

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: P1311927

Luminaire Tested: P3SQAS02R259727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R259727DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

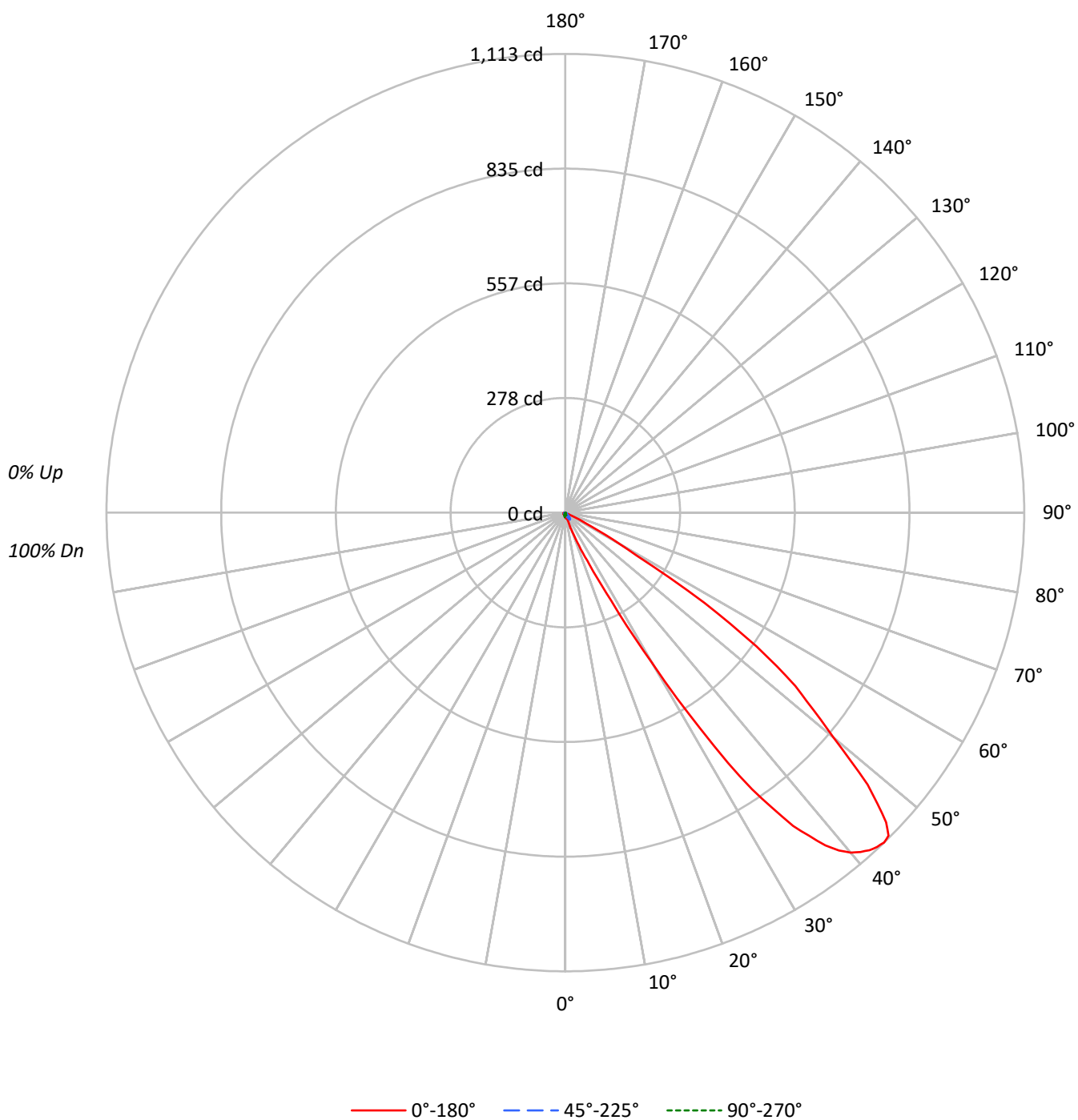
Lumens per Lamp: N/A  
Luminaire Lumens: 232.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1311927

CATALOG NUMBER: P3SQAS02R259727DE010 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  |     |    | 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  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |    |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 39  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 29  |    |    |
| 8   | 57  | 43  | 34  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 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  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2032   | 2032 | 2032 | 2032 | 2032 |
| 5°  | 2334   | 2230 | 1971 | 1763 | 1729 |
| 10° | 2326   | 2099 | 1679 | 1469 | 1469 |
| 15° | 2585   | 1819 | 1302 | 1230 | 1302 |
| 20° | 9127   | 1796 | 1008 | 1045 | 1155 |
| 25° | 26262  | 2280 | 817  | 969  | 1121 |
| 30° | 83802  | 3540 | 656  | 935  | 1134 |
| 35° | 183544 | 4163 | 568  | 904  | 1156 |
| 40° | 242109 | 3755 | 450  | 922  | 1237 |
| 45° | 270010 | 2630 | 438  | 999  | 1340 |
| 50° | 227286 | 1366 | 429  | 1045 | 1474 |
| 55° | 169918 | 540  | 420  | 1171 | 1651 |
| 60° | 52597  | 138  | 413  | 1274 | 1826 |
| 65° | 4483   | 0    | 489  | 1345 | 1997 |
| 70° | 302    | 101  | 504  | 1561 | 2266 |
| 75° | 266    | 133  | 665  | 1597 | 2595 |
| 80° | 198    | 198  | 992  | 1785 | 3075 |
| 85° | 395    | 395  | 1581 | 1976 | 3162 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 270010 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.5       |
| 10°-20°   | 2.7    | 1.2       |
| 20°-30°   | 12.8   | 5.5       |
| 30°-40°   | 61.8   | 26.6      |
| 40°-50°   | 96.9   | 41.8      |
| 50°-60°   | 49.7   | 21.4      |
| 60°-70°   | 4.7    | 2.0       |
| 70°-80°   | 1.6    | 0.7       |
| 80°-90°   | 0.8    | 0.3       |
| 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°    | 16.6   | 7.2       |
