

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: P1340026

Luminaire Tested: P3A09R159835DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340026  
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: P3A09R159835DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

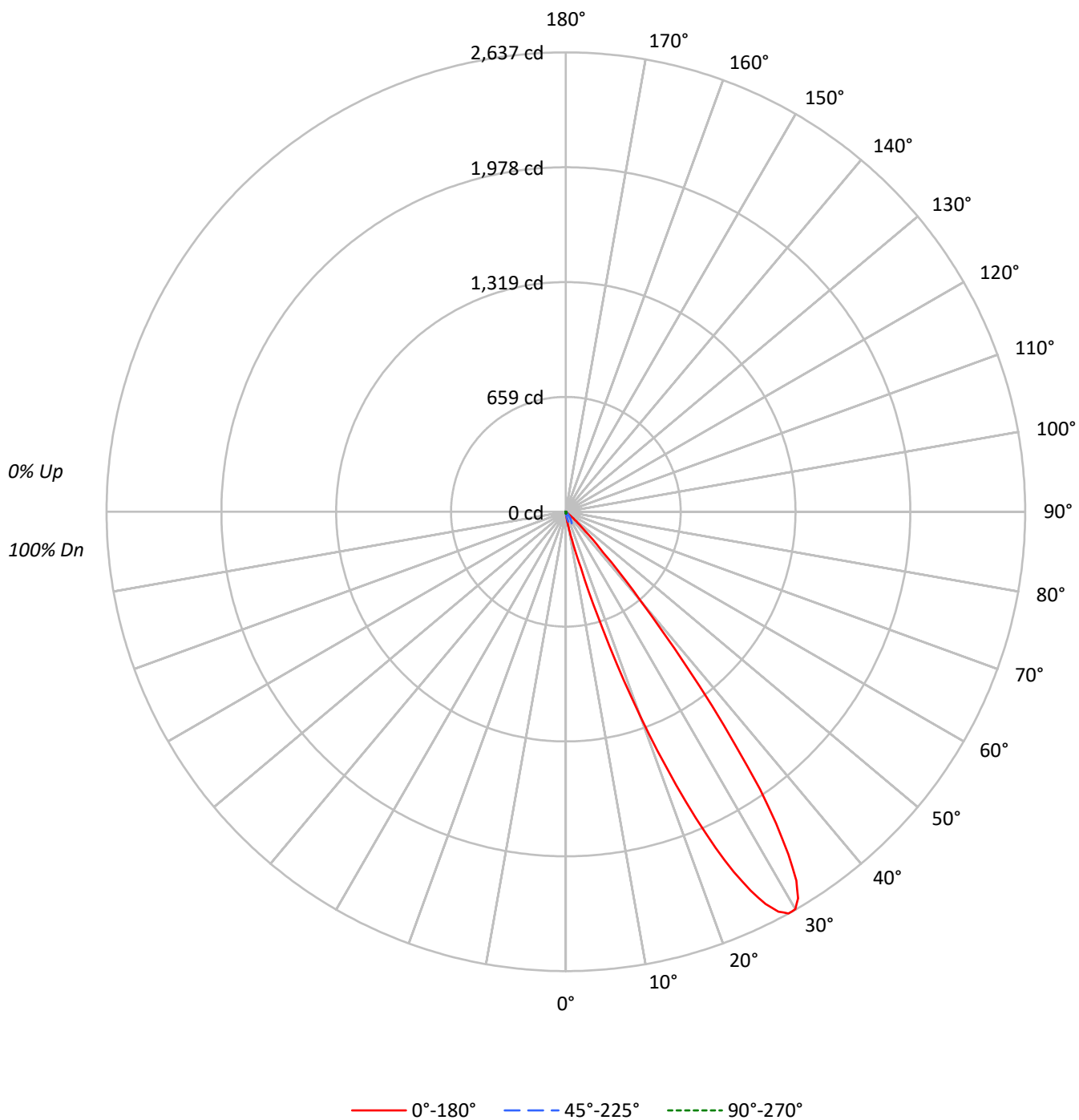
Lumens per Lamp: N/A  
Luminaire Lumens: 288.0 lumens  
Efficiency: N/A  
Efficacy: 26.2 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1340026

