

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: P1316208

Luminaire Tested: P3SQAS13R209827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R209827DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

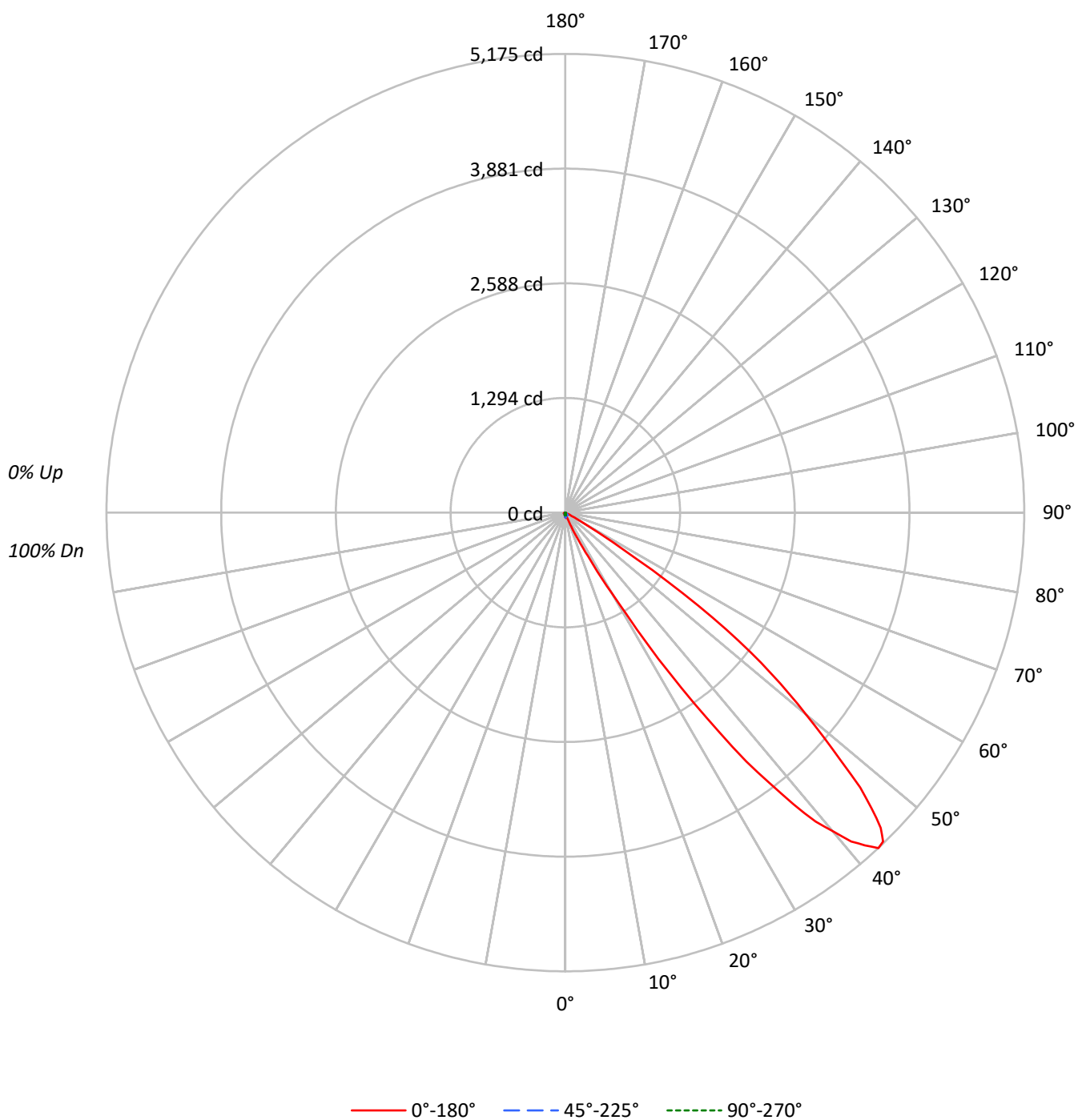
Lumens per Lamp: N/A  
Luminaire Lumens: 719.0 lumens  
Efficiency: N/A  
Efficacy: 49.6 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1316208

CATALOG NUMBER: P3SQAS13R209827DE010 E3SQCA451MMS

### Luminous Intensity Polar Plot



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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  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  |
| 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  | 19  | 31  | 24  | 19  | 30  | 24  | 19  |

