

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: P1343382

Luminaire Tested: P3A13R159024DE010 E3A451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343382  
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: P3A13R159024DE010 E3A451MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

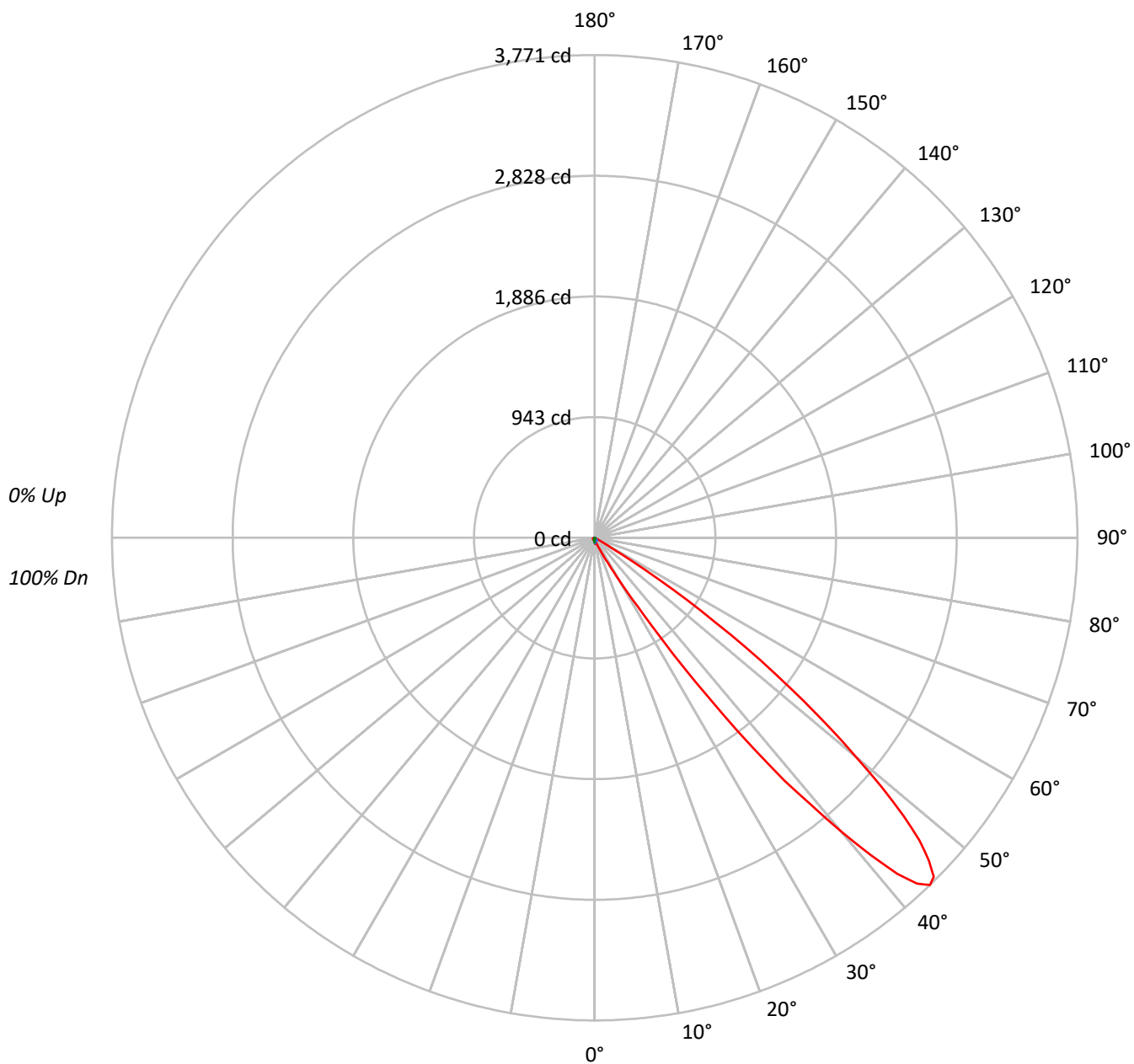
Lumens per Lamp: N/A  
Luminaire Lumens: 421.0 lumens  
Efficiency: N/A  
Efficacy: 28.8 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1343382

