

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: P1344326

Luminaire Tested: P3A13R20W2N902765DE010 E3A451H\_6500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R20W2N902765DE010 E3A451H\_6500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 6500K CCT AND, 90CRI ,  
E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

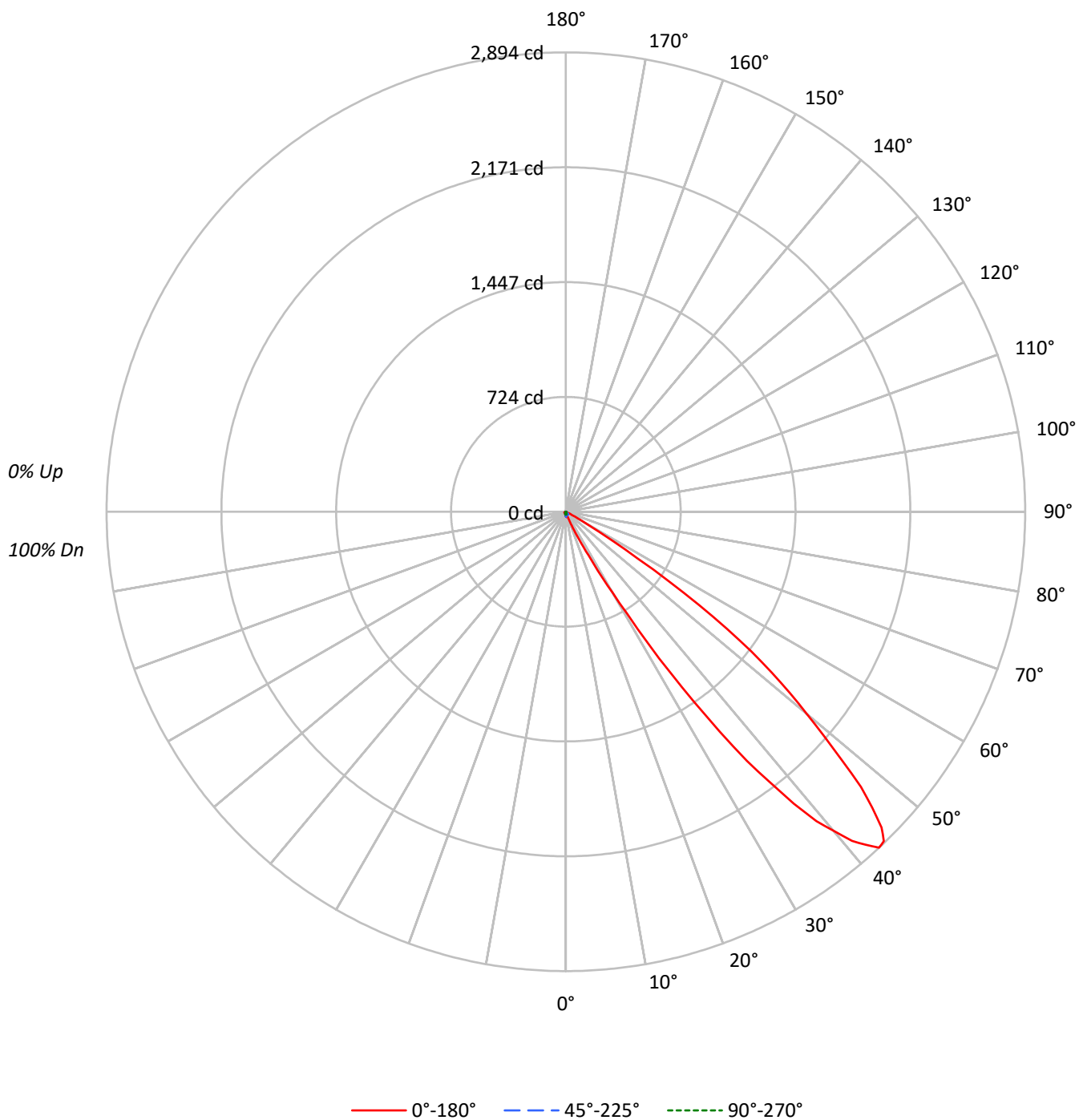
Lumens per Lamp: N/A  
Luminaire Lumens: 402.0 lumens  
Efficiency: N/A  
Efficacy: 32.7 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1344326

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### Luminous Intensity Polar Plot



TEST NUMBER: P1344326

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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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  |  | 108 | 104 | 101 | 97  |  | 100 | 97  | 94  |  | 96  | 94  | 92  |  | 92  | 91  | 89  |
| 2   | 101 | 93  | 87  | 82  |  | 98  | 91  | 86  | 81  |  | 88  | 83  | 79  |  | 85  | 81  | 77  |  | 82  | 78  | 75  |
| 3   | 92  | 81  | 74  | 67  |  | 89  | 80  | 73  | 67  |  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  |  | 81  | 70  | 62  | 55  |  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  | 58  | 53  |
| 5   | 75  | 62  | 53  | 46  |  | 73  | 61  | 53  | 46  |  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  | 49  | 45  |
| 6   | 68  | 55  | 45  | 39  |  | 66  | 54  | 45  | 38  |  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  |  | 60  | 47  | 38  | 32  |  | 46  | 38  | 32  |  | 44  | 37  | 32  |  | 43  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  |  | 55  | 42  | 33  | 27  |  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  | 31  | 27  |
| 9   | 52  | 38  | 29  | 23  |  | 51  | 37  | 29  | 23  |  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  | 27  | 23  |
| 10  | 48  | 34  | 25  | 20  |  | 47  | 33  | 25  | 20  |  | 32  | 25  | 19  |  | 31  | 24  | 19  |  | 30  | 24  | 19  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 6140   | 6140 | 6140 | 6140 | 6140 |
| 5°  | 7154   | 6648 | 5745 | 4997 | 4821 |
