

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: P1308488

Luminaire Tested: P3SQAS24R409030D010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308488  
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: P3SQAS24R409030D010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

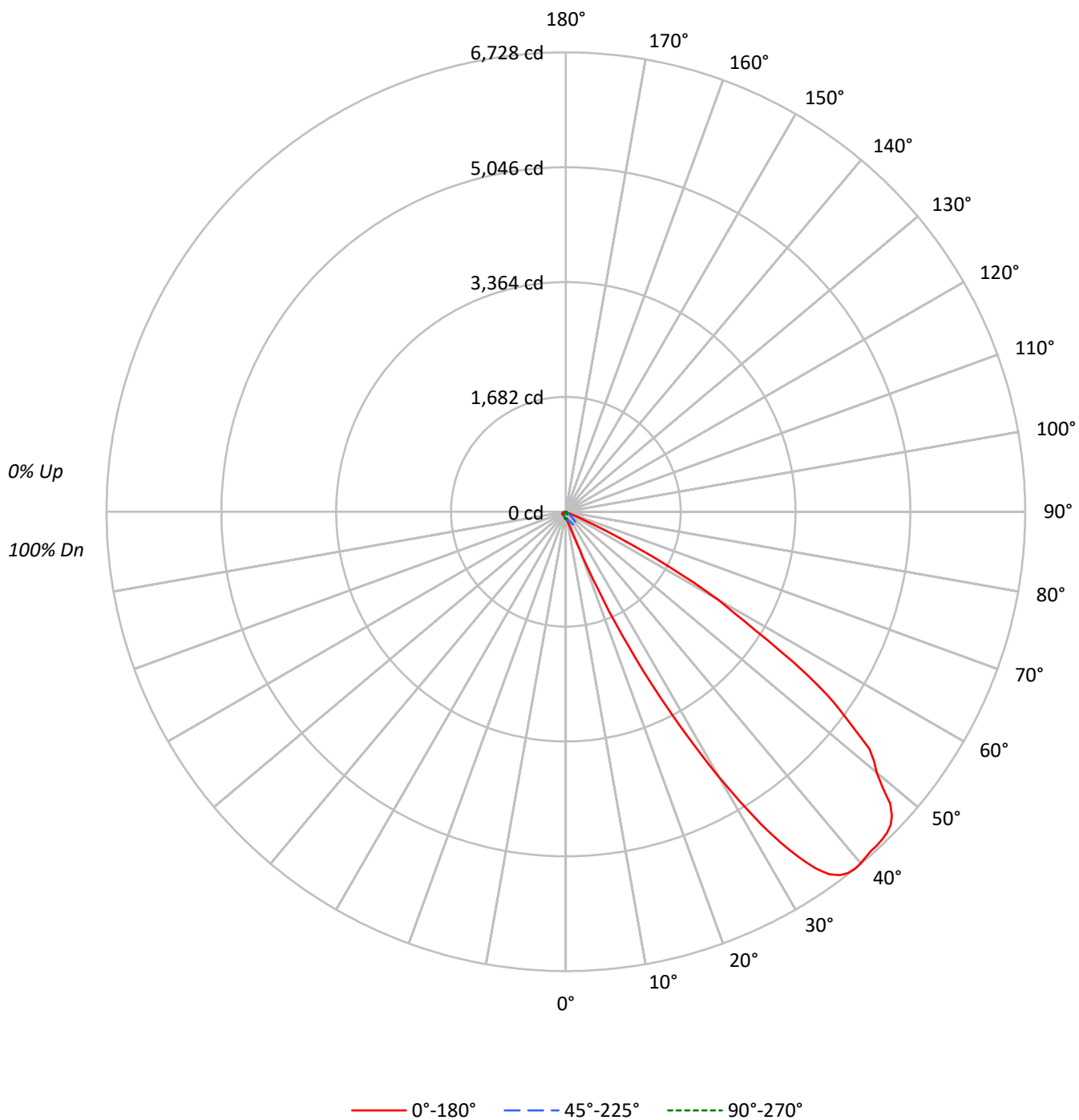
Lumens per Lamp: N/A  
Luminaire Lumens: 2079.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1308488

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1308488

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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 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 72  |    |    |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 66  | 62  | 60  |    |    |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 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  | 39  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 26  | 24  |    |    |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  |    |    |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  | 31  | 24  | 20  | 30  | 24  | 19  | 18  |    |    |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 18411   | 18411 | 18411 | 18411 | 18411 |
| 5°  | 20469   | 19812 | 18152 | 16510 | 16182 |
| 10° | 24710   | 21038 | 16701 | 15022 | 14690 |
| 15° | 40509   | 22804 | 14299 | 13283 | 13622 |
| 20° | 107070  | 26941 | 11895 | 11895 | 12939 |
| 25° | 412890  | 33388 | 9425  | 10889 | 12694 |
| 30° | 890759  | 44427 | 7597  | 10639 | 12529 |
| 35° | 1340733 | 52582 | 6412  | 10428 | 12846 |
| 40° | 1510503 | 52788 | 5576  | 10724 | 13737 |
| 45° | 1619671 | 40918 | 5115  | 11155 | 14881 |
| 50° | 1591965 | 25587 | 4608  | 11762 | 16371 |
| 55° | 1400537 | 12611 | 4594  | 13181 | 18346 |
| 60° | 886499  | 2618  | 5270  | 14467 | 20391 |
| 65° | 181303  | 774   | 5461  | 15567 | 22576 |
| 70° | 3827    | 957   | 5791  | 17322 | 25983 |
| 75° | 3793    | 2529  | 6321  | 19031 | 29212 |
| 80° | 3769    | 1884  | 7538  | 20828 | 34118 |
| 85° | 3754    | 3754  | 15018 | 22724 | 37742 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1648922 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.0   | 0.5       |
| 10°-20°   | 32.9   | 1.6       |
| 20°-30°   | 161.5  | 7.8       |
| 30°-40°   | 525.2  | 25.3      |
