

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: P1340439

Luminaire Tested: P3A09R209727DE010 E3A451WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R209727DE010 E3A451WH  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

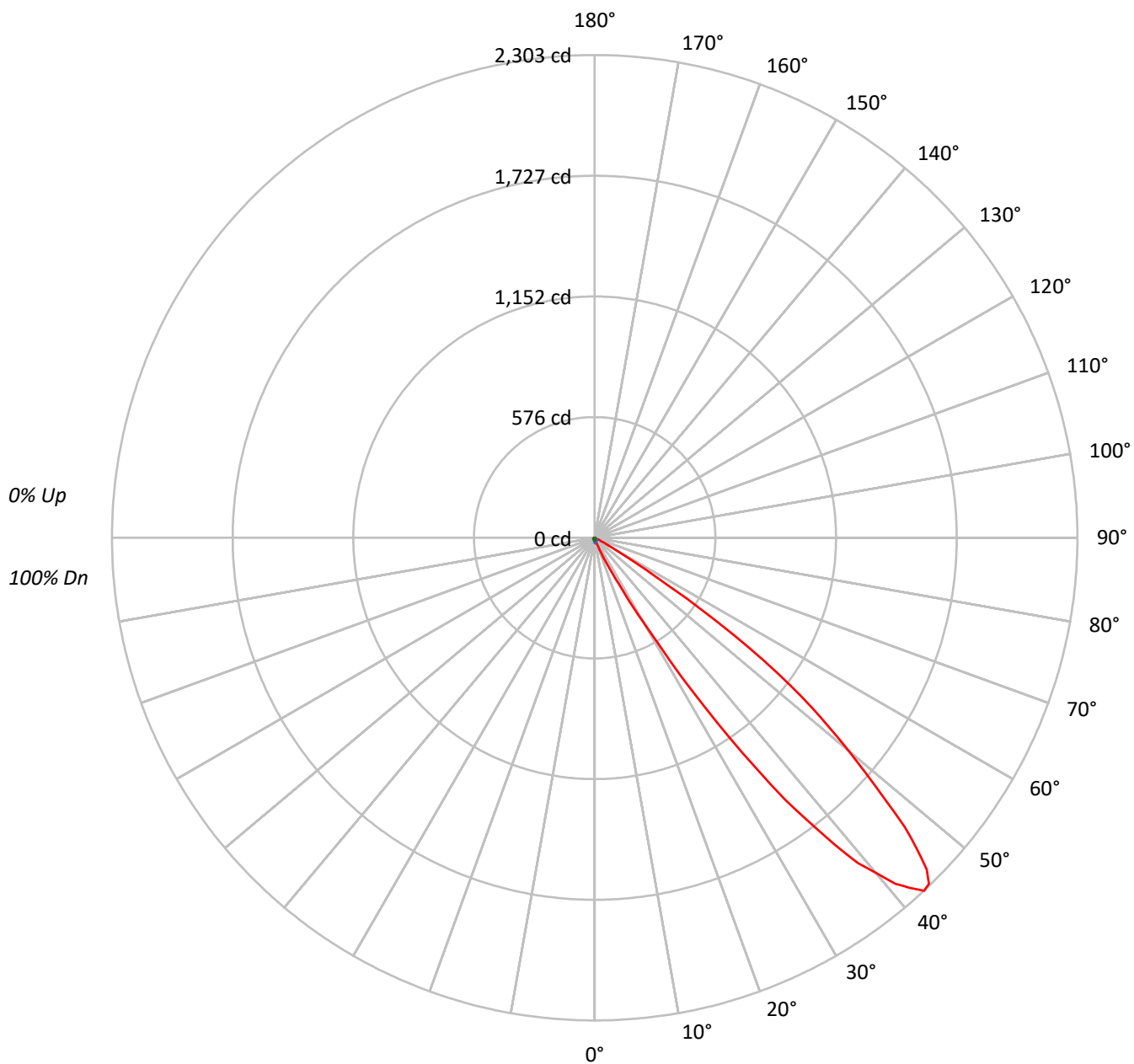
Lumens per Lamp: N/A  
Luminaire Lumens: 319.9 lumens  
Efficiency: N/A  
Efficacy: 28.8 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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: P1340439

