

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: P1334336

Luminaire Tested: P3A02R209030D2WDE010 E3CA451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334336  
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: P3A02R209030D2WDE010 E3CA451MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

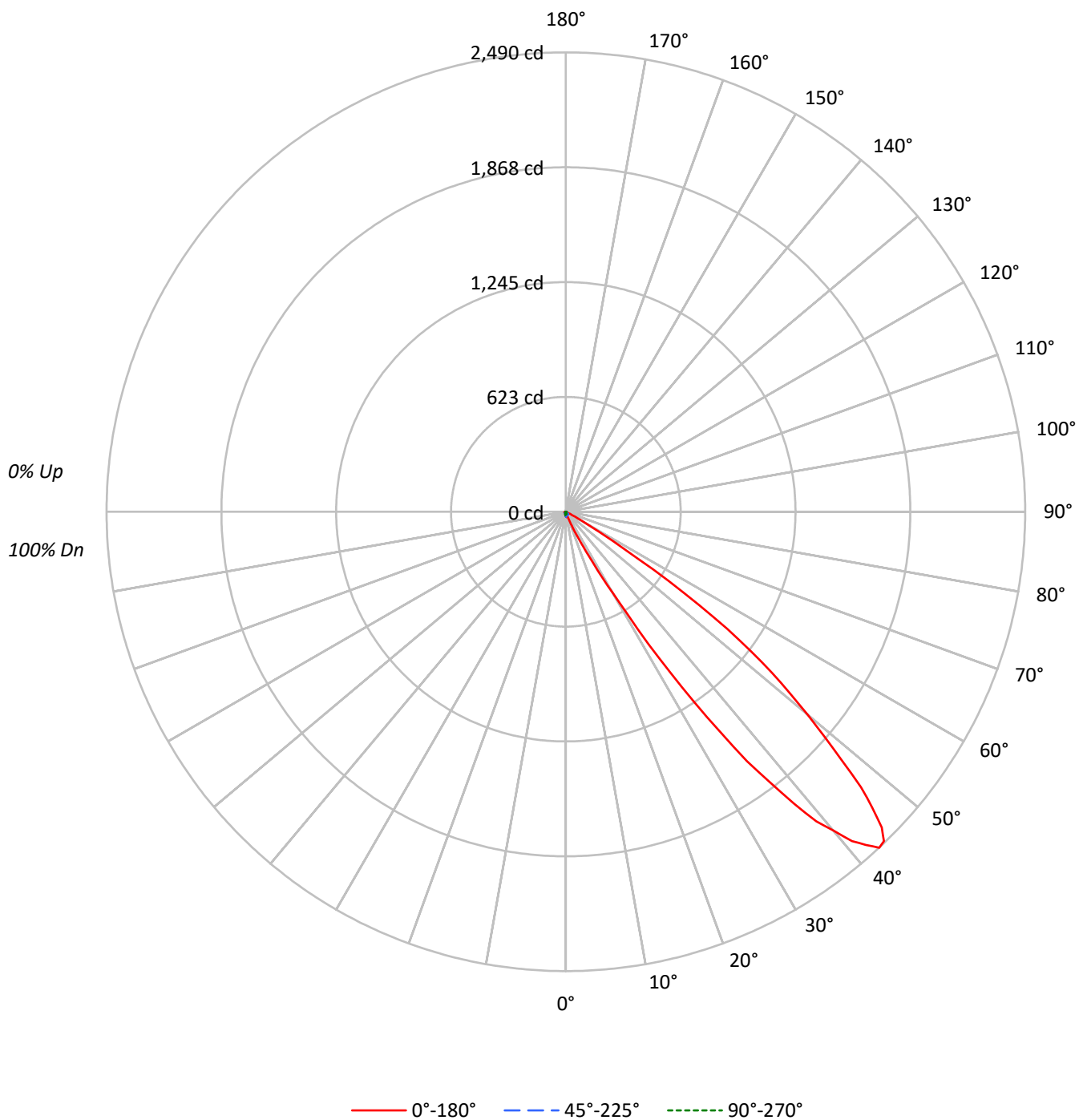
Lumens per Lamp: N/A  
Luminaire Lumens: 346.0 lumens  
Efficiency: N/A  
Efficacy: 48.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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: P1334336

CATALOG NUMBER: P3A02R209030D2WDE010 E3CA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1334336

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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  | 65  |  | 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  | 38  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  |  | 44  | 37  | 32  |  | 43  | 36  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  | 31  | 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  | 19  |  | 31  | 24  | 19  |  | 30  | 24  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 5285   | 5285 | 5285 | 5285 | 5285 |
| 5°  | 6163   | 5723 | 4931 | 4292 | 4160 |
| 10° | 6079   | 5210 | 3919 | 3340 | 3251 |
| 15° | 5312   | 3995 | 2883 | 2656 | 2815 |
| 20° | 7887   | 3337 | 2124 | 2287 | 2497 |
| 25° | 33994  | 3460 | 1645 | 2057 | 2444 |
| 30° | 128526 | 4203 | 1393 | 1975 | 2380 |
| 35° | 389599 | 5059 | 1312 | 2008 | 2516 |
| 40° | 646039 | 5038 | 1116 | 2147 | 2691 |
| 45° | 750931 | 3442 | 1023 | 2233 | 2915 |
| 50° | 582906 | 1876 | 989  | 2320 | 3343 |
| 55° | 337383 | 1262 | 994  | 2600 | 3594 |
| 60° | 57057  | 307  | 877  | 2719 | 3991 |
| 65° | 4410   | 0    | 1038 | 3061 | 4566 |
| 70° | 641    | 0    | 1282 | 3334 | 5193 |
| 75° | 593    | 254  | 1356 | 3897 | 6100 |
| 80° | 379    | 379  | 2020 | 4167 | 6945 |
| 85° | 755    | 755  | 3271 | 4026 | 7296 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 750931 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.1    | 0.6       |
| 10°-20°   | 4.3    | 1.3       |
| 20°-30°   | 13.8   | 4.0       |
| 30°-40°   | 88.2   | 25.5      |
| 40°-50°   | 161.5  | 46.7      |
| 50°-60°   | 66.4   | 19.2      |
| 60°-70°   | 5.6    | 1.6       |
| 70°-80°   | 2.8    | 0.8       |