| 10° | 7058   | 6056 | 4542 | 3874 | 3785 |
| 15° | 6175   | 4631 | 3337 | 3087 | 3269 |
| 20° | 9171   | 3874 | 2474 | 2637 | 2917 |
| 25° | 39486  | 4016 | 1911 | 2371 | 2831 |
| 30° | 149314 | 4887 | 1621 | 2304 | 2785 |
| 35° | 452668 | 5862 | 1526 | 2329 | 2945 |
| 40° | 750606 | 5840 | 1288 | 2490 | 3149 |
| 45° | 872463 | 3969 | 1178 | 2574 | 3411 |
| 50° | 677266 | 2183 | 1160 | 2695 | 3855 |
| 55° | 391976 | 1453 | 1147 | 3020 | 4205 |
| 60° | 66267  | 351  | 1009 | 3158 | 4649 |
| 65° | 5085   | 0    | 1193 | 3528 | 5292 |
| 70° | 705    | 0    | 1475 | 3847 | 6027 |
| 75° | 678    | 339  | 1610 | 4490 | 7032 |
| 80° | 505    | 505  | 2399 | 4799 | 8082 |
| 85° | 1006   | 1006 | 3774 | 4780 | 8554 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 872463 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.4    | 0.6       |
| 10°-20°   | 5.0    | 1.3       |
| 20°-30°   | 16.1   | 4.0       |
| 30°-40°   | 102.5  | 25.5      |
| 40°-50°   | 187.6  | 46.7      |
| 50°-60°   | 77.1   | 19.2      |
| 60°-70°   | 6.5    | 1.6       |
| 70°-80°   | 3.2    | 0.8       |
| 80°-90°   | 1.5    | 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°    | 23.5   | 5.8       |
| 0°-40°    | 126.0  | 31.3      |
| 0°-60°    | 390.7  | 97.2      |
| 0°-90°    | 402.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 402.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 28   | 28  | 28  | 28   | 28   |      |
| 5°  | 32   | 30  | 26  | 23   | 22   | 3    |
| 15° | 27   | 20  | 15  | 14   | 14   | 9    |
| 25° | 163  | 17  | 8   | 10   | 12   | 107  |
| 35° | 1691 | 22  | 6   | 9    | 11   | 1070 |
| 45° | 2813 | 13  | 4   | 8    | 11   | 2020 |
| 55° | 1025 | 4   | 3   | 8    | 11   | 896  |
| 65° | 10   | 0   | 2   | 7    | 10   | 32   |
| 75° | 1    | 0   | 2   | 5    | 8    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 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°    | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0  | 28.0  | 28.0 |
| 2.5°  | 30.6   | 30.6   | 30.6   | 30.2   | 30.2   | 30.6   | 30.2   | 30.2   | 30.2  | 30.2  | 29.8 |
