

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: P1344216

Luminaire Tested: P3A13R20W2N902750DE010 E3A301MW\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R20W2N902750DE010 E3A301MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

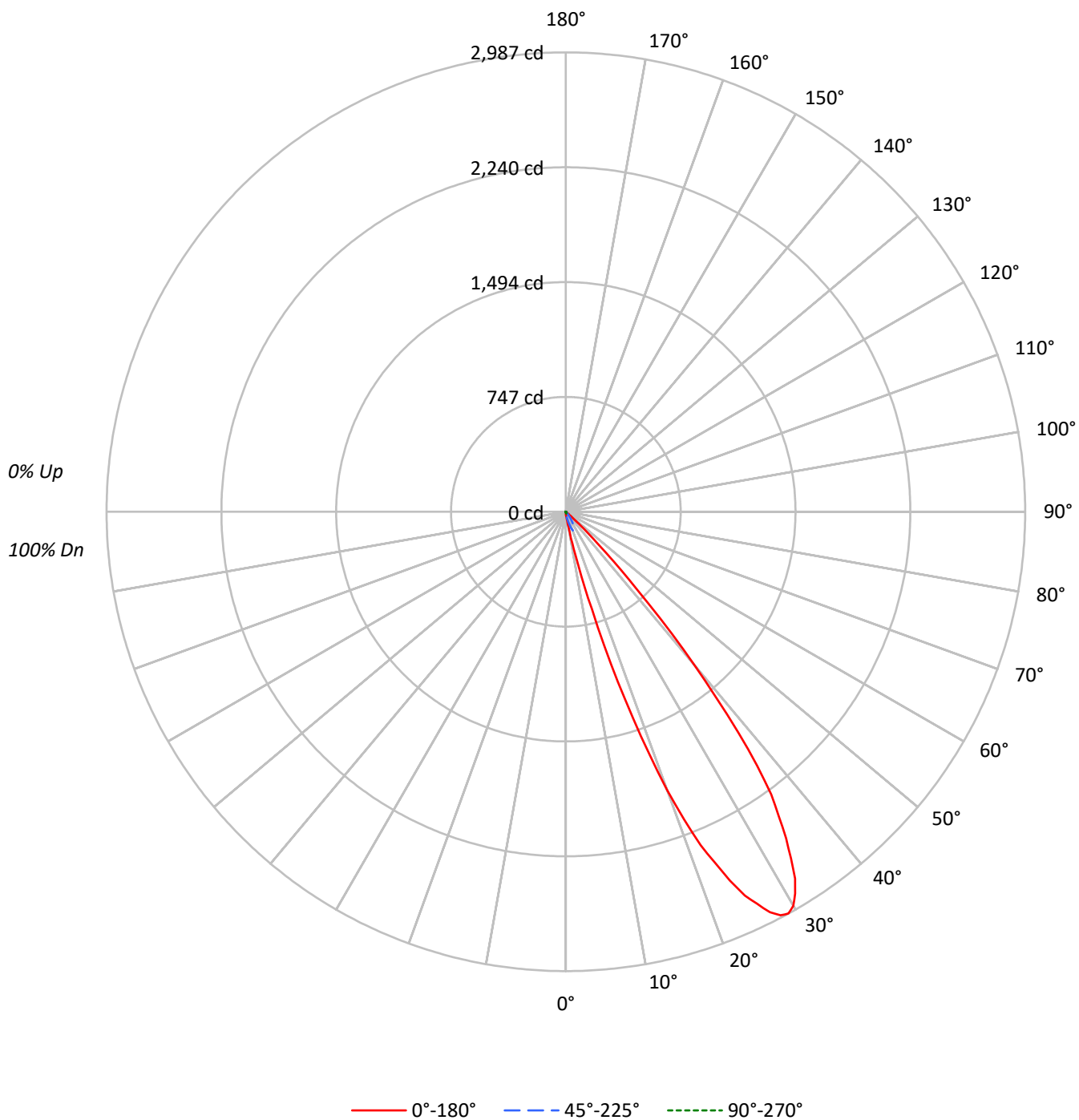
Lumens per Lamp: N/A  
Luminaire Lumens: 419.0 lumens  
Efficiency: N/A  
Efficacy: 34.1 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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   | 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  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 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  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 3158   | 3158  | 3158 | 3158 | 3158 |
| 5°  | 7286   | 5437  | 3016 | 1849 | 1585 |
| 10° | 22934  | 9485  | 2449 | 1024 | 757  |
| 15° | 148605 | 17526 | 1816 | 341  | 91   |
| 20° | 448482 | 29986 | 1237 | 0    | 0    |
| 25° | 666063 | 30268 | 726  | 0    | 0    |
| 30° | 749027 | 23016 | 279  | 0    | 0    |
| 35° | 646263 | 13733 | 214  | 0    | 0    |
| 40° | 372154 | 4666  | 0    | 0    | 0    |
| 45° | 90769  | 1892  | 124  | 0    | 124  |
| 50° | 10882  | 512   | 136  | 136  | 375  |
| 55° | 1453   | 0     | 306  | 306  | 573  |
| 60° | 175    | 0     | 482  | 482  | 833  |
| 65° | 208    | 208   | 778  | 778  | 1193 |
| 70° | 256    | 256   | 962  | 962  | 1218 |
| 75° | 0      | 339   | 1271 | 932  | 1271 |
| 80° | 0      | 505   | 1389 | 1010 | 1389 |
| 85° | 0      | 1006  | 2768 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 91358 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.5       |
| 10°-20°   | 38.8   | 9.3       |
| 20°-30°   | 169.3  | 40.4      |
| 30°-40°   | 170.4  | 40.7      |
| 40°-50°   | 34.2   | 8.2       |
| 50°-60°   | 1.7    | 0.4       |
| 60°-70°   | 1.1    | 0.3       |
| 70°-80°   | 1.0    | 0.2       |
| 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°    | 210.0  | 50.1      |
| 0°-40°    | 380.5  | 90.8      |
| 0°-60°    | 416.4  | 99.4      |
| 0°-90°    | 419.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 419.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 33   | 25  | 14  | 8    | 7    | 5    |
| 15° | 655  | 77  | 8   | 2    | 0    | 256  |
| 25° | 2753 | 125 | 3   | 0    | 0    | 1241 |
| 35° | 2414 | 51  | 1   | 0    | 0    | 1436 |
| 45° | 293  | 6   | 0   | 0    | 0    | 319  |
| 55° | 4    | 0   | 1   | 1    | 2    | 7    |
| 65° | 0    | 0   | 2   | 2    | 2    | 0    |
