

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: P1344225

Luminaire Tested: P3A13R20W2N902750DE010 E3A301WMH\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344225  
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\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

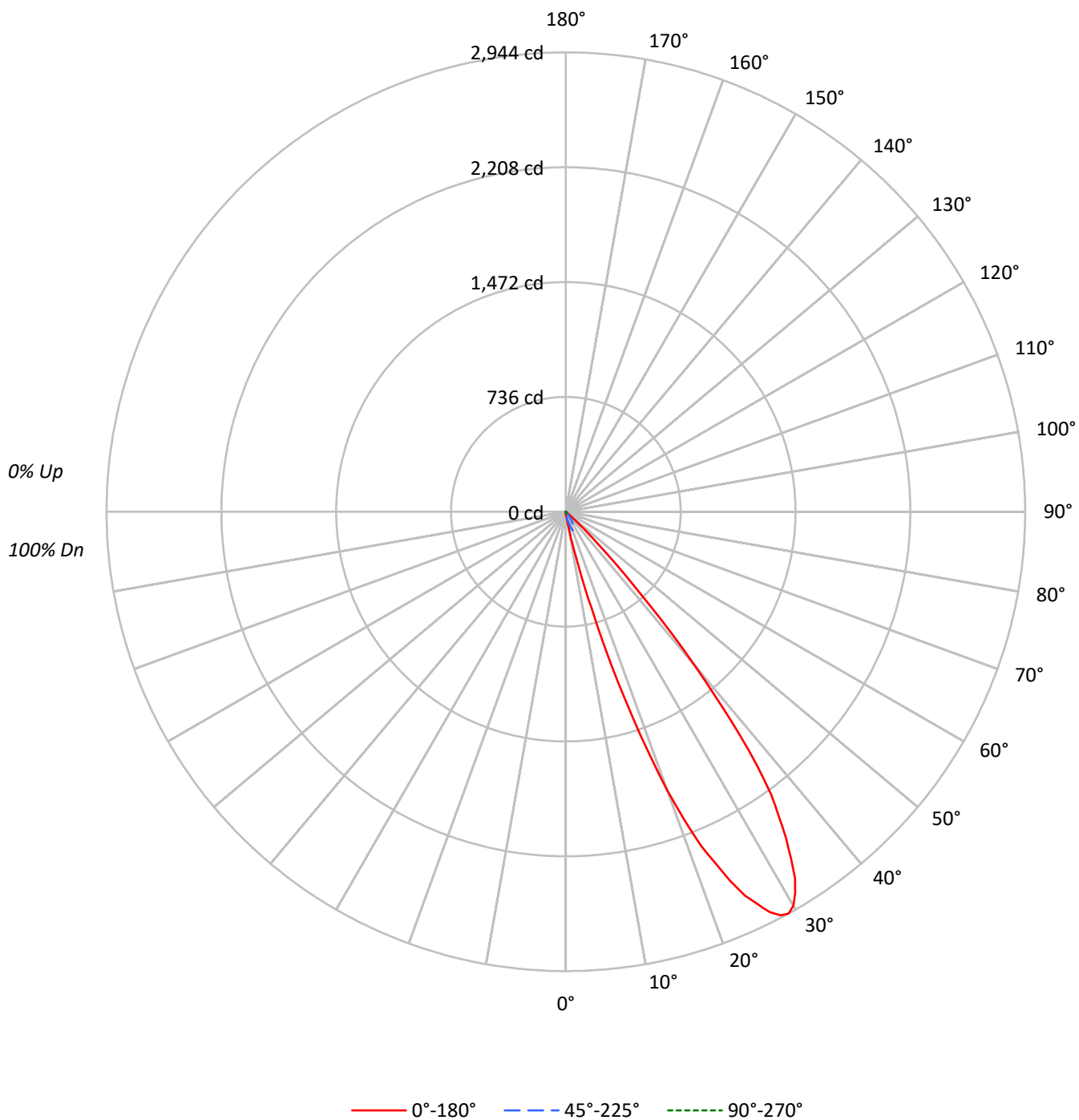
Lumens per Lamp: N/A  
Luminaire Lumens: 413.0 lumens  
Efficiency: N/A  
Efficacy: 33.6 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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°  | 3114   | 3114  | 3114 | 3114 | 3114 |
| 5°  | 7176   | 5371  | 2972 | 1805 | 1563 |
| 10° | 22600  | 9352  | 2427 | 1002 | 757  |
| 15° | 146471 | 17276 | 1793 | 341  | 91   |
| 20° | 442065 | 29543 | 1213 | 0    | 0    |
| 25° | 656530 | 29832 | 726  | 0    | 0    |
| 30° | 738291 | 22687 | 279  | 0    | 0    |
| 35° | 637001 | 13545 | 187  | 0    | 0    |
| 40° | 366802 | 4609  | 0    | 0    | 0    |
| 45° | 89467  | 1861  | 124  | 0    | 124  |
| 50° | 10746  | 512   | 136  | 136  | 375  |
| 55° | 1415   | 0     | 268  | 268  | 573  |
| 60° | 175    | 0     | 482  | 482  | 833  |
| 65° | 208    | 208   | 778  | 778  | 1141 |
| 70° | 256    | 256   | 962  | 962  | 1218 |
| 75° | 0      | 339   | 1271 | 932  | 1271 |
| 80° | 0      | 505   | 1389 | 884  | 1389 |
| 85° | 0      | 1006  | 2768 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 90056 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.5       |
| 10°-20°   | 38.3   | 9.3       |
| 20°-30°   | 166.8  | 40.4      |
| 30°-40°   | 168.0  | 40.7      |
| 40°-50°   | 33.7   | 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°    | 207.0  | 50.1      |
| 0°-40°    | 375.0  | 90.8      |
| 0°-60°    | 410.4  | 99.4      |
| 0°-90°    | 413.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 413.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 33   | 24  | 14  | 8    | 7    | 5    |
| 15° | 645  | 76  | 8   | 2    | 0    | 253  |
| 25° | 2714 | 123 | 3   | 0    | 0    | 1223 |
| 35° | 2380 | 51  | 1   | 0    | 0    | 1416 |
| 45° | 288  | 6   | 0   | 0    | 0    | 314  |
