

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: P1317280

Luminaire Tested: P3SQAS17R359830DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R359830DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

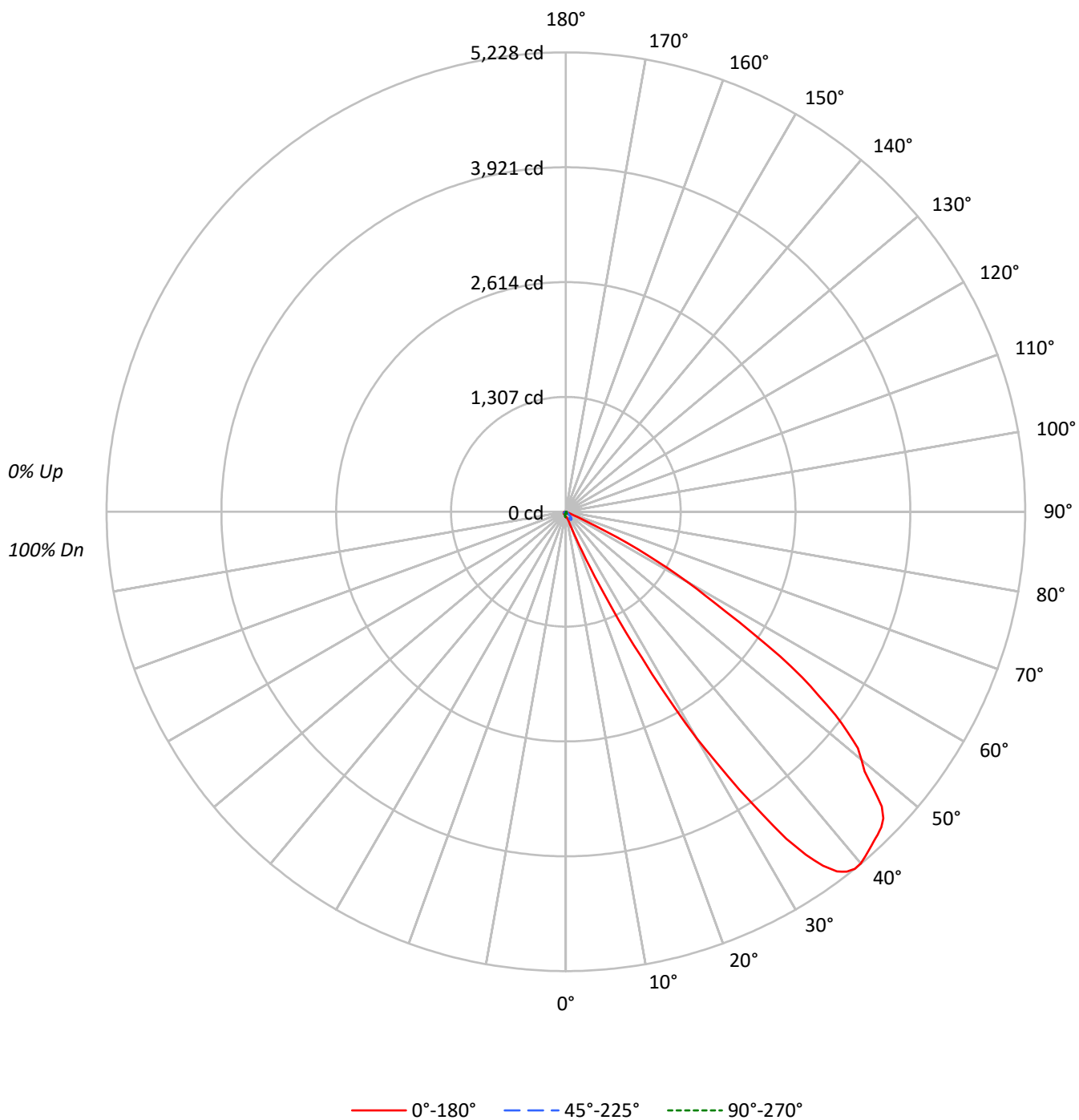
Lumens per Lamp: N/A  
Luminaire Lumens: 1302.0 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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: P1317280

