

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: P1339872

Luminaire Tested: P3A09R159030D2WDE010 E3CA451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1339872  
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: P3A09R159030D2WDE010 E3CA451MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,  
E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

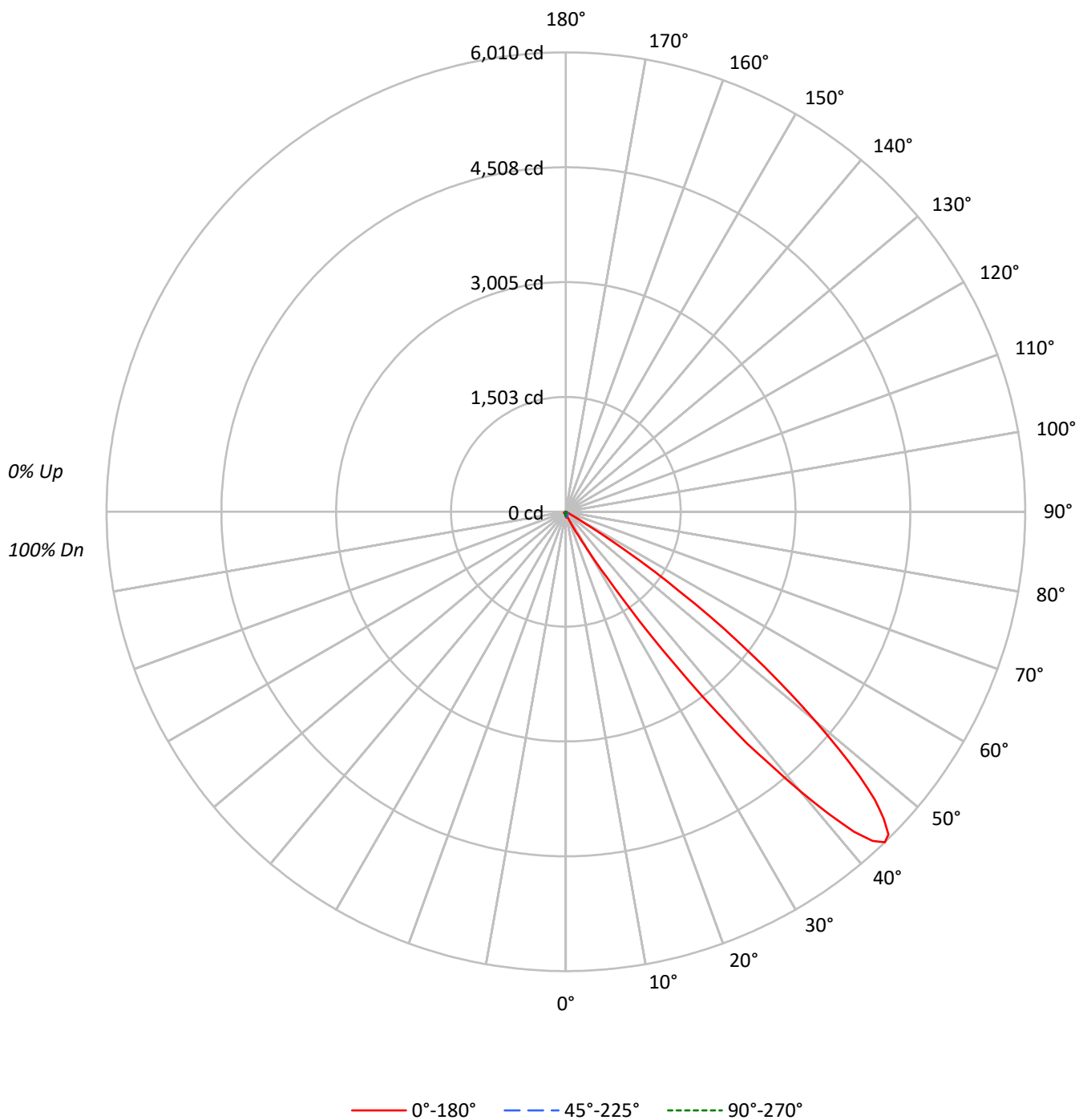
Lumens per Lamp: N/A  
Luminaire Lumens: 671.0 lumens  
Efficiency: N/A  
Efficacy: 45.6 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.7  
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: P1339872

CATALOG NUMBER: P3A09R159030D2WDE010 E3CA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1339872

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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  | 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°  | 13047   | 13047 | 13047 | 13047 | 13047 |
| 5°  | 16201   | 14440 | 11776 | 10302 | 10169 |
| 10° | 15943   | 12358 | 9085  | 8038  | 8194  |
| 15° | 13212   | 8808  | 6538  | 6674  | 7128  |
| 20° | 22962   | 7024  | 4994  | 5787  | 6557  |
| 25° | 51148   | 8420  | 4041  | 5347  | 6146  |
| 30° | 152986  | 10331 | 3570  | 5241  | 6431  |
| 35° | 588869  | 11645 | 3212  | 5381  | 6799  |
| 40° | 1366847 | 10162 | 3063  | 5553  | 7271  |
| 45° | 1851324 | 7691  | 2698  | 6016  | 7877  |
| 50° | 1451620 | 4571  | 2729  | 6379  | 8665  |
| 55° | 696749  | 2064  | 2561  | 6920  | 9481  |
| 60° | 63679   | 307   | 2368  | 7324  | 10569 |
| 65° | 6953    | 0     | 2075  | 7627  | 11467 |
| 70° | 1731    | 0     | 2565  | 8142  | 12438 |
| 75° | 1694    | 593   | 3389  | 9065  | 14149 |
| 80° | 1642    | 1642  | 4167  | 9345  | 15153 |
| 85° | 1761    | 1761  | 6793  | 8303  | 16857 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1851324 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.1    | 0.8       |
| 10°-20°   | 10.6   | 1.6       |
| 20°-30°   | 25.4   | 3.8       |
| 30°-40°   | 138.8  | 20.7      |
| 40°-50°   | 336.1  | 50.1      |
| 50°-60°   | 134.1  | 20.0      |
| 60°-70°   | 11.6   | 1.7       |
| 70°-80°   | 6.5    | 1.0       |
| 80°-90°   | 2.9    | 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°    | 41.0   | 6.1       |
| 0°-40°    | 179.8  | 26.8      |
| 0°-60°    | 650.0  | 96.9      |
