

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: P1313506

Luminaire Tested: P3SQAS17R159730DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313506  
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: P3SQAS17R159730DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

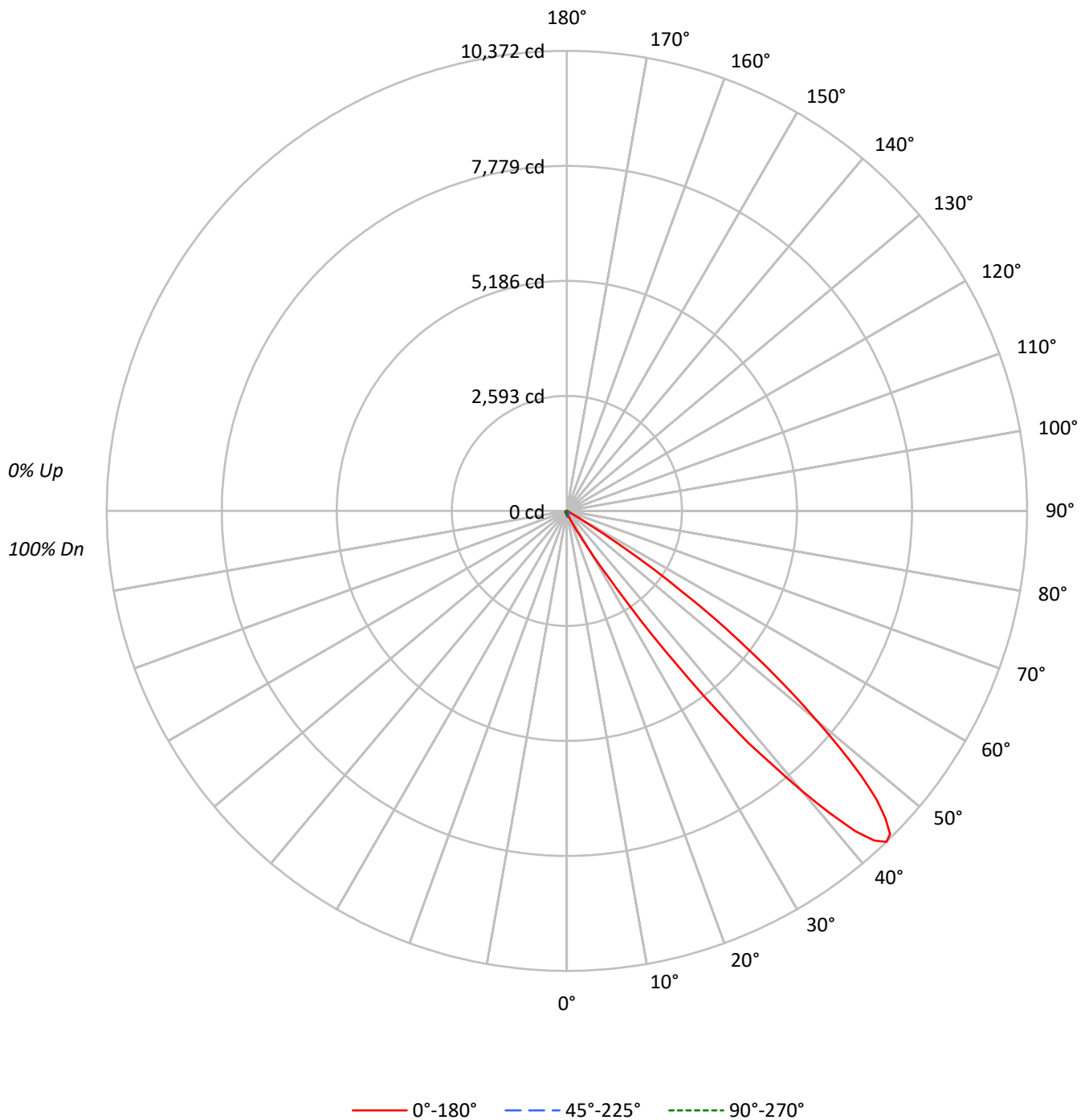
Lumens per Lamp: N/A  
Luminaire Lumens: 1158.0 lumens  
Efficiency: N/A  
Efficacy: 54.6 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1313506

CATALOG NUMBER: P3SQAS17R159730DE010 E3SQCA451MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1313506

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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  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 17704   | 17704 | 17704 | 17704 | 17704 |
| 5°  | 21956   | 19570 | 15974 | 13969 | 13779 |
| 10° | 21598   | 16753 | 12312 | 10912 | 11105 |
| 15° | 17919   | 11946 | 8844  | 9058  | 9682  |
| 20° | 31102   | 9530  | 6763  | 7826  | 8889  |
| 25° | 69341   | 11402 | 5492  | 7240  | 8342  |
| 30° | 207337  | 14000 | 4813  | 7119  | 8730  |
| 35° | 798174  | 15789 | 4373  | 7274  | 9230  |
| 40° | 1852657 | 13759 | 4159  | 7531  | 9870  |
| 45° | 2509346 | 10400 | 3653  | 8159  | 10692 |
| 50° | 1967550 | 6189  | 3724  | 8654  | 11762 |
| 55° | 944381  | 2762  | 3453  | 9368  | 12821 |
| 60° | 86318   | 413   | 3169  | 9954  | 14329 |
| 65° | 9414    | 0     | 2812  | 10351 | 15526 |
| 70° | 2316    | 0     | 3474  | 11028 | 16869 |
| 75° | 2329    | 799   | 4591  | 12310 | 19231 |
| 80° | 2281    | 2281  | 5752  | 12596 | 20629 |
| 85° | 2371    | 2371  | 9090  | 11461 | 22724 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2509346 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.8    | 0.8       |
| 10°-20°   | 18.3   | 1.6       |
| 20°-30°   | 43.8   | 3.8       |
| 30°-40°   | 239.5  | 20.7      |
| 40°-50°   | 580.0  | 50.1      |
| 50°-60°   | 231.4  | 20.0      |
| 60°-70°   | 20.0   | 1.7       |
| 70°-80°   | 11.3   | 1.0       |