CATALOG NUMBER: P3SQAS17R359830DE010 E3SQCA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1317280

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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   | 100 | 93  | 86  | 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  | 52  | 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  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  |    |    |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |    |    |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 10316   | 10316 | 10316 | 10316 | 10316 |
| 5°  | 11168   | 10978 | 10165 | 9145  | 8938  |
| 10° | 11717   | 10685 | 9041  | 7817  | 7817  |
| 15° | 16760   | 10484 | 7328  | 6704  | 6918  |
| 20° | 42007   | 11198 | 5810  | 5810  | 6470  |
| 25° | 194986  | 14290 | 4466  | 5359  | 6024  |
| 30° | 592739  | 19409 | 3500  | 4912  | 6085  |
| 35° | 1001775 | 22496 | 2964  | 4688  | 5929  |
| 40° | 1174283 | 22190 | 2383  | 4766  | 6340  |
| 45° | 1236649 | 15734 | 1997  | 5163  | 6868  |
| 50° | 1177127 | 9458  | 1902  | 5359  | 7556  |
| 55° | 986387  | 3873  | 2132  | 6005  | 8828  |
| 60° | 552215  | 827   | 2446  | 6889  | 9713  |
| 65° | 95317   | 489   | 2404  | 7661  | 11003 |
| 70° | 1762    | 604   | 2971  | 8308  | 12438 |
| 75° | 1597    | 799   | 3926  | 9382  | 14107 |
| 80° | 1190    | 1190  | 4661  | 10513 | 16365 |
| 85° | 0       | 2371  | 9287  | 11659 | 18575 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1245423 cd/sqm

