

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: P1340488

Luminaire Tested: P3A09R209740DE010 E3A451WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340488  
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: P3A09R209740DE010 E3A451WMH  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A451WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

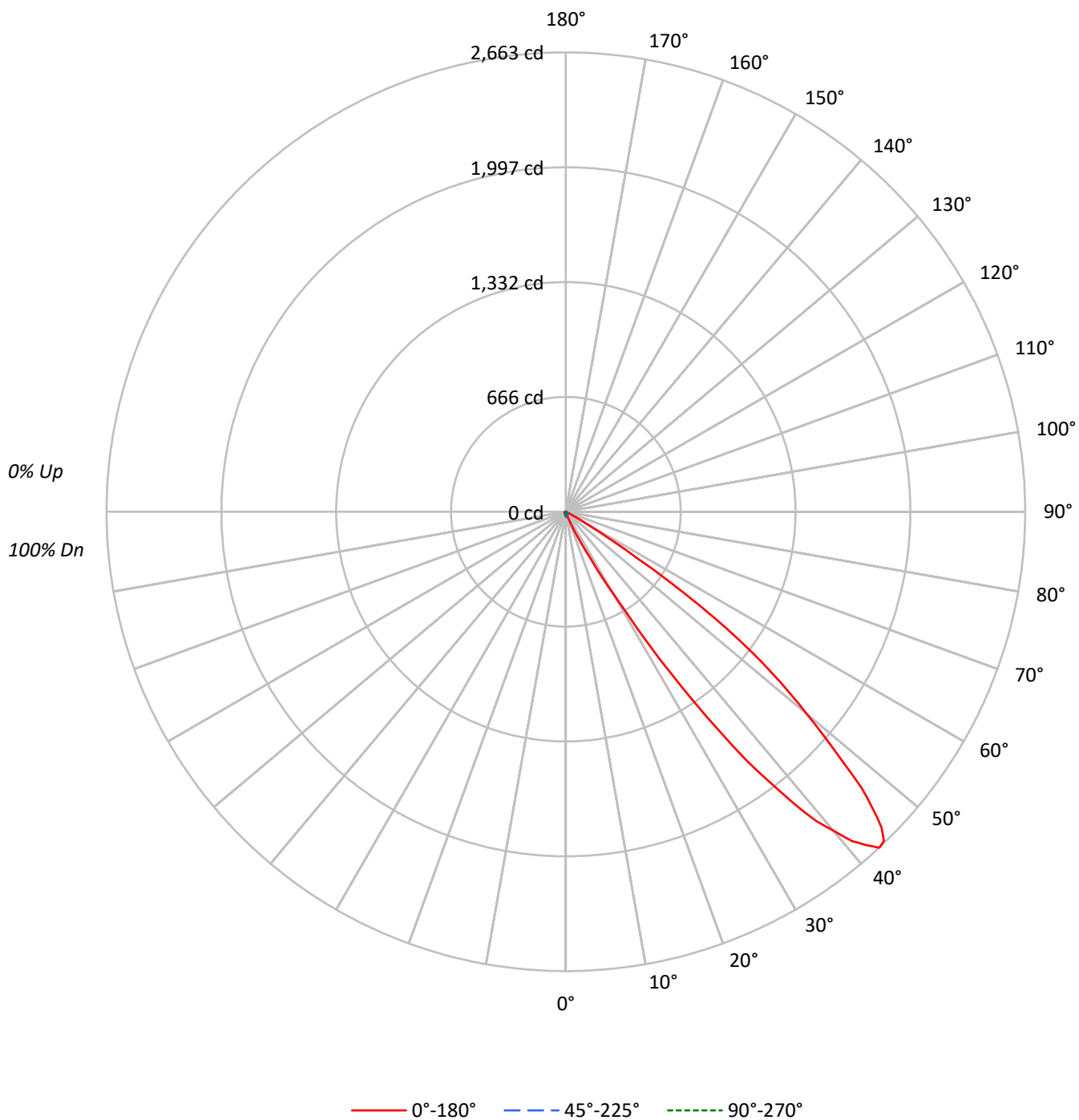
Lumens per Lamp: N/A  
Luminaire Lumens: 370.0 lumens  
Efficiency: N/A  
Efficacy: 33.3 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1340488

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### Luminous Intensity Polar Plot