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

|     | 0°      | 45°  | 90°  | 135° | 180°  |
|-----|---------|------|------|------|-------|
| 0°  | 8611    | 8611 | 8611 | 8611 | 8611  |
| 5°  | 10044   | 9353 | 8056 | 7002 | 6777  |
| 10° | 9933    | 8499 | 6383 | 5439 | 5316  |
| 15° | 8665    | 6508 | 4707 | 4333 | 4582  |
| 20° | 12884   | 5443 | 3464 | 3720 | 4087  |
| 25° | 55469   | 5644 | 2698 | 3344 | 3972  |
| 30° | 209763  | 6861 | 2287 | 3222 | 3898  |
| 35° | 635865  | 8242 | 2123 | 3259 | 4121  |
| 40° | 1054409 | 8206 | 1821 | 3485 | 4406  |
| 45° | 1225568 | 5602 | 1656 | 3629 | 4774  |
| 50° | 951369  | 3081 | 1634 | 3805 | 5439  |
| 55° | 550619  | 2042 | 1621 | 4264 | 5885  |
| 60° | 93104   | 482  | 1412 | 4409 | 6510  |
| 65° | 7172    | 0    | 1671 | 4972 | 7417  |
| 70° | 1007    | 0    | 2065 | 5438 | 8510  |
| 75° | 932     | 466  | 2262 | 6321 | 9915  |
| 80° | 694     | 694  | 3372 | 6744 | 11406 |
| 85° | 1383    | 1383 | 5335 | 6719 | 12054 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1225568 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.3    | 0.6       |
| 10°-20°   | 9.0    | 1.3       |
| 20°-30°   | 28.7   | 4.0       |
| 30°-40°   | 183.3  | 25.5      |
| 40°-50°   | 335.6  | 46.7      |
| 50°-60°   | 137.9  | 19.2      |
| 60°-70°   | 11.6   | 1.6       |
| 70°-80°   | 5.8    | 0.8       |
| 80°-90°   | 2.7    | 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°    | 42.0   | 5.8       |
| 0°-40°    | 225.3  | 31.3      |
| 0°-60°    | 698.8  | 97.2      |
| 0°-90°    | 719.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 719.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 50   | 50  | 50  | 50   | 50   |      |
| 5°  | 58   | 54  | 47  | 40   | 39   | 6    |
| 15° | 49   | 36  | 26  | 24   | 26   | 15   |
| 25° | 292  | 30  | 14  | 18   | 21   | 192  |
| 35° | 3024 | 39  | 10  | 16   | 20   | 1914 |
| 45° | 5032 | 23  | 7   | 15   | 20   | 3613 |
| 55° | 1834 | 7   | 5   | 14   | 20   | 1603 |
| 65° | 18   | 0   | 4   | 12   | 18   | 57   |
| 75° | 1    | 1   | 3   | 10   | 15   | 2    |
| 85° | 1    | 1   | 3   | 3    | 6    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| 0°    | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0   | 50.0  | 50.0 |
| 2.5°  | 54.7   | 54.7   | 54.7   | 54.1   | 54.1   | 54.7   | 54.1   | 54.1   | 54.1   | 54.1  | 53.4 |
| 5°    | 58.1   | 58.1   | 58.1   | 58.1   | 58.1   | 58.1   | 58.1   | 57.4   | 57.4   | 56.8  | 54.1 |
| 7.5°  | 59.5   | 59.5   | 59.5   | 59.5   | 58.8   | 58.8   | 58.8   | 58.8   | 58.1   | 57.4  | 52.7 |
| 10°   | 56.8   | 56.8   | 56.8   | 56.1   | 56.1   | 56.1   | 55.4   | 55.4   | 54.7   | 54.1  | 48.6 |
