

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: P1340031

Luminaire Tested: P3A09R159835DE010 E3A451GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R159835DE010 E3A451GPH  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

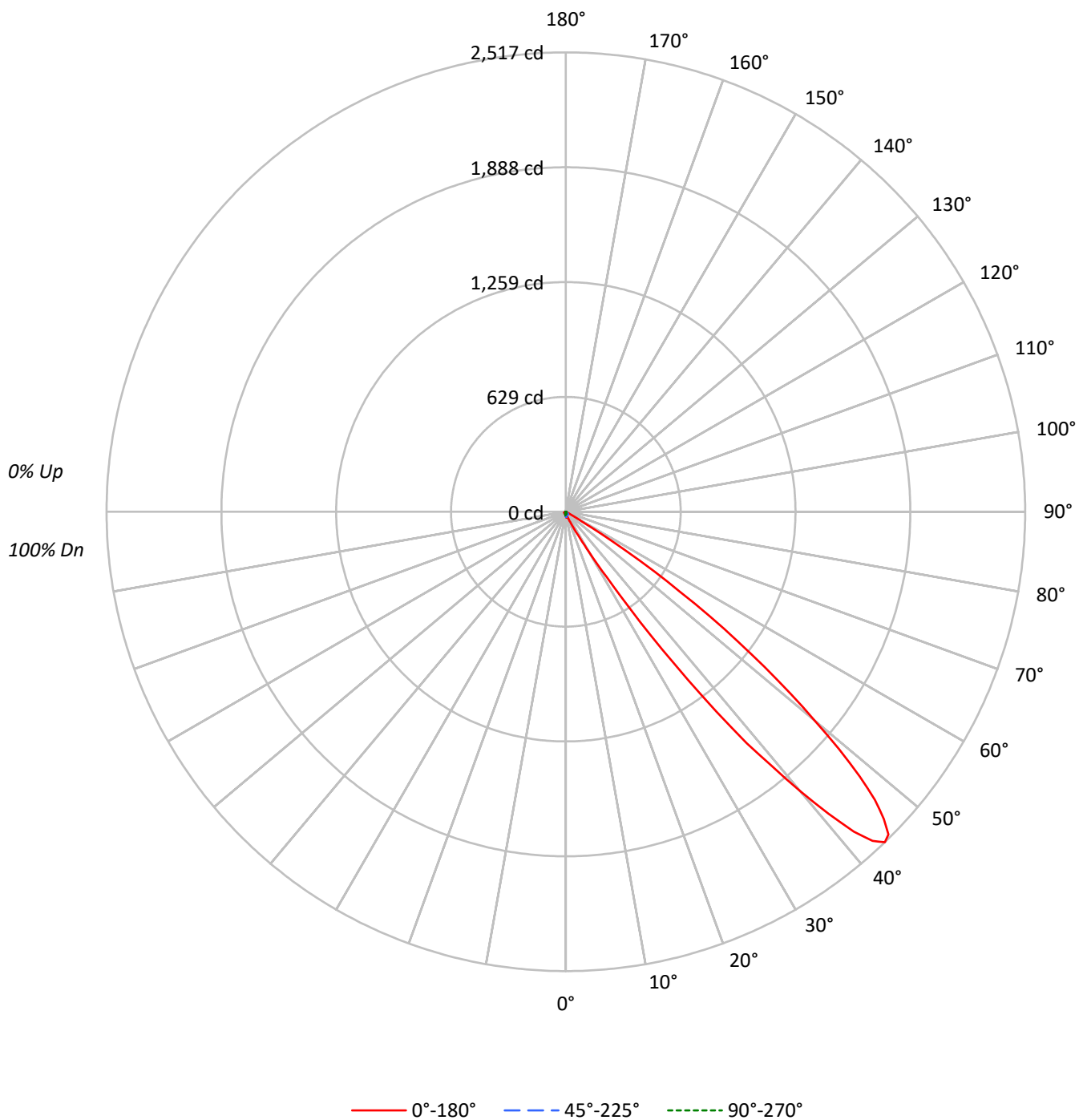
Lumens per Lamp: N/A  
Luminaire Lumens: 281.0 lumens  
Efficiency: N/A  
Efficacy: 25.5 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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: P1340031

