

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: P1318173

Luminaire Tested: P3SQAS17R409835DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318173  
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: P3SQAS17R409835DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

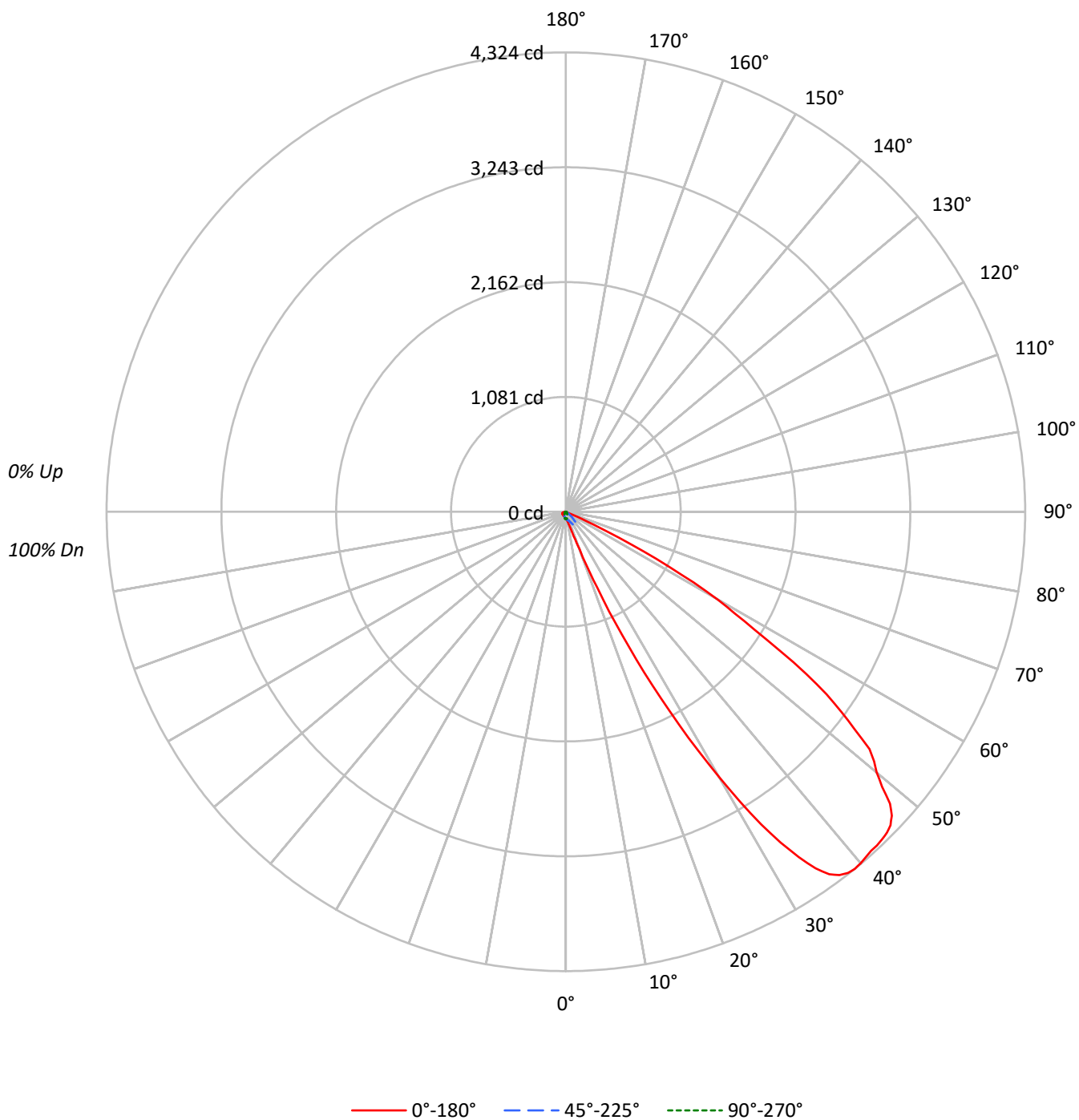
Lumens per Lamp: N/A  
Luminaire Lumens: 1336.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P1318173

CATALOG NUMBER: P3SQAS17R409835DE010 E3SQCA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1318173

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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  | 0   |
| 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°  | 11832   | 11832 | 11832 | 11832 | 11832 |
| 5°  | 13156   | 12724 | 11669 | 10598 | 10390 |
| 10° | 15879   | 13518 | 10720 | 9653  | 9443  |
| 15° | 26032   | 14656 | 9182  | 8540  | 8754  |
| 20° | 68802   | 17320 | 7643  | 7643  | 8321  |
| 25° | 265315  | 21454 | 6062  | 6993  | 8152  |
| 30° | 572415  | 28557 | 4872  | 6841  | 8054  |
| 35° | 861563  | 33786 | 4121  | 6707  | 8263  |
| 40° | 970686  | 33925 | 3597  | 6902  | 8835  |
| 45° | 1040828 | 26304 | 3288  | 7161  | 9572  |
| 50° | 1023014 | 16424 | 2947  | 7556  | 10530 |
| 55° | 900002  | 8107  | 2943  | 8467  | 11800 |
| 60° | 569678  | 1688  | 3376  | 9300  | 13089 |
| 65° | 116508  | 489   | 3505  | 9984  | 14507 |
| 70° | 2467    | 604   | 3726  | 11128 | 16667 |
| 75° | 2462    | 1664  | 4059  | 12244 | 18765 |
| 80° | 2479    | 1190  | 4860  | 13389 | 21919 |
| 85° | 2371    | 2371  | 9683  | 14623 | 24305 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1059626 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.4    | 0.5       |
| 10°-20°   | 21.2   | 1.6       |
| 20°-30°   | 103.8  | 7.8       |
| 30°-40°   | 337.5  | 25.3      |
| 40°-50°   | 465.3  | 34.8      |
| 50°-60°   | 324.1  | 24.3      |
| 60°-70°   | 61.5   | 4.6       |
| 70°-80°   | 11.1   | 0.8       |
| 80°-90°   | 5.1    | 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°    | 131.4  | 9.8       |
| 0°-40°    | 468.9  | 35.1      |
