

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: P1308344

Luminaire Tested: P3SQAS20R409030D010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R409030D010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

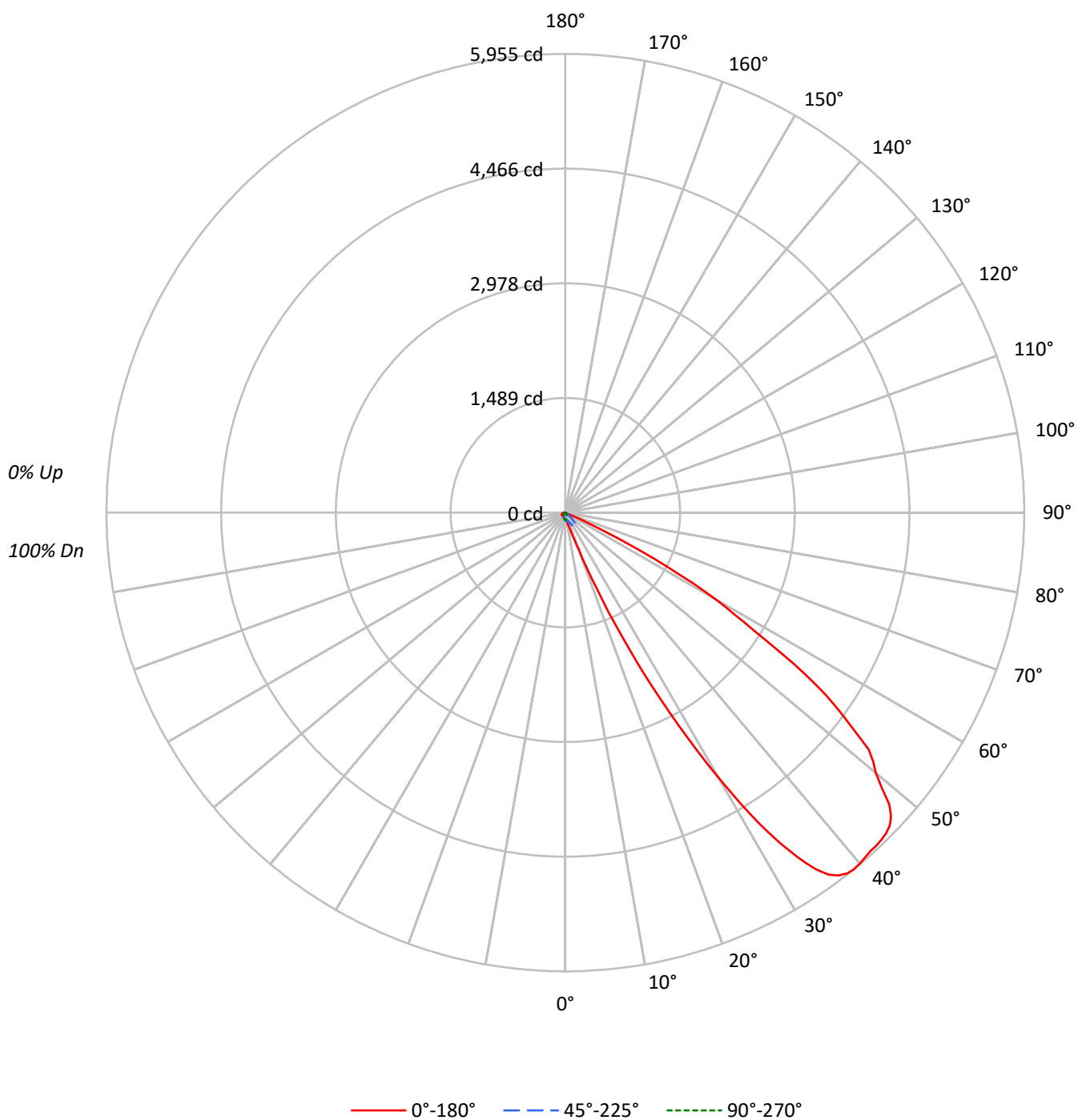
Lumens per Lamp: N/A  
Luminaire Lumens: 1840.0 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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: P1308344

CATALOG NUMBER: P3SQAS20R409030D010 E3SQCA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1308344

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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  |
| 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  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 26  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  | 31  | 24  | 20  | 30  | 24  | 19  |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 16292   | 16292 | 16292 | 16292 | 16292 |
| 5°  | 18118   | 17530 | 16061 | 14608 | 14315 |
| 10° | 21860   | 18625 | 14777 | 13291 | 13011 |
| 15° | 35856   | 20183 | 12659 | 11750 | 12053 |
| 20° | 94772   | 23844 | 10538 | 10538 | 11455 |
| 25° | 365421  | 29549 | 8342  | 9634  | 11231 |
| 30° | 788343  | 39316 | 6722  | 9406  | 11097 |
| 35° | 1186602 | 46548 | 5677  | 9230  | 11374 |
| 40° | 1336874 | 46718 | 4946  | 9487  | 12163 |
| 45° | 1433470 | 36217 | 4530  | 9889  | 13177 |
| 50° | 1408941 | 22640 | 4073  | 10423 | 14495 |
| 55° | 1239507 | 11170 | 4054  | 11680 | 16244 |
| 60° | 784577  | 2342  | 4650  | 12813 | 18049 |
| 65° | 160438  | 693   | 4809  | 13774 | 19968 |
| 70° | 3424    | 856   | 5086  | 15308 | 22962 |
| 75° | 3394    | 2262  | 5590  | 16835 | 25885 |
| 80° | 3372    | 1686  | 6744  | 18447 | 30150 |
| 85° | 3359    | 3359  | 13437 | 19958 | 33395 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1459376 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.8    | 0.5       |
| 10°-20°   | 29.1   | 1.6       |
| 20°-30°   | 142.9  | 7.8       |
| 30°-40°   | 464.9  | 25.3      |
| 40°-50°   | 640.8  | 34.8      |
| 50°-60°   | 446.4  | 24.3      |
| 60°-70°   | 84.6   | 4.6       |
| 70°-80°   | 15.3   | 0.8       |
| 80°-90°   | 7.1    | 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°    | 180.9  | 9.8       |