| 80°-90°   | 1.3    | 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°    | 20.2   | 5.8       |
| 0°-40°    | 108.4  | 31.3      |
| 0°-60°    | 336.3  | 97.2      |
| 0°-90°    | 346.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 346.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 24   | 24  | 24  | 24   | 24   |      |
| 5°  | 28   | 26  | 22  | 20   | 19   | 3    |
| 15° | 23   | 18  | 13  | 12   | 12   | 7    |
| 25° | 140  | 14  | 7   | 8    | 10   | 92   |
| 35° | 1455 | 19  | 5   | 8    | 9    | 921  |
| 45° | 2422 | 11  | 3   | 7    | 9    | 1739 |
| 55° | 882  | 3   | 3   | 7    | 9    | 771  |
| 65° | 8    | 0   | 2   | 6    | 9    | 28   |
| 75° | 1    | 0   | 2   | 5    | 7    | 1    |
| 85° | 0    | 0   | 1   | 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°    | 24.1   | 24.1   | 24.1   | 24.1   | 24.1   | 24.1   | 24.1   | 24.1  | 24.1  | 24.1  | 24.1 |
| 2.5°  | 26.3   | 26.3   | 26.3   | 26.0   | 26.0   | 26.3   | 26.0   | 26.0  | 26.0  | 26.0  | 25.7 |
| 5°    | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 27.6  | 27.6  | 27.3  | 26.0 |
| 7.5°  | 28.6   | 28.6   | 28.6   | 28.6   | 28.3   | 28.3   | 28.3   | 28.3  | 28.0  | 27.6  | 25.4 |
| 10°   | 27.3   | 27.3   | 27.3   | 27.0   | 27.0   | 27.0   | 26.7   | 26.7  | 26.3  | 26.0  | 23.4 |
| 12.5° | 24.7   | 24.7   | 24.7   | 24.7   | 24.4   | 24.4   | 24.1   | 24.1  | 23.7  | 23.4  | 20.5 |
| 15°   | 23.4   | 23.4   | 23.4   | 23.1   | 23.1   | 22.8   | 22.4   | 22.1  | 21.8  | 21.1  | 17.6 |
| 17.5° | 25.4   | 25.4   | 25.0   | 25.0   | 24.4   | 23.7   | 23.4   | 22.4  | 21.8  | 20.8  | 15.6 |
| 20°   | 33.8   | 34.1   | 32.8   | 31.9   | 31.2   | 29.3   | 28.3   | 26.7  | 25.4  | 23.7  | 14.3 |
| 22.5° | 68.3   | 67.0   | 64.7   | 61.1   | 56.9   | 53.3   | 46.8   | 41.6  | 38.0  | 33.2  | 14.0 |
| 25°   | 140.5  | 139.2  | 133.0  | 127.8  | 114.8  | 104.7  | 90.7   | 79.3  | 67.6  | 56.3  | 14.3 |
| 27.5° | 267.0  | 258.2  | 256.6  | 232.8  | 214.6  | 188.6  | 161.6  | 138.8 | 118.0 | 94.9  | 15.3 |
| 30°   | 507.6  | 497.5  | 462.1  | 426.3  | 377.2  | 321.6  | 268.6  | 219.2 | 177.9 | 140.5 | 16.6 |
| 31°   | 644.1  | 653.9  | 612.3  | 540.4  | 467.9  | 396.7  | 324.2  | 261.4 | 208.1 | 161.6 | 17.2 |
| 32°   | 846.7  | 804.1  | 760.2  | 686.4  | 581.1  | 490.0  | 399.0  | 308.6 | 238.3 | 184.4 | 17.9 |
| 33°   | 1038.2 | 1013.2 | 946.2  | 854.2  | 727.7  | 599.9  | 481.9  | 364.2 | 275.4 | 212.0 | 18.2 |