| 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°    | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2   | 14.2  |
| 2.5°  | 21.4   | 21.4   | 21.0   | 21.0   | 20.6   | 21.0   | 20.2   | 20.6   | 20.6   | 20.2   | 18.4  |
| 5°    | 32.6   | 33.3   | 33.0   | 33.0   | 32.6   | 33.0   | 32.2   | 31.5   | 30.7   | 30.7   | 24.4  |
| 7.5°  | 53.6   | 53.2   | 52.5   | 52.8   | 51.7   | 51.0   | 50.2   | 49.8   | 47.6   | 46.5   | 31.8  |
| 10°   | 101.5  | 103.8  | 101.9  | 101.5  | 94.8   | 94.4   | 89.9   | 83.6   | 77.9   | 74.9   | 42.0  |
| 12.5° | 279.5  | 291.5  | 272.8  | 263.8  | 258.5  | 238.3  | 229.7  | 207.6  | 186.2  | 170.1  | 53.2  |
| 15°   | 645.2  | 674.8  | 637.0  | 639.6  | 608.1  | 550.4  | 499.8  | 456.4  | 405.0  | 353.3  | 76.1  |
| 17.5° | 1264.2 | 1240.2 | 1219.6 | 1184.8 | 1120.7 | 1036.0 | 927.0  | 816.4  | 720.9  | 620.9  | 106.0 |
| 20°   | 1894.4 | 1873.1 | 1826.2 | 1750.2 | 1668.5 | 1543.0 | 1413.3 | 1247.3 | 1086.6 | 936.0  | 126.6 |
| 21°   | 2111.4 | 2104.3 | 2027.4 | 1980.6 | 1854.7 | 1734.8 | 1585.3 | 1407.7 | 1226.7 | 1048.4 | 130.0 |
| 22°   | 2305.1 | 2262.4 | 2221.2 | 2151.8 | 2026.7 | 1896.3 | 1729.9 | 1543.0 | 1346.6 | 1148.4 | 130.4 |
| 23°   | 2439.2 | 2419.7 | 2380.8 | 2302.5 | 2178.1 | 2024.8 | 1849.5 | 1653.9 | 1447.0 | 1219.2 | 129.3 |
| 24°   | 2587.6 | 2562.9 | 2505.9 | 2414.5 | 2289.0 | 2137.6 | 1937.5 | 1743.4 | 1518.6 | 1278.8 | 126.3 |
| 25°   | 2713.5 | 2674.9 | 2607.5 | 2508.9 | 2371.8 | 2215.5 | 2014.3 | 1801.1 | 1568.4 | 1318.9 | 123.3 |
| 26°   | 2795.2 | 2774.2 | 2687.6 | 2580.5 | 2433.6 | 2272.5 | 2067.2 | 1845.3 | 1600.7 | 1337.3 | 118.4 |
| 27°   | 2880.2 | 2841.6 | 2756.6 | 2633.3 | 2474.1 | 2309.6 | 2097.1 | 1866.7 | 1611.9 | 1338.0 | 112.4 |
| 28°   | 2928.9 | 2887.0 | 2790.7 | 2661.0 | 2500.3 | 2330.2 | 2114.4 | 1873.4 | 1609.7 | 1326.4 | 105.3 |
| 29°   | 2944.3 | 2891.5 | 2797.4 | 2665.5 | 2506.7 | 2331.7 | 2111.7 | 1863.7 | 1589.8 | 1297.9 | 97.0  |
| 30°   | 2915.8 | 2861.9 | 2772.7 | 2644.2 | 2486.4 | 2313.0 | 2087.4 | 1831.5 | 1554.6 | 1257.1 | 89.6  |
