

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: P1311429

Luminaire Tested: P3SQAS17R159050DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R159050DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

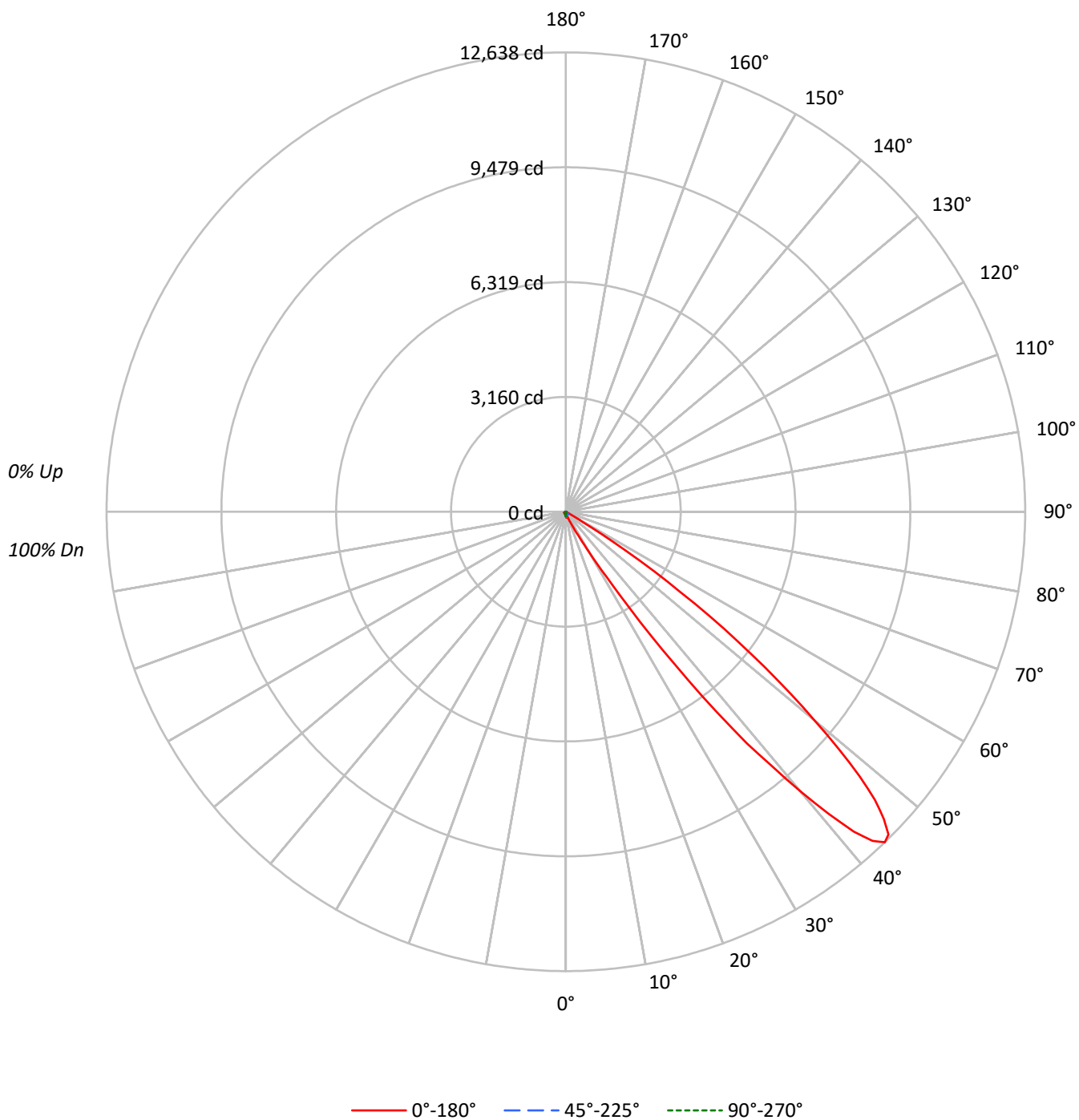
Lumens per Lamp: N/A  
Luminaire Lumens: 1411.0 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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: P1311429