| 75° | 0    | 0   | 2   | 1    | 2    | 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°    | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4   | 14.4  |
| 2.5°  | 21.7   | 21.7   | 21.3   | 21.3   | 20.9   | 21.3   | 20.5   | 20.9   | 20.9   | 20.5   | 18.6  |
| 5°    | 33.1   | 33.8   | 33.5   | 33.5   | 33.1   | 33.5   | 32.7   | 31.9   | 31.2   | 31.2   | 24.7  |
| 7.5°  | 54.4   | 54.0   | 53.2   | 53.6   | 52.5   | 51.7   | 50.9   | 50.6   | 48.3   | 47.1   | 32.3  |
| 10°   | 103.0  | 105.3  | 103.4  | 103.0  | 96.2   | 95.8   | 91.2   | 84.8   | 79.1   | 76.0   | 42.6  |
| 12.5° | 283.6  | 295.7  | 276.7  | 267.6  | 262.3  | 241.8  | 233.0  | 210.6  | 188.9  | 172.6  | 54.0  |
| 15°   | 654.6  | 684.6  | 646.2  | 648.9  | 617.0  | 558.4  | 507.1  | 463.0  | 410.9  | 358.5  | 77.2  |
| 17.5° | 1282.6 | 1258.2 | 1237.3 | 1202.0 | 1137.0 | 1051.1 | 940.4  | 828.3  | 731.4  | 629.9  | 107.6 |
| 20°   | 1921.9 | 1900.3 | 1852.8 | 1775.6 | 1692.7 | 1565.4 | 1433.9 | 1265.5 | 1102.4 | 949.6  | 128.5 |
| 21°   | 2142.0 | 2134.8 | 2056.9 | 2009.4 | 1881.7 | 1760.0 | 1608.3 | 1428.2 | 1244.6 | 1063.6 | 131.9 |
| 22°   | 2338.6 | 2295.2 | 2253.4 | 2183.1 | 2056.1 | 1923.8 | 1755.1 | 1565.4 | 1366.2 | 1165.1 | 132.3 |
| 23°   | 2474.7 | 2454.9 | 2415.4 | 2335.9 | 2209.7 | 2054.2 | 1876.3 | 1677.9 | 1468.1 | 1237.0 | 131.1 |
| 24°   | 2625.2 | 2600.1 | 2542.3 | 2449.6 | 2322.2 | 2168.7 | 1965.7 | 1768.8 | 1540.7 | 1297.4 | 128.1 |
| 25°   | 2752.9 | 2713.8 | 2645.3 | 2545.4 | 2406.2 | 2247.7 | 2043.6 | 1827.3 | 1591.2 | 1338.1 | 125.1 |
| 26°   | 2835.8 | 2814.5 | 2726.7 | 2618.0 | 2469.0 | 2305.5 | 2097.2 | 1872.2 | 1623.9 | 1356.7 | 120.1 |
| 27°   | 2922.1 | 2882.9 | 2796.6 | 2671.6 | 2510.0 | 2343.1 | 2127.6 | 1893.8 | 1635.3 | 1357.5 | 114.0 |
| 28°   | 2971.5 | 2928.9 | 2831.2 | 2699.7 | 2536.6 | 2364.0 | 2145.1 | 1900.7 | 1633.0 | 1345.7 | 106.8 |
| 29°   | 2987.1 | 2933.5 | 2838.1 | 2704.3 | 2543.1 | 2365.6 | 2142.4 | 1890.8 | 1612.9 | 1316.8 | 98.5  |
| 30°   | 2958.2 | 2903.5 | 2813.0 | 2682.6 | 2522.6 | 2346.6 | 2117.7 | 1858.1 | 1577.2 | 1275.3 | 90.9  |
| 31°   | 2895.1 | 2848.7 | 2761.3 | 2630.5 | 2476.9 | 2302.1 | 2061.8 | 1804.5 | 1516.3 | 1219.8 | 82.1  |
| 32°   | 2811.8 | 2766.2 | 2680.3 | 2562.1 | 2405.9 | 2229.5 | 1985.4 | 1720.9 | 1444.9 | 1137.0 | 73.4  |
| 33°   | 2686.8 | 2660.5 | 2583.4 | 2470.5 | 2314.2 | 2125.7 | 1882.8 | 1620.9 | 1343.0 | 1045.0 | 65.8  |
| 34°   | 2560.2 | 2527.1 | 2473.1 | 2349.6 | 2181.6 | 1993.4 | 1749.0 | 1482.9 | 1218.7 | 942.0  | 58.5  |
