

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: P1312631

Luminaire Tested: P3SQAS17R509727DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312631  
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: P3SQAS17R509727DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

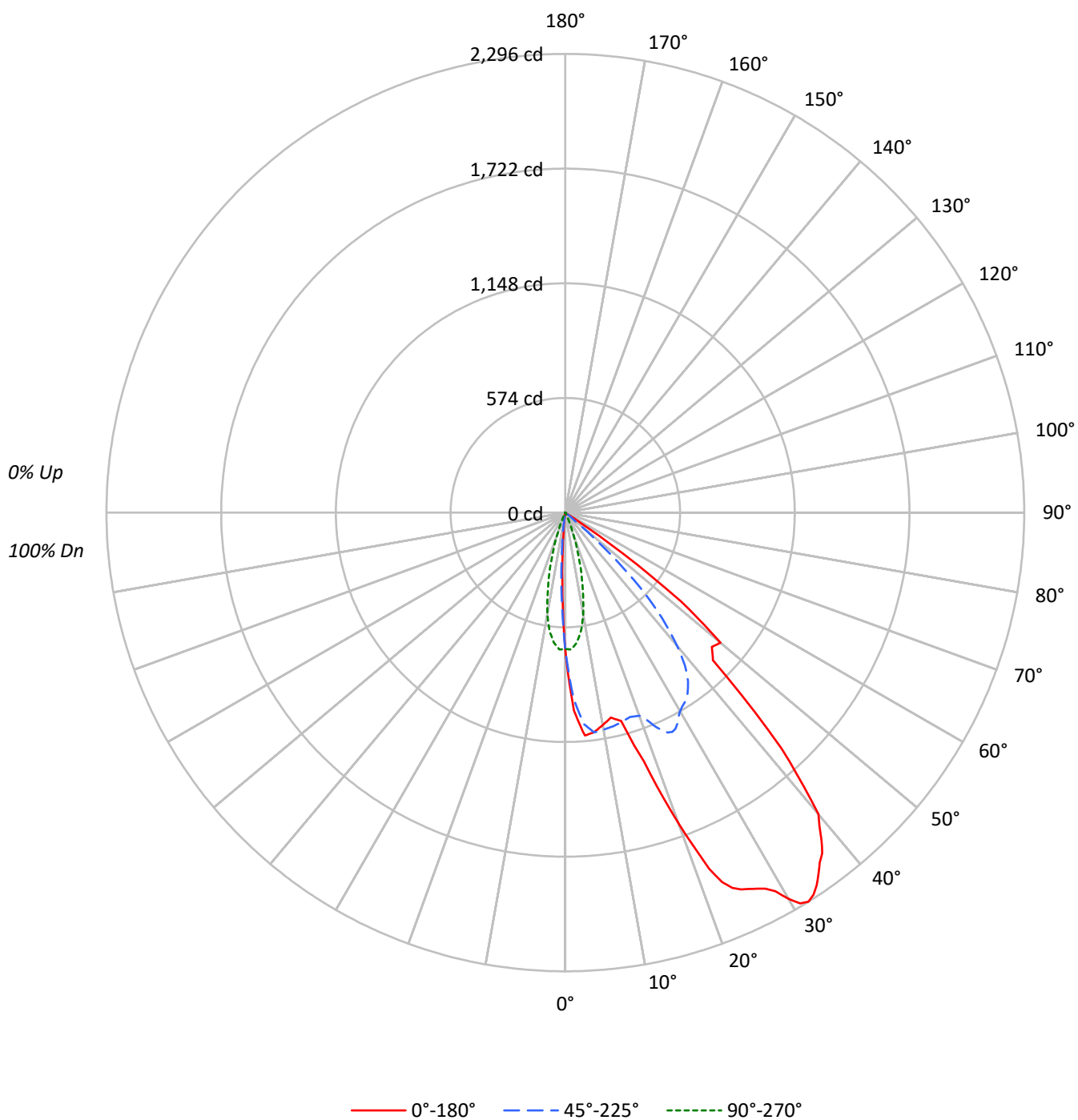
Lumens per Lamp: N/A  
Luminaire Lumens: 1099.0 lumens  
Efficiency: N/A  
Efficacy: 51.8 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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: P1312631