| 0°-40°    | 78.4   | 33.8      |
| 0°-60°    | 224.9  | 97.0      |
| 0°-90°    | 232.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 232.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 12   | 12  | 12  | 12   | 12   |      |
| 5°  | 14   | 13  | 11  | 10   | 10   | 1    |
| 15° | 14   | 10  | 7   | 7    | 7    | 6    |
| 25° | 138  | 12  | 4   | 5    | 6    | 86   |
| 35° | 873  | 20  | 3   | 4    | 6    | 530  |
| 45° | 1109 | 11  | 2   | 4    | 6    | 811  |
| 55° | 566  | 2   | 1   | 4    | 6    | 471  |
| 65° | 11   | 0   | 1   | 3    | 5    | 35   |
| 75° | 0    | 0   | 1   | 2    | 4    | 0    |
| 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°    | 11.8   | 11.8   | 11.8   | 11.8   | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8  | 11.8 |
| 2.5°  | 12.9   | 12.9   | 12.9   | 12.9   | 12.9  | 12.9  | 12.7  | 12.7  | 12.9  | 12.7  | 12.7 |
| 5°    | 13.5   | 13.5   | 13.5   | 13.5   | 13.5  | 13.5  | 13.5  | 13.3  | 13.3  | 13.3  | 12.9 |
| 7.5°  | 13.7   | 13.5   | 13.5   | 13.5   | 13.5  | 13.5  | 13.5  | 13.5  | 13.3  | 13.3  | 12.7 |
| 10°   | 13.3   | 13.3   | 13.3   | 13.3   | 13.1  | 13.1  | 13.1  | 12.9  | 12.9  | 12.9  | 12.0 |
| 12.5° | 13.3   | 13.3   | 13.3   | 13.3   | 13.1  | 13.1  | 12.9  | 12.9  | 12.7  | 12.5  | 11.0 |
| 15°   | 14.5   | 14.5   | 14.5   | 14.3   | 14.1  | 13.9  | 13.7  | 13.5  | 13.3  | 12.9  | 10.2 |
| 17.5° | 21.2   | 20.6   | 20.4   | 19.6   | 18.6  | 17.6  | 16.7  | 15.9  | 15.1  | 14.5  | 9.8  |
| 20°   | 49.8   | 49.6   | 48.6   | 46.1   | 43.5  | 40.4  | 37.4  | 33.9  | 29.0  | 25.7  | 9.8  |
| 22.5° | 86.4   | 85.1   | 83.3   | 81.5   | 76.8  | 71.2  | 65.5  | 59.0  | 52.7  | 45.9  | 10.4 |
| 25°   | 138.2  | 141.1  | 134.9  | 130.0  | 121.9 | 111.9 | 101.1 | 92.1  | 80.6  | 70.0  | 12.0 |
| 27.5° | 240.3  | 242.1  | 230.1  | 214.2  | 195.2 | 174.1 | 153.7 | 138.4 | 119.2 | 101.7 | 15.1 |
| 30°   | 421.4  | 423.2  | 403.0  | 369.1  | 329.9 | 295.4 | 248.7 | 207.6 | 169.9 | 140.7 | 17.8 |
| 31°   | 525.9  | 511.6  | 488.1  | 455.3  | 405.7 | 353.6 | 297.5 | 247.8 | 200.1 | 161.7 | 18.6 |
| 32°   | 616.8  | 615.5  | 588.2  | 538.4  | 488.5 | 424.2 | 354.6 | 289.9 | 231.3 | 182.9 | 19.2 |