| 12.5° | 51.4   | 51.4   | 51.4   | 51.4   | 50.7   | 50.7   | 50.0   | 50.0   | 49.3   | 48.6  | 42.6 |
| 15°   | 48.6   | 48.6   | 48.6   | 48.0   | 48.0   | 47.3   | 46.6   | 45.9   | 45.3   | 43.9  | 36.5 |
| 17.5° | 52.7   | 52.7   | 52.0   | 52.0   | 50.7   | 49.3   | 48.6   | 46.6   | 45.3   | 43.2  | 32.4 |
| 20°   | 70.3   | 70.9   | 68.2   | 66.2   | 64.9   | 60.8   | 58.8   | 55.4   | 52.7   | 49.3  | 29.7 |
| 22.5° | 141.9  | 139.2  | 134.5  | 127.0  | 118.2  | 110.8  | 97.3   | 86.5   | 79.1   | 68.9  | 29.1 |
| 25°   | 291.9  | 289.2  | 276.4  | 265.5  | 238.5  | 217.6  | 188.5  | 164.9  | 140.5  | 116.9 | 29.7 |
| 27.5° | 554.7  | 536.5  | 533.1  | 483.8  | 446.0  | 391.9  | 335.8  | 288.5  | 245.3  | 197.3 | 31.8 |
| 30°   | 1054.8 | 1033.8 | 960.2  | 885.8  | 783.8  | 668.3  | 558.1  | 455.4  | 369.6  | 291.9 | 34.5 |
| 31°   | 1338.5 | 1358.8 | 1272.3 | 1123.0 | 972.3  | 824.3  | 673.7  | 543.3  | 432.4  | 335.8 | 35.8 |
| 32°   | 1759.5 | 1671.0 | 1579.8 | 1426.4 | 1207.5 | 1018.3 | 829.1  | 641.2  | 495.3  | 383.1 | 37.2 |
| 33°   | 2157.5 | 2105.5 | 1966.3 | 1775.0 | 1512.2 | 1246.7 | 1001.4 | 756.8  | 572.3  | 440.6 | 37.8 |
| 34°   | 2581.8 | 2524.4 | 2411.5 | 2137.2 | 1848.7 | 1500.7 | 1173.7 | 889.9  | 664.2  | 496.6 | 38.5 |
| 35°   | 3024.4 | 3000.1 | 2782.5 | 2544.7 | 2189.9 | 1770.3 | 1381.1 | 1035.8 | 754.1  | 548.0 | 39.2 |
| 36°   | 3469.7 | 3391.3 | 3221.0 | 2873.7 | 2503.4 | 2019.6 | 1598.7 | 1171.6 | 845.3  | 608.8 | 39.2 |
| 37°   | 3804.8 | 3787.2 | 3561.6 | 3223.0 | 2787.9 | 2285.9 | 1786.5 | 1322.3 | 937.2  | 660.8 | 39.2 |
| 38°   | 4174.4 | 4104.8 | 3875.8 | 3531.2 | 3055.5 | 2529.8 | 1983.2 | 1453.4 | 1024.3 | 708.1 | 38.5 |
| 39°   | 4485.9 | 4382.5 | 4151.4 | 3810.9 | 3289.3 | 2714.9 | 2139.2 | 1580.4 | 1101.4 | 747.3 | 37.8 |
| 40°   | 4690.0 | 4618.3 | 4377.1 | 3994.0 | 3501.4 | 2889.9 | 2297.4 | 1685.2 | 1158.8 | 777.0 | 36.5 |
| 41°   | 4915.0 | 4796.1 | 4557.5 | 4172.4 | 3655.5 | 3044.0 | 2396.7 | 1754.1 | 1203.4 | 796.6 | 35.1 |
| 42°   | 5049.4 | 4952.1 | 4669.0 | 4292.0 | 3765.6 | 3131.8 | 2477.8 | 1806.8 | 1230.4 | 806.8 | 32.4 |
| 43°   | 5175.1 | 5042.7 | 4767.0 | 4361.6 | 3838.6 | 3194.0 | 2514.9 | 1831.1 | 1236.5 | 806.8 | 29.1 |
| 44°   | 5158.2 | 5032.5 | 4746.7 | 4371.0 | 3854.8 | 3212.2 | 2530.5 | 1831.8 | 1227.1 | 796.6 | 25.7 |
| 45°   | 5031.9 | 4906.9 | 4649.4 | 4288.6 | 3796.7 | 3176.4 | 2499.4 | 1804.8 | 1200.7 | 779.1 | 23.0 |
| 46°   | 4800.1 | 4675.8 | 4478.5 | 4150.8 | 3688.6 | 3095.3 | 2427.1 | 1746.0 | 1156.8 | 750.7 | 20.3 |
| 47°   | 4548.1 | 4427.1 | 4225.1 | 3928.5 | 3504.1 | 2950.7 | 2322.4 | 1663.6 | 1095.3 | 709.5 | 18.2 |
| 48°   | 4182.5 | 4106.9 | 3904.1 | 3650.8 | 3248.0 | 2724.4 | 2138.6 | 1529.1 | 1012.9 | 656.1 | 15.5 |
