

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: P1334844

Luminaire Tested: P3A02R259840DE010 E3CA451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R259840DE010 E3CA451MW  
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 98CRI , E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

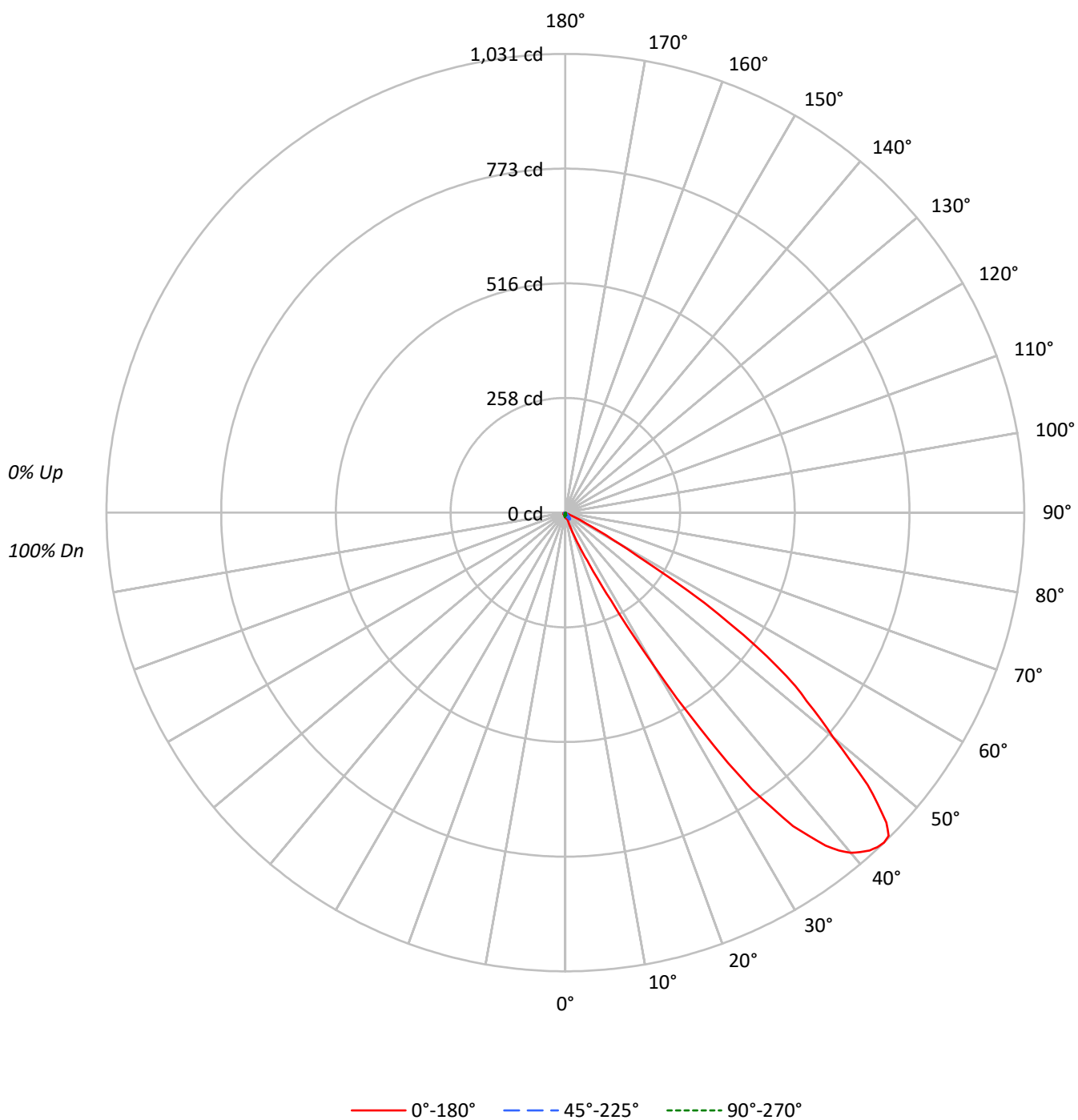
Lumens per Lamp: N/A  
Luminaire Lumens: 215.0 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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: P1334844

CATALOG NUMBER: P3A02R259840DE010 E3CA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1334844

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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  | 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  | 108 | 104 | 101 | 97  | 100 | 97  | 94  |  | 96  | 94  | 92  |  | 92  | 91  | 89  | 87  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  |  | 85  | 81  | 77  |  | 82  | 78  | 75  | 73  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 64  |  | 72  | 67  | 63  | 61  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  | 58  | 53  | 51  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  | 49  | 45  | 42  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 39  | 32  | 46  | 38  | 32  |  | 44  | 37  | 32  |  | 43  | 36  | 32  | 29  |
| 8   | 57  | 43  | 34  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  | 32  | 27  | 25  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  | 27  | 23  | 21  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  |  | 31  | 24  | 19  |  | 30  | 24  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2412   | 2412 | 2412 | 2412 | 2412 |
| 5°  | 2751   | 2619 | 2333 | 2091 | 2047 |
| 10° | 2739   | 2494 | 1982 | 1737 | 1737 |
| 15° | 3042   | 2157 | 1544 | 1453 | 1544 |
| 20° | 10781  | 2124 | 1190 | 1237 | 1377 |
| 25° | 30994  | 2710 | 968  | 1137 | 1331 |
| 30° | 98876  | 4178 | 760  | 1114 | 1342 |
| 35° | 216563 | 4926 | 669  | 1071 | 1365 |
| 40° | 285678 | 4437 | 544  | 1088 | 1460 |
| 45° | 318576 | 3101 | 527  | 1178 | 1582 |
| 50° | 268170 | 1603 | 512  | 1228 | 1740 |
| 55° | 200480 | 650  | 497  | 1376 | 1950 |
| 60° | 62056  | 175  | 482  | 1491 | 2149 |
| 65° | 5292   | 0    | 571  | 1557 | 2335 |
| 70° | 385    | 128  | 577  | 1795 | 2693 |
| 75° | 339    | 169  | 763  | 1949 | 3050 |
