

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: P1343841

Luminaire Tested: P3A13R15W2N902765DE010 E3A451WH\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R15W2N902765DE010 E3A451WH\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3500K CCT AND, 90CRI ,  
E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

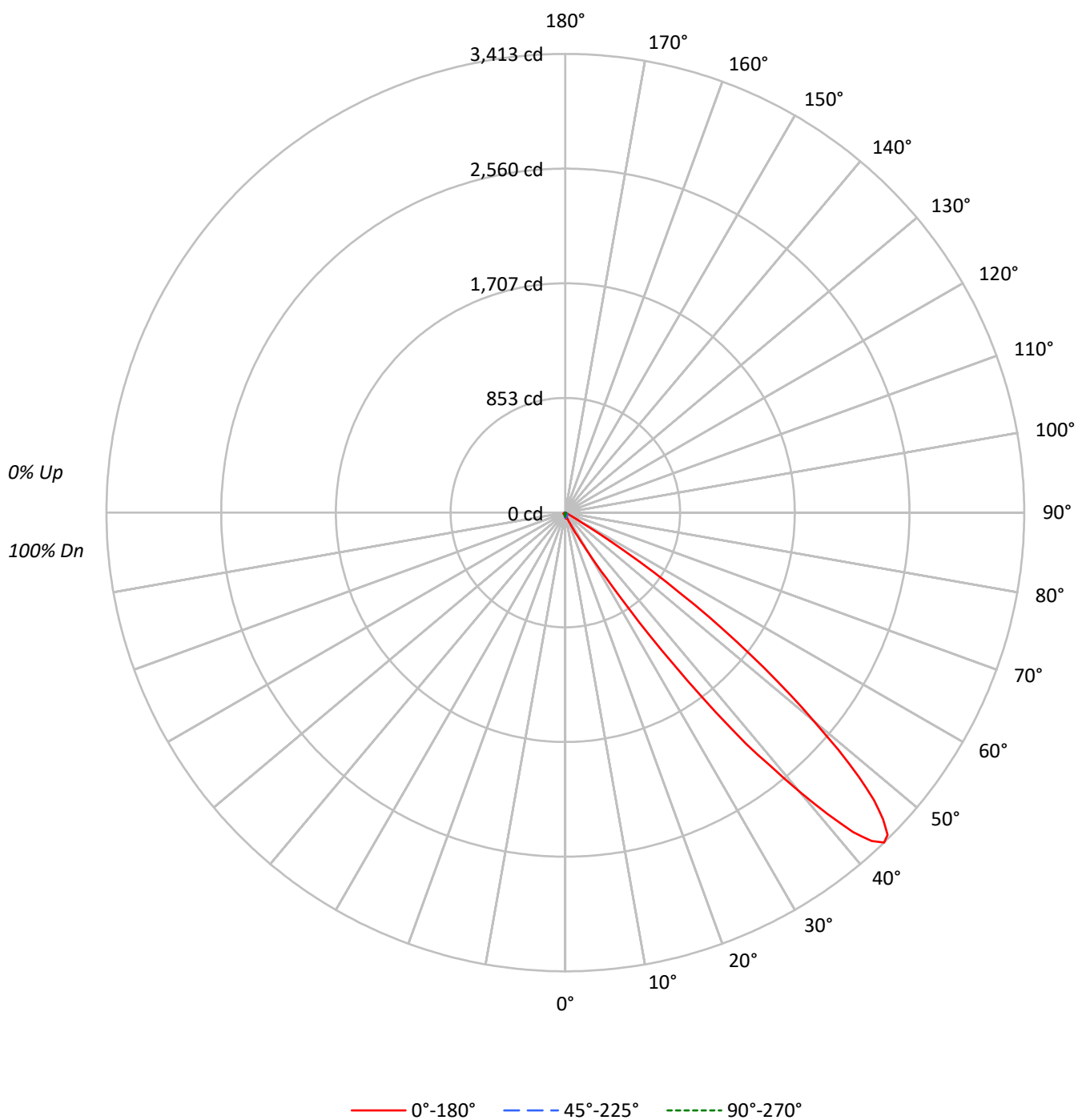
Lumens per Lamp: N/A  
Luminaire Lumens: 381.0 lumens  
Efficiency: N/A  
Efficacy: 31.0 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1343841

CATALOG NUMBER: P3A13R15W2N902765DE010 E3A451WH\_3500K

### 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  | 0   |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |  |  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |  |  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |  |  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 50  |  |  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  |  |  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |  |  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |  |  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  | 24  |  |  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |  |  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  | 17  |  |  |