| 0°-60°    | 1258.3 | 94.2      |
| 0°-90°    | 1336.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1336.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 69   | 69  | 69  | 69   | 69   |      |
| 5°  | 76   | 74  | 68  | 61   | 60   | 8    |
| 15° | 146  | 82  | 52  | 48   | 49   | 53   |
| 25° | 1396 | 113 | 32  | 37   | 43   | 719  |
| 35° | 4098 | 161 | 20  | 32   | 39   | 2476 |
| 45° | 4273 | 108 | 14  | 29   | 39   | 3250 |
| 55° | 2997 | 27  | 10  | 28   | 39   | 2562 |
| 65° | 286  | 1   | 9   | 24   | 36   | 506  |
| 75° | 4    | 2   | 6   | 18   | 28   | 4    |
| 85° | 1    | 1   | 5   | 7    | 12   | 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°    | 68.7   | 68.7   | 68.7   | 68.7   | 68.7   | 68.7   | 68.7   | 68.7  | 68.7  | 68.7  | 68.7 |
| 2.5°  | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2   | 71.2  | 71.2  | 69.9  | 68.7 |
| 5°    | 76.1   | 76.1   | 76.1   | 76.1   | 74.8   | 74.8   | 74.8   | 73.6  | 73.6  | 71.2  | 67.5 |
| 7.5°  | 81.0   | 81.0   | 81.0   | 81.0   | 79.8   | 78.5   | 77.3   | 77.3  | 76.1  | 69.9  | 65.0 |
| 10°   | 90.8   | 90.8   | 89.6   | 88.3   | 87.1   | 84.7   | 83.4   | 81.0  | 77.3  | 68.7  | 61.3 |
| 12.5° | 110.4  | 108.0  | 106.7  | 104.3  | 100.6  | 95.7   | 90.8   | 87.1  | 78.5  | 66.3  | 57.7 |
| 15°   | 146.0  | 143.6  | 138.6  | 131.3  | 123.9  | 114.1  | 105.5  | 96.9  | 82.2  | 62.6  | 51.5 |
| 17.5° | 208.6  | 201.2  | 193.9  | 181.6  | 163.2  | 146.0  | 127.6  | 111.7 | 87.1  | 58.9  | 46.6 |
| 20°   | 375.4  | 370.5  | 326.4  | 292.0  | 236.8  | 197.5  | 160.7  | 133.7 | 94.5  | 55.2  | 41.7 |
| 22.5° | 774.2  | 722.7  | 650.3  | 532.5  | 414.7  | 305.5  | 222.1  | 168.1 | 101.8 | 50.3  | 36.8 |
| 25°   | 1396.2 | 1315.3 | 1159.4 | 932.5  | 688.3  | 487.1  | 321.5  | 219.6 | 112.9 | 45.4  | 31.9 |
| 27.5° | 2114.0 | 2031.8 | 1790.1 | 1477.2 | 1078.5 | 734.9  | 458.9  | 290.8 | 127.6 | 40.5  | 28.2 |
| 30°   | 2878.4 | 2808.4 | 2501.7 | 2068.6 | 1520.2 | 1029.4 | 614.7  | 363.2 | 143.6 | 35.6  | 24.5 |
| 31°   | 3186.3 | 3096.8 | 2765.5 | 2304.2 | 1727.5 | 1150.9 | 677.3  | 393.8 | 149.7 | 34.4  | 23.3 |
