

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: P1316336

Luminaire Tested: P3SQAS17R159827DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R159827DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

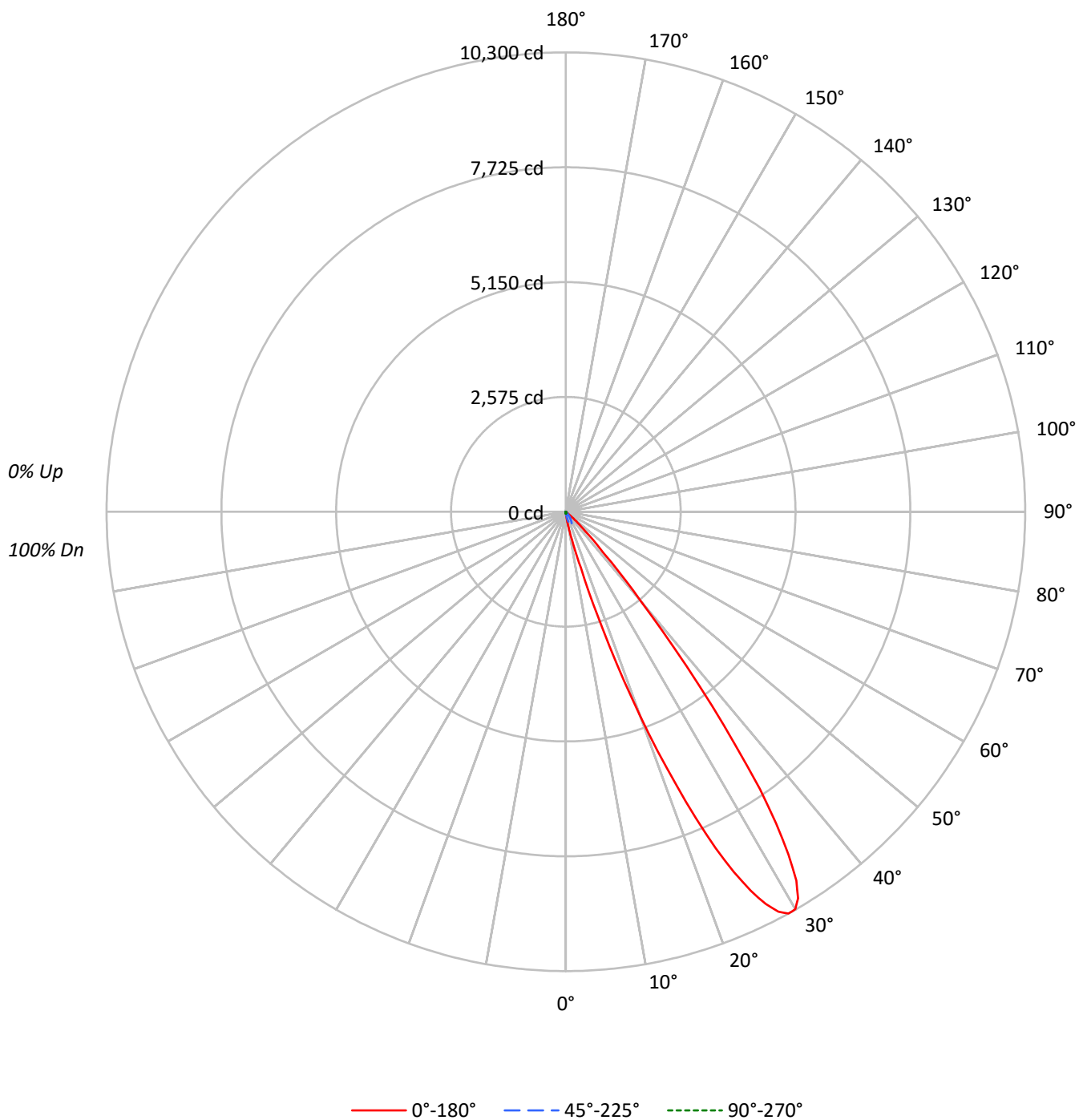
Lumens per Lamp: N/A  
Luminaire Lumens: 1125.1 lumens  
Efficiency: N/A  
Efficacy: 55.1 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1316336

CATALOG NUMBER: P3SQAS17R159827DE010 E3SQCA301MW

### Luminous Intensity Polar Plot



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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  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 39  | 39  | 37  |

