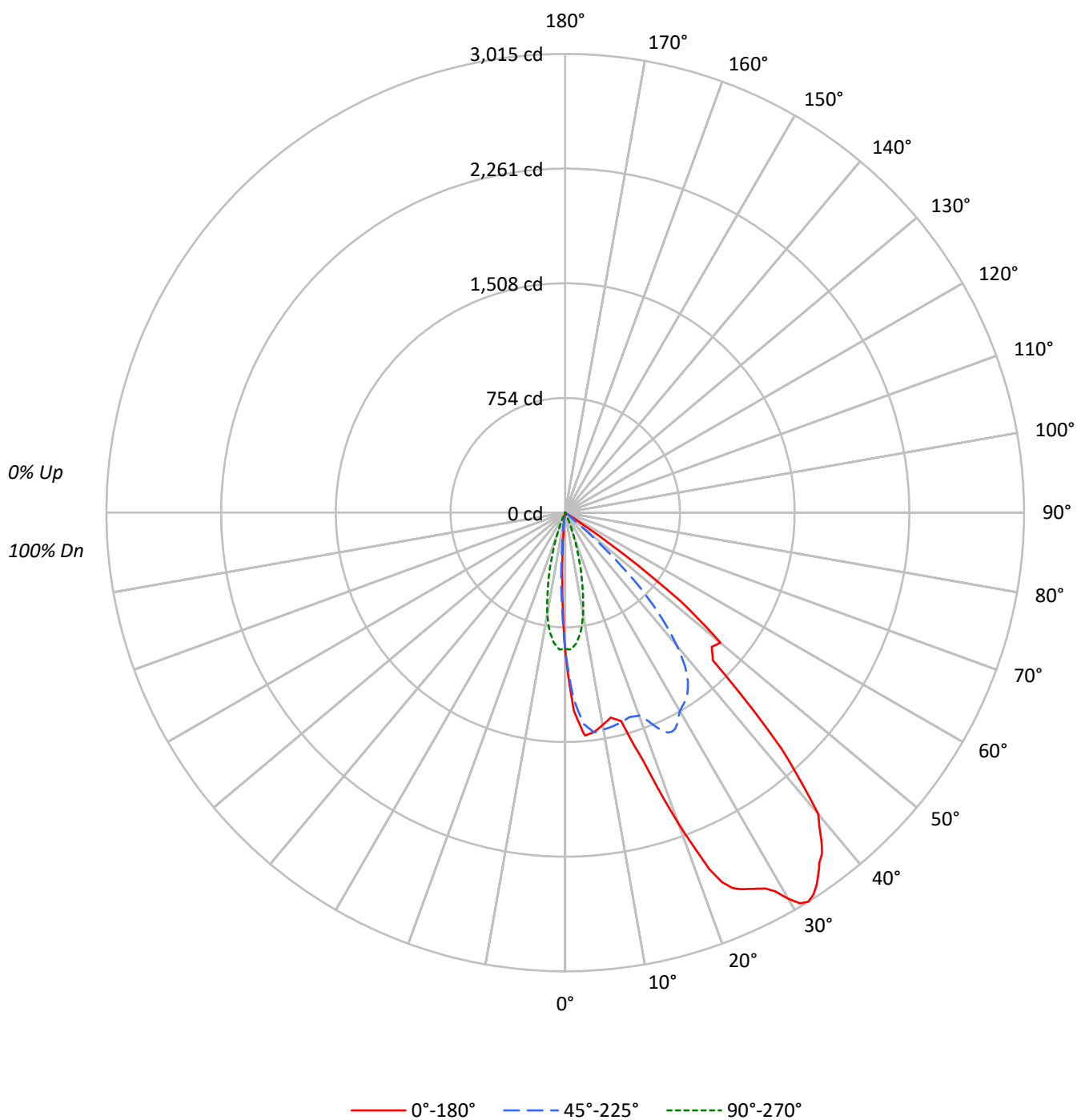
Lumens per Lamp: N/A  
Luminaire Lumens: 1443.0 lumens  
Efficiency: N/A  
Efficacy: 50.1 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 154294 | 154294 | 154294 | 154294 | 154294 |
| 5°  | 254238 | 241272 | 148280 | 44050  | 22025  |
| 10° | 247769 | 253208 | 118813 | 2221   | 2973   |
| 15° | 252613 | 254128 | 71159  | 2264   | 749    |
| 20° | 398184 | 260178 | 29306  | 0      | 0      |
| 25° | 519096 | 303112 | 6993   | 0      | 0      |
| 30° | 582636 | 299770 | 278    | 0      | 0      |
| 35° | 609732 | 295205 | 0      | 0      | 0      |
| 40° | 581679 | 256475 | 0      | 0      | 0      |
| 45° | 334042 | 169250 | 0      | 0      | 0      |
| 50° | 356482 | 19345  | 0      | 0      | 0      |
| 55° | 101578 | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 482    | 0      | 0      |
| 65° | 0      | 571    | 571    | 0      | 0      |
| 70° | 0      | 705    | 705    | 0      | 0      |
| 75° | 0      | 932    | 932    | 0      | 0      |
| 80° | 0      | 1389   | 2777   | 1389   | 0      |
| 85° | 0      | 2766   | 5533   | 2766   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 368871 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.2   | 5.2       |
| 10°-20°   | 189.6  | 13.1      |
| 20°-30°   | 364.1  | 25.2      |
| 30°-40°   | 423.8  | 29.4      |
| 40°-50°   | 303.3  | 21.0      |
| 50°-60°   | 84.4   | 5.9       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 1.0    | 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°    | 628.9  | 43.6      |
| 0°-40°    | 1052.8 | 73.0      |
| 0°-60°    | 1440.5 | 99.8      |
| 0°-90°    | 1443.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1443.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 896  | 896  | 896 | 896  | 896  |      |
| 5°  | 1471 | 1396 | 858 | 255  | 127  | 135  |
| 15° | 1417 | 1425 | 399 | 13   | 4    | 457  |
| 25° | 2732 | 1595 | 37  | 0    | 0    | 1243 |
| 35° | 2900 | 1404 | 0   | 0    | 0    | 1794 |
| 45° | 1372 | 695  | 0   | 0    | 0    | 1290 |
| 55° | 338  | 0    | 0   | 0    | 0    | 426  |
| 65° | 0    | 1    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 1   | 0    | 0    | 0    |
| 85° | 0    | 1    | 3   | 1    | 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°    | 895.9  | 895.9  | 895.9  | 895.9  | 895.9  | 895.9  | 895.9  | 895.9  | 895.9  | 895.9  | 895.9 |
| 2.5°  | 1302.1 | 1309.2 | 1310.6 | 1293.7 | 1296.5 | 1272.4 | 1273.8 | 1256.9 | 1215.8 | 1072.9 | 900.2 |