| 40°-50°   | 724.1  | 34.8      |
| 50°-60°   | 504.4  | 24.3      |
| 60°-70°   | 95.6   | 4.6       |
| 70°-80°   | 17.3   | 0.8       |
| 80°-90°   | 8.0    | 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°    | 204.4  | 9.8       |
| 0°-40°    | 729.7  | 35.1      |
| 0°-60°    | 1958.1 | 94.2      |
| 0°-90°    | 2079.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2079.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 107  | 107 | 107 | 107  | 107  |      |
| 5°  | 118  | 115 | 105 | 96   | 94   | 12   |
| 15° | 227  | 128 | 80  | 74   | 76   | 83   |
| 25° | 2173 | 176 | 50  | 57   | 67   | 1119 |
| 35° | 6377 | 250 | 30  | 50   | 61   | 3854 |
| 45° | 6650 | 168 | 21  | 46   | 61   | 5057 |
| 55° | 4664 | 42  | 15  | 44   | 61   | 3987 |
| 65° | 445  | 2   | 13  | 38   | 55   | 787  |
| 75° | 6    | 4   | 10  | 29   | 44   | 6    |
| 85° | 2    | 2   | 8   | 12   | 19   | 2    |
| 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°    | 106.9  | 106.9  | 106.9  | 106.9  | 106.9  | 106.9  | 106.9  | 106.9 | 106.9 | 106.9 | 106.9 |
| 2.5°  | 110.7  | 110.7  | 110.7  | 110.7  | 110.7  | 110.7  | 110.7  | 110.7 | 110.7 | 108.8 | 106.9 |
| 5°    | 118.4  | 118.4  | 118.4  | 118.4  | 116.5  | 116.5  | 116.5  | 114.6 | 114.6 | 110.7 | 105.0 |
| 7.5°  | 126.0  | 126.0  | 126.0  | 126.0  | 124.1  | 122.2  | 120.3  | 120.3 | 118.4 | 108.8 | 101.2 |
| 10°   | 141.3  | 141.3  | 139.4  | 137.5  | 135.6  | 131.7  | 129.8  | 126.0 | 120.3 | 106.9 | 95.5  |
| 12.5° | 171.8  | 168.0  | 166.1  | 162.3  | 156.6  | 148.9  | 141.3  | 135.6 | 122.2 | 103.1 | 89.7  |
| 15°   | 227.2  | 223.4  | 215.7  | 204.3  | 192.8  | 177.6  | 164.2  | 150.8 | 127.9 | 97.4  | 80.2  |
| 17.5° | 324.6  | 313.1  | 301.7  | 282.6  | 253.9  | 227.2  | 198.6  | 173.7 | 135.6 | 91.6  | 72.6  |
| 20°   | 584.2  | 576.6  | 507.9  | 454.4  | 368.5  | 307.4  | 250.1  | 208.1 | 147.0 | 85.9  | 64.9  |
| 22.5° | 1204.8 | 1124.6 | 1011.9 | 828.6  | 645.3  | 475.4  | 345.6  | 261.6 | 158.5 | 78.3  | 57.3  |
| 25°   | 2172.8 | 2046.7 | 1804.3 | 1451.0 | 1071.1 | 758.0  | 500.2  | 341.8 | 175.7 | 70.6  | 49.6  |
| 27.5° | 3289.7 | 3161.8 | 2785.6 | 2298.8 | 1678.3 | 1143.7 | 714.1  | 452.5 | 198.6 | 63.0  | 43.9  |
| 30°   | 4479.2 | 4370.3 | 3893.0 | 3219.0 | 2365.6 | 1601.9 | 956.5  | 565.1 | 223.4 | 55.4  | 38.2  |