| 0°-40°    | 645.8  | 35.1      |
| 0°-60°    | 1733.0 | 94.2      |
| 0°-90°    | 1840.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1840.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 95   | 95  | 95  | 95   | 95   |      |
| 5°  | 105  | 101 | 93  | 84   | 83   | 11   |
| 15° | 201  | 113 | 71  | 66   | 68   | 73   |
| 25° | 1923 | 156 | 44  | 51   | 59   | 990  |
| 35° | 5644 | 221 | 27  | 44   | 54   | 3411 |
| 45° | 5886 | 149 | 19  | 41   | 54   | 4476 |
| 55° | 4128 | 37  | 14  | 39   | 54   | 3528 |
| 65° | 394  | 2   | 12  | 34   | 49   | 696  |
| 75° | 5    | 3   | 8   | 25   | 39   | 5    |
| 85° | 2    | 2   | 7   | 10   | 17   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°   | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0°    | 94.6   | 94.6   | 94.6   | 94.6   | 94.6   | 94.6   | 94.6   | 94.6  | 94.6  | 94.6  | 94.6 |
| 2.5°  | 98.0   | 98.0   | 98.0   | 98.0   | 98.0   | 98.0   | 98.0   | 98.0  | 98.0  | 96.3  | 94.6 |
| 5°    | 104.8  | 104.8  | 104.8  | 104.8  | 103.1  | 103.1  | 103.1  | 101.4 | 101.4 | 98.0  | 92.9 |
| 7.5°  | 111.5  | 111.5  | 111.5  | 111.5  | 109.8  | 108.1  | 106.5  | 106.5 | 104.8 | 96.3  | 89.6 |
| 10°   | 125.0  | 125.0  | 123.4  | 121.7  | 120.0  | 116.6  | 114.9  | 111.5 | 106.5 | 94.6  | 84.5 |
| 12.5° | 152.1  | 148.7  | 147.0  | 143.6  | 138.6  | 131.8  | 125.0  | 120.0 | 108.1 | 91.2  | 79.4 |
| 15°   | 201.1  | 197.7  | 190.9  | 180.8  | 170.7  | 157.1  | 145.3  | 133.5 | 113.2 | 86.2  | 71.0 |
| 17.5° | 287.3  | 277.1  | 267.0  | 250.1  | 224.7  | 201.1  | 175.7  | 153.8 | 120.0 | 81.1  | 64.2 |
| 20°   | 517.1  | 510.3  | 449.5  | 402.2  | 326.1  | 272.1  | 221.4  | 184.2 | 130.1 | 76.0  | 57.5 |
| 22.5° | 1066.3 | 995.3  | 895.6  | 733.4  | 571.1  | 420.8  | 305.9  | 231.5 | 140.3 | 69.3  | 50.7 |
| 25°   | 1923.0 | 1811.4 | 1596.8 | 1284.2 | 948.0  | 670.8  | 442.7  | 302.5 | 155.5 | 62.5  | 43.9 |
| 27.5° | 2911.5 | 2798.3 | 2465.4 | 2034.5 | 1485.3 | 1012.2 | 632.0  | 400.5 | 175.7 | 55.8  | 38.9 |
| 30°   | 3964.2 | 3867.9 | 3445.5 | 2849.0 | 2093.6 | 1417.7 | 846.6  | 500.2 | 197.7 | 49.0  | 33.8 |
| 31°   | 4388.4 | 4265.0 | 3808.8 | 3173.4 | 2379.2 | 1585.0 | 932.8  | 542.4 | 206.2 | 47.3  | 32.1 |
