

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: P1317506

Luminaire Tested: P3SQAS02R159835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317506  
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: P3SQAS02R159835DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

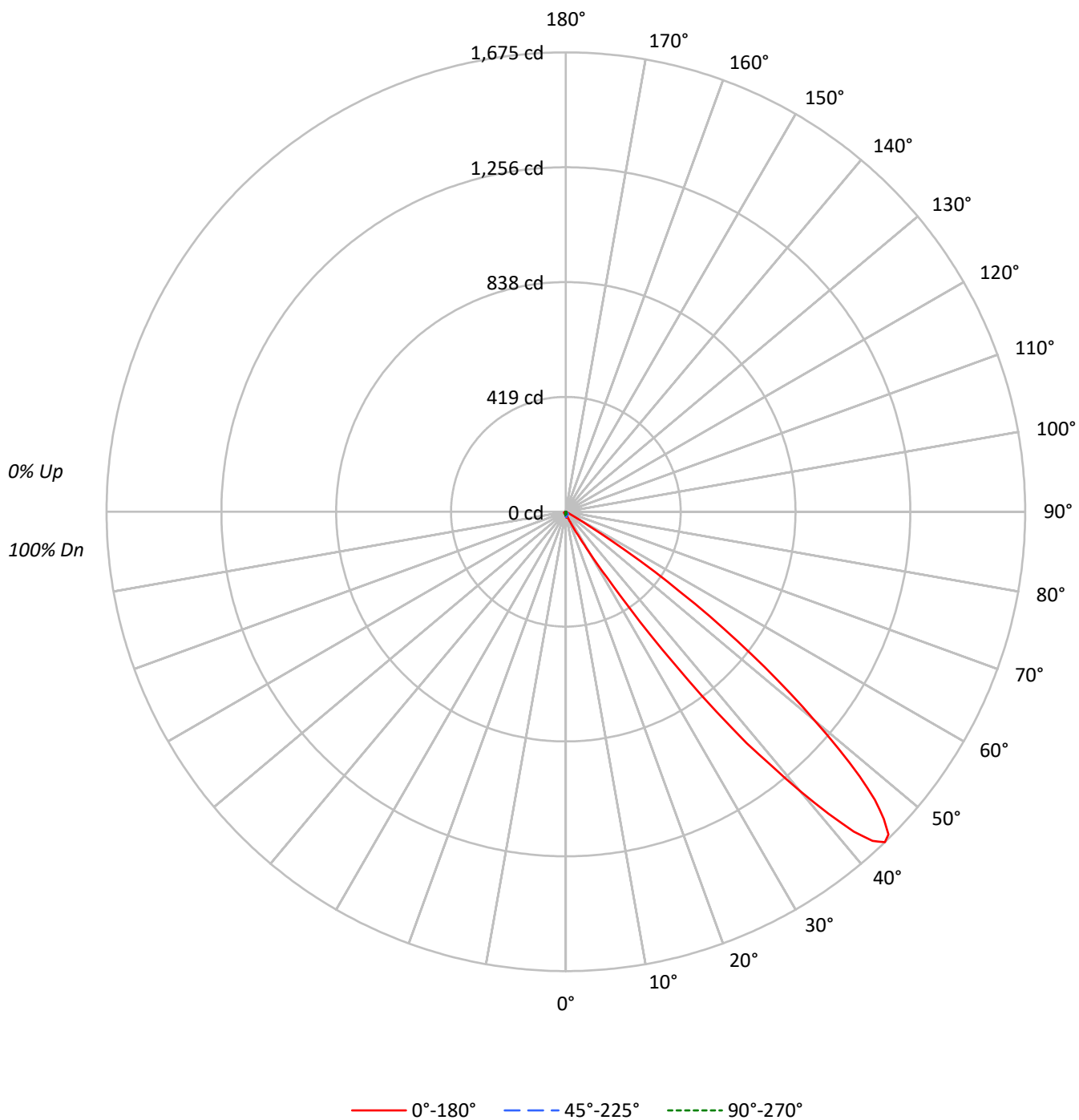
Lumens per Lamp: N/A  
Luminaire Lumens: 187.0 lumens  
Efficiency: N/A  
Efficacy: 51.9 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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

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### 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  |     |    | 0  |
| 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  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 50  |    |    |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  |    |    |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  | 24  |    |    |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  |    |    |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2859   | 2859 | 2859 | 2859 | 2859 |
| 5°  | 3544   | 3164 | 2576 | 2265 | 2230 |
| 10° | 3498   | 2711 | 1994 | 1766 | 1801 |
| 15° | 2888   | 1926 | 1426 | 1462 | 1569 |
| 20° | 5022   | 1540 | 1100 | 1265 | 1430 |
| 25° | 11193  | 1843 | 893  | 1178 | 1349 |
| 30° | 33489  | 2267 | 776  | 1153 | 1412 |
| 35° | 128901 | 2544 | 715  | 1177 | 1493 |
| 40° | 299169 | 2226 | 674  | 1214 | 1596 |
| 45° | 405234 | 1681 | 585  | 1315 | 1729 |
| 50° | 317739 | 991  | 589  | 1393 | 1902 |
| 55° | 152503 | 450  | 570  | 1501 | 2072 |
| 60° | 13950  | 69   | 517  | 1619 | 2308 |
| 65° | 1508   | 0    | 448  | 1671 | 2527 |
| 70° | 352    | 0    | 554  | 1762 | 2719 |
| 75° | 399    | 133  | 732  | 1996 | 3127 |
| 80° | 397    | 397  | 893  | 2083 | 3372 |
| 85° | 395    | 395  | 1383 | 1778 | 3754 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 405234 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.4    | 0.8       |
| 10°-20°   | 2.9    | 1.6       |
| 20°-30°   | 7.1    | 3.8       |
| 30°-40°   | 38.7   | 20.7      |
| 40°-50°   | 93.7   | 50.1      |
| 50°-60°   | 37.4   | 20.0      |
| 60°-70°   | 3.2    | 1.7       |
| 70°-80°   | 1.8    | 1.0       |
