

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: P1343788

Luminaire Tested: P3A13R15W2N902765DE010 E3A301H\_4000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343788  
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: P3A13R15W2N902765DE010 E3A301H\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,  
E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

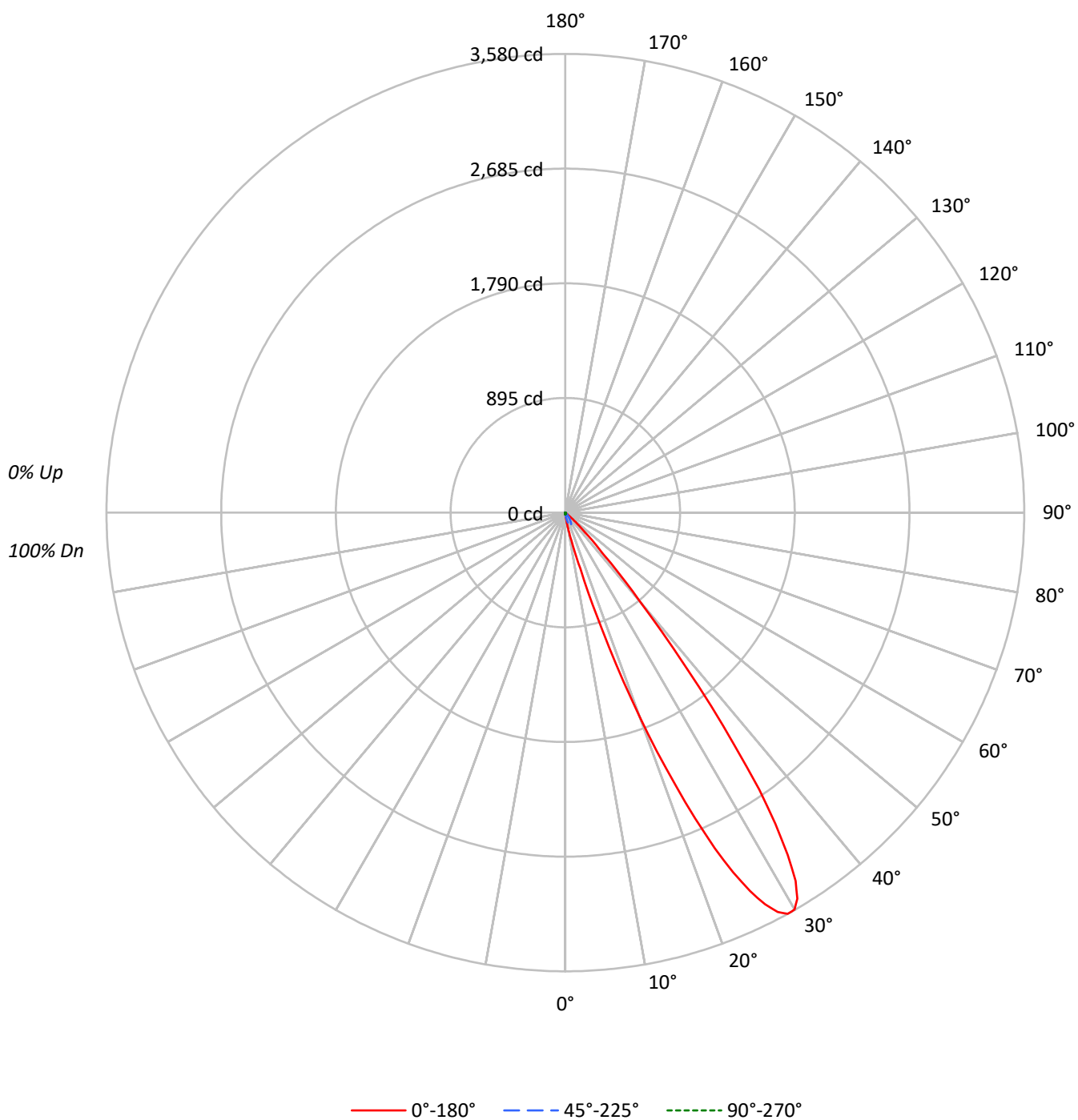
Lumens per Lamp: N/A  
Luminaire Lumens: 391.0 lumens  
Efficiency: N/A  
Efficacy: 31.8 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 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  | 47  | 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°  | 2829   | 2829  | 2829 | 2829 | 2829 |
| 5°  | 6119   | 4512  | 2685 | 1431 | 1167 |
| 10° | 27098  | 8550  | 2115 | 601  | 423  |
| 15° | 102498 | 19773 | 1476 | 250  | 182  |
| 20° | 394158 | 27862 | 887  | 93   | 93   |
| 25° | 749535 | 26131 | 460  | 0    | 0    |
| 30° | 905456 | 21092 | 203  | 0    | 0    |
| 35° | 706199 | 14348 | 107  | 0    | 0    |
| 40° | 257711 | 7070  | 115  | 0    | 115  |
| 45° | 66177  | 2109  | 124  | 0    | 248  |
| 50° | 11155  | 273   | 136  | 136  | 375  |
| 55° | 1453   | 0     | 306  | 421  | 726  |
| 60° | 175    | 175   | 482  | 658  | 1009 |
| 65° | 208    | 208   | 778  | 986  | 1193 |
| 70° | 256    | 256   | 962  | 962  | 1218 |
| 75° | 339    | 339   | 1271 | 932  | 1271 |
| 80° | 0      | 505   | 1389 | 1010 | 1389 |
| 85° | 0      | 1006  | 2768 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 66177 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.8    | 0.5       |
| 10°-20°   | 30.0   | 7.7       |
| 20°-30°   | 166.2  | 42.5      |
| 30°-40°   | 160.5  | 41.1      |
| 40°-50°   | 27.9   | 7.1       |
| 50°-60°   | 2.0    | 0.5       |
| 60°-70°   | 1.2    | 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°    | 197.9  | 50.6      |
| 0°-40°    | 358.5  | 91.7      |
| 0°-60°    | 388.4  | 99.3      |
| 0°-90°    | 391.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 391.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 13   | 13  | 13  | 13   | 13   |      |
| 5°  | 28   | 20  | 12  | 6    | 5    | 5    |
| 15° | 452  | 87  | 6   | 1    | 1    | 201  |
| 25° | 3098 | 108 | 2   | 0    | 0    | 1385 |
| 35° | 2638 | 54  | 0   | 0    | 0    | 1517 |
