

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: P1340524

Luminaire Tested: P3A09R209830DE010 E3CA451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340524  
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: P3A09R209830DE010 E3CA451MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

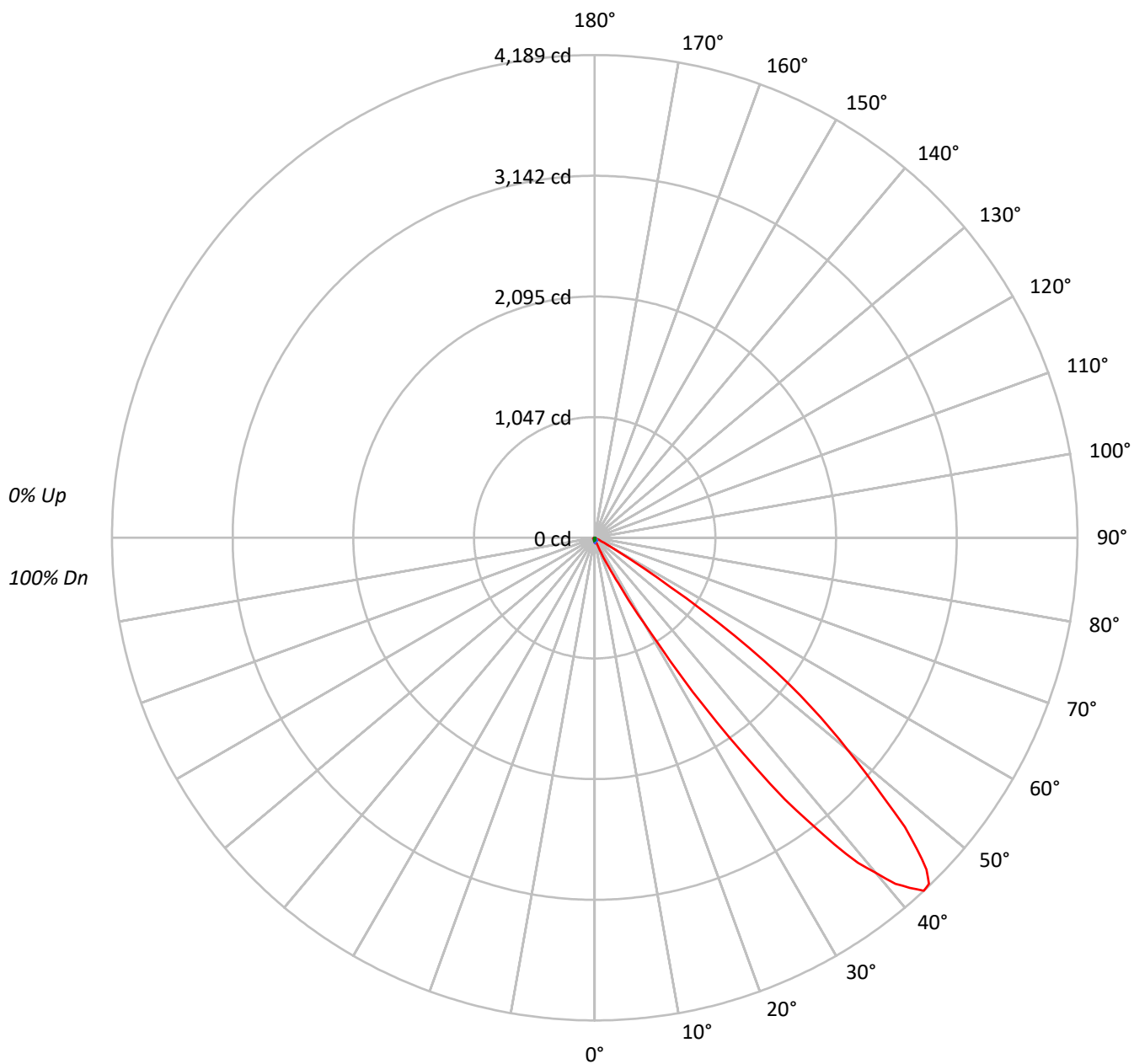
Lumens per Lamp: N/A  
Luminaire Lumens: 582.0 lumens  
Efficiency: N/A  
Efficacy: 52.9 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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



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

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

|     | 0°      | 45°  | 90°  | 135° | 180°  |
|-----|---------|------|------|------|-------|
| 0°  | 8881    | 8881 | 8881 | 8881 | 8881  |
| 5°  | 10346   | 9641 | 8298 | 7220 | 6978  |
| 10° | 10220   | 8773 | 6569 | 5611 | 5478  |
| 15° | 8944    | 6697 | 4835 | 4472 | 4722  |
| 20° | 13278   | 5624 | 3570 | 3827 | 4200  |
| 25° | 57173   | 5831 | 2782 | 3436 | 4113  |
| 30° | 216185  | 7064 | 2355 | 3317 | 4026  |
| 35° | 655337  | 8486 | 2195 | 3373 | 4256  |
| 40° | 1086693 | 8444 | 1889 | 3607 | 4551  |
| 45° | 1263108 | 5768 | 1706 | 3721 | 4931  |
| 50° | 980505  | 3173 | 1672 | 3923 | 5595  |
| 55° | 567492  | 2103 | 1682 | 4396 | 6079  |
| 60° | 95957   | 482  | 1447 | 4561 | 6710  |
| 65° | 7368    | 0    | 1712 | 5085 | 7679  |
| 70° | 1026    | 0    | 2116 | 5642 | 8784  |
| 75° | 932     | 424  | 2288 | 6524 | 10167 |
| 80° | 631     | 631  | 3410 | 6945 | 11744 |
| 85° | 1258    | 1258 | 5535 | 6793 | 12328 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1263108 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.5    | 0.6       |
| 10°-20°   | 7.3    | 1.3       |
| 20°-30°   | 23.2   | 4.0       |
| 30°-40°   | 148.4  | 25.5      |
| 40°-50°   | 271.7  | 46.7      |
| 50°-60°   | 111.6  | 19.2      |
| 60°-70°   | 9.4    | 1.6       |
| 70°-80°   | 4.7    | 0.8       |
| 80°-90°   | 2.2    | 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°    | 34.0   | 5.8       |
| 0°-40°    | 182.4  | 31.3      |
| 0°-60°    | 565.7  | 97.2      |
| 0°-90°    | 582.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 582.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 40   | 40  | 40  | 40   | 40   |      |