CATALOG NUMBER: P3SQAS17R509727DE010 E3SQCA301MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1312631

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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 | 99  | 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°  | 117508 | 117508 | 117508 | 117508 | 117508 |
| 5°  | 193626 | 183755 | 112926 | 33539  | 16769  |
| 10° | 188695 | 192857 | 90483  | 1696   | 2256   |
| 15° | 192384 | 193542 | 54203  | 1729   | 571    |
| 20° | 303266 | 198157 | 22323  | 0      | 0      |
| 25° | 395350 | 230863 | 5321   | 0      | 0      |
| 30° | 443749 | 228298 | 219    | 0      | 0      |
| 35° | 464368 | 224815 | 0      | 0      | 0      |
| 40° | 443009 | 195324 | 0      | 0      | 0      |
| 45° | 254398 | 128916 | 0      | 0      | 0      |
| 50° | 271494 | 14736  | 0      | 0      | 0      |
| 55° | 77347  | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 379    | 0      | 0      |
| 65° | 0      | 448    | 448    | 0      | 0      |
| 70° | 0      | 554    | 554    | 0      | 0      |
| 75° | 0      | 732    | 732    | 0      | 0      |
| 80° | 0      | 1091   | 2182   | 1091   | 0      |
| 85° | 0      | 2174   | 4347   | 2174   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 280922 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.3   | 5.2       |
| 10°-20°   | 144.4  | 13.1      |
| 20°-30°   | 277.3  | 25.2      |
| 30°-40°   | 322.8  | 29.4      |
| 40°-50°   | 231.0  | 21.0      |
| 50°-60°   | 64.3   | 5.9       |
| 60°-70°   | 0.4    | 0.0       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.8    | 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°    | 479.0  | 43.6      |
| 0°-40°    | 801.8  | 73.0      |
| 0°-60°    | 1097.1 | 99.8      |
| 0°-90°    | 1099.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1099.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 682  | 682  | 682 | 682  | 682  |      |
| 5°  | 1120 | 1063 | 653 | 194  | 97   | 103  |
| 15° | 1079 | 1086 | 304 | 10   | 3    | 348  |
| 25° | 2080 | 1215 | 28  | 0    | 0    | 946  |
| 35° | 2209 | 1069 | 0   | 0    | 0    | 1367 |
| 45° | 1044 | 529  | 0   | 0    | 0    | 982  |
| 55° | 258  | 0    | 0   | 0    | 0    | 324  |
| 65° | 0    | 1    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 1   | 0    | 0    | 0    |
| 85° | 0    | 1    | 2   | 1    | 0    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1312631