| 80°-90°   | 0.8    | 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°    | 11.4   | 6.1       |
| 0°-40°    | 50.1   | 26.8      |
| 0°-60°    | 181.1  | 96.9      |
| 0°-90°    | 187.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 187.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 17   | 17  | 17  | 17   | 17   |      |
| 5°  | 20   | 18  | 15  | 13   | 13   | 2    |
| 15° | 16   | 11  | 8   | 8    | 9    | 6    |
| 25° | 59   | 10  | 5   | 6    | 7    | 36   |
| 35° | 613  | 12  | 3   | 6    | 7    | 433  |
| 45° | 1664 | 7   | 2   | 5    | 7    | 1174 |
| 55° | 508  | 2   | 2   | 5    | 7    | 473  |
| 65° | 4    | 0   | 1   | 4    | 6    | 10   |
| 75° | 1    | 0   | 1   | 3    | 5    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 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°    | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6  | 16.6  | 16.6  | 16.6  | 16.6  | 16.6 |
| 2.5°  | 18.6   | 18.6   | 18.8   | 18.6   | 18.6   | 18.6  | 18.6  | 18.5  | 18.5  | 18.5  | 17.9 |
| 5°    | 20.5   | 20.5   | 20.5   | 20.5   | 20.3   | 20.3  | 20.3  | 20.1  | 20.1  | 20.0  | 18.3 |
| 7.5°  | 21.3   | 21.3   | 21.1   | 21.1   | 20.9   | 20.9  | 20.7  | 20.5  | 20.3  | 20.1  | 17.5 |
| 10°   | 20.0   | 20.0   | 20.0   | 19.8   | 19.8   | 19.6  | 19.4  | 19.2  | 19.0  | 18.6  | 15.5 |
| 12.5° | 17.7   | 17.7   | 17.9   | 17.7   | 17.5   | 17.3  | 17.0  | 16.8  | 16.6  | 16.2  | 12.9 |
| 15°   | 16.2   | 16.2   | 16.2   | 16.0   | 15.8   | 15.5  | 15.3  | 14.9  | 14.7  | 14.2  | 10.8 |
| 17.5° | 20.7   | 20.7   | 20.5   | 20.1   | 19.4   | 18.8  | 17.9  | 17.2  | 16.2  | 15.1  | 9.3  |
| 20°   | 27.4   | 27.4   | 27.0   | 26.7   | 25.7   | 24.8  | 23.3  | 22.0  | 20.5  | 19.2  | 8.4  |
| 22.5° | 39.7   | 40.3   | 39.2   | 37.9   | 36.5   | 34.3  | 32.3  | 30.2  | 27.6  | 25.4  | 8.6  |
| 25°   | 58.9   | 59.5   | 58.9   | 55.9   | 53.5   | 50.5  | 46.6  | 42.5  | 38.0  | 33.9  | 9.7  |
| 27.5° | 95.5   | 95.8   | 94.9   | 87.6   | 83.7   | 75.9  | 69.0  | 62.3  | 54.8  | 47.4  | 10.6 |
| 30°   | 168.4  | 168.6  | 162.6  | 148.0  | 135.2  | 118.0 | 103.5 | 89.5  | 77.8  | 65.8  | 11.4 |
| 31°   | 221.7  | 216.5  | 203.8  | 186.3  | 165.8  | 142.6 | 122.7 | 104.6 | 87.1  | 74.2  | 11.6 |
| 32°   | 281.5  | 280.8  | 259.7  | 229.3  | 201.9  | 173.0 | 143.0 | 119.9 | 99.8  | 82.2  | 11.7 |