| 32°   | 4778.7 | 4638.5 | 4165.3 | 3484.3 | 2610.7 | 1765.8 | 1027.4 | 579.6 | 212.9 | 43.9  | 30.4 |
| 33°   | 5115.0 | 4951.1 | 4494.8 | 3778.4 | 2865.9 | 1934.8 | 1125.4 | 615.1 | 218.0 | 40.6  | 28.7 |
| 34°   | 5400.6 | 5258.6 | 4768.6 | 4074.1 | 3092.3 | 2097.0 | 1221.7 | 650.6 | 221.4 | 38.9  | 27.0 |
| 35°   | 5643.9 | 5515.5 | 5030.5 | 4298.8 | 3313.7 | 2254.2 | 1309.6 | 684.4 | 221.4 | 35.5  | 27.0 |
| 36°   | 5807.8 | 5696.3 | 5256.9 | 4528.6 | 3499.5 | 2387.7 | 1383.9 | 714.8 | 221.4 | 32.1  | 25.3 |
| 37°   | 5897.3 | 5789.2 | 5405.6 | 4717.9 | 3682.0 | 2519.5 | 1451.5 | 738.4 | 219.7 | 30.4  | 23.7 |
| 38°   | 5943.0 | 5848.3 | 5515.5 | 4871.6 | 3808.8 | 2614.1 | 1510.7 | 757.0 | 218.0 | 27.0  | 23.7 |
| 39°   | 5954.8 | 5875.4 | 5584.7 | 4983.2 | 3932.1 | 2708.7 | 1552.9 | 767.2 | 212.9 | 25.3  | 22.0 |
| 40°   | 5946.4 | 5877.1 | 5621.9 | 5082.9 | 4026.8 | 2783.1 | 1583.3 | 770.5 | 207.8 | 22.0  | 22.0 |
| 41°   | 5929.5 | 5875.4 | 5648.9 | 5152.2 | 4102.8 | 2830.4 | 1595.2 | 763.8 | 201.1 | 18.6  | 20.3 |
| 42°   | 5914.2 | 5855.1 | 5660.8 | 5199.5 | 4155.2 | 2854.0 | 1593.5 | 750.3 | 190.9 | 16.9  | 20.3 |
| 43°   | 5914.2 | 5846.7 | 5662.5 | 5229.9 | 4180.5 | 2855.7 | 1573.2 | 724.9 | 177.4 | 15.2  | 18.6 |
| 44°   | 5904.1 | 5841.6 | 5670.9 | 5250.2 | 4187.3 | 2840.5 | 1541.1 | 697.9 | 162.2 | 13.5  | 18.6 |
| 45°   | 5885.5 | 5819.6 | 5669.2 | 5251.8 | 4175.5 | 2803.4 | 1488.7 | 662.4 | 148.7 | 10.1  | 18.6 |
| 46°   | 5850.0 | 5790.9 | 5654.0 | 5240.0 | 4140.0 | 2749.3 | 1426.2 | 626.9 | 133.5 | 8.4   | 16.9 |
| 47°   | 5779.1 | 5733.4 | 5613.5 | 5199.5 | 4085.9 | 2669.9 | 1351.8 | 586.4 | 121.7 | 6.8   | 16.9 |
| 48°   | 5657.4 | 5625.3 | 5544.2 | 5109.9 | 3982.8 | 2571.9 | 1272.4 | 542.4 | 109.8 | 6.8   | 16.9 |
| 49°   | 5434.3 | 5409.0 | 5361.7 | 4966.3 | 3851.0 | 2451.9 | 1186.2 | 493.4 | 98.0  | 5.1   | 16.9 |
| 50°   | 5258.6 | 5231.6 | 5135.3 | 4724.6 | 3661.8 | 2299.8 | 1091.6 | 444.4 | 84.5  | 3.4   | 15.2 |
| 51°   | 5142.0 | 5098.1 | 4946.0 | 4444.1 | 3386.3 | 2097.0 | 988.5  | 395.4 | 71.0  | 3.4   | 15.2 |
| 52°   | 4995.0 | 4929.1 | 4739.8 | 4192.4 | 3134.5 | 1894.2 | 877.0  | 346.4 | 62.5  | 3.4   | 15.2 |