| 80°-90°   | 5.0    | 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°    | 70.8   | 6.1       |
| 0°-40°    | 310.3  | 26.8      |
| 0°-60°    | 1121.7 | 96.9      |
| 0°-90°    | 1158.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1158.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-----|-----|------|------|------|
| 0°  | 103   | 103 | 103 | 103  | 103  |      |
| 5°  | 127   | 113 | 92  | 81   | 80   | 12   |
| 15° | 100   | 67  | 50  | 51   | 54   | 35   |
| 25° | 365   | 60  | 29  | 38   | 44   | 220  |
| 35° | 3796  | 75  | 21  | 35   | 44   | 2683 |
| 45° | 10303 | 43  | 15  | 34   | 44   | 7268 |
| 55° | 3145  | 9   | 12  | 31   | 43   | 2930 |
| 65° | 23    | 0   | 7   | 25   | 38   | 59   |
| 75° | 4     | 1   | 7   | 18   | 29   | 3    |
| 85° | 1     | 1   | 5   | 6    | 12   | 1    |
| 90° | 0     | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1313506

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2.5°    | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 102.8   | 102.8   | 102.8  | 102.8  | 102.8  | 102.8  | 102.8  | 102.8  | 102.8  | 102.8  | 102.8 |
| 2.5°  | 115.5   | 115.5   | 116.6  | 115.5  | 115.5  | 115.5  | 115.5  | 114.3  | 114.3  | 114.3  | 110.8 |
| 5°    | 127.0   | 127.0   | 127.0  | 127.0  | 125.9  | 125.9  | 125.9  | 124.7  | 124.7  | 123.5  | 113.2 |
| 7.5°  | 131.6   | 131.6   | 130.5  | 130.5  | 129.3  | 129.3  | 128.2  | 127.0  | 125.9  | 124.7  | 108.5 |
| 10°   | 123.5   | 123.5   | 123.5  | 122.4  | 122.4  | 121.2  | 120.1  | 118.9  | 117.8  | 115.5  | 95.8  |
| 12.5° | 109.7   | 109.7   | 110.8  | 109.7  | 108.5  | 107.4  | 105.1  | 103.9  | 102.8  | 100.5  | 79.7  |
| 15°   | 100.5   | 100.5   | 100.5  | 99.3   | 98.1   | 95.8   | 94.7   | 92.4   | 91.2   | 87.8   | 67.0  |
| 17.5° | 128.2   | 128.2   | 127.0  | 124.7  | 120.1  | 116.6  | 110.8  | 106.2  | 100.5  | 93.5   | 57.7  |
| 20°   | 169.7   | 169.7   | 167.4  | 165.1  | 159.3  | 153.6  | 144.3  | 136.2  | 127.0  | 118.9  | 52.0  |