| 80° | 253    | 253  | 1137 | 2147 | 3536 |
| 85° | 503    | 503  | 2013 | 2264 | 3774 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 318576 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.0    | 0.5       |
| 10°-20°   | 2.5    | 1.2       |
| 20°-30°   | 11.9   | 5.5       |
| 30°-40°   | 57.3   | 26.6      |
| 40°-50°   | 89.8   | 41.7      |
| 50°-60°   | 46.0   | 21.4      |
| 60°-70°   | 4.3    | 2.0       |
| 70°-80°   | 1.5    | 0.7       |
| 80°-90°   | 0.7    | 0.3       |
| 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°    | 15.4   | 7.2       |
| 0°-40°    | 72.7   | 33.8      |
| 0°-60°    | 208.5  | 97.0      |
| 0°-90°    | 215.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 215.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 11   | 11  | 11  | 11   | 11   |      |
| 5°  | 12   | 12  | 11  | 10   | 9    | 1    |
| 15° | 13   | 10  | 7   | 6    | 7    | 6    |
| 25° | 128  | 11  | 4   | 5    | 6    | 79   |
| 35° | 809  | 18  | 2   | 4    | 5    | 491  |
| 45° | 1027 | 10  | 2   | 4    | 5    | 752  |
| 55° | 524  | 2   | 1   | 4    | 5    | 437  |
| 65° | 10   | 0   | 1   | 3    | 4    | 32   |
| 75° | 0    | 0   | 1   | 2    | 4    | 0    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1334844

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 11.0   | 11.0   | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  | 11.0 |
| 2.5°  | 11.9   | 11.9   | 11.9  | 11.9  | 11.9  | 11.9  | 11.7  | 11.7  | 11.9  | 11.7  | 11.7 |
| 5°    | 12.5   | 12.5   | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  | 12.3  | 12.3  | 12.3  | 11.9 |
| 7.5°  | 12.7   | 12.5   | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  | 12.3  | 12.3  | 11.7 |
| 10°   | 12.3   | 12.3   | 12.3  | 12.3  | 12.1  | 12.1  | 12.1  | 11.9  | 11.9  | 11.9  | 11.2 |
| 12.5° | 12.3   | 12.3   | 12.3  | 12.3  | 12.1  | 12.1  | 11.9  | 11.9  | 11.7  | 11.5  | 10.2 |
| 15°   | 13.4   | 13.4   | 13.4  | 13.2  | 13.1  | 12.9  | 12.7  | 12.5  | 12.3  | 11.9  | 9.5  |
| 17.5° | 19.7   | 19.1   | 18.9  | 18.2  | 17.2  | 16.3  | 15.5  | 14.8  | 14.0  | 13.4  | 9.1  |
| 20°   | 46.2   | 46.0   | 45.0  | 42.8  | 40.3  | 37.5  | 34.6  | 31.4  | 26.9  | 23.8  | 9.1  |
| 22.5° | 80.0   | 78.9   | 77.2  | 75.5  | 71.1  | 66.0  | 60.7  | 54.7  | 48.8  | 42.6  | 9.6  |
