

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: P1339995

Luminaire Tested: P3A09R159827DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1339995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R159827DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

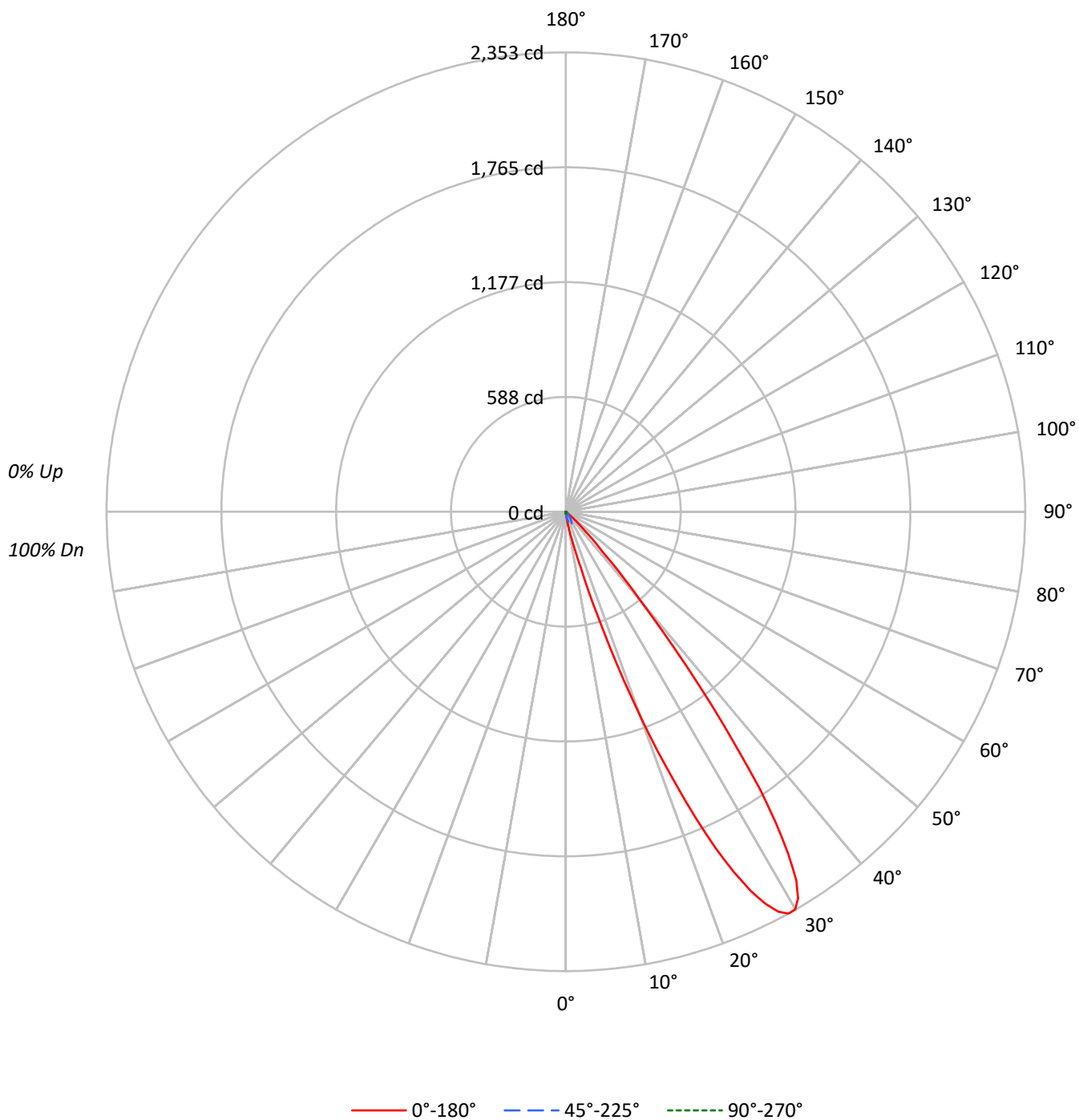
Lumens per Lamp: N/A  
Luminaire Lumens: 256.9 lumens  
Efficiency: N/A  
Efficacy: 23.4 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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: P3A09R159827DE010 E3A301LI

### 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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1864   | 1864  | 1864 | 1864 | 1864 |
| 5°  | 4006   | 2972  | 1761 | 924  | 770  |
| 10° | 17813  | 5611  | 1381 | 379  | 267  |
| 15° | 67356  | 12985 | 953  | 159  | 114  |
| 20° | 259069 | 18318 | 583  | 47   | 47   |
| 25° | 492657 | 17178 | 290  | 0    | 0    |
| 30° | 595155 | 13850 | 127  | 0    | 0    |
| 35° | 464178 | 9423  | 54   | 0    | 0    |
| 40° | 169374 | 4637  | 57   | 0    | 57   |
| 45° | 43477  | 1395  | 62   | 0    | 155  |
| 50° | 7335   | 171   | 68   | 68   | 239  |
| 55° | 956    | 0     | 191  | 268  | 459  |
| 60° | 88     | 88    | 307  | 439  | 658  |
| 65° | 104    | 104   | 519  | 623  | 778  |
| 70° | 128    | 128   | 641  | 641  | 769  |
| 75° | 169    | 169   | 847  | 593  | 847  |
| 80° | 0      | 253   | 884  | 631  | 884  |
| 85° | 0      | 503   | 1761 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43477 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.2    | 0.5       |
| 10°-20°   | 19.7   | 7.7       |
| 20°-30°   | 109.2  | 42.5      |
| 30°-40°   | 105.5  | 41.1      |
| 40°-50°   | 18.3   | 7.1       |
| 50°-60°   | 1.3    | 0.5       |
| 60°-70°   | 0.8    | 0.3       |
| 70°-80°   | 0.6    | 0.2       |
| 80°-90°   | 0.3    | 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°    | 130.1  | 50.6      |
| 0°-40°    | 235.6  | 91.7      |
| 0°-60°    | 255.2  | 99.4      |
| 0°-90°    | 256.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 256.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 8    | 8   | 8   | 8    | 8    |      |
| 5°  | 18   | 14  | 8   | 4    | 4    | 4    |
| 15° | 297  | 57  | 4   | 1    | 0    | 132  |
| 25° | 2036 | 71  | 1   | 0    | 0    | 910  |