| 5°    | 1470.6 | 1466.3 | 1470.6 | 1464.9 | 1470.6 | 1456.4 | 1447.9 | 1440.9 | 1395.6 | 1193.2 | 857.7 |
| 7.5°  | 1455.0 | 1449.3 | 1457.8 | 1460.7 | 1470.6 | 1466.3 | 1467.7 | 1472.0 | 1456.4 | 1258.3 | 785.5 |
| 10°   | 1416.8 | 1415.4 | 1419.6 | 1419.6 | 1430.9 | 1432.4 | 1438.0 | 1446.5 | 1447.9 | 1280.9 | 679.4 |
| 12.5° | 1380.0 | 1375.7 | 1375.7 | 1374.3 | 1380.0 | 1378.6 | 1392.7 | 1412.5 | 1439.4 | 1266.8 | 533.6 |
| 15°   | 1416.8 | 1412.5 | 1406.9 | 1391.3 | 1380.0 | 1367.3 | 1368.7 | 1381.4 | 1425.3 | 1230.0 | 399.1 |
| 17.5° | 1714.0 | 1691.4 | 1663.1 | 1613.5 | 1561.2 | 1470.6 | 1416.8 | 1382.8 | 1408.3 | 1173.3 | 266.1 |
| 20°   | 2172.6 | 2162.7 | 2117.4 | 2036.7 | 1951.8 | 1818.8 | 1653.2 | 1520.1 | 1419.6 | 1102.6 | 159.9 |
| 21°   | 2346.7 | 2341.0 | 2292.9 | 2217.9 | 2121.6 | 1960.3 | 1790.5 | 1630.5 | 1442.3 | 1072.9 | 126.0 |
| 22°   | 2525.0 | 2503.8 | 2465.6 | 2382.1 | 2281.6 | 2120.2 | 1930.6 | 1753.7 | 1487.6 | 1034.6 | 96.2  |
| 23°   | 2639.7 | 2626.9 | 2585.9 | 2519.4 | 2423.1 | 2266.0 | 2072.1 | 1879.6 | 1531.4 | 992.2  | 72.2  |
| 24°   | 2699.1 | 2694.9 | 2662.3 | 2615.6 | 2533.5 | 2373.6 | 2189.6 | 1991.4 | 1568.2 | 942.6  | 52.4  |
| 25°   | 2731.7 | 2717.5 | 2697.7 | 2663.7 | 2601.5 | 2462.8 | 2298.6 | 2089.1 | 1595.1 | 893.1  | 36.8  |
| 26°   | 2751.5 | 2743.0 | 2711.9 | 2682.1 | 2622.7 | 2509.5 | 2369.3 | 2148.5 | 1602.2 | 832.2  | 25.5  |
| 27°   | 2774.1 | 2754.3 | 2724.6 | 2689.2 | 2622.7 | 2523.6 | 2396.2 | 2174.0 | 1593.7 | 770.0  | 17.0  |
| 28°   | 2798.2 | 2784.0 | 2743.0 | 2697.7 | 2618.4 | 2523.6 | 2386.3 | 2140.0 | 1568.2 | 710.5  | 9.9   |
| 29°   | 2844.9 | 2826.5 | 2775.6 | 2709.0 | 2619.9 | 2520.8 | 2348.1 | 2069.3 | 1534.3 | 644.0  | 5.7   |
| 30°   | 2929.8 | 2891.6 | 2829.3 | 2735.9 | 2629.8 | 2515.1 | 2284.4 | 1963.1 | 1507.4 | 569.0  | 1.4   |
| 31°   | 2996.4 | 2975.1 | 2902.9 | 2785.5 | 2658.1 | 2499.6 | 2209.4 | 1858.4 | 1489.0 | 503.9  | 0.0   |
| 32°   | 3014.8 | 2999.2 | 2946.8 | 2836.4 | 2706.2 | 2486.8 | 2124.5 | 1756.5 | 1474.8 | 431.7  | 0.0   |
| 33°   | 2993.5 | 2983.6 | 2928.4 | 2827.9 | 2718.9 | 2469.8 | 2026.8 | 1656.0 | 1459.3 | 366.6  | 0.0   |
| 34°   | 2953.9 | 2941.2 | 2893.0 | 2791.1 | 2686.4 | 2396.2 | 1933.4 | 1579.6 | 1436.6 | 305.7  | 0.0   |
| 35°   | 2900.1 | 2890.2 | 2840.7 | 2740.2 | 2626.9 | 2281.6 | 1840.0 | 1528.6 | 1404.1 | 244.9  | 0.0   |
| 36°   | 2842.1 | 2839.2 | 2775.6 | 2676.5 | 2550.5 | 2171.2 | 1726.8 | 1490.4 | 1371.5 | 193.9  | 0.0   |
| 37°   | 2803.9 | 2789.7 | 2720.4 | 2622.7 | 2459.9 | 2042.4 | 1636.2 | 1477.7 | 1326.2 | 150.0  | 0.0   |