| 32°   | 3469.8 | 3367.9 | 3024.4 | 2529.9 | 1895.6 | 1282.1 | 746.0  | 420.8 | 154.6 | 31.9  | 22.1 |
| 33°   | 3713.9 | 3594.9 | 3263.6 | 2743.4 | 2080.9 | 1404.8 | 817.1  | 446.6 | 158.3 | 29.4  | 20.9 |
| 34°   | 3921.3 | 3818.2 | 3462.4 | 2958.1 | 2245.3 | 1522.6 | 887.1  | 472.4 | 160.7 | 28.2  | 19.6 |
| 35°   | 4097.9 | 4004.7 | 3652.6 | 3121.3 | 2406.0 | 1636.7 | 950.9  | 496.9 | 160.7 | 25.8  | 19.6 |
| 36°   | 4217.0 | 4136.0 | 3817.0 | 3288.2 | 2541.0 | 1733.7 | 1004.9 | 519.0 | 160.7 | 23.3  | 18.4 |
| 37°   | 4282.0 | 4203.5 | 3925.0 | 3425.6 | 2673.5 | 1829.4 | 1053.9 | 536.2 | 159.5 | 22.1  | 17.2 |
| 38°   | 4315.1 | 4246.4 | 4004.7 | 3537.2 | 2765.5 | 1898.1 | 1096.9 | 549.7 | 158.3 | 19.6  | 17.2 |
| 39°   | 4323.7 | 4266.0 | 4055.0 | 3618.2 | 2855.1 | 1966.8 | 1127.5 | 557.0 | 154.6 | 18.4  | 16.0 |
| 40°   | 4317.6 | 4267.3 | 4082.0 | 3690.6 | 2923.8 | 2020.8 | 1149.6 | 559.5 | 150.9 | 16.0  | 16.0 |
| 41°   | 4305.3 | 4266.0 | 4101.6 | 3740.9 | 2979.0 | 2055.1 | 1158.2 | 554.6 | 146.0 | 13.5  | 14.7 |
| 42°   | 4294.3 | 4251.3 | 4110.2 | 3775.3 | 3017.0 | 2072.3 | 1157.0 | 544.8 | 138.6 | 12.3  | 14.7 |
| 43°   | 4294.3 | 4245.2 | 4111.4 | 3797.3 | 3035.4 | 2073.5 | 1142.3 | 526.4 | 128.8 | 11.0  | 13.5 |
| 44°   | 4286.9 | 4241.5 | 4117.6 | 3812.1 | 3040.3 | 2062.5 | 1119.0 | 506.7 | 117.8 | 9.8   | 13.5 |
| 45°   | 4273.4 | 4225.5 | 4116.4 | 3813.3 | 3031.7 | 2035.5 | 1080.9 | 481.0 | 108.0 | 7.4   | 13.5 |
| 46°   | 4247.6 | 4204.7 | 4105.3 | 3804.7 | 3006.0 | 1996.2 | 1035.5 | 455.2 | 96.9  | 6.1   | 12.3 |
| 47°   | 4196.1 | 4163.0 | 4075.9 | 3775.3 | 2966.7 | 1938.5 | 981.5  | 425.7 | 88.3  | 4.9   | 12.3 |
| 48°   | 4107.8 | 4084.5 | 4025.6 | 3710.2 | 2891.9 | 1867.4 | 923.9  | 393.8 | 79.8  | 4.9   | 12.3 |
| 49°   | 3945.8 | 3927.4 | 3893.0 | 3605.9 | 2796.2 | 1780.3 | 861.3  | 358.3 | 71.2  | 3.7   | 12.3 |
| 50°   | 3818.2 | 3798.6 | 3728.6 | 3430.5 | 2658.8 | 1669.9 | 792.6  | 322.7 | 61.3  | 2.5   | 11.0 |
| 51°   | 3733.5 | 3701.6 | 3591.2 | 3226.8 | 2458.8 | 1522.6 | 717.8  | 287.1 | 51.5  | 2.5   | 11.0 |