| 33°   | 360.8  | 361.2  | 328.0  | 292.2  | 247.2  | 208.5 | 169.1 | 137.4 | 113.2 | 91.7  | 12.1 |
| 34°   | 484.6  | 455.5  | 416.5  | 368.1  | 306.9  | 248.5 | 197.5 | 157.7 | 125.3 | 100.9 | 12.1 |
| 35°   | 613.1  | 583.8  | 540.9  | 467.4  | 383.5  | 301.9 | 231.2 | 179.6 | 139.8 | 110.8 | 12.1 |
| 36°   | 757.0  | 732.2  | 667.3  | 573.5  | 466.5  | 352.2 | 267.0 | 204.7 | 154.2 | 119.7 | 11.9 |
| 37°   | 912.5  | 876.2  | 804.2  | 701.8  | 558.6  | 423.1 | 310.6 | 229.7 | 168.6 | 129.4 | 11.6 |
| 38°   | 1070.4 | 1037.6 | 946.8  | 822.8  | 668.6  | 497.8 | 354.3 | 253.8 | 181.8 | 136.7 | 11.0 |
| 39°   | 1190.2 | 1172.3 | 1082.2 | 943.7  | 756.5  | 568.7 | 399.2 | 279.5 | 195.8 | 143.9 | 10.4 |
| 40°   | 1330.7 | 1301.8 | 1216.4 | 1045.1 | 860.3  | 640.9 | 443.2 | 302.2 | 207.3 | 149.7 | 9.9  |
| 41°   | 1459.0 | 1422.5 | 1314.7 | 1149.1 | 943.5  | 705.7 | 485.0 | 325.7 | 216.7 | 153.1 | 9.5  |
| 42°   | 1569.0 | 1526.5 | 1413.9 | 1238.3 | 1013.0 | 757.6 | 518.3 | 342.5 | 225.4 | 155.9 | 8.9  |
| 43°   | 1640.3 | 1603.5 | 1492.8 | 1305.2 | 1072.5 | 805.1 | 549.5 | 360.0 | 230.8 | 157.7 | 8.2  |
| 44°   | 1674.9 | 1637.8 | 1530.6 | 1347.1 | 1109.0 | 833.6 | 569.6 | 372.2 | 236.8 | 160.2 | 7.6  |
| 45°   | 1663.8 | 1626.1 | 1522.4 | 1347.9 | 1120.4 | 843.9 | 578.2 | 377.6 | 240.0 | 162.4 | 6.9  |
| 46°   | 1612.5 | 1586.0 | 1481.6 | 1312.8 | 1098.8 | 832.9 | 573.4 | 373.5 | 238.9 | 162.4 | 6.2  |
| 47°   | 1540.5 | 1510.3 | 1410.9 | 1252.6 | 1046.4 | 804.6 | 553.8 | 361.0 | 232.0 | 158.7 | 5.4  |
| 48°   | 1442.4 | 1416.7 | 1312.3 | 1157.0 | 966.0  | 742.8 | 509.6 | 340.7 | 221.1 | 151.4 | 4.7  |
| 49°   | 1319.4 | 1283.6 | 1186.4 | 1034.6 | 861.2  | 655.2 | 451.6 | 306.3 | 203.8 | 141.1 | 4.1  |
| 50°   | 1185.9 | 1141.7 | 1066.7 | 912.1  | 752.9  | 561.8 | 375.3 | 259.0 | 179.4 | 127.7 | 3.7  |
| 51°   | 1055.2 | 1010.2 | 938.8  | 807.4  | 637.3  | 466.1 | 302.8 | 206.8 | 147.7 | 109.3 | 3.2  |
| 52°   | 919.6  | 881.9  | 801.9  | 698.7  | 545.6  | 377.8 | 252.3 | 174.9 | 122.7 | 91.7  | 2.6  |
| 53°   | 784.6  | 758.9  | 682.8  | 578.2  | 438.4  | 308.6 | 206.0 | 149.7 | 107.0 | 78.5  | 2.1  |
| 54°   | 649.4  | 621.3  | 563.5  | 470.2  | 353.3  | 243.5 | 174.7 | 125.3 | 92.9  | 68.4  | 1.9  |