| 35°   | 2414.2 | 2394.5 | 2309.7 | 2210.8 | 2042.1 | 1849.7 | 1606.8 | 1348.7 | 1073.9 | 827.2  | 51.3  |
| 36°   | 2272.8 | 2242.4 | 2145.8 | 2041.3 | 1877.5 | 1669.5 | 1429.7 | 1187.2 | 948.8  | 719.6  | 43.7  |
| 37°   | 2067.5 | 2021.2 | 1952.4 | 1842.1 | 1650.5 | 1473.4 | 1254.4 | 1029.4 | 794.9  | 603.3  | 35.4  |
| 38°   | 1826.2 | 1804.5 | 1709.1 | 1598.1 | 1439.6 | 1271.5 | 1054.9 | 864.0  | 655.7  | 503.7  | 27.0  |
| 39°   | 1541.4 | 1541.1 | 1449.8 | 1369.6 | 1214.5 | 1063.2 | 867.8  | 701.3  | 541.3  | 405.6  | 20.9  |
| 40°   | 1300.1 | 1255.2 | 1198.9 | 1098.2 | 979.2  | 850.7  | 679.7  | 548.9  | 420.0  | 326.9  | 16.3  |
| 42.5° | 681.6  | 677.8  | 644.7  | 569.1  | 502.5  | 426.9  | 339.5  | 282.8  | 221.2  | 180.2  | 10.3  |
| 45°   | 292.7  | 294.6  | 271.8  | 260.4  | 234.5  | 203.0  | 171.4  | 142.9  | 122.4  | 99.2   | 6.1   |
| 47.5° | 74.1   | 71.1   | 70.3   | 73.0   | 73.0   | 70.7   | 63.5   | 59.7   | 55.1   | 50.6   | 3.4   |
| 50°   | 31.9   | 31.2   | 30.4   | 30.4   | 28.5   | 27.4   | 25.5   | 23.2   | 21.3   | 19.0   | 1.5   |
| 52.5° | 11.8   | 12.2   | 12.5   | 12.2   | 12.2   | 11.8   | 11.8   | 11.4   | 10.3   | 9.1    | 0.8   |
| 55°   | 3.8    | 3.8    | 3.8    | 4.2    | 4.2    | 4.6    | 4.6    | 4.6    | 4.6    | 4.2    | 0.0   |
| 57.5° | 0.8    | 0.8    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.5    | 1.5    | 0.0   |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0   |
| 62.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 65°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 67.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 70°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 72.5° | 0.4    | 0.0    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.4    | 0.0    | 0.4    | 0.4    | 0.0    | 0.4    | 0.4    | 0.4   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   |



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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   | 0.4 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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°    | 14.4  | 14.4 | 14.4   | 14.4 | 14.4   | 14.4 |
| 2.5°  | 16.7  | 14.8 | 12.5   | 10.6 | 10.3   | 9.9  |
| 5°    | 18.6  | 13.7 | 10.3   | 8.4  | 7.6    | 7.2  |
| 7.5°  | 20.1  | 12.5 | 8.4    | 6.1  | 5.3    | 4.9  |
| 10°   | 20.9  | 11.0 | 6.8    | 4.6  | 3.4    | 3.4  |
| 12.5° | 21.3  | 9.5  | 4.9    | 3.0  | 1.9    | 1.9  |
| 15°   | 20.9  | 8.0  | 3.8    | 1.5  | 0.4    | 0.4  |
| 17.5° | 19.0  | 6.5  | 2.3    | 0.4  | 0.0    | 0.0  |