CATALOG NUMBER: P3A09R159835DE010 E3A301H

### Luminous Intensity Polar Plot



TEST NUMBER: P1340026

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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 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 2083   | 2083  | 2083 | 2083 | 2083 |
| 5°  | 4512   | 3324  | 1981 | 1057 | 858  |
| 10° | 19951  | 6301  | 1559 | 445  | 312  |
| 15° | 75483  | 14574 | 1090 | 182  | 136  |
| 20° | 290339 | 20535 | 653  | 70   | 70   |
| 25° | 552080 | 19259 | 339  | 0    | 0    |
| 30° | 666938 | 15547 | 152  | 0    | 0    |
| 35° | 520153 | 10574 | 80   | 0    | 0    |
| 40° | 189813 | 5210  | 86   | 0    | 86   |
| 45° | 48749  | 1551  | 93   | 0    | 186  |
| 50° | 8221   | 205   | 102  | 102  | 273  |
| 55° | 1070   | 0     | 229  | 306  | 535  |
| 60° | 132    | 132   | 351  | 482  | 746  |
| 65° | 156    | 156   | 571  | 726  | 882  |
| 70° | 192    | 192   | 705  | 705  | 898  |
| 75° | 254    | 254   | 932  | 678  | 932  |
| 80° | 0      | 379   | 1010 | 758  | 1010 |
| 85° | 0      | 755   | 2013 | 755  | 755  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48749 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.5       |
| 10°-20°   | 22.1   | 7.7       |
| 20°-30°   | 122.4  | 42.5      |
| 30°-40°   | 118.3  | 41.1      |
| 40°-50°   | 20.6   | 7.1       |
| 50°-60°   | 1.5    | 0.5       |
| 60°-70°   | 0.9    | 0.3       |
| 70°-80°   | 0.7    | 0.2       |
| 80°-90°   | 0.4    | 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°    | 145.8  | 50.6      |
| 0°-40°    | 264.0  | 91.7      |
| 0°-60°    | 286.1  | 99.3      |
| 0°-90°    | 288.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 288.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 10   | 10  | 10  | 10   | 10   |      |
| 5°  | 20   | 15  | 9   | 5    | 4    | 4    |
| 15° | 332  | 64  | 5   | 1    | 1    | 148  |
| 25° | 2282 | 80  | 1   | 0    | 0    | 1020 |
| 35° | 1943 | 40  | 0   | 0    | 0    | 1118 |
| 45° | 157  | 5   | 0   | 0    | 1    | 169  |
| 55° | 3    | 0   | 1   | 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°    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5   | 9.5  |
| 2.5°  | 14.0   | 13.4   | 13.7   | 13.7   | 13.7   | 13.7   | 13.7   | 13.2   | 13.2   | 13.4  | 12.0 |
| 5°    | 20.5   | 20.5   | 20.2   | 20.5   | 20.5   | 20.2   | 19.6   | 19.3   | 19.3   | 18.8  | 15.1 |
| 7.5°  | 40.9   | 40.3   | 40.3   | 39.8   | 37.0   | 36.1   | 35.6   | 34.2   | 31.7   | 31.1  | 19.6 |
| 10°   | 89.6   | 89.9   | 88.0   | 85.4   | 85.2   | 81.0   | 79.6   | 77.0   | 72.3   | 67.5  | 28.3 |
| 12.5° | 162.8  | 159.1  | 154.4  | 154.6  | 146.5  | 143.7  | 137.3  | 130.3  | 123.0  | 115.4 | 46.5 |
| 15°   | 332.5  | 322.2  | 328.3  | 313.2  | 296.1  | 276.8  | 257.2  | 232.5  | 211.5  | 189.1 | 64.2 |
| 17.5° | 700.4  | 710.5  | 693.4  | 628.7  | 588.9  | 542.1  | 476.3  | 412.7  | 358.3  | 314.6 | 78.4 |
| 20°   | 1244.2 | 1259.0 | 1201.0 | 1144.7 | 1048.0 | 942.7  | 832.9  | 708.5  | 589.4  | 486.3 | 88.0 |
| 21°   | 1471.4 | 1462.4 | 1438.6 | 1348.4 | 1236.9 | 1114.7 | 980.3  | 843.0  | 698.7  | 564.8 | 88.8 |
| 22°   | 1691.0 | 1695.2 | 1639.7 | 1545.3 | 1429.3 | 1294.0 | 1129.9 | 960.4  | 804.9  | 628.7 | 87.4 |