| 34°   | 1242.4 | 1214.8 | 1160.5 | 1028.5 | 889.6  | 722.2  | 564.8  | 428.2 | 319.6 | 239.0 | 18.5 |
| 35°   | 1455.4 | 1443.7 | 1339.0 | 1224.5 | 1053.8 | 851.9  | 664.6  | 498.5 | 362.9 | 263.7 | 18.9 |
| 36°   | 1669.7 | 1632.0 | 1550.0 | 1382.9 | 1204.7 | 971.9  | 769.3  | 563.8 | 406.8 | 293.0 | 18.9 |
| 37°   | 1831.0 | 1822.5 | 1713.9 | 1551.0 | 1341.6 | 1100.0 | 859.7  | 636.3 | 451.0 | 318.0 | 18.9 |
| 38°   | 2008.8 | 1975.3 | 1865.1 | 1699.3 | 1470.4 | 1217.4 | 954.3  | 699.4 | 492.9 | 340.8 | 18.5 |
| 39°   | 2158.7 | 2109.0 | 1997.8 | 1833.9 | 1582.9 | 1306.5 | 1029.5 | 760.5 | 530.0 | 359.6 | 18.2 |
| 40°   | 2256.9 | 2222.5 | 2106.4 | 1922.0 | 1685.0 | 1390.7 | 1105.5 | 810.9 | 557.6 | 373.9 | 17.6 |
| 41°   | 2365.2 | 2308.0 | 2193.2 | 2007.9 | 1759.1 | 1464.8 | 1153.3 | 844.1 | 579.1 | 383.4 | 16.9 |
| 42°   | 2429.9 | 2383.1 | 2246.8 | 2065.4 | 1812.1 | 1507.1 | 1192.4 | 869.5 | 592.1 | 388.2 | 15.6 |
| 43°   | 2490.4 | 2426.7 | 2294.0 | 2098.9 | 1847.2 | 1537.0 | 1210.2 | 881.2 | 595.0 | 388.2 | 14.0 |
| 44°   | 2482.3 | 2421.8 | 2284.2 | 2103.5 | 1855.0 | 1545.8 | 1217.7 | 881.5 | 590.5 | 383.4 | 12.4 |
| 45°   | 2421.5 | 2361.3 | 2237.4 | 2063.8 | 1827.1 | 1528.6 | 1202.8 | 868.5 | 577.8 | 374.9 | 11.1 |
| 46°   | 2309.9 | 2250.1 | 2155.2 | 1997.5 | 1775.0 | 1489.6 | 1168.0 | 840.2 | 556.7 | 361.3 | 9.8  |
| 47°   | 2188.6 | 2130.4 | 2033.2 | 1890.5 | 1686.3 | 1420.0 | 1117.6 | 800.5 | 527.1 | 341.4 | 8.8  |
| 48°   | 2012.7 | 1976.3 | 1878.8 | 1756.8 | 1563.0 | 1311.0 | 1029.1 | 735.8 | 487.4 | 315.7 | 7.5  |
| 49°   | 1857.3 | 1818.9 | 1733.4 | 1602.4 | 1402.4 | 1184.2 | 923.5  | 657.1 | 435.7 | 287.1 | 6.5  |
| 50°   | 1708.7 | 1675.2 | 1596.2 | 1448.3 | 1257.4 | 1031.1 | 780.7  | 558.0 | 370.7 | 251.7 | 5.5  |
| 51°   | 1563.4 | 1538.3 | 1457.7 | 1321.8 | 1128.0 | 913.4  | 676.3  | 464.7 | 306.3 | 208.8 | 5.2  |
| 52°   | 1417.4 | 1414.4 | 1327.0 | 1189.4 | 1002.1 | 796.0  | 574.9  | 392.1 | 259.8 | 175.3 | 4.9  |
| 53°   | 1260.3 | 1241.5 | 1165.0 | 1041.5 | 861.7  | 673.7  | 487.4  | 330.7 | 223.7 | 149.2 | 4.2  |
| 54°   | 1081.5 | 1060.3 | 978.4  | 866.9  | 704.0  | 551.8  | 392.8  | 267.3 | 186.3 | 126.2 | 3.9  |
| 55°   | 882.5  | 846.4  | 786.9  | 672.4  | 549.8  | 421.1  | 303.4  | 211.7 | 148.9 | 105.0 | 3.3  |