| 5°    | 32.5   | 32.5   | 32.5   | 32.5   | 32.5   | 32.5   | 32.5   | 32.1   | 32.1  | 31.7  | 30.2 |
| 7.5°  | 33.2   | 33.2   | 33.2   | 33.2   | 32.9   | 32.9   | 32.9   | 32.9   | 32.5  | 32.1  | 29.5 |
| 10°   | 31.7   | 31.7   | 31.7   | 31.4   | 31.4   | 31.4   | 31.0   | 31.0   | 30.6  | 30.2  | 27.2 |
| 12.5° | 28.7   | 28.7   | 28.7   | 28.7   | 28.3   | 28.3   | 28.0   | 28.0   | 27.6  | 27.2  | 23.8 |
| 15°   | 27.2   | 27.2   | 27.2   | 26.8   | 26.8   | 26.4   | 26.1   | 25.7   | 25.3  | 24.6  | 20.4 |
| 17.5° | 29.5   | 29.5   | 29.1   | 29.1   | 28.3   | 27.6   | 27.2   | 26.1   | 25.3  | 24.2  | 18.1 |
| 20°   | 39.3   | 39.7   | 38.2   | 37.0   | 36.3   | 34.0   | 32.9   | 31.0   | 29.5  | 27.6  | 16.6 |
| 22.5° | 79.3   | 77.8   | 75.2   | 71.0   | 66.1   | 62.0   | 54.4   | 48.4   | 44.2  | 38.5  | 16.2 |
| 25°   | 163.2  | 161.7  | 154.5  | 148.5  | 133.4  | 121.6  | 105.4  | 92.2   | 78.6  | 65.4  | 16.6 |
| 27.5° | 310.2  | 300.0  | 298.1  | 270.5  | 249.3  | 219.1  | 187.8  | 161.3  | 137.1 | 110.3 | 17.8 |
| 30°   | 589.7  | 578.0  | 536.8  | 495.3  | 438.2  | 373.6  | 312.1  | 254.6  | 206.6 | 163.2 | 19.3 |
| 31°   | 748.4  | 759.7  | 711.4  | 627.9  | 543.6  | 460.9  | 376.7  | 303.7  | 241.8 | 187.8 | 20.0 |
| 32°   | 983.8  | 934.3  | 883.3  | 797.5  | 675.1  | 569.3  | 463.5  | 358.5  | 276.9 | 214.2 | 20.8 |
| 33°   | 1206.3 | 1177.2 | 1099.4 | 992.4  | 845.5  | 697.0  | 559.9  | 423.1  | 320.0 | 246.3 | 21.2 |
| 34°   | 1443.5 | 1411.4 | 1348.3 | 1194.9 | 1033.6 | 839.1  | 656.2  | 497.5  | 371.4 | 277.7 | 21.5 |
| 35°   | 1691.0 | 1677.4 | 1555.7 | 1422.7 | 1224.4 | 989.8  | 772.2  | 579.1  | 421.6 | 306.4 | 21.9 |
| 36°   | 1939.9 | 1896.1 | 1800.9 | 1606.7 | 1399.7 | 1129.2 | 893.8  | 655.1  | 472.6 | 340.4 | 21.9 |
| 37°   | 2127.3 | 2117.5 | 1991.3 | 1802.0 | 1558.7 | 1278.0 | 998.9  | 739.3  | 524.0 | 369.5 | 21.9 |
| 38°   | 2334.0 | 2295.0 | 2167.0 | 1974.3 | 1708.3 | 1414.4 | 1108.8 | 812.6  | 572.7 | 395.9 | 21.5 |
| 39°   | 2508.1 | 2450.3 | 2321.1 | 2130.7 | 1839.1 | 1517.9 | 1196.1 | 883.6  | 615.8 | 417.8 | 21.2 |
