

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: P1344228

Luminaire Tested: P3A13R20W2N902750DE010 E3A301WMH\_5000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344228  
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 E3A301WMH\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,  
E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

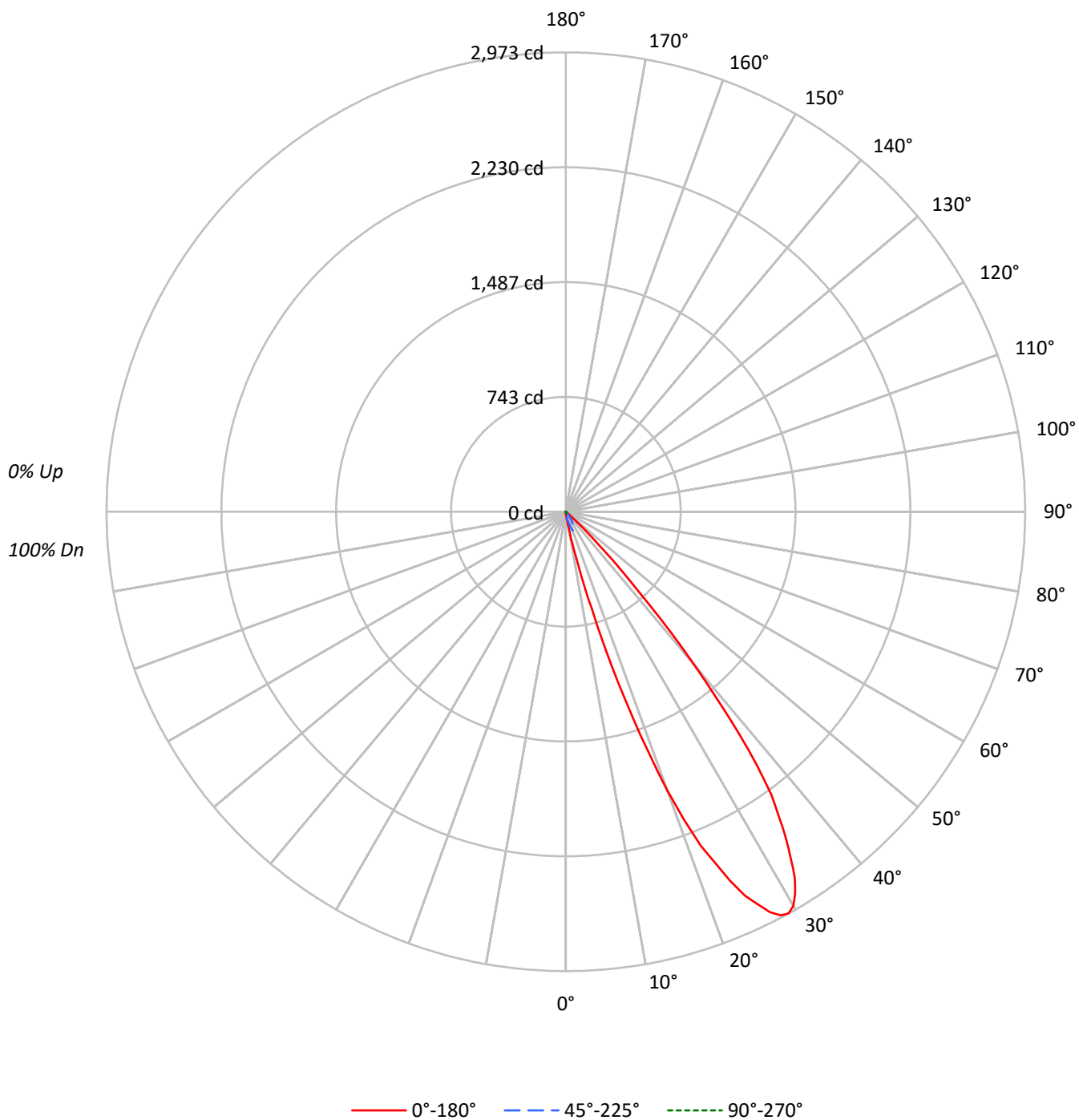
Lumens per Lamp: N/A  
Luminaire Lumens: 417.0 lumens  
Efficiency: N/A  
Efficacy: 33.9 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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 |
| 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°  | 7242   | 5415  | 2994 | 1827 | 1585 |
| 10° | 22823  | 9441  | 2449 | 1002 | 757  |
| 15° | 147901 | 17435 | 1793 | 341  | 91   |
| 20° | 446359 | 29846 | 1237 | 0    | 0    |
| 25° | 662893 | 30123 | 726  | 0    | 0    |
| 30° | 745456 | 22890 | 279  | 0    | 0    |
| 35° | 643184 | 13679 | 214  | 0    | 0    |
| 40° | 370351 | 4666  | 0    | 0    | 0    |
| 45° | 90335  | 1892  | 124  | 0    | 124  |
| 50° | 10848  | 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: 90924 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.5       |
| 10°-20°   | 38.6   | 9.3       |
| 20°-30°   | 168.4  | 40.4      |
| 30°-40°   | 169.6  | 40.7      |
| 40°-50°   | 34.0   | 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°    | 209.0  | 50.1      |
| 0°-40°    | 378.6  | 90.8      |
| 0°-60°    | 414.4  | 99.4      |
| 0°-90°    | 417.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 417.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 33   | 25  | 14  | 8    | 7    | 5    |
| 15° | 652  | 77  | 8   | 2    | 0    | 255  |
| 25° | 2740 | 124 | 3   | 0    | 0    | 1235 |
| 35° | 2403 | 51  | 1   | 0    | 0    | 1430 |
| 45° | 291  | 6   | 0   | 0    | 0    | 317  |
| 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°  | 21.6   | 21.6   | 21.2   | 21.2   | 20.8   | 21.2   | 20.4   | 20.8   | 20.8   | 20.4   | 18.5  |
| 5°    | 32.9   | 33.7   | 33.3   | 33.3   | 32.9   | 33.3   | 32.5   | 31.8   | 31.0   | 31.0   | 24.6  |
| 7.5°  | 54.1   | 53.7   | 53.0   | 53.3   | 52.2   | 51.5   | 50.7   | 50.3   | 48.0   | 46.9   | 32.2  |