| 23°   | 1909.8 | 1923.2 | 1849.8 | 1761.3 | 1615.4 | 1462.7 | 1272.7 | 1089.8 | 897.6  | 701.8 | 84.6 |
| 24°   | 2112.3 | 2103.1 | 2053.5 | 1942.0 | 1786.0 | 1607.2 | 1410.0 | 1188.1 | 973.8  | 764.3 | 82.4 |
| 25°   | 2281.8 | 2280.7 | 2202.8 | 2094.4 | 1916.0 | 1717.9 | 1500.5 | 1268.5 | 1039.1 | 806.6 | 79.6 |
| 26°   | 2420.5 | 2397.8 | 2336.5 | 2204.2 | 2028.0 | 1819.0 | 1574.7 | 1327.1 | 1075.8 | 827.8 | 76.8 |
| 27°   | 2527.5 | 2511.3 | 2428.9 | 2291.4 | 2107.3 | 1876.2 | 1622.4 | 1356.2 | 1092.6 | 834.9 | 73.1 |
| 28°   | 2599.5 | 2581.9 | 2494.2 | 2352.4 | 2151.0 | 1912.0 | 1647.6 | 1368.5 | 1092.6 | 828.1 | 69.8 |
| 29°   | 2636.8 | 2612.7 | 2525.3 | 2373.4 | 2161.1 | 1916.2 | 1641.4 | 1356.5 | 1075.5 | 807.4 | 65.8 |
| 30°   | 2634.0 | 2604.0 | 2512.4 | 2354.4 | 2131.1 | 1881.8 | 1606.9 | 1313.1 | 1036.8 | 776.6 | 61.4 |
| 31°   | 2588.6 | 2555.0 | 2452.7 | 2290.0 | 2069.2 | 1816.8 | 1542.0 | 1254.8 | 983.9  | 736.5 | 56.9 |
| 32°   | 2496.4 | 2453.8 | 2354.1 | 2191.9 | 1973.9 | 1719.6 | 1447.5 | 1164.9 | 904.6  | 678.0 | 52.1 |
| 33°   | 2346.3 | 2303.4 | 2196.4 | 2044.3 | 1845.1 | 1596.3 | 1322.3 | 1068.2 | 814.4  | 608.2 | 48.2 |
| 34°   | 2158.3 | 2119.1 | 2026.9 | 1873.7 | 1682.6 | 1440.3 | 1178.3 | 934.6  | 720.8  | 539.0 | 44.0 |
| 35°   | 1943.1 | 1880.7 | 1797.2 | 1675.9 | 1489.6 | 1245.8 | 1022.8 | 810.2  | 624.5  | 466.5 | 39.5 |
| 36°   | 1652.1 | 1663.3 | 1574.7 | 1426.3 | 1271.9 | 1080.8 | 866.8  | 675.4  | 522.2  | 397.5 | 35.6 |
| 37°   | 1394.0 | 1376.4 | 1320.1 | 1205.2 | 1070.7 | 881.1  | 726.4  | 572.6  | 439.3  | 336.2 | 31.4 |
| 38°   | 1124.5 | 1128.5 | 1073.3 | 985.0  | 851.7  | 724.5  | 584.7  | 470.4  | 367.6  | 286.0 | 27.5 |
| 39°   | 880.2  | 877.2  | 862.3  | 780.5  | 659.8  | 576.3  | 473.7  | 390.0  | 306.2  | 241.2 | 23.3 |
| 40°   | 663.1  | 668.2  | 633.4  | 584.1  | 513.8  | 445.2  | 377.4  | 311.0  | 253.3  | 203.4 | 18.2 |
| 42.5° | 322.5  | 330.3  | 307.3  | 294.7  | 263.6  | 236.7  | 199.7  | 163.0  | 138.7  | 119.9 | 8.1  |
| 45°   | 157.2  | 152.7  | 150.7  | 144.6  | 137.3  | 122.7  | 108.7  | 93.3   | 81.5   | 70.3  | 5.0  |
| 47.5° | 80.4   | 78.2   | 78.2   | 75.6   | 73.1   | 68.4   | 61.4   | 56.3   | 50.7   | 43.7  | 2.0  |
| 50°   | 24.1   | 23.8   | 23.5   | 23.8   | 23.0   | 23.8   | 24.4   | 24.7   | 22.4   | 22.1  | 0.6  |
| 52.5° | 9.5    | 9.8    | 9.5    | 10.4   | 10.4   | 10.1   | 10.4   | 10.1   | 9.8    | 8.7   | 0.0  |
| 55°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 3.1    | 3.4    | 3.1    | 3.4   | 0.0  |
| 57.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   | 0.0  |
| 60°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.0   | 0.3  |
| 62.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 65°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 67.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 70°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 72.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 75°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3   | 0.3  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3   | 0.3  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.3  |