TEST NUMBER: P1317280

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.4    | 0.4       |
| 10°-20°   | 15.3   | 1.2       |
| 20°-30°   | 79.9   | 6.1       |
| 30°-40°   | 345.0  | 26.5      |
| 40°-50°   | 492.1  | 37.8      |
| 50°-60°   | 304.8  | 23.4      |
| 60°-70°   | 46.4   | 3.6       |
| 70°-80°   | 8.7    | 0.7       |
| 80°-90°   | 4.3    | 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°    | 100.6  | 7.7       |
| 0°-40°    | 445.7  | 34.2      |
| 0°-60°    | 1242.6 | 95.4      |
| 0°-90°    | 1302.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1302.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 60   | 60  | 60  | 60   | 60   |      |
| 5°  | 65   | 64  | 59  | 53   | 52   | 6    |
| 15° | 94   | 59  | 41  | 38   | 39   | 34   |
| 25° | 1026 | 75  | 24  | 28   | 32   | 614  |
| 35° | 4765 | 107 | 14  | 22   | 28   | 2861 |
| 45° | 5077 | 65  | 8   | 21   | 28   | 3836 |
| 55° | 3285 | 13  | 7   | 20   | 29   | 2798 |
| 65° | 234  | 1   | 6   | 19   | 27   | 478  |
| 75° | 2    | 1   | 6   | 14   | 21   | 3    |
| 85° | 0    | 1   | 5   | 6    | 9    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--------|
| 0°    | 59.9   | 59.9   | 59.9   | 59.9   | 59.9   | 59.9   | 59.9  | 59.9  | 59.9  | 59.9 | 59.9   |
| 2.5°  | 62.3   | 62.3   | 62.3   | 62.3   | 62.3   | 62.3   | 62.3  | 62.3  | 62.3  | 59.9 | 58.8   |
| 5°    | 64.6   | 64.6   | 63.5   | 63.5   | 63.5   | 63.5   | 63.5  | 63.5  | 61.1  | 58.8 | 55.2   |
| 7.5°  | 65.8   | 65.8   | 64.6   | 64.6   | 64.6   | 64.6   | 63.5  | 62.3  | 59.9  | 55.2 | 51.7   |
| 10°   | 67.0   | 67.0   | 67.0   | 67.0   | 65.8   | 64.6   | 63.5  | 61.1  | 57.6  | 51.7 | 48.2   |
| 12.5° | 75.2   | 75.2   | 74.0   | 71.7   | 69.3   | 67.0   | 64.6  | 59.9  | 52.9  | 47.0 | 43.5   |
| 15°   | 94.0   | 92.9   | 90.5   | 87.0   | 82.3   | 76.4   | 71.7  | 58.8  | 48.2  | 41.1 | 38.8   |
| 17.5° | 131.6  | 129.3  | 125.8  | 114.0  | 103.4  | 92.9   | 83.4  | 58.8  | 43.5  | 36.4 | 34.1   |
| 20°   | 229.2  | 230.4  | 205.7  | 177.5  | 154.0  | 128.1  | 104.6 | 61.1  | 38.8  | 31.7 | 30.6   |
| 22.5° | 478.4  | 459.6  | 400.8  | 332.6  | 253.9  | 196.3  | 148.1 | 67.0  | 34.1  | 27.0 | 27.0   |
| 25°   | 1026.1 | 954.4  | 812.2  | 613.5  | 432.5  | 306.8  | 215.1 | 75.2  | 30.6  | 23.5 | 24.7   |
| 27.5° | 1873.5 | 1808.8 | 1523.2 | 1147.1 | 761.6  | 463.1  | 291.5 | 85.8  | 27.0  | 20.0 | 22.3   |
| 30°   | 2980.6 | 2802.0 | 2429.4 | 1880.5 | 1272.9 | 708.7  | 391.4 | 97.6  | 22.3  | 17.6 | 21.2   |
| 31°   | 3326.2 | 3243.9 | 2790.2 | 2175.5 | 1491.5 | 841.5  | 433.7 | 101.1 | 21.2  | 17.6 | 20.0   |
| 32°   | 3736.4 | 3590.6 | 3184.0 | 2498.8 | 1713.6 | 960.2  | 484.2 | 104.6 | 20.0  | 15.3 | 20.0   |
| 33°   | 4103.1 | 3962.0 | 3467.2 | 2783.2 | 1938.1 | 1095.4 | 538.3 | 105.8 | 17.6  | 15.3 | 18.8   |
| 34°   | 4488.6 | 4295.8 | 3805.7 | 3080.5 | 2168.5 | 1241.2 | 587.7 | 107.0 | 16.5  | 14.1 | 18.8   |
| 35°   | 4764.8 | 4572.0 | 4097.2 | 3315.6 | 2367.1 | 1370.4 | 644.1 | 107.0 | 15.3  | 14.1 | 17.6   |
| 36°   | 4978.7 | 4809.5 | 4348.7 | 3557.7 | 2564.6 | 1486.8 | 688.7 | 107.0 | 12.9  | 12.9 | 17.6   |
| 37°   | 5125.6 | 4964.6 | 4518.0 | 3765.8 | 2715.0 | 1590.2 | 728.7 | 107.0 | 11.8  | 12.9 | 17.6   |
| 38°   | 5197.3 | 5063.3 | 4681.4 | 3917.4 | 2860.8 | 1671.3 | 760.4 | 104.6 | 10.6  | 11.8 | 16.5   |