| 5°  | 47   | 44  | 38  | 33   | 32   | 4    |
| 15° | 39   | 30  | 21  | 20   | 21   | 13   |
| 25° | 236  | 24  | 12  | 14   | 17   | 155  |
| 35° | 2448 | 32  | 8   | 13   | 16   | 1550 |
| 45° | 4073 | 19  | 6   | 12   | 16   | 2924 |
| 55° | 1484 | 6   | 4   | 12   | 16   | 1298 |
| 65° | 14   | 0   | 3   | 10   | 15   | 46   |
| 75° | 1    | 0   | 3   | 8    | 12   | 1    |
| 85° | 0    | 0   | 2   | 3    | 5    | 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°    | 40.5   | 40.5   | 40.5   | 40.5   | 40.5   | 40.5   | 40.5   | 40.5   | 40.5   | 40.5  | 40.5 |
| 2.5°  | 44.3   | 44.3   | 44.3   | 43.8   | 43.8   | 44.3   | 43.8   | 43.8   | 43.8   | 43.8  | 43.2 |
| 5°    | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 47.0   | 46.5   | 46.5   | 45.9  | 43.8 |
| 7.5°  | 48.1   | 48.1   | 48.1   | 48.1   | 47.6   | 47.6   | 47.6   | 47.6   | 47.0   | 46.5  | 42.7 |
| 10°   | 45.9   | 45.9   | 45.9   | 45.4   | 45.4   | 45.4   | 44.8   | 44.8   | 44.3   | 43.8  | 39.4 |
| 12.5° | 41.6   | 41.6   | 41.6   | 41.6   | 41.0   | 41.0   | 40.5   | 40.5   | 39.9   | 39.4  | 34.5 |
| 15°   | 39.4   | 39.4   | 39.4   | 38.8   | 38.8   | 38.3   | 37.7   | 37.2   | 36.6   | 35.6  | 29.5 |
| 17.5° | 42.7   | 42.7   | 42.1   | 42.1   | 41.0   | 39.9   | 39.4   | 37.7   | 36.6   | 35.0  | 26.3 |
| 20°   | 56.9   | 57.4   | 55.2   | 53.6   | 52.5   | 49.2   | 47.6   | 44.8   | 42.7   | 39.9  | 24.1 |
| 22.5° | 114.9  | 112.7  | 108.8  | 102.8  | 95.7   | 89.7   | 78.8   | 70.0   | 64.0   | 55.8  | 23.5 |
| 25°   | 236.3  | 234.1  | 223.7  | 214.9  | 193.1  | 176.1  | 152.6  | 133.5  | 113.8  | 94.6  | 24.1 |
| 27.5° | 449.0  | 434.3  | 431.5  | 391.6  | 361.0  | 317.2  | 271.8  | 233.5  | 198.5  | 159.7 | 25.7 |
| 30°   | 853.8  | 836.8  | 777.2  | 717.0  | 634.5  | 540.9  | 451.8  | 368.6  | 299.2  | 236.3 | 27.9 |
| 31°   | 1083.5 | 1099.9 | 1029.9 | 909.0  | 787.1  | 667.3  | 545.3  | 439.7  | 350.0  | 271.8 | 29.0 |
| 32°   | 1424.2 | 1352.6 | 1278.8 | 1154.6 | 977.4  | 824.2  | 671.1  | 519.0  | 400.9  | 310.1 | 30.1 |
| 33°   | 1746.4 | 1704.3 | 1591.6 | 1436.8 | 1224.1 | 1009.1 | 810.6  | 612.6  | 463.3  | 356.6 | 30.6 |
| 34°   | 2089.9 | 2043.4 | 1952.0 | 1730.0 | 1496.4 | 1214.8 | 950.0  | 720.3  | 537.6  | 402.0 | 31.2 |
