

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: P1340055

Luminaire Tested: P3A09R159840DE010 E3CA451MMS

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340055  
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: P3A09R159840DE010 E3CA451MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3CA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

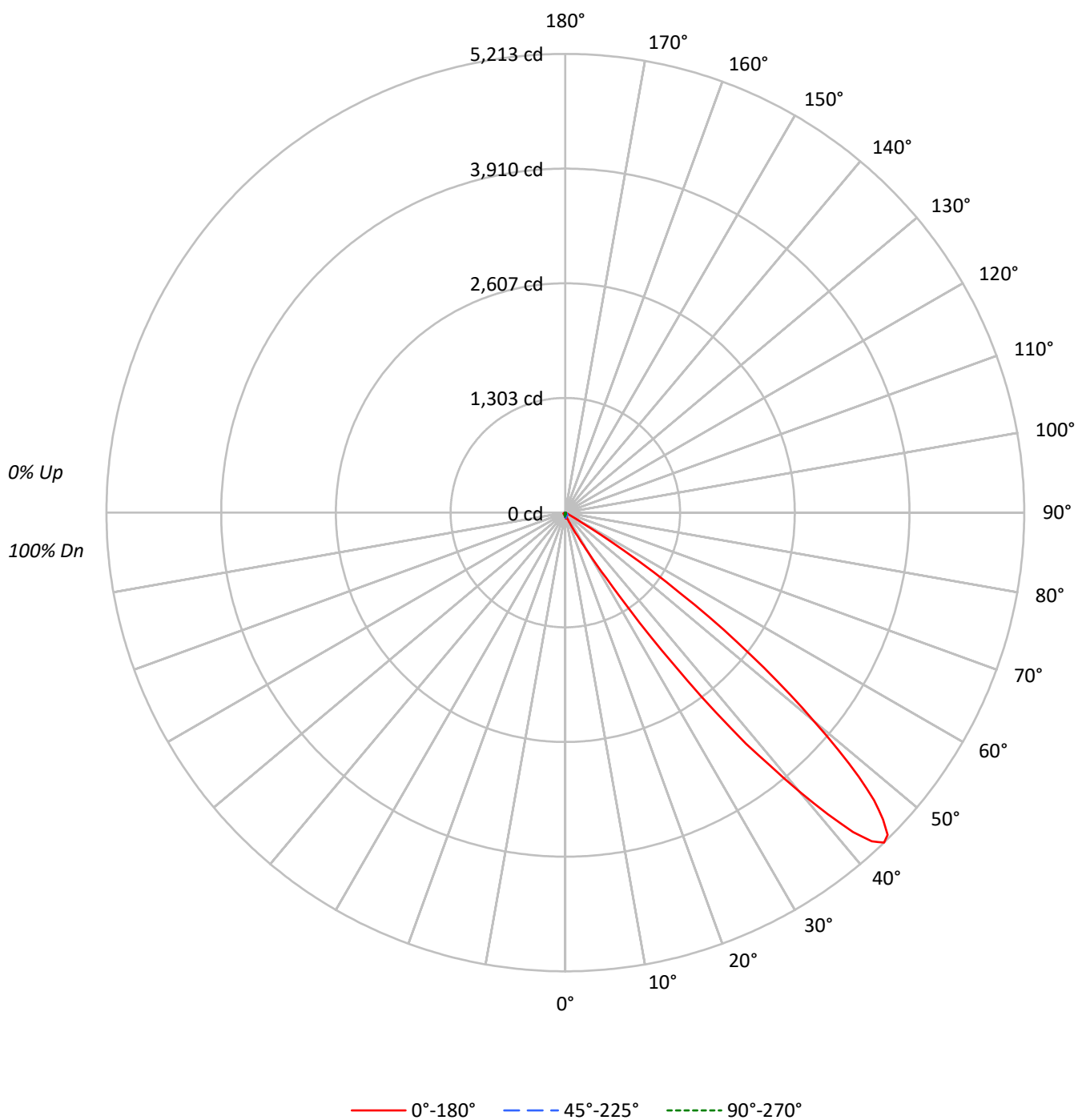
Lumens per Lamp: N/A  
Luminaire Lumens: 582.0 lumens  
Efficiency: N/A  
Efficacy: 52.9 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.08  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1340055

CATALOG NUMBER: P3A09R159840DE010 E3CA451MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1340055