| 52°   | 3626.8 | 3579.0 | 3441.5 | 3044.0 | 2276.0 | 1375.4 | 636.8  | 251.5 | 45.4  | 2.5   | 11.0 |
| 53°   | 3403.5 | 3386.3 | 3250.1 | 2847.7 | 2093.1 | 1234.3 | 553.3  | 222.1 | 39.3  | 2.5   | 11.0 |
| 54°   | 3208.4 | 3182.7 | 2997.4 | 2575.3 | 1894.4 | 1077.2 | 467.5  | 196.3 | 33.1  | 2.5   | 11.0 |
| 55°   | 2997.4 | 2947.1 | 2782.7 | 2345.9 | 1661.3 | 932.5  | 385.3  | 169.3 | 27.0  | 2.5   | 9.8  |
| 56°   | 2731.1 | 2687.0 | 2510.3 | 2100.5 | 1446.6 | 785.2  | 322.7  | 138.6 | 20.9  | 2.5   | 9.8  |
| 57°   | 2407.2 | 2366.7 | 2230.6 | 1798.7 | 1223.2 | 641.7  | 262.6  | 111.7 | 16.0  | 2.5   | 9.8  |
| 58°   | 2094.4 | 2049.0 | 1893.2 | 1509.1 | 987.7  | 509.2  | 219.6  | 90.8  | 12.3  | 2.5   | 9.8  |
| 59°   | 1853.9 | 1792.5 | 1591.3 | 1267.4 | 773.0  | 386.5  | 174.2  | 72.4  | 8.6   | 2.5   | 9.8  |
| 60°   | 1653.9 | 1603.6 | 1395.0 | 1055.2 | 606.1  | 284.6  | 128.8  | 55.2  | 4.9   | 2.5   | 9.8  |
| 62.5° | 958.2  | 944.7  | 757.0  | 543.5  | 285.9  | 132.5  | 63.8   | 25.8  | 2.5   | 3.7   | 9.8  |
| 65°   | 285.9  | 249.1  | 193.9  | 115.3  | 73.6   | 44.2   | 23.3   | 8.6   | 1.2   | 3.7   | 8.6  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 4.9 | 2.5 | 1.2 | 3.7   | 8.6 |
| 70°   | 4.9 | 3.7 | 3.7 | 3.7 | 3.7 | 2.5 | 2.5 | 1.2 | 1.2 | 3.7   | 7.4 |
| 72.5° | 3.7 | 3.7 | 3.7 | 3.7 | 2.5 | 2.5 | 2.5 | 1.2 | 2.5 | 3.7   | 6.1 |
| 75°   | 3.7 | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7   | 6.1 |
| 77.5° | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7   | 6.1 |
| 80°   | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7   | 4.9 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7   | 4.9 |
| 85°   | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7   | 4.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 3.7   | 3.7 |
| 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°    | 68.7   | 68.7 | 68.7   | 68.7 |
| 2.5°  | 66.3   | 65.0 | 63.8   | 63.8 |
| 5°    | 63.8   | 61.3 | 61.3   | 60.1 |
| 7.5°  | 60.1   | 57.7 | 57.7   | 57.7 |
| 10°   | 56.4   | 55.2 | 55.2   | 54.0 |
| 12.5° | 51.5   | 51.5 | 51.5   | 51.5 |
| 15°   | 47.9   | 47.9 | 49.1   | 49.1 |