| 31°   | 4958.4 | 4819.0 | 4303.5 | 3585.6 | 2688.3 | 1790.9 | 1053.9 | 612.9 | 232.9 | 53.5  | 36.3  |
| 32°   | 5399.4 | 5241.0 | 4706.4 | 3936.9 | 2949.8 | 1995.2 | 1160.8 | 654.9 | 240.6 | 49.6  | 34.4  |
| 33°   | 5779.4 | 5594.2 | 5078.7 | 4269.1 | 3238.1 | 2186.1 | 1271.6 | 695.0 | 246.3 | 45.8  | 32.5  |
| 34°   | 6102.0 | 5941.7 | 5388.0 | 4603.3 | 3494.0 | 2369.4 | 1380.4 | 735.1 | 250.1 | 43.9  | 30.5  |
| 35°   | 6377.0 | 6231.9 | 5683.9 | 4857.2 | 3744.1 | 2547.0 | 1479.7 | 773.3 | 250.1 | 40.1  | 30.5  |
| 36°   | 6562.2 | 6436.2 | 5939.7 | 5116.9 | 3954.1 | 2697.8 | 1563.7 | 807.6 | 250.1 | 36.3  | 28.6  |
| 37°   | 6663.4 | 6541.2 | 6107.8 | 5330.7 | 4160.3 | 2846.7 | 1640.1 | 834.4 | 248.2 | 34.4  | 26.7  |
| 38°   | 6714.9 | 6608.0 | 6231.9 | 5504.4 | 4303.5 | 2953.6 | 1706.9 | 855.4 | 246.3 | 30.5  | 26.7  |
| 39°   | 6728.3 | 6638.5 | 6310.1 | 5630.4 | 4442.9 | 3060.6 | 1754.6 | 866.8 | 240.6 | 28.6  | 24.8  |
| 40°   | 6718.7 | 6640.4 | 6352.1 | 5743.1 | 4549.8 | 3144.6 | 1789.0 | 870.6 | 234.8 | 24.8  | 24.8  |
| 41°   | 6699.6 | 6638.5 | 6382.7 | 5821.4 | 4635.7 | 3198.0 | 1802.4 | 863.0 | 227.2 | 21.0  | 22.9  |
| 42°   | 6682.5 | 6615.6 | 6396.1 | 5874.8 | 4694.9 | 3224.8 | 1800.4 | 847.7 | 215.7 | 19.1  | 22.9  |
| 43°   | 6682.5 | 6606.1 | 6398.0 | 5909.2 | 4723.5 | 3226.7 | 1777.5 | 819.1 | 200.5 | 17.2  | 21.0  |
| 44°   | 6671.0 | 6600.4 | 6407.5 | 5932.1 | 4731.2 | 3209.5 | 1741.3 | 788.5 | 183.3 | 15.3  | 21.0  |
| 45°   | 6650.0 | 6575.5 | 6405.6 | 5934.0 | 4717.8 | 3167.5 | 1682.1 | 748.4 | 168.0 | 11.5  | 21.0  |
| 46°   | 6609.9 | 6543.1 | 6388.4 | 5920.7 | 4677.7 | 3106.4 | 1611.4 | 708.3 | 150.8 | 9.5   | 19.1  |
| 47°   | 6529.7 | 6478.2 | 6342.6 | 5874.8 | 4616.6 | 3016.7 | 1527.4 | 662.5 | 137.5 | 7.6   | 19.1  |
| 48°   | 6392.2 | 6356.0 | 6264.3 | 5773.6 | 4500.2 | 2905.9 | 1437.7 | 612.9 | 124.1 | 7.6   | 19.1  |
| 49°   | 6140.2 | 6111.6 | 6058.1 | 5611.4 | 4351.2 | 2770.4 | 1340.3 | 557.5 | 110.7 | 5.7   | 19.1  |
| 50°   | 5941.7 | 5911.1 | 5802.3 | 5338.3 | 4137.4 | 2598.5 | 1233.4 | 502.1 | 95.5  | 3.8   | 17.2  |
| 51°   | 5809.9 | 5760.3 | 5588.4 | 5021.4 | 3826.2 | 2369.4 | 1116.9 | 446.8 | 80.2  | 3.8   | 17.2  |
| 52°   | 5643.8 | 5569.3 | 5355.5 | 4736.9 | 3541.7 | 2140.3 | 990.9  | 391.4 | 70.6  | 3.8   | 17.2  |