CATALOG NUMBER: P3A09R159840DE010 E3CA451MMS

**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°  | 11315   | 11315 | 11315 | 11315 | 11315 |
| 5°  | 14044   | 12525 | 10213 | 8937  | 8805  |
| 10° | 13827   | 10732 | 7882  | 6969  | 7103  |
| 15° | 11464   | 7650  | 5675  | 5789  | 6198  |
| 20° | 19905   | 6091  | 4340  | 5017  | 5694  |
| 25° | 44374   | 7307  | 3508  | 4645  | 5347  |
| 30° | 132679  | 8963  | 3089  | 4558  | 5596  |
| 35° | 510784  | 10092 | 2784  | 4658  | 5916  |
| 40° | 1185564 | 8817  | 2662  | 4809  | 6326  |
| 45° | 1605779 | 6667  | 2326  | 5210  | 6853  |
| 50° | 1259080 | 3957  | 2388  | 5526  | 7539  |
| 55° | 604346  | 1759  | 2217  | 6002  | 8220  |
| 60° | 55215   | 263   | 2017  | 6359  | 9166  |
| 65° | 6019    | 0     | 1816  | 6641  | 9962  |
| 70° | 1475    | 0     | 2244  | 7052  | 10771 |
| 75° | 1440    | 508   | 2965  | 7879  | 12285 |
| 80° | 1515    | 1515  | 3662  | 8082  | 13133 |
| 85° | 1510    | 1510  | 5787  | 7296  | 14593 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1605779 cd/sqm

TEST NUMBER: P1340055

CATALOG NUMBER: P3A09R159840DE010 E3CA451MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.4    | 0.8       |
| 10°-20°   | 9.2    | 1.6       |
| 20°-30°   | 22.0   | 3.8       |
| 30°-40°   | 120.4  | 20.7      |
| 40°-50°   | 291.5  | 50.1      |
| 50°-60°   | 116.3  | 20.0      |
| 60°-70°   | 10.1   | 1.7       |
| 70°-80°   | 5.7    | 1.0       |
| 80°-90°   | 2.5    | 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°    | 35.6   | 6.1       |
| 0°-40°    | 156.0  | 26.8      |
| 0°-60°    | 563.8  | 96.9      |
| 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°  | 52   | 52  | 52  | 52   | 52   |      |
| 5°  | 64   | 57  | 46  | 41   | 40   | 6    |
| 15° | 50   | 34  | 25  | 26   | 27   | 18   |
| 25° | 183  | 30  | 14  | 19   | 22   | 111  |
| 35° | 1908 | 38  | 10  | 17   | 22   | 1348 |
| 45° | 5178 | 22  | 8   | 17   | 22   | 3653 |
| 55° | 1581 | 5   | 6   | 16   | 22   | 1473 |
| 65° | 12   | 0   | 4   | 13   | 19   | 30   |
| 75° | 2    | 1   | 4   | 9    | 14   | 2    |
| 85° | 1    | 1   | 2   | 3    | 6    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1340055