| 39°   | 5227.9 | 5118.6 | 4781.3 | 4045.5 | 2970.1 | 1741.8 | 783.9 | 102.3 | 9.4   | 11.8 | 16.5   |
| 40°   | 5223.2 | 5128.0 | 4837.7 | 4133.6 | 3058.2 | 1790.0 | 796.9 | 98.7  | 8.2   | 10.6 | 16.5   |
| 41°   | 5196.2 | 5113.9 | 4867.1 | 4208.9 | 3111.1 | 1822.9 | 800.4 | 95.2  | 7.1   | 10.6 | 15.3   |
| 42°   | 5165.6 | 5090.4 | 4876.5 | 4248.8 | 3145.2 | 1833.5 | 791.0 | 90.5  | 7.1   | 9.4  | 15.3   |
| 43°   | 5133.9 | 5064.5 | 4876.5 | 4261.8 | 3153.4 | 1826.5 | 775.7 | 82.3  | 5.9   | 9.4  | 15.3   |
| 44°   | 5108.0 | 5042.2 | 4861.2 | 4258.2 | 3135.8 | 1799.4 | 747.5 | 72.9  | 4.7   | 9.4  | 15.3   |
| 45°   | 5077.4 | 5012.8 | 4841.2 | 4235.9 | 3101.7 | 1753.6 | 712.3 | 64.6  | 3.5   | 8.2  | 15.3   |
| 46°   | 5023.4 | 4972.8 | 4805.9 | 4190.1 | 3047.6 | 1690.1 | 667.6 | 58.8  | 2.4   | 8.2  | 14.1   |
| 47°   | 4918.8 | 4875.3 | 4737.8 | 4121.9 | 2975.9 | 1614.9 | 621.8 | 52.9  | 2.4   | 8.2  | 14.1   |
| 48°   | 4708.4 | 4707.2 | 4601.4 | 3995.0 | 2861.9 | 1520.9 | 573.6 | 47.0  | 2.4   | 8.2  | 14.1   |
| 49°   | 4505.1 | 4483.9 | 4352.3 | 3771.6 | 2698.6 | 1408.0 | 523.0 | 42.3  | 1.2   | 8.2  | 14.1   |
| 50°   | 4393.4 | 4347.6 | 4131.3 | 3508.4 | 2489.4 | 1251.7 | 469.0 | 35.3  | 1.2   | 7.1  | 14.1   |
| 51°   | 4277.0 | 4211.2 | 3956.2 | 3271.0 | 2240.2 | 1101.3 | 410.2 | 28.2  | 1.2   | 7.1  | 12.9   |
| 52°   | 4066.7 | 4004.4 | 3718.8 | 3044.1 | 1998.1 | 947.3  | 353.8 | 23.5  | 1.2   | 7.1  | 14.1   |
| 53°   | 3839.8 | 3750.5 | 3440.2 | 2794.9 | 1785.3 | 811.0  | 296.2 | 20.0  | 1.2   | 7.1  | 12.9   |
| 54°   | 3554.2 | 3514.2 | 3158.1 | 2489.4 | 1536.2 | 679.3  | 243.3 | 16.5  | 1.2   | 7.1  | 12.9   |
| 55°   | 3285.1 | 3226.3 | 2856.1 | 2176.7 | 1310.5 | 557.1  | 203.3 | 12.9  | 1.2   | 7.1  | 12.9   |
| 56°   | 2941.9 | 2853.7 | 2507.0 | 1889.9 | 1081.3 | 449.0  | 171.6 | 10.6  | 1.2   | 7.1  | 12.9   |
| 57°   | 2532.8 | 2438.8 | 2165.0 | 1571.4 | 848.6  | 342.0  | 143.4 | 8.2   | 1.2   | 7.1  | 12.9   |
| 58°   | 2142.6 | 2061.5 | 1767.7 | 1212.9 | 639.4  | 237.4  | 118.7 | 5.9   | 1.2   | 5.9  | 12.9   |
| 59°   | 1851.2 | 1761.8 | 1470.3 | 933.2  | 444.3  | 175.1  | 89.3  | 4.7   | 1.2   | 7.1  | 12.9   |
| 60°   | 1603.2 | 1488.0 | 1183.6 | 722.8  | 317.3  | 125.8  | 65.8  | 2.4   | 2.4   | 7.1  | 12.9   |
| 62.5° | 923.8  | 815.7  | 565.3  | 293.8  | 130.5  | 64.6   | 31.7  | 1.2   | 2.4   | 7.1  | 12.9   |
| 65°   | 233.9  | 208.0  | 135.2  | 63.5   | 36.4   | 22.3   | 11.8  | 1.2   | 2.4   | 5.9  | 11.8   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 8.2 | 8.2 | 8.2 | 7.1 | 5.9 | 4.7 | 2.4 | 1.2 | 2.4   | 5.9 | 11.8   |
| 70°   | 3.5 | 3.5 | 3.5 | 2.4 | 2.4 | 1.2 | 1.2 | 1.2 | 2.4   | 5.9 | 10.6   |
| 72.5° | 2.4 | 2.4 | 2.4 | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 | 3.5   | 5.9 | 9.4    |
| 75°   | 2.4 | 2.4 | 2.4 | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 | 3.5   | 5.9 | 9.4    |
| 77.5° | 2.4 | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.5   | 4.7 | 8.2    |
| 80°   | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.5   | 4.7 | 7.1    |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.5   | 4.7 | 5.9    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 3.5   | 4.7 | 4.7    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 3.5   | 4.7 | 3.5    |
| 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: P1317280

