

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: P1343865

Luminaire Tested: P3A13R15W2N902765DE010 E3CA451MMS\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343865  
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 E3CA451MMS\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3500K CCT AND, 90CRI ,  
E3CA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

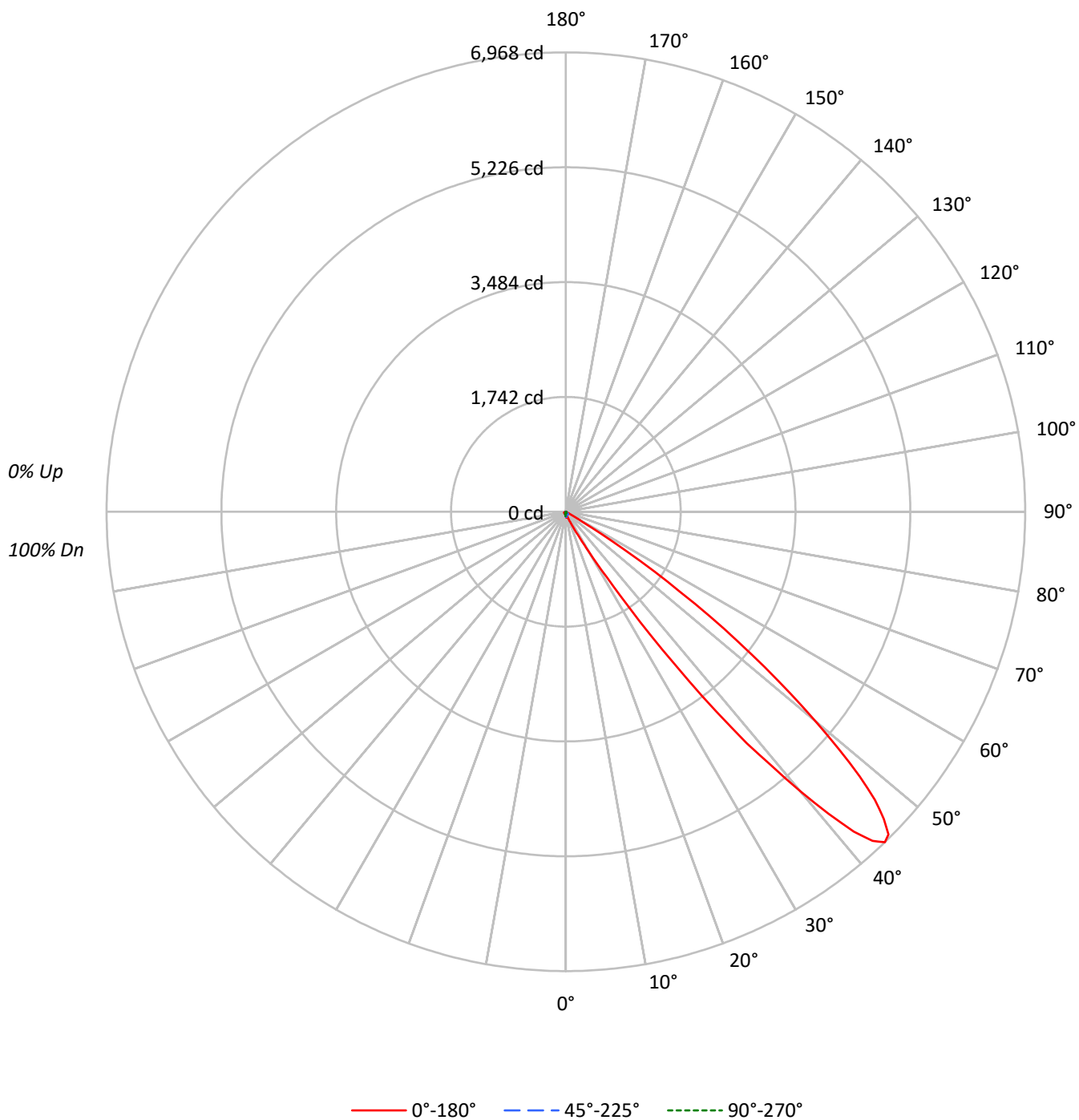
Lumens per Lamp: N/A  
Luminaire Lumens: 778.1 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