CATALOG NUMBER: P3A09R209727DE010 E3A451WH

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  |  | 96  | 94  | 92  |  | 92  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  |  | 85  | 81  | 77  |  | 82  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  |  | 44  | 37  | 32  |  | 43  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  |  | 31  | 24  | 19  |  | 30  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 4890   | 4890 | 4890 | 4890 | 4890 |
| 5°  | 5701   | 5305 | 4578 | 3962 | 3830 |
| 10° | 5633   | 4832 | 3607 | 3073 | 3006 |
| 15° | 4926   | 3678 | 2656 | 2452 | 2588 |
| 20° | 7304   | 3080 | 1960 | 2100 | 2310 |
| 25° | 31429  | 3194 | 1524 | 1887 | 2250 |
| 30° | 118854 | 3874 | 1291 | 1823 | 2203 |
| 35° | 360314 | 4658 | 1205 | 1847 | 2329 |
| 40° | 597491 | 4637 | 1031 | 1975 | 2490 |
| 45° | 694491 | 3163 | 930  | 2047 | 2698 |
| 50° | 539104 | 1740 | 921  | 2149 | 3070 |
| 55° | 312037 | 1147 | 918  | 2409 | 3326 |
| 60° | 52759  | 263  | 789  | 2500 | 3684 |
| 65° | 4047   | 0    | 934  | 2802 | 4203 |
| 70° | 577    | 0    | 1154 | 3077 | 4809 |
| 75° | 508    | 254  | 1271 | 3558 | 5592 |
| 80° | 379    | 379  | 1894 | 3788 | 6440 |
| 85° | 755    | 755  | 3019 | 3774 | 6793 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 694491 cd/sqm

TEST NUMBER: P1340439

CATALOG NUMBER: P3A09R209727DE010 E3A451WH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.6       |
| 10°-20°   | 4.0    | 1.2       |
| 20°-30°   | 12.8   | 4.0       |
| 30°-40°   | 81.6   | 25.5      |
| 40°-50°   | 149.4  | 46.7      |
| 50°-60°   | 61.4   | 19.2      |
| 60°-70°   | 5.2    | 1.6       |
| 70°-80°   | 2.6    | 0.8       |
| 80°-90°   | 1.2    | 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°    | 18.7   | 5.8       |
| 0°-40°    | 100.3  | 31.3      |
| 0°-60°    | 311.0  | 97.2      |
| 0°-90°    | 319.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 319.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 22   | 22  | 22  | 22   | 22   |      |
| 5°  | 26   | 24  | 21  | 18   | 17   | 2    |
| 15° | 22   | 16  | 12  | 11   | 11   | 7    |
| 25° | 130  | 13  | 6   | 8    | 9    | 85   |
| 35° | 1346 | 17  | 4   | 7    | 9    | 852  |
| 45° | 2240 | 10  | 3   | 7    | 9    | 1608 |
| 55° | 816  | 3   | 2   | 6    | 9    | 713  |
| 65° | 8    | 0   | 2   | 5    | 8    | 25   |
| 75° | 1    | 0   | 2   | 4    | 7    | 1    |
| 85° | 0    | 0   | 1   | 2    | 3    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1340439