| 0°-90°    | 671.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 671.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 60   | 60  | 60  | 60   | 60   |      |
| 5°  | 74   | 66  | 54  | 47   | 46   | 7    |
| 15° | 58   | 39  | 29  | 29   | 31   | 20   |
| 25° | 211  | 35  | 17  | 22   | 25   | 128  |
| 35° | 2200 | 44  | 12  | 20   | 25   | 1554 |
| 45° | 5970 | 25  | 9   | 19   | 25   | 4211 |
| 55° | 1822 | 5   | 7   | 18   | 25   | 1698 |
| 65° | 13   | 0   | 4   | 15   | 22   | 34   |
| 75° | 2    | 1   | 4   | 11   | 17   | 2    |
| 85° | 1    | 1   | 3   | 3    | 7    | 1    |
| 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°    | 59.5   | 59.5   | 59.5   | 59.5   | 59.5   | 59.5   | 59.5   | 59.5   | 59.5  | 59.5  | 59.5 |
| 2.5°  | 66.9   | 66.9   | 67.6   | 66.9   | 66.9   | 66.9   | 66.9   | 66.2   | 66.2  | 66.2  | 64.2 |
| 5°    | 73.6   | 73.6   | 73.6   | 73.6   | 72.9   | 72.9   | 72.9   | 72.3   | 72.3  | 71.6  | 65.6 |
| 7.5°  | 76.3   | 76.3   | 75.6   | 75.6   | 74.9   | 74.9   | 74.3   | 73.6   | 72.9  | 72.3  | 62.9 |
| 10°   | 71.6   | 71.6   | 71.6   | 70.9   | 70.9   | 70.3   | 69.6   | 68.9   | 68.2  | 66.9  | 55.5 |
| 12.5° | 63.6   | 63.6   | 64.2   | 63.6   | 62.9   | 62.2   | 60.9   | 60.2   | 59.5  | 58.2  | 46.2 |
| 15°   | 58.2   | 58.2   | 58.2   | 57.5   | 56.9   | 55.5   | 54.9   | 53.5   | 52.9  | 50.8  | 38.8 |
| 17.5° | 74.3   | 74.3   | 73.6   | 72.3   | 69.6   | 67.6   | 64.2   | 61.6   | 58.2  | 54.2  | 33.5 |
| 20°   | 98.4   | 98.4   | 97.0   | 95.7   | 92.3   | 89.0   | 83.6   | 78.9   | 73.6  | 68.9  | 30.1 |
| 22.5° | 142.5  | 144.5  | 140.5  | 135.8  | 131.1  | 123.1  | 115.7  | 108.4  | 99.0  | 91.0  | 30.8 |
| 25°   | 211.4  | 213.4  | 211.4  | 200.7  | 192.0  | 181.3  | 167.3  | 152.5  | 136.5 | 121.8 | 34.8 |
| 27.5° | 342.6  | 343.9  | 340.5  | 314.5  | 300.4  | 272.3  | 247.5  | 223.5  | 196.7 | 169.9 | 38.1 |
| 30°   | 604.2  | 604.8  | 583.4  | 531.2  | 485.1  | 423.5  | 371.3  | 321.1  | 279.0 | 236.2 | 40.8 |
| 31°   | 795.5  | 776.8  | 731.3  | 668.4  | 594.8  | 511.8  | 440.2  | 375.3  | 312.4 | 266.3 | 41.5 |
| 32°   | 1010.3 | 1007.6 | 932.0  | 822.9  | 724.6  | 620.9  | 513.2  | 430.2  | 357.9 | 295.1 | 42.2 |
| 33°   | 1294.6 | 1296.0 | 1176.9 | 1048.4 | 887.2  | 748.0  | 606.8  | 493.1  | 406.1 | 329.2 | 43.5 |