| 17.5° | 42.9   | 44.2 | 46.6   | 47.9 |
| 20°   | 39.3   | 41.7 | 44.2   | 45.4 |
| 22.5° | 36.8   | 39.3 | 42.9   | 44.2 |
| 25°   | 33.1   | 36.8 | 41.7   | 42.9 |
| 27.5° | 30.7   | 35.6 | 39.3   | 41.7 |
| 30°   | 28.2   | 34.4 | 38.0   | 40.5 |
| 31°   | 28.2   | 33.1 | 38.0   | 40.5 |
| 32°   | 27.0   | 31.9 | 38.0   | 39.3 |
| 33°   | 27.0   | 31.9 | 38.0   | 39.3 |
| 34°   | 25.8   | 31.9 | 36.8   | 39.3 |
| 35°   | 25.8   | 31.9 | 36.8   | 39.3 |
| 36°   | 24.5   | 30.7 | 36.8   | 39.3 |
| 37°   | 24.5   | 30.7 | 36.8   | 39.3 |
| 38°   | 23.3   | 30.7 | 36.8   | 39.3 |
| 39°   | 23.3   | 30.7 | 36.8   | 39.3 |
| 40°   | 23.3   | 30.7 | 36.8   | 39.3 |
| 41°   | 22.1   | 30.7 | 36.8   | 39.3 |
| 42°   | 22.1   | 30.7 | 36.8   | 39.3 |
| 43°   | 22.1   | 29.4 | 36.8   | 39.3 |
| 44°   | 22.1   | 29.4 | 36.8   | 39.3 |
| 45°   | 20.9   | 29.4 | 36.8   | 39.3 |
| 46°   | 20.9   | 29.4 | 36.8   | 39.3 |
| 47°   | 20.9   | 29.4 | 36.8   | 39.3 |
| 48°   | 20.9   | 29.4 | 36.8   | 39.3 |
| 49°   | 20.9   | 29.4 | 36.8   | 39.3 |
| 50°   | 19.6   | 28.2 | 36.8   | 39.3 |
| 51°   | 19.6   | 28.2 | 36.8   | 39.3 |
| 52°   | 19.6   | 28.2 | 36.8   | 39.3 |
| 53°   | 19.6   | 28.2 | 36.8   | 39.3 |
| 54°   | 18.4   | 28.2 | 36.8   | 39.3 |
| 55°   | 18.4   | 28.2 | 36.8   | 39.3 |
| 56°   | 18.4   | 28.2 | 36.8   | 38.0 |
| 57°   | 18.4   | 28.2 | 35.6   | 38.0 |
| 58°   | 18.4   | 27.0 | 35.6   | 38.0 |
| 59°   | 18.4   | 27.0 | 35.6   | 38.0 |
| 60°   | 18.4   | 27.0 | 35.6   | 38.0 |
| 62.5° | 17.2   | 27.0 | 34.4   | 36.8 |
| 65°   | 16.0   | 24.5 | 34.4   | 35.6 |



TEST NUMBER: P1318173

CATALOG NUMBER: P3SQAS17R409835DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 16.0   | 23.3 | 31.9   | 34.4 |
| 70°   | 14.7   | 22.1 | 30.7   | 33.1 |
| 72.5° | 12.3   | 20.9 | 28.2   | 30.7 |
| 75°   | 11.0   | 18.4 | 25.8   | 28.2 |
| 77.5° | 9.8    | 16.0 | 23.3   | 24.5 |
| 80°   | 8.6    | 13.5 | 19.6   | 22.1 |
| 82.5° | 6.1    | 9.8  | 16.0   | 17.2 |
| 85°   | 4.9    | 7.4  | 11.0   | 12.3 |
| 87.5° | 3.7    | 3.7  | 6.1    | 6.1  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)