CATALOG NUMBER: P3A09R159835DE010 E3A451GPH

### Luminous Intensity Polar Plot



TEST NUMBER: P1340031

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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  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 87  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 75  | 75  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 53  | 53  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 44  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  | 26  | 26  | 24  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 22  | 22  | 20  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  | 19  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 5460   | 5460 | 5460 | 5460 | 5460 |
| 5°  | 6780   | 6053 | 4931 | 4314 | 4248 |
| 10° | 6680   | 5188 | 3808 | 3362 | 3429 |
| 15° | 5539   | 3700 | 2724 | 2792 | 2997 |
| 20° | 9614   | 2940 | 2100 | 2427 | 2754 |
| 25° | 21413  | 3532 | 1694 | 2226 | 2565 |
| 30° | 64060  | 4330 | 1494 | 2203 | 2684 |
| 35° | 246598 | 4872 | 1338 | 2249 | 2838 |
| 40° | 572415 | 4237 | 1288 | 2319 | 3034 |
| 45° | 775305 | 3225 | 1116 | 2512 | 3287 |
| 50° | 607912 | 1910 | 1160 | 2661 | 3616 |
| 55° | 291775 | 841  | 1070 | 2906 | 3976 |
| 60° | 26665  | 132  | 965  | 3070 | 4429 |
| 65° | 2906   | 0    | 882  | 3217 | 4774 |
| 70° | 705    | 0    | 1090 | 3398 | 5193 |
| 75° | 678    | 254  | 1440 | 3813 | 5931 |
| 80° | 758    | 758  | 1768 | 3915 | 6314 |
| 85° | 755    | 755  | 2768 | 3522 | 7045 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 775305 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.1    | 0.8       |
| 10°-20°   | 4.4    | 1.6       |
| 20°-30°   | 10.6   | 3.8       |
| 30°-40°   | 58.1   | 20.7      |
| 40°-50°   | 140.7  | 50.1      |
| 50°-60°   | 56.2   | 20.0      |
| 60°-70°   | 4.9    | 1.7       |
| 70°-80°   | 2.7    | 1.0       |
| 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°    | 17.2   | 6.1       |
| 0°-40°    | 75.3   | 26.8      |
| 0°-60°    | 272.2  | 96.9      |
| 0°-90°    | 281.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 281.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 25   | 25  | 25  | 25   | 25   |      |
| 5°  | 31   | 28  | 22  | 20   | 19   | 3    |
| 15° | 24   | 16  | 12  | 12   | 13   | 8    |
| 25° | 88   | 15  | 7   | 9    | 11   | 53   |
| 35° | 921  | 18  | 5   | 8    | 11   | 651  |
| 45° | 2500 | 10  | 4   | 8    | 11   | 1764 |
| 55° | 763  | 2   | 3   | 8    | 10   | 711  |
| 65° | 6    | 0   | 2   | 6    | 9    | 14   |
| 75° | 1    | 0   | 2   | 4    | 7    | 1    |