TEST NUMBER: P1340488

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 5636   | 5636 | 5636 | 5636 | 5636 |
| 5°  | 6582   | 6119 | 5283 | 4600 | 4446 |
| 10° | 6502   | 5567 | 4186 | 3563 | 3474 |
| 15° | 5675   | 4268 | 3087 | 2838 | 2997 |
| 20° | 8447   | 3570 | 2264 | 2427 | 2684 |
| 25° | 36341  | 3702 | 1766 | 2178 | 2613 |
| 30° | 137439 | 4482 | 1494 | 2102 | 2557 |
| 35° | 416636 | 5407 | 1392 | 2142 | 2704 |
| 40° | 690866 | 5382 | 1202 | 2290 | 2891 |
| 45° | 802998 | 3659 | 1085 | 2357 | 3132 |
| 50° | 623331 | 2013 | 1058 | 2490 | 3548 |
| 55° | 360780 | 1338 | 1070 | 2791 | 3861 |
| 60° | 61004  | 307  | 921  | 2895 | 4254 |
| 65° | 4670   | 0    | 1090 | 3269 | 4877 |
| 70° | 641    | 0    | 1346 | 3590 | 5578 |
| 75° | 593    | 254  | 1440 | 4151 | 6439 |
| 80° | 379    | 379  | 2147 | 4420 | 7450 |
| 85° | 755    | 755  | 3522 | 4277 | 7799 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 802998 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.2    | 0.6       |
| 10°-20°   | 4.6    | 1.3       |
| 20°-30°   | 14.8   | 4.0       |
| 30°-40°   | 94.4   | 25.5      |
| 40°-50°   | 172.7  | 46.7      |
| 50°-60°   | 71.0   | 19.2      |
| 60°-70°   | 6.0    | 1.6       |
| 70°-80°   | 3.0    | 0.8       |
| 80°-90°   | 1.4    | 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°    | 21.6   | 5.8       |
| 0°-40°    | 116.0  | 31.3      |
| 0°-60°    | 359.6  | 97.2      |
| 0°-90°    | 370.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 370.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 26   | 26  | 26  | 26   | 26   |      |
| 5°  | 30   | 28  | 24  | 21   | 20   | 3    |
| 15° | 25   | 19  | 14  | 12   | 13   | 8    |
| 25° | 150  | 15  | 7   | 9    | 11   | 99   |
| 35° | 1556 | 20  | 5   | 8    | 10   | 985  |
| 45° | 2589 | 12  | 4   | 8    | 10   | 1859 |
| 55° | 944  | 4   | 3   | 7    | 10   | 825  |
| 65° | 9    | 0   | 2   | 6    | 9    | 29   |
| 75° | 1    | 0   | 2   | 5    | 8    | 1    |
| 85° | 0    | 0   | 1   | 2    | 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°    | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7  | 25.7  | 25.7  | 25.7 |
| 2.5°  | 28.2   | 28.2   | 28.2   | 27.8   | 27.8   | 28.2   | 27.8   | 27.8  | 27.8  | 27.8  | 27.5 |
| 5°    | 29.9   | 29.9   | 29.9   | 29.9   | 29.9   | 29.9   | 29.9   | 29.6  | 29.6  | 29.2  | 27.8 |
| 7.5°  | 30.6   | 30.6   | 30.6   | 30.6   | 30.3   | 30.3   | 30.3   | 30.3  | 29.9  | 29.6  | 27.1 |