TEST NUMBER: P1343865

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### COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    |   |  |  |  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    |    | 0 |  |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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°  | 15130   | 15130 | 15130 | 15130 | 15130 |
| 5°  | 18776   | 16729 | 13669 | 11952 | 11776 |
| 10° | 18481   | 14340 | 10532 | 9330  | 9508  |
| 15° | 15324   | 10216 | 7582  | 7741  | 8286  |
| 20° | 26602   | 8144  | 5787  | 6697  | 7607  |
| 25° | 59302   | 9751  | 4694  | 6194  | 7138  |
| 30° | 177369  | 11977 | 4127  | 6077  | 7470  |
| 35° | 682776  | 13492 | 3748  | 6237  | 7897  |
| 40° | 1584826 | 11765 | 3550  | 6441  | 8444  |
| 45° | 2146548 | 8900  | 3132  | 6977  | 9148  |
| 50° | 1683083 | 5288  | 3173  | 7403  | 10064 |
| 55° | 807847  | 2370  | 2982  | 7990  | 10972 |
| 60° | 73810   | 351   | 2719  | 8508  | 12236 |
| 65° | 8042    | 0     | 2439  | 8873  | 13283 |
| 70° | 1988    | 0     | 3013  | 9425  | 14426 |
| 75° | 1949    | 678   | 3982  | 10506 | 16436 |
| 80° | 2020    | 2020  | 4925  | 10734 | 17679 |
| 85° | 2013    | 2013  | 7799  | 9812  | 19625 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 2146548 cd/sqm

TEST NUMBER: P1343865

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.9    | 0.8       |
| 10°-20°   | 12.3   | 1.6       |
| 20°-30°   | 29.4   | 3.8       |
| 30°-40°   | 160.9  | 20.7      |
| 40°-50°   | 389.7  | 50.1      |
| 50°-60°   | 155.5  | 20.0      |
| 60°-70°   | 13.4   | 1.7       |
| 70°-80°   | 7.6    | 1.0       |
| 80°-90°   | 3.4    | 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°    | 47.6   | 6.1       |
| 0°-40°    | 208.5  | 26.8      |
| 0°-60°    | 753.7  | 96.9      |
| 0°-90°    | 778.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 778.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 69   | 69  | 69  | 69   | 69   |      |
| 5°  | 85   | 76  | 62  | 54   | 54   | 8    |
| 15° | 68   | 45  | 33  | 34   | 36   | 23   |
| 25° | 245  | 40  | 19  | 26   | 30   | 148  |
| 35° | 2551 | 50  | 14  | 23   | 30   | 1802 |
| 45° | 6922 | 29  | 10  | 22   | 30   | 4883 |
| 55° | 2113 | 6   | 8   | 21   | 29   | 1969 |
| 65° | 16   | 0   | 5   | 17   | 26   | 40   |
| 75° | 2    | 1   | 5   | 12   | 19   | 2    |
| 85° | 1    | 1   | 3   | 4    | 8    | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1343865

