

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: P1317147

Luminaire Tested: P3SQAS13R409830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317147  
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: P3SQAS13R409830DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

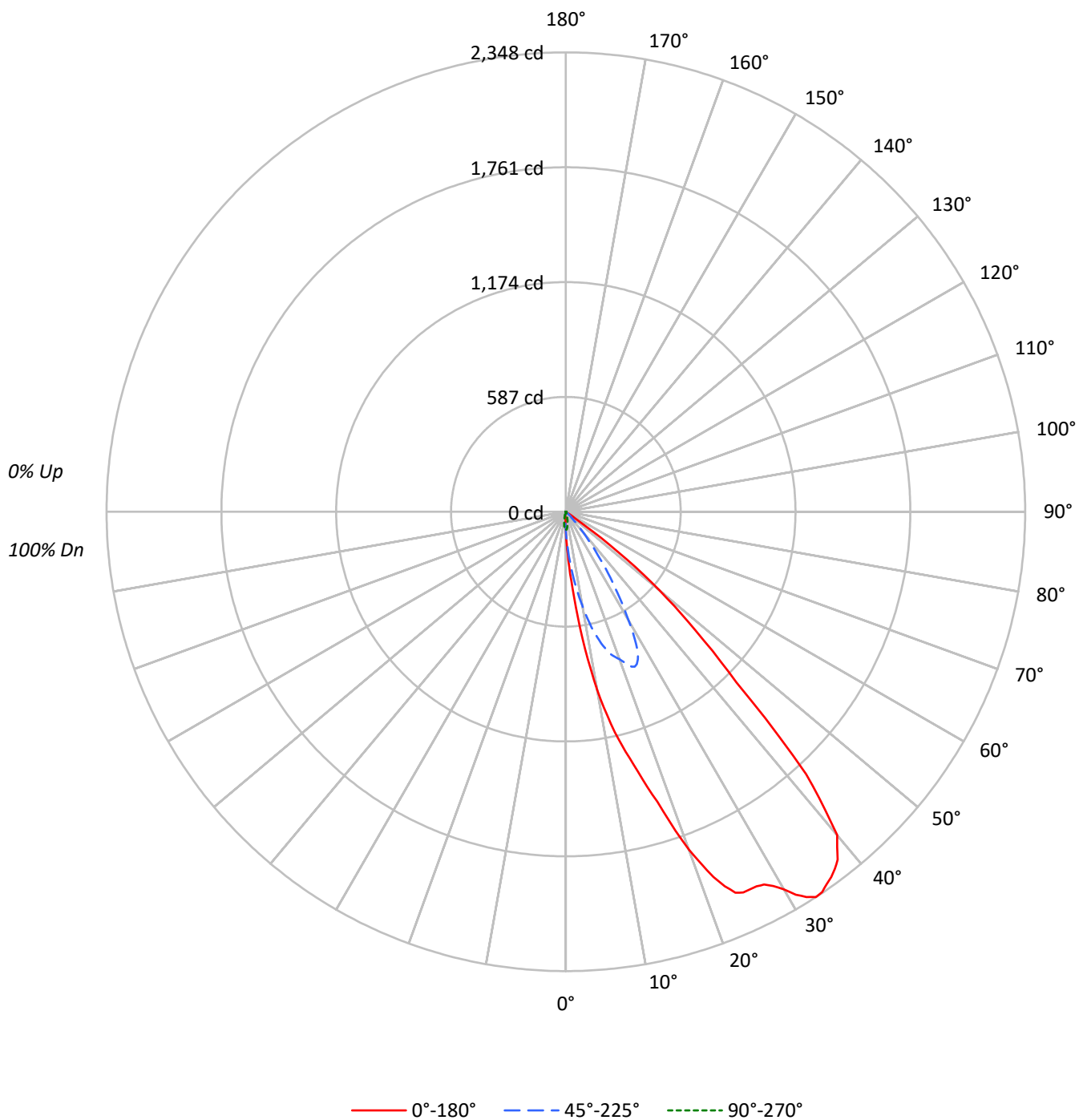
Lumens per Lamp: N/A  
Luminaire Lumens: 788.0 lumens  
Efficiency: N/A  
Efficacy: 54.3 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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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CATALOG NUMBER: P3SQAS13R409830DE010 E3SQCA301MMS