| 22.5° | 245.9   | 249.4   | 242.5  | 234.4  | 226.3  | 212.5  | 199.8  | 187.1  | 170.9  | 157.0  | 53.1  |
| 25°   | 364.9   | 368.3   | 364.9  | 346.4  | 331.4  | 312.9  | 288.7  | 263.3  | 235.5  | 210.1  | 60.0  |
| 27.5° | 591.2   | 593.5   | 587.7  | 542.7  | 518.4  | 469.9  | 427.2  | 385.6  | 339.5  | 293.3  | 65.8  |
| 30°   | 1042.6  | 1043.8  | 1006.8 | 916.8  | 837.1  | 730.9  | 640.8  | 554.2  | 481.5  | 407.6  | 70.4  |
| 31°   | 1372.9  | 1340.5  | 1262.0 | 1153.5 | 1026.5 | 883.3  | 759.7  | 647.8  | 539.2  | 459.5  | 71.6  |
| 32°   | 1743.5  | 1738.9  | 1608.4 | 1420.2 | 1250.5 | 1071.5 | 885.6  | 742.4  | 617.7  | 509.2  | 72.7  |
| 33°   | 2234.2  | 2236.5  | 2031.0 | 1809.3 | 1531.0 | 1290.9 | 1047.3 | 851.0  | 700.9  | 568.1  | 75.1  |
| 34°   | 3000.9  | 2820.8  | 2579.5 | 2279.2 | 1900.5 | 1539.1 | 1222.8 | 976.8  | 775.9  | 624.7  | 75.1  |
| 35°   | 3796.4  | 3615.2  | 3349.6 | 2894.7 | 2375.1 | 1869.4 | 1431.7 | 1111.9 | 866.0  | 685.9  | 75.1  |
| 36°   | 4687.8  | 4534.3  | 4132.4 | 3551.7 | 2888.9 | 2181.1 | 1653.4 | 1267.8 | 954.9  | 741.3  | 73.9  |
| 37°   | 5650.8  | 5425.6  | 4979.9 | 4346.0 | 3459.3 | 2619.9 | 1923.6 | 1422.5 | 1043.8 | 801.3  | 71.6  |
| 38°   | 6628.8  | 6425.5  | 5863.2 | 5095.4 | 4140.5 | 3082.9 | 2193.8 | 1571.5 | 1125.8 | 846.3  | 68.1  |
| 39°   | 7370.0  | 7259.2  | 6701.5 | 5843.6 | 4684.4 | 3521.6 | 2472.1 | 1730.8 | 1212.4 | 891.4  | 64.7  |
| 40°   | 8240.6  | 8061.7  | 7532.8 | 6471.7 | 5327.5 | 3968.5 | 2744.6 | 1871.7 | 1284.0 | 927.2  | 61.2  |
| 41°   | 9035.0  | 8808.7  | 8141.3 | 7116.0 | 5842.5 | 4370.3 | 3003.2 | 2017.1 | 1341.7 | 948.0  | 58.9  |
| 42°   | 9716.3  | 9453.0  | 8755.6 | 7667.9 | 6273.1 | 4691.3 | 3209.9 | 2121.1 | 1396.0 | 965.3  | 55.4  |
| 43°   | 10157.3 | 9929.9  | 9244.0 | 8082.4 | 6641.5 | 4985.7 | 3402.7 | 2229.6 | 1429.4 | 976.8  | 50.8  |
| 44°   | 10372.1 | 10142.3 | 9478.4 | 8342.2 | 6867.8 | 5162.4 | 3527.4 | 2304.7 | 1466.4 | 991.8  | 47.3  |
| 45°   | 10302.8 | 10069.6 | 9427.6 | 8346.9 | 6938.2 | 5225.9 | 3580.5 | 2338.1 | 1486.0 | 1005.7 | 42.7  |