CATALOG NUMBER: P3A13R15W2N902765DE010 E3CA451MMS\_3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 69.0   | 69.0   | 69.0   | 69.0   | 69.0   | 69.0   | 69.0   | 69.0   | 69.0  | 69.0  | 69.0 |
| 2.5°  | 77.6   | 77.6   | 78.3   | 77.6   | 77.6   | 77.6   | 77.6   | 76.8   | 76.8  | 76.8  | 74.5 |
| 5°    | 85.3   | 85.3   | 85.3   | 85.3   | 84.6   | 84.6   | 84.6   | 83.8   | 83.8  | 83.0  | 76.0 |
| 7.5°  | 88.4   | 88.4   | 87.7   | 87.7   | 86.9   | 86.9   | 86.1   | 85.3   | 84.6  | 83.8  | 72.9 |
| 10°   | 83.0   | 83.0   | 83.0   | 82.2   | 82.2   | 81.5   | 80.7   | 79.9   | 79.1  | 77.6  | 64.4 |
| 12.5° | 73.7   | 73.7   | 74.5   | 73.7   | 72.9   | 72.1   | 70.6   | 69.8   | 69.0  | 67.5  | 53.5 |
| 15°   | 67.5   | 67.5   | 67.5   | 66.7   | 65.9   | 64.4   | 63.6   | 62.1   | 61.3  | 59.0  | 45.0 |
| 17.5° | 86.1   | 86.1   | 85.3   | 83.8   | 80.7   | 78.3   | 74.5   | 71.4   | 67.5  | 62.8  | 38.8 |
| 20°   | 114.0  | 114.0  | 112.5  | 110.9  | 107.1  | 103.2  | 97.0   | 91.5   | 85.3  | 79.9  | 34.9 |
| 22.5° | 165.2  | 167.6  | 162.9  | 157.5  | 152.0  | 142.7  | 134.2  | 125.7  | 114.8 | 105.5 | 35.7 |
| 25°   | 245.1  | 247.5  | 245.1  | 232.7  | 222.6  | 210.2  | 193.9  | 176.9  | 158.3 | 141.2 | 40.3 |
| 27.5° | 397.2  | 398.7  | 394.9  | 364.6  | 348.3  | 315.7  | 287.0  | 259.1  | 228.1 | 197.0 | 44.2 |
| 30°   | 700.5  | 701.3  | 676.4  | 615.9  | 562.4  | 491.0  | 430.5  | 372.4  | 323.5 | 273.8 | 47.3 |
| 31°   | 922.4  | 900.6  | 847.9  | 775.0  | 689.6  | 593.4  | 510.4  | 435.2  | 362.3 | 308.7 | 48.1 |
| 32°   | 1171.4 | 1168.3 | 1080.6 | 954.2  | 840.1  | 719.9  | 595.0  | 498.8  | 415.0 | 342.1 | 48.9 |
| 33°   | 1501.1 | 1502.6 | 1364.5 | 1215.6 | 1028.6 | 867.3  | 703.6  | 571.7  | 470.9 | 381.7 | 50.4 |
| 34°   | 2016.1 | 1895.1 | 1733.0 | 1531.3 | 1276.9 | 1034.1 | 821.5  | 656.3  | 521.3 | 419.7 | 50.4 |
| 35°   | 2550.6 | 2428.8 | 2250.4 | 1944.8 | 1595.7 | 1255.9 | 961.9  | 747.0  | 581.8 | 460.8 | 50.4 |
| 36°   | 3149.5 | 3046.3 | 2776.4 | 2386.2 | 1940.9 | 1465.4 | 1110.9 | 851.8  | 641.5 | 498.0 | 49.6 |
| 37°   | 3796.5 | 3645.2 | 3345.8 | 2919.9 | 2324.1 | 1760.2 | 1292.4 | 955.7  | 701.3 | 538.4 | 48.1 |
| 38°   | 4453.5 | 4317.0 | 3939.2 | 3423.3 | 2781.8 | 2071.2 | 1473.9 | 1055.8 | 756.3 | 568.6 | 45.8 |
| 39°   | 4951.5 | 4877.1 | 4502.4 | 3926.0 | 3147.2 | 2366.0 | 1660.9 | 1162.8 | 814.5 | 598.9 | 43.4 |