| 45° | 213  | 7   | 0   | 0    | 1    | 229  |
| 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°    | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   | 12.9   | 12.9  |
| 2.5°  | 19.0   | 18.3   | 18.6   | 18.6   | 18.6   | 18.6   | 18.6   | 17.9   | 17.9   | 18.3   | 16.4  |
| 5°    | 27.8   | 27.8   | 27.4   | 27.8   | 27.8   | 27.4   | 26.6   | 26.2   | 26.2   | 25.5   | 20.5  |
| 7.5°  | 55.5   | 54.8   | 54.8   | 54.0   | 50.2   | 49.1   | 48.3   | 46.4   | 43.0   | 42.2   | 26.6  |
| 10°   | 121.7  | 122.1  | 119.4  | 116.0  | 115.6  | 109.9  | 108.0  | 104.6  | 98.1   | 91.7   | 38.4  |
| 12.5° | 221.0  | 216.0  | 209.6  | 210.0  | 198.9  | 195.1  | 186.4  | 176.9  | 167.0  | 156.7  | 63.1  |
| 15°   | 451.5  | 437.4  | 445.8  | 425.2  | 402.0  | 375.8  | 349.2  | 315.7  | 287.2  | 256.7  | 87.1  |
| 17.5° | 950.9  | 964.6  | 941.4  | 853.5  | 799.5  | 736.0  | 646.6  | 560.2  | 486.5  | 427.1  | 106.5 |
| 20°   | 1689.1 | 1709.3 | 1630.5 | 1554.1 | 1422.9 | 1279.9 | 1130.8 | 961.9  | 800.2  | 660.3  | 119.4 |
| 21°   | 1997.6 | 1985.4 | 1953.1 | 1830.6 | 1679.2 | 1513.4 | 1330.8 | 1144.5 | 948.6  | 766.8  | 120.6 |
| 22°   | 2295.8 | 2301.5 | 2226.2 | 2098.0 | 1940.5 | 1756.8 | 1533.9 | 1303.8 | 1092.7 | 853.5  | 118.7 |
| 23°   | 2592.8 | 2611.1 | 2511.4 | 2391.2 | 2193.1 | 1985.8 | 1727.9 | 1479.5 | 1218.6 | 952.8  | 114.9 |
| 24°   | 2867.8 | 2855.2 | 2787.9 | 2636.5 | 2424.7 | 2182.0 | 1914.3 | 1613.0 | 1322.1 | 1037.6 | 111.8 |
| 25°   | 3097.9 | 3096.4 | 2990.7 | 2843.5 | 2601.2 | 2332.3 | 2037.1 | 1722.2 | 1410.7 | 1095.0 | 108.0 |
| 26°   | 3286.2 | 3255.4 | 3172.1 | 2992.6 | 2753.3 | 2469.6 | 2137.9 | 1801.7 | 1460.5 | 1123.9 | 104.2 |
| 27°   | 3431.5 | 3409.4 | 3297.6 | 3110.8 | 2861.0 | 2547.2 | 2202.6 | 1841.2 | 1483.3 | 1133.4 | 99.3  |
| 28°   | 3529.2 | 3505.3 | 3386.2 | 3193.8 | 2920.3 | 2595.9 | 2236.8 | 1858.0 | 1483.3 | 1124.3 | 94.7  |
| 29°   | 3579.8 | 3547.1 | 3428.4 | 3222.3 | 2934.0 | 2601.6 | 2228.4 | 1841.6 | 1460.1 | 1096.2 | 89.4  |
| 30°   | 3576.0 | 3535.3 | 3410.9 | 3196.4 | 2893.3 | 2554.8 | 2181.7 | 1782.7 | 1407.7 | 1054.3 | 83.3  |
| 31°   | 3514.4 | 3468.7 | 3329.9 | 3108.9 | 2809.2 | 2466.5 | 2093.4 | 1703.6 | 1335.8 | 999.9  | 77.2  |
| 32°   | 3389.3 | 3331.4 | 3196.0 | 2975.8 | 2679.9 | 2334.6 | 1965.2 | 1581.5 | 1228.1 | 920.4  | 70.7  |