CATALOG NUMBER: P3SQAS17R159050DE010 E3SQCA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1311429

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  |  | 84  | 80  | 77  |  | 81  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  |  | 64  | 58  | 53  |  | 62  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  |  | 49  | 42  | 37  |  | 48  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  |  | 44  | 36  | 31  |  | 42  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  |  | 39  | 31  | 26  |  | 37  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  |  | 34  | 27  | 22  |  | 33  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  |  | 31  | 24  | 19  |  | 30  |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 21562   | 21562 | 21562 | 21562 | 21562 |
| 5°  | 26762   | 23840 | 19466 | 17029 | 16787 |
| 10° | 26319   | 20426 | 15005 | 13291 | 13536 |
| 15° | 21824   | 14549 | 10787 | 11037 | 11785 |
| 20° | 37901   | 11601 | 8247  | 9549  | 10832 |
| 25° | 84486   | 13910 | 6689  | 8817  | 10166 |
| 30° | 252639  | 17063 | 5867  | 8671  | 10639 |
| 35° | 972572  | 19216 | 5319  | 8872  | 11248 |
| 40° | 2257425 | 16772 | 5058  | 9173  | 12028 |
| 45° | 3057598 | 12689 | 4457  | 9937  | 13030 |
| 50° | 2397419 | 7529  | 4528  | 10556 | 14334 |
| 55° | 1150720 | 3393  | 4234  | 11410 | 15644 |
| 60° | 105159  | 482   | 3892  | 12124 | 17429 |
| 65° | 11451   | 0     | 3423  | 12633 | 18909 |
| 70° | 2820    | 0     | 4230  | 13445 | 20545 |
| 75° | 2795    | 932   | 5590  | 14972 | 23423 |
| 80° | 2777    | 2777  | 6943  | 15373 | 25092 |
| 85° | 2766    | 2766  | 11066 | 13832 | 27862 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3057598 cd/sqm

TEST NUMBER: P1311429

CATALOG NUMBER: P3SQAS17R159050DE010 E3SQCA451MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.7   | 0.8       |
| 10°-20°   | 22.3   | 1.6       |
| 20°-30°   | 53.3   | 3.8       |
| 30°-40°   | 291.9  | 20.7      |
| 40°-50°   | 706.7  | 50.1      |
| 50°-60°   | 282.0  | 20.0      |
| 60°-70°   | 24.4   | 1.7       |
| 70°-80°   | 13.7   | 1.0       |
| 80°-90°   | 6.1    | 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°    | 86.3   | 6.1       |
| 0°-40°    | 378.1  | 26.8      |
| 0°-60°    | 1366.8 | 96.9      |
| 0°-90°    | 1411.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1411.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-----|-----|------|------|------|
| 0°  | 125   | 125 | 125 | 125  | 125  |      |
| 5°  | 155   | 138 | 113 | 98   | 97   | 15   |
| 15° | 122   | 82  | 60  | 62   | 66   | 43   |
| 25° | 445   | 73  | 35  | 46   | 54   | 268  |
| 35° | 4626  | 91  | 25  | 42   | 54   | 3269 |
| 45° | 12554 | 52  | 18  | 41   | 54   | 8856 |
| 55° | 3832  | 11  | 14  | 38   | 52   | 3570 |
| 65° | 28    | 0   | 8   | 31   | 46   | 72   |
| 75° | 4     | 1   | 8   | 22   | 35   | 4    |
| 85° | 1     | 1   | 6   | 7    | 14   | 1    |
| 90° | 0     | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1311429