| 34°   | 1738.9 | 1634.5 | 1494.7 | 1320.7 | 1101.3 | 891.8  | 708.5  | 566.0  | 449.6 | 362.0 | 43.5 |
| 35°   | 2199.8 | 2094.8 | 1940.9 | 1677.3 | 1376.2 | 1083.2 | 829.6  | 644.3  | 501.8 | 397.4 | 43.5 |
| 36°   | 2716.3 | 2627.4 | 2394.5 | 2058.0 | 1674.0 | 1263.8 | 958.1  | 734.6  | 553.3 | 429.5 | 42.8 |
| 37°   | 3274.3 | 3143.9 | 2885.6 | 2518.3 | 2004.5 | 1518.1 | 1114.6 | 824.3  | 604.8 | 464.3 | 41.5 |
| 38°   | 3841.0 | 3723.3 | 3397.4 | 2952.5 | 2399.2 | 1786.4 | 1271.2 | 910.6  | 652.3 | 490.4 | 39.5 |
| 39°   | 4270.5 | 4206.3 | 3883.2 | 3386.1 | 2714.3 | 2040.6 | 1432.4 | 1002.9 | 702.5 | 516.5 | 37.5 |
| 40°   | 4775.0 | 4671.3 | 4364.9 | 3750.0 | 3087.0 | 2299.5 | 1590.3 | 1084.5 | 744.0 | 537.2 | 35.5 |
| 41°   | 5235.3 | 5104.2 | 4717.5 | 4123.4 | 3385.4 | 2532.4 | 1740.2 | 1168.8 | 777.4 | 549.3 | 34.1 |
| 42°   | 5630.1 | 5477.5 | 5073.4 | 4443.2 | 3634.9 | 2718.4 | 1860.0 | 1229.0 | 808.9 | 559.3 | 32.1 |
| 43°   | 5885.6 | 5753.8 | 5356.4 | 4683.4 | 3848.4 | 2889.0 | 1971.7 | 1291.9 | 828.3 | 566.0 | 29.4 |
| 44°   | 6010.1 | 5876.9 | 5492.2 | 4833.9 | 3979.5 | 2991.3 | 2043.9 | 1335.4 | 849.7 | 574.7 | 27.4 |
| 45°   | 5969.9 | 5834.8 | 5462.8 | 4836.6 | 4020.3 | 3028.1 | 2074.7 | 1354.8 | 861.1 | 582.7 | 24.8 |
| 46°   | 5785.9 | 5690.9 | 5316.3 | 4710.8 | 3942.7 | 2988.6 | 2057.3 | 1340.1 | 857.1 | 582.7 | 22.1 |
| 47°   | 5527.7 | 5419.3 | 5062.7 | 4494.7 | 3754.7 | 2887.0 | 1987.1 | 1295.3 | 832.3 | 569.4 | 19.4 |
| 48°   | 5175.8 | 5083.4 | 4708.8 | 4151.5 | 3466.3 | 2665.5 | 1828.5 | 1222.4 | 793.5 | 543.3 | 16.7 |
| 49°   | 4734.2 | 4605.7 | 4257.2 | 3712.6 | 3090.3 | 2351.0 | 1620.4 | 1099.2 | 731.3 | 506.5 | 14.7 |
| 50°   | 4255.2 | 4096.6 | 3827.6 | 3273.0 | 2701.6 | 2015.8 | 1346.8 | 929.3  | 643.6 | 458.3 | 13.4 |
| 51°   | 3786.2 | 3624.9 | 3368.7 | 2897.0 | 2286.8 | 1672.6 | 1086.5 | 742.0  | 529.9 | 392.1 | 11.4 |
| 52°   | 3299.8 | 3164.6 | 2877.6 | 2506.9 | 1957.6 | 1355.5 | 905.2  | 627.6  | 440.2 | 329.2 | 9.4  |
| 53°   | 2815.4 | 2723.0 | 2450.1 | 2074.7 | 1572.9 | 1107.3 | 739.3  | 537.2  | 384.0 | 281.7 | 7.4  |
| 54°   | 2330.3 | 2229.3 | 2021.9 | 1687.3 | 1267.8 | 873.8  | 626.9  | 449.6  | 333.2 | 245.5 | 6.7  |
| 55°   | 1822.5 | 1770.3 | 1579.0 | 1286.6 | 960.8  | 697.2  | 508.5  | 386.7  | 279.0 | 205.4 | 5.4  |