| 46°   | 9985.3  | 9821.3  | 9174.7 | 8129.8 | 6804.3 | 5157.8 | 3550.5 | 2312.7 | 1479.1 | 1005.7 | 38.1  |
| 47°   | 9539.6  | 9352.5  | 8737.1 | 7756.8 | 6479.8 | 4982.2 | 3429.3 | 2235.4 | 1436.4 | 982.6  | 33.5  |
| 48°   | 8932.3  | 8772.9  | 8126.3 | 7164.5 | 5982.2 | 4600.1 | 3155.6 | 2109.5 | 1369.4 | 937.6  | 28.9  |
| 49°   | 8170.2  | 7948.5  | 7346.9 | 6407.1 | 5333.3 | 4057.4 | 2796.5 | 1897.1 | 1262.0 | 874.1  | 25.4  |
| 50°   | 7343.5  | 7069.8  | 6605.7 | 5648.5 | 4662.4 | 3478.9 | 2324.3 | 1603.8 | 1110.8 | 790.9  | 23.1  |
| 51°   | 6534.1  | 6255.8  | 5813.6 | 4999.6 | 3946.5 | 2886.6 | 1875.1 | 1280.5 | 914.5  | 676.6  | 19.6  |
| 52°   | 5694.7  | 5461.4  | 4966.1 | 4326.4 | 3378.5 | 2339.3 | 1562.2 | 1083.0 | 759.7  | 568.1  | 16.2  |
| 53°   | 4858.7  | 4699.4  | 4228.3 | 3580.5 | 2714.5 | 1910.9 | 1275.9 | 927.2  | 662.8  | 486.1  | 12.7  |
| 54°   | 4021.6  | 3847.2  | 3489.3 | 2912.0 | 2188.0 | 1508.0 | 1081.9 | 775.9  | 575.0  | 423.8  | 11.5  |
| 55°   | 3145.2  | 3055.2  | 2724.9 | 2220.4 | 1658.1 | 1203.1 | 877.5  | 667.4  | 481.5  | 354.5  | 9.2   |
| 56°   | 2422.4  | 2320.8  | 2019.5 | 1610.7 | 1232.0 | 942.2  | 710.1  | 545.0  | 407.6  | 296.7  | 6.9   |
| 57°   | 1586.5  | 1482.6  | 1282.8 | 1124.6 | 897.2  | 687.0  | 542.7  | 429.5  | 331.4  | 245.9  | 5.8   |
| 58°   | 937.6   | 842.9   | 811.7  | 692.8  | 598.1  | 466.5  | 400.7  | 319.8  | 244.8  | 194.0  | 3.5   |
| 59°   | 430.7   | 437.6   | 389.1  | 364.9  | 331.4  | 296.7  | 243.6  | 213.6  | 167.4  | 139.7  | 2.3   |
| 60°   | 250.6   | 236.7   | 230.9  | 206.7  | 183.6  | 162.8  | 146.6  | 129.3  | 105.1  | 90.1   | 1.2   |
| 62.5° | 85.4    | 82.0    | 84.3   | 76.2   | 71.6   | 69.3   | 63.5   | 54.3   | 45.0   | 36.9   | 0.0   |
| 65°   | 23.1    | 23.1    | 21.9   | 20.8   | 19.6   | 18.5   | 17.3   | 15.0   | 13.9   | 11.5   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 8.1 | 8.1  | 6.9 | 6.9  | 5.8 | 5.8   | 4.6 | 4.6   | 3.5 | 3.5   | 0.0 |