CATALOG NUMBER: P3A09R159840DE010 E3CA451MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6   | 51.6  | 51.6  | 51.6 |
| 2.5°  | 58.0   | 58.0   | 58.6   | 58.0   | 58.0   | 58.0   | 58.0   | 57.5   | 57.5  | 57.5  | 55.7 |
| 5°    | 63.8   | 63.8   | 63.8   | 63.8   | 63.3   | 63.3   | 63.3   | 62.7   | 62.7  | 62.1  | 56.9 |
| 7.5°  | 66.2   | 66.2   | 65.6   | 65.6   | 65.0   | 65.0   | 64.4   | 63.8   | 63.3  | 62.7  | 54.5 |
| 10°   | 62.1   | 62.1   | 62.1   | 61.5   | 61.5   | 60.9   | 60.4   | 59.8   | 59.2  | 58.0  | 48.2 |
| 12.5° | 55.1   | 55.1   | 55.7   | 55.1   | 54.5   | 54.0   | 52.8   | 52.2   | 51.6  | 50.5  | 40.0 |
| 15°   | 50.5   | 50.5   | 50.5   | 49.9   | 49.3   | 48.2   | 47.6   | 46.4   | 45.8  | 44.1  | 33.7 |
| 17.5° | 64.4   | 64.4   | 63.8   | 62.7   | 60.4   | 58.6   | 55.7   | 53.4   | 50.5  | 47.0  | 29.0 |
| 20°   | 85.3   | 85.3   | 84.1   | 83.0   | 80.1   | 77.2   | 72.5   | 68.5   | 63.8  | 59.8  | 26.1 |
| 22.5° | 123.6  | 125.3  | 121.9  | 117.8  | 113.7  | 106.8  | 100.4  | 94.0   | 85.9  | 78.9  | 26.7 |
| 25°   | 183.4  | 185.1  | 183.4  | 174.1  | 166.5  | 157.3  | 145.1  | 132.3  | 118.4 | 105.6 | 30.2 |
| 27.5° | 297.1  | 298.3  | 295.4  | 272.7  | 260.6  | 236.2  | 214.7  | 193.8  | 170.6 | 147.4 | 33.1 |
| 30°   | 524.0  | 524.6  | 506.0  | 460.8  | 420.7  | 367.3  | 322.1  | 278.5  | 242.0 | 204.8 | 35.4 |
| 31°   | 690.0  | 673.7  | 634.3  | 579.7  | 515.9  | 443.9  | 381.8  | 325.6  | 271.0 | 231.0 | 36.0 |
| 32°   | 876.3  | 873.9  | 808.4  | 713.8  | 628.5  | 538.5  | 445.1  | 373.1  | 310.5 | 255.9 | 36.6 |
| 33°   | 1122.9 | 1124.1 | 1020.8 | 909.3  | 769.5  | 648.8  | 526.3  | 427.7  | 352.2 | 285.5 | 37.7 |
| 34°   | 1508.2 | 1417.7 | 1296.4 | 1145.5 | 955.2  | 773.6  | 614.5  | 490.9  | 390.0 | 313.9 | 37.7 |
| 35°   | 1908.1 | 1816.9 | 1683.5 | 1454.8 | 1193.7 | 939.5  | 719.6  | 558.8  | 435.2 | 344.7 | 37.7 |
| 36°   | 2356.1 | 2278.9 | 2076.9 | 1785.0 | 1451.9 | 1096.2 | 831.0  | 637.2  | 479.9 | 372.6 | 37.1 |
| 37°   | 2840.0 | 2726.9 | 2502.9 | 2184.3 | 1738.6 | 1316.7 | 966.8  | 714.9  | 524.6 | 402.7 | 36.0 |
| 38°   | 3331.6 | 3229.4 | 2946.8 | 2560.9 | 2081.0 | 1549.4 | 1102.6 | 789.8  | 565.8 | 425.4 | 34.2 |
| 39°   | 3704.1 | 3648.4 | 3368.1 | 2936.9 | 2354.3 | 1769.9 | 1242.4 | 869.9  | 609.3 | 448.0 | 32.5 |
