

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: P1343816

Luminaire Tested: P3A13R15W2N902765DE010 E3A451GPH\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343816  
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 E3A451GPH\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,  
E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

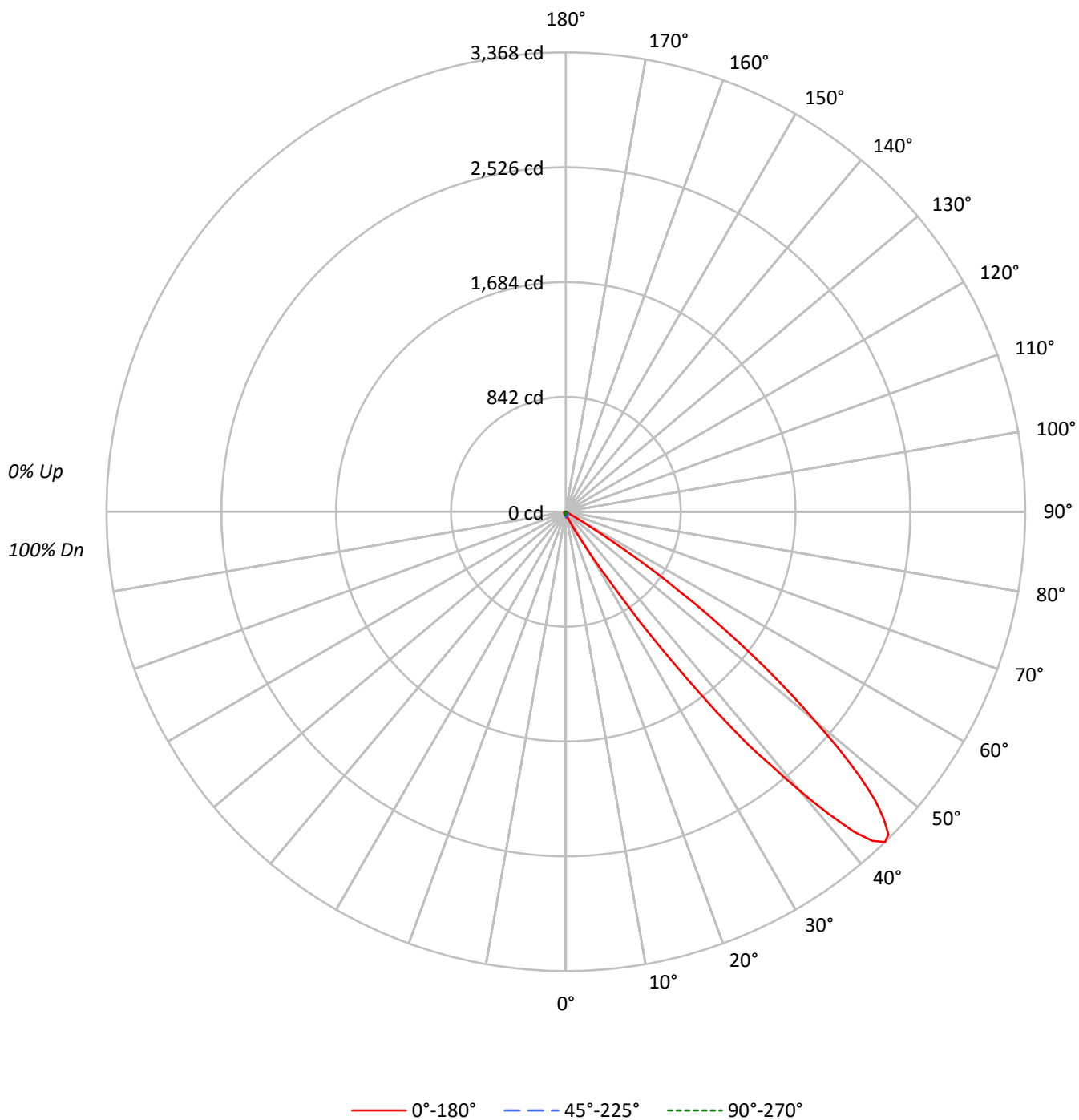
Lumens per Lamp: N/A  
Luminaire Lumens: 375.9 lumens  
Efficiency: N/A  
Efficacy: 30.6 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1343816

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### Luminous Intensity Polar Plot



TEST NUMBER: P1343816

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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   | 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°  | 7324    | 7324 | 7324 | 7324 | 7324 |
| 5°  | 9069    | 8078 | 6604 | 5767 | 5701 |
| 10° | 8929    | 6925 | 5099 | 4498 | 4587 |
| 15° | 7401    | 4926 | 3655 | 3746 | 3995 |
| 20° | 12858   | 3944 | 2800 | 3244 | 3664 |
| 25° | 28671   | 4718 | 2274 | 3000 | 3436 |
| 30° | 85709   | 5798 | 2000 | 2937 | 3595 |
| 35° | 329984  | 6532 | 1794 | 2998 | 3801 |
| 40° | 765921  | 5696 | 1718 | 3120 | 4065 |
| 45° | 1037410 | 4311 | 1520 | 3380 | 4404 |
| 50° | 813415  | 2559 | 1535 | 3582 | 4844 |
| 55° | 390409  | 1147 | 1415 | 3861 | 5314 |
| 60° | 35699   | 175  | 1316 | 4122 | 5921 |
| 65° | 3891    | 0    | 1141 | 4255 | 6434 |
| 70° | 962     | 0    | 1410 | 4552 | 6988 |
| 75° | 932     | 339  | 1864 | 5083 | 7964 |
| 80° | 884     | 884  | 2399 | 5177 | 8461 |
| 85° | 1006    | 1006 | 3774 | 4780 | 9309 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1037410 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.8    | 0.8       |
| 10°-20°   | 5.9    | 1.6       |
| 20°-30°   | 14.2   | 3.8       |
| 30°-40°   | 77.8   | 20.7      |
| 40°-50°   | 188.3  | 50.1      |
| 50°-60°   | 75.1   | 20.0      |
| 60°-70°   | 6.5    | 1.7       |
| 70°-80°   | 3.6    | 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°    | 23.0   | 6.1       |
| 0°-40°    | 100.7  | 26.8      |
| 0°-60°    | 364.2  | 96.9      |
| 0°-90°    | 375.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 375.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 33   | 33  | 33  | 33   | 33   |      |