| 33°   | 723.9  | 715.8  | 677.2  | 630.2  | 564.3 | 499.6 | 409.7 | 335.8 | 263.4 | 206.6 | 19.6 |
| 34°   | 809.9  | 787.8  | 771.9  | 718.2  | 648.6 | 566.1 | 470.0 | 384.4 | 303.4 | 229.5 | 19.8 |
| 35°   | 873.0  | 868.3  | 837.2  | 787.2  | 716.4 | 632.1 | 534.9 | 434.8 | 336.9 | 256.0 | 19.8 |
| 36°   | 939.7  | 925.2  | 895.0  | 849.7  | 780.7 | 693.5 | 584.5 | 478.5 | 375.8 | 279.9 | 19.6 |
| 37°   | 981.6  | 973.0  | 943.0  | 896.2  | 828.7 | 745.4 | 640.0 | 524.7 | 406.9 | 303.8 | 19.2 |
| 38°   | 1024.7 | 1007.3 | 977.7  | 933.0  | 866.6 | 788.4 | 680.2 | 560.2 | 435.5 | 324.8 | 18.6 |
| 39°   | 1054.5 | 1036.5 | 1006.3 | 961.8  | 896.9 | 819.3 | 712.1 | 590.4 | 460.4 | 340.5 | 17.8 |
| 40°   | 1076.9 | 1059.6 | 1028.9 | 983.2  | 919.1 | 843.6 | 738.6 | 617.2 | 481.2 | 354.2 | 16.7 |
| 41°   | 1090.8 | 1074.7 | 1044.3 | 998.7  | 934.4 | 857.4 | 756.0 | 634.5 | 495.3 | 363.4 | 15.7 |
| 42°   | 1102.4 | 1085.9 | 1054.9 | 1008.3 | 943.8 | 869.3 | 766.6 | 645.5 | 504.9 | 368.1 | 14.9 |
| 43°   | 1109.0 | 1092.4 | 1062.2 | 1014.6 | 949.5 | 874.8 | 772.3 | 650.6 | 508.1 | 367.5 | 13.5 |
| 44°   | 1112.6 | 1095.5 | 1065.1 | 1017.5 | 952.0 | 876.2 | 772.7 | 649.6 | 505.9 | 362.6 | 12.2 |
| 45°   | 1108.6 | 1091.6 | 1062.2 | 1014.6 | 947.7 | 871.7 | 768.6 | 644.1 | 497.3 | 353.0 | 10.8 |
| 46°   | 1082.0 | 1069.0 | 1042.0 | 998.3  | 934.2 | 860.3 | 758.2 | 633.5 | 484.1 | 341.1 | 9.2  |
| 47°   | 1035.3 | 1024.9 | 998.7  | 966.3  | 908.3 | 839.3 | 739.0 | 613.3 | 465.5 | 323.4 | 7.3  |
| 48°   | 986.5  | 971.2  | 946.9  | 913.6  | 864.6 | 801.5 | 707.4 | 583.7 | 437.3 | 300.1 | 6.5  |
| 49°   | 914.4  | 905.4  | 884.0  | 846.8  | 806.2 | 750.7 | 662.7 | 545.7 | 402.8 | 274.8 | 5.7  |
| 50°   | 848.3  | 842.1  | 812.1  | 784.8  | 741.7 | 689.8 | 602.1 | 495.7 | 359.9 | 243.4 | 5.1  |
| 51°   | 796.6  | 789.3  | 767.6  | 733.5  | 687.6 | 627.4 | 544.7 | 430.8 | 310.7 | 206.0 | 4.1  |
| 52°   | 742.7  | 738.6  | 719.4  | 684.3  | 639.2 | 579.2 | 489.0 | 375.6 | 263.0 | 174.1 | 3.3  |
| 53°   | 698.6  | 692.7  | 669.2  | 638.0  | 589.2 | 527.1 | 428.5 | 324.4 | 222.7 | 146.4 | 2.9  |
| 54°   | 634.3  | 631.9  | 616.8  | 584.1  | 531.2 | 463.6 | 373.8 | 273.2 | 185.8 | 124.1 | 2.4  |