CATALOG NUMBER: P3SQAS17R159050DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2.5°    | 5°      | 7.5°    | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 125.2   | 125.2   | 125.2   | 125.2   | 125.2  | 125.2  | 125.2  | 125.2  | 125.2  | 125.2  | 125.2 |
| 2.5°  | 140.7   | 140.7   | 142.1   | 140.7   | 140.7  | 140.7  | 140.7  | 139.3  | 139.3  | 139.3  | 135.1 |
| 5°    | 154.8   | 154.8   | 154.8   | 154.8   | 153.4  | 153.4  | 153.4  | 151.9  | 151.9  | 150.5  | 137.9 |
| 7.5°  | 160.4   | 160.4   | 159.0   | 159.0   | 157.6  | 157.6  | 156.2  | 154.8  | 153.4  | 151.9  | 132.2 |
| 10°   | 150.5   | 150.5   | 150.5   | 149.1   | 149.1  | 147.7  | 146.3  | 144.9  | 143.5  | 140.7  | 116.8 |
| 12.5° | 133.7   | 133.7   | 135.1   | 133.7   | 132.2  | 130.8  | 128.0  | 126.6  | 125.2  | 122.4  | 97.1  |
| 15°   | 122.4   | 122.4   | 122.4   | 121.0   | 119.6  | 116.8  | 115.4  | 112.6  | 111.1  | 106.9  | 81.6  |
| 17.5° | 156.2   | 156.2   | 154.8   | 151.9   | 146.3  | 142.1  | 135.1  | 129.4  | 122.4  | 114.0  | 70.3  |
| 20°   | 206.8   | 206.8   | 204.0   | 201.2   | 194.2  | 187.1  | 175.9  | 166.0  | 154.8  | 144.9  | 63.3  |
| 22.5° | 299.7   | 303.9   | 295.4   | 285.6   | 275.8  | 258.9  | 243.4  | 227.9  | 208.2  | 191.3  | 64.7  |
| 25°   | 444.6   | 448.8   | 444.6   | 422.1   | 403.8  | 381.3  | 351.7  | 320.8  | 287.0  | 256.1  | 73.2  |
| 27.5° | 720.3   | 723.1   | 716.1   | 661.2   | 631.7  | 572.6  | 520.6  | 469.9  | 413.6  | 357.4  | 80.2  |
| 30°   | 1270.4  | 1271.8  | 1226.8  | 1117.1  | 1020.0 | 890.6  | 780.8  | 675.3  | 586.7  | 496.6  | 85.8  |
| 31°   | 1672.8  | 1633.4  | 1537.7  | 1405.5  | 1250.7 | 1076.3 | 925.7  | 789.3  | 657.0  | 559.9  | 87.2  |
| 32°   | 2124.4  | 2118.8  | 1959.8  | 1730.5  | 1523.7 | 1305.6 | 1079.1 | 904.6  | 752.7  | 620.4  | 88.6  |
| 33°   | 2722.4  | 2725.2  | 2474.7  | 2204.6  | 1865.5 | 1572.9 | 1276.1 | 1036.9 | 854.0  | 692.2  | 91.4  |
| 34°   | 3656.5  | 3437.1  | 3143.0  | 2777.2  | 2315.8 | 1875.4 | 1489.9 | 1190.2 | 945.4  | 761.1  | 91.4  |
| 35°   | 4625.9  | 4405.0  | 4081.4  | 3527.1  | 2894.0 | 2277.8 | 1744.6 | 1354.8 | 1055.2 | 835.7  | 91.4  |
| 36°   | 5712.0  | 5524.9  | 5035.3  | 4327.6  | 3520.1 | 2657.6 | 2014.7 | 1544.8 | 1163.5 | 903.2  | 90.0  |
| 37°   | 6885.4  | 6611.0  | 6068.0  | 5295.6  | 4215.1 | 3192.3 | 2343.9 | 1733.3 | 1271.8 | 976.4  | 87.2  |
| 38°   | 8077.0  | 7829.4  | 7144.2  | 6208.6  | 5045.1 | 3756.4 | 2673.1 | 1914.8 | 1371.7 | 1031.3 | 83.0  |
| 39°   | 8980.2  | 8845.2  | 8165.6  | 7120.3  | 5707.8 | 4291.0 | 3012.2 | 2108.9 | 1477.2 | 1086.1 | 78.8  |