| 5°  | 41   | 37  | 30  | 26   | 26   | 4    |
| 15° | 33   | 22  | 16  | 16   | 18   | 11   |
| 25° | 118  | 20  | 9   | 12   | 14   | 71   |
| 35° | 1233 | 24  | 7   | 11   | 14   | 871  |
| 45° | 3345 | 14  | 5   | 11   | 14   | 2360 |
| 55° | 1021 | 3   | 4   | 10   | 14   | 951  |
| 65° | 8    | 0   | 2   | 8    | 12   | 19   |
| 75° | 1    | 0   | 2   | 6    | 9    | 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°    | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4  | 33.4  | 33.4  | 33.4 |
| 2.5°  | 37.5   | 37.5   | 37.9   | 37.5   | 37.5   | 37.5   | 37.5   | 37.1  | 37.1  | 37.1  | 36.0 |
| 5°    | 41.2   | 41.2   | 41.2   | 41.2   | 40.9   | 40.9   | 40.9   | 40.5  | 40.5  | 40.1  | 36.7 |
| 7.5°  | 42.7   | 42.7   | 42.4   | 42.4   | 42.0   | 42.0   | 41.6   | 41.2  | 40.9  | 40.5  | 35.2 |
| 10°   | 40.1   | 40.1   | 40.1   | 39.7   | 39.7   | 39.4   | 39.0   | 38.6  | 38.2  | 37.5  | 31.1 |
| 12.5° | 35.6   | 35.6   | 36.0   | 35.6   | 35.2   | 34.9   | 34.1   | 33.7  | 33.4  | 32.6  | 25.9 |
| 15°   | 32.6   | 32.6   | 32.6   | 32.2   | 31.9   | 31.1   | 30.7   | 30.0  | 29.6  | 28.5  | 21.7 |
| 17.5° | 41.6   | 41.6   | 41.2   | 40.5   | 39.0   | 37.9   | 36.0   | 34.5  | 32.6  | 30.4  | 18.7 |
| 20°   | 55.1   | 55.1   | 54.4   | 53.6   | 51.7   | 49.9   | 46.9   | 44.2  | 41.2  | 38.6  | 16.9 |
| 22.5° | 79.9   | 81.0   | 78.7   | 76.1   | 73.5   | 69.0   | 64.9   | 60.7  | 55.5  | 51.0  | 17.2 |
| 25°   | 118.5  | 119.6  | 118.5  | 112.5  | 107.6  | 101.6  | 93.7   | 85.5  | 76.5  | 68.2  | 19.5 |
| 27.5° | 192.0  | 192.7  | 190.8  | 176.2  | 168.3  | 152.6  | 138.7  | 125.2 | 110.2 | 95.2  | 21.4 |
| 30°   | 338.5  | 338.9  | 326.9  | 297.7  | 271.8  | 237.3  | 208.1  | 180.0 | 156.3 | 132.3 | 22.9 |
| 31°   | 445.8  | 435.3  | 409.8  | 374.5  | 333.3  | 286.8  | 246.7  | 210.3 | 175.1 | 149.2 | 23.2 |
| 32°   | 566.1  | 564.6  | 522.2  | 461.1  | 406.0  | 347.9  | 287.6  | 241.1 | 200.6 | 165.3 | 23.6 |
| 33°   | 725.4  | 726.2  | 659.5  | 587.5  | 497.1  | 419.1  | 340.0  | 276.3 | 227.6 | 184.5 | 24.4 |
| 34°   | 974.4  | 915.9  | 837.5  | 740.1  | 617.1  | 499.8  | 397.0  | 317.2 | 251.9 | 202.8 | 24.4 |