| 35° | 1734 | 35  | 0   | 0    | 0    | 997  |
| 45° | 140  | 4   | 0   | 0    | 0    | 151  |
| 55° | 2    | 0   | 0   | 1    | 1    | 5    |
| 65° | 0    | 0   | 1   | 1    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5   | 8.5   | 8.5  |
| 2.5°  | 12.5   | 12.0   | 12.2   | 12.2   | 12.2   | 12.2   | 12.2   | 11.7   | 11.7  | 12.0  | 10.7 |
| 5°    | 18.2   | 18.2   | 18.0   | 18.2   | 18.2   | 18.0   | 17.5   | 17.2   | 17.2  | 16.7  | 13.5 |
| 7.5°  | 36.5   | 36.0   | 36.0   | 35.5   | 33.0   | 32.2   | 31.7   | 30.5   | 28.2  | 27.7  | 17.5 |
| 10°   | 80.0   | 80.2   | 78.5   | 76.2   | 76.0   | 72.2   | 71.0   | 68.7   | 64.5  | 60.2  | 25.2 |
| 12.5° | 145.2  | 142.0  | 137.7  | 138.0  | 130.7  | 128.2  | 122.5  | 116.2  | 109.7 | 103.0 | 41.5 |
| 15°   | 296.7  | 287.5  | 293.0  | 279.5  | 264.2  | 247.0  | 229.5  | 207.5  | 188.7 | 168.7 | 57.2 |
| 17.5° | 625.0  | 634.0  | 618.7  | 561.0  | 525.5  | 483.7  | 425.0  | 368.2  | 319.7 | 280.7 | 70.0 |
| 20°   | 1110.2 | 1123.5 | 1071.7 | 1021.5 | 935.2  | 841.2  | 743.2  | 632.2  | 526.0 | 434.0 | 78.5 |
| 21°   | 1313.0 | 1305.0 | 1283.7 | 1203.2 | 1103.7 | 994.7  | 874.7  | 752.2  | 623.5 | 504.0 | 79.2 |
| 22°   | 1509.0 | 1512.7 | 1463.2 | 1379.0 | 1275.5 | 1154.7 | 1008.2 | 857.0  | 718.2 | 561.0 | 78.0 |
| 23°   | 1704.2 | 1716.2 | 1650.7 | 1571.7 | 1441.5 | 1305.2 | 1135.7 | 972.5  | 801.0 | 626.2 | 75.5 |
| 24°   | 1885.0 | 1876.7 | 1832.5 | 1733.0 | 1593.7 | 1434.2 | 1258.2 | 1060.2 | 869.0 | 682.0 | 73.5 |
| 25°   | 2036.2 | 2035.2 | 1965.7 | 1869.0 | 1709.7 | 1533.0 | 1339.0 | 1132.0 | 927.2 | 719.7 | 71.0 |
| 26°   | 2160.0 | 2139.7 | 2085.0 | 1967.0 | 1809.7 | 1623.2 | 1405.2 | 1184.2 | 960.0 | 738.7 | 68.5 |
| 27°   | 2255.5 | 2241.0 | 2167.5 | 2044.7 | 1880.5 | 1674.2 | 1447.7 | 1210.2 | 975.0 | 745.0 | 65.2 |
| 28°   | 2319.7 | 2304.0 | 2225.7 | 2099.2 | 1919.5 | 1706.2 | 1470.2 | 1221.2 | 975.0 | 739.0 | 62.2 |
| 29°   | 2353.0 | 2331.5 | 2253.5 | 2118.0 | 1928.5 | 1710.0 | 1464.7 | 1210.5 | 959.7 | 720.5 | 58.7 |
| 30°   | 2350.5 | 2323.7 | 2242.0 | 2101.0 | 1901.7 | 1679.2 | 1434.0 | 1171.7 | 925.2 | 693.0 | 54.7 |
| 31°   | 2310.0 | 2280.0 | 2188.7 | 2043.5 | 1846.5 | 1621.2 | 1376.0 | 1119.7 | 878.0 | 657.2 | 50.7 |