| 35°   | 2448.1 | 2428.4 | 2252.3 | 2059.8 | 1772.6 | 1433.0 | 1118.0 | 838.5  | 610.4  | 443.6 | 31.7 |
| 36°   | 2808.6 | 2745.1 | 2607.3 | 2326.2 | 2026.4 | 1634.8 | 1294.1 | 948.4  | 684.2  | 492.8 | 31.7 |
| 37°   | 3079.8 | 3065.6 | 2882.9 | 2608.9 | 2256.7 | 1850.3 | 1446.1 | 1070.4 | 758.6  | 534.9 | 31.7 |
| 38°   | 3379.0 | 3322.7 | 3137.3 | 2858.3 | 2473.3 | 2047.8 | 1605.3 | 1176.5 | 829.2  | 573.2 | 31.2 |
| 39°   | 3631.2 | 3547.5 | 3360.4 | 3084.8 | 2662.5 | 2197.6 | 1731.6 | 1279.3 | 891.5  | 604.9 | 30.6 |
| 40°   | 3796.3 | 3738.4 | 3543.1 | 3233.0 | 2834.3 | 2339.3 | 1859.6 | 1364.1 | 938.0  | 629.0 | 29.5 |
| 41°   | 3978.5 | 3882.2 | 3689.1 | 3377.4 | 2959.0 | 2464.0 | 1940.0 | 1419.9 | 974.1  | 644.8 | 28.4 |
| 42°   | 4087.3 | 4008.5 | 3779.4 | 3474.2 | 3048.1 | 2535.1 | 2005.6 | 1462.5 | 996.0  | 653.1 | 26.3 |
| 43°   | 4189.0 | 4081.8 | 3858.7 | 3530.5 | 3107.2 | 2585.4 | 2035.7 | 1482.2 | 1000.9 | 653.1 | 23.5 |
| 44°   | 4175.4 | 4073.6 | 3842.3 | 3538.2 | 3120.3 | 2600.2 | 2048.3 | 1482.8 | 993.2  | 644.8 | 20.8 |
| 45°   | 4073.1 | 3971.9 | 3763.5 | 3471.4 | 3073.3 | 2571.2 | 2023.1 | 1460.9 | 971.9  | 630.6 | 18.6 |
| 46°   | 3885.5 | 3784.8 | 3625.1 | 3359.9 | 2985.8 | 2505.5 | 1964.6 | 1413.3 | 936.4  | 607.7 | 16.4 |
| 47°   | 3681.5 | 3583.6 | 3420.0 | 3179.9 | 2836.4 | 2388.5 | 1879.8 | 1346.6 | 886.6  | 574.3 | 14.8 |
| 48°   | 3385.6 | 3324.3 | 3160.2 | 2955.1 | 2629.2 | 2205.3 | 1731.1 | 1237.7 | 819.9  | 531.1 | 12.6 |
| 49°   | 3124.1 | 3059.6 | 2915.8 | 2695.3 | 2359.0 | 1992.0 | 1553.3 | 1105.4 | 732.9  | 483.0 | 10.9 |
| 50°   | 2874.2 | 2817.9 | 2684.9 | 2436.1 | 2115.0 | 1734.4 | 1313.2 | 938.6  | 623.5  | 423.3 | 9.3  |
| 51°   | 2629.7 | 2587.6 | 2451.9 | 2223.3 | 1897.3 | 1536.4 | 1137.6 | 781.6  | 515.2  | 351.1 | 8.8  |
| 52°   | 2384.1 | 2379.2 | 2232.1 | 2000.7 | 1685.7 | 1338.9 | 967.0  | 659.6  | 437.0  | 294.8 | 8.2  |
| 53°   | 2120.0 | 2088.2 | 1959.7 | 1751.9 | 1449.4 | 1133.3 | 819.9  | 556.2  | 376.3  | 251.0 | 7.1  |
| 54°   | 1819.1 | 1783.6 | 1645.8 | 1458.2 | 1184.1 | 928.2  | 660.7  | 449.6  | 313.4  | 212.2 | 6.6  |
| 55°   | 1484.4 | 1423.7 | 1323.6 | 1131.1 | 924.9  | 708.3  | 510.3  | 356.1  | 250.5  | 176.7 | 5.5  |
| 56°   | 1126.2 | 1065.4 | 1009.1 | 867.5  | 678.8  | 528.3  | 380.1  | 272.9  | 195.8  | 139.5 | 4.9  |