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

|     | 0°      | 45°   | 90°  | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0°  | 6407    | 6407  | 6407 | 6407 | 6407 |
| 5°  | 13813   | 10217 | 6051 | 3216 | 2645 |
| 10° | 61243   | 19324 | 4792 | 1347 | 962  |
| 15° | 231609  | 44681 | 3316 | 588  | 392  |
| 20° | 890719  | 62973 | 1998 | 202  | 202  |
| 25° | 1693784 | 59060 | 1045 | 0    | 0    |
| 30° | 2046128 | 47668 | 438  | 0    | 0    |
| 35° | 1595844 | 32441 | 231  | 0    | 0    |
| 40° | 582353  | 15985 | 247  | 0    | 247  |
| 45° | 149521  | 4798  | 268  | 0    | 536  |
| 50° | 25212   | 589   | 295  | 295  | 884  |
| 55° | 3273    | 0     | 661  | 991  | 1651 |
| 60° | 379     | 379   | 1137 | 1516 | 2273 |
| 65° | 448     | 448   | 1793 | 2241 | 2690 |
| 70° | 554     | 554   | 2216 | 2216 | 2769 |
| 75° | 732     | 732   | 2928 | 2196 | 2928 |
| 80° | 0       | 1091  | 3273 | 2182 | 3273 |
| 85° | 0       | 2174  | 6521 | 2174 | 2174 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 149521 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.1    | 0.5       |
| 10°-20°   | 86.2   | 7.7       |
| 20°-30°   | 478.1  | 42.5      |
| 30°-40°   | 461.9  | 41.1      |
| 40°-50°   | 80.3   | 7.1       |
| 50°-60°   | 5.8    | 0.5       |
| 60°-70°   | 3.4    | 0.3       |
| 70°-80°   | 2.8    | 0.2       |
| 80°-90°   | 1.4    | 0.1       |
| 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°    | 569.4  | 50.6      |
| 0°-40°    | 1031.4 | 91.7      |
| 0°-60°    | 1117.5 | 99.3      |
| 0°-90°    | 1125.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1125.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 37   | 37  | 37  | 37   | 37   |      |
| 5°  | 80   | 59  | 35  | 19   | 15   | 16   |
| 15° | 1299 | 251 | 19  | 3    | 2    | 579  |
| 25° | 8913 | 311 | 6   | 0    | 0    | 3985 |
| 35° | 7590 | 154 | 1   | 0    | 0    | 4365 |
| 45° | 614  | 20  | 1   | 0    | 2    | 659  |
| 55° | 11   | 0   | 2   | 3    | 6    | 21   |
| 65° | 1    | 1   | 4   | 6    | 7    | 1    |
| 75° | 1    | 1   | 4   | 3    | 4    | 1    |
| 85° | 0    | 1   | 3   | 1    | 1    | 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°    | 37.2    | 37.2    | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2   | 37.2  |
| 2.5°  | 54.7    | 52.5    | 53.6   | 53.6   | 53.6   | 53.6   | 53.6   | 51.4   | 51.4   | 52.5   | 47.1  |
| 5°    | 79.9    | 79.9    | 78.8   | 79.9   | 79.9   | 78.8   | 76.6   | 75.5   | 75.5   | 73.3   | 59.1  |
| 7.5°  | 159.8   | 157.6   | 157.6  | 155.4  | 144.5  | 141.2  | 139.0  | 133.5  | 123.7  | 121.5  | 76.6  |
| 10°   | 350.2   | 351.3   | 343.6  | 333.8  | 332.7  | 316.3  | 310.8  | 300.9  | 282.3  | 263.7  | 110.5 |
| 12.5° | 635.8   | 621.6   | 603.0  | 604.1  | 572.3  | 561.4  | 536.2  | 508.9  | 480.4  | 450.9  | 181.7 |
| 15°   | 1299.0  | 1258.5  | 1282.6 | 1223.5 | 1156.7 | 1081.2 | 1004.6 | 908.3  | 826.2  | 738.7  | 250.6 |
| 17.5° | 2735.9  | 2775.3  | 2708.5 | 2455.7 | 2300.3 | 2117.6 | 1860.4 | 1612.0 | 1399.7 | 1228.9 | 306.4 |
| 20°   | 4860.0  | 4918.0  | 4691.4 | 4471.5 | 4093.9 | 3682.5 | 3253.5 | 2767.6 | 2302.5 | 1899.8 | 343.6 |
| 21°   | 5747.5  | 5712.5  | 5619.4 | 5267.1 | 4831.5 | 4354.4 | 3829.1 | 3292.9 | 2729.3 | 2206.2 | 346.9 |