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°

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

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

|     | 0°      | 45°  | 90°  | 135° | 180°  |
|-----|---------|------|------|------|-------|
| 0°  | 8201    | 8201 | 8201 | 8201 | 8201  |
| 5°  | 10169   | 9047 | 7396 | 6471 | 6383  |
| 10° | 9998    | 7749 | 5700 | 5054 | 5144  |
| 15° | 8286    | 5516 | 4109 | 4200 | 4472  |
| 20° | 14398   | 4410 | 3127 | 3617 | 4107  |
| 25° | 32082   | 5274 | 2540 | 3363 | 3871  |
| 30° | 95989   | 6482 | 2228 | 3292 | 4051  |
| 35° | 369469  | 7308 | 2034 | 3373 | 4283  |
| 40° | 857578  | 6355 | 1918 | 3492 | 4580  |
| 45° | 1161578 | 4807 | 1706 | 3783 | 4962  |
| 50° | 910776  | 2866 | 1706 | 4025 | 5458  |
| 55° | 437165  | 1300 | 1606 | 4320 | 5926  |
| 60° | 39953   | 175  | 1491 | 4605 | 6622  |
| 65° | 4358    | 0    | 1297 | 4774 | 7212  |
| 70° | 1090    | 0    | 1603 | 5129 | 7822  |
| 75° | 1101    | 339  | 2118 | 5676 | 8896  |
| 80° | 1010    | 1010 | 2652 | 5809 | 9597  |
| 85° | 1006    | 1006 | 4277 | 5284 | 10567 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1161578 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 0.8       |
| 10°-20°   | 6.6    | 1.6       |
| 20°-30°   | 15.9   | 3.8       |
| 30°-40°   | 87.1   | 20.7      |
| 40°-50°   | 210.9  | 50.1      |
| 50°-60°   | 84.1   | 20.0      |
| 60°-70°   | 7.3    | 1.7       |
| 70°-80°   | 4.1    | 1.0       |
| 80°-90°   | 1.8    | 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°    | 25.7   | 6.1       |
| 0°-40°    | 112.8  | 26.8      |
| 0°-60°    | 407.8  | 96.9      |
| 0°-90°    | 421.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 421.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 37   | 37  | 37  | 37   | 37   |      |
| 5°  | 46   | 41  | 34  | 29   | 29   | 4    |
| 15° | 36   | 24  | 18  | 18   | 20   | 13   |
| 25° | 133  | 22  | 10  | 14   | 16   | 80   |
| 35° | 1380 | 27  | 8   | 13   | 16   | 975  |
| 45° | 3746 | 16  | 6   | 12   | 16   | 2642 |
| 55° | 1144 | 3   | 4   | 11   | 16   | 1065 |
| 65° | 8    | 0   | 2   | 9    | 14   | 22   |
| 75° | 1    | 0   | 2   | 7    | 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°    | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4   | 37.4  | 37.4  | 37.4  | 37.4 |
| 2.5°  | 42.0   | 42.0   | 42.4   | 42.0   | 42.0   | 42.0   | 42.0   | 41.6  | 41.6  | 41.6  | 40.3 |
| 5°    | 46.2   | 46.2   | 46.2   | 46.2   | 45.8   | 45.8   | 45.8   | 45.3  | 45.3  | 44.9  | 41.1 |
| 7.5°  | 47.9   | 47.9   | 47.4   | 47.4   | 47.0   | 47.0   | 46.6   | 46.2  | 45.8  | 45.3  | 39.5 |