| 56°   | 669.5  | 633.4  | 599.9  | 515.7  | 403.5  | 314.1  | 226.0  | 162.3 | 116.4 | 82.9  | 2.9  |
| 57°   | 465.6  | 463.7  | 408.7  | 344.0  | 269.9  | 214.0  | 154.8  | 114.5 | 82.3  | 64.4  | 2.3  |
| 58°   | 302.1  | 292.0  | 256.9  | 219.5  | 176.6  | 133.6  | 99.5   | 77.7  | 55.9  | 43.9  | 2.0  |
| 59°   | 211.7  | 191.5  | 172.7  | 146.3  | 111.2  | 84.2   | 64.1   | 49.7  | 38.7  | 30.6  | 1.3  |
| 60°   | 130.1  | 125.8  | 113.2  | 89.1   | 72.2   | 59.5   | 47.8   | 36.7  | 28.3  | 21.8  | 0.7  |
| 62.5° | 37.1   | 37.7   | 34.1   | 30.2   | 26.0   | 22.4   | 20.2   | 17.2  | 14.3  | 11.4  | 0.0  |
| 65°   | 8.5    | 8.1    | 8.8    | 8.1    | 7.5    | 7.5    | 6.5    | 5.9   | 5.2   | 4.9   | 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  | 2.3 | 2.3  | 2.3 | 2.0   | 2.0 | 1.6   | 1.6 | 1.3   | 0.0 |
| 70°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 0.7   | 0.7 | 0.7   | 0.3 | 0.3   | 0.0 |
| 72.5° | 1.0 | 1.0  | 1.0 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.3 | 0.3   | 0.3 |
| 75°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.3   | 0.3 | 0.3   | 0.3 |
| 77.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.3   | 0.7 | 0.3   | 0.3 | 0.3   | 0.3 |
| 80°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 |
| 82.5° | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 |
| 85°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.0 | 0.0   | 0.3 | 0.3   | 0.3 | 0.0   | 0.3 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 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°    | 24.1  | 24.1 | 24.1   | 24.1 | 24.1   | 24.1 |
| 2.5°  | 25.0  | 23.7 | 22.8   | 21.8 | 21.5   | 21.5 |
| 5°    | 24.4  | 22.4 | 20.5   | 19.5 | 18.9   | 18.9 |
| 7.5°  | 22.4  | 20.2 | 18.2   | 17.2 | 16.9   | 16.9 |
| 10°   | 20.2  | 17.6 | 15.6   | 15.0 | 15.0   | 14.6 |
| 12.5° | 17.6  | 15.0 | 13.7   | 13.3 | 13.3   | 13.3 |
| 15°   | 14.6  | 12.7 | 11.7   | 11.7 | 12.0   | 12.4 |
| 17.5° | 12.4  | 10.4 | 10.1   | 10.7 | 11.4   | 11.4 |
| 20°   | 10.4  | 9.1  | 9.1    | 9.8  | 10.4   | 10.7 |
| 22.5° | 8.8   | 7.8  | 8.1    | 9.1  | 10.1   | 10.4 |
| 25°   | 7.8   | 6.8  | 7.5    | 8.5  | 9.4    | 10.1 |
| 27.5° | 6.5   | 6.2  | 6.8    | 8.1  | 9.4    | 9.8  |
| 30°   | 5.5   | 5.5  | 6.5    | 7.8  | 9.1    | 9.4  |
| 31°   | 5.2   | 5.2  | 6.5    | 7.8  | 9.1    | 9.4  |
| 32°   | 4.9   | 5.2  | 6.2    | 7.8  | 9.1    | 9.4  |