| 10°   | 29.2   | 29.2   | 29.2   | 28.9   | 28.9   | 28.9   | 28.5   | 28.5  | 28.2  | 27.8  | 25.0 |
| 12.5° | 26.4   | 26.4   | 26.4   | 26.4   | 26.1   | 26.1   | 25.7   | 25.7  | 25.4  | 25.0  | 21.9 |
| 15°   | 25.0   | 25.0   | 25.0   | 24.7   | 24.7   | 24.3   | 24.0   | 23.6  | 23.3  | 22.6  | 18.8 |
| 17.5° | 27.1   | 27.1   | 26.8   | 26.8   | 26.1   | 25.4   | 25.0   | 24.0  | 23.3  | 22.3  | 16.7 |
| 20°   | 36.2   | 36.5   | 35.1   | 34.1   | 33.4   | 31.3   | 30.3   | 28.5  | 27.1  | 25.4  | 15.3 |
| 22.5° | 73.0   | 71.6   | 69.2   | 65.4   | 60.8   | 57.0   | 50.1   | 44.5  | 40.7  | 35.5  | 15.0 |
| 25°   | 150.2  | 148.8  | 142.2  | 136.7  | 122.7  | 112.0  | 97.0   | 84.8  | 72.3  | 60.2  | 15.3 |
| 27.5° | 285.5  | 276.1  | 274.3  | 249.0  | 229.5  | 201.7  | 172.8  | 148.5 | 126.2 | 101.5 | 16.3 |
| 30°   | 542.8  | 532.0  | 494.1  | 455.9  | 403.3  | 343.9  | 287.2  | 234.4 | 190.2 | 150.2 | 17.7 |
| 31°   | 688.8  | 699.3  | 654.7  | 577.9  | 500.4  | 424.2  | 346.7  | 279.6 | 222.5 | 172.8 | 18.4 |
| 32°   | 905.4  | 859.9  | 813.0  | 734.0  | 621.4  | 524.0  | 426.6  | 330.0 | 254.9 | 197.2 | 19.1 |
| 33°   | 1110.2 | 1083.5 | 1011.8 | 913.4  | 778.2  | 641.5  | 515.3  | 389.4 | 294.5 | 226.7 | 19.5 |
| 34°   | 1328.6 | 1299.1 | 1241.0 | 1099.8 | 951.3  | 772.3  | 604.0  | 457.9 | 341.8 | 255.6 | 19.8 |
| 35°   | 1556.4 | 1543.8 | 1431.9 | 1309.5 | 1126.9 | 911.0  | 710.7  | 533.0 | 388.0 | 282.0 | 20.2 |
| 36°   | 1785.5 | 1745.2 | 1657.5 | 1478.8 | 1288.3 | 1039.3 | 822.7  | 602.9 | 435.0 | 313.3 | 20.2 |
| 37°   | 1958.0 | 1948.9 | 1832.8 | 1658.6 | 1434.7 | 1176.3 | 919.4  | 680.5 | 482.3 | 340.1 | 20.2 |
| 38°   | 2148.2 | 2112.4 | 1994.5 | 1817.1 | 1572.4 | 1301.8 | 1020.5 | 747.9 | 527.1 | 364.4 | 19.8 |
| 39°   | 2308.5 | 2255.3 | 2136.3 | 1961.1 | 1692.7 | 1397.1 | 1100.9 | 813.3 | 566.8 | 384.6 | 19.5 |
| 40°   | 2413.5 | 2376.6 | 2252.5 | 2055.3 | 1801.8 | 1487.2 | 1182.2 | 867.2 | 596.3 | 399.9 | 18.8 |
| 41°   | 2529.3 | 2468.1 | 2345.3 | 2147.1 | 1881.1 | 1566.4 | 1233.3 | 902.7 | 619.3 | 410.0 | 18.1 |
| 42°   | 2598.5 | 2548.4 | 2402.7 | 2208.7 | 1937.8 | 1611.7 | 1275.1 | 929.8 | 633.2 | 415.2 | 16.7 |
| 43°   | 2663.1 | 2595.0 | 2453.1 | 2244.5 | 1975.4 | 1643.6 | 1294.2 | 942.3 | 636.3 | 415.2 | 15.0 |
| 44°   | 2654.4 | 2589.8 | 2442.7 | 2249.4 | 1983.7 | 1653.0 | 1302.2 | 942.7 | 631.4 | 410.0 | 13.2 |