| 85° | 0    | 0   | 1   | 1    | 3    | 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°    | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9   | 24.9  | 24.9  | 24.9  | 24.9  | 24.9 |
| 2.5°  | 28.0   | 28.0   | 28.3   | 28.0   | 28.0   | 28.0   | 28.0  | 27.7  | 27.7  | 27.7  | 26.9 |
| 5°    | 30.8   | 30.8   | 30.8   | 30.8   | 30.5   | 30.5   | 30.5  | 30.3  | 30.3  | 30.0  | 27.5 |
| 7.5°  | 31.9   | 31.9   | 31.7   | 31.7   | 31.4   | 31.4   | 31.1  | 30.8  | 30.5  | 30.3  | 26.3 |
| 10°   | 30.0   | 30.0   | 30.0   | 29.7   | 29.7   | 29.4   | 29.1  | 28.9  | 28.6  | 28.0  | 23.3 |
| 12.5° | 26.6   | 26.6   | 26.9   | 26.6   | 26.3   | 26.1   | 25.5  | 25.2  | 24.9  | 24.4  | 19.3 |
| 15°   | 24.4   | 24.4   | 24.4   | 24.1   | 23.8   | 23.3   | 23.0  | 22.4  | 22.1  | 21.3  | 16.3 |
| 17.5° | 31.1   | 31.1   | 30.8   | 30.3   | 29.1   | 28.3   | 26.9  | 25.8  | 24.4  | 22.7  | 14.0 |
| 20°   | 41.2   | 41.2   | 40.6   | 40.1   | 38.7   | 37.3   | 35.0  | 33.1  | 30.8  | 28.9  | 12.6 |
| 22.5° | 59.7   | 60.5   | 58.8   | 56.9   | 54.9   | 51.6   | 48.5  | 45.4  | 41.5  | 38.1  | 12.9 |
| 25°   | 88.5   | 89.4   | 88.5   | 84.1   | 80.4   | 75.9   | 70.0  | 63.9  | 57.2  | 51.0  | 14.6 |
| 27.5° | 143.5  | 144.0  | 142.6  | 131.7  | 125.8  | 114.0  | 103.7 | 93.6  | 82.4  | 71.2  | 16.0 |
| 30°   | 253.0  | 253.3  | 244.3  | 222.5  | 203.1  | 177.4  | 155.5 | 134.5 | 116.8 | 98.9  | 17.1 |
| 31°   | 333.1  | 325.3  | 306.2  | 279.9  | 249.1  | 214.3  | 184.4 | 157.2 | 130.8 | 111.5 | 17.4 |
| 32°   | 423.1  | 422.0  | 390.3  | 344.6  | 303.4  | 260.0  | 214.9 | 180.2 | 149.9 | 123.6 | 17.7 |
| 33°   | 542.2  | 542.7  | 492.8  | 439.0  | 371.5  | 313.2  | 254.1 | 206.5 | 170.1 | 137.9 | 18.2 |
| 34°   | 728.2  | 684.5  | 625.9  | 553.1  | 461.2  | 373.5  | 296.7 | 237.0 | 188.3 | 151.6 | 18.2 |
| 35°   | 921.2  | 877.3  | 812.8  | 702.4  | 576.3  | 453.6  | 347.4 | 269.8 | 210.1 | 166.4 | 18.2 |
| 36°   | 1137.5 | 1100.3 | 1002.8 | 861.8  | 701.0  | 529.3  | 401.2 | 307.6 | 231.7 | 179.9 | 17.9 |
| 37°   | 1371.2 | 1316.6 | 1208.4 | 1054.6 | 839.4  | 635.7  | 466.8 | 345.2 | 253.3 | 194.4 | 17.4 |
| 38°   | 1608.5 | 1559.2 | 1422.8 | 1236.4 | 1004.7 | 748.1  | 532.3 | 381.3 | 273.2 | 205.4 | 16.5 |
| 39°   | 1788.4 | 1761.5 | 1626.2 | 1418.0 | 1136.7 | 854.6  | 599.9 | 420.0 | 294.2 | 216.3 | 15.7 |
| 40°   | 1999.7 | 1956.2 | 1827.9 | 1570.4 | 1292.8 | 963.0  | 666.0 | 454.2 | 311.6 | 225.0 | 14.8 |
| 41°   | 2192.4 | 2137.5 | 1975.6 | 1726.8 | 1417.7 | 1060.5 | 728.8 | 489.5 | 325.6 | 230.0 | 14.3 |
| 42°   | 2357.7 | 2293.9 | 2124.6 | 1860.7 | 1522.2 | 1138.4 | 778.9 | 514.7 | 338.7 | 234.2 | 13.4 |
| 43°   | 2464.8 | 2409.6 | 2243.1 | 1961.3 | 1611.6 | 1209.8 | 825.7 | 541.0 | 346.9 | 237.0 | 12.3 |