| 56°   | 1403.7 | 1344.8 | 1170.2 | 933.3  | 713.9  | 545.9  | 411.5  | 315.8  | 236.2 | 171.9 | 4.0  |
| 57°   | 919.3  | 859.1  | 743.3  | 651.7  | 519.9  | 398.1  | 314.5  | 248.9  | 192.0 | 142.5 | 3.3  |
| 58°   | 543.3  | 488.4  | 470.3  | 401.4  | 346.6  | 270.3  | 232.2  | 185.3  | 141.8 | 112.4 | 2.0  |
| 59°   | 249.6  | 253.6  | 225.5  | 211.4  | 192.0  | 171.9  | 141.2  | 123.8  | 97.0  | 81.0  | 1.3  |
| 60°   | 145.2  | 137.2  | 133.8  | 119.8  | 106.4  | 94.3   | 85.0   | 74.9   | 60.9  | 52.2  | 0.7  |
| 62.5° | 49.5   | 47.5   | 48.8   | 44.2   | 41.5   | 40.1   | 36.8   | 31.4   | 26.1  | 21.4  | 0.0  |
| 65°   | 13.4   | 13.4   | 12.7   | 12.0   | 11.4   | 10.7   | 10.0   | 8.7    | 8.0   | 6.7   | 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° | 4.7 | 4.7  | 4.0 | 4.0  | 3.3 | 3.3   | 2.7 | 2.7   | 2.0 | 2.0   | 0.0 |
| 70°   | 2.7 | 2.7  | 2.7 | 2.0  | 2.0 | 2.0   | 1.3 | 1.3   | 1.3 | 0.7   | 0.0 |
| 72.5° | 2.0 | 2.0  | 2.0 | 2.0  | 2.0 | 2.0   | 1.3 | 1.3   | 1.3 | 0.7   | 0.7 |
| 75°   | 2.0 | 2.0  | 2.0 | 1.3  | 1.3 | 1.3   | 1.3 | 1.3   | 1.3 | 1.3   | 0.7 |
| 77.5° | 1.3 | 1.3  | 1.3 | 1.3  | 1.3 | 1.3   | 1.3 | 1.3   | 1.3 | 1.3   | 1.3 |
| 80°   | 1.3 | 1.3  | 1.3 | 1.3  | 1.3 | 1.3   | 1.3 | 1.3   | 1.3 | 0.7   | 1.3 |
| 82.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7   | 1.3 |
| 85°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.7 |
| 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°    | 59.5  | 59.5 | 59.5   | 59.5 | 59.5   | 59.5 |
| 2.5°  | 61.6  | 58.9 | 55.5   | 53.5 | 52.9   | 52.2 |
| 5°    | 58.9  | 53.5 | 49.5   | 46.8 | 46.2   | 46.2 |
| 7.5°  | 52.9  | 46.8 | 42.8   | 41.5 | 40.8   | 40.8 |
| 10°   | 46.2  | 40.8 | 37.5   | 36.1 | 36.8   | 36.8 |
| 12.5° | 38.8  | 34.1 | 32.8   | 32.8 | 33.5   | 34.1 |
| 15°   | 31.4  | 28.8 | 28.8   | 29.4 | 30.8   | 31.4 |
| 17.5° | 26.1  | 24.8 | 25.4   | 26.8 | 28.1   | 29.4 |
| 20°   | 21.4  | 21.4 | 22.7   | 24.8 | 26.8   | 28.1 |
| 22.5° | 18.1  | 18.7 | 20.7   | 22.7 | 25.4   | 26.8 |
| 25°   | 15.4  | 16.7 | 18.7   | 22.1 | 24.8   | 25.4 |
| 27.5° | 13.4  | 15.4 | 18.1   | 21.4 | 24.1   | 25.4 |
| 30°   | 11.4  | 14.1 | 17.4   | 20.7 | 24.1   | 25.4 |
| 31°   | 10.7  | 13.4 | 16.7   | 20.7 | 24.1   | 25.4 |
| 32°   | 10.0  | 13.4 | 16.7   | 20.7 | 24.1   | 25.4 |
| 33°   | 9.4   | 12.7 | 16.7   | 20.1 | 24.1   | 25.4 |