| 70°   | 4.6 | 4.6  | 4.6 | 3.5  | 3.5 | 3.5   | 2.3 | 2.3   | 2.3 | 1.2   | 0.0 |
| 72.5° | 3.5 | 3.5  | 3.5 | 3.5  | 3.5 | 3.5   | 2.3 | 2.3   | 2.3 | 1.2   | 1.2 |
| 75°   | 3.5 | 3.5  | 3.5 | 2.3  | 2.3 | 2.3   | 2.3 | 2.3   | 2.3 | 2.3   | 1.2 |
| 77.5° | 2.3 | 2.3  | 2.3 | 2.3  | 2.3 | 2.3   | 2.3 | 2.3   | 2.3 | 2.3   | 2.3 |
| 80°   | 2.3 | 2.3  | 2.3 | 2.3  | 2.3 | 2.3   | 2.3 | 2.3   | 2.3 | 1.2   | 2.3 |
| 82.5° | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 2.3 |
| 85°   | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 | 1.2   | 1.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.2 |
| 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°    | 102.8 | 102.8 | 102.8  | 102.8 | 102.8  | 102.8 |
| 2.5°  | 106.2 | 101.6 | 95.8   | 92.4  | 91.2   | 90.1  |
| 5°    | 101.6 | 92.4  | 85.4   | 80.8  | 79.7   | 79.7  |
| 7.5°  | 91.2  | 80.8  | 73.9   | 71.6  | 70.4   | 70.4  |
| 10°   | 79.7  | 70.4  | 64.7   | 62.4  | 63.5   | 63.5  |
| 12.5° | 67.0  | 58.9  | 56.6   | 56.6  | 57.7   | 58.9  |
| 15°   | 54.3  | 49.6  | 49.6   | 50.8  | 53.1   | 54.3  |
| 17.5° | 45.0  | 42.7  | 43.9   | 46.2  | 48.5   | 50.8  |
| 20°   | 36.9  | 36.9  | 39.3   | 42.7  | 46.2   | 48.5  |
| 22.5° | 31.2  | 32.3  | 35.8   | 39.3  | 43.9   | 46.2  |
| 25°   | 26.6  | 28.9  | 32.3   | 38.1  | 42.7   | 43.9  |
| 27.5° | 23.1  | 26.6  | 31.2   | 36.9  | 41.6   | 43.9  |
| 30°   | 19.6  | 24.2  | 30.0   | 35.8  | 41.6   | 43.9  |
| 31°   | 18.5  | 23.1  | 28.9   | 35.8  | 41.6   | 43.9  |
| 32°   | 17.3  | 23.1  | 28.9   | 35.8  | 41.6   | 43.9  |
| 33°   | 16.2  | 21.9  | 28.9   | 34.6  | 41.6   | 43.9  |
| 34°   | 15.0  | 21.9  | 28.9   | 35.8  | 41.6   | 43.9  |
| 35°   | 13.9  | 20.8  | 27.7   | 34.6  | 40.4   | 43.9  |
| 36°   | 12.7  | 20.8  | 27.7   | 34.6  | 41.6   | 43.9  |
| 37°   | 11.5  | 20.8  | 27.7   | 34.6  | 40.4   | 43.9  |
| 38°   | 11.5  | 19.6  | 26.6   | 34.6  | 40.4   | 43.9  |
| 39°   | 10.4  | 18.5  | 26.6   | 34.6  | 40.4   | 43.9  |
