

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: P1316647

Luminaire Tested: P3SQAS02R209830DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316647  
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: P3SQAS02R209830DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

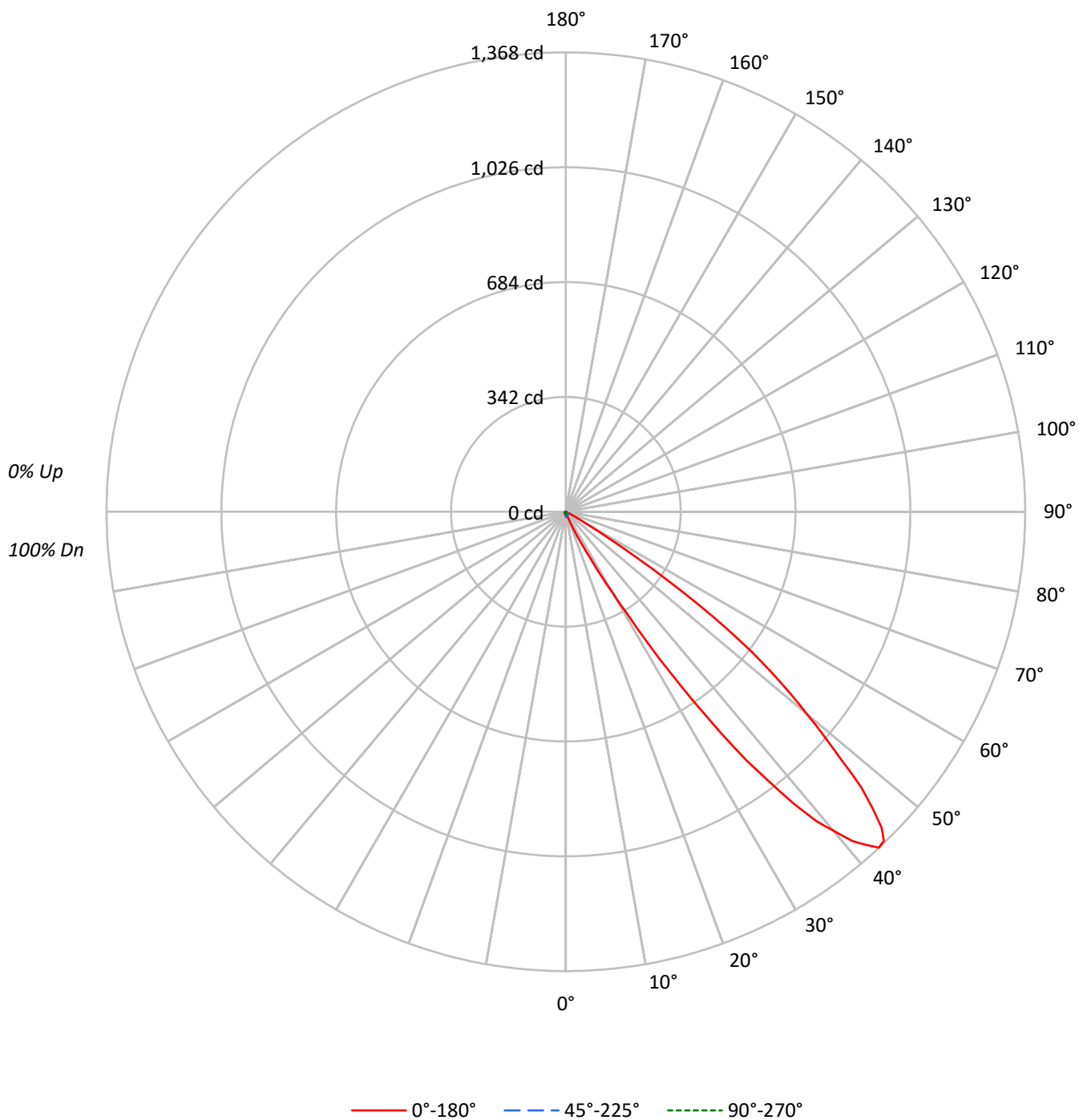
Lumens per Lamp: N/A  
Luminaire Lumens: 190.0 lumens  
Efficiency: N/A  
Efficacy: 52.8 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.52 / 1.14  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1316647

CATALOG NUMBER: P3SQAS02R209830DE010 E3SQCA451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1316647