| 34°   | 8.7   | 12.7 | 16.7   | 20.7 | 24.1   | 25.4 |
| 35°   | 8.0   | 12.0 | 16.1   | 20.1 | 23.4   | 25.4 |
| 36°   | 7.4   | 12.0 | 16.1   | 20.1 | 24.1   | 25.4 |
| 37°   | 6.7   | 12.0 | 16.1   | 20.1 | 23.4   | 25.4 |
| 38°   | 6.7   | 11.4 | 15.4   | 20.1 | 23.4   | 25.4 |
| 39°   | 6.0   | 10.7 | 15.4   | 20.1 | 23.4   | 25.4 |
| 40°   | 5.4   | 10.7 | 14.7   | 19.4 | 23.4   | 25.4 |
| 41°   | 4.7   | 10.0 | 14.7   | 19.4 | 23.4   | 25.4 |
| 42°   | 4.0   | 10.0 | 14.7   | 19.4 | 23.4   | 25.4 |
| 43°   | 3.3   | 9.4  | 14.1   | 19.4 | 23.4   | 25.4 |
| 44°   | 3.3   | 9.4  | 14.1   | 19.4 | 23.4   | 25.4 |
| 45°   | 2.7   | 8.7  | 13.4   | 19.4 | 23.4   | 25.4 |
| 46°   | 2.7   | 8.7  | 13.4   | 18.7 | 23.4   | 25.4 |
| 47°   | 2.0   | 8.7  | 13.4   | 18.7 | 23.4   | 25.4 |
| 48°   | 2.0   | 8.0  | 13.4   | 18.7 | 23.4   | 25.4 |
| 49°   | 1.3   | 8.0  | 13.4   | 18.7 | 23.4   | 25.4 |
| 50°   | 1.3   | 8.0  | 12.7   | 18.7 | 23.4   | 25.4 |
| 51°   | 1.3   | 8.0  | 12.7   | 18.7 | 23.4   | 25.4 |
| 52°   | 1.3   | 7.4  | 12.7   | 18.7 | 23.4   | 25.4 |
| 53°   | 1.3   | 7.4  | 12.7   | 18.7 | 23.4   | 25.4 |
| 54°   | 1.3   | 7.4  | 12.0   | 18.7 | 23.4   | 25.4 |
| 55°   | 1.3   | 6.7  | 12.0   | 18.1 | 23.4   | 24.8 |
| 56°   | 1.3   | 6.7  | 12.0   | 18.1 | 23.4   | 24.8 |
| 57°   | 1.3   | 6.7  | 11.4   | 18.1 | 23.4   | 24.8 |
| 58°   | 1.3   | 6.0  | 11.4   | 17.4 | 22.7   | 24.8 |
| 59°   | 1.3   | 6.0  | 10.7   | 17.4 | 22.7   | 24.1 |
| 60°   | 1.3   | 5.4  | 10.7   | 16.7 | 22.1   | 24.1 |
| 62.5° | 1.3   | 4.7  | 9.4    | 16.1 | 21.4   | 22.7 |
| 65°   | 1.3   | 4.0  | 8.7    | 14.7 | 20.7   | 22.1 |





TEST NUMBER: P1339872

CATALOG NUMBER: P3A09R159030D2WDE010 E3CA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.3   | 4.0 | 8.0    | 14.1 | 19.4   | 21.4 |
| 70°   | 1.3   | 4.0 | 7.4    | 12.7 | 18.7   | 19.4 |
| 72.5° | 2.0   | 4.0 | 6.7    | 12.0 | 17.4   | 18.1 |
| 75°   | 2.7   | 4.0 | 6.0    | 10.7 | 16.1   | 16.7 |
| 77.5° | 2.7   | 4.0 | 5.4    | 9.4  | 14.1   | 14.7 |
| 80°   | 2.7   | 3.3 | 4.7    | 7.4  | 11.4   | 12.0 |
| 82.5° | 2.7   | 3.3 | 3.3    | 6.0  | 8.7    | 9.4  |
| 85°   | 2.0   | 2.7 | 2.7    | 3.3  | 6.0    | 6.7  |
| 87.5° | 2.0   | 2.7 | 1.3    | 2.0  | 2.7    | 2.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)