| 35°   | 1232.7 | 1173.8 | 1087.6 | 939.9  | 771.2  | 607.0  | 464.9  | 361.0 | 281.2 | 222.7 | 24.4 |
| 36°   | 1522.1 | 1472.3 | 1341.8 | 1153.2 | 938.0  | 708.2  | 536.9  | 411.6 | 310.0 | 240.7 | 24.0 |
| 37°   | 1834.8 | 1761.7 | 1617.0 | 1411.2 | 1123.2 | 850.7  | 624.6  | 461.9 | 338.9 | 260.2 | 23.2 |
| 38°   | 2152.3 | 2086.4 | 1903.8 | 1654.5 | 1344.4 | 1001.0 | 712.3  | 510.2 | 365.5 | 274.8 | 22.1 |
| 39°   | 2393.0 | 2357.0 | 2176.0 | 1897.4 | 1521.0 | 1143.5 | 802.7  | 562.0 | 393.7 | 289.4 | 21.0 |
| 40°   | 2675.7 | 2617.6 | 2445.9 | 2101.4 | 1729.8 | 1288.6 | 891.2  | 607.7 | 416.9 | 301.1 | 19.9 |
| 41°   | 2933.7 | 2860.2 | 2643.5 | 2310.6 | 1897.0 | 1419.0 | 975.1  | 655.0 | 435.6 | 307.8 | 19.1 |
| 42°   | 3154.8 | 3069.4 | 2842.9 | 2489.8 | 2036.9 | 1523.2 | 1042.2 | 688.7 | 453.3 | 313.4 | 18.0 |
| 43°   | 3298.1 | 3224.2 | 3001.5 | 2624.4 | 2156.5 | 1618.9 | 1104.9 | 723.9 | 464.1 | 317.2 | 16.5 |
| 44°   | 3367.8 | 3293.2 | 3077.6 | 2708.7 | 2229.9 | 1676.2 | 1145.3 | 748.3 | 476.1 | 322.0 | 15.4 |
| 45°   | 3345.3 | 3269.6 | 3061.1 | 2710.2 | 2252.8 | 1696.8 | 1162.6 | 759.2 | 482.5 | 326.5 | 13.9 |
| 46°   | 3242.2 | 3189.0 | 2979.0 | 2639.7 | 2209.3 | 1674.7 | 1152.8 | 750.9 | 480.3 | 326.5 | 12.4 |
| 47°   | 3097.5 | 3036.7 | 2836.9 | 2518.6 | 2104.0 | 1617.7 | 1113.5 | 725.8 | 466.4 | 319.0 | 10.9 |
| 48°   | 2900.3 | 2848.5 | 2638.6 | 2326.3 | 1942.4 | 1493.6 | 1024.6 | 685.0 | 444.6 | 304.4 | 9.4  |
| 49°   | 2652.8 | 2580.9 | 2385.5 | 2080.4 | 1731.7 | 1317.4 | 908.0  | 616.0 | 409.8 | 283.8 | 8.2  |
| 50°   | 2384.4 | 2295.6 | 2144.8 | 1834.0 | 1513.9 | 1129.6 | 754.7  | 520.7 | 360.7 | 256.8 | 7.5  |
| 51°   | 2121.6 | 2031.2 | 1887.7 | 1623.3 | 1281.4 | 937.3  | 608.8  | 415.8 | 296.9 | 219.7 | 6.4  |
| 52°   | 1849.0 | 1773.3 | 1612.5 | 1404.8 | 1097.0 | 759.6  | 507.2  | 351.7 | 246.7 | 184.5 | 5.2  |
| 53°   | 1577.6 | 1525.9 | 1372.9 | 1162.6 | 881.4  | 620.5  | 414.3  | 301.1 | 215.2 | 157.8 | 4.1  |
| 54°   | 1305.8 | 1249.2 | 1133.0 | 945.5  | 710.4  | 489.6  | 351.3  | 251.9 | 186.7 | 137.6 | 3.7  |
| 55°   | 1021.2 | 992.0  | 884.8  | 720.9  | 538.4  | 390.7  | 284.9  | 216.7 | 156.3 | 115.1 | 3.0  |
| 56°   | 786.6  | 753.6  | 655.7  | 523.0  | 400.0  | 305.9  | 230.6  | 177.0 | 132.3 | 96.4  | 2.2  |