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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  | 0   |
| 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  | 65  |  | 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  | 38  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  |  | 44  | 37  | 32  |  | 43  | 36  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  | 31  | 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  | 19  |  | 31  | 24  | 19  |  | 30  | 24  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2273   | 2273 | 2273 | 2273 | 2273 |
| 5°  | 2662   | 2472 | 2126 | 1850 | 1798 |
| 10° | 2623   | 2256 | 1679 | 1434 | 1399 |
| 15° | 2300   | 1712 | 1248 | 1141 | 1212 |
| 20° | 3409   | 1448 | 916  | 990  | 1081 |
| 25° | 14651  | 1501 | 703  | 874  | 1045 |
| 30° | 55424  | 1810 | 597  | 855  | 1034 |
| 35° | 168028 | 2187 | 568  | 862  | 1093 |
| 40° | 278643 | 2158 | 472  | 922  | 1169 |
| 45° | 323861 | 1486 | 438  | 950  | 1267 |
| 50° | 251400 | 804  | 429  | 991  | 1447 |
| 55° | 145506 | 540  | 420  | 1111 | 1561 |
| 60° | 24593  | 138  | 379  | 1171 | 1722 |
| 65° | 1875   | 0    | 448  | 1304 | 1956 |
| 70° | 252    | 0    | 554  | 1460 | 2266 |
| 75° | 266    | 133  | 599  | 1664 | 2595 |
| 80° | 198    | 198  | 893  | 1785 | 2975 |
| 85° | 395    | 395  | 1383 | 1778 | 3162 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 323861 cd/sqm

TEST NUMBER: P1316647

CATALOG NUMBER: P3SQAS02R209830DE010 E3SQCA451MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.6       |
| 10°-20°   | 2.4    | 1.2       |
| 20°-30°   | 7.6    | 4.0       |
| 30°-40°   | 48.5   | 25.5      |
| 40°-50°   | 88.7   | 46.7      |
| 50°-60°   | 36.4   | 19.2      |
| 60°-70°   | 3.1    | 1.6       |
| 70°-80°   | 1.5    | 0.8       |
| 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°    | 11.1   | 5.8       |
| 0°-40°    | 59.5   | 31.3      |
| 0°-60°    | 184.7  | 97.2      |
| 0°-90°    | 190.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 190.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 13   | 13  | 13  | 13   | 13   |      |
| 5°  | 15   | 14  | 12  | 11   | 10   | 1    |
| 15° | 13   | 10  | 7   | 6    | 7    | 4    |
| 25° | 77   | 8   | 4   | 5    | 6    | 51   |
| 35° | 799  | 10  | 3   | 4    | 5    | 506  |
| 45° | 1330 | 6   | 2   | 4    | 5    | 955  |
| 55° | 485  | 2   | 1   | 4    | 5    | 424  |
| 65° | 5    | 0   | 1   | 3    | 5    | 15   |
| 75° | 0    | 0   | 1   | 2    | 4    | 0    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1316647

