

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: P1315755

Luminaire Tested: P3SQAS02R159827DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315755  
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: P3SQAS02R159827DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

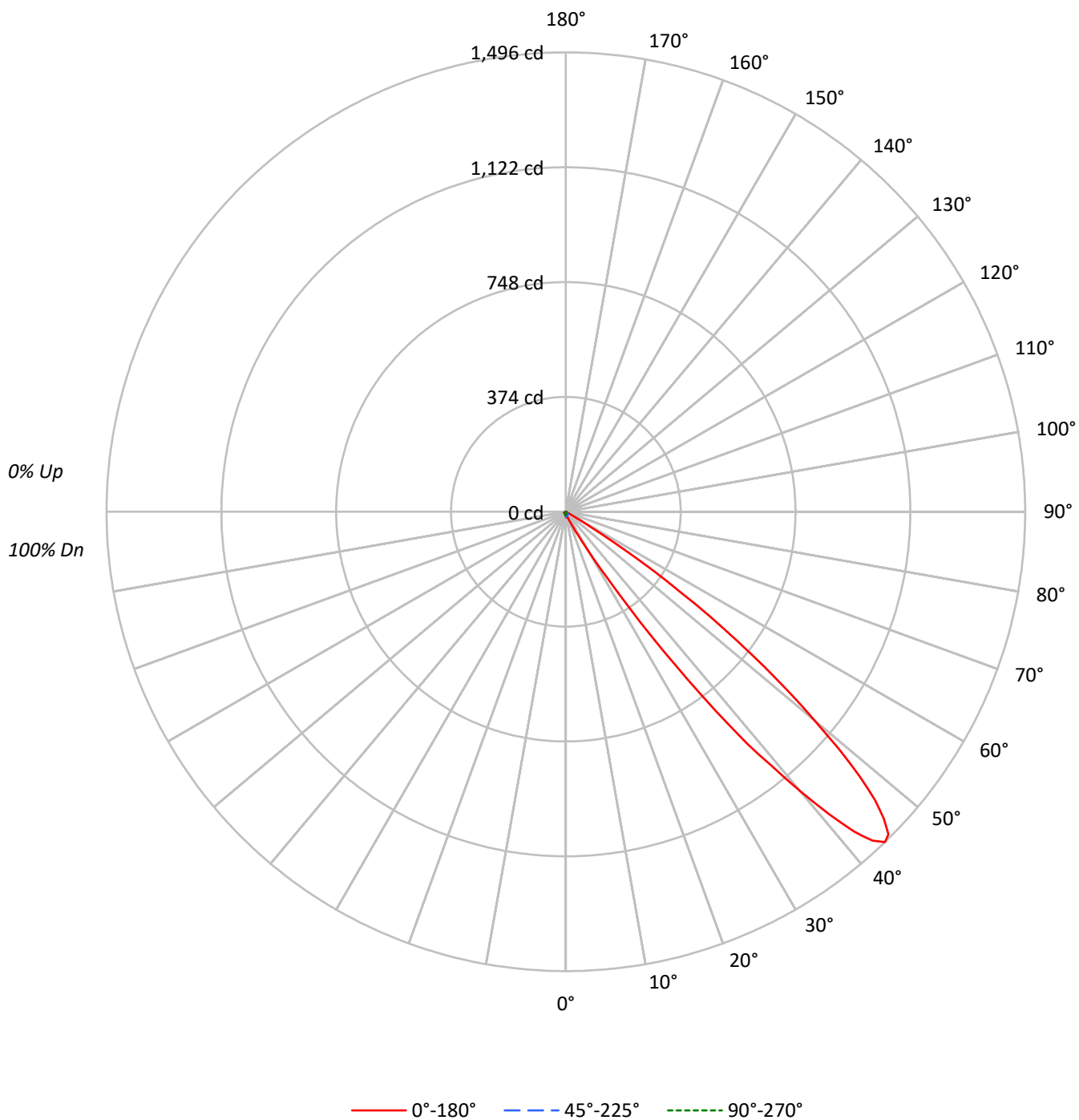
Lumens per Lamp: N/A  
Luminaire Lumens: 167.0 lumens  
Efficiency: N/A  
Efficacy: 46.4 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.08  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1315755

CATALOG NUMBER: P3SQAS02R159827DE010 E3SQCA451MW

### 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°  | 2549   | 2549 | 2549 | 2549 | 2549 |
| 5°  | 3164   | 2818 | 2299 | 2023 | 1988 |
| 10° | 3113   | 2413 | 1784 | 1574 | 1609 |
| 15° | 2585   | 1729 | 1284 | 1302 | 1391 |
| 20° | 4490   | 1375 | 971  | 1136 | 1283 |
| 25° | 9995   | 1653 | 798  | 1045 | 1197 |
| 30° | 29909  | 2028 | 696  | 1034 | 1253 |
| 35° | 115109 | 2271 | 631  | 1051 | 1325 |
| 40° | 267177 | 1978 | 607  | 1079 | 1416 |
| 45° | 361881 | 1510 | 536  | 1169 | 1534 |
| 50° | 283739 | 884  | 536  | 1259 | 1688 |
| 55° | 136198 | 390  | 510  | 1351 | 1862 |
| 60° | 12434  | 69   | 448  | 1447 | 2067 |
| 65° | 1345   | 0    | 408  | 1508 | 2241 |
| 70° | 352    | 0    | 504  | 1611 | 2417 |
| 75° | 333    | 133  | 665  | 1797 | 2795 |
| 80° | 298    | 298  | 793  | 1785 | 2975 |
| 85° | 395    | 395  | 1383 | 1581 | 3359 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 361881 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.8       |
| 10°-20°   | 2.6    | 1.6       |
| 20°-30°   | 6.3    | 3.8       |
| 30°-40°   | 34.5   | 20.7      |
| 40°-50°   | 83.6   | 50.1      |
| 50°-60°   | 33.4   | 20.0      |
| 60°-70°   | 2.9    | 1.7       |
| 70°-80°   | 1.6    | 1.0       |
| 80°-90°   | 0.7    | 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°    | 10.2   | 6.1       |
| 0°-40°    | 44.8   | 26.8      |
| 0°-60°    | 161.8  | 96.9      |
| 0°-90°    | 167.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 167.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 15   | 15  | 15  | 15   | 15   |      |
| 5°  | 18   | 16  | 13  | 12   | 12   | 2    |