| 32°   | 2227.7 | 2189.7 | 2100.7 | 1956.0 | 1761.5 | 1534.5 | 1291.7 | 1039.5 | 807.2 | 605.0 | 46.5 |
| 33°   | 2093.7 | 2055.5 | 1960.0 | 1824.2 | 1646.5 | 1424.5 | 1180.0 | 953.2  | 726.7 | 542.7 | 43.0 |
| 34°   | 1926.0 | 1891.0 | 1808.7 | 1672.0 | 1501.5 | 1285.2 | 1051.5 | 834.0  | 643.2 | 481.0 | 39.2 |
| 35°   | 1734.0 | 1678.2 | 1603.7 | 1495.5 | 1329.2 | 1111.7 | 912.7  | 723.0  | 557.2 | 416.2 | 35.2 |
| 36°   | 1474.2 | 1484.2 | 1405.2 | 1272.7 | 1135.0 | 964.5  | 773.5  | 602.7  | 466.0 | 354.7 | 31.7 |
| 37°   | 1244.0 | 1228.2 | 1178.0 | 1075.5 | 955.5  | 786.2  | 648.2  | 511.0  | 392.0 | 300.0 | 28.0 |
| 38°   | 1003.5 | 1007.0 | 957.7  | 879.0  | 760.0  | 646.5  | 521.7  | 419.7  | 328.0 | 255.2 | 24.5 |
| 39°   | 785.5  | 782.7  | 769.5  | 696.5  | 588.7  | 514.2  | 422.7  | 348.0  | 273.2 | 215.2 | 20.7 |
| 40°   | 591.7  | 596.2  | 565.2  | 521.2  | 458.5  | 397.2  | 336.7  | 277.5  | 226.0 | 181.5 | 16.2 |
| 42.5° | 287.7  | 294.7  | 274.2  | 263.0  | 235.2  | 211.2  | 178.2  | 145.5  | 123.7 | 107.0 | 7.2  |
| 45°   | 140.2  | 136.2  | 134.5  | 129.0  | 122.5  | 109.5  | 97.0   | 83.2   | 72.7  | 62.7  | 4.5  |
| 47.5° | 71.7   | 69.7   | 69.7   | 67.5   | 65.2   | 61.0   | 54.7   | 50.2   | 45.2  | 39.0  | 1.7  |
| 50°   | 21.5   | 21.2   | 21.0   | 21.2   | 20.5   | 21.2   | 21.7   | 22.0   | 20.0  | 19.7  | 0.5  |
| 52.5° | 8.5    | 8.7    | 8.5    | 9.2    | 9.2    | 9.0    | 9.2    | 9.0    | 8.7   | 7.7   | 0.0  |
| 55°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.7    | 3.0    | 2.7   | 3.0   | 0.0  |
| 57.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.0   | 0.2  |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 72.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 75°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2   | 0.2   | 0.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.2  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 8.5   | 8.5 | 8.5    | 8.5  | 8.5    | 8.5  |
| 2.5°  | 10.0  | 8.7 | 7.2    | 6.0  | 5.5    | 5.2  |
| 5°    | 10.7  | 8.0 | 5.5    | 4.2  | 3.7    | 3.5  |
| 7.5°  | 11.5  | 7.2 | 4.2    | 3.0  | 2.2    | 2.0  |
| 10°   | 12.0  | 6.2 | 3.2    | 1.7  | 1.2    | 1.2  |
| 12.5° | 12.0  | 5.0 | 2.2    | 1.0  | 0.7    | 0.7  |
| 15°   | 11.7  | 4.2 | 1.5    | 0.7  | 0.5    | 0.5  |