CATALOG NUMBER: P3SQAS02R209830DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|
| 0°    | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2  | 13.2  | 13.2  | 13.2  | 13.2  | 13.2 |
| 2.5°  | 14.5   | 14.5   | 14.5   | 14.3   | 14.3   | 14.5  | 14.3  | 14.3  | 14.3  | 14.3  | 14.1 |
| 5°    | 15.4   | 15.4   | 15.4   | 15.4   | 15.4   | 15.4  | 15.4  | 15.2  | 15.2  | 15.0  | 14.3 |
| 7.5°  | 15.7   | 15.7   | 15.7   | 15.7   | 15.5   | 15.5  | 15.5  | 15.5  | 15.4  | 15.2  | 13.9 |
| 10°   | 15.0   | 15.0   | 15.0   | 14.8   | 14.8   | 14.8  | 14.6  | 14.6  | 14.5  | 14.3  | 12.9 |
| 12.5° | 13.6   | 13.6   | 13.6   | 13.6   | 13.4   | 13.4  | 13.2  | 13.2  | 13.0  | 12.9  | 11.2 |
| 15°   | 12.9   | 12.9   | 12.9   | 12.7   | 12.7   | 12.5  | 12.3  | 12.1  | 12.0  | 11.6  | 9.6  |
| 17.5° | 13.9   | 13.9   | 13.7   | 13.7   | 13.4   | 13.0  | 12.9  | 12.3  | 12.0  | 11.4  | 8.6  |
| 20°   | 18.6   | 18.7   | 18.0   | 17.5   | 17.1   | 16.1  | 15.5  | 14.6  | 13.9  | 13.0  | 7.9  |
| 22.5° | 37.5   | 36.8   | 35.5   | 33.6   | 31.2   | 29.3  | 25.7  | 22.9  | 20.9  | 18.2  | 7.7  |
| 25°   | 77.1   | 76.4   | 73.0   | 70.2   | 63.0   | 57.5  | 49.8  | 43.6  | 37.1  | 30.9  | 7.9  |
| 27.5° | 146.6  | 141.8  | 140.9  | 127.8  | 117.8  | 103.6 | 88.7  | 76.2  | 64.8  | 52.1  | 8.4  |
| 30°   | 278.7  | 273.2  | 253.7  | 234.1  | 207.1  | 176.6 | 147.5 | 120.3 | 97.7  | 77.1  | 9.1  |
| 31°   | 353.7  | 359.1  | 336.2  | 296.8  | 256.9  | 217.8 | 178.0 | 143.6 | 114.3 | 88.7  | 9.5  |
| 32°   | 465.0  | 441.6  | 417.5  | 376.9  | 319.1  | 269.1 | 219.1 | 169.4 | 130.9 | 101.2 | 9.8  |
| 33°   | 570.1  | 556.4  | 519.6  | 469.1  | 399.6  | 329.4 | 264.6 | 200.0 | 151.2 | 116.4 | 10.0 |
| 34°   | 682.3  | 667.1  | 637.3  | 564.8  | 488.5  | 396.6 | 310.2 | 235.2 | 175.5 | 131.2 | 10.2 |
| 35°   | 799.2  | 792.8  | 735.3  | 672.4  | 578.7  | 467.8 | 365.0 | 273.7 | 199.3 | 144.8 | 10.4 |
| 36°   | 916.9  | 896.2  | 851.2  | 759.4  | 661.5  | 533.7 | 422.5 | 309.6 | 223.4 | 160.9 | 10.4 |
| 37°   | 1005.4 | 1000.8 | 941.2  | 851.7  | 736.7  | 604.1 | 472.1 | 349.4 | 247.7 | 174.6 | 10.4 |
| 38°   | 1103.1 | 1084.7 | 1024.2 | 933.1  | 807.4  | 668.5 | 524.1 | 384.1 | 270.7 | 187.1 | 10.2 |
| 39°   | 1185.4 | 1158.1 | 1097.0 | 1007.1 | 869.2  | 717.4 | 565.3 | 417.6 | 291.0 | 197.5 | 10.0 |