| 15° | 14   | 10  | 7   | 7    | 8    | 5    |
| 25° | 53   | 9   | 4   | 6    | 6    | 32   |
| 35° | 548  | 11  | 3   | 5    | 6    | 387  |
| 45° | 1486 | 6   | 2   | 5    | 6    | 1048 |
| 55° | 454  | 1   | 2   | 4    | 6    | 423  |
| 65° | 3    | 0   | 1   | 4    | 6    | 9    |
| 75° | 0    | 0   | 1   | 3    | 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°    | 14.8   | 14.8   | 14.8   | 14.8   | 14.8   | 14.8  | 14.8  | 14.8  | 14.8  | 14.8  | 14.8 |
| 2.5°  | 16.7   | 16.7   | 16.8   | 16.7   | 16.7   | 16.7  | 16.7  | 16.5  | 16.5  | 16.5  | 16.0 |
| 5°    | 18.3   | 18.3   | 18.3   | 18.3   | 18.2   | 18.2  | 18.2  | 18.0  | 18.0  | 17.8  | 16.3 |
| 7.5°  | 19.0   | 19.0   | 18.8   | 18.8   | 18.6   | 18.6  | 18.5  | 18.3  | 18.2  | 18.0  | 15.7 |
| 10°   | 17.8   | 17.8   | 17.8   | 17.7   | 17.7   | 17.5  | 17.3  | 17.2  | 17.0  | 16.7  | 13.8 |
| 12.5° | 15.8   | 15.8   | 16.0   | 15.8   | 15.7   | 15.5  | 15.2  | 15.0  | 14.8  | 14.5  | 11.5 |
| 15°   | 14.5   | 14.5   | 14.5   | 14.3   | 14.2   | 13.8  | 13.7  | 13.3  | 13.2  | 12.7  | 9.7  |
| 17.5° | 18.5   | 18.5   | 18.3   | 18.0   | 17.3   | 16.8  | 16.0  | 15.3  | 14.5  | 13.5  | 8.3  |
| 20°   | 24.5   | 24.5   | 24.1   | 23.8   | 23.0   | 22.1  | 20.8  | 19.6  | 18.3  | 17.2  | 7.5  |
| 22.5° | 35.5   | 36.0   | 35.0   | 33.8   | 32.6   | 30.6  | 28.8  | 27.0  | 24.6  | 22.6  | 7.7  |
| 25°   | 52.6   | 53.1   | 52.6   | 50.0   | 47.8   | 45.1  | 41.6  | 38.0  | 34.0  | 30.3  | 8.7  |
| 27.5° | 85.3   | 85.6   | 84.8   | 78.3   | 74.8   | 67.8  | 61.6  | 55.6  | 49.0  | 42.3  | 9.5  |
| 30°   | 150.4  | 150.5  | 145.2  | 132.2  | 120.7  | 105.4 | 92.4  | 79.9  | 69.4  | 58.8  | 10.2 |
| 31°   | 198.0  | 193.3  | 182.0  | 166.3  | 148.0  | 127.4 | 109.6 | 93.4  | 77.8  | 66.3  | 10.3 |
| 32°   | 251.4  | 250.8  | 232.0  | 204.8  | 180.3  | 154.5 | 127.7 | 107.1 | 89.1  | 73.4  | 10.5 |
| 33°   | 322.2  | 322.5  | 292.9  | 260.9  | 220.8  | 186.2 | 151.0 | 122.7 | 101.1 | 81.9  | 10.8 |
| 34°   | 432.8  | 406.8  | 372.0  | 328.7  | 274.1  | 222.0 | 176.3 | 140.9 | 111.9 | 90.1  | 10.8 |
| 35°   | 547.5  | 521.4  | 483.1  | 417.5  | 342.5  | 269.6 | 206.5 | 160.4 | 124.9 | 98.9  | 10.8 |