| 22°   | 6605.4  | 6621.9  | 6405.2 | 6036.4 | 5583.3 | 5054.8 | 4413.5 | 3751.4 | 3144.0 | 2455.7 | 341.4 |
| 23°   | 7460.1  | 7512.7  | 7225.9 | 6880.1 | 6310.0 | 5713.6 | 4971.6 | 4257.0 | 3506.3 | 2741.3 | 330.5 |
| 24°   | 8251.3  | 8215.2  | 8021.5 | 7586.0 | 6976.4 | 6278.2 | 5507.8 | 4641.1 | 3803.9 | 2985.4 | 321.7 |
| 25°   | 8913.4  | 8909.0  | 8604.8 | 8181.3 | 7484.2 | 6710.5 | 5861.3 | 4955.2 | 4058.9 | 3150.6 | 310.8 |
| 26°   | 9455.1  | 9366.5  | 9126.8 | 8610.3 | 7921.9 | 7105.6 | 6151.3 | 5183.9 | 4202.3 | 3233.8 | 299.8 |
| 27°   | 9873.2  | 9809.7  | 9487.9 | 8950.6 | 8231.6 | 7328.8 | 6337.3 | 5297.7 | 4267.9 | 3261.1 | 285.6 |
| 28°   | 10154.4 | 10085.5 | 9742.9 | 9189.2 | 8402.4 | 7468.9 | 6435.8 | 5345.9 | 4267.9 | 3234.9 | 272.5 |
| 29°   | 10299.9 | 10205.8 | 9864.4 | 9271.3 | 8441.8 | 7485.3 | 6411.8 | 5298.8 | 4201.2 | 3153.9 | 257.2 |
| 30°   | 10289.0 | 10171.9 | 9814.1 | 9196.9 | 8324.7 | 7350.7 | 6277.1 | 5129.2 | 4050.2 | 3033.5 | 239.7 |
| 31°   | 10111.7 | 9980.4  | 9581.0 | 8945.2 | 8082.8 | 7096.8 | 6023.3 | 4901.6 | 3843.3 | 2877.0 | 222.2 |
| 32°   | 9751.7  | 9585.3  | 9195.8 | 8562.1 | 7710.7 | 6717.1 | 5654.5 | 4550.3 | 3533.6 | 2648.3 | 203.5 |
| 33°   | 9165.1  | 8997.7  | 8579.6 | 7985.4 | 7207.3 | 6235.6 | 5165.3 | 4172.7 | 3181.3 | 2375.8 | 188.2 |
| 34°   | 8430.8  | 8277.6  | 7917.6 | 7319.0 | 6572.6 | 5626.0 | 4602.8 | 3650.7 | 2815.7 | 2105.5 | 171.8 |
| 35°   | 7590.4  | 7346.3  | 7020.2 | 6546.4 | 5818.6 | 4866.5 | 3995.4 | 3164.8 | 2439.3 | 1822.1 | 154.3 |
| 36°   | 6453.3  | 6497.1  | 6151.3 | 5571.3 | 4968.3 | 4222.0 | 3385.9 | 2638.5 | 2039.9 | 1552.9 | 139.0 |
| 37°   | 5445.4  | 5376.5  | 5156.5 | 4707.9 | 4182.6 | 3441.7 | 2837.6 | 2236.8 | 1715.9 | 1313.2 | 122.6 |
| 38°   | 4392.7  | 4408.0  | 4192.4 | 3847.7 | 3326.8 | 2830.0 | 2283.9 | 1837.4 | 1435.8 | 1117.3 | 107.2 |
| 39°   | 3438.4  | 3426.4  | 3368.4 | 3048.8 | 2577.2 | 2251.1 | 1850.5 | 1523.3 | 1196.1 | 942.2  | 90.8  |
| 40°   | 2590.3  | 2610.0  | 2474.3 | 2281.7 | 2007.0 | 1738.9 | 1474.1 | 1214.7 | 989.3  | 794.5  | 71.1  |
| 42.5° | 1259.6  | 1290.2  | 1200.5 | 1151.2 | 1029.8 | 924.7  | 780.3  | 636.9  | 541.7  | 468.4  | 31.7  |
| 45°   | 613.9   | 596.4   | 588.8  | 564.7  | 536.2  | 479.3  | 424.6  | 364.4  | 318.5  | 274.7  | 19.7  |
| 47.5° | 314.1   | 305.3   | 305.3  | 295.5  | 285.6  | 267.0  | 239.7  | 220.0  | 198.1  | 170.7  | 7.7   |
| 50°   | 94.1    | 93.0    | 91.9   | 93.0   | 89.7   | 93.0   | 95.2   | 96.3   | 87.5   | 86.5   | 2.2   |
| 52.5° | 37.2    | 38.3    | 37.2   | 40.5   | 40.5   | 39.4   | 40.5   | 39.4   | 38.3   | 33.9   | 0.0   |
| 55°   | 10.9    | 10.9    | 10.9   | 10.9   | 10.9   | 10.9   | 12.0   | 13.1   | 12.0   | 13.1   | 0.0   |
| 57.5° | 2.2     | 2.2     | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 0.0   |
| 60°   | 1.1     | 1.1     | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 1.1   |
| 62.5° | 1.1     | 1.1     | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1   |
| 65°   | 1.1     | 1.1     | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1   |
| 67.5° | 1.1     | 1.1     | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1   |
| 70°   | 1.1     | 1.1     | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1   |
| 72.5° | 1.1     | 1.1     | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1   |