| 40°   | 1239.4 | 1220.4 | 1156.7 | 1055.4 | 925.3  | 763.7 | 607.1 | 445.3 | 306.2 | 205.3 | 9.6  |
| 41°   | 1298.8 | 1267.4 | 1204.4 | 1102.6 | 966.0  | 804.4 | 633.3 | 463.5 | 318.0 | 210.5 | 9.3  |
| 42°   | 1334.3 | 1308.6 | 1233.8 | 1134.2 | 995.1  | 827.6 | 654.8 | 477.5 | 325.1 | 213.2 | 8.6  |
| 43°   | 1367.6 | 1332.6 | 1259.7 | 1152.6 | 1014.4 | 844.0 | 664.6 | 483.9 | 326.8 | 213.2 | 7.7  |
| 44°   | 1363.1 | 1329.9 | 1254.4 | 1155.1 | 1018.7 | 848.9 | 668.7 | 484.1 | 324.3 | 210.5 | 6.8  |
| 45°   | 1329.7 | 1296.7 | 1228.6 | 1133.3 | 1003.3 | 839.4 | 660.5 | 476.9 | 317.3 | 205.9 | 6.1  |
| 46°   | 1268.5 | 1235.6 | 1183.5 | 1096.9 | 974.7  | 818.0 | 641.4 | 461.4 | 305.7 | 198.4 | 5.4  |
| 47°   | 1201.9 | 1169.9 | 1116.5 | 1038.1 | 926.0  | 779.8 | 613.7 | 439.6 | 289.4 | 187.5 | 4.8  |
| 48°   | 1105.3 | 1085.3 | 1031.7 | 964.7  | 858.3  | 719.9 | 565.1 | 404.1 | 267.7 | 173.4 | 4.1  |
| 49°   | 1019.9 | 998.8  | 951.9  | 879.9  | 770.1  | 650.3 | 507.1 | 360.9 | 239.3 | 157.7 | 3.6  |
| 50°   | 938.3  | 919.9  | 876.5  | 795.3  | 690.5  | 566.2 | 428.7 | 306.4 | 203.6 | 138.2 | 3.0  |
| 51°   | 858.5  | 844.7  | 800.5  | 725.8  | 619.4  | 501.6 | 371.4 | 255.2 | 168.2 | 114.6 | 2.9  |
| 52°   | 778.3  | 776.7  | 728.7  | 653.2  | 550.3  | 437.1 | 315.7 | 215.3 | 142.7 | 96.2  | 2.7  |
| 53°   | 692.1  | 681.7  | 639.8  | 571.9  | 473.2  | 370.0 | 267.7 | 181.6 | 122.8 | 82.0  | 2.3  |
| 54°   | 593.9  | 582.3  | 537.3  | 476.0  | 386.6  | 303.0 | 215.7 | 146.8 | 102.3 | 69.3  | 2.1  |
| 55°   | 484.6  | 464.8  | 432.1  | 369.3  | 301.9  | 231.2 | 166.6 | 116.2 | 81.8  | 57.7  | 1.8  |
| 56°   | 367.6  | 347.8  | 329.4  | 283.2  | 221.6  | 172.5 | 124.1 | 89.1  | 63.9  | 45.5  | 1.6  |
| 57°   | 255.7  | 254.6  | 224.4  | 188.9  | 148.2  | 117.5 | 85.0  | 62.9  | 45.2  | 35.4  | 1.2  |
| 58°   | 165.9  | 160.3  | 141.1  | 120.5  | 97.0   | 73.4  | 54.6  | 42.7  | 30.7  | 24.1  | 1.1  |
| 59°   | 116.2  | 105.2  | 94.8   | 80.3   | 61.1   | 46.2  | 35.2  | 27.3  | 21.2  | 16.8  | 0.7  |
| 60°   | 71.4   | 69.1   | 62.1   | 48.9   | 39.6   | 32.7  | 26.2  | 20.2  | 15.5  | 12.0  | 0.4  |
| 62.5° | 20.4   | 20.7   | 18.7   | 16.6   | 14.3   | 12.3  | 11.1  | 9.5   | 7.9   | 6.2   | 0.0  |
| 65°   | 4.6    | 4.5    | 4.8    | 4.5    | 4.1    | 4.1   | 3.6   | 3.2   | 2.9   | 2.7   | 0.0  |