| 40°   | 5536.5 | 5416.2 | 5060.9 | 4348.0 | 3579.3 | 2666.2 | 1843.9 | 1257.5 | 862.6 | 622.9 | 41.1 |
| 41°   | 6070.2 | 5918.1 | 5469.7 | 4780.9 | 3925.2 | 2936.2 | 2017.7 | 1355.2 | 901.4 | 636.9 | 39.6 |
| 42°   | 6527.8 | 6351.0 | 5882.4 | 5151.7 | 4214.6 | 3151.8 | 2156.6 | 1425.0 | 937.9 | 648.5 | 37.2 |
| 43°   | 6824.2 | 6671.4 | 6210.6 | 5430.2 | 4462.1 | 3349.6 | 2286.1 | 1498.0 | 960.4 | 656.3 | 34.1 |
| 44°   | 6968.5 | 6814.1 | 6368.0 | 5604.7 | 4614.1 | 3468.3 | 2369.9 | 1548.4 | 985.2 | 666.4 | 31.8 |
| 45°   | 6921.9 | 6765.2 | 6333.9 | 5607.8 | 4661.4 | 3511.0 | 2405.6 | 1570.9 | 998.4 | 675.7 | 28.7 |
| 46°   | 6708.6 | 6598.4 | 6164.0 | 5462.0 | 4571.4 | 3465.2 | 2385.4 | 1553.8 | 993.7 | 675.7 | 25.6 |
| 47°   | 6409.2 | 6283.5 | 5870.0 | 5211.4 | 4353.4 | 3347.3 | 2303.9 | 1501.8 | 965.0 | 660.2 | 22.5 |
| 48°   | 6001.1 | 5894.1 | 5459.7 | 4813.5 | 4019.1 | 3090.5 | 2120.1 | 1417.3 | 920.0 | 629.9 | 19.4 |
| 49°   | 5489.1 | 5340.2 | 4936.0 | 4304.6 | 3583.1 | 2725.9 | 1878.8 | 1274.5 | 847.9 | 587.2 | 17.1 |
| 50°   | 4933.7 | 4749.9 | 4438.0 | 3794.9 | 3132.4 | 2337.3 | 1561.6 | 1077.5 | 746.3 | 531.4 | 15.5 |
| 51°   | 4389.9 | 4203.0 | 3905.8 | 3359.0 | 2651.5 | 1939.3 | 1259.8 | 860.3  | 614.4 | 454.6 | 13.2 |
| 52°   | 3825.9 | 3669.2 | 3336.5 | 2906.7 | 2269.8 | 1571.6 | 1049.6 | 727.6  | 510.4 | 381.7 | 10.9 |
| 53°   | 3264.3 | 3157.3 | 2840.8 | 2405.6 | 1823.8 | 1283.8 | 857.2  | 622.9  | 445.3 | 326.6 | 8.5  |
| 54°   | 2701.9 | 2584.8 | 2344.3 | 1956.4 | 1470.0 | 1013.1 | 726.9  | 521.3  | 386.3 | 284.7 | 7.8  |
| 55°   | 2113.1 | 2052.6 | 1830.7 | 1491.7 | 1114.0 | 808.3  | 589.6  | 448.4  | 323.5 | 238.2 | 6.2  |
| 56°   | 1627.5 | 1559.2 | 1356.8 | 1082.2 | 827.7  | 633.0  | 477.1  | 366.1  | 273.8 | 199.4 | 4.7  |
| 57°   | 1065.9 | 996.0  | 861.8  | 755.6  | 602.7  | 461.6  | 364.6  | 288.6  | 222.6 | 165.2 | 3.9  |
| 58°   | 629.9  | 566.3  | 545.3  | 465.4  | 401.8  | 313.4  | 269.2  | 214.9  | 164.5 | 130.3 | 2.3  |
| 59°   | 289.4  | 294.0  | 261.4  | 245.1  | 222.6  | 199.4  | 163.7  | 143.5  | 112.5 | 93.9  | 1.6  |
| 60°   | 168.3  | 159.0  | 155.1  | 138.9  | 123.3  | 109.4  | 98.5   | 86.9   | 70.6  | 60.5  | 0.8  |
| 62.5° | 57.4   | 55.1   | 56.6   | 51.2   | 48.1   | 46.5   | 42.7   | 36.5   | 30.3  | 24.8  | 0.0  |
| 65°   | 15.5   | 15.5   | 14.7   | 14.0   | 13.2   | 12.4   | 11.6   | 10.1   | 9.3   | 7.8   | 0.0  |