| 40°   | 10041.0 | 9823.0  | 9178.6  | 7885.7  | 6491.4 | 4835.5 | 3344.2 | 2280.6 | 1564.5 | 1129.7 | 74.6  |
| 41°   | 11009.0 | 10733.2 | 9920.1  | 8670.7  | 7118.9 | 5325.1 | 3659.3 | 2457.9 | 1634.8 | 1155.1 | 71.8  |
| 42°   | 11839.1 | 11518.3 | 10668.5 | 9343.2  | 7643.7 | 5716.2 | 3911.2 | 2584.5 | 1700.9 | 1176.2 | 67.5  |
| 43°   | 12376.5 | 12099.3 | 11263.6 | 9848.3  | 8092.5 | 6075.0 | 4146.1 | 2716.7 | 1741.7 | 1190.2 | 61.9  |
| 44°   | 12638.2 | 12358.2 | 11549.2 | 10164.9 | 8368.2 | 6290.2 | 4298.1 | 2808.2 | 1786.8 | 1208.5 | 57.7  |
| 45°   | 12553.8 | 12269.6 | 11487.3 | 10170.5 | 8454.1 | 6367.6 | 4362.8 | 2849.0 | 1810.7 | 1225.4 | 52.1  |
| 46°   | 12166.9 | 11967.1 | 11179.2 | 9906.0  | 8290.9 | 6284.6 | 4326.2 | 2818.0 | 1802.2 | 1225.4 | 46.4  |
| 47°   | 11623.8 | 11395.9 | 10646.0 | 9451.6  | 7895.5 | 6070.8 | 4178.5 | 2723.8 | 1750.2 | 1197.3 | 40.8  |
| 48°   | 10883.8 | 10689.6 | 9901.8  | 8729.8  | 7289.1 | 5605.1 | 3845.1 | 2570.4 | 1668.6 | 1142.4 | 35.2  |
| 49°   | 9955.2  | 9685.1  | 8952.1  | 7806.9  | 6498.5 | 4943.8 | 3407.5 | 2311.5 | 1537.7 | 1065.0 | 31.0  |
| 50°   | 8947.9  | 8614.4  | 8048.9  | 6882.6  | 5681.1 | 4239.0 | 2832.1 | 1954.2 | 1353.4 | 963.7  | 28.1  |
| 51°   | 7961.6  | 7622.6  | 7083.7  | 6091.9  | 4808.8 | 3517.2 | 2284.8 | 1560.3 | 1114.3 | 824.4  | 23.9  |
| 52°   | 6938.8  | 6654.6  | 6051.1  | 5271.7  | 4116.6 | 2850.4 | 1903.5 | 1319.7 | 925.7  | 692.2  | 19.7  |
| 53°   | 5920.2  | 5726.1  | 5152.1  | 4362.8  | 3307.6 | 2328.4 | 1554.6 | 1129.7 | 807.6  | 592.3  | 15.5  |
| 54°   | 4900.2  | 4687.8  | 4251.7  | 3548.2  | 2666.1 | 1837.4 | 1318.3 | 945.4  | 700.6  | 516.3  | 14.1  |
| 55°   | 3832.4  | 3722.7  | 3320.3  | 2705.5  | 2020.3 | 1466.0 | 1069.2 | 813.2  | 586.7  | 431.9  | 11.3  |
| 56°   | 2951.7  | 2827.9  | 2460.7  | 1962.6  | 1501.2 | 1148.0 | 865.2  | 664.1  | 496.6  | 361.6  | 8.4   |
| 57°   | 1933.1  | 1806.5  | 1563.1  | 1370.3  | 1093.2 | 837.1  | 661.2  | 523.4  | 403.8  | 299.7  | 7.0   |
| 58°   | 1142.4  | 1027.0  | 989.1   | 844.1   | 728.8  | 568.4  | 488.2  | 389.7  | 298.3  | 236.4  | 4.2   |
| 59°   | 524.8   | 533.2   | 474.1   | 444.6   | 403.8  | 361.6  | 296.9  | 260.3  | 204.0  | 170.2  | 2.8   |
| 60°   | 305.3   | 288.4   | 281.4   | 251.8   | 223.7  | 198.4  | 178.7  | 157.6  | 128.0  | 109.7  | 1.4   |
| 62.5° | 104.1   | 99.9    | 102.7   | 92.9    | 87.2   | 84.4   | 77.4   | 66.1   | 54.9   | 45.0   | 0.0   |
| 65°   | 28.1    | 28.1    | 26.7    | 25.3    | 23.9   | 22.5   | 21.1   | 18.3   | 16.9   | 14.1   | 0.0   |