| 10°   | 44.9   | 44.9   | 44.9   | 44.5   | 44.5   | 44.1   | 43.7   | 43.2  | 42.8  | 42.0  | 34.8 |
| 12.5° | 39.9   | 39.9   | 40.3   | 39.9   | 39.5   | 39.0   | 38.2   | 37.8  | 37.4  | 36.5  | 29.0 |
| 15°   | 36.5   | 36.5   | 36.5   | 36.1   | 35.7   | 34.8   | 34.4   | 33.6  | 33.2  | 31.9  | 24.3 |
| 17.5° | 46.6   | 46.6   | 46.2   | 45.3   | 43.7   | 42.4   | 40.3   | 38.6  | 36.5  | 34.0  | 21.0 |
| 20°   | 61.7   | 61.7   | 60.9   | 60.0   | 57.9   | 55.8   | 52.5   | 49.5  | 46.2  | 43.2  | 18.9 |
| 22.5° | 89.4   | 90.7   | 88.2   | 85.2   | 82.3   | 77.2   | 72.6   | 68.0  | 62.1  | 57.1  | 19.3 |
| 25°   | 132.6  | 133.9  | 132.6  | 125.9  | 120.5  | 113.8  | 104.9  | 95.7  | 85.6  | 76.4  | 21.8 |
| 27.5° | 214.9  | 215.8  | 213.7  | 197.3  | 188.5  | 170.8  | 155.3  | 140.2 | 123.4 | 106.6 | 23.9 |
| 30°   | 379.1  | 379.5  | 366.0  | 333.3  | 304.3  | 265.7  | 233.0  | 201.5 | 175.0 | 148.2 | 25.6 |
| 31°   | 499.1  | 487.4  | 458.8  | 419.4  | 373.2  | 321.1  | 276.2  | 235.5 | 196.0 | 167.1 | 26.0 |
| 32°   | 633.9  | 632.2  | 584.7  | 516.3  | 454.6  | 389.6  | 322.0  | 269.9 | 224.6 | 185.1 | 26.4 |
| 33°   | 812.3  | 813.1  | 738.4  | 657.8  | 556.6  | 469.3  | 380.7  | 309.4 | 254.8 | 206.5 | 27.3 |
| 34°   | 1091.0 | 1025.5 | 937.8  | 828.6  | 691.0  | 559.6  | 444.5  | 355.1 | 282.1 | 227.1 | 27.3 |
| 35°   | 1380.2 | 1314.3 | 1217.8 | 1052.4 | 863.5  | 679.6  | 520.5  | 404.2 | 314.8 | 249.3 | 27.3 |
| 36°   | 1704.3 | 1648.5 | 1502.4 | 1291.2 | 1050.3 | 793.0  | 601.1  | 460.9 | 347.2 | 269.5 | 26.9 |
| 37°   | 2054.4 | 1972.5 | 1810.5 | 1580.0 | 1257.7 | 952.5  | 699.3  | 517.2 | 379.5 | 291.3 | 26.0 |
| 38°   | 2409.9 | 2336.1 | 2131.6 | 1852.5 | 1505.3 | 1120.8 | 797.6  | 571.3 | 409.3 | 307.7 | 24.8 |
| 39°   | 2679.4 | 2639.1 | 2436.4 | 2124.5 | 1703.0 | 1280.3 | 898.7  | 629.2 | 440.8 | 324.1 | 23.5 |
| 40°   | 2995.9 | 2930.9 | 2738.6 | 2352.8 | 1936.8 | 1442.8 | 997.8  | 680.5 | 466.8 | 337.1 | 22.2 |
| 41°   | 3284.8 | 3202.5 | 2959.8 | 2587.1 | 2124.1 | 1588.9 | 1091.8 | 733.3 | 487.8 | 344.6 | 21.4 |
| 42°   | 3532.4 | 3436.7 | 3183.2 | 2787.7 | 2280.6 | 1705.6 | 1167.0 | 771.1 | 507.5 | 350.9 | 20.1 |
| 43°   | 3692.8 | 3610.1 | 3360.7 | 2938.4 | 2414.6 | 1812.6 | 1237.1 | 810.6 | 519.7 | 355.1 | 18.5 |
| 44°   | 3770.9 | 3687.3 | 3445.9 | 3032.9 | 2496.8 | 1876.8 | 1282.4 | 837.9 | 533.1 | 360.6 | 17.2 |
| 45°   | 3745.7 | 3660.9 | 3427.5 | 3034.6 | 2522.4 | 1899.9 | 1301.7 | 850.0 | 540.3 | 365.6 | 15.5 |
| 46°   | 3630.2 | 3570.6 | 3335.5 | 2955.6 | 2473.7 | 1875.1 | 1290.8 | 840.8 | 537.7 | 365.6 | 13.9 |