TEST NUMBER: P1343865

CATALOG NUMBER: P3A13R15W2N902765DE010 E3CA451MMS\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 5.4 | 5.4  | 4.7 | 4.7  | 3.9 | 3.9   | 3.1 | 3.1   | 2.3 | 2.3   | 0.0 |
| 70°   | 3.1 | 3.1  | 3.1 | 2.3  | 2.3 | 2.3   | 1.6 | 1.6   | 1.6 | 0.8   | 0.0 |
| 72.5° | 2.3 | 2.3  | 2.3 | 2.3  | 2.3 | 2.3   | 1.6 | 1.6   | 1.6 | 0.8   | 0.8 |
| 75°   | 2.3 | 2.3  | 2.3 | 1.6  | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 0.8 |
| 77.5° | 1.6 | 1.6  | 1.6 | 1.6  | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 |
| 80°   | 1.6 | 1.6  | 1.6 | 1.6  | 1.6 | 1.6   | 1.6 | 1.6   | 1.6 | 0.8   | 1.6 |
| 82.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 1.6 |
| 85°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.8 |
| 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°    | 69.0  | 69.0 | 69.0   | 69.0 | 69.0   | 69.0 |
| 2.5°  | 71.4  | 68.3 | 64.4   | 62.1 | 61.3   | 60.5 |
| 5°    | 68.3  | 62.1 | 57.4   | 54.3 | 53.5   | 53.5 |
| 7.5°  | 61.3  | 54.3 | 49.6   | 48.1 | 47.3   | 47.3 |
| 10°   | 53.5  | 47.3 | 43.4   | 41.9 | 42.7   | 42.7 |
| 12.5° | 45.0  | 39.6 | 38.0   | 38.0 | 38.8   | 39.6 |
| 15°   | 36.5  | 33.4 | 33.4   | 34.1 | 35.7   | 36.5 |
| 17.5° | 30.3  | 28.7 | 29.5   | 31.0 | 32.6   | 34.1 |
| 20°   | 24.8  | 24.8 | 26.4   | 28.7 | 31.0   | 32.6 |
| 22.5° | 20.9  | 21.7 | 24.0   | 26.4 | 29.5   | 31.0 |
| 25°   | 17.8  | 19.4 | 21.7   | 25.6 | 28.7   | 29.5 |
| 27.5° | 15.5  | 17.8 | 20.9   | 24.8 | 27.9   | 29.5 |
| 30°   | 13.2  | 16.3 | 20.2   | 24.0 | 27.9   | 29.5 |
| 31°   | 12.4  | 15.5 | 19.4   | 24.0 | 27.9   | 29.5 |
| 32°   | 11.6  | 15.5 | 19.4   | 24.0 | 27.9   | 29.5 |
| 33°   | 10.9  | 14.7 | 19.4   | 23.3 | 27.9   | 29.5 |
| 34°   | 10.1  | 14.7 | 19.4   | 24.0 | 27.9   | 29.5 |
| 35°   | 9.3   | 14.0 | 18.6   | 23.3 | 27.2   | 29.5 |
| 36°   | 8.5   | 14.0 | 18.6   | 23.3 | 27.9   | 29.5 |
| 37°   | 7.8   | 14.0 | 18.6   | 23.3 | 27.2   | 29.5 |
| 38°   | 7.8   | 13.2 | 17.8   | 23.3 | 27.2   | 29.5 |
| 39°   | 7.0   | 12.4 | 17.8   | 23.3 | 27.2   | 29.5 |
| 40°   | 6.2   | 12.4 | 17.1   | 22.5 | 27.2   | 29.5 |
| 41°   | 5.4   | 11.6 | 17.1   | 22.5 | 27.2   | 29.5 |
| 42°   | 4.7   | 11.6 | 17.1   | 22.5 | 27.2   | 29.5 |
| 43°   | 3.9   | 10.9 | 16.3   | 22.5 | 27.2   | 29.5 |
| 44°   | 3.9   | 10.9 | 16.3   | 22.5 | 27.2   | 29.5 |
| 45°   | 3.1   | 10.1 | 15.5   | 22.5 | 27.2   | 29.5 |
| 46°   | 3.1   | 10.1 | 15.5   | 21.7 | 27.2   | 29.5 |
| 47°   | 2.3   | 10.1 | 15.5   | 21.7 | 27.2   | 29.5 |
| 48°   | 2.3   | 9.3  | 15.5   | 21.7 | 27.2   | 29.5 |
| 49°   | 1.6   | 9.3  | 15.5   | 21.7 | 27.2   | 29.5 |
| 50°   | 1.6   | 9.3  | 14.7   | 21.7 | 27.2   | 29.5 |
| 51°   | 1.6   | 9.3  | 14.7   | 21.7 | 27.2   | 29.5 |
| 52°   | 1.6   | 8.5  | 14.7   | 21.7 | 27.2   | 29.5 |
| 53°   | 1.6   | 8.5  | 14.7   | 21.7 | 27.2   | 29.5 |
| 54°   | 1.6   | 8.5  | 14.0   | 21.7 | 27.2   | 29.5 |
| 55°   | 1.6   | 7.8  | 14.0   | 20.9 | 27.2   | 28.7 |
| 56°   | 1.6   | 7.8  | 14.0   | 20.9 | 27.2   | 28.7 |
| 57°   | 1.6   | 7.8  | 13.2   | 20.9 | 27.2   | 28.7 |
| 58°   | 1.6   | 7.0  | 13.2   | 20.2 | 26.4   | 28.7 |
| 59°   | 1.6   | 7.0  | 12.4   | 20.2 | 26.4   | 27.9 |
| 60°   | 1.6   | 6.2  | 12.4   | 19.4 | 25.6   | 27.9 |
| 62.5° | 1.6   | 5.4  | 10.9   | 18.6 | 24.8   | 26.4 |
| 65°   | 1.6   | 4.7  | 10.1   | 17.1 | 24.0   | 25.6 |



TEST NUMBER: P1343865

CATALOG NUMBER: P3A13R15W2N902765DE010 E3CA451MMS\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.6   | 4.7 | 9.3    | 16.3 | 22.5   | 24.8 |
| 70°   | 1.6   | 4.7 | 8.5    | 14.7 | 21.7   | 22.5 |
| 72.5° | 2.3   | 4.7 | 7.8    | 14.0 | 20.2   | 20.9 |
| 75°   | 3.1   | 4.7 | 7.0    | 12.4 | 18.6   | 19.4 |
| 77.5° | 3.1   | 4.7 | 6.2    | 10.9 | 16.3   | 17.1 |
| 80°   | 3.1   | 3.9 | 5.4    | 8.5  | 13.2   | 14.0 |
| 82.5° | 3.1   | 3.9 | 3.9    | 7.0  | 10.1   | 10.9 |
| 85°   | 2.3   | 3.1 | 3.1    | 3.9  | 7.0    | 7.8  |
| 87.5° | 2.3   | 3.1 | 1.6    | 2.3  | 3.1    | 3.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)