| 45°   | 2589.4 | 2525.1 | 2392.6 | 2206.9 | 1953.8 | 1634.6 | 1286.2 | 928.7 | 617.9 | 400.9 | 11.8 |
| 46°   | 2470.2 | 2406.2 | 2304.6 | 2136.0 | 1898.2 | 1592.9 | 1249.0 | 898.5 | 595.3 | 386.3 | 10.4 |
| 47°   | 2340.5 | 2278.2 | 2174.3 | 2021.6 | 1803.2 | 1518.5 | 1195.1 | 856.1 | 563.6 | 365.1 | 9.4  |
| 48°   | 2152.3 | 2113.4 | 2009.1 | 1878.7 | 1671.5 | 1402.0 | 1100.5 | 786.9 | 521.2 | 337.6 | 8.0  |
| 49°   | 1986.1 | 1945.1 | 1853.7 | 1713.5 | 1499.7 | 1266.4 | 987.5  | 702.7 | 465.9 | 307.0 | 7.0  |
| 50°   | 1827.2 | 1791.4 | 1706.9 | 1548.7 | 1344.6 | 1102.6 | 834.9  | 596.7 | 396.4 | 269.1 | 5.9  |
| 51°   | 1671.8 | 1645.0 | 1558.8 | 1413.5 | 1206.2 | 976.7  | 723.2  | 496.9 | 327.5 | 223.2 | 5.6  |
| 52°   | 1515.7 | 1512.6 | 1419.0 | 1271.9 | 1071.7 | 851.2  | 614.8  | 419.3 | 277.8 | 187.4 | 5.2  |
| 53°   | 1347.7 | 1327.6 | 1245.9 | 1113.7 | 921.4  | 720.5  | 521.2  | 353.6 | 239.2 | 159.6 | 4.5  |
| 54°   | 1156.5 | 1133.9 | 1046.3 | 927.0  | 752.8  | 590.1  | 420.0  | 285.8 | 199.2 | 134.9 | 4.2  |
| 55°   | 943.7  | 905.1  | 841.5  | 719.1  | 588.0  | 450.3  | 324.4  | 226.4 | 159.3 | 112.3 | 3.5  |
| 56°   | 715.9  | 677.3  | 641.5  | 551.5  | 431.5  | 335.9  | 241.7  | 173.5 | 124.5 | 88.7  | 3.1  |
| 57°   | 497.9  | 495.8  | 437.1  | 367.9  | 288.6  | 228.8  | 165.5  | 122.4 | 88.0  | 68.8  | 2.4  |
| 58°   | 323.0  | 312.2  | 274.7  | 234.7  | 188.8  | 142.9  | 106.4  | 83.1  | 59.8  | 46.9  | 2.1  |
| 59°   | 226.4  | 204.8  | 184.6  | 156.5  | 118.9  | 90.1   | 68.5   | 53.2  | 41.4  | 32.7  | 1.4  |
| 60°   | 139.1  | 134.6  | 121.0  | 95.3   | 77.2   | 63.6   | 51.1   | 39.3  | 30.3  | 23.3  | 0.7  |
| 62.5° | 39.6   | 40.3   | 36.5   | 32.3   | 27.8   | 24.0   | 21.6   | 18.4  | 15.3  | 12.2  | 0.0  |
| 65°   | 9.0    | 8.7    | 9.4    | 8.7    | 8.0    | 8.0    | 7.0    | 6.3   | 5.6   | 5.2   | 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° | 2.8 | 2.8  | 2.4 | 2.4  | 2.4 | 2.1   | 2.1 | 1.7   | 1.7 | 1.4   | 0.0 |
| 70°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 0.7   | 0.7 | 0.7   | 0.3 | 0.3   | 0.0 |
| 72.5° | 1.0 | 1.0  | 1.0 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.3 | 0.3   | 0.3 |
| 75°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.3   | 0.3 | 0.3   | 0.3 |
| 77.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.3   | 0.7 | 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 |