| 17.5° | 11.5  | 3.2 | 1.0    | 0.5  | 0.2    | 0.5  |
| 20°   | 10.7  | 2.5 | 0.5    | 0.2  | 0.2    | 0.2  |
| 21°   | 10.5  | 2.2 | 0.5    | 0.2  | 0.2    | 0.2  |
| 22°   | 10.0  | 2.0 | 0.2    | 0.0  | 0.2    | 0.2  |
| 23°   | 9.5   | 1.5 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 8.7   | 1.2 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 8.2   | 1.2 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 7.7   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 7.0   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 6.5   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 5.7   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 5.0   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 4.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 3.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 37°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 38°   | 0.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 39°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 40°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 42.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.5  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.5  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.5    | 0.5  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.5    | 0.7  |
| 52.5° | 0.0   | 0.5 | 0.2    | 0.5  | 0.7    | 1.0  |
| 55°   | 0.2   | 0.5 | 0.5    | 0.7  | 1.0    | 1.2  |
| 57.5° | 0.2   | 0.7 | 0.7    | 1.0  | 1.2    | 1.2  |
| 60°   | 0.5   | 0.7 | 1.0    | 1.0  | 1.5    | 1.5  |
| 62.5° | 0.5   | 1.0 | 1.0    | 1.0  | 1.5    | 1.5  |
| 65°   | 0.5   | 1.0 | 1.0    | 1.2  | 1.5    | 1.5  |
| 67.5° | 0.5   | 1.0 | 1.0    | 1.0  | 1.2    | 1.5  |
| 70°   | 0.5   | 1.0 | 0.7    | 1.0  | 1.2    | 1.2  |
| 72.5° | 0.5   | 1.0 | 0.7    | 0.7  | 1.0    | 1.2  |
| 75°   | 0.5   | 1.0 | 0.7    | 0.7  | 1.0    | 1.0  |
| 77.5° | 0.5   | 0.7 | 0.7    | 0.5  | 0.7    | 0.7  |
| 80°   | 0.5   | 0.7 | 0.5    | 0.5  | 0.7    | 0.7  |



TEST NUMBER: P1339995

CATALOG NUMBER: P3A09R159827DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.5   | 0.7 | 0.5    | 0.2  | 0.5    | 0.5  |
| 85°   | 0.5   | 0.7 | 0.5    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.5   | 0.7 | 0.2    | 0.0  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)