| 40°   | 9.2   | 18.5  | 25.4   | 33.5  | 40.4   | 43.9  |
| 41°   | 8.1   | 17.3  | 25.4   | 33.5  | 40.4   | 43.9  |
| 42°   | 6.9   | 17.3  | 25.4   | 33.5  | 40.4   | 43.9  |
| 43°   | 5.8   | 16.2  | 24.2   | 33.5  | 40.4   | 43.9  |
| 44°   | 5.8   | 16.2  | 24.2   | 33.5  | 40.4   | 43.9  |
| 45°   | 4.6   | 15.0  | 23.1   | 33.5  | 40.4   | 43.9  |
| 46°   | 4.6   | 15.0  | 23.1   | 32.3  | 40.4   | 43.9  |
| 47°   | 3.5   | 15.0  | 23.1   | 32.3  | 40.4   | 43.9  |
| 48°   | 3.5   | 13.9  | 23.1   | 32.3  | 40.4   | 43.9  |
| 49°   | 2.3   | 13.9  | 23.1   | 32.3  | 40.4   | 43.9  |
| 50°   | 2.3   | 13.9  | 21.9   | 32.3  | 40.4   | 43.9  |
| 51°   | 2.3   | 13.9  | 21.9   | 32.3  | 40.4   | 43.9  |
| 52°   | 2.3   | 12.7  | 21.9   | 32.3  | 40.4   | 43.9  |
| 53°   | 2.3   | 12.7  | 21.9   | 32.3  | 40.4   | 43.9  |
| 54°   | 2.3   | 12.7  | 20.8   | 32.3  | 40.4   | 43.9  |
| 55°   | 2.3   | 11.5  | 20.8   | 31.2  | 40.4   | 42.7  |
| 56°   | 2.3   | 11.5  | 20.8   | 31.2  | 40.4   | 42.7  |
| 57°   | 2.3   | 11.5  | 19.6   | 31.2  | 40.4   | 42.7  |
| 58°   | 2.3   | 10.4  | 19.6   | 30.0  | 39.3   | 42.7  |
| 59°   | 2.3   | 10.4  | 18.5   | 30.0  | 39.3   | 41.6  |
| 60°   | 2.3   | 9.2   | 18.5   | 28.9  | 38.1   | 41.6  |
| 62.5° | 2.3   | 8.1   | 16.2   | 27.7  | 36.9   | 39.3  |
| 65°   | 2.3   | 6.9   | 15.0   | 25.4  | 35.8   | 38.1  |



TEST NUMBER: P1313506

CATALOG NUMBER: P3SQAS17R159730DE010 E3SQCA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 2.3   | 6.9 | 13.9   | 24.2 | 33.5   | 36.9 |
| 70°   | 2.3   | 6.9 | 12.7   | 21.9 | 32.3   | 33.5 |
| 72.5° | 3.5   | 6.9 | 11.5   | 20.8 | 30.0   | 31.2 |
| 75°   | 4.6   | 6.9 | 10.4   | 18.5 | 27.7   | 28.9 |
| 77.5° | 4.6   | 6.9 | 9.2    | 16.2 | 24.2   | 25.4 |
| 80°   | 4.6   | 5.8 | 8.1    | 12.7 | 19.6   | 20.8 |
| 82.5° | 4.6   | 5.8 | 5.8    | 10.4 | 15.0   | 16.2 |
| 85°   | 3.5   | 4.6 | 4.6    | 5.8  | 10.4   | 11.5 |
| 87.5° | 3.5   | 4.6 | 2.3    | 3.5  | 4.6    | 4.6  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)