| 53°   | 4687.5 | 4663.8 | 4476.2 | 3922.0 | 2882.8 | 1699.9 | 762.1  | 305.9 | 54.1  | 3.4   | 15.2 |
| 54°   | 4418.8 | 4383.3 | 4128.1 | 3546.9 | 2609.0 | 1483.6 | 643.8  | 270.4 | 45.6  | 3.4   | 15.2 |
| 55°   | 4128.1 | 4058.9 | 3832.4 | 3230.9 | 2288.0 | 1284.2 | 530.6  | 233.2 | 37.2  | 3.4   | 13.5 |
| 56°   | 3761.5 | 3700.6 | 3457.3 | 2892.9 | 1992.3 | 1081.5 | 444.4  | 190.9 | 28.7  | 3.4   | 13.5 |
| 57°   | 3315.4 | 3259.6 | 3072.0 | 2477.2 | 1684.7 | 883.8  | 361.6  | 153.8 | 22.0  | 3.4   | 13.5 |
| 58°   | 2884.5 | 2821.9 | 2607.3 | 2078.4 | 1360.3 | 701.3  | 302.5  | 125.0 | 16.9  | 3.4   | 13.5 |
| 59°   | 2553.3 | 2468.8 | 2191.7 | 1745.5 | 1064.6 | 532.3  | 239.9  | 99.7  | 11.8  | 3.4   | 13.5 |
| 60°   | 2277.8 | 2208.5 | 1921.3 | 1453.2 | 834.8  | 392.0  | 177.4  | 76.0  | 6.8   | 3.4   | 13.5 |
| 62.5° | 1319.7 | 1301.1 | 1042.6 | 748.6  | 393.7  | 182.5  | 87.9   | 35.5  | 3.4   | 5.1   | 13.5 |
| 65°   | 393.7  | 343.0  | 267.0  | 158.8  | 101.4  | 60.8   | 32.1   | 11.8  | 1.7   | 5.1   | 11.8 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30° | 35° | 45° | 67.5° | 90°  |
|-------|------|------|------|------|------|------|-----|-----|-----|-------|------|
| 67.5° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 6.8 | 3.4 | 1.7 | 5.1   | 11.8 |
| 70°   | 6.8  | 5.1  | 5.1  | 5.1  | 5.1  | 3.4  | 3.4 | 1.7 | 1.7 | 5.1   | 10.1 |
| 72.5° | 5.1  | 5.1  | 5.1  | 5.1  | 3.4  | 3.4  | 3.4 | 1.7 | 3.4 | 5.1   | 8.4  |
| 75°   | 5.1  | 3.4  | 3.4  | 3.4  | 3.4  | 1.7  | 1.7 | 1.7 | 3.4 | 5.1   | 8.4  |
| 77.5° | 3.4  | 3.4  | 3.4  | 3.4  | 1.7  | 1.7  | 1.7 | 1.7 | 3.4 | 5.1   | 8.4  |
| 80°   | 3.4  | 3.4  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7 | 1.7 | 1.7 | 5.1   | 6.8  |
| 82.5° | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7 | 1.7 | 1.7 | 5.1   | 6.8  |
| 85°   | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7 | 1.7 | 1.7 | 5.1   | 6.8  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.7 | 1.7 | 5.1   | 5.1  |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 94.6   | 94.6 | 94.6   | 94.6 |
| 2.5°  | 91.2   | 89.6 | 87.9   | 87.9 |
| 5°    | 87.9   | 84.5 | 84.5   | 82.8 |
| 7.5°  | 82.8   | 79.4 | 79.4   | 79.4 |
| 10°   | 77.7   | 76.0 | 76.0   | 74.4 |