| 55°   | 507.9  | 493.4  | 440.0  | 358.6  | 267.8  | 194.3 | 141.7 | 107.8 | 77.8  | 57.2  | 1.5  |
| 56°   | 391.2  | 374.8  | 326.1  | 260.1  | 198.9  | 152.1 | 114.7 | 88.0  | 65.8  | 47.9  | 1.1  |
| 57°   | 256.2  | 239.4  | 207.2  | 181.6  | 144.9  | 110.9 | 87.6  | 69.4  | 53.5  | 39.7  | 0.9  |
| 58°   | 151.4  | 136.1  | 131.1  | 111.9  | 96.6   | 75.3  | 64.7  | 51.6  | 39.5  | 31.3  | 0.6  |
| 59°   | 69.5   | 70.7   | 62.8   | 58.9   | 53.5   | 47.9  | 39.3  | 34.5  | 27.0  | 22.6  | 0.4  |
| 60°   | 40.5   | 38.2   | 37.3   | 33.4   | 29.6   | 26.3  | 23.7  | 20.9  | 17.0  | 14.5  | 0.2  |
| 62.5° | 13.8   | 13.2   | 13.6   | 12.3   | 11.6   | 11.2  | 10.3  | 8.8   | 7.3   | 6.0   | 0.0  |
| 65°   | 3.7    | 3.7    | 3.5    | 3.4    | 3.2    | 3.0   | 2.8   | 2.4   | 2.2   | 1.9   | 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° | 1.3 | 1.3  | 1.1 | 1.1  | 0.9 | 0.9   | 0.7 | 0.7   | 0.6 | 0.6   | 0.0 |
| 70°   | 0.7 | 0.7  | 0.7 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.2   | 0.0 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 |
| 75°   | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.2   | 0.4 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.4 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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°    | 16.6  | 16.6 | 16.6   | 16.6 | 16.6   | 16.6 |
| 2.5°  | 17.2  | 16.4 | 15.5   | 14.9 | 14.7   | 14.5 |
| 5°    | 16.4  | 14.9 | 13.8   | 13.1 | 12.9   | 12.9 |
| 7.5°  | 14.7  | 13.1 | 11.9   | 11.6 | 11.4   | 11.4 |
| 10°   | 12.9  | 11.4 | 10.4   | 10.1 | 10.3   | 10.3 |
| 12.5° | 10.8  | 9.5  | 9.1    | 9.1  | 9.3    | 9.5  |
| 15°   | 8.8   | 8.0  | 8.0    | 8.2  | 8.6    | 8.8  |
| 17.5° | 7.3   | 6.9  | 7.1    | 7.5  | 7.8    | 8.2  |
| 20°   | 6.0   | 6.0  | 6.3    | 6.9  | 7.5    | 7.8  |
| 22.5° | 5.0   | 5.2  | 5.8    | 6.3  | 7.1    | 7.5  |
| 25°   | 4.3   | 4.7  | 5.2    | 6.2  | 6.9    | 7.1  |
| 27.5° | 3.7   | 4.3  | 5.0    | 6.0  | 6.7    | 7.1  |
| 30°   | 3.2   | 3.9  | 4.8    | 5.8  | 6.7    | 7.1  |
| 31°   | 3.0   | 3.7  | 4.7    | 5.8  | 6.7    | 7.1  |
| 32°   | 2.8   | 3.7  | 4.7    | 5.8  | 6.7    | 7.1  |
| 33°   | 2.6   | 3.5  | 4.7    | 5.6  | 6.7    | 7.1  |