| 10°   | 102.5  | 104.8  | 102.9  | 102.5  | 95.7   | 95.3   | 90.8   | 84.4   | 78.7   | 75.7   | 42.4  |
| 12.5° | 282.2  | 294.3  | 275.4  | 266.3  | 261.0  | 240.6  | 231.9  | 209.6  | 188.0  | 171.8  | 53.7  |
| 15°   | 651.5  | 681.4  | 643.1  | 645.8  | 614.0  | 555.7  | 504.7  | 460.8  | 409.0  | 356.8  | 76.8  |
| 17.5° | 1276.4 | 1252.2 | 1231.4 | 1196.2 | 1131.5 | 1046.0 | 936.0  | 824.4  | 727.9  | 626.9  | 107.1 |
| 20°   | 1912.8 | 1891.2 | 1843.9 | 1767.1 | 1684.6 | 1557.9 | 1427.0 | 1259.4 | 1097.1 | 945.0  | 127.9 |
| 21°   | 2131.8 | 2124.6 | 2047.1 | 1999.8 | 1872.7 | 1751.6 | 1600.7 | 1421.3 | 1238.6 | 1058.5 | 131.3 |
| 22°   | 2327.4 | 2284.3 | 2242.7 | 2172.7 | 2046.3 | 1914.7 | 1746.7 | 1557.9 | 1359.7 | 1159.5 | 131.7 |
| 23°   | 2462.8 | 2443.2 | 2403.8 | 2324.8 | 2199.2 | 2044.4 | 1867.4 | 1669.9 | 1461.1 | 1231.0 | 130.5 |
| 24°   | 2612.7 | 2587.7 | 2530.2 | 2437.9 | 2311.1 | 2158.3 | 1956.3 | 1760.3 | 1533.3 | 1291.2 | 127.5 |
| 25°   | 2739.8 | 2700.8 | 2632.7 | 2533.2 | 2394.8 | 2237.0 | 2033.8 | 1818.6 | 1583.6 | 1331.7 | 124.5 |
| 26°   | 2822.3 | 2801.1 | 2713.7 | 2605.5 | 2457.2 | 2294.5 | 2087.2 | 1863.2 | 1616.2 | 1350.2 | 119.5 |
| 27°   | 2908.1 | 2869.2 | 2783.3 | 2658.8 | 2498.0 | 2332.0 | 2117.4 | 1884.8 | 1627.5 | 1351.0 | 113.5 |
| 28°   | 2957.3 | 2914.9 | 2817.7 | 2686.8 | 2524.5 | 2352.8 | 2134.8 | 1891.6 | 1625.3 | 1339.2 | 106.3 |
| 29°   | 2972.8 | 2919.5 | 2824.5 | 2691.4 | 2530.9 | 2354.3 | 2132.2 | 1881.8 | 1605.2 | 1310.5 | 98.0  |
| 30°   | 2944.1 | 2889.6 | 2799.6 | 2669.8 | 2510.5 | 2335.4 | 2107.6 | 1849.2 | 1569.6 | 1269.3 | 90.4  |
| 31°   | 2881.3 | 2835.1 | 2748.1 | 2618.0 | 2465.1 | 2291.1 | 2052.0 | 1795.9 | 1509.1 | 1214.0 | 81.7  |
| 32°   | 2798.4 | 2753.0 | 2667.5 | 2549.9 | 2394.4 | 2218.8 | 1976.0 | 1712.6 | 1438.0 | 1131.5 | 73.0  |
| 33°   | 2674.0 | 2647.8 | 2571.0 | 2458.7 | 2303.2 | 2115.6 | 1873.8 | 1613.1 | 1336.6 | 1040.0 | 65.4  |
| 34°   | 2548.0 | 2515.1 | 2461.3 | 2338.4 | 2171.2 | 1983.9 | 1740.6 | 1475.8 | 1212.9 | 937.5  | 58.3  |
| 35°   | 2402.7 | 2383.0 | 2298.7 | 2200.3 | 2032.3 | 1840.9 | 1599.1 | 1342.3 | 1068.7 | 823.2  | 51.1  |
| 36°   | 2262.0 | 2231.7 | 2135.6 | 2031.6 | 1868.5 | 1661.6 | 1422.9 | 1181.5 | 944.3  | 716.2  | 43.5  |