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

|     | 0°      | 45°  | 90°  | 135° | 180° |
|-----|---------|------|------|------|------|
| 0°  | 7412    | 7412 | 7412 | 7412 | 7412 |
| 5°  | 9201    | 8188 | 6692 | 5855 | 5767 |
| 10° | 9040    | 7014 | 5166 | 4565 | 4654 |
| 15° | 7514    | 4994 | 3700 | 3791 | 4064 |
| 20° | 13021   | 3990 | 2847 | 3290 | 3734 |
| 25° | 29034   | 4791 | 2299 | 3024 | 3484 |
| 30° | 86849   | 5874 | 2026 | 2988 | 3646 |
| 35° | 334374  | 6612 | 1820 | 3052 | 3855 |
| 40° | 776111  | 5754 | 1746 | 3149 | 4122 |
| 45° | 1051210 | 4373 | 1520 | 3411 | 4466 |
| 50° | 824229  | 2593 | 1569 | 3616 | 4912 |
| 55° | 395608  | 1147 | 1453 | 3938 | 5390 |
| 60° | 36137   | 175  | 1316 | 4166 | 6008 |
| 65° | 3943    | 0    | 1193 | 4358 | 6486 |
| 70° | 962     | 0    | 1475 | 4616 | 7052 |
| 75° | 932     | 339  | 1949 | 5168 | 8049 |
| 80° | 1010    | 1010 | 2399 | 5304 | 8587 |
| 85° | 1006    | 1006 | 3774 | 4780 | 9561 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 1051210 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.9    | 0.8       |
| 10°-20°   | 6.0    | 1.6       |
| 20°-30°   | 14.4   | 3.8       |
| 30°-40°   | 78.8   | 20.7      |
| 40°-50°   | 190.8  | 50.1      |
| 50°-60°   | 76.1   | 20.0      |
| 60°-70°   | 6.6    | 1.7       |
| 70°-80°   | 3.7    | 1.0       |
| 80°-90°   | 1.6    | 0.4       |
| 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°    | 23.3   | 6.1       |
| 0°-40°    | 102.1  | 26.8      |
| 0°-60°    | 369.1  | 96.9      |
| 0°-90°    | 381.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 381.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 34   | 34  | 34  | 34   | 34   |      |
| 5°  | 42   | 37  | 30  | 27   | 26   | 4    |
| 15° | 33   | 22  | 16  | 17   | 18   | 12   |
| 25° | 120  | 20  | 10  | 12   | 14   | 72   |
| 35° | 1249 | 25  | 7   | 11   | 14   | 883  |
| 45° | 3390 | 14  | 5   | 11   | 14   | 2391 |
| 55° | 1035 | 3   | 4   | 10   | 14   | 964  |
| 65° | 8    | 0   | 2   | 8    | 12   | 19   |
| 75° | 1    | 0   | 2   | 6    | 10   | 1    |
| 85° | 0    | 0   | 2   | 2    | 4    | 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°    | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8   | 33.8  | 33.8  | 33.8  | 33.8 |
| 2.5°  | 38.0   | 38.0   | 38.4   | 38.0   | 38.0   | 38.0   | 38.0   | 37.6  | 37.6  | 37.6  | 36.5 |
| 5°    | 41.8   | 41.8   | 41.8   | 41.8   | 41.4   | 41.4   | 41.4   | 41.0  | 41.0  | 40.6  | 37.2 |
| 7.5°  | 43.3   | 43.3   | 42.9   | 42.9   | 42.5   | 42.5   | 42.2   | 41.8  | 41.4  | 41.0  | 35.7 |
| 10°   | 40.6   | 40.6   | 40.6   | 40.3   | 40.3   | 39.9   | 39.5   | 39.1  | 38.7  | 38.0  | 31.5 |