| 40°   | 4141.7 | 4051.7 | 3785.9 | 3252.6 | 2677.5 | 1994.5 | 1379.4 | 940.7  | 645.3 | 466.0 | 30.8 |
| 41°   | 4540.9 | 4427.2 | 4091.8 | 3576.4 | 2936.4 | 2196.5 | 1509.4 | 1013.8 | 674.3 | 476.4 | 29.6 |
| 42°   | 4883.3 | 4751.0 | 4400.5 | 3853.8 | 3152.8 | 2357.8 | 1613.3 | 1066.0 | 701.6 | 485.1 | 27.9 |
| 43°   | 5105.0 | 4990.7 | 4646.0 | 4062.2 | 3337.9 | 2505.8 | 1710.2 | 1120.6 | 718.4 | 490.9 | 25.5 |
| 44°   | 5212.9 | 5097.4 | 4763.8 | 4192.7 | 3451.7 | 2594.6 | 1772.8 | 1158.3 | 737.0 | 498.5 | 23.8 |
| 45°   | 5178.1 | 5060.9 | 4738.2 | 4195.1 | 3487.1 | 2626.5 | 1799.5 | 1175.1 | 746.9 | 505.4 | 21.5 |
| 46°   | 5018.5 | 4936.1 | 4611.1 | 4086.0 | 3419.8 | 2592.2 | 1784.4 | 1162.4 | 743.4 | 505.4 | 19.2 |
| 47°   | 4794.5 | 4700.5 | 4391.2 | 3898.5 | 3256.7 | 2504.0 | 1723.5 | 1123.5 | 721.9 | 493.8 | 16.8 |
| 48°   | 4489.3 | 4409.2 | 4084.2 | 3600.8 | 3006.6 | 2312.0 | 1586.0 | 1060.2 | 688.2 | 471.2 | 14.5 |
| 49°   | 4106.3 | 3994.8 | 3692.5 | 3220.1 | 2680.4 | 2039.2 | 1405.5 | 953.4  | 634.3 | 439.3 | 12.8 |
| 50°   | 3690.8 | 3553.2 | 3319.9 | 2838.9 | 2343.3 | 1748.5 | 1168.2 | 806.0  | 558.3 | 397.5 | 11.6 |
| 51°   | 3284.0 | 3144.1 | 2921.9 | 2512.7 | 1983.5 | 1450.8 | 942.4  | 643.6  | 459.6 | 340.1 | 9.9  |
| 52°   | 2862.1 | 2744.9 | 2495.9 | 2174.4 | 1698.0 | 1175.7 | 785.2  | 544.3  | 381.8 | 285.5 | 8.1  |
| 53°   | 2441.9 | 2361.9 | 2125.1 | 1799.5 | 1364.3 | 960.4  | 641.2  | 466.0  | 333.1 | 244.3 | 6.4  |
| 54°   | 2021.2 | 1933.6 | 1753.7 | 1463.5 | 1099.7 | 757.9  | 543.7  | 390.0  | 289.0 | 213.0 | 5.8  |
| 55°   | 1580.8 | 1535.5 | 1369.5 | 1115.9 | 833.3  | 604.7  | 441.0  | 335.4  | 242.0 | 178.2 | 4.6  |
| 56°   | 1217.5 | 1166.4 | 1015.0 | 809.5  | 619.2  | 473.5  | 356.9  | 273.9  | 204.8 | 149.1 | 3.5  |
| 57°   | 797.3  | 745.1  | 644.7  | 565.2  | 450.9  | 345.3  | 272.7  | 215.9  | 166.5 | 123.6 | 2.9  |
| 58°   | 471.2  | 423.6  | 408.0  | 348.2  | 300.6  | 234.4  | 201.4  | 160.7  | 123.0 | 97.5  | 1.7  |
| 59°   | 216.5  | 219.9  | 195.6  | 183.4  | 166.5  | 149.1  | 122.4  | 107.4  | 84.1  | 70.2  | 1.2  |
| 60°   | 125.9  | 119.0  | 116.1  | 103.9  | 92.3   | 81.8   | 73.7   | 65.0   | 52.8  | 45.3  | 0.6  |
| 62.5° | 42.9   | 41.2   | 42.4   | 38.3   | 36.0   | 34.8   | 31.9   | 27.3   | 22.6  | 18.6  | 0.0  |
| 65°   | 11.6   | 11.6   | 11.0   | 10.4   | 9.9    | 9.3    | 8.7    | 7.5    | 7.0   | 5.8   | 0.0  |