CATALOG NUMBER: P3SQA517R509727DE010 E3SQA301MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 682.3  | 682.3  | 682.3  | 682.3  | 682.3  | 682.3  | 682.3  | 682.3  | 682.3  | 682.3 | 682.3 |
| 2.5°  | 991.7  | 997.1  | 998.2  | 985.3  | 987.4  | 969.1  | 970.2  | 957.2  | 926.0  | 817.1 | 685.6 |
| 5°    | 1120.0 | 1116.8 | 1120.0 | 1115.7 | 1120.0 | 1109.2 | 1102.8 | 1097.4 | 1062.9 | 908.7 | 653.2 |
| 7.5°  | 1108.1 | 1103.8 | 1110.3 | 1112.5 | 1120.0 | 1116.8 | 1117.8 | 1121.1 | 1109.2 | 958.3 | 598.3 |
| 10°   | 1079.0 | 1078.0 | 1081.2 | 1081.2 | 1089.8 | 1090.9 | 1095.2 | 1101.7 | 1102.8 | 975.6 | 517.4 |
| 12.5° | 1051.0 | 1047.8 | 1047.8 | 1046.7 | 1051.0 | 1049.9 | 1060.7 | 1075.8 | 1096.3 | 964.8 | 406.4 |
| 15°   | 1079.0 | 1075.8 | 1071.5 | 1059.6 | 1051.0 | 1041.3 | 1042.4 | 1052.1 | 1085.5 | 936.7 | 304.0 |
| 17.5° | 1305.4 | 1288.2 | 1266.6 | 1228.9 | 1189.0 | 1120.0 | 1079.0 | 1053.2 | 1072.6 | 893.6 | 202.7 |
| 20°   | 1654.7 | 1647.1 | 1612.6 | 1551.2 | 1486.5 | 1385.2 | 1259.1 | 1157.7 | 1081.2 | 839.7 | 121.8 |
| 21°   | 1787.3 | 1782.9 | 1746.3 | 1689.2 | 1615.9 | 1493.0 | 1363.6 | 1241.8 | 1098.4 | 817.1 | 95.9  |
| 22°   | 1923.1 | 1906.9 | 1877.8 | 1814.2 | 1737.7 | 1614.8 | 1470.3 | 1335.6 | 1132.9 | 788.0 | 73.3  |
| 23°   | 2010.4 | 2000.7 | 1969.4 | 1918.8 | 1845.5 | 1725.8 | 1578.1 | 1431.5 | 1166.4 | 755.7 | 55.0  |
| 24°   | 2055.7 | 2052.4 | 2027.6 | 1992.1 | 1929.6 | 1807.7 | 1667.6 | 1516.7 | 1194.4 | 717.9 | 39.9  |
| 25°   | 2080.5 | 2069.7 | 2054.6 | 2028.7 | 1981.3 | 1875.7 | 1750.6 | 1591.1 | 1214.9 | 680.2 | 28.0  |
| 26°   | 2095.6 | 2089.1 | 2065.4 | 2042.7 | 1997.5 | 1911.2 | 1804.5 | 1636.3 | 1220.3 | 633.8 | 19.4  |
| 27°   | 2112.8 | 2097.7 | 2075.1 | 2048.1 | 1997.5 | 1922.0 | 1825.0 | 1655.7 | 1213.8 | 586.4 | 12.9  |
| 28°   | 2131.1 | 2120.3 | 2089.1 | 2054.6 | 1994.2 | 1922.0 | 1817.4 | 1629.9 | 1194.4 | 541.1 | 7.5   |
| 29°   | 2166.7 | 2152.7 | 2113.9 | 2063.2 | 1995.3 | 1919.8 | 1788.3 | 1576.0 | 1168.5 | 490.5 | 4.3   |
| 30°   | 2231.4 | 2202.3 | 2154.8 | 2083.7 | 2002.9 | 1915.5 | 1739.8 | 1495.1 | 1148.0 | 433.3 | 1.1   |
| 31°   | 2282.0 | 2265.9 | 2210.9 | 2121.4 | 2024.4 | 1903.7 | 1682.7 | 1415.4 | 1134.0 | 383.8 | 0.0   |
| 32°   | 2296.1 | 2284.2 | 2244.3 | 2160.2 | 2061.1 | 1894.0 | 1618.0 | 1337.7 | 1123.2 | 328.8 | 0.0   |
| 33°   | 2279.9 | 2272.3 | 2230.3 | 2153.8 | 2070.8 | 1881.0 | 1543.6 | 1261.2 | 1111.4 | 279.2 | 0.0   |
| 34°   | 2249.7 | 2240.0 | 2203.4 | 2125.7 | 2046.0 | 1825.0 | 1472.5 | 1203.0 | 1094.1 | 232.8 | 0.0   |
| 35°   | 2208.7 | 2201.2 | 2163.5 | 2086.9 | 2000.7 | 1737.7 | 1401.3 | 1164.2 | 1069.3 | 186.5 | 0.0   |
| 36°   | 2164.5 | 2162.4 | 2113.9 | 2038.4 | 1942.5 | 1653.6 | 1315.1 | 1135.1 | 1044.5 | 147.7 | 0.0   |
| 37°   | 2135.4 | 2124.7 | 2071.8 | 1997.5 | 1873.5 | 1555.5 | 1246.1 | 1125.4 | 1010.0 | 114.3 | 0.0   |
| 38°   | 2082.6 | 2084.8 | 2024.4 | 1956.5 | 1803.4 | 1470.3 | 1190.1 | 1117.8 | 971.2  | 83.0  | 0.0   |
| 39°   | 2020.1 | 2021.2 | 1958.7 | 1900.4 | 1720.4 | 1380.9 | 1143.7 | 1110.3 | 922.7  | 52.8  | 0.0   |
| 40°   | 1970.5 | 1969.4 | 1898.3 | 1835.8 | 1631.0 | 1296.8 | 1118.9 | 1099.5 | 868.8  | 30.2  | 0.0   |
| 42.5° | 1601.9 | 1608.3 | 1616.9 | 1642.8 | 1420.8 | 1149.1 | 1095.2 | 1039.2 | 715.8  | 0.0   | 0.0   |
| 45°   | 1044.5 | 1069.3 | 1075.8 | 1153.4 | 1152.3 | 1088.7 | 1039.2 | 931.4  | 529.3  | 0.0   | 0.0   |
| 47.5° | 993.9  | 1001.4 | 1015.4 | 1045.6 | 1061.8 | 1030.5 | 929.2  | 778.3  | 288.9  | 0.0   | 0.0   |
| 50°   | 1013.3 | 1012.2 | 1015.4 | 1015.4 | 986.3  | 905.5  | 762.1  | 574.6  | 55.0   | 0.0   | 0.0   |
| 52.5° | 727.6  | 754.6  | 783.7  | 796.6  | 758.9  | 673.7  | 556.2  | 337.4  | 0.0    | 0.0   | 0.0   |
| 55°   | 257.6  | 249.0  | 242.5  | 265.2  | 259.8  | 292.1  | 241.5  | 78.7   | 0.0    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.1    | 4.3    | 9.7    | 12.9   | 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    | 1.1   | 1.1   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1   | 1.1   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1   | 1.1   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1   | 1.1   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1   | 1.1   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1   | 1.1   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1   | 1.1   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1   | 2.2   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1   | 2.2   |