| 12.5° | 36.1   | 36.1   | 36.5   | 36.1   | 35.7   | 35.3   | 34.6   | 34.2  | 33.8  | 33.1  | 26.2 |
| 15°   | 33.1   | 33.1   | 33.1   | 32.7   | 32.3   | 31.5   | 31.2   | 30.4  | 30.0  | 28.9  | 22.0 |
| 17.5° | 42.2   | 42.2   | 41.8   | 41.0   | 39.5   | 38.4   | 36.5   | 35.0  | 33.1  | 30.8  | 19.0 |
| 20°   | 55.8   | 55.8   | 55.1   | 54.3   | 52.4   | 50.5   | 47.5   | 44.8  | 41.8  | 39.1  | 17.1 |
| 22.5° | 80.9   | 82.1   | 79.8   | 77.1   | 74.5   | 69.9   | 65.7   | 61.5  | 56.2  | 51.7  | 17.5 |
| 25°   | 120.0  | 121.2  | 120.0  | 114.0  | 109.0  | 103.0  | 95.0   | 86.6  | 77.5  | 69.1  | 19.8 |
| 27.5° | 194.5  | 195.3  | 193.4  | 178.5  | 170.6  | 154.6  | 140.6  | 126.9 | 111.7 | 96.5  | 21.7 |
| 30°   | 343.0  | 343.4  | 331.3  | 301.6  | 275.4  | 240.5  | 210.8  | 182.3 | 158.4 | 134.1 | 23.2 |
| 31°   | 451.7  | 441.1  | 415.2  | 379.5  | 337.7  | 290.6  | 250.0  | 213.1 | 177.4 | 151.2 | 23.6 |
| 32°   | 573.6  | 572.1  | 529.2  | 467.3  | 411.4  | 352.5  | 291.4  | 244.3 | 203.2 | 167.5 | 23.9 |
| 33°   | 735.1  | 735.9  | 668.2  | 595.3  | 503.7  | 424.7  | 344.6  | 280.0 | 230.6 | 186.9 | 24.7 |
| 34°   | 987.3  | 928.1  | 848.7  | 749.9  | 625.3  | 506.4  | 402.3  | 321.4 | 255.3 | 205.5 | 24.7 |
| 35°   | 1249.1 | 1189.4 | 1102.1 | 952.4  | 781.4  | 615.0  | 471.1  | 365.8 | 284.9 | 225.7 | 24.7 |
| 36°   | 1542.4 | 1491.8 | 1359.6 | 1168.6 | 950.5  | 717.6  | 544.0  | 417.1 | 314.2 | 243.9 | 24.3 |
| 37°   | 1859.2 | 1785.1 | 1638.5 | 1429.9 | 1138.2 | 862.0  | 632.9  | 468.0 | 343.4 | 263.6 | 23.6 |
| 38°   | 2181.0 | 2114.1 | 1929.1 | 1676.5 | 1362.3 | 1014.3 | 721.8  | 517.0 | 370.4 | 278.5 | 22.4 |
| 39°   | 2424.9 | 2388.4 | 2204.9 | 1922.6 | 1541.2 | 1158.7 | 813.4  | 569.5 | 398.9 | 293.3 | 21.3 |
| 40°   | 2711.3 | 2652.4 | 2478.4 | 2129.3 | 1752.8 | 1305.7 | 903.0  | 615.8 | 422.4 | 305.1 | 20.1 |
| 41°   | 2972.7 | 2898.2 | 2678.6 | 2341.3 | 1922.3 | 1437.9 | 988.1  | 663.7 | 441.4 | 311.9 | 19.4 |
| 42°   | 3196.8 | 3110.2 | 2880.7 | 2522.9 | 2064.0 | 1543.5 | 1056.1 | 697.9 | 459.3 | 317.6 | 18.2 |
| 43°   | 3341.9 | 3267.1 | 3041.4 | 2659.2 | 2185.1 | 1640.4 | 1119.5 | 733.6 | 470.3 | 321.4 | 16.7 |
| 44°   | 3412.6 | 3337.0 | 3118.5 | 2744.7 | 2259.6 | 1698.5 | 1160.6 | 758.3 | 482.5 | 326.3 | 15.6 |
| 45°   | 3389.8 | 3313.0 | 3101.8 | 2746.2 | 2282.8 | 1719.4 | 1178.0 | 769.3 | 488.9 | 330.9 | 14.1 |
| 46°   | 3285.3 | 3231.4 | 3018.6 | 2674.8 | 2238.7 | 1697.0 | 1168.2 | 760.9 | 486.6 | 330.9 | 12.5 |
| 47°   | 3138.7 | 3077.1 | 2874.6 | 2552.1 | 2132.0 | 1639.2 | 1128.3 | 735.5 | 472.6 | 323.3 | 11.0 |