| 57°   | 515.1  | 481.4  | 416.5  | 365.2  | 291.3  | 223.1  | 176.2  | 139.5 | 107.6 | 79.9  | 1.9  |
| 58°   | 304.4  | 273.7  | 263.6  | 224.9  | 194.2  | 151.5  | 130.1  | 103.8 | 79.5  | 63.0  | 1.1  |
| 59°   | 139.8  | 142.1  | 126.3  | 118.5  | 107.6  | 96.4   | 79.1   | 69.4  | 54.4  | 45.4  | 0.7  |
| 60°   | 81.4   | 76.9   | 75.0   | 67.1   | 59.6   | 52.9   | 47.6   | 42.0  | 34.1  | 29.2  | 0.4  |
| 62.5° | 27.7   | 26.6   | 27.4   | 24.7   | 23.2   | 22.5   | 20.6   | 17.6  | 14.6  | 12.0  | 0.0  |
| 65°   | 7.5    | 7.5    | 7.1    | 6.7    | 6.4    | 6.0    | 5.6    | 4.9   | 4.5   | 3.7   | 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° | 2.6 | 2.6  | 2.2 | 2.2  | 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   | 0.7 | 0.7   | 0.7 | 0.4   | 0.0 |
| 72.5° | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 0.7 | 0.7   | 0.7 | 0.4   | 0.4 |
| 75°   | 1.1 | 1.1  | 1.1 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7   | 0.4 |
| 77.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 |
| 80°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.4   | 0.7 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.7 |
| 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°    | 33.4  | 33.4 | 33.4   | 33.4 | 33.4   | 33.4 |
| 2.5°  | 34.5  | 33.0 | 31.1   | 30.0 | 29.6   | 29.2 |
| 5°    | 33.0  | 30.0 | 27.7   | 26.2 | 25.9   | 25.9 |
| 7.5°  | 29.6  | 26.2 | 24.0   | 23.2 | 22.9   | 22.9 |
| 10°   | 25.9  | 22.9 | 21.0   | 20.2 | 20.6   | 20.6 |
| 12.5° | 21.7  | 19.1 | 18.4   | 18.4 | 18.7   | 19.1 |
| 15°   | 17.6  | 16.1 | 16.1   | 16.5 | 17.2   | 17.6 |
| 17.5° | 14.6  | 13.9 | 14.2   | 15.0 | 15.7   | 16.5 |
| 20°   | 12.0  | 12.0 | 12.7   | 13.9 | 15.0   | 15.7 |
| 22.5° | 10.1  | 10.5 | 11.6   | 12.7 | 14.2   | 15.0 |
| 25°   | 8.6   | 9.4  | 10.5   | 12.4 | 13.9   | 14.2 |
| 27.5° | 7.5   | 8.6  | 10.1   | 12.0 | 13.5   | 14.2 |
| 30°   | 6.4   | 7.9  | 9.7    | 11.6 | 13.5   | 14.2 |
| 31°   | 6.0   | 7.5  | 9.4    | 11.6 | 13.5   | 14.2 |
| 32°   | 5.6   | 7.5  | 9.4    | 11.6 | 13.5   | 14.2 |
| 33°   | 5.2   | 7.1  | 9.4    | 11.2 | 13.5   | 14.2 |
| 34°   | 4.9   | 7.1  | 9.4    | 11.6 | 13.5   | 14.2 |