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 25.7  | 25.7 | 25.7   | 25.7 | 25.7   | 25.7 |
| 2.5°  | 26.8  | 25.4 | 24.3   | 23.3 | 22.9   | 22.9 |
| 5°    | 26.1  | 24.0 | 21.9   | 20.9 | 20.2   | 20.2 |
| 7.5°  | 24.0  | 21.6 | 19.5   | 18.4 | 18.1   | 18.1 |
| 10°   | 21.6  | 18.8 | 16.7   | 16.0 | 16.0   | 15.6 |
| 12.5° | 18.8  | 16.0 | 14.6   | 14.3 | 14.3   | 14.3 |
| 15°   | 15.6  | 13.6 | 12.5   | 12.5 | 12.9   | 13.2 |
| 17.5° | 13.2  | 11.1 | 10.8   | 11.5 | 12.2   | 12.2 |
| 20°   | 11.1  | 9.7  | 9.7    | 10.4 | 11.1   | 11.5 |
| 22.5° | 9.4   | 8.3  | 8.7    | 9.7  | 10.8   | 11.1 |
| 25°   | 8.3   | 7.3  | 8.0    | 9.0  | 10.1   | 10.8 |
| 27.5° | 7.0   | 6.6  | 7.3    | 8.7  | 10.1   | 10.4 |
| 30°   | 5.9   | 5.9  | 7.0    | 8.3  | 9.7    | 10.1 |
| 31°   | 5.6   | 5.6  | 7.0    | 8.3  | 9.7    | 10.1 |
| 32°   | 5.2   | 5.6  | 6.6    | 8.3  | 9.7    | 10.1 |
| 33°   | 4.9   | 5.2  | 6.6    | 8.0  | 9.7    | 10.1 |
| 34°   | 4.5   | 5.2  | 6.6    | 8.0  | 9.7    | 10.1 |
| 35°   | 4.2   | 5.2  | 6.6    | 8.0  | 9.7    | 10.1 |
| 36°   | 3.8   | 4.9  | 6.3    | 8.0  | 9.7    | 10.1 |
| 37°   | 3.5   | 4.9  | 6.3    | 8.0  | 9.7    | 10.1 |
| 38°   | 3.1   | 4.5  | 6.3    | 8.0  | 9.7    | 10.1 |
| 39°   | 3.1   | 4.5  | 5.9    | 8.0  | 9.4    | 10.1 |
| 40°   | 2.8   | 4.2  | 5.9    | 8.0  | 9.4    | 10.1 |
| 41°   | 2.4   | 4.2  | 5.9    | 7.6  | 9.4    | 10.1 |
| 42°   | 2.1   | 3.8  | 5.6    | 7.6  | 9.4    | 10.1 |
| 43°   | 1.7   | 3.8  | 5.6    | 7.6  | 9.4    | 10.1 |
| 44°   | 1.7   | 3.5  | 5.6    | 7.6  | 9.4    | 10.1 |
| 45°   | 1.4   | 3.5  | 5.6    | 7.6  | 9.4    | 10.1 |
| 46°   | 1.0   | 3.5  | 5.6    | 7.6  | 9.4    | 10.1 |
| 47°   | 1.0   | 3.1  | 5.2    | 7.6  | 9.4    | 10.1 |
| 48°   | 0.7   | 3.1  | 5.2    | 7.6  | 9.4    | 10.1 |
| 49°   | 0.7   | 3.1  | 5.2    | 7.6  | 9.4    | 10.4 |
| 50°   | 0.7   | 3.1  | 5.2    | 7.3  | 9.4    | 10.4 |
| 51°   | 0.3   | 3.1  | 5.2    | 7.3  | 9.4    | 10.4 |
| 52°   | 0.3   | 3.1  | 4.9    | 7.3  | 9.7    | 10.4 |
| 53°   | 0.3   | 2.8  | 4.9    | 7.3  | 9.7    | 10.4 |
| 54°   | 0.3   | 2.8  | 4.9    | 7.3  | 9.7    | 10.1 |
| 55°   | 0.3   | 2.8  | 4.9    | 7.3  | 9.4    | 10.1 |
| 56°   | 0.3   | 2.4  | 4.9    | 7.3  | 9.4    | 10.1 |
| 57°   | 0.3   | 2.4  | 4.5    | 7.0  | 9.4    | 9.7  |
| 58°   | 0.3   | 2.4  | 4.5    | 7.0  | 9.4    | 9.7  |
| 59°   | 0.3   | 2.4  | 4.5    | 7.0  | 9.0    | 9.7  |
| 60°   | 0.7   | 2.1  | 4.2    | 6.6  | 9.0    | 9.7  |
| 62.5° | 0.7   | 2.1  | 4.2    | 6.6  | 8.7    | 9.4  |
| 65°   | 0.7   | 2.1  | 3.8    | 6.3  | 8.7    | 9.4  |



TEST NUMBER: P1340488

CATALOG NUMBER: P3A09R209740DE010 E3A451WMH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.7   | 1.7 | 3.5    | 5.9  | 8.3    | 9.0  |
| 70°   | 0.7   | 2.1 | 3.5    | 5.6  | 8.0    | 8.7  |
| 72.5° | 1.0   | 1.7 | 3.1    | 5.2  | 7.6    | 8.3  |
| 75°   | 1.0   | 1.7 | 3.1    | 4.9  | 7.3    | 7.6  |
| 77.5° | 1.4   | 1.7 | 2.8    | 4.2  | 6.6    | 7.0  |
| 80°   | 1.4   | 1.7 | 2.4    | 3.5  | 5.6    | 5.9  |
| 82.5° | 1.4   | 1.7 | 1.7    | 2.8  | 4.2    | 4.5  |
| 85°   | 1.0   | 1.4 | 1.4    | 1.7  | 2.8    | 3.1  |
| 87.5° | 1.0   | 1.4 | 1.0    | 0.7  | 1.4    | 1.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)