### 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°  | 15879  | 15879  | 15879 | 15879 | 15879 |
| 5°  | 67372  | 45917  | 13934 | 2507  | 1262  |
| 10° | 161938 | 85411  | 8622  | 262   | 0     |
| 15° | 238331 | 124078 | 3619  | 0     | 0     |
| 20° | 336897 | 147097 | 1338  | 0     | 0     |
| 25° | 408063 | 163271 | 0     | 0     | 0     |
| 30° | 443053 | 127711 | 0     | 0     | 0     |
| 35° | 488546 | 74763  | 0     | 0     | 0     |
| 40° | 484893 | 30351  | 0     | 0     | 0     |
| 45° | 300309 | 8841   | 0     | 0     | 0     |
| 50° | 167216 | 188    | 0     | 0     | 0     |
| 55° | 16334  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 241   | 0     | 0     |
| 65° | 0      | 0      | 285   | 0     | 0     |
| 70° | 0      | 352    | 755   | 0     | 0     |
| 75° | 0      | 466    | 998   | 0     | 0     |
| 80° | 0      | 694    | 1488  | 0     | 0     |
| 85° | 0      | 1383   | 2964  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 301722 cd/sqm

TEST NUMBER: P1317147

CATALOG NUMBER: P3SQAS13R409830DE010 E3SQCA301MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 17.3   | 2.2       |
| 10°-20°   | 101.6  | 12.9      |
| 20°-30°   | 231.8  | 29.4      |
| 30°-40°   | 273.8  | 34.7      |
| 40°-50°   | 146.3  | 18.6      |
| 50°-60°   | 15.9   | 2.0       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.6    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 350.7  | 44.5      |
| 0°-40°    | 624.5  | 79.2      |
| 0°-60°    | 786.6  | 99.8      |
| 0°-90°    | 788.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 788.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 92   | 92  | 92  | 92   | 92   |      |
| 5°  | 390  | 266 | 81  | 14   | 7    | 55   |
| 15° | 1337 | 696 | 20  | 0    | 0    | 397  |
| 25° | 2147 | 859 | 0   | 0    | 0    | 975  |
| 35° | 2324 | 356 | 0   | 0    | 0    | 1435 |
| 45° | 1233 | 36  | 0   | 0    | 0    | 1017 |
| 55° | 54   | 0   | 0   | 0    | 0    | 153  |
| 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: P1317147