| 48°   | 2938.9 | 2886.4 | 2673.7 | 2357.2 | 1968.2 | 1513.5 | 1038.2 | 694.1 | 450.6 | 308.5 | 9.5  |
| 49°   | 2688.1 | 2615.2 | 2417.3 | 2108.0 | 1754.7 | 1334.9 | 920.1  | 624.2 | 415.2 | 287.6 | 8.4  |
| 50°   | 2416.1 | 2326.1 | 2173.4 | 1858.4 | 1534.0 | 1144.6 | 764.7  | 527.7 | 365.5 | 260.2 | 7.6  |
| 51°   | 2149.8 | 2058.3 | 1912.8 | 1644.9 | 1298.5 | 949.7  | 616.9  | 421.3 | 300.9 | 222.6 | 6.5  |
| 52°   | 1873.6 | 1796.9 | 1633.9 | 1423.5 | 1111.6 | 769.7  | 514.0  | 356.3 | 250.0 | 186.9 | 5.3  |
| 53°   | 1598.6 | 1546.2 | 1391.2 | 1178.0 | 893.1  | 628.7  | 419.8  | 305.1 | 218.1 | 159.9 | 4.2  |
| 54°   | 1323.2 | 1265.8 | 1148.0 | 958.1  | 719.9  | 496.1  | 356.0  | 255.3 | 189.2 | 139.4 | 3.8  |
| 55°   | 1034.8 | 1005.2 | 896.5  | 730.5  | 545.5  | 395.8  | 288.7  | 219.6 | 158.4 | 116.6 | 3.0  |
| 56°   | 797.0  | 763.6  | 664.4  | 530.0  | 405.3  | 310.0  | 233.6  | 179.3 | 134.1 | 97.6  | 2.3  |
| 57°   | 522.0  | 487.8  | 422.1  | 370.0  | 295.2  | 226.0  | 178.5  | 141.3 | 109.0 | 80.9  | 1.9  |
| 58°   | 308.5  | 277.3  | 267.1  | 227.9  | 196.8  | 153.5  | 131.8  | 105.2 | 80.5  | 63.8  | 1.1  |
| 59°   | 141.7  | 144.0  | 128.0  | 120.0  | 109.0  | 97.6   | 80.2   | 70.3  | 55.1  | 46.0  | 0.8  |
| 60°   | 82.4   | 77.9   | 76.0   | 68.0   | 60.4   | 53.6   | 48.2   | 42.5  | 34.6  | 29.6  | 0.4  |
| 62.5° | 28.1   | 27.0   | 27.7   | 25.1   | 23.6   | 22.8   | 20.9   | 17.9  | 14.8  | 12.2  | 0.0  |
| 65°   | 7.6    | 7.6    | 7.2    | 6.8    | 6.5    | 6.1    | 5.7    | 4.9   | 4.6   | 3.8   | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 2.7 | 2.7  | 2.3 | 2.3  | 1.9 | 1.9   | 1.5 | 1.5   | 1.1 | 1.1   | 0.0 |
| 70°   | 1.5 | 1.5  | 1.5 | 1.1  | 1.1 | 1.1   | 0.8 | 0.8   | 0.8 | 0.4   | 0.0 |
| 72.5° | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 |
| 75°   | 1.1 | 1.1  | 1.1 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.4 |
| 77.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 |
| 80°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.4   | 0.8 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 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°    | 33.8  | 33.8 | 33.8   | 33.8 | 33.8   | 33.8 |
| 2.5°  | 35.0  | 33.4 | 31.5   | 30.4 | 30.0   | 29.6 |
| 5°    | 33.4  | 30.4 | 28.1   | 26.6 | 26.2   | 26.2 |
| 7.5°  | 30.0  | 26.6 | 24.3   | 23.6 | 23.2   | 23.2 |
| 10°   | 26.2  | 23.2 | 21.3   | 20.5 | 20.9   | 20.9 |
| 12.5° | 22.0  | 19.4 | 18.6   | 18.6 | 19.0   | 19.4 |
| 15°   | 17.9  | 16.3 | 16.3   | 16.7 | 17.5   | 17.9 |
| 17.5° | 14.8  | 14.1 | 14.4   | 15.2 | 16.0   | 16.7 |
| 20°   | 12.2  | 12.2 | 12.9   | 14.1 | 15.2   | 16.0 |
| 22.5° | 10.3  | 10.6 | 11.8   | 12.9 | 14.4   | 15.2 |