| 25°   | 128.1  | 130.7  | 125.1 | 120.5 | 112.9 | 103.7 | 93.7  | 85.3  | 74.7  | 64.9  | 11.2 |
| 27.5° | 222.7  | 224.4  | 213.2 | 198.5 | 180.9 | 161.4 | 142.5 | 128.3 | 110.5 | 94.2  | 14.0 |
| 30°   | 390.5  | 392.2  | 373.5 | 342.1 | 305.7 | 273.8 | 230.4 | 192.4 | 157.4 | 130.4 | 16.5 |
| 31°   | 487.4  | 474.1  | 452.4 | 421.9 | 375.9 | 327.7 | 275.7 | 229.7 | 185.4 | 149.8 | 17.2 |
| 32°   | 571.6  | 570.4  | 545.1 | 498.9 | 452.7 | 393.1 | 328.6 | 268.7 | 214.4 | 169.5 | 17.8 |
| 33°   | 670.9  | 663.3  | 627.6 | 584.0 | 522.9 | 463.0 | 379.7 | 311.2 | 244.1 | 191.5 | 18.2 |
| 34°   | 750.5  | 730.1  | 715.3 | 665.6 | 601.1 | 524.6 | 435.5 | 356.3 | 281.1 | 212.7 | 18.4 |
| 35°   | 809.0  | 804.6  | 775.9 | 729.5 | 663.9 | 585.7 | 495.7 | 403.0 | 312.2 | 237.3 | 18.4 |
| 36°   | 870.9  | 857.4  | 829.4 | 787.4 | 723.5 | 642.7 | 541.7 | 443.5 | 348.3 | 259.4 | 18.2 |
| 37°   | 909.6  | 901.7  | 873.9 | 830.6 | 767.9 | 690.8 | 593.1 | 486.2 | 377.1 | 281.5 | 17.8 |
| 38°   | 949.6  | 933.5  | 906.1 | 864.6 | 803.1 | 730.7 | 630.4 | 519.2 | 403.6 | 301.0 | 17.2 |
| 39°   | 977.2  | 960.5  | 932.5 | 891.3 | 831.1 | 759.2 | 659.9 | 547.2 | 426.6 | 315.6 | 16.5 |
| 40°   | 998.0  | 981.9  | 953.5 | 911.2 | 851.8 | 781.8 | 684.5 | 571.9 | 445.9 | 328.3 | 15.5 |
| 41°   | 1010.9 | 995.9  | 967.7 | 925.5 | 865.9 | 794.6 | 700.6 | 588.0 | 459.0 | 336.8 | 14.6 |
| 42°   | 1021.7 | 1006.3 | 977.6 | 934.4 | 874.6 | 805.6 | 710.4 | 598.2 | 467.9 | 341.1 | 13.8 |
| 43°   | 1027.7 | 1012.4 | 984.4 | 940.3 | 879.9 | 810.7 | 715.7 | 603.0 | 470.9 | 340.6 | 12.5 |
| 44°   | 1031.1 | 1015.2 | 987.0 | 942.9 | 882.2 | 812.0 | 716.1 | 602.0 | 468.8 | 336.0 | 11.4 |
| 45°   | 1027.3 | 1011.6 | 984.4 | 940.3 | 878.2 | 807.9 | 712.3 | 596.9 | 460.9 | 327.1 | 10.0 |
| 46°   | 1002.7 | 990.6  | 965.7 | 925.2 | 865.8 | 797.3 | 702.7 | 587.1 | 448.6 | 316.1 | 8.5  |
| 47°   | 959.4  | 949.8  | 925.5 | 895.5 | 841.7 | 777.8 | 684.9 | 568.3 | 431.4 | 299.7 | 6.8  |
| 48°   | 914.2  | 900.0  | 877.5 | 846.6 | 801.2 | 742.8 | 655.6 | 540.9 | 405.3 | 278.1 | 6.1  |
| 49°   | 847.4  | 839.1  | 819.2 | 784.8 | 747.1 | 695.7 | 614.1 | 505.7 | 373.3 | 254.7 | 5.3  |
| 50°   | 786.1  | 780.4  | 752.6 | 727.3 | 687.3 | 639.3 | 557.9 | 459.4 | 333.6 | 225.5 | 4.7  |
| 51°   | 738.2  | 731.4  | 711.4 | 679.8 | 637.2 | 581.4 | 504.8 | 399.2 | 288.0 | 190.9 | 3.8  |