| 33°   | 3185.4 | 3127.2 | 2981.9 | 2775.4 | 2505.0 | 2167.2 | 1795.2 | 1450.3 | 1105.7 | 825.7  | 65.4  |
| 34°   | 2930.2 | 2876.9 | 2751.8 | 2543.7 | 2284.4 | 1955.4 | 1599.7 | 1268.8 | 978.6  | 731.8  | 59.7  |
| 35°   | 2638.1 | 2553.3 | 2439.9 | 2275.2 | 2022.3 | 1691.4 | 1388.6 | 1100.0 | 847.8  | 633.3  | 53.6  |
| 36°   | 2242.9 | 2258.1 | 2137.9 | 1936.3 | 1726.8 | 1467.4 | 1176.8 | 917.0  | 709.0  | 539.7  | 48.3  |
| 37°   | 1892.6 | 1868.6 | 1792.2 | 1636.2 | 1453.7 | 1196.2 | 986.2  | 777.4  | 596.4  | 456.4  | 42.6  |
| 38°   | 1526.7 | 1532.0 | 1457.1 | 1337.3 | 1156.2 | 983.6  | 793.8  | 638.6  | 499.0  | 388.3  | 37.3  |
| 39°   | 1195.0 | 1190.9 | 1170.7 | 1059.6 | 895.7  | 782.4  | 643.2  | 529.4  | 415.7  | 327.5  | 31.6  |
| 40°   | 900.3  | 907.1  | 860.0  | 793.0  | 697.6  | 604.4  | 512.3  | 422.2  | 343.8  | 276.1  | 24.7  |
| 42.5° | 437.8  | 448.4  | 417.2  | 400.1  | 357.9  | 321.4  | 271.2  | 221.4  | 188.3  | 162.8  | 11.0  |
| 45°   | 213.4  | 207.3  | 204.6  | 196.3  | 186.4  | 166.6  | 147.6  | 126.7  | 110.7  | 95.5   | 6.8   |
| 47.5° | 109.2  | 106.1  | 106.1  | 102.7  | 99.3   | 92.8   | 83.3   | 76.4   | 68.8   | 59.3   | 2.7   |
| 50°   | 32.7   | 32.3   | 31.9   | 32.3   | 31.2   | 32.3   | 33.1   | 33.5   | 30.4   | 30.0   | 0.8   |
| 52.5° | 12.9   | 13.3   | 12.9   | 14.1   | 14.1   | 13.7   | 14.1   | 13.7   | 13.3   | 11.8   | 0.0   |
| 55°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 4.2    | 4.6    | 4.2    | 4.6    | 0.0   |
| 57.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0   |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.4   |
| 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    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 75°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 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°    | 12.9  | 12.9 | 12.9   | 12.9 | 12.9   | 12.9 |
| 2.5°  | 15.2  | 13.3 | 11.0   | 9.1  | 8.4    | 8.0  |
| 5°    | 16.4  | 12.2 | 8.4    | 6.5  | 5.7    | 5.3  |
| 7.5°  | 17.5  | 11.0 | 6.5    | 4.6  | 3.4    | 3.0  |
| 10°   | 18.3  | 9.5  | 4.9    | 2.7  | 1.9    | 1.9  |
| 12.5° | 18.3  | 7.6  | 3.4    | 1.5  | 1.1    | 1.1  |
| 15°   | 17.9  | 6.5  | 2.3    | 1.1  | 0.8    | 0.8  |
| 17.5° | 17.5  | 4.9  | 1.5    | 0.8  | 0.4    | 0.8  |