| 36°   | 676.0  | 653.9  | 596.0  | 512.2  | 416.6  | 314.5 | 238.4 | 182.8 | 137.7 | 106.9 | 10.7 |
| 37°   | 814.9  | 782.5  | 718.2  | 626.8  | 498.9  | 377.8 | 277.4 | 205.1 | 150.5 | 115.6 | 10.3 |
| 38°   | 956.0  | 926.7  | 845.6  | 734.8  | 597.1  | 444.6 | 316.4 | 226.6 | 162.4 | 122.1 | 9.8  |
| 39°   | 1062.9 | 1046.9 | 966.5  | 842.7  | 675.6  | 507.9 | 356.5 | 249.6 | 174.8 | 128.5 | 9.3  |
| 40°   | 1188.4 | 1162.6 | 1086.3 | 933.3  | 768.3  | 572.3 | 395.8 | 269.9 | 185.2 | 133.7 | 8.8  |
| 41°   | 1303.0 | 1270.3 | 1174.1 | 1026.2 | 842.6  | 630.3 | 433.1 | 290.9 | 193.5 | 136.7 | 8.5  |
| 42°   | 1401.2 | 1363.3 | 1262.7 | 1105.8 | 904.7  | 676.5 | 462.9 | 305.9 | 201.3 | 139.2 | 8.0  |
| 43°   | 1464.8 | 1432.0 | 1333.1 | 1165.6 | 957.8  | 719.0 | 490.7 | 321.5 | 206.1 | 140.9 | 7.3  |
| 44°   | 1495.8 | 1462.7 | 1366.9 | 1203.1 | 990.4  | 744.5 | 508.7 | 332.4 | 211.5 | 143.0 | 6.8  |
| 45°   | 1485.8 | 1452.2 | 1359.6 | 1203.7 | 1000.6 | 753.6 | 516.4 | 337.2 | 214.3 | 145.0 | 6.2  |
| 46°   | 1440.0 | 1416.4 | 1323.1 | 1172.4 | 981.3  | 743.8 | 512.0 | 333.5 | 213.3 | 145.0 | 5.5  |
| 47°   | 1375.7 | 1348.8 | 1260.0 | 1118.6 | 934.5  | 718.5 | 494.5 | 322.4 | 207.1 | 141.7 | 4.8  |
| 48°   | 1288.2 | 1265.2 | 1171.9 | 1033.2 | 862.7  | 663.4 | 455.1 | 304.2 | 197.5 | 135.2 | 4.2  |
| 49°   | 1178.3 | 1146.3 | 1059.5 | 924.0  | 769.1  | 585.1 | 403.3 | 273.6 | 182.0 | 126.1 | 3.7  |
| 50°   | 1059.0 | 1019.6 | 952.6  | 814.6  | 672.4  | 501.7 | 335.2 | 231.3 | 160.2 | 114.1 | 3.3  |
| 51°   | 942.3  | 902.2  | 838.4  | 721.0  | 569.1  | 416.3 | 270.4 | 184.7 | 131.9 | 97.6  | 2.8  |
| 52°   | 821.3  | 787.6  | 716.2  | 623.9  | 487.2  | 337.4 | 225.3 | 156.2 | 109.6 | 81.9  | 2.3  |
| 53°   | 700.7  | 677.7  | 609.8  | 516.4  | 391.5  | 275.6 | 184.0 | 133.7 | 95.6  | 70.1  | 1.8  |
| 54°   | 580.0  | 554.8  | 503.2  | 420.0  | 315.5  | 217.5 | 156.0 | 111.9 | 82.9  | 61.1  | 1.7  |
| 55°   | 453.6  | 440.6  | 393.0  | 320.2  | 239.1  | 173.5 | 126.6 | 96.2  | 69.4  | 51.1  | 1.3  |
| 56°   | 349.3  | 334.7  | 291.2  | 232.3  | 177.7  | 135.9 | 102.4 | 78.6  | 58.8  | 42.8  | 1.0  |
| 57°   | 228.8  | 213.8  | 185.0  | 162.2  | 129.4  | 99.1  | 78.3  | 61.9  | 47.8  | 35.5  | 0.8  |