CATALOG NUMBER: P3A09R209727DE010 E3A451WH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0°    | 22.3   | 22.3   | 22.3   | 22.3   | 22.3   | 22.3   | 22.3   | 22.3  | 22.3  | 22.3  | 22.3 |
| 2.5°  | 24.4   | 24.4   | 24.4   | 24.1   | 24.1   | 24.4   | 24.1   | 24.1  | 24.1  | 24.1  | 23.8 |
| 5°    | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.9   | 25.6  | 25.6  | 25.3  | 24.1 |
| 7.5°  | 26.5   | 26.5   | 26.5   | 26.5   | 26.2   | 26.2   | 26.2   | 26.2  | 25.9  | 25.6  | 23.5 |
| 10°   | 25.3   | 25.3   | 25.3   | 25.0   | 25.0   | 25.0   | 24.7   | 24.7  | 24.4  | 24.1  | 21.7 |
| 12.5° | 22.9   | 22.9   | 22.9   | 22.9   | 22.6   | 22.6   | 22.3   | 22.3  | 22.0  | 21.7  | 18.9 |
| 15°   | 21.7   | 21.7   | 21.7   | 21.4   | 21.4   | 21.1   | 20.8   | 20.4  | 20.1  | 19.5  | 16.2 |
| 17.5° | 23.5   | 23.5   | 23.2   | 23.2   | 22.6   | 22.0   | 21.7   | 20.8  | 20.1  | 19.2  | 14.4 |
| 20°   | 31.3   | 31.6   | 30.4   | 29.5   | 28.9   | 27.1   | 26.2   | 24.7  | 23.5  | 22.0  | 13.2 |
| 22.5° | 63.2   | 61.9   | 59.8   | 56.5   | 52.6   | 49.3   | 43.3   | 38.5  | 35.2  | 30.7  | 12.9 |
| 25°   | 129.9  | 128.7  | 123.0  | 118.2  | 106.2  | 96.8   | 83.9   | 73.4  | 62.6  | 52.0  | 13.2 |
| 27.5° | 246.9  | 238.8  | 237.3  | 215.3  | 198.5  | 174.4  | 149.5  | 128.4 | 109.2 | 87.8  | 14.1 |
| 30°   | 469.4  | 460.1  | 427.3  | 394.3  | 348.8  | 297.4  | 248.4  | 202.7 | 164.5 | 129.9 | 15.3 |
| 31°   | 595.7  | 604.8  | 566.3  | 499.8  | 432.7  | 366.9  | 299.8  | 241.8 | 192.5 | 149.5 | 15.9 |
| 32°   | 783.1  | 743.7  | 703.1  | 634.8  | 537.4  | 453.2  | 369.0  | 285.4 | 220.4 | 170.5 | 16.5 |
| 33°   | 960.2  | 937.1  | 875.1  | 790.0  | 673.0  | 554.8  | 445.7  | 336.8 | 254.7 | 196.1 | 16.8 |
| 34°   | 1149.1 | 1123.5 | 1073.3 | 951.2  | 822.8  | 667.9  | 522.4  | 396.1 | 295.6 | 221.0 | 17.1 |
| 35°   | 1346.0 | 1335.2 | 1238.4 | 1132.5 | 974.6  | 787.9  | 614.7  | 461.0 | 335.6 | 243.9 | 17.4 |
| 36°   | 1544.2 | 1509.3 | 1433.6 | 1279.0 | 1114.2 | 898.9  | 711.5  | 521.5 | 376.2 | 271.0 | 17.4 |
| 37°   | 1693.4 | 1685.6 | 1585.1 | 1434.5 | 1240.8 | 1017.4 | 795.1  | 588.5 | 417.1 | 294.1 | 17.4 |
| 38°   | 1857.9 | 1826.9 | 1725.0 | 1571.6 | 1359.9 | 1125.9 | 882.6  | 646.9 | 455.9 | 315.2 | 17.1 |
| 39°   | 1996.5 | 1950.5 | 1847.7 | 1696.1 | 1463.9 | 1208.3 | 952.1  | 703.4 | 490.2 | 332.6 | 16.8 |