| 75°   | 1.1     | 1.1     | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1   |
| 77.5° | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1   |
| 80°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.1 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.1 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.1 |
| 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°    | 37.2  | 37.2 | 37.2   | 37.2 | 37.2   | 37.2 |
| 2.5°  | 43.8  | 38.3 | 31.7   | 26.3 | 24.1   | 23.0 |
| 5°    | 47.1  | 35.0 | 24.1   | 18.6 | 16.4   | 15.3 |
| 7.5°  | 50.3  | 31.7 | 18.6   | 13.1 | 9.8    | 8.8  |
| 10°   | 52.5  | 27.4 | 14.2   | 7.7  | 5.5    | 5.5  |
| 12.5° | 52.5  | 21.9 | 9.8    | 4.4  | 3.3    | 3.3  |
| 15°   | 51.4  | 18.6 | 6.6    | 3.3  | 2.2    | 2.2  |
| 17.5° | 50.3  | 14.2 | 4.4    | 2.2  | 1.1    | 2.2  |
| 20°   | 47.1  | 10.9 | 2.2    | 1.1  | 1.1    | 1.1  |
| 21°   | 46.0  | 9.8  | 2.2    | 1.1  | 1.1    | 1.1  |
| 22°   | 43.8  | 8.8  | 1.1    | 0.0  | 1.1    | 1.1  |
| 23°   | 41.6  | 6.6  | 1.1    | 0.0  | 0.0    | 0.0  |
| 24°   | 38.3  | 5.5  | 1.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 36.1  | 5.5  | 1.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 33.9  | 3.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 30.6  | 2.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 28.5  | 2.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 25.2  | 2.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 21.9  | 2.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 17.5  | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 14.2  | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 9.8   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 6.6   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 5.5   | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 3.3   | 1.1  | 0.0    | 0.0  | 0.0    | 1.1  |
| 37°   | 3.3   | 1.1  | 0.0    | 0.0  | 0.0    | 1.1  |
| 38°   | 2.2   | 1.1  | 0.0    | 0.0  | 0.0    | 1.1  |
| 39°   | 1.1   | 1.1  | 0.0    | 0.0  | 0.0    | 1.1  |
| 40°   | 1.1   | 1.1  | 0.0    | 0.0  | 0.0    | 1.1  |
| 42.5° | 0.0   | 1.1  | 0.0    | 0.0  | 1.1    | 2.2  |
| 45°   | 0.0   | 1.1  | 0.0    | 0.0  | 1.1    | 2.2  |
| 47.5° | 0.0   | 1.1  | 0.0    | 0.0  | 2.2    | 2.2  |
| 50°   | 0.0   | 1.1  | 1.1    | 1.1  | 2.2    | 3.3  |
| 52.5° | 0.0   | 2.2  | 1.1    | 2.2  | 3.3    | 4.4  |
| 55°   | 1.1   | 2.2  | 2.2    | 3.3  | 4.4    | 5.5  |
| 57.5° | 1.1   | 3.3  | 3.3    | 4.4  | 5.5    | 5.5  |
| 60°   | 2.2   | 3.3  | 4.4    | 4.4  | 6.6    | 6.6  |
| 62.5° | 2.2   | 4.4  | 4.4    | 4.4  | 6.6    | 6.6  |
| 65°   | 2.2   | 4.4  | 4.4    | 5.5  | 6.6    | 6.6  |
| 67.5° | 2.2   | 4.4  | 4.4    | 4.4  | 5.5    | 6.6  |
| 70°   | 2.2   | 4.4  | 3.3    | 4.4  | 5.5    | 5.5  |
| 72.5° | 2.2   | 4.4  | 3.3    | 3.3  | 4.4    | 5.5  |
| 75°   | 2.2   | 4.4  | 3.3    | 3.3  | 4.4    | 4.4  |
| 77.5° | 2.2   | 3.3  | 3.3    | 2.2  | 3.3    | 3.3  |
| 80°   | 2.2   | 3.3  | 2.2    | 2.2  | 3.3    | 3.3  |





TEST NUMBER: P1316336

CATALOG NUMBER: P3SQAS17R159827DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 2.2   | 3.3 | 2.2    | 1.1  | 2.2    | 2.2  |
| 85°   | 2.2   | 3.3 | 2.2    | 1.1  | 1.1    | 1.1  |
| 87.5° | 2.2   | 3.3 | 1.1    | 0.0  | 0.0    | 1.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)