| 40°   | 2622.2 | 2582.2 | 2447.3 | 2233.1 | 1957.7 | 1615.8 | 1284.5 | 942.2  | 647.9 | 434.5 | 20.4 |
| 41°   | 2748.0 | 2681.5 | 2548.2 | 2332.8 | 2043.8 | 1701.9 | 1340.0 | 980.7  | 672.8 | 445.4 | 19.6 |
| 42°   | 2823.2 | 2768.8 | 2610.5 | 2399.7 | 2105.4 | 1751.0 | 1385.3 | 1010.2 | 687.9 | 451.1 | 18.1 |
| 43°   | 2893.5 | 2819.4 | 2665.3 | 2438.6 | 2146.2 | 1785.8 | 1406.1 | 1023.8 | 691.3 | 451.1 | 16.2 |
| 44°   | 2884.0 | 2813.7 | 2653.9 | 2443.9 | 2155.3 | 1796.0 | 1414.8 | 1024.2 | 686.1 | 445.4 | 14.4 |
| 45°   | 2813.4 | 2743.5 | 2599.5 | 2397.8 | 2122.8 | 1776.0 | 1397.4 | 1009.1 | 671.3 | 435.6 | 12.8 |
| 46°   | 2683.8 | 2614.3 | 2504.0 | 2320.7 | 2062.3 | 1730.6 | 1357.0 | 976.2  | 646.8 | 419.7 | 11.3 |
| 47°   | 2542.9 | 2475.3 | 2362.3 | 2196.4 | 1959.2 | 1649.8 | 1298.4 | 930.1  | 612.4 | 396.7 | 10.2 |
| 48°   | 2338.5 | 2296.2 | 2182.8 | 2041.2 | 1816.0 | 1523.2 | 1195.7 | 854.9  | 566.3 | 366.8 | 8.7  |
| 49°   | 2157.9 | 2113.3 | 2014.0 | 1861.7 | 1629.4 | 1375.9 | 1072.9 | 763.5  | 506.2 | 333.6 | 7.6  |
| 50°   | 1985.3 | 1946.4 | 1854.5 | 1682.7 | 1460.9 | 1198.0 | 907.1  | 648.3  | 430.7 | 292.4 | 6.4  |
| 51°   | 1816.4 | 1787.3 | 1693.6 | 1535.7 | 1310.5 | 1061.2 | 785.8  | 539.9  | 355.9 | 242.5 | 6.0  |
| 52°   | 1646.8 | 1643.4 | 1541.7 | 1381.9 | 1164.3 | 924.8  | 667.9  | 455.6  | 301.9 | 203.6 | 5.7  |
| 53°   | 1464.3 | 1442.4 | 1353.6 | 1210.0 | 1001.1 | 782.8  | 566.3  | 384.2  | 259.9 | 173.4 | 4.9  |
| 54°   | 1256.5 | 1232.0 | 1136.8 | 1007.2 | 817.9  | 641.1  | 456.4  | 310.5  | 216.5 | 146.6 | 4.5  |
| 55°   | 1025.3 | 983.4  | 914.2  | 781.3  | 638.8  | 489.2  | 352.5  | 245.9  | 173.0 | 122.0 | 3.8  |
| 56°   | 777.9  | 735.9  | 697.0  | 599.2  | 468.8  | 364.9  | 262.6  | 188.5  | 135.2 | 96.3  | 3.4  |
| 57°   | 541.0  | 538.7  | 474.9  | 399.7  | 313.6  | 248.6  | 179.8  | 133.0  | 95.6  | 74.8  | 2.6  |
| 58°   | 351.0  | 339.3  | 298.5  | 255.0  | 205.1  | 155.3  | 115.6  | 90.3   | 65.0  | 51.0  | 2.3  |