| 37°   | 2057.7 | 2011.5 | 1943.0 | 1833.3 | 1642.7 | 1466.4 | 1248.4 | 1024.5 | 791.1  | 600.4  | 35.2  |
| 38°   | 1817.4 | 1795.9 | 1700.9 | 1590.4 | 1432.7 | 1265.5 | 1049.8 | 859.9  | 652.6  | 501.3  | 26.9  |
| 39°   | 1534.1 | 1533.7 | 1442.9 | 1363.1 | 1208.7 | 1058.2 | 863.7  | 698.0  | 538.7  | 403.7  | 20.8  |
| 40°   | 1293.8 | 1249.2 | 1193.2 | 1093.0 | 974.5  | 846.7  | 676.4  | 546.3  | 418.0  | 325.4  | 16.3  |
| 42.5° | 678.3  | 674.5  | 641.6  | 566.3  | 500.1  | 424.9  | 337.8  | 281.5  | 220.2  | 179.3  | 10.2  |
| 45°   | 291.3  | 293.2  | 270.5  | 259.1  | 233.4  | 202.0  | 170.6  | 142.2  | 121.8  | 98.7   | 6.1   |
| 47.5° | 73.8   | 70.7   | 70.0   | 72.6   | 72.6   | 70.4   | 63.2   | 59.4   | 54.9   | 50.3   | 3.4   |
| 50°   | 31.8   | 31.0   | 30.3   | 30.3   | 28.4   | 27.2   | 25.3   | 23.1   | 21.2   | 18.9   | 1.5   |
| 52.5° | 11.7   | 12.1   | 12.5   | 12.1   | 12.1   | 11.7   | 11.7   | 11.3   | 10.2   | 9.1    | 0.8   |
| 55°   | 3.8    | 3.8    | 3.8    | 4.2    | 4.2    | 4.5    | 4.5    | 4.5    | 4.5    | 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°  | 16.6  | 14.8 | 12.5   | 10.6 | 10.2   | 9.8  |
| 5°    | 18.5  | 13.6 | 10.2   | 8.3  | 7.6    | 7.2  |
| 7.5°  | 20.1  | 12.5 | 8.3    | 6.1  | 5.3    | 4.9  |
| 10°   | 20.8  | 11.0 | 6.8    | 4.5  | 3.4    | 3.4  |
| 12.5° | 21.2  | 9.5  | 4.9    | 3.0  | 1.9    | 1.9  |
| 15°   | 20.8  | 7.9  | 3.8    | 1.5  | 0.4    | 0.4  |
| 17.5° | 18.9  | 6.4  | 2.3    | 0.4  | 0.0    | 0.0  |
| 20°   | 16.3  | 5.3  | 1.5    | 0.0  | 0.0    | 0.0  |
| 21°   | 15.5  | 4.5  | 1.1    | 0.0  | 0.0    | 0.0  |
| 22°   | 14.4  | 4.2  | 0.8    | 0.0  | 0.0    | 0.0  |
| 23°   | 13.2  | 3.8  | 0.8    | 0.0  | 0.0    | 0.0  |
| 24°   | 12.1  | 3.4  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 11.3  | 3.0  | 0.4    | 0.0  | 0.0    | 0.0  |
| 26°   | 10.6  | 2.6  | 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°   | 6.4   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 5.3   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 4.5   | 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 E3A301WMH\_5000K

**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)