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CATALOG NUMBER: P3SQAS17R159050DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 9.8 | 9.8  | 8.4 | 8.4  | 7.0 | 7.0   | 5.6 | 5.6   | 4.2 | 4.2   | 0.0 |
| 70°   | 5.6 | 5.6  | 5.6 | 4.2  | 4.2 | 4.2   | 2.8 | 2.8   | 2.8 | 1.4   | 0.0 |
| 72.5° | 4.2 | 4.2  | 4.2 | 4.2  | 4.2 | 4.2   | 2.8 | 2.8   | 2.8 | 1.4   | 1.4 |
| 75°   | 4.2 | 4.2  | 4.2 | 2.8  | 2.8 | 2.8   | 2.8 | 2.8   | 2.8 | 2.8   | 1.4 |
| 77.5° | 2.8 | 2.8  | 2.8 | 2.8  | 2.8 | 2.8   | 2.8 | 2.8   | 2.8 | 2.8   | 2.8 |
| 80°   | 2.8 | 2.8  | 2.8 | 2.8  | 2.8 | 2.8   | 2.8 | 2.8   | 2.8 | 1.4   | 2.8 |
| 82.5° | 1.4 | 1.4  | 1.4 | 1.4  | 1.4 | 1.4   | 1.4 | 1.4   | 1.4 | 1.4   | 2.8 |
| 85°   | 1.4 | 1.4  | 1.4 | 1.4  | 1.4 | 1.4   | 1.4 | 1.4   | 1.4 | 1.4   | 1.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.4 |
| 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: P1311429