| 52°   | 688.3  | 684.5  | 666.7 | 634.2 | 592.4 | 536.7 | 453.1 | 348.1 | 243.7 | 161.4 | 3.0  |
| 53°   | 647.4  | 641.9  | 620.2 | 591.2 | 546.0 | 488.5 | 397.1 | 300.6 | 206.4 | 135.7 | 2.6  |
| 54°   | 587.8  | 585.6  | 571.6 | 541.3 | 492.3 | 429.7 | 346.4 | 253.1 | 172.2 | 115.0 | 2.3  |
| 55°   | 524.4  | 516.9  | 502.7 | 478.7 | 433.6 | 375.2 | 287.8 | 209.8 | 139.2 | 96.9  | 1.7  |
| 56°   | 447.3  | 446.9  | 421.5 | 401.5 | 361.6 | 299.5 | 229.9 | 163.8 | 113.1 | 80.8  | 1.5  |
| 57°   | 373.5  | 361.6  | 337.1 | 317.3 | 274.3 | 227.2 | 170.7 | 122.8 | 88.5  | 65.5  | 1.1  |
| 58°   | 276.2  | 270.0  | 263.5 | 234.4 | 194.7 | 161.0 | 121.8 | 86.3  | 65.5  | 49.9  | 0.8  |
| 59°   | 187.5  | 187.3  | 179.7 | 157.6 | 134.7 | 100.3 | 76.1  | 58.7  | 45.0  | 36.7  | 0.6  |
| 60°   | 141.5  | 138.1  | 123.0 | 108.4 | 84.8  | 63.4  | 45.0  | 34.6  | 28.0  | 23.6  | 0.4  |
| 62.5° | 49.6   | 51.5   | 45.2  | 37.5  | 28.6  | 23.5  | 18.0  | 14.6  | 11.9  | 9.6   | 0.0  |
| 65°   | 10.2   | 11.2   | 9.6   | 9.1   | 7.2   | 6.2   | 5.5   | 4.7   | 4.0   | 3.4   | 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° | 1.3 | 1.1  | 1.1 | 1.1  | 0.9 | 0.9   | 0.9 | 0.9   | 0.8 | 0.8   | 0.2 |
| 70°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 |
| 75°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.4 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.0  | 0.0 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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°    | 11.0  | 11.0 | 11.0   | 11.0 | 11.0   | 11.0 |
| 2.5°  | 11.5  | 11.2 | 10.6   | 10.4 | 10.2   | 10.2 |
| 5°    | 11.4  | 10.6 | 10.0   | 9.5  | 9.3    | 9.3  |
| 7.5°  | 10.8  | 9.8  | 9.1    | 8.7  | 8.5    | 8.3  |
| 10°   | 10.2  | 8.9  | 8.1    | 7.8  | 7.8    | 7.8  |
| 12.5° | 9.1   | 7.9  | 7.2    | 7.0  | 7.2    | 7.2  |
| 15°   | 8.1   | 6.8  | 6.4    | 6.4  | 6.6    | 6.8  |
| 17.5° | 7.0   | 6.1  | 5.7    | 5.9  | 6.1    | 6.2  |
| 20°   | 6.2   | 5.1  | 5.1    | 5.3  | 5.9    | 5.9  |
| 22.5° | 5.5   | 4.5  | 4.5    | 5.1  | 5.5    | 5.7  |
| 25°   | 4.9   | 4.0  | 4.2    | 4.7  | 5.3    | 5.5  |
| 27.5° | 4.2   | 3.4  | 3.8    | 4.5  | 5.1    | 5.3  |
| 30°   | 3.6   | 3.0  | 3.6    | 4.4  | 4.9    | 5.3  |
| 31°   | 3.4   | 2.8  | 3.6    | 4.2  | 4.9    | 5.3  |
| 32°   | 3.0   | 2.8  | 3.4    | 4.2  | 4.9    | 5.1  |