| 53°   | 5296.3 | 5269.6 | 5057.7 | 4431.4 | 3257.2 | 1920.7 | 861.1  | 345.6 | 61.1  | 3.8   | 17.2  |
| 54°   | 4992.7 | 4952.7 | 4664.4 | 4007.6 | 2947.9 | 1676.3 | 727.4  | 305.5 | 51.6  | 3.8   | 17.2  |
| 55°   | 4664.4 | 4586.1 | 4330.2 | 3650.5 | 2585.2 | 1451.0 | 599.5  | 263.5 | 42.0  | 3.8   | 15.3  |
| 56°   | 4250.0 | 4181.3 | 3906.4 | 3268.7 | 2251.0 | 1221.9 | 502.1  | 215.7 | 32.5  | 3.8   | 15.3  |
| 57°   | 3746.0 | 3683.0 | 3471.1 | 2799.0 | 1903.5 | 998.5  | 408.6  | 173.7 | 24.8  | 3.8   | 15.3  |
| 58°   | 3259.1 | 3188.5 | 2946.0 | 2348.4 | 1537.0 | 792.3  | 341.8  | 141.3 | 19.1  | 3.8   | 15.3  |
| 59°   | 2884.9 | 2789.4 | 2476.3 | 1972.3 | 1202.8 | 601.4  | 271.1  | 112.6 | 13.4  | 3.8   | 15.3  |
| 60°   | 2573.7 | 2495.4 | 2170.8 | 1642.0 | 943.2  | 443.0  | 200.5  | 85.9  | 7.6   | 3.8   | 15.3  |
| 62.5° | 1491.1 | 1470.1 | 1178.0 | 845.8  | 444.9  | 206.2  | 99.3   | 40.1  | 3.8   | 5.7   | 15.3  |
| 65°   | 444.9  | 387.6  | 301.7  | 179.5  | 114.6  | 68.7   | 36.3   | 13.4  | 1.9   | 5.7   | 13.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30° | 35° | 45° | 67.5° | 90°  |
|-------|------|------|------|------|------|------|-----|-----|-----|-------|------|
| 67.5° | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 7.6 | 3.8 | 1.9 | 5.7   | 13.4 |
| 70°   | 7.6  | 5.7  | 5.7  | 5.7  | 5.7  | 3.8  | 3.8 | 1.9 | 1.9 | 5.7   | 11.5 |
| 72.5° | 5.7  | 5.7  | 5.7  | 5.7  | 3.8  | 3.8  | 3.8 | 1.9 | 3.8 | 5.7   | 9.5  |
| 75°   | 5.7  | 3.8  | 3.8  | 3.8  | 3.8  | 1.9  | 1.9 | 1.9 | 3.8 | 5.7   | 9.5  |
| 77.5° | 3.8  | 3.8  | 3.8  | 3.8  | 1.9  | 1.9  | 1.9 | 1.9 | 3.8 | 5.7   | 9.5  |
| 80°   | 3.8  | 3.8  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9 | 1.9 | 1.9 | 5.7   | 7.6  |
| 82.5° | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9 | 1.9 | 1.9 | 5.7   | 7.6  |
| 85°   | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9 | 1.9 | 1.9 | 5.7   | 7.6  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.9 | 1.9 | 5.7   | 5.7  |
| 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: P1308488

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 106.9  | 106.9 | 106.9  | 106.9 |
| 2.5°  | 103.1  | 101.2 | 99.3   | 99.3  |
| 5°    | 99.3   | 95.5  | 95.5   | 93.6  |
| 7.5°  | 93.6   | 89.7  | 89.7   | 89.7  |
| 10°   | 87.8   | 85.9  | 85.9   | 84.0  |