| 34°   | 2.4   | 3.5  | 4.7    | 5.8  | 6.7    | 7.1  |
| 35°   | 2.2   | 3.4  | 4.5    | 5.6  | 6.5    | 7.1  |
| 36°   | 2.1   | 3.4  | 4.5    | 5.6  | 6.7    | 7.1  |
| 37°   | 1.9   | 3.4  | 4.5    | 5.6  | 6.5    | 7.1  |
| 38°   | 1.9   | 3.2  | 4.3    | 5.6  | 6.5    | 7.1  |
| 39°   | 1.7   | 3.0  | 4.3    | 5.6  | 6.5    | 7.1  |
| 40°   | 1.5   | 3.0  | 4.1    | 5.4  | 6.5    | 7.1  |
| 41°   | 1.3   | 2.8  | 4.1    | 5.4  | 6.5    | 7.1  |
| 42°   | 1.1   | 2.8  | 4.1    | 5.4  | 6.5    | 7.1  |
| 43°   | 0.9   | 2.6  | 3.9    | 5.4  | 6.5    | 7.1  |
| 44°   | 0.9   | 2.6  | 3.9    | 5.4  | 6.5    | 7.1  |
| 45°   | 0.7   | 2.4  | 3.7    | 5.4  | 6.5    | 7.1  |
| 46°   | 0.7   | 2.4  | 3.7    | 5.2  | 6.5    | 7.1  |
| 47°   | 0.6   | 2.4  | 3.7    | 5.2  | 6.5    | 7.1  |
| 48°   | 0.6   | 2.2  | 3.7    | 5.2  | 6.5    | 7.1  |
| 49°   | 0.4   | 2.2  | 3.7    | 5.2  | 6.5    | 7.1  |
| 50°   | 0.4   | 2.2  | 3.5    | 5.2  | 6.5    | 7.1  |
| 51°   | 0.4   | 2.2  | 3.5    | 5.2  | 6.5    | 7.1  |
| 52°   | 0.4   | 2.1  | 3.5    | 5.2  | 6.5    | 7.1  |
| 53°   | 0.4   | 2.1  | 3.5    | 5.2  | 6.5    | 7.1  |
| 54°   | 0.4   | 2.1  | 3.4    | 5.2  | 6.5    | 7.1  |
| 55°   | 0.4   | 1.9  | 3.4    | 5.0  | 6.5    | 6.9  |
| 56°   | 0.4   | 1.9  | 3.4    | 5.0  | 6.5    | 6.9  |
| 57°   | 0.4   | 1.9  | 3.2    | 5.0  | 6.5    | 6.9  |
| 58°   | 0.4   | 1.7  | 3.2    | 4.8  | 6.3    | 6.9  |
| 59°   | 0.4   | 1.7  | 3.0    | 4.8  | 6.3    | 6.7  |
| 60°   | 0.4   | 1.5  | 3.0    | 4.7  | 6.2    | 6.7  |
| 62.5° | 0.4   | 1.3  | 2.6    | 4.5  | 6.0    | 6.3  |
| 65°   | 0.4   | 1.1  | 2.4    | 4.1  | 5.8    | 6.2  |



TEST NUMBER: P1317506

CATALOG NUMBER: P3SQAS02R159835DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.1 | 2.2    | 3.9  | 5.4    | 6.0  |
| 70°   | 0.4   | 1.1 | 2.1    | 3.5  | 5.2    | 5.4  |
| 72.5° | 0.6   | 1.1 | 1.9    | 3.4  | 4.8    | 5.0  |
| 75°   | 0.7   | 1.1 | 1.7    | 3.0  | 4.5    | 4.7  |
| 77.5° | 0.7   | 1.1 | 1.5    | 2.6  | 3.9    | 4.1  |
| 80°   | 0.7   | 0.9 | 1.3    | 2.1  | 3.2    | 3.4  |
| 82.5° | 0.7   | 0.9 | 0.9    | 1.7  | 2.4    | 2.6  |
| 85°   | 0.6   | 0.7 | 0.7    | 0.9  | 1.7    | 1.9  |
| 87.5° | 0.6   | 0.7 | 0.4    | 0.6  | 0.7    | 0.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)