| 57°   | 783.2  | 779.9  | 687.5  | 578.7  | 454.0  | 359.9  | 260.3  | 192.5  | 138.4  | 108.3 | 3.8  |
| 58°   | 508.1  | 491.2  | 432.1  | 369.2  | 297.0  | 224.8  | 167.4  | 130.7  | 94.1   | 73.8  | 3.3  |
| 59°   | 356.1  | 322.1  | 290.4  | 246.1  | 187.1  | 141.7  | 107.7  | 83.7   | 65.1   | 51.4  | 2.2  |
| 60°   | 218.8  | 211.7  | 190.3  | 149.9  | 121.4  | 100.1  | 80.4   | 61.8   | 47.6   | 36.6  | 1.1  |
| 62.5° | 62.4   | 63.4   | 57.4   | 50.9   | 43.8   | 37.7   | 33.9   | 29.0   | 24.1   | 19.1  | 0.0  |
| 65°   | 14.2   | 13.7   | 14.8   | 13.7   | 12.6   | 12.6   | 10.9   | 9.8    | 8.8    | 8.2   | 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° | 4.4 | 4.4  | 3.8 | 3.8  | 3.8 | 3.3   | 3.3 | 2.7   | 2.7 | 2.2   | 0.0 |
| 70°   | 1.6 | 1.6  | 1.6 | 1.6  | 1.6 | 1.1   | 1.1 | 1.1   | 0.5 | 0.5   | 0.0 |
| 72.5° | 1.6 | 1.6  | 1.6 | 1.1  | 1.1 | 1.1   | 1.1 | 1.1   | 0.5 | 0.5   | 0.5 |
| 75°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 1.1   | 1.1 | 0.5   | 0.5 | 0.5   | 0.5 |
| 77.5° | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 0.5   | 1.1 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 82.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 85°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 | 0.0   | 0.5 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 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°    | 40.5  | 40.5 | 40.5   | 40.5 | 40.5   | 40.5 |
| 2.5°  | 42.1  | 39.9 | 38.3   | 36.6 | 36.1   | 36.1 |
| 5°    | 41.0  | 37.7 | 34.5   | 32.8 | 31.7   | 31.7 |
| 7.5°  | 37.7  | 33.9 | 30.6   | 29.0 | 28.4   | 28.4 |
| 10°   | 33.9  | 29.5 | 26.3   | 25.2 | 25.2   | 24.6 |
| 12.5° | 29.5  | 25.2 | 23.0   | 22.4 | 22.4   | 22.4 |
| 15°   | 24.6  | 21.3 | 19.7   | 19.7 | 20.2   | 20.8 |
| 17.5° | 20.8  | 17.5 | 17.0   | 18.0 | 19.1   | 19.1 |
| 20°   | 17.5  | 15.3 | 15.3   | 16.4 | 17.5   | 18.0 |
| 22.5° | 14.8  | 13.1 | 13.7   | 15.3 | 17.0   | 17.5 |
| 25°   | 13.1  | 11.5 | 12.6   | 14.2 | 15.9   | 17.0 |
| 27.5° | 10.9  | 10.4 | 11.5   | 13.7 | 15.9   | 16.4 |
| 30°   | 9.3   | 9.3  | 10.9   | 13.1 | 15.3   | 15.9 |
| 31°   | 8.8   | 8.8  | 10.9   | 13.1 | 15.3   | 15.9 |
| 32°   | 8.2   | 8.8  | 10.4   | 13.1 | 15.3   | 15.9 |
| 33°   | 7.7   | 8.2  | 10.4   | 12.6 | 15.3   | 15.9 |