| 44°   | 2516.9 | 2461.1 | 2300.0 | 2024.3 | 1666.5 | 1252.7 | 856.0 | 559.2 | 355.8 | 240.7 | 11.5 |
| 45°   | 2500.1 | 2443.5 | 2287.7 | 2025.4 | 1683.6 | 1268.1 | 868.8 | 567.4 | 360.6 | 244.0 | 10.4 |
| 46°   | 2423.0 | 2383.2 | 2226.3 | 1972.8 | 1651.1 | 1251.6 | 861.6 | 561.2 | 358.9 | 244.0 | 9.2  |
| 47°   | 2314.9 | 2269.5 | 2120.1 | 1882.3 | 1572.4 | 1209.0 | 832.1 | 542.4 | 348.5 | 238.4 | 8.1  |
| 48°   | 2167.5 | 2128.8 | 1971.9 | 1738.5 | 1451.6 | 1116.3 | 765.7 | 511.9 | 332.3 | 227.5 | 7.0  |
| 49°   | 1982.6 | 1928.8 | 1782.8 | 1554.7 | 1294.2 | 984.6  | 678.6 | 460.3 | 306.2 | 212.1 | 6.2  |
| 50°   | 1782.0 | 1715.6 | 1602.9 | 1370.7 | 1131.4 | 844.2  | 564.0 | 389.2 | 269.5 | 191.9 | 5.6  |
| 51°   | 1585.6 | 1518.0 | 1410.7 | 1213.2 | 957.7  | 700.5  | 455.0 | 310.7 | 221.9 | 164.2 | 4.8  |
| 52°   | 1381.9 | 1325.3 | 1205.1 | 1049.8 | 819.8  | 567.7  | 379.1 | 262.8 | 184.4 | 137.9 | 3.9  |
| 53°   | 1179.0 | 1140.3 | 1026.0 | 868.8  | 658.7  | 463.7  | 309.6 | 225.0 | 160.8 | 118.0 | 3.1  |
| 54°   | 975.9  | 933.6  | 846.7  | 706.6  | 530.9  | 365.9  | 262.5 | 188.3 | 139.5 | 102.8 | 2.8  |
| 55°   | 763.2  | 741.4  | 661.2  | 538.8  | 402.3  | 292.0  | 212.9 | 161.9 | 116.8 | 86.0  | 2.2  |
| 56°   | 587.8  | 563.2  | 490.0  | 390.9  | 299.0  | 228.6  | 172.3 | 132.2 | 98.9  | 72.0  | 1.7  |
| 57°   | 385.0  | 359.8  | 311.3  | 272.9  | 217.7  | 166.7  | 131.7 | 104.2 | 80.4  | 59.7  | 1.4  |
| 58°   | 227.5  | 204.5  | 197.0  | 168.1  | 145.1  | 113.2  | 97.2  | 77.6  | 59.4  | 47.1  | 0.8  |
| 59°   | 104.5  | 106.2  | 94.4   | 88.5   | 80.4   | 72.0   | 59.1  | 51.8  | 40.6  | 33.9  | 0.6  |
| 60°   | 60.8   | 57.4   | 56.0   | 50.2   | 44.5   | 39.5   | 35.6  | 31.4  | 25.5  | 21.9  | 0.3  |
| 62.5° | 20.7   | 19.9   | 20.5   | 18.5   | 17.4   | 16.8   | 15.4  | 13.2  | 10.9  | 9.0   | 0.0  |
| 65°   | 5.6    | 5.6    | 5.3    | 5.0    | 4.8    | 4.5    | 4.2   | 3.6   | 3.4   | 2.8   | 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° | 2.0 | 2.0  | 1.7 | 1.7  | 1.4 | 1.4   | 1.1 | 1.1   | 0.8 | 0.8   | 0.0 |
| 70°   | 1.1 | 1.1  | 1.1 | 0.8  | 0.8 | 0.8   | 0.6 | 0.6   | 0.6 | 0.3   | 0.0 |
| 72.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.6 | 0.6   | 0.6 | 0.3   | 0.3 |
| 75°   | 0.8 | 0.8  | 0.8 | 0.6  | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.3 |
| 77.5° | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 |
| 80°   | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.6 | 0.6   | 0.6 | 0.3   | 0.6 |
| 82.5° | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 0.6 |
| 85°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.3 | 0.3   | 0.3 | 0.3   | 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 |