| 49°   | 3859.5 | 3779.8 | 3602.1 | 3329.8 | 2914.3 | 2460.9 | 1919.0 | 1365.6 | 905.4  | 596.6 | 13.5 |
| 50°   | 3550.8 | 3481.2 | 3317.0 | 3009.5 | 2612.9 | 2142.6 | 1622.3 | 1159.5 | 770.3  | 523.0 | 11.5 |
| 51°   | 3248.7 | 3196.7 | 3029.1 | 2746.7 | 2344.0 | 1898.0 | 1405.4 | 965.6  | 636.5  | 433.8 | 10.8 |
| 52°   | 2945.3 | 2939.3 | 2757.5 | 2471.7 | 2082.5 | 1654.1 | 1194.6 | 814.9  | 539.9  | 364.2 | 10.1 |
| 53°   | 2619.0 | 2579.8 | 2421.0 | 2164.2 | 1790.6 | 1400.0 | 1012.9 | 687.2  | 464.9  | 310.1 | 8.8  |
| 54°   | 2247.3 | 2203.4 | 2033.2 | 1801.4 | 1462.9 | 1146.6 | 816.2  | 555.4  | 387.2  | 262.2 | 8.1  |
| 55°   | 1833.8 | 1758.8 | 1635.2 | 1397.3 | 1142.6 | 875.0  | 630.4  | 439.9  | 309.5  | 218.2 | 6.8  |
| 56°   | 1391.2 | 1316.2 | 1246.7 | 1071.6 | 838.5  | 652.7  | 469.6  | 337.2  | 241.9  | 172.3 | 6.1  |
| 57°   | 967.6  | 963.5  | 849.3  | 714.9  | 560.8  | 444.6  | 321.6  | 237.8  | 170.9  | 133.8 | 4.7  |
| 58°   | 627.7  | 606.8  | 533.8  | 456.1  | 366.9  | 277.7  | 206.8  | 161.5  | 116.2  | 91.2  | 4.1  |
| 59°   | 439.9  | 398.0  | 358.8  | 304.1  | 231.1  | 175.0  | 133.1  | 103.4  | 80.4   | 63.5  | 2.7  |
| 60°   | 270.3  | 261.5  | 235.1  | 185.1  | 150.0  | 123.7  | 99.3   | 76.4   | 58.8   | 45.3  | 1.4  |
| 62.5° | 77.0   | 78.4   | 70.9   | 62.8   | 54.1   | 46.6   | 41.9   | 35.8   | 29.7   | 23.6  | 0.0  |
| 65°   | 17.6   | 16.9   | 18.2   | 16.9   | 15.5   | 15.5   | 13.5   | 12.2   | 10.8   | 10.1  | 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° | 5.4 | 5.4  | 4.7 | 4.7  | 4.7 | 4.1   | 4.1 | 3.4   | 3.4 | 2.7   | 0.0 |
| 70°   | 2.0 | 2.0  | 2.0 | 2.0  | 2.0 | 1.4   | 1.4 | 1.4   | 0.7 | 0.7   | 0.0 |
| 72.5° | 2.0 | 2.0  | 2.0 | 1.4  | 1.4 | 1.4   | 1.4 | 1.4   | 0.7 | 0.7   | 0.7 |
| 75°   | 1.4 | 1.4  | 1.4 | 1.4  | 1.4 | 1.4   | 1.4 | 0.7   | 0.7 | 0.7   | 0.7 |
| 77.5° | 1.4 | 1.4  | 1.4 | 1.4  | 1.4 | 0.7   | 1.4 | 0.7   | 0.7 | 0.7   | 0.7 |
| 80°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 |
| 82.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 | 0.7   | 0.7 |
| 85°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7 | 0.0   | 0.7 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.7 |
| 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 50.0  | 50.0 | 50.0   | 50.0 | 50.0   | 50.0 |
| 2.5°  | 52.0  | 49.3 | 47.3   | 45.3 | 44.6   | 44.6 |
| 5°    | 50.7  | 46.6 | 42.6   | 40.5 | 39.2   | 39.2 |
| 7.5°  | 46.6  | 41.9 | 37.8   | 35.8 | 35.1   | 35.1 |
| 10°   | 41.9  | 36.5 | 32.4   | 31.1 | 31.1   | 30.4 |
| 12.5° | 36.5  | 31.1 | 28.4   | 27.7 | 27.7   | 27.7 |
| 15°   | 30.4  | 26.4 | 24.3   | 24.3 | 25.0   | 25.7 |
| 17.5° | 25.7  | 21.6 | 20.9   | 22.3 | 23.6   | 23.6 |
| 20°   | 21.6  | 18.9 | 18.9   | 20.3 | 21.6   | 22.3 |