| 34°   | 7.1   | 8.2  | 10.4   | 12.6 | 15.3   | 15.9 |
| 35°   | 6.6   | 8.2  | 10.4   | 12.6 | 15.3   | 15.9 |
| 36°   | 6.0   | 7.7  | 9.8    | 12.6 | 15.3   | 15.9 |
| 37°   | 5.5   | 7.7  | 9.8    | 12.6 | 15.3   | 15.9 |
| 38°   | 4.9   | 7.1  | 9.8    | 12.6 | 15.3   | 15.9 |
| 39°   | 4.9   | 7.1  | 9.3    | 12.6 | 14.8   | 15.9 |
| 40°   | 4.4   | 6.6  | 9.3    | 12.6 | 14.8   | 15.9 |
| 41°   | 3.8   | 6.6  | 9.3    | 12.0 | 14.8   | 15.9 |
| 42°   | 3.3   | 6.0  | 8.8    | 12.0 | 14.8   | 15.9 |
| 43°   | 2.7   | 6.0  | 8.8    | 12.0 | 14.8   | 15.9 |
| 44°   | 2.7   | 5.5  | 8.8    | 12.0 | 14.8   | 15.9 |
| 45°   | 2.2   | 5.5  | 8.8    | 12.0 | 14.8   | 15.9 |
| 46°   | 1.6   | 5.5  | 8.8    | 12.0 | 14.8   | 15.9 |
| 47°   | 1.6   | 4.9  | 8.2    | 12.0 | 14.8   | 15.9 |
| 48°   | 1.1   | 4.9  | 8.2    | 12.0 | 14.8   | 15.9 |
| 49°   | 1.1   | 4.9  | 8.2    | 12.0 | 14.8   | 16.4 |
| 50°   | 1.1   | 4.9  | 8.2    | 11.5 | 14.8   | 16.4 |
| 51°   | 0.5   | 4.9  | 8.2    | 11.5 | 14.8   | 16.4 |
| 52°   | 0.5   | 4.9  | 7.7    | 11.5 | 15.3   | 16.4 |
| 53°   | 0.5   | 4.4  | 7.7    | 11.5 | 15.3   | 16.4 |
| 54°   | 0.5   | 4.4  | 7.7    | 11.5 | 15.3   | 15.9 |
| 55°   | 0.5   | 4.4  | 7.7    | 11.5 | 14.8   | 15.9 |
| 56°   | 0.5   | 3.8  | 7.7    | 11.5 | 14.8   | 15.9 |
| 57°   | 0.5   | 3.8  | 7.1    | 10.9 | 14.8   | 15.3 |
| 58°   | 0.5   | 3.8  | 7.1    | 10.9 | 14.8   | 15.3 |
| 59°   | 0.5   | 3.8  | 7.1    | 10.9 | 14.2   | 15.3 |
| 60°   | 1.1   | 3.3  | 6.6    | 10.4 | 14.2   | 15.3 |
| 62.5° | 1.1   | 3.3  | 6.6    | 10.4 | 13.7   | 14.8 |
| 65°   | 1.1   | 3.3  | 6.0    | 9.8  | 13.7   | 14.8 |



TEST NUMBER: P1340524

CATALOG NUMBER: P3A09R209830DE010 E3CA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.1   | 2.7 | 5.5    | 9.3  | 13.1   | 14.2 |
| 70°   | 1.1   | 3.3 | 5.5    | 8.8  | 12.6   | 13.7 |
| 72.5° | 1.6   | 2.7 | 4.9    | 8.2  | 12.0   | 13.1 |
| 75°   | 1.6   | 2.7 | 4.9    | 7.7  | 11.5   | 12.0 |
| 77.5° | 2.2   | 2.7 | 4.4    | 6.6  | 10.4   | 10.9 |
| 80°   | 2.2   | 2.7 | 3.8    | 5.5  | 8.8    | 9.3  |
| 82.5° | 2.2   | 2.7 | 2.7    | 4.4  | 6.6    | 7.1  |
| 85°   | 1.6   | 2.2 | 2.2    | 2.7  | 4.4    | 4.9  |
| 87.5° | 1.6   | 2.2 | 1.6    | 1.1  | 2.2    | 2.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)