| 20°   | 16.3  | 5.3  | 1.5    | 0.0  | 0.0    | 0.0  |
| 21°   | 15.6  | 4.6  | 1.1    | 0.0  | 0.0    | 0.0  |
| 22°   | 14.4  | 4.2  | 0.8    | 0.0  | 0.0    | 0.0  |
| 23°   | 13.3  | 3.8  | 0.8    | 0.0  | 0.0    | 0.0  |
| 24°   | 12.2  | 3.4  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 11.4  | 3.0  | 0.4    | 0.0  | 0.0    | 0.0  |
| 26°   | 10.6  | 2.7  | 0.4    | 0.0  | 0.0    | 0.0  |
| 27°   | 9.5   | 2.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 8.7   | 1.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 7.6   | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 6.5   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 5.3   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 4.6   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 3.8   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 3.4   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 3.0   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 2.3   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 1.9   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 1.5   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 1.1   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 1.1   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.4   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.4  |
| 47.5° | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.8  |
| 50°   | 0.0   | 0.4  | 0.4    | 0.4  | 0.8    | 1.1  |
| 52.5° | 0.0   | 0.8  | 0.4    | 0.4  | 1.1    | 1.1  |
| 55°   | 0.4   | 0.8  | 0.4    | 0.8  | 1.5    | 1.5  |
| 57.5° | 0.4   | 0.8  | 0.8    | 1.1  | 1.5    | 1.9  |
| 60°   | 0.8   | 1.1  | 1.1    | 1.1  | 1.9    | 1.9  |
| 62.5° | 0.8   | 1.1  | 1.5    | 1.5  | 1.9    | 2.3  |
| 65°   | 0.8   | 1.5  | 1.5    | 1.5  | 1.9    | 2.3  |
| 67.5° | 1.1   | 1.5  | 1.5    | 1.5  | 1.9    | 2.3  |
| 70°   | 1.1   | 1.5  | 1.5    | 1.5  | 1.9    | 1.9  |
| 72.5° | 1.1   | 1.5  | 1.1    | 1.5  | 1.5    | 1.9  |
| 75°   | 1.1   | 1.5  | 1.1    | 1.1  | 1.5    | 1.5  |
| 77.5° | 0.8   | 1.1  | 1.1    | 0.8  | 1.1    | 1.1  |
| 80°   | 0.8   | 1.1  | 0.8    | 0.8  | 1.1    | 1.1  |



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CATALOG NUMBER: P3A13R20W2N902750DE010 E3A301MW\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.8   | 1.1 | 0.8    | 0.4  | 0.8    | 0.8  |
| 85°   | 0.8   | 1.1 | 0.8    | 0.4  | 0.4    | 0.4  |
| 87.5° | 0.8   | 1.1 | 0.8    | 0.4  | 0.0    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)