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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   | 0.3 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 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: P1340026

CATALOG NUMBER: P3A09R159835DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 9.5   | 9.5 | 9.5    | 9.5  | 9.5    | 9.5  |
| 2.5°  | 11.2  | 9.8 | 8.1    | 6.7  | 6.2    | 5.9  |
| 5°    | 12.0  | 9.0 | 6.2    | 4.8  | 4.2    | 3.9  |
| 7.5°  | 12.9  | 8.1 | 4.8    | 3.4  | 2.5    | 2.2  |
| 10°   | 13.4  | 7.0 | 3.6    | 2.0  | 1.4    | 1.4  |
| 12.5° | 13.4  | 5.6 | 2.5    | 1.1  | 0.8    | 0.8  |
| 15°   | 13.2  | 4.8 | 1.7    | 0.8  | 0.6    | 0.6  |
| 17.5° | 12.9  | 3.6 | 1.1    | 0.6  | 0.3    | 0.6  |
| 20°   | 12.0  | 2.8 | 0.6    | 0.3  | 0.3    | 0.3  |
| 21°   | 11.8  | 2.5 | 0.6    | 0.3  | 0.3    | 0.3  |
| 22°   | 11.2  | 2.2 | 0.3    | 0.0  | 0.3    | 0.3  |
| 23°   | 10.6  | 1.7 | 0.3    | 0.0  | 0.0    | 0.0  |
| 24°   | 9.8   | 1.4 | 0.3    | 0.0  | 0.0    | 0.0  |
| 25°   | 9.2   | 1.4 | 0.3    | 0.0  | 0.0    | 0.0  |
| 26°   | 8.7   | 0.8 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 7.8   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 7.3   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 6.4   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 5.6   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 4.5   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 3.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.5   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.7   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.4   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.8   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 37°   | 0.8   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 38°   | 0.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 39°   | 0.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 40°   | 0.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.3  |
| 42.5° | 0.0   | 0.3 | 0.0    | 0.0  | 0.3    | 0.6  |
| 45°   | 0.0   | 0.3 | 0.0    | 0.0  | 0.3    | 0.6  |
| 47.5° | 0.0   | 0.3 | 0.0    | 0.0  | 0.6    | 0.6  |
| 50°   | 0.0   | 0.3 | 0.3    | 0.3  | 0.6    | 0.8  |
| 52.5° | 0.0   | 0.6 | 0.3    | 0.6  | 0.8    | 1.1  |
| 55°   | 0.3   | 0.6 | 0.6    | 0.8  | 1.1    | 1.4  |
| 57.5° | 0.3   | 0.8 | 0.8    | 1.1  | 1.4    | 1.4  |
| 60°   | 0.6   | 0.8 | 1.1    | 1.1  | 1.7    | 1.7  |
| 62.5° | 0.6   | 1.1 | 1.1    | 1.1  | 1.7    | 1.7  |
| 65°   | 0.6   | 1.1 | 1.1    | 1.4  | 1.7    | 1.7  |
| 67.5° | 0.6   | 1.1 | 1.1    | 1.1  | 1.4    | 1.7  |
| 70°   | 0.6   | 1.1 | 0.8    | 1.1  | 1.4    | 1.4  |
| 72.5° | 0.6   | 1.1 | 0.8    | 0.8  | 1.1    | 1.4  |
| 75°   | 0.6   | 1.1 | 0.8    | 0.8  | 1.1    | 1.1  |
| 77.5° | 0.6   | 0.8 | 0.8    | 0.6  | 0.8    | 0.8  |
| 80°   | 0.6   | 0.8 | 0.6    | 0.6  | 0.8    | 0.8  |





TEST NUMBER: P1340026

CATALOG NUMBER: P3A09R159835DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.6   | 0.8 | 0.6    | 0.3  | 0.6    | 0.6  |
| 85°   | 0.6   | 0.8 | 0.6    | 0.3  | 0.3    | 0.3  |
| 87.5° | 0.6   | 0.8 | 0.3    | 0.0  | 0.0    | 0.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)