| 35°   | 4.5   | 6.7  | 9.0    | 11.2 | 13.1   | 14.2 |
| 36°   | 4.1   | 6.7  | 9.0    | 11.2 | 13.5   | 14.2 |
| 37°   | 3.7   | 6.7  | 9.0    | 11.2 | 13.1   | 14.2 |
| 38°   | 3.7   | 6.4  | 8.6    | 11.2 | 13.1   | 14.2 |
| 39°   | 3.4   | 6.0  | 8.6    | 11.2 | 13.1   | 14.2 |
| 40°   | 3.0   | 6.0  | 8.2    | 10.9 | 13.1   | 14.2 |
| 41°   | 2.6   | 5.6  | 8.2    | 10.9 | 13.1   | 14.2 |
| 42°   | 2.2   | 5.6  | 8.2    | 10.9 | 13.1   | 14.2 |
| 43°   | 1.9   | 5.2  | 7.9    | 10.9 | 13.1   | 14.2 |
| 44°   | 1.9   | 5.2  | 7.9    | 10.9 | 13.1   | 14.2 |
| 45°   | 1.5   | 4.9  | 7.5    | 10.9 | 13.1   | 14.2 |
| 46°   | 1.5   | 4.9  | 7.5    | 10.5 | 13.1   | 14.2 |
| 47°   | 1.1   | 4.9  | 7.5    | 10.5 | 13.1   | 14.2 |
| 48°   | 1.1   | 4.5  | 7.5    | 10.5 | 13.1   | 14.2 |
| 49°   | 0.7   | 4.5  | 7.5    | 10.5 | 13.1   | 14.2 |
| 50°   | 0.7   | 4.5  | 7.1    | 10.5 | 13.1   | 14.2 |
| 51°   | 0.7   | 4.5  | 7.1    | 10.5 | 13.1   | 14.2 |
| 52°   | 0.7   | 4.1  | 7.1    | 10.5 | 13.1   | 14.2 |
| 53°   | 0.7   | 4.1  | 7.1    | 10.5 | 13.1   | 14.2 |
| 54°   | 0.7   | 4.1  | 6.7    | 10.5 | 13.1   | 14.2 |
| 55°   | 0.7   | 3.7  | 6.7    | 10.1 | 13.1   | 13.9 |
| 56°   | 0.7   | 3.7  | 6.7    | 10.1 | 13.1   | 13.9 |
| 57°   | 0.7   | 3.7  | 6.4    | 10.1 | 13.1   | 13.9 |
| 58°   | 0.7   | 3.4  | 6.4    | 9.7  | 12.7   | 13.9 |
| 59°   | 0.7   | 3.4  | 6.0    | 9.7  | 12.7   | 13.5 |
| 60°   | 0.7   | 3.0  | 6.0    | 9.4  | 12.4   | 13.5 |
| 62.5° | 0.7   | 2.6  | 5.2    | 9.0  | 12.0   | 12.7 |
| 65°   | 0.7   | 2.2  | 4.9    | 8.2  | 11.6   | 12.4 |





TEST NUMBER: P1343816

CATALOG NUMBER: P3A13R15W2N902765DE010 E3A451GPH\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.7   | 2.2 | 4.5    | 7.9  | 10.9   | 12.0 |
| 70°   | 0.7   | 2.2 | 4.1    | 7.1  | 10.5   | 10.9 |
| 72.5° | 1.1   | 2.2 | 3.7    | 6.7  | 9.7    | 10.1 |
| 75°   | 1.5   | 2.2 | 3.4    | 6.0  | 9.0    | 9.4  |
| 77.5° | 1.5   | 2.2 | 3.0    | 5.2  | 7.9    | 8.2  |
| 80°   | 1.5   | 1.9 | 2.6    | 4.1  | 6.4    | 6.7  |
| 82.5° | 1.5   | 1.9 | 1.9    | 3.4  | 4.9    | 5.2  |
| 85°   | 1.1   | 1.5 | 1.5    | 1.9  | 3.4    | 3.7  |
| 87.5° | 1.1   | 1.5 | 0.7    | 1.1  | 1.5    | 1.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)