CATALOG NUMBER: P3SQAS17R159050DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 125.2 | 125.2 | 125.2  | 125.2 | 125.2  | 125.2 |
| 2.5°  | 129.4 | 123.8 | 116.8  | 112.6 | 111.1  | 109.7 |
| 5°    | 123.8 | 112.6 | 104.1  | 98.5  | 97.1   | 97.1  |
| 7.5°  | 111.1 | 98.5  | 90.0   | 87.2  | 85.8   | 85.8  |
| 10°   | 97.1  | 85.8  | 78.8   | 76.0  | 77.4   | 77.4  |
| 12.5° | 81.6  | 71.8  | 68.9   | 68.9  | 70.3   | 71.8  |
| 15°   | 66.1  | 60.5  | 60.5   | 61.9  | 64.7   | 66.1  |
| 17.5° | 54.9  | 52.1  | 53.5   | 56.3  | 59.1   | 61.9  |
| 20°   | 45.0  | 45.0  | 47.8   | 52.1  | 56.3   | 59.1  |
| 22.5° | 38.0  | 39.4  | 43.6   | 47.8  | 53.5   | 56.3  |
| 25°   | 32.4  | 35.2  | 39.4   | 46.4  | 52.1   | 53.5  |
| 27.5° | 28.1  | 32.4  | 38.0   | 45.0  | 50.6   | 53.5  |
| 30°   | 23.9  | 29.5  | 36.6   | 43.6  | 50.6   | 53.5  |
| 31°   | 22.5  | 28.1  | 35.2   | 43.6  | 50.6   | 53.5  |
| 32°   | 21.1  | 28.1  | 35.2   | 43.6  | 50.6   | 53.5  |
| 33°   | 19.7  | 26.7  | 35.2   | 42.2  | 50.6   | 53.5  |
| 34°   | 18.3  | 26.7  | 35.2   | 43.6  | 50.6   | 53.5  |
| 35°   | 16.9  | 25.3  | 33.8   | 42.2  | 49.2   | 53.5  |
| 36°   | 15.5  | 25.3  | 33.8   | 42.2  | 50.6   | 53.5  |
| 37°   | 14.1  | 25.3  | 33.8   | 42.2  | 49.2   | 53.5  |
| 38°   | 14.1  | 23.9  | 32.4   | 42.2  | 49.2   | 53.5  |
| 39°   | 12.7  | 22.5  | 32.4   | 42.2  | 49.2   | 53.5  |
| 40°   | 11.3  | 22.5  | 31.0   | 40.8  | 49.2   | 53.5  |
| 41°   | 9.8   | 21.1  | 31.0   | 40.8  | 49.2   | 53.5  |
| 42°   | 8.4   | 21.1  | 31.0   | 40.8  | 49.2   | 53.5  |
| 43°   | 7.0   | 19.7  | 29.5   | 40.8  | 49.2   | 53.5  |
| 44°   | 7.0   | 19.7  | 29.5   | 40.8  | 49.2   | 53.5  |
| 45°   | 5.6   | 18.3  | 28.1   | 40.8  | 49.2   | 53.5  |
| 46°   | 5.6   | 18.3  | 28.1   | 39.4  | 49.2   | 53.5  |
| 47°   | 4.2   | 18.3  | 28.1   | 39.4  | 49.2   | 53.5  |
| 48°   | 4.2   | 16.9  | 28.1   | 39.4  | 49.2   | 53.5  |
| 49°   | 2.8   | 16.9  | 28.1   | 39.4  | 49.2   | 53.5  |
| 50°   | 2.8   | 16.9  | 26.7   | 39.4  | 49.2   | 53.5  |
| 51°   | 2.8   | 16.9  | 26.7   | 39.4  | 49.2   | 53.5  |
| 52°   | 2.8   | 15.5  | 26.7   | 39.4  | 49.2   | 53.5  |
| 53°   | 2.8   | 15.5  | 26.7   | 39.4  | 49.2   | 53.5  |
| 54°   | 2.8   | 15.5  | 25.3   | 39.4  | 49.2   | 53.5  |
| 55°   | 2.8   | 14.1  | 25.3   | 38.0  | 49.2   | 52.1  |
| 56°   | 2.8   | 14.1  | 25.3   | 38.0  | 49.2   | 52.1  |
| 57°   | 2.8   | 14.1  | 23.9   | 38.0  | 49.2   | 52.1  |
| 58°   | 2.8   | 12.7  | 23.9   | 36.6  | 47.8   | 52.1  |
| 59°   | 2.8   | 12.7  | 22.5   | 36.6  | 47.8   | 50.6  |
| 60°   | 2.8   | 11.3  | 22.5   | 35.2  | 46.4   | 50.6  |
| 62.5° | 2.8   | 9.8   | 19.7   | 33.8  | 45.0   | 47.8  |
| 65°   | 2.8   | 8.4   | 18.3   | 31.0  | 43.6   | 46.4  |



TEST NUMBER: P1311429

CATALOG NUMBER: P3SQAS17R159050DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 2.8   | 8.4 | 16.9   | 29.5 | 40.8   | 45.0 |
| 70°   | 2.8   | 8.4 | 15.5   | 26.7 | 39.4   | 40.8 |
| 72.5° | 4.2   | 8.4 | 14.1   | 25.3 | 36.6   | 38.0 |
| 75°   | 5.6   | 8.4 | 12.7   | 22.5 | 33.8   | 35.2 |
| 77.5° | 5.6   | 8.4 | 11.3   | 19.7 | 29.5   | 31.0 |
| 80°   | 5.6   | 7.0 | 9.8    | 15.5 | 23.9   | 25.3 |
| 82.5° | 5.6   | 7.0 | 7.0    | 12.7 | 18.3   | 19.7 |
| 85°   | 4.2   | 5.6 | 5.6    | 7.0  | 12.7   | 14.1 |
| 87.5° | 4.2   | 5.6 | 2.8    | 4.2  | 5.6    | 5.6  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)