| 20°   | 16.4  | 3.8  | 0.8    | 0.4  | 0.4    | 0.4  |
| 21°   | 16.0  | 3.4  | 0.8    | 0.4  | 0.4    | 0.4  |
| 22°   | 15.2  | 3.0  | 0.4    | 0.0  | 0.4    | 0.4  |
| 23°   | 14.5  | 2.3  | 0.4    | 0.0  | 0.0    | 0.0  |
| 24°   | 13.3  | 1.9  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 12.6  | 1.9  | 0.4    | 0.0  | 0.0    | 0.0  |
| 26°   | 11.8  | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 10.6  | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 9.9   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 8.7   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 7.6   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 6.1   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 4.9   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 3.4   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 2.3   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.9   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.1   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 37°   | 1.1   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 38°   | 0.8   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 39°   | 0.4   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 40°   | 0.4   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 42.5° | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.8  |
| 45°   | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.8  |
| 47.5° | 0.0   | 0.4  | 0.0    | 0.0  | 0.8    | 0.8  |
| 50°   | 0.0   | 0.4  | 0.4    | 0.4  | 0.8    | 1.1  |
| 52.5° | 0.0   | 0.8  | 0.4    | 0.8  | 1.1    | 1.5  |
| 55°   | 0.4   | 0.8  | 0.8    | 1.1  | 1.5    | 1.9  |
| 57.5° | 0.4   | 1.1  | 1.1    | 1.5  | 1.9    | 1.9  |
| 60°   | 0.8   | 1.1  | 1.5    | 1.5  | 2.3    | 2.3  |
| 62.5° | 0.8   | 1.5  | 1.5    | 1.5  | 2.3    | 2.3  |
| 65°   | 0.8   | 1.5  | 1.5    | 1.9  | 2.3    | 2.3  |
| 67.5° | 0.8   | 1.5  | 1.5    | 1.5  | 1.9    | 2.3  |
| 70°   | 0.8   | 1.5  | 1.1    | 1.5  | 1.9    | 1.9  |
| 72.5° | 0.8   | 1.5  | 1.1    | 1.1  | 1.5    | 1.9  |
| 75°   | 0.8   | 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  |



TEST NUMBER: P1343788

CATALOG NUMBER: P3A13R15W2N902765DE010 E3A301H\_4000K

**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 | 0.4    | 0.0  | 0.0    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)