CATALOG NUMBER: P3SQAS13R409830DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 92.2   | 92.2   | 92.2   | 92.2   | 92.2   | 92.2   | 92.2   | 92.2   | 92.2  | 92.2  | 92.2 |
| 2.5°  | 214.8  | 210.5  | 213.4  | 207.6  | 207.6  | 194.5  | 195.2  | 184.3  | 168.4 | 128.4 | 91.4 |
| 5°    | 389.7  | 407.1  | 393.3  | 375.2  | 365.0  | 352.0  | 334.5  | 316.4  | 265.6 | 160.4 | 80.6 |
| 7.5°  | 652.4  | 651.0  | 627.7  | 608.1  | 585.6  | 550.8  | 518.2  | 473.9  | 378.1 | 183.6 | 66.8 |
| 10°   | 926.0  | 920.9  | 894.8  | 878.1  | 835.3  | 785.2  | 718.4  | 647.3  | 488.4 | 191.6 | 49.3 |
| 12.5° | 1153.9 | 1147.3 | 1125.6 | 1097.3 | 1050.1 | 987.0  | 915.1  | 821.5  | 604.5 | 182.9 | 31.9 |
| 15°   | 1336.7 | 1335.3 | 1314.2 | 1275.8 | 1226.4 | 1164.8 | 1083.5 | 971.0  | 695.9 | 160.4 | 20.3 |
| 17.5° | 1553.7 | 1562.4 | 1524.7 | 1483.3 | 1412.2 | 1325.9 | 1226.4 | 1098.0 | 763.4 | 132.8 | 13.1 |
| 20°   | 1838.2 | 1825.9 | 1791.0 | 1730.8 | 1662.6 | 1558.8 | 1418.0 | 1234.4 | 802.6 | 103.0 | 7.3  |
| 21°   | 1925.3 | 1920.2 | 1883.9 | 1828.0 | 1752.6 | 1647.3 | 1502.2 | 1304.1 | 820.8 | 92.2  | 5.8  |
| 22°   | 2013.8 | 2005.1 | 1976.8 | 1922.4 | 1851.3 | 1732.3 | 1572.6 | 1375.9 | 844.0 | 80.6  | 3.6  |
| 23°   | 2079.9 | 2076.2 | 2054.5 | 2000.8 | 1927.5 | 1812.1 | 1648.8 | 1442.7 | 860.0 | 69.7  | 2.2  |
| 24°   | 2130.7 | 2126.3 | 2104.5 | 2063.9 | 2000.8 | 1880.3 | 1725.7 | 1514.5 | 866.5 | 60.2  | 0.7  |
| 25°   | 2147.4 | 2149.5 | 2136.5 | 2104.5 | 2051.6 | 1931.1 | 1783.1 | 1571.1 | 859.2 | 51.5  | 0.0  |
| 26°   | 2148.1 | 2154.6 | 2145.2 | 2127.0 | 2083.5 | 1971.7 | 1836.8 | 1604.5 | 840.4 | 43.5  | 0.0  |
| 27°   | 2148.1 | 2154.6 | 2145.2 | 2131.4 | 2088.6 | 1995.0 | 1865.8 | 1608.2 | 811.3 | 37.0  | 0.0  |
| 28°   | 2158.2 | 2161.9 | 2149.5 | 2132.8 | 2086.4 | 2002.2 | 1873.8 | 1586.4 | 764.9 | 31.9  | 0.0  |
| 29°   | 2186.5 | 2182.9 | 2162.6 | 2140.1 | 2084.2 | 2002.2 | 1849.8 | 1545.0 | 706.8 | 26.9  | 0.0  |
| 30°   | 2227.9 | 2227.9 | 2196.0 | 2160.4 | 2094.4 | 2001.5 | 1811.4 | 1470.3 | 642.2 | 21.8  | 0.0  |
| 31°   | 2283.8 | 2278.7 | 2246.8 | 2193.8 | 2116.2 | 2001.5 | 1754.8 | 1387.5 | 582.7 | 18.9  | 0.0  |
| 32°   | 2321.5 | 2318.6 | 2288.1 | 2225.7 | 2151.7 | 2001.5 | 1693.8 | 1296.1 | 518.2 | 15.2  | 0.0  |
| 33°   | 2347.7 | 2341.8 | 2307.0 | 2242.4 | 2173.5 | 1991.3 | 1625.6 | 1198.1 | 460.1 | 12.3  | 0.0  |
| 34°   | 2344.0 | 2342.6 | 2306.3 | 2239.5 | 2169.1 | 1949.2 | 1546.5 | 1089.3 | 406.4 | 10.2  | 0.0  |
| 35°   | 2323.7 | 2323.7 | 2279.4 | 2210.5 | 2137.9 | 1887.6 | 1468.1 | 996.4  | 355.6 | 7.3   | 0.0  |
| 36°   | 2308.5 | 2302.7 | 2252.6 | 2175.7 | 2085.7 | 1790.3 | 1352.0 | 902.8  | 301.2 | 5.8   | 0.0  |
| 37°   | 2286.0 | 2275.1 | 2219.2 | 2136.5 | 2011.6 | 1685.1 | 1230.1 | 819.3  | 254.7 | 3.6   | 0.0  |
| 38°   | 2256.9 | 2240.2 | 2172.0 | 2090.8 | 1930.4 | 1563.9 | 1106.0 | 725.7  | 211.9 | 2.2   | 0.0  |
| 39°   | 2204.0 | 2190.2 | 2119.8 | 2032.0 | 1833.1 | 1436.2 | 985.5  | 637.9  | 171.3 | 0.7   | 0.0  |
| 40°   | 2156.8 | 2132.8 | 2053.0 | 1952.1 | 1719.2 | 1291.8 | 865.8  | 551.5  | 135.0 | 0.0   | 0.0  |
| 42.5° | 1818.6 | 1793.2 | 1775.1 | 1674.9 | 1369.4 | 927.4  | 604.5  | 353.4  | 70.4  | 0.0   | 0.0  |
| 45°   | 1233.0 | 1238.8 | 1182.2 | 1114.7 | 903.5  | 604.5  | 378.1  | 196.7  | 36.3  | 0.0   | 0.0  |
| 47.5° | 899.1  | 883.9  | 807.0  | 679.3  | 529.8  | 353.4  | 197.4  | 95.1   | 14.5  | 0.0   | 0.0  |
| 50°   | 624.1  | 595.1  | 525.4  | 429.6  | 288.1  | 168.4  | 87.1   | 44.3   | 0.7   | 0.0   | 0.0  |
| 52.5° | 338.9  | 318.6  | 270.0  | 195.9  | 119.7  | 64.6   | 34.8   | 18.1   | 0.0   | 0.0   | 0.0  |
| 55°   | 54.4   | 37.7   | 39.2   | 33.4   | 26.1   | 18.9   | 10.9   | 2.2    | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7  |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7  |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7  |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.7   | 0.7  |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.5   | 1.5  |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.5   | 1.5  |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.5   | 1.5  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 1.5   | 1.5  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7   | 1.5   | 1.5  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7   | 1.5   | 1.5  |



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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 | 0.7 | 0.7 | 1.5   | 1.5 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.5   | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 1.5   | 1.5 |
| 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: P1317147

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 92.2   | 92.2 | 92.2   | 92.2 |
| 2.5°  | 61.7   | 42.1 | 31.9   | 27.6 |
| 5°    | 35.6   | 14.5 | 8.0    | 7.3  |
| 7.5°  | 17.4   | 5.1  | 2.9    | 2.9  |
| 10°   | 7.3    | 1.5  | 0.0    | 0.0  |
| 12.5° | 2.2    | 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°   | 0.7    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.7    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.7    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.7    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.7    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.7    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.7    | 0.0  | 0.0    | 0.0  |





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CATALOG NUMBER: P3SQAS13R409830DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.7    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.7    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.7    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)