| 47°   | 3468.2 | 3400.2 | 3176.4 | 2820.1 | 2355.8 | 1811.3 | 1246.7 | 812.7 | 522.2 | 357.2 | 12.2 |
| 48°   | 3247.4 | 3189.5 | 2954.4 | 2604.7 | 2174.9 | 1672.4 | 1147.2 | 766.9 | 497.9 | 340.9 | 10.5 |
| 49°   | 2970.3 | 2889.7 | 2671.0 | 2329.3 | 1938.9 | 1475.1 | 1016.7 | 689.7 | 458.8 | 317.8 | 9.2  |
| 50°   | 2669.8 | 2570.3 | 2401.5 | 2053.5 | 1695.1 | 1264.8 | 845.0  | 583.1 | 403.8 | 287.5 | 8.4  |
| 51°   | 2375.5 | 2274.3 | 2113.6 | 1817.6 | 1434.8 | 1049.4 | 681.7  | 465.5 | 332.5 | 246.0 | 7.1  |
| 52°   | 2070.3 | 1985.5 | 1805.5 | 1572.9 | 1228.3 | 850.5  | 568.0  | 393.8 | 276.2 | 206.5 | 5.9  |
| 53°   | 1766.4 | 1708.5 | 1537.2 | 1301.7 | 986.9  | 694.7  | 463.9  | 337.1 | 241.0 | 176.7 | 4.6  |
| 54°   | 1462.1 | 1398.7 | 1268.6 | 1058.7 | 795.5  | 548.2  | 393.3  | 282.1 | 209.0 | 154.1 | 4.2  |
| 55°   | 1143.5 | 1110.7 | 990.7  | 807.2  | 602.8  | 437.4  | 319.0  | 242.6 | 175.0 | 128.9 | 3.4  |
| 56°   | 880.7  | 843.8  | 734.2  | 585.6  | 447.9  | 342.5  | 258.2  | 198.1 | 148.2 | 107.9 | 2.5  |
| 57°   | 576.8  | 539.0  | 466.4  | 408.9  | 326.2  | 249.8  | 197.3  | 156.2 | 120.5 | 89.4  | 2.1  |
| 58°   | 340.9  | 306.4  | 295.1  | 251.9  | 217.4  | 169.6  | 145.7  | 116.3 | 89.0  | 70.5  | 1.3  |
| 59°   | 156.6  | 159.1  | 141.5  | 132.6  | 120.5  | 107.9  | 88.6   | 77.7  | 60.9  | 50.8  | 0.8  |
| 60°   | 91.1   | 86.1   | 84.0   | 75.1   | 66.7   | 59.2   | 53.3   | 47.0  | 38.2  | 32.7  | 0.4  |
| 62.5° | 31.1   | 29.8   | 30.6   | 27.7   | 26.0   | 25.2   | 23.1   | 19.7  | 16.4  | 13.4  | 0.0  |
| 65°   | 8.4    | 8.4    | 8.0    | 7.6    | 7.1    | 6.7    | 6.3    | 5.5   | 5.0   | 4.2   | 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° | 2.9 | 2.9  | 2.5 | 2.5  | 2.1 | 2.1   | 1.7 | 1.7   | 1.3 | 1.3   | 0.0 |
| 70°   | 1.7 | 1.7  | 1.7 | 1.3  | 1.3 | 1.3   | 0.8 | 0.8   | 0.8 | 0.4   | 0.0 |
| 72.5° | 1.3 | 1.3  | 1.3 | 1.3  | 1.3 | 1.3   | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 |
| 75°   | 1.3 | 1.3  | 1.3 | 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°    | 37.4  | 37.4 | 37.4   | 37.4 | 37.4   | 37.4 |
| 2.5°  | 38.6  | 36.9 | 34.8   | 33.6 | 33.2   | 32.7 |
| 5°    | 36.9  | 33.6 | 31.1   | 29.4 | 29.0   | 29.0 |
| 7.5°  | 33.2  | 29.4 | 26.9   | 26.0 | 25.6   | 25.6 |
| 10°   | 29.0  | 25.6 | 23.5   | 22.7 | 23.1   | 23.1 |
| 12.5° | 24.3  | 21.4 | 20.6   | 20.6 | 21.0   | 21.4 |
| 15°   | 19.7  | 18.1 | 18.1   | 18.5 | 19.3   | 19.7 |
| 17.5° | 16.4  | 15.5 | 16.0   | 16.8 | 17.6   | 18.5 |
| 20°   | 13.4  | 13.4 | 14.3   | 15.5 | 16.8   | 17.6 |
| 22.5° | 11.3  | 11.8 | 13.0   | 14.3 | 16.0   | 16.8 |