| 31°   | 2853.6 | 2807.9 | 2721.7 | 2592.8 | 2441.5 | 2269.1 | 2032.3 | 1778.6 | 1494.6 | 1202.4 | 80.9  |
| 32°   | 2771.6 | 2726.6 | 2641.9 | 2525.4 | 2371.4 | 2197.6 | 1957.0 | 1696.2 | 1424.2 | 1120.7 | 72.3  |
| 33°   | 2648.3 | 2622.4 | 2546.4 | 2435.1 | 2281.1 | 2095.3 | 1855.8 | 1597.7 | 1323.8 | 1030.0 | 64.8  |
| 34°   | 2523.5 | 2490.9 | 2437.7 | 2316.0 | 2150.3 | 1964.9 | 1723.9 | 1461.7 | 1201.3 | 928.5  | 57.7  |
| 35°   | 2379.6 | 2360.2 | 2276.6 | 2179.2 | 2012.8 | 1823.2 | 1583.8 | 1329.4 | 1058.5 | 815.3  | 50.6  |
| 36°   | 2240.3 | 2210.3 | 2115.1 | 2012.1 | 1850.6 | 1645.6 | 1409.2 | 1170.2 | 935.2  | 709.3  | 43.1  |
| 37°   | 2037.9 | 1992.2 | 1924.4 | 1815.7 | 1626.9 | 1452.3 | 1236.5 | 1014.7 | 783.5  | 594.6  | 34.8  |
| 38°   | 1800.0 | 1778.6 | 1684.6 | 1575.2 | 1418.9 | 1253.3 | 1039.8 | 851.7  | 646.3  | 496.5  | 26.6  |
| 39°   | 1519.4 | 1519.0 | 1429.1 | 1350.0 | 1197.1 | 1048.0 | 855.4  | 691.3  | 533.6  | 399.8  | 20.6  |
| 40°   | 1281.4 | 1237.2 | 1181.8 | 1082.5 | 965.2  | 838.6  | 669.9  | 541.1  | 414.0  | 322.2  | 16.1  |
| 42.5° | 671.8  | 668.1  | 635.5  | 560.9  | 495.3  | 420.8  | 334.6  | 278.8  | 218.1  | 177.6  | 10.1  |
| 45°   | 288.5  | 290.4  | 267.9  | 256.7  | 231.2  | 200.1  | 169.0  | 140.9  | 120.6  | 97.8   | 6.0   |
| 47.5° | 73.1   | 70.1   | 69.3   | 71.9   | 71.9   | 69.7   | 62.6   | 58.8   | 54.3   | 49.8   | 3.4   |
| 50°   | 31.5   | 30.7   | 30.0   | 30.0   | 28.1   | 27.0   | 25.1   | 22.9   | 21.0   | 18.7   | 1.5   |
| 52.5° | 11.6   | 12.0   | 12.4   | 12.0   | 12.0   | 11.6   | 11.6   | 11.2   | 10.1   | 9.0    | 0.7   |
| 55°   | 3.7    | 3.7    | 3.7    | 4.1    | 4.1    | 4.5    | 4.5    | 4.5    | 4.5    | 4.1    | 0.0   |
| 57.5° | 0.7    | 0.7    | 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°    | 14.2  | 14.2 | 14.2   | 14.2 | 14.2   | 14.2 |
| 2.5°  | 16.5  | 14.6 | 12.4   | 10.5 | 10.1   | 9.7  |
| 5°    | 18.4  | 13.5 | 10.1   | 8.2  | 7.5    | 7.1  |
| 7.5°  | 19.9  | 12.4 | 8.2    | 6.0  | 5.2    | 4.9  |
| 10°   | 20.6  | 10.9 | 6.7    | 4.5  | 3.4    | 3.4  |
| 12.5° | 21.0  | 9.4  | 4.9    | 3.0  | 1.9    | 1.9  |