| 40°   | 2087.3 | 2055.5 | 1948.1 | 1777.6 | 1558.4 | 1286.2 | 1022.5 | 750.0 | 515.7 | 345.8 | 16.2 |
| 41°   | 2187.5 | 2134.5 | 2028.4 | 1857.0 | 1626.9 | 1354.8 | 1066.7 | 780.7 | 535.6 | 354.6 | 15.6 |
| 42°   | 2247.3 | 2204.0 | 2078.0 | 1910.2 | 1675.9 | 1393.9 | 1102.8 | 804.1 | 547.6 | 359.1 | 14.4 |
| 43°   | 2303.3 | 2244.3 | 2121.6 | 1941.2 | 1708.4 | 1421.5 | 1119.3 | 815.0 | 550.3 | 359.1 | 12.9 |
| 44°   | 2295.7 | 2239.8 | 2112.6 | 1945.4 | 1715.6 | 1429.6 | 1126.2 | 815.3 | 546.1 | 354.6 | 11.4 |
| 45°   | 2239.5 | 2183.9 | 2069.3 | 1908.7 | 1689.8 | 1413.7 | 1112.4 | 803.2 | 534.4 | 346.7 | 10.2 |
| 46°   | 2136.3 | 2081.0 | 1993.2 | 1847.4 | 1641.7 | 1377.6 | 1080.2 | 777.1 | 514.8 | 334.1 | 9.0  |
| 47°   | 2024.2 | 1970.3 | 1880.4 | 1748.4 | 1559.6 | 1313.3 | 1033.6 | 740.4 | 487.5 | 315.8 | 8.1  |
| 48°   | 1861.5 | 1827.8 | 1737.6 | 1624.8 | 1445.6 | 1212.5 | 951.8  | 680.5 | 450.8 | 292.0 | 6.9  |
| 49°   | 1717.7 | 1682.3 | 1603.2 | 1482.0 | 1297.0 | 1095.2 | 854.1  | 607.8 | 403.0 | 265.5 | 6.0  |
| 50°   | 1580.3 | 1549.3 | 1476.3 | 1339.4 | 1162.9 | 953.6  | 722.0  | 516.0 | 342.8 | 232.8 | 5.1  |
| 51°   | 1445.9 | 1422.7 | 1348.1 | 1222.4 | 1043.2 | 844.7  | 625.5  | 429.7 | 283.3 | 193.1 | 4.8  |
| 52°   | 1310.9 | 1308.2 | 1227.3 | 1100.1 | 926.8  | 736.2  | 531.7  | 362.7 | 240.3 | 162.1 | 4.5  |
| 53°   | 1165.6 | 1148.2 | 1077.5 | 963.2  | 796.9  | 623.1  | 450.8  | 305.8 | 206.9 | 138.0 | 3.9  |
| 54°   | 1000.2 | 980.7  | 904.9  | 801.7  | 651.1  | 510.3  | 363.3  | 247.2 | 172.3 | 116.7 | 3.6  |
| 55°   | 816.2  | 782.8  | 727.8  | 621.9  | 508.5  | 389.4  | 280.6  | 195.8 | 137.7 | 97.1  | 3.0  |
| 56°   | 619.2  | 585.8  | 554.8  | 476.9  | 373.2  | 290.5  | 209.0  | 150.1 | 107.7 | 76.7  | 2.7  |
| 57°   | 430.6  | 428.8  | 378.0  | 318.2  | 249.6  | 197.9  | 143.1  | 105.9 | 76.1  | 59.5  | 2.1  |
| 58°   | 279.4  | 270.1  | 237.6  | 203.0  | 163.3  | 123.6  | 92.0   | 71.9  | 51.7  | 40.6  | 1.8  |
| 59°   | 195.8  | 177.1  | 159.7  | 135.3  | 102.8  | 77.9   | 59.2   | 46.0  | 35.8  | 28.3  | 1.2  |
| 60°   | 120.3  | 116.4  | 104.7  | 82.4   | 66.8   | 55.0   | 44.2   | 34.0  | 26.2  | 20.1  | 0.6  |
| 62.5° | 34.3   | 34.9   | 31.6   | 28.0   | 24.1   | 20.8   | 18.6   | 15.9  | 13.2  | 10.5  | 0.0  |
| 65°   | 7.8    | 7.5    | 8.1    | 7.5    | 6.9    | 6.9    | 6.0    | 5.4   | 4.8   | 4.5   | 0.0  |