TEST NUMBER: P1316647

CATALOG NUMBER: P3SQAS02R209830DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 1.4 | 1.4  | 1.2 | 1.2  | 1.2 | 1.1   | 1.1 | 0.9   | 0.9 | 0.7   | 0.0 |
| 70°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.5 | 0.5  | 0.5 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 | 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 | 0.2   | 0.4 | 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   | 0.2 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.0 | 0.0   | 0.2 | 0.2   | 0.2 | 0.0   | 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 |

TEST NUMBER: P1316647

CATALOG NUMBER: P3SQAS02R209830DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 13.2  | 13.2 | 13.2   | 13.2 | 13.2   | 13.2 |
| 2.5°  | 13.7  | 13.0 | 12.5   | 12.0 | 11.8   | 11.8 |
| 5°    | 13.4  | 12.3 | 11.2   | 10.7 | 10.4   | 10.4 |
| 7.5°  | 12.3  | 11.1 | 10.0   | 9.5  | 9.3    | 9.3  |
| 10°   | 11.1  | 9.6  | 8.6    | 8.2  | 8.2    | 8.0  |
| 12.5° | 9.6   | 8.2  | 7.5    | 7.3  | 7.3    | 7.3  |
| 15°   | 8.0   | 7.0  | 6.4    | 6.4  | 6.6    | 6.8  |
| 17.5° | 6.8   | 5.7  | 5.5    | 5.9  | 6.2    | 6.2  |
| 20°   | 5.7   | 5.0  | 5.0    | 5.4  | 5.7    | 5.9  |
| 22.5° | 4.8   | 4.3  | 4.5    | 5.0  | 5.5    | 5.7  |
| 25°   | 4.3   | 3.7  | 4.1    | 4.6  | 5.2    | 5.5  |
| 27.5° | 3.6   | 3.4  | 3.7    | 4.5  | 5.2    | 5.4  |
| 30°   | 3.0   | 3.0  | 3.6    | 4.3  | 5.0    | 5.2  |
| 31°   | 2.9   | 2.9  | 3.6    | 4.3  | 5.0    | 5.2  |
| 32°   | 2.7   | 2.9  | 3.4    | 4.3  | 5.0    | 5.2  |
| 33°   | 2.5   | 2.7  | 3.4    | 4.1  | 5.0    | 5.2  |
| 34°   | 2.3   | 2.7  | 3.4    | 4.1  | 5.0    | 5.2  |
| 35°   | 2.1   | 2.7  | 3.4    | 4.1  | 5.0    | 5.2  |
| 36°   | 2.0   | 2.5  | 3.2    | 4.1  | 5.0    | 5.2  |
| 37°   | 1.8   | 2.5  | 3.2    | 4.1  | 5.0    | 5.2  |
| 38°   | 1.6   | 2.3  | 3.2    | 4.1  | 5.0    | 5.2  |
| 39°   | 1.6   | 2.3  | 3.0    | 4.1  | 4.8    | 5.2  |
| 40°   | 1.4   | 2.1  | 3.0    | 4.1  | 4.8    | 5.2  |
| 41°   | 1.2   | 2.1  | 3.0    | 3.9  | 4.8    | 5.2  |
| 42°   | 1.1   | 2.0  | 2.9    | 3.9  | 4.8    | 5.2  |
| 43°   | 0.9   | 2.0  | 2.9    | 3.9  | 4.8    | 5.2  |
| 44°   | 0.9   | 1.8  | 2.9    | 3.9  | 4.8    | 5.2  |
| 45°   | 0.7   | 1.8  | 2.9    | 3.9  | 4.8    | 5.2  |
| 46°   | 0.5   | 1.8  | 2.9    | 3.9  | 4.8    | 5.2  |
| 47°   | 0.5   | 1.6  | 2.7    | 3.9  | 4.8    | 5.2  |
| 48°   | 0.4   | 1.6  | 2.7    | 3.9  | 4.8    | 5.2  |
| 49°   | 0.4   | 1.6  | 2.7    | 3.9  | 4.8    | 5.4  |
| 50°   | 0.4   | 1.6  | 2.7    | 3.7  | 4.8    | 5.4  |
| 51°   | 0.2   | 1.6  | 2.7    | 3.7  | 4.8    | 5.4  |
| 52°   | 0.2   | 1.6  | 2.5    | 3.7  | 5.0    | 5.4  |
| 53°   | 0.2   | 1.4  | 2.5    | 3.7  | 5.0    | 5.4  |
| 54°   | 0.2   | 1.4  | 2.5    | 3.7  | 5.0    | 5.2  |
| 55°   | 0.2   | 1.4  | 2.5    | 3.7  | 4.8    | 5.2  |
| 56°   | 0.2   | 1.2  | 2.5    | 3.7  | 4.8    | 5.2  |
| 57°   | 0.2   | 1.2  | 2.3    | 3.6  | 4.8    | 5.0  |
| 58°   | 0.2   | 1.2  | 2.3    | 3.6  | 4.8    | 5.0  |
| 59°   | 0.2   | 1.2  | 2.3    | 3.6  | 4.6    | 5.0  |
| 60°   | 0.4   | 1.1  | 2.1    | 3.4  | 4.6    | 5.0  |
| 62.5° | 0.4   | 1.1  | 2.1    | 3.4  | 4.5    | 4.8  |
| 65°   | 0.4   | 1.1  | 2.0    | 3.2  | 4.5    | 4.8  |





TEST NUMBER: P1316647

CATALOG NUMBER: P3SQAS02R209830DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 0.9 | 1.8    | 3.0  | 4.3    | 4.6  |
| 70°   | 0.4   | 1.1 | 1.8    | 2.9  | 4.1    | 4.5  |
| 72.5° | 0.5   | 0.9 | 1.6    | 2.7  | 3.9    | 4.3  |
| 75°   | 0.5   | 0.9 | 1.6    | 2.5  | 3.7    | 3.9  |
| 77.5° | 0.7   | 0.9 | 1.4    | 2.1  | 3.4    | 3.6  |
| 80°   | 0.7   | 0.9 | 1.2    | 1.8  | 2.9    | 3.0  |
| 82.5° | 0.7   | 0.9 | 0.9    | 1.4  | 2.1    | 2.3  |
| 85°   | 0.5   | 0.7 | 0.7    | 0.9  | 1.4    | 1.6  |
| 87.5° | 0.5   | 0.7 | 0.5    | 0.4  | 0.7    | 0.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)