| 22.5° | 18.2  | 16.2 | 16.9   | 18.9 | 20.9   | 21.6 |
| 25°   | 16.2  | 14.2 | 15.5   | 17.6 | 19.6   | 20.9 |
| 27.5° | 13.5  | 12.8 | 14.2   | 16.9 | 19.6   | 20.3 |
| 30°   | 11.5  | 11.5 | 13.5   | 16.2 | 18.9   | 19.6 |
| 31°   | 10.8  | 10.8 | 13.5   | 16.2 | 18.9   | 19.6 |
| 32°   | 10.1  | 10.8 | 12.8   | 16.2 | 18.9   | 19.6 |
| 33°   | 9.5   | 10.1 | 12.8   | 15.5 | 18.9   | 19.6 |
| 34°   | 8.8   | 10.1 | 12.8   | 15.5 | 18.9   | 19.6 |
| 35°   | 8.1   | 10.1 | 12.8   | 15.5 | 18.9   | 19.6 |
| 36°   | 7.4   | 9.5  | 12.2   | 15.5 | 18.9   | 19.6 |
| 37°   | 6.8   | 9.5  | 12.2   | 15.5 | 18.9   | 19.6 |
| 38°   | 6.1   | 8.8  | 12.2   | 15.5 | 18.9   | 19.6 |
| 39°   | 6.1   | 8.8  | 11.5   | 15.5 | 18.2   | 19.6 |
| 40°   | 5.4   | 8.1  | 11.5   | 15.5 | 18.2   | 19.6 |
| 41°   | 4.7   | 8.1  | 11.5   | 14.9 | 18.2   | 19.6 |
| 42°   | 4.1   | 7.4  | 10.8   | 14.9 | 18.2   | 19.6 |
| 43°   | 3.4   | 7.4  | 10.8   | 14.9 | 18.2   | 19.6 |
| 44°   | 3.4   | 6.8  | 10.8   | 14.9 | 18.2   | 19.6 |
| 45°   | 2.7   | 6.8  | 10.8   | 14.9 | 18.2   | 19.6 |
| 46°   | 2.0   | 6.8  | 10.8   | 14.9 | 18.2   | 19.6 |
| 47°   | 2.0   | 6.1  | 10.1   | 14.9 | 18.2   | 19.6 |
| 48°   | 1.4   | 6.1  | 10.1   | 14.9 | 18.2   | 19.6 |
| 49°   | 1.4   | 6.1  | 10.1   | 14.9 | 18.2   | 20.3 |
| 50°   | 1.4   | 6.1  | 10.1   | 14.2 | 18.2   | 20.3 |
| 51°   | 0.7   | 6.1  | 10.1   | 14.2 | 18.2   | 20.3 |
| 52°   | 0.7   | 6.1  | 9.5    | 14.2 | 18.9   | 20.3 |
| 53°   | 0.7   | 5.4  | 9.5    | 14.2 | 18.9   | 20.3 |
| 54°   | 0.7   | 5.4  | 9.5    | 14.2 | 18.9   | 19.6 |
| 55°   | 0.7   | 5.4  | 9.5    | 14.2 | 18.2   | 19.6 |
| 56°   | 0.7   | 4.7  | 9.5    | 14.2 | 18.2   | 19.6 |
| 57°   | 0.7   | 4.7  | 8.8    | 13.5 | 18.2   | 18.9 |
| 58°   | 0.7   | 4.7  | 8.8    | 13.5 | 18.2   | 18.9 |
| 59°   | 0.7   | 4.7  | 8.8    | 13.5 | 17.6   | 18.9 |
| 60°   | 1.4   | 4.1  | 8.1    | 12.8 | 17.6   | 18.9 |
| 62.5° | 1.4   | 4.1  | 8.1    | 12.8 | 16.9   | 18.2 |
| 65°   | 1.4   | 4.1  | 7.4    | 12.2 | 16.9   | 18.2 |





TEST NUMBER: P1316208

CATALOG NUMBER: P3SQAS13R209827DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.4   | 3.4 | 6.8    | 11.5 | 16.2   | 17.6 |
| 70°   | 1.4   | 4.1 | 6.8    | 10.8 | 15.5   | 16.9 |
| 72.5° | 2.0   | 3.4 | 6.1    | 10.1 | 14.9   | 16.2 |
| 75°   | 2.0   | 3.4 | 6.1    | 9.5  | 14.2   | 14.9 |
| 77.5° | 2.7   | 3.4 | 5.4    | 8.1  | 12.8   | 13.5 |
| 80°   | 2.7   | 3.4 | 4.7    | 6.8  | 10.8   | 11.5 |
| 82.5° | 2.7   | 3.4 | 3.4    | 5.4  | 8.1    | 8.8  |
| 85°   | 2.0   | 2.7 | 2.7    | 3.4  | 5.4    | 6.1  |
| 87.5° | 2.0   | 2.7 | 2.0    | 1.4  | 2.7    | 2.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)