| 38°   | 2734.5 | 2737.3 | 2658.1 | 2568.9 | 2367.9 | 1930.6 | 1562.6 | 1467.7 | 1275.3 | 109.0  | 0.0   |
| 39°   | 2652.4 | 2653.8 | 2571.7 | 2495.3 | 2258.9 | 1813.1 | 1501.7 | 1457.8 | 1211.6 | 69.4   | 0.0   |
| 40°   | 2587.3 | 2585.9 | 2492.5 | 2410.4 | 2141.5 | 1702.7 | 1469.2 | 1443.7 | 1140.8 | 39.6   | 0.0   |
| 42.5° | 2103.2 | 2111.7 | 2123.1 | 2157.0 | 1865.5 | 1508.8 | 1438.0 | 1364.4 | 939.8  | 0.0    | 0.0   |
| 45°   | 1371.5 | 1404.1 | 1412.5 | 1514.5 | 1513.0 | 1429.5 | 1364.4 | 1222.9 | 694.9  | 0.0    | 0.0   |
| 47.5° | 1305.0 | 1314.9 | 1333.3 | 1372.9 | 1394.1 | 1353.1 | 1220.1 | 1021.9 | 379.3  | 0.0    | 0.0   |
| 50°   | 1330.5 | 1329.0 | 1333.3 | 1333.3 | 1295.1 | 1188.9 | 1000.7 | 754.4  | 72.2   | 0.0    | 0.0   |
| 52.5° | 955.4  | 990.8  | 1029.0 | 1046.0 | 996.4  | 884.6  | 730.3  | 443.0  | 0.0    | 0.0    | 0.0   |
| 55°   | 338.3  | 327.0  | 318.5  | 348.2  | 341.1  | 383.6  | 317.0  | 103.3  | 0.0    | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.4    | 5.7    | 12.7   | 17.0   | 0.0    | 0.0    | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 1.4    | 2.8   |



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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 | 1.4 | 1.4 | 1.4   | 2.8 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4   | 2.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4   | 2.8 |
| 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: P1312788

CATALOG NUMBER: P3SQAS20R509727D010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 895.9  | 895.9 | 895.9  | 895.9 |
| 2.5°  | 717.6  | 550.6 | 445.8  | 452.9 |
| 5°    | 503.9  | 254.8 | 157.1  | 127.4 |
| 7.5°  | 301.5  | 77.8  | 15.6   | 12.7  |
| 10°   | 141.5  | 12.7  | 14.2   | 17.0  |
| 12.5° | 42.5   | 11.3  | 15.6   | 14.2  |
| 15°   | 11.3   | 12.7  | 7.1    | 4.2   |
| 17.5° | 4.2    | 5.7   | 0.0    | 0.0   |
| 20°   | 2.8    | 0.0   | 0.0    | 0.0   |
| 21°   | 2.8    | 0.0   | 0.0    | 0.0   |
| 22°   | 1.4    | 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°   | 1.4    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.4    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.4    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.4    | 1.4   | 0.0    | 0.0   |





TEST NUMBER: P1312788

CATALOG NUMBER: P3SQAS20R509727D010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.4    | 1.4  | 0.0    | 0.0  |
| 85°   | 1.4    | 1.4  | 0.0    | 0.0  |
| 87.5° | 1.4    | 1.4  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)