| 15°   | 20.6  | 7.9  | 3.7    | 1.5  | 0.4    | 0.4  |
| 17.5° | 18.7  | 6.4  | 2.2    | 0.4  | 0.0    | 0.0  |
| 20°   | 16.1  | 5.2  | 1.5    | 0.0  | 0.0    | 0.0  |
| 21°   | 15.4  | 4.5  | 1.1    | 0.0  | 0.0    | 0.0  |
| 22°   | 14.2  | 4.1  | 0.7    | 0.0  | 0.0    | 0.0  |
| 23°   | 13.1  | 3.7  | 0.7    | 0.0  | 0.0    | 0.0  |
| 24°   | 12.0  | 3.4  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 11.2  | 3.0  | 0.4    | 0.0  | 0.0    | 0.0  |
| 26°   | 10.5  | 2.6  | 0.4    | 0.0  | 0.0    | 0.0  |
| 27°   | 9.4   | 2.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 8.6   | 1.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 7.5   | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 6.4   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 5.2   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 4.5   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 3.7   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 3.4   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 3.0   | 0.7  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 2.2   | 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    | 0.7  |
| 50°   | 0.0   | 0.4  | 0.4    | 0.4  | 0.7    | 1.1  |
| 52.5° | 0.0   | 0.7  | 0.4    | 0.4  | 1.1    | 1.1  |
| 55°   | 0.4   | 0.7  | 0.4    | 0.7  | 1.5    | 1.5  |
| 57.5° | 0.4   | 0.7  | 0.7    | 1.1  | 1.5    | 1.9  |
| 60°   | 0.7   | 1.1  | 1.1    | 1.1  | 1.9    | 1.9  |
| 62.5° | 0.7   | 1.1  | 1.5    | 1.5  | 1.9    | 2.2  |
| 65°   | 0.7   | 1.5  | 1.5    | 1.5  | 1.9    | 2.2  |
| 67.5° | 1.1   | 1.5  | 1.5    | 1.5  | 1.9    | 2.2  |
| 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° | 0.7   | 1.1  | 1.1    | 0.7  | 1.1    | 1.1  |
| 80°   | 0.7   | 1.1  | 0.7    | 0.7  | 1.1    | 1.1  |



TEST NUMBER: P1344225

CATALOG NUMBER: P3A13R20W2N902750DE010 E3A301WMH\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.7   | 1.1 | 0.7    | 0.4  | 0.7    | 0.7  |
| 85°   | 0.7   | 1.1 | 0.7    | 0.4  | 0.4    | 0.4  |
| 87.5° | 0.7   | 1.1 | 0.7    | 0.4  | 0.0    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)