| 25°   | 8.7   | 9.5  | 10.6   | 12.5 | 14.1   | 14.4 |
| 27.5° | 7.6   | 8.7  | 10.3   | 12.2 | 13.7   | 14.4 |
| 30°   | 6.5   | 8.0  | 9.9    | 11.8 | 13.7   | 14.4 |
| 31°   | 6.1   | 7.6  | 9.5    | 11.8 | 13.7   | 14.4 |
| 32°   | 5.7   | 7.6  | 9.5    | 11.8 | 13.7   | 14.4 |
| 33°   | 5.3   | 7.2  | 9.5    | 11.4 | 13.7   | 14.4 |
| 34°   | 4.9   | 7.2  | 9.5    | 11.8 | 13.7   | 14.4 |
| 35°   | 4.6   | 6.8  | 9.1    | 11.4 | 13.3   | 14.4 |
| 36°   | 4.2   | 6.8  | 9.1    | 11.4 | 13.7   | 14.4 |
| 37°   | 3.8   | 6.8  | 9.1    | 11.4 | 13.3   | 14.4 |
| 38°   | 3.8   | 6.5  | 8.7    | 11.4 | 13.3   | 14.4 |
| 39°   | 3.4   | 6.1  | 8.7    | 11.4 | 13.3   | 14.4 |
| 40°   | 3.0   | 6.1  | 8.4    | 11.0 | 13.3   | 14.4 |
| 41°   | 2.7   | 5.7  | 8.4    | 11.0 | 13.3   | 14.4 |
| 42°   | 2.3   | 5.7  | 8.4    | 11.0 | 13.3   | 14.4 |
| 43°   | 1.9   | 5.3  | 8.0    | 11.0 | 13.3   | 14.4 |
| 44°   | 1.9   | 5.3  | 8.0    | 11.0 | 13.3   | 14.4 |
| 45°   | 1.5   | 4.9  | 7.6    | 11.0 | 13.3   | 14.4 |
| 46°   | 1.5   | 4.9  | 7.6    | 10.6 | 13.3   | 14.4 |
| 47°   | 1.1   | 4.9  | 7.6    | 10.6 | 13.3   | 14.4 |
| 48°   | 1.1   | 4.6  | 7.6    | 10.6 | 13.3   | 14.4 |
| 49°   | 0.8   | 4.6  | 7.6    | 10.6 | 13.3   | 14.4 |
| 50°   | 0.8   | 4.6  | 7.2    | 10.6 | 13.3   | 14.4 |
| 51°   | 0.8   | 4.6  | 7.2    | 10.6 | 13.3   | 14.4 |
| 52°   | 0.8   | 4.2  | 7.2    | 10.6 | 13.3   | 14.4 |
| 53°   | 0.8   | 4.2  | 7.2    | 10.6 | 13.3   | 14.4 |
| 54°   | 0.8   | 4.2  | 6.8    | 10.6 | 13.3   | 14.4 |
| 55°   | 0.8   | 3.8  | 6.8    | 10.3 | 13.3   | 14.1 |
| 56°   | 0.8   | 3.8  | 6.8    | 10.3 | 13.3   | 14.1 |
| 57°   | 0.8   | 3.8  | 6.5    | 10.3 | 13.3   | 14.1 |
| 58°   | 0.8   | 3.4  | 6.5    | 9.9  | 12.9   | 14.1 |
| 59°   | 0.8   | 3.4  | 6.1    | 9.9  | 12.9   | 13.7 |
| 60°   | 0.8   | 3.0  | 6.1    | 9.5  | 12.5   | 13.7 |
| 62.5° | 0.8   | 2.7  | 5.3    | 9.1  | 12.2   | 12.9 |
| 65°   | 0.8   | 2.3  | 4.9    | 8.4  | 11.8   | 12.5 |



TEST NUMBER: P1343841

CATALOG NUMBER: P3A13R15W2N902765DE010 E3A451WH\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 2.3 | 4.6    | 8.0  | 11.0   | 12.2 |
| 70°   | 0.8   | 2.3 | 4.2    | 7.2  | 10.6   | 11.0 |
| 72.5° | 1.1   | 2.3 | 3.8    | 6.8  | 9.9    | 10.3 |
| 75°   | 1.5   | 2.3 | 3.4    | 6.1  | 9.1    | 9.5  |
| 77.5° | 1.5   | 2.3 | 3.0    | 5.3  | 8.0    | 8.4  |
| 80°   | 1.5   | 1.9 | 2.7    | 4.2  | 6.5    | 6.8  |
| 82.5° | 1.5   | 1.9 | 1.9    | 3.4  | 4.9    | 5.3  |
| 85°   | 1.1   | 1.5 | 1.5    | 1.9  | 3.4    | 3.8  |
| 87.5° | 1.1   | 1.5 | 0.8    | 1.1  | 1.5    | 1.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)