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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 | 1.1 | 1.1 | 1.1   | 2.2 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1   | 2.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1   | 2.2 |
| 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: P1312631

CATALOG NUMBER: P3SQAS17R509727DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 682.3  | 682.3 | 682.3  | 682.3 |
| 2.5°  | 546.5  | 419.3 | 339.6  | 344.9 |
| 5°    | 383.8  | 194.0 | 119.7  | 97.0  |
| 7.5°  | 229.6  | 59.3  | 11.9   | 9.7   |
| 10°   | 107.8  | 9.7   | 10.8   | 12.9  |
| 12.5° | 32.3   | 8.6   | 11.9   | 10.8  |
| 15°   | 8.6    | 9.7   | 5.4    | 3.2   |
| 17.5° | 3.2    | 4.3   | 0.0    | 0.0   |
| 20°   | 2.2    | 0.0   | 0.0    | 0.0   |
| 21°   | 2.2    | 0.0   | 0.0    | 0.0   |
| 22°   | 1.1    | 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°   | 1.1    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.1    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.1    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.1    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.1    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.1    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.1    | 1.1   | 0.0    | 0.0   |





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CATALOG NUMBER: P3SQAS17R509727DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.1    | 1.1  | 0.0    | 0.0  |
| 85°   | 1.1    | 1.1  | 0.0    | 0.0  |
| 87.5° | 1.1    | 1.1  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)