| 59°   | 245.9  | 222.5  | 200.6  | 170.0  | 129.2  | 97.8   | 74.4   | 57.8   | 45.0  | 35.5  | 1.5  |
| 60°   | 151.1  | 146.2  | 131.5  | 103.5  | 83.9   | 69.1   | 55.5   | 42.7   | 32.9  | 25.3  | 0.8  |
| 62.5° | 43.1   | 43.8   | 39.7   | 35.1   | 30.2   | 26.1   | 23.4   | 20.0   | 16.6  | 13.2  | 0.0  |
| 65°   | 9.8    | 9.4    | 10.2   | 9.4    | 8.7    | 8.7    | 7.6    | 6.8    | 6.0   | 5.7   | 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° | 3.0 | 3.0  | 2.6 | 2.6  | 2.6 | 2.3   | 2.3 | 1.9   | 1.9 | 1.5   | 0.0 |
| 70°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 0.8   | 0.8 | 0.8   | 0.4 | 0.4   | 0.0 |
| 72.5° | 1.1 | 1.1  | 1.1 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.4 | 0.4   | 0.4 |
| 75°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 | 0.4   | 0.4 |
| 77.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.4   | 0.8 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 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°    | 28.0  | 28.0 | 28.0   | 28.0 | 28.0   | 28.0 |
| 2.5°  | 29.1  | 27.6 | 26.4   | 25.3 | 24.9   | 24.9 |
| 5°    | 28.3  | 26.1 | 23.8   | 22.7 | 21.9   | 21.9 |
| 7.5°  | 26.1  | 23.4 | 21.2   | 20.0 | 19.6   | 19.6 |
| 10°   | 23.4  | 20.4 | 18.1   | 17.4 | 17.4   | 17.0 |
| 12.5° | 20.4  | 17.4 | 15.9   | 15.5 | 15.5   | 15.5 |
| 15°   | 17.0  | 14.7 | 13.6   | 13.6 | 14.0   | 14.4 |
| 17.5° | 14.4  | 12.1 | 11.7   | 12.5 | 13.2   | 13.2 |
| 20°   | 12.1  | 10.6 | 10.6   | 11.3 | 12.1   | 12.5 |
| 22.5° | 10.2  | 9.1  | 9.4    | 10.6 | 11.7   | 12.1 |
| 25°   | 9.1   | 7.9  | 8.7    | 9.8  | 11.0   | 11.7 |
| 27.5° | 7.6   | 7.2  | 7.9    | 9.4  | 11.0   | 11.3 |
| 30°   | 6.4   | 6.4  | 7.6    | 9.1  | 10.6   | 11.0 |
| 31°   | 6.0   | 6.0  | 7.6    | 9.1  | 10.6   | 11.0 |
| 32°   | 5.7   | 6.0  | 7.2    | 9.1  | 10.6   | 11.0 |
| 33°   | 5.3   | 5.7  | 7.2    | 8.7  | 10.6   | 11.0 |
| 34°   | 4.9   | 5.7  | 7.2    | 8.7  | 10.6   | 11.0 |
| 35°   | 4.5   | 5.7  | 7.2    | 8.7  | 10.6   | 11.0 |
| 36°   | 4.2   | 5.3  | 6.8    | 8.7  | 10.6   | 11.0 |
| 37°   | 3.8   | 5.3  | 6.8    | 8.7  | 10.6   | 11.0 |