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CATALOG NUMBER: P3A09R159840DE010 E3CA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 4.1 | 4.1  | 3.5 | 3.5  | 2.9 | 2.9   | 2.3 | 2.3   | 1.7 | 1.7   | 0.0 |
| 70°   | 2.3 | 2.3  | 2.3 | 1.7  | 1.7 | 1.7   | 1.2 | 1.2   | 1.2 | 0.6   | 0.0 |
| 72.5° | 1.7 | 1.7  | 1.7 | 1.7  | 1.7 | 1.7   | 1.2 | 1.2   | 1.2 | 0.6   | 0.6 |
| 75°   | 1.7 | 1.7  | 1.7 | 1.2  | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 0.6 |
| 77.5° | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 80°   | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 0.6   | 1.2 |
| 82.5° | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 1.2 |
| 85°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.6 |
| 90°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

TEST NUMBER: P1340055

CATALOG NUMBER: P3A09R159840DE010 E3CA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 51.6  | 51.6 | 51.6   | 51.6 | 51.6   | 51.6 |
| 2.5°  | 53.4  | 51.1 | 48.2   | 46.4 | 45.8   | 45.3 |
| 5°    | 51.1  | 46.4 | 42.9   | 40.6 | 40.0   | 40.0 |
| 7.5°  | 45.8  | 40.6 | 37.1   | 36.0 | 35.4   | 35.4 |
| 10°   | 40.0  | 35.4 | 32.5   | 31.3 | 31.9   | 31.9 |
| 12.5° | 33.7  | 29.6 | 28.4   | 28.4 | 29.0   | 29.6 |
| 15°   | 27.3  | 25.0 | 25.0   | 25.5 | 26.7   | 27.3 |
| 17.5° | 22.6  | 21.5 | 22.1   | 23.2 | 24.4   | 25.5 |
| 20°   | 18.6  | 18.6 | 19.7   | 21.5 | 23.2   | 24.4 |
| 22.5° | 15.7  | 16.2 | 18.0   | 19.7 | 22.1   | 23.2 |
| 25°   | 13.3  | 14.5 | 16.2   | 19.2 | 21.5   | 22.1 |
| 27.5° | 11.6  | 13.3 | 15.7   | 18.6 | 20.9   | 22.1 |
| 30°   | 9.9   | 12.2 | 15.1   | 18.0 | 20.9   | 22.1 |
| 31°   | 9.3   | 11.6 | 14.5   | 18.0 | 20.9   | 22.1 |
| 32°   | 8.7   | 11.6 | 14.5   | 18.0 | 20.9   | 22.1 |
| 33°   | 8.1   | 11.0 | 14.5   | 17.4 | 20.9   | 22.1 |
| 34°   | 7.5   | 11.0 | 14.5   | 18.0 | 20.9   | 22.1 |
| 35°   | 7.0   | 10.4 | 13.9   | 17.4 | 20.3   | 22.1 |
| 36°   | 6.4   | 10.4 | 13.9   | 17.4 | 20.9   | 22.1 |
| 37°   | 5.8   | 10.4 | 13.9   | 17.4 | 20.3   | 22.1 |
| 38°   | 5.8   | 9.9  | 13.3   | 17.4 | 20.3   | 22.1 |
| 39°   | 5.2   | 9.3  | 13.3   | 17.4 | 20.3   | 22.1 |
| 40°   | 4.6   | 9.3  | 12.8   | 16.8 | 20.3   | 22.1 |
| 41°   | 4.1   | 8.7  | 12.8   | 16.8 | 20.3   | 22.1 |
| 42°   | 3.5   | 8.7  | 12.8   | 16.8 | 20.3   | 22.1 |
| 43°   | 2.9   | 8.1  | 12.2   | 16.8 | 20.3   | 22.1 |
| 44°   | 2.9   | 8.1  | 12.2   | 16.8 | 20.3   | 22.1 |
| 45°   | 2.3   | 7.5  | 11.6   | 16.8 | 20.3   | 22.1 |
| 46°   | 2.3   | 7.5  | 11.6   | 16.2 | 20.3   | 22.1 |
| 47°   | 1.7   | 7.5  | 11.6   | 16.2 | 20.3   | 22.1 |
| 48°   | 1.7   | 7.0  | 11.6   | 16.2 | 20.3   | 22.1 |
| 49°   | 1.2   | 7.0  | 11.6   | 16.2 | 20.3   | 22.1 |
| 50°   | 1.2   | 7.0  | 11.0   | 16.2 | 20.3   | 22.1 |
| 51°   | 1.2   | 7.0  | 11.0   | 16.2 | 20.3   | 22.1 |
| 52°   | 1.2   | 6.4  | 11.0   | 16.2 | 20.3   | 22.1 |
| 53°   | 1.2   | 6.4  | 11.0   | 16.2 | 20.3   | 22.1 |
| 54°   | 1.2   | 6.4  | 10.4   | 16.2 | 20.3   | 22.1 |
| 55°   | 1.2   | 5.8  | 10.4   | 15.7 | 20.3   | 21.5 |
| 56°   | 1.2   | 5.8  | 10.4   | 15.7 | 20.3   | 21.5 |
| 57°   | 1.2   | 5.8  | 9.9    | 15.7 | 20.3   | 21.5 |
| 58°   | 1.2   | 5.2  | 9.9    | 15.1 | 19.7   | 21.5 |
| 59°   | 1.2   | 5.2  | 9.3    | 15.1 | 19.7   | 20.9 |
| 60°   | 1.2   | 4.6  | 9.3    | 14.5 | 19.2   | 20.9 |
| 62.5° | 1.2   | 4.1  | 8.1    | 13.9 | 18.6   | 19.7 |
| 65°   | 1.2   | 3.5  | 7.5    | 12.8 | 18.0   | 19.2 |



TEST NUMBER: P1340055

CATALOG NUMBER: P3A09R159840DE010 E3CA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.2   | 3.5 | 7.0    | 12.2 | 16.8   | 18.6 |
| 70°   | 1.2   | 3.5 | 6.4    | 11.0 | 16.2   | 16.8 |
| 72.5° | 1.7   | 3.5 | 5.8    | 10.4 | 15.1   | 15.7 |
| 75°   | 2.3   | 3.5 | 5.2    | 9.3  | 13.9   | 14.5 |
| 77.5° | 2.3   | 3.5 | 4.6    | 8.1  | 12.2   | 12.8 |
| 80°   | 2.3   | 2.9 | 4.1    | 6.4  | 9.9    | 10.4 |
| 82.5° | 2.3   | 2.9 | 2.9    | 5.2  | 7.5    | 8.1  |
| 85°   | 1.7   | 2.3 | 2.3    | 2.9  | 5.2    | 5.8  |
| 87.5° | 1.7   | 2.3 | 1.2    | 1.7  | 2.3    | 2.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)