| 12.5° | 71.0   | 71.0 | 71.0   | 71.0 |
| 15°   | 65.9   | 65.9 | 67.6   | 67.6 |
| 17.5° | 59.1   | 60.8 | 64.2   | 65.9 |
| 20°   | 54.1   | 57.5 | 60.8   | 62.5 |
| 22.5° | 50.7   | 54.1 | 59.1   | 60.8 |
| 25°   | 45.6   | 50.7 | 57.5   | 59.1 |
| 27.5° | 42.2   | 49.0 | 54.1   | 57.5 |
| 30°   | 38.9   | 47.3 | 52.4   | 55.8 |
| 31°   | 38.9   | 45.6 | 52.4   | 55.8 |
| 32°   | 37.2   | 43.9 | 52.4   | 54.1 |
| 33°   | 37.2   | 43.9 | 52.4   | 54.1 |
| 34°   | 35.5   | 43.9 | 50.7   | 54.1 |
| 35°   | 35.5   | 43.9 | 50.7   | 54.1 |
| 36°   | 33.8   | 42.2 | 50.7   | 54.1 |
| 37°   | 33.8   | 42.2 | 50.7   | 54.1 |
| 38°   | 32.1   | 42.2 | 50.7   | 54.1 |
| 39°   | 32.1   | 42.2 | 50.7   | 54.1 |
| 40°   | 32.1   | 42.2 | 50.7   | 54.1 |
| 41°   | 30.4   | 42.2 | 50.7   | 54.1 |
| 42°   | 30.4   | 42.2 | 50.7   | 54.1 |
| 43°   | 30.4   | 40.6 | 50.7   | 54.1 |
| 44°   | 30.4   | 40.6 | 50.7   | 54.1 |
| 45°   | 28.7   | 40.6 | 50.7   | 54.1 |
| 46°   | 28.7   | 40.6 | 50.7   | 54.1 |
| 47°   | 28.7   | 40.6 | 50.7   | 54.1 |
| 48°   | 28.7   | 40.6 | 50.7   | 54.1 |
| 49°   | 28.7   | 40.6 | 50.7   | 54.1 |
| 50°   | 27.0   | 38.9 | 50.7   | 54.1 |
| 51°   | 27.0   | 38.9 | 50.7   | 54.1 |
| 52°   | 27.0   | 38.9 | 50.7   | 54.1 |
| 53°   | 27.0   | 38.9 | 50.7   | 54.1 |
| 54°   | 25.3   | 38.9 | 50.7   | 54.1 |
| 55°   | 25.3   | 38.9 | 50.7   | 54.1 |
| 56°   | 25.3   | 38.9 | 50.7   | 52.4 |
| 57°   | 25.3   | 38.9 | 49.0   | 52.4 |
| 58°   | 25.3   | 37.2 | 49.0   | 52.4 |
| 59°   | 25.3   | 37.2 | 49.0   | 52.4 |
| 60°   | 25.3   | 37.2 | 49.0   | 52.4 |
| 62.5° | 23.7   | 37.2 | 47.3   | 50.7 |
| 65°   | 22.0   | 33.8 | 47.3   | 49.0 |





TEST NUMBER: P1308344

CATALOG NUMBER: P3SQAS20R409030D010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 22.0   | 32.1 | 43.9   | 47.3 |
| 70°   | 20.3   | 30.4 | 42.2   | 45.6 |
| 72.5° | 16.9   | 28.7 | 38.9   | 42.2 |
| 75°   | 15.2   | 25.3 | 35.5   | 38.9 |
| 77.5° | 13.5   | 22.0 | 32.1   | 33.8 |
| 80°   | 11.8   | 18.6 | 27.0   | 30.4 |
| 82.5° | 8.4    | 13.5 | 22.0   | 23.7 |
| 85°   | 6.8    | 10.1 | 15.2   | 16.9 |
| 87.5° | 5.1    | 5.1  | 8.4    | 8.4  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)