| 38°   | 3.4   | 4.9  | 6.8    | 8.7  | 10.6   | 11.0 |
| 39°   | 3.4   | 4.9  | 6.4    | 8.7  | 10.2   | 11.0 |
| 40°   | 3.0   | 4.5  | 6.4    | 8.7  | 10.2   | 11.0 |
| 41°   | 2.6   | 4.5  | 6.4    | 8.3  | 10.2   | 11.0 |
| 42°   | 2.3   | 4.2  | 6.0    | 8.3  | 10.2   | 11.0 |
| 43°   | 1.9   | 4.2  | 6.0    | 8.3  | 10.2   | 11.0 |
| 44°   | 1.9   | 3.8  | 6.0    | 8.3  | 10.2   | 11.0 |
| 45°   | 1.5   | 3.8  | 6.0    | 8.3  | 10.2   | 11.0 |
| 46°   | 1.1   | 3.8  | 6.0    | 8.3  | 10.2   | 11.0 |
| 47°   | 1.1   | 3.4  | 5.7    | 8.3  | 10.2   | 11.0 |
| 48°   | 0.8   | 3.4  | 5.7    | 8.3  | 10.2   | 11.0 |
| 49°   | 0.8   | 3.4  | 5.7    | 8.3  | 10.2   | 11.3 |
| 50°   | 0.8   | 3.4  | 5.7    | 7.9  | 10.2   | 11.3 |
| 51°   | 0.4   | 3.4  | 5.7    | 7.9  | 10.2   | 11.3 |
| 52°   | 0.4   | 3.4  | 5.3    | 7.9  | 10.6   | 11.3 |
| 53°   | 0.4   | 3.0  | 5.3    | 7.9  | 10.6   | 11.3 |
| 54°   | 0.4   | 3.0  | 5.3    | 7.9  | 10.6   | 11.0 |
| 55°   | 0.4   | 3.0  | 5.3    | 7.9  | 10.2   | 11.0 |
| 56°   | 0.4   | 2.6  | 5.3    | 7.9  | 10.2   | 11.0 |
| 57°   | 0.4   | 2.6  | 4.9    | 7.6  | 10.2   | 10.6 |
| 58°   | 0.4   | 2.6  | 4.9    | 7.6  | 10.2   | 10.6 |
| 59°   | 0.4   | 2.6  | 4.9    | 7.6  | 9.8    | 10.6 |
| 60°   | 0.8   | 2.3  | 4.5    | 7.2  | 9.8    | 10.6 |
| 62.5° | 0.8   | 2.3  | 4.5    | 7.2  | 9.4    | 10.2 |
| 65°   | 0.8   | 2.3  | 4.2    | 6.8  | 9.4    | 10.2 |



TEST NUMBER: P1344326

CATALOG NUMBER: P3A13R20W2N902765DE010 E3A451H\_6500K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 1.9 | 3.8    | 6.4  | 9.1    | 9.8  |
| 70°   | 0.8   | 2.3 | 3.8    | 6.0  | 8.7    | 9.4  |
| 72.5° | 1.1   | 1.9 | 3.4    | 5.7  | 8.3    | 9.1  |
| 75°   | 1.1   | 1.9 | 3.4    | 5.3  | 7.9    | 8.3  |
| 77.5° | 1.5   | 1.9 | 3.0    | 4.5  | 7.2    | 7.6  |
| 80°   | 1.5   | 1.9 | 2.6    | 3.8  | 6.0    | 6.4  |
| 82.5° | 1.5   | 1.9 | 1.9    | 3.0  | 4.5    | 4.9  |
| 85°   | 1.1   | 1.5 | 1.5    | 1.9  | 3.0    | 3.4  |
| 87.5° | 1.1   | 1.5 | 1.1    | 0.8  | 1.5    | 1.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)