| 12.5° | 80.2   | 80.2  | 80.2   | 80.2  |
| 15°   | 74.5   | 74.5  | 76.4   | 76.4  |
| 17.5° | 66.8   | 68.7  | 72.6   | 74.5  |
| 20°   | 61.1   | 64.9  | 68.7   | 70.6  |
| 22.5° | 57.3   | 61.1  | 66.8   | 68.7  |
| 25°   | 51.6   | 57.3  | 64.9   | 66.8  |
| 27.5° | 47.7   | 55.4  | 61.1   | 64.9  |
| 30°   | 43.9   | 53.5  | 59.2   | 63.0  |
| 31°   | 43.9   | 51.6  | 59.2   | 63.0  |
| 32°   | 42.0   | 49.6  | 59.2   | 61.1  |
| 33°   | 42.0   | 49.6  | 59.2   | 61.1  |
| 34°   | 40.1   | 49.6  | 57.3   | 61.1  |
| 35°   | 40.1   | 49.6  | 57.3   | 61.1  |
| 36°   | 38.2   | 47.7  | 57.3   | 61.1  |
| 37°   | 38.2   | 47.7  | 57.3   | 61.1  |
| 38°   | 36.3   | 47.7  | 57.3   | 61.1  |
| 39°   | 36.3   | 47.7  | 57.3   | 61.1  |
| 40°   | 36.3   | 47.7  | 57.3   | 61.1  |
| 41°   | 34.4   | 47.7  | 57.3   | 61.1  |
| 42°   | 34.4   | 47.7  | 57.3   | 61.1  |
| 43°   | 34.4   | 45.8  | 57.3   | 61.1  |
| 44°   | 34.4   | 45.8  | 57.3   | 61.1  |
| 45°   | 32.5   | 45.8  | 57.3   | 61.1  |
| 46°   | 32.5   | 45.8  | 57.3   | 61.1  |
| 47°   | 32.5   | 45.8  | 57.3   | 61.1  |
| 48°   | 32.5   | 45.8  | 57.3   | 61.1  |
| 49°   | 32.5   | 45.8  | 57.3   | 61.1  |
| 50°   | 30.5   | 43.9  | 57.3   | 61.1  |
| 51°   | 30.5   | 43.9  | 57.3   | 61.1  |
| 52°   | 30.5   | 43.9  | 57.3   | 61.1  |
| 53°   | 30.5   | 43.9  | 57.3   | 61.1  |
| 54°   | 28.6   | 43.9  | 57.3   | 61.1  |
| 55°   | 28.6   | 43.9  | 57.3   | 61.1  |
| 56°   | 28.6   | 43.9  | 57.3   | 59.2  |
| 57°   | 28.6   | 43.9  | 55.4   | 59.2  |
| 58°   | 28.6   | 42.0  | 55.4   | 59.2  |
| 59°   | 28.6   | 42.0  | 55.4   | 59.2  |
| 60°   | 28.6   | 42.0  | 55.4   | 59.2  |
| 62.5° | 26.7   | 42.0  | 53.5   | 57.3  |
| 65°   | 24.8   | 38.2  | 53.5   | 55.4  |





TEST NUMBER: P1308488

CATALOG NUMBER: P3SQAS24R409030D010 E3SQCA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 24.8   | 36.3 | 49.6   | 53.5 |
| 70°   | 22.9   | 34.4 | 47.7   | 51.6 |
| 72.5° | 19.1   | 32.5 | 43.9   | 47.7 |
| 75°   | 17.2   | 28.6 | 40.1   | 43.9 |
| 77.5° | 15.3   | 24.8 | 36.3   | 38.2 |
| 80°   | 13.4   | 21.0 | 30.5   | 34.4 |
| 82.5° | 9.5    | 15.3 | 24.8   | 26.7 |
| 85°   | 7.6    | 11.5 | 17.2   | 19.1 |
| 87.5° | 5.7    | 5.7  | 9.5    | 9.5  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)