| 55°   | 565.9  | 557.8  | 542.4  | 516.5  | 467.9 | 404.8 | 310.5 | 226.4 | 150.3 | 104.5 | 1.8  |
| 56°   | 482.6  | 482.2  | 454.9  | 433.2  | 390.1 | 323.2 | 248.0 | 176.8 | 122.1 | 87.2  | 1.6  |
| 57°   | 403.0  | 390.1  | 363.8  | 342.4  | 296.0 | 245.2 | 184.1 | 132.5 | 95.5  | 70.6  | 1.2  |
| 58°   | 298.1  | 291.3  | 284.4  | 252.9  | 210.1 | 173.7 | 131.5 | 93.1  | 70.6  | 53.9  | 0.8  |
| 59°   | 202.3  | 202.1  | 193.9  | 170.1  | 145.4 | 108.2 | 82.1  | 63.3  | 48.6  | 39.6  | 0.6  |
| 60°   | 152.7  | 149.0  | 132.7  | 117.0  | 91.5  | 68.4  | 48.6  | 37.4  | 30.2  | 25.5  | 0.4  |
| 62.5° | 53.5   | 55.5   | 48.8   | 40.4   | 30.8  | 25.3  | 19.4  | 15.7  | 12.9  | 10.4  | 0.0  |
| 65°   | 11.0   | 12.0   | 10.4   | 9.8    | 7.8   | 6.7   | 5.9   | 5.1   | 4.3   | 3.7   | 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° | 1.4 | 1.2  | 1.2 | 1.2  | 1.0 | 1.0   | 1.0 | 1.0   | 0.8 | 0.8   | 0.2 |
| 70°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 |
| 75°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 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 | 0.0  | 0.0 | 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°    | 11.8  | 11.8 | 11.8   | 11.8 | 11.8   | 11.8 |
| 2.5°  | 12.5  | 12.0 | 11.4   | 11.2 | 11.0   | 11.0 |
| 5°    | 12.2  | 11.4 | 10.8   | 10.2 | 10.0   | 10.0 |
| 7.5°  | 11.6  | 10.6 | 9.8    | 9.4  | 9.2    | 9.0  |
| 10°   | 11.0  | 9.6  | 8.8    | 8.4  | 8.4    | 8.4  |
| 12.5° | 9.8   | 8.6  | 7.8    | 7.6  | 7.8    | 7.8  |
| 15°   | 8.8   | 7.3  | 6.9    | 6.9  | 7.1    | 7.3  |
| 17.5° | 7.6   | 6.5  | 6.1    | 6.3  | 6.5    | 6.7  |
| 20°   | 6.7   | 5.5  | 5.5    | 5.7  | 6.3    | 6.3  |
| 22.5° | 5.9   | 4.9  | 4.9    | 5.5  | 5.9    | 6.1  |
| 25°   | 5.3   | 4.3  | 4.5    | 5.1  | 5.7    | 5.9  |
| 27.5° | 4.5   | 3.7  | 4.1    | 4.9  | 5.5    | 5.7  |
| 30°   | 3.9   | 3.3  | 3.9    | 4.7  | 5.3    | 5.7  |
| 31°   | 3.7   | 3.1  | 3.9    | 4.5  | 5.3    | 5.7  |
| 32°   | 3.3   | 3.1  | 3.7    | 4.5  | 5.3    | 5.5  |
| 33°   | 3.1   | 2.9  | 3.7    | 4.5  | 5.3    | 5.5  |
| 34°   | 2.9   | 2.7  | 3.5    | 4.5  | 5.3    | 5.5  |
| 35°   | 2.4   | 2.7  | 3.5    | 4.3  | 5.1    | 5.5  |