TEST NUMBER: P1340439

CATALOG NUMBER: P3A09R209727DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 2.4 | 2.4  | 2.1 | 2.1  | 2.1 | 1.8   | 1.8 | 1.5   | 1.5 | 1.2   | 0.0 |
| 70°   | 0.9 | 0.9  | 0.9 | 0.9  | 0.9 | 0.6   | 0.6 | 0.6   | 0.3 | 0.3   | 0.0 |
| 72.5° | 0.9 | 0.9  | 0.9 | 0.6  | 0.6 | 0.6   | 0.6 | 0.6   | 0.3 | 0.3   | 0.3 |
| 75°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.6 | 0.3   | 0.3 | 0.3   | 0.3 |
| 77.5° | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.3   | 0.6 | 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 | 0.3   | 0.3 |
| 82.5° | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 |
| 85°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.0 | 0.0   | 0.3 | 0.3   | 0.3 | 0.0   | 0.3 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.3 |
| 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: P1340439

CATALOG NUMBER: P3A09R209727DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 22.3  | 22.3 | 22.3   | 22.3 | 22.3   | 22.3 |
| 2.5°  | 23.2  | 22.0 | 21.1   | 20.1 | 19.8   | 19.8 |
| 5°    | 22.6  | 20.8 | 18.9   | 18.0 | 17.4   | 17.4 |
| 7.5°  | 20.8  | 18.6 | 16.8   | 15.9 | 15.6   | 15.6 |
| 10°   | 18.6  | 16.2 | 14.4   | 13.8 | 13.8   | 13.5 |
| 12.5° | 16.2  | 13.8 | 12.6   | 12.3 | 12.3   | 12.3 |
| 15°   | 13.5  | 11.7 | 10.8   | 10.8 | 11.1   | 11.4 |
| 17.5° | 11.4  | 9.6  | 9.3    | 9.9  | 10.5   | 10.5 |
| 20°   | 9.6   | 8.4  | 8.4    | 9.0  | 9.6    | 9.9  |
| 22.5° | 8.1   | 7.2  | 7.5    | 8.4  | 9.3    | 9.6  |
| 25°   | 7.2   | 6.3  | 6.9    | 7.8  | 8.7    | 9.3  |
| 27.5° | 6.0   | 5.7  | 6.3    | 7.5  | 8.7    | 9.0  |
| 30°   | 5.1   | 5.1  | 6.0    | 7.2  | 8.4    | 8.7  |
| 31°   | 4.8   | 4.8  | 6.0    | 7.2  | 8.4    | 8.7  |
| 32°   | 4.5   | 4.8  | 5.7    | 7.2  | 8.4    | 8.7  |
| 33°   | 4.2   | 4.5  | 5.7    | 6.9  | 8.4    | 8.7  |
| 34°   | 3.9   | 4.5  | 5.7    | 6.9  | 8.4    | 8.7  |
| 35°   | 3.6   | 4.5  | 5.7    | 6.9  | 8.4    | 8.7  |
| 36°   | 3.3   | 4.2  | 5.4    | 6.9  | 8.4    | 8.7  |
| 37°   | 3.0   | 4.2  | 5.4    | 6.9  | 8.4    | 8.7  |
| 38°   | 2.7   | 3.9  | 5.4    | 6.9  | 8.4    | 8.7  |
| 39°   | 2.7   | 3.9  | 5.1    | 6.9  | 8.1    | 8.7  |
| 40°   | 2.4   | 3.6  | 5.1    | 6.9  | 8.1    | 8.7  |
| 41°   | 2.1   | 3.6  | 5.1    | 6.6  | 8.1    | 8.7  |
| 42°   | 1.8   | 3.3  | 4.8    | 6.6  | 8.1    | 8.7  |
| 43°   | 1.5   | 3.3  | 4.8    | 6.6  | 8.1    | 8.7  |
| 44°   | 1.5   | 3.0  | 4.8    | 6.6  | 8.1    | 8.7  |
| 45°   | 1.2   | 3.0  | 4.8    | 6.6  | 8.1    | 8.7  |
| 46°   | 0.9   | 3.0  | 4.8    | 6.6  | 8.1    | 8.7  |
| 47°   | 0.9   | 2.7  | 4.5    | 6.6  | 8.1    | 8.7  |
| 48°   | 0.6   | 2.7  | 4.5    | 6.6  | 8.1    | 8.7  |
| 49°   | 0.6   | 2.7  | 4.5    | 6.6  | 8.1    | 9.0  |
| 50°   | 0.6   | 2.7  | 4.5    | 6.3  | 8.1    | 9.0  |
| 51°   | 0.3   | 2.7  | 4.5    | 6.3  | 8.1    | 9.0  |
| 52°   | 0.3   | 2.7  | 4.2    | 6.3  | 8.4    | 9.0  |
| 53°   | 0.3   | 2.4  | 4.2    | 6.3  | 8.4    | 9.0  |
| 54°   | 0.3   | 2.4  | 4.2    | 6.3  | 8.4    | 8.7  |
| 55°   | 0.3   | 2.4  | 4.2    | 6.3  | 8.1    | 8.7  |
| 56°   | 0.3   | 2.1  | 4.2    | 6.3  | 8.1    | 8.7  |
| 57°   | 0.3   | 2.1  | 3.9    | 6.0  | 8.1    | 8.4  |
| 58°   | 0.3   | 2.1  | 3.9    | 6.0  | 8.1    | 8.4  |
| 59°   | 0.3   | 2.1  | 3.9    | 6.0  | 7.8    | 8.4  |
| 60°   | 0.6   | 1.8  | 3.6    | 5.7  | 7.8    | 8.4  |
| 62.5° | 0.6   | 1.8  | 3.6    | 5.7  | 7.5    | 8.1  |
| 65°   | 0.6   | 1.8  | 3.3    | 5.4  | 7.5    | 8.1  |



TEST NUMBER: P1340439

CATALOG NUMBER: P3A09R209727DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.6   | 1.5 | 3.0    | 5.1  | 7.2    | 7.8  |
| 70°   | 0.6   | 1.8 | 3.0    | 4.8  | 6.9    | 7.5  |
| 72.5° | 0.9   | 1.5 | 2.7    | 4.5  | 6.6    | 7.2  |
| 75°   | 0.9   | 1.5 | 2.7    | 4.2  | 6.3    | 6.6  |
| 77.5° | 1.2   | 1.5 | 2.4    | 3.6  | 5.7    | 6.0  |
| 80°   | 1.2   | 1.5 | 2.1    | 3.0  | 4.8    | 5.1  |
| 82.5° | 1.2   | 1.5 | 1.5    | 2.4  | 3.6    | 3.9  |
| 85°   | 0.9   | 1.2 | 1.2    | 1.5  | 2.4    | 2.7  |
| 87.5° | 0.9   | 1.2 | 0.9    | 0.6  | 1.2    | 1.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)