| 33°   | 2.8   | 2.6  | 3.4    | 4.2  | 4.9    | 5.1  |
| 34°   | 2.6   | 2.5  | 3.2    | 4.2  | 4.9    | 5.1  |
| 35°   | 2.3   | 2.5  | 3.2    | 4.0  | 4.7    | 5.1  |
| 36°   | 2.1   | 2.3  | 3.2    | 4.0  | 4.7    | 5.1  |
| 37°   | 1.9   | 2.3  | 3.0    | 4.0  | 4.7    | 5.1  |
| 38°   | 1.7   | 2.1  | 3.0    | 4.0  | 4.7    | 5.1  |
| 39°   | 1.5   | 2.1  | 2.8    | 4.0  | 4.7    | 5.1  |
| 40°   | 1.3   | 1.9  | 2.8    | 3.8  | 4.7    | 5.1  |
| 41°   | 1.3   | 1.9  | 2.8    | 3.8  | 4.7    | 5.1  |
| 42°   | 1.1   | 1.9  | 2.8    | 3.8  | 4.7    | 5.1  |
| 43°   | 0.9   | 1.7  | 2.8    | 3.8  | 4.7    | 5.1  |
| 44°   | 0.8   | 1.7  | 2.6    | 3.8  | 4.7    | 5.1  |
| 45°   | 0.8   | 1.7  | 2.6    | 3.8  | 4.7    | 5.1  |
| 46°   | 0.6   | 1.5  | 2.6    | 3.8  | 4.7    | 5.1  |
| 47°   | 0.4   | 1.5  | 2.6    | 3.6  | 4.7    | 5.1  |
| 48°   | 0.4   | 1.5  | 2.6    | 3.6  | 4.7    | 5.1  |
| 49°   | 0.4   | 1.5  | 2.5    | 3.6  | 4.7    | 5.1  |
| 50°   | 0.4   | 1.5  | 2.5    | 3.6  | 4.7    | 5.1  |
| 51°   | 0.2   | 1.3  | 2.5    | 3.6  | 4.7    | 5.1  |
| 52°   | 0.2   | 1.3  | 2.5    | 3.6  | 4.7    | 5.3  |
| 53°   | 0.2   | 1.3  | 2.5    | 3.6  | 4.7    | 5.1  |
| 54°   | 0.2   | 1.3  | 2.3    | 3.6  | 4.7    | 5.1  |
| 55°   | 0.2   | 1.3  | 2.3    | 3.6  | 4.7    | 5.1  |
| 56°   | 0.2   | 1.1  | 2.3    | 3.4  | 4.7    | 5.1  |
| 57°   | 0.4   | 1.1  | 2.3    | 3.4  | 4.7    | 4.9  |
| 58°   | 0.4   | 1.1  | 2.3    | 3.4  | 4.5    | 4.9  |
| 59°   | 0.4   | 1.1  | 2.3    | 3.4  | 4.5    | 4.9  |
| 60°   | 0.4   | 1.1  | 2.1    | 3.4  | 4.5    | 4.9  |
| 62.5° | 0.4   | 1.1  | 2.1    | 3.2  | 4.4    | 4.7  |
| 65°   | 0.4   | 1.1  | 1.9    | 3.0  | 4.4    | 4.5  |





TEST NUMBER: P1334844

CATALOG NUMBER: P3A02R259840DE010 E3CA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 0.9 | 1.9    | 2.8  | 4.2    | 4.4  |
| 70°   | 0.6   | 0.9 | 1.7    | 2.8  | 4.0    | 4.2  |
| 72.5° | 0.6   | 0.9 | 1.7    | 2.5  | 3.6    | 4.0  |
| 75°   | 0.6   | 0.9 | 1.5    | 2.3  | 3.4    | 3.6  |
| 77.5° | 0.6   | 0.9 | 1.3    | 2.1  | 3.0    | 3.2  |
| 80°   | 0.8   | 0.9 | 1.1    | 1.7  | 2.6    | 2.8  |
| 82.5° | 0.8   | 0.9 | 0.9    | 1.3  | 2.1    | 2.3  |
| 85°   | 0.6   | 0.8 | 0.8    | 0.9  | 1.3    | 1.5  |
| 87.5° | 0.6   | 0.8 | 0.6    | 0.4  | 0.8    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)