| 36°   | 2.2   | 2.4  | 3.5    | 4.3  | 5.1    | 5.5  |
| 37°   | 2.0   | 2.4  | 3.3    | 4.3  | 5.1    | 5.5  |
| 38°   | 1.8   | 2.2  | 3.3    | 4.3  | 5.1    | 5.5  |
| 39°   | 1.6   | 2.2  | 3.1    | 4.3  | 5.1    | 5.5  |
| 40°   | 1.4   | 2.0  | 3.1    | 4.1  | 5.1    | 5.5  |
| 41°   | 1.4   | 2.0  | 3.1    | 4.1  | 5.1    | 5.5  |
| 42°   | 1.2   | 2.0  | 3.1    | 4.1  | 5.1    | 5.5  |
| 43°   | 1.0   | 1.8  | 3.1    | 4.1  | 5.1    | 5.5  |
| 44°   | 0.8   | 1.8  | 2.9    | 4.1  | 5.1    | 5.5  |
| 45°   | 0.8   | 1.8  | 2.9    | 4.1  | 5.1    | 5.5  |
| 46°   | 0.6   | 1.6  | 2.9    | 4.1  | 5.1    | 5.5  |
| 47°   | 0.4   | 1.6  | 2.9    | 3.9  | 5.1    | 5.5  |
| 48°   | 0.4   | 1.6  | 2.9    | 3.9  | 5.1    | 5.5  |
| 49°   | 0.4   | 1.6  | 2.7    | 3.9  | 5.1    | 5.5  |
| 50°   | 0.4   | 1.6  | 2.7    | 3.9  | 5.1    | 5.5  |
| 51°   | 0.2   | 1.4  | 2.7    | 3.9  | 5.1    | 5.5  |
| 52°   | 0.2   | 1.4  | 2.7    | 3.9  | 5.1    | 5.7  |
| 53°   | 0.2   | 1.4  | 2.7    | 3.9  | 5.1    | 5.5  |
| 54°   | 0.2   | 1.4  | 2.4    | 3.9  | 5.1    | 5.5  |
| 55°   | 0.2   | 1.4  | 2.4    | 3.9  | 5.1    | 5.5  |
| 56°   | 0.2   | 1.2  | 2.4    | 3.7  | 5.1    | 5.5  |
| 57°   | 0.4   | 1.2  | 2.4    | 3.7  | 5.1    | 5.3  |
| 58°   | 0.4   | 1.2  | 2.4    | 3.7  | 4.9    | 5.3  |
| 59°   | 0.4   | 1.2  | 2.4    | 3.7  | 4.9    | 5.3  |
| 60°   | 0.4   | 1.2  | 2.2    | 3.7  | 4.9    | 5.3  |
| 62.5° | 0.4   | 1.2  | 2.2    | 3.5  | 4.7    | 5.1  |
| 65°   | 0.4   | 1.2  | 2.0    | 3.3  | 4.7    | 4.9  |





TEST NUMBER: P1311927

CATALOG NUMBER: P3SQAS02R259727DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.0 | 2.0    | 3.1  | 4.5    | 4.7  |
| 70°   | 0.6   | 1.0 | 1.8    | 3.1  | 4.3    | 4.5  |
| 72.5° | 0.6   | 1.0 | 1.8    | 2.7  | 3.9    | 4.3  |
| 75°   | 0.6   | 1.0 | 1.6    | 2.4  | 3.7    | 3.9  |
| 77.5° | 0.6   | 1.0 | 1.4    | 2.2  | 3.3    | 3.5  |
| 80°   | 0.8   | 1.0 | 1.2    | 1.8  | 2.9    | 3.1  |
| 82.5° | 0.8   | 1.0 | 1.0    | 1.4  | 2.2    | 2.4  |
| 85°   | 0.6   | 0.8 | 0.8    | 1.0  | 1.4    | 1.6  |
| 87.5° | 0.6   | 0.8 | 0.6    | 0.4  | 0.8    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)