| 33°   | 4.6   | 4.9  | 6.2    | 7.5  | 9.1    | 9.4  |
| 34°   | 4.2   | 4.9  | 6.2    | 7.5  | 9.1    | 9.4  |
| 35°   | 3.9   | 4.9  | 6.2    | 7.5  | 9.1    | 9.4  |
| 36°   | 3.6   | 4.6  | 5.9    | 7.5  | 9.1    | 9.4  |
| 37°   | 3.3   | 4.6  | 5.9    | 7.5  | 9.1    | 9.4  |
| 38°   | 2.9   | 4.2  | 5.9    | 7.5  | 9.1    | 9.4  |
| 39°   | 2.9   | 4.2  | 5.5    | 7.5  | 8.8    | 9.4  |
| 40°   | 2.6   | 3.9  | 5.5    | 7.5  | 8.8    | 9.4  |
| 41°   | 2.3   | 3.9  | 5.5    | 7.2  | 8.8    | 9.4  |
| 42°   | 2.0   | 3.6  | 5.2    | 7.2  | 8.8    | 9.4  |
| 43°   | 1.6   | 3.6  | 5.2    | 7.2  | 8.8    | 9.4  |
| 44°   | 1.6   | 3.3  | 5.2    | 7.2  | 8.8    | 9.4  |
| 45°   | 1.3   | 3.3  | 5.2    | 7.2  | 8.8    | 9.4  |
| 46°   | 1.0   | 3.3  | 5.2    | 7.2  | 8.8    | 9.4  |
| 47°   | 1.0   | 2.9  | 4.9    | 7.2  | 8.8    | 9.4  |
| 48°   | 0.7   | 2.9  | 4.9    | 7.2  | 8.8    | 9.4  |
| 49°   | 0.7   | 2.9  | 4.9    | 7.2  | 8.8    | 9.8  |
| 50°   | 0.7   | 2.9  | 4.9    | 6.8  | 8.8    | 9.8  |
| 51°   | 0.3   | 2.9  | 4.9    | 6.8  | 8.8    | 9.8  |
| 52°   | 0.3   | 2.9  | 4.6    | 6.8  | 9.1    | 9.8  |
| 53°   | 0.3   | 2.6  | 4.6    | 6.8  | 9.1    | 9.8  |
| 54°   | 0.3   | 2.6  | 4.6    | 6.8  | 9.1    | 9.4  |
| 55°   | 0.3   | 2.6  | 4.6    | 6.8  | 8.8    | 9.4  |
| 56°   | 0.3   | 2.3  | 4.6    | 6.8  | 8.8    | 9.4  |
| 57°   | 0.3   | 2.3  | 4.2    | 6.5  | 8.8    | 9.1  |
| 58°   | 0.3   | 2.3  | 4.2    | 6.5  | 8.8    | 9.1  |
| 59°   | 0.3   | 2.3  | 4.2    | 6.5  | 8.5    | 9.1  |
| 60°   | 0.7   | 2.0  | 3.9    | 6.2  | 8.5    | 9.1  |
| 62.5° | 0.7   | 2.0  | 3.9    | 6.2  | 8.1    | 8.8  |
| 65°   | 0.7   | 2.0  | 3.6    | 5.9  | 8.1    | 8.8  |



TEST NUMBER: P1334336

CATALOG NUMBER: P3A02R209030D2WDE010 E3CA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.7   | 1.6 | 3.3    | 5.5  | 7.8    | 8.5  |
| 70°   | 0.7   | 2.0 | 3.3    | 5.2  | 7.5    | 8.1  |
| 72.5° | 1.0   | 1.6 | 2.9    | 4.9  | 7.2    | 7.8  |
| 75°   | 1.0   | 1.6 | 2.9    | 4.6  | 6.8    | 7.2  |
| 77.5° | 1.3   | 1.6 | 2.6    | 3.9  | 6.2    | 6.5  |
| 80°   | 1.3   | 1.6 | 2.3    | 3.3  | 5.2    | 5.5  |
| 82.5° | 1.3   | 1.6 | 1.6    | 2.6  | 3.9    | 4.2  |
| 85°   | 1.0   | 1.3 | 1.3    | 1.6  | 2.6    | 2.9  |
| 87.5° | 1.0   | 1.3 | 1.0    | 0.7  | 1.3    | 1.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)