| 58°   | 135.2  | 121.6  | 117.1  | 99.9   | 86.3   | 67.3  | 57.8  | 46.1  | 35.3  | 28.0  | 0.5  |
| 59°   | 62.1   | 63.1   | 56.1   | 52.6   | 47.8   | 42.8  | 35.1  | 30.8  | 24.1  | 20.1  | 0.3  |
| 60°   | 36.1   | 34.1   | 33.3   | 29.8   | 26.5   | 23.5  | 21.1  | 18.6  | 15.2  | 13.0  | 0.2  |
| 62.5° | 12.3   | 11.8   | 12.2   | 11.0   | 10.3   | 10.0  | 9.2   | 7.8   | 6.5   | 5.3   | 0.0  |
| 65°   | 3.3    | 3.3    | 3.2    | 3.0    | 2.8    | 2.7   | 2.5   | 2.2   | 2.0   | 1.7   | 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° | 1.2 | 1.2  | 1.0 | 1.0  | 0.8 | 0.8   | 0.7 | 0.7   | 0.5 | 0.5   | 0.0 |
| 70°   | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.3 | 0.3   | 0.3 | 0.2   | 0.0 |
| 72.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.3 | 0.3   | 0.3 | 0.2   | 0.2 |
| 75°   | 0.5 | 0.5  | 0.5 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.2 |
| 77.5° | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 |
| 80°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.2   | 0.3 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.3 |
| 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°    | 14.8  | 14.8 | 14.8   | 14.8 | 14.8   | 14.8 |
| 2.5°  | 15.3  | 14.7 | 13.8   | 13.3 | 13.2   | 13.0 |
| 5°    | 14.7  | 13.3 | 12.3   | 11.7 | 11.5   | 11.5 |
| 7.5°  | 13.2  | 11.7 | 10.7   | 10.3 | 10.2   | 10.2 |
| 10°   | 11.5  | 10.2 | 9.3    | 9.0  | 9.2    | 9.2  |
| 12.5° | 9.7   | 8.5  | 8.2    | 8.2  | 8.3    | 8.5  |
| 15°   | 7.8   | 7.2  | 7.2    | 7.3  | 7.7    | 7.8  |
| 17.5° | 6.5   | 6.2  | 6.3    | 6.7  | 7.0    | 7.3  |
| 20°   | 5.3   | 5.3  | 5.7    | 6.2  | 6.7    | 7.0  |
| 22.5° | 4.5   | 4.7  | 5.2    | 5.7  | 6.3    | 6.7  |
| 25°   | 3.8   | 4.2  | 4.7    | 5.5  | 6.2    | 6.3  |
| 27.5° | 3.3   | 3.8  | 4.5    | 5.3  | 6.0    | 6.3  |
| 30°   | 2.8   | 3.5  | 4.3    | 5.2  | 6.0    | 6.3  |
| 31°   | 2.7   | 3.3  | 4.2    | 5.2  | 6.0    | 6.3  |
| 32°   | 2.5   | 3.3  | 4.2    | 5.2  | 6.0    | 6.3  |
| 33°   | 2.3   | 3.2  | 4.2    | 5.0  | 6.0    | 6.3  |
| 34°   | 2.2   | 3.2  | 4.2    | 5.2  | 6.0    | 6.3  |
| 35°   | 2.0   | 3.0  | 4.0    | 5.0  | 5.8    | 6.3  |