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 24.9  | 24.9 | 24.9   | 24.9 | 24.9   | 24.9 |
| 2.5°  | 25.8  | 24.7 | 23.3   | 22.4 | 22.1   | 21.9 |
| 5°    | 24.7  | 22.4 | 20.7   | 19.6 | 19.3   | 19.3 |
| 7.5°  | 22.1  | 19.6 | 17.9   | 17.4 | 17.1   | 17.1 |
| 10°   | 19.3  | 17.1 | 15.7   | 15.1 | 15.4   | 15.4 |
| 12.5° | 16.3  | 14.3 | 13.7   | 13.7 | 14.0   | 14.3 |
| 15°   | 13.2  | 12.0 | 12.0   | 12.3 | 12.9   | 13.2 |
| 17.5° | 10.9  | 10.4 | 10.6   | 11.2 | 11.8   | 12.3 |
| 20°   | 9.0   | 9.0  | 9.5    | 10.4 | 11.2   | 11.8 |
| 22.5° | 7.6   | 7.8  | 8.7    | 9.5  | 10.6   | 11.2 |
| 25°   | 6.4   | 7.0  | 7.8    | 9.2  | 10.4   | 10.6 |
| 27.5° | 5.6   | 6.4  | 7.6    | 9.0  | 10.1   | 10.6 |
| 30°   | 4.8   | 5.9  | 7.3    | 8.7  | 10.1   | 10.6 |
| 31°   | 4.5   | 5.6  | 7.0    | 8.7  | 10.1   | 10.6 |
| 32°   | 4.2   | 5.6  | 7.0    | 8.7  | 10.1   | 10.6 |
| 33°   | 3.9   | 5.3  | 7.0    | 8.4  | 10.1   | 10.6 |
| 34°   | 3.6   | 5.3  | 7.0    | 8.7  | 10.1   | 10.6 |
| 35°   | 3.4   | 5.0  | 6.7    | 8.4  | 9.8    | 10.6 |
| 36°   | 3.1   | 5.0  | 6.7    | 8.4  | 10.1   | 10.6 |
| 37°   | 2.8   | 5.0  | 6.7    | 8.4  | 9.8    | 10.6 |
| 38°   | 2.8   | 4.8  | 6.4    | 8.4  | 9.8    | 10.6 |
| 39°   | 2.5   | 4.5  | 6.4    | 8.4  | 9.8    | 10.6 |
| 40°   | 2.2   | 4.5  | 6.2    | 8.1  | 9.8    | 10.6 |
| 41°   | 2.0   | 4.2  | 6.2    | 8.1  | 9.8    | 10.6 |
| 42°   | 1.7   | 4.2  | 6.2    | 8.1  | 9.8    | 10.6 |
| 43°   | 1.4   | 3.9  | 5.9    | 8.1  | 9.8    | 10.6 |
| 44°   | 1.4   | 3.9  | 5.9    | 8.1  | 9.8    | 10.6 |
| 45°   | 1.1   | 3.6  | 5.6    | 8.1  | 9.8    | 10.6 |
| 46°   | 1.1   | 3.6  | 5.6    | 7.8  | 9.8    | 10.6 |
| 47°   | 0.8   | 3.6  | 5.6    | 7.8  | 9.8    | 10.6 |
| 48°   | 0.8   | 3.4  | 5.6    | 7.8  | 9.8    | 10.6 |
| 49°   | 0.6   | 3.4  | 5.6    | 7.8  | 9.8    | 10.6 |
| 50°   | 0.6   | 3.4  | 5.3    | 7.8  | 9.8    | 10.6 |
| 51°   | 0.6   | 3.4  | 5.3    | 7.8  | 9.8    | 10.6 |
| 52°   | 0.6   | 3.1  | 5.3    | 7.8  | 9.8    | 10.6 |
| 53°   | 0.6   | 3.1  | 5.3    | 7.8  | 9.8    | 10.6 |
| 54°   | 0.6   | 3.1  | 5.0    | 7.8  | 9.8    | 10.6 |
| 55°   | 0.6   | 2.8  | 5.0    | 7.6  | 9.8    | 10.4 |
| 56°   | 0.6   | 2.8  | 5.0    | 7.6  | 9.8    | 10.4 |
| 57°   | 0.6   | 2.8  | 4.8    | 7.6  | 9.8    | 10.4 |
| 58°   | 0.6   | 2.5  | 4.8    | 7.3  | 9.5    | 10.4 |
| 59°   | 0.6   | 2.5  | 4.5    | 7.3  | 9.5    | 10.1 |
| 60°   | 0.6   | 2.2  | 4.5    | 7.0  | 9.2    | 10.1 |
| 62.5° | 0.6   | 2.0  | 3.9    | 6.7  | 9.0    | 9.5  |
| 65°   | 0.6   | 1.7  | 3.6    | 6.2  | 8.7    | 9.2  |



TEST NUMBER: P1340031

CATALOG NUMBER: P3A09R159835DE010 E3A451GPH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.6   | 1.7 | 3.4    | 5.9  | 8.1    | 9.0  |
| 70°   | 0.6   | 1.7 | 3.1    | 5.3  | 7.8    | 8.1  |
| 72.5° | 0.8   | 1.7 | 2.8    | 5.0  | 7.3    | 7.6  |
| 75°   | 1.1   | 1.7 | 2.5    | 4.5  | 6.7    | 7.0  |
| 77.5° | 1.1   | 1.7 | 2.2    | 3.9  | 5.9    | 6.2  |
| 80°   | 1.1   | 1.4 | 2.0    | 3.1  | 4.8    | 5.0  |
| 82.5° | 1.1   | 1.4 | 1.4    | 2.5  | 3.6    | 3.9  |
| 85°   | 0.8   | 1.1 | 1.1    | 1.4  | 2.5    | 2.8  |
| 87.5° | 0.8   | 1.1 | 0.6    | 0.8  | 1.1    | 1.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)