CATALOG NUMBER: P3SQAS17R359830DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 59.9 | 59.9   | 59.9 |
| 2.5°  | 56.4 | 56.4   | 56.4 |
| 5°    | 52.9 | 52.9   | 51.7 |
| 7.5°  | 49.4 | 48.2   | 48.2 |
| 10°   | 44.7 | 44.7   | 44.7 |
| 12.5° | 41.1 | 41.1   | 41.1 |
| 15°   | 37.6 | 38.8   | 38.8 |
| 17.5° | 34.1 | 36.4   | 36.4 |
| 20°   | 31.7 | 34.1   | 35.3 |
| 22.5° | 29.4 | 31.7   | 32.9 |
| 25°   | 28.2 | 30.6   | 31.7 |
| 27.5° | 25.9 | 29.4   | 31.7 |
| 30°   | 24.7 | 28.2   | 30.6 |
| 31°   | 24.7 | 28.2   | 29.4 |
| 32°   | 23.5 | 28.2   | 29.4 |
| 33°   | 23.5 | 28.2   | 29.4 |
| 34°   | 23.5 | 27.0   | 29.4 |
| 35°   | 22.3 | 27.0   | 28.2 |
| 36°   | 22.3 | 27.0   | 28.2 |
| 37°   | 22.3 | 27.0   | 29.4 |
| 38°   | 22.3 | 27.0   | 28.2 |
| 39°   | 21.2 | 27.0   | 28.2 |
| 40°   | 21.2 | 27.0   | 28.2 |
| 41°   | 21.2 | 27.0   | 28.2 |
| 42°   | 21.2 | 27.0   | 28.2 |
| 43°   | 21.2 | 27.0   | 28.2 |
| 44°   | 21.2 | 25.9   | 28.2 |
| 45°   | 21.2 | 25.9   | 28.2 |
| 46°   | 21.2 | 27.0   | 28.2 |
| 47°   | 21.2 | 27.0   | 29.4 |
| 48°   | 21.2 | 25.9   | 28.2 |
| 49°   | 20.0 | 25.9   | 28.2 |
| 50°   | 20.0 | 25.9   | 28.2 |
| 51°   | 20.0 | 27.0   | 29.4 |
| 52°   | 20.0 | 27.0   | 29.4 |
| 53°   | 20.0 | 27.0   | 29.4 |
| 54°   | 20.0 | 27.0   | 28.2 |
| 55°   | 20.0 | 27.0   | 29.4 |
| 56°   | 20.0 | 27.0   | 28.2 |
| 57°   | 20.0 | 27.0   | 28.2 |
| 58°   | 20.0 | 25.9   | 28.2 |
| 59°   | 20.0 | 25.9   | 28.2 |
| 60°   | 20.0 | 25.9   | 28.2 |
| 62.5° | 18.8 | 25.9   | 28.2 |
| 65°   | 18.8 | 24.7   | 27.0 |





TEST NUMBER: P1317280

CATALOG NUMBER: P3SQAS17R359830DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 17.6 | 24.7   | 25.9 |
| 70°   | 16.5 | 23.5   | 24.7 |
| 72.5° | 15.3 | 22.3   | 23.5 |
| 75°   | 14.1 | 20.0   | 21.2 |
| 77.5° | 11.8 | 17.6   | 20.0 |
| 80°   | 10.6 | 15.3   | 16.5 |
| 82.5° | 8.2  | 12.9   | 14.1 |
| 85°   | 5.9  | 9.4    | 9.4  |
| 87.5° | 2.4  | 4.7    | 4.7  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)