| 36°   | 1.8   | 3.0  | 4.0    | 5.0  | 6.0    | 6.3  |
| 37°   | 1.7   | 3.0  | 4.0    | 5.0  | 5.8    | 6.3  |
| 38°   | 1.7   | 2.8  | 3.8    | 5.0  | 5.8    | 6.3  |
| 39°   | 1.5   | 2.7  | 3.8    | 5.0  | 5.8    | 6.3  |
| 40°   | 1.3   | 2.7  | 3.7    | 4.8  | 5.8    | 6.3  |
| 41°   | 1.2   | 2.5  | 3.7    | 4.8  | 5.8    | 6.3  |
| 42°   | 1.0   | 2.5  | 3.7    | 4.8  | 5.8    | 6.3  |
| 43°   | 0.8   | 2.3  | 3.5    | 4.8  | 5.8    | 6.3  |
| 44°   | 0.8   | 2.3  | 3.5    | 4.8  | 5.8    | 6.3  |
| 45°   | 0.7   | 2.2  | 3.3    | 4.8  | 5.8    | 6.3  |
| 46°   | 0.7   | 2.2  | 3.3    | 4.7  | 5.8    | 6.3  |
| 47°   | 0.5   | 2.2  | 3.3    | 4.7  | 5.8    | 6.3  |
| 48°   | 0.5   | 2.0  | 3.3    | 4.7  | 5.8    | 6.3  |
| 49°   | 0.3   | 2.0  | 3.3    | 4.7  | 5.8    | 6.3  |
| 50°   | 0.3   | 2.0  | 3.2    | 4.7  | 5.8    | 6.3  |
| 51°   | 0.3   | 2.0  | 3.2    | 4.7  | 5.8    | 6.3  |
| 52°   | 0.3   | 1.8  | 3.2    | 4.7  | 5.8    | 6.3  |
| 53°   | 0.3   | 1.8  | 3.2    | 4.7  | 5.8    | 6.3  |
| 54°   | 0.3   | 1.8  | 3.0    | 4.7  | 5.8    | 6.3  |
| 55°   | 0.3   | 1.7  | 3.0    | 4.5  | 5.8    | 6.2  |
| 56°   | 0.3   | 1.7  | 3.0    | 4.5  | 5.8    | 6.2  |
| 57°   | 0.3   | 1.7  | 2.8    | 4.5  | 5.8    | 6.2  |
| 58°   | 0.3   | 1.5  | 2.8    | 4.3  | 5.7    | 6.2  |
| 59°   | 0.3   | 1.5  | 2.7    | 4.3  | 5.7    | 6.0  |
| 60°   | 0.3   | 1.3  | 2.7    | 4.2  | 5.5    | 6.0  |
| 62.5° | 0.3   | 1.2  | 2.3    | 4.0  | 5.3    | 5.7  |
| 65°   | 0.3   | 1.0  | 2.2    | 3.7  | 5.2    | 5.5  |





TEST NUMBER: P1315755

CATALOG NUMBER: P3SQAS02R159827DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.3   | 1.0 | 2.0    | 3.5  | 4.8    | 5.3  |
| 70°   | 0.3   | 1.0 | 1.8    | 3.2  | 4.7    | 4.8  |
| 72.5° | 0.5   | 1.0 | 1.7    | 3.0  | 4.3    | 4.5  |
| 75°   | 0.7   | 1.0 | 1.5    | 2.7  | 4.0    | 4.2  |
| 77.5° | 0.7   | 1.0 | 1.3    | 2.3  | 3.5    | 3.7  |
| 80°   | 0.7   | 0.8 | 1.2    | 1.8  | 2.8    | 3.0  |
| 82.5° | 0.7   | 0.8 | 0.8    | 1.5  | 2.2    | 2.3  |
| 85°   | 0.5   | 0.7 | 0.7    | 0.8  | 1.5    | 1.7  |
| 87.5° | 0.5   | 0.7 | 0.3    | 0.5  | 0.7    | 0.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)