| 25°   | 9.7   | 10.5 | 11.8   | 13.9 | 15.5   | 16.0 |
| 27.5° | 8.4   | 9.7  | 11.3   | 13.4 | 15.1   | 16.0 |
| 30°   | 7.1   | 8.8  | 10.9   | 13.0 | 15.1   | 16.0 |
| 31°   | 6.7   | 8.4  | 10.5   | 13.0 | 15.1   | 16.0 |
| 32°   | 6.3   | 8.4  | 10.5   | 13.0 | 15.1   | 16.0 |
| 33°   | 5.9   | 8.0  | 10.5   | 12.6 | 15.1   | 16.0 |
| 34°   | 5.5   | 8.0  | 10.5   | 13.0 | 15.1   | 16.0 |
| 35°   | 5.0   | 7.6  | 10.1   | 12.6 | 14.7   | 16.0 |
| 36°   | 4.6   | 7.6  | 10.1   | 12.6 | 15.1   | 16.0 |
| 37°   | 4.2   | 7.6  | 10.1   | 12.6 | 14.7   | 16.0 |
| 38°   | 4.2   | 7.1  | 9.7    | 12.6 | 14.7   | 16.0 |
| 39°   | 3.8   | 6.7  | 9.7    | 12.6 | 14.7   | 16.0 |
| 40°   | 3.4   | 6.7  | 9.2    | 12.2 | 14.7   | 16.0 |
| 41°   | 2.9   | 6.3  | 9.2    | 12.2 | 14.7   | 16.0 |
| 42°   | 2.5   | 6.3  | 9.2    | 12.2 | 14.7   | 16.0 |
| 43°   | 2.1   | 5.9  | 8.8    | 12.2 | 14.7   | 16.0 |
| 44°   | 2.1   | 5.9  | 8.8    | 12.2 | 14.7   | 16.0 |
| 45°   | 1.7   | 5.5  | 8.4    | 12.2 | 14.7   | 16.0 |
| 46°   | 1.7   | 5.5  | 8.4    | 11.8 | 14.7   | 16.0 |
| 47°   | 1.3   | 5.5  | 8.4    | 11.8 | 14.7   | 16.0 |
| 48°   | 1.3   | 5.0  | 8.4    | 11.8 | 14.7   | 16.0 |
| 49°   | 0.8   | 5.0  | 8.4    | 11.8 | 14.7   | 16.0 |
| 50°   | 0.8   | 5.0  | 8.0    | 11.8 | 14.7   | 16.0 |
| 51°   | 0.8   | 5.0  | 8.0    | 11.8 | 14.7   | 16.0 |
| 52°   | 0.8   | 4.6  | 8.0    | 11.8 | 14.7   | 16.0 |
| 53°   | 0.8   | 4.6  | 8.0    | 11.8 | 14.7   | 16.0 |
| 54°   | 0.8   | 4.6  | 7.6    | 11.8 | 14.7   | 16.0 |
| 55°   | 0.8   | 4.2  | 7.6    | 11.3 | 14.7   | 15.5 |
| 56°   | 0.8   | 4.2  | 7.6    | 11.3 | 14.7   | 15.5 |
| 57°   | 0.8   | 4.2  | 7.1    | 11.3 | 14.7   | 15.5 |
| 58°   | 0.8   | 3.8  | 7.1    | 10.9 | 14.3   | 15.5 |
| 59°   | 0.8   | 3.8  | 6.7    | 10.9 | 14.3   | 15.1 |
| 60°   | 0.8   | 3.4  | 6.7    | 10.5 | 13.9   | 15.1 |
| 62.5° | 0.8   | 2.9  | 5.9    | 10.1 | 13.4   | 14.3 |
| 65°   | 0.8   | 2.5  | 5.5    | 9.2  | 13.0   | 13.9 |





TEST NUMBER: P1343382

CATALOG NUMBER: P3A13R159024DE010 E3A451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 2.5 | 5.0    | 8.8  | 12.2   | 13.4 |
| 70°   | 0.8   | 2.5 | 4.6    | 8.0  | 11.8   | 12.2 |
| 72.5° | 1.3   | 2.5 | 4.2    | 7.6  | 10.9   | 11.3 |
| 75°   | 1.7   | 2.5 | 3.8    | 6.7  | 10.1   | 10.5 |
| 77.5° | 1.7   | 2.5 | 3.4    | 5.9  | 8.8    | 9.2  |
| 80°   | 1.7   | 2.1 | 2.9    | 4.6  | 7.1    | 7.6  |
| 82.5° | 1.7   | 2.1 | 2.1    | 3.8  | 5.5    | 5.9  |
| 85°   | 1.3   | 1.7 | 1.7    | 2.1  | 3.8    | 4.2  |
| 87.5° | 1.3   | 1.7 | 0.8    | 1.3  | 1.7    | 1.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)