

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: P1336394

Luminaire Tested: P3A05R159727DE010 E3A451WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336394  
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: P3A05R159727DE010 E3A451WMH  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3A451WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

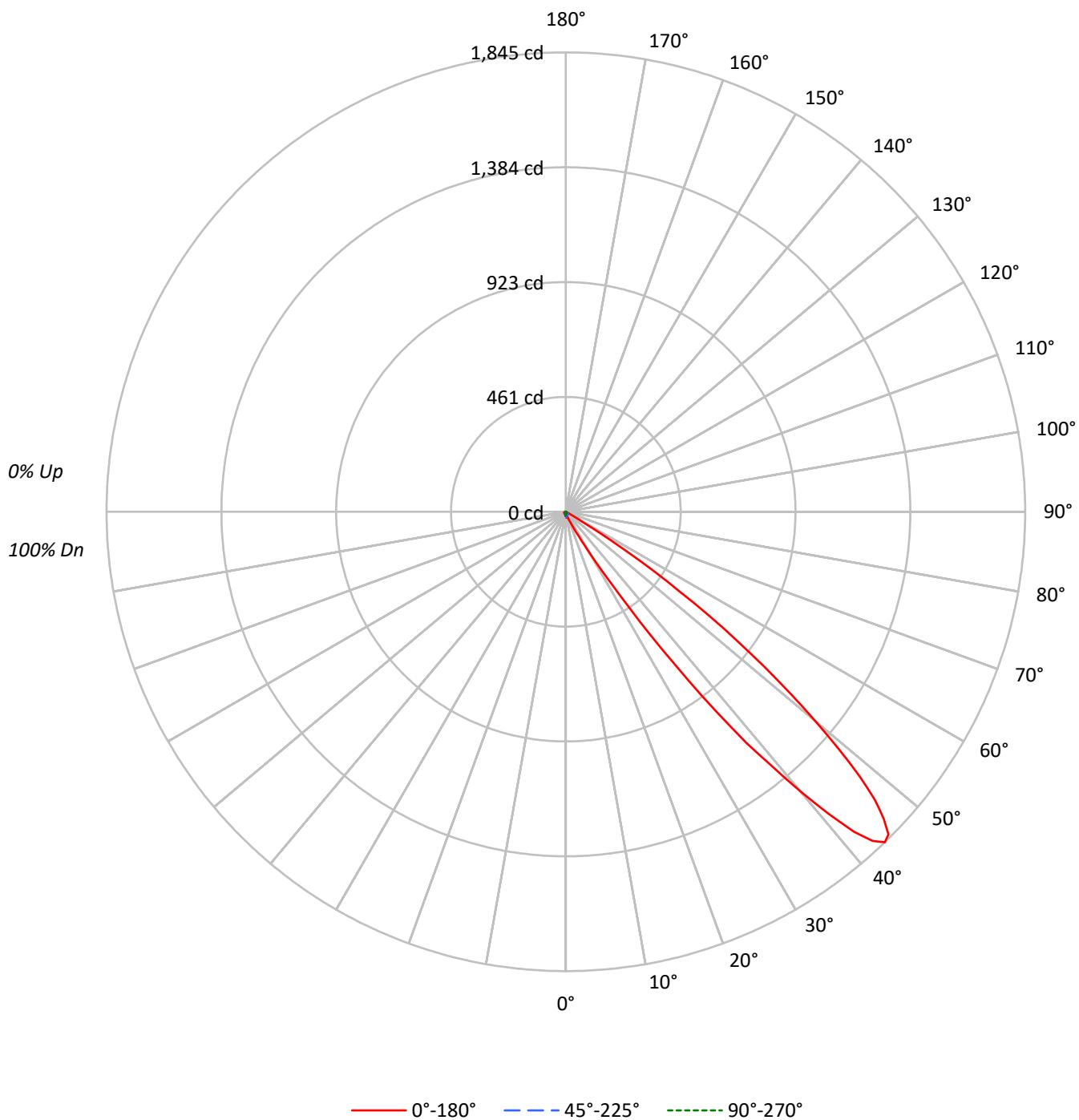
Lumens per Lamp: N/A  
Luminaire Lumens: 206.0 lumens  
Efficiency: N/A  
Efficacy: 28.6 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

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

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 4013   | 4013 | 4013 | 4013 | 4013 |
| 5°  | 4975   | 4424 | 3610 | 3170 | 3126 |
| 10° | 4899   | 3785 | 2783 | 2472 | 2516 |
| 15° | 4064   | 2701 | 1998 | 2043 | 2202 |
| 20° | 7047   | 2147 | 1540 | 1773 | 2007 |
| 25° | 15703  | 2589 | 1234 | 1645 | 1887 |
| 30° | 46969  | 3165 | 1089 | 1621 | 1975 |
| 35° | 180799 | 3587 | 990  | 1660 | 2088 |
| 40° | 419615 | 3120 | 945  | 1718 | 2233 |
| 45° | 568369 | 2357 | 837  | 1861 | 2419 |
| 50° | 445666 | 1399 | 853  | 1979 | 2661 |
| 55° | 213899 | 612  | 803  | 2103 | 2906 |
| 60° | 19560  | 88   | 702  | 2237 | 3245 |
| 65° | 2127   | 0    | 623  | 2335 | 3528 |
| 70° | 513    | 0    | 769  | 2500 | 3847 |
| 75° | 508    | 169  | 1017 | 2796 | 4321 |
| 80° | 505    | 505  | 1263 | 2904 | 4672 |
| 85° | 503    | 503  | 2013 | 2516 | 5284 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 568369 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.8       |
| 10°-20°   | 3.2    | 1.6       |
| 20°-30°   | 7.8    | 3.8       |
| 30°-40°   | 42.6   | 20.7      |
| 40°-50°   | 103.2  | 50.1      |
| 50°-60°   | 41.2   | 20.0      |
| 60°-70°   | 3.6    | 1.7       |
| 70°-80°   | 2.0    | 1.0       |
| 80°-90°   | 0.9    | 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°    | 12.6   | 6.1       |
| 0°-40°    | 55.2   | 26.8      |
| 0°-60°    | 199.6  | 96.9      |
| 0°-90°    | 206.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 206.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 23   | 20  | 16  | 14   | 14   | 2    |
| 15° | 18   | 12  | 9   | 9    | 10   | 6    |
| 25° | 65   | 11  | 5   | 7    | 8    | 39   |
| 35° | 675  | 13  | 4   | 6    | 8    | 477  |
| 45° | 1833 | 8   | 3   | 6    | 8    | 1293 |
| 55° | 560  | 2   | 2   | 6    | 8    | 521  |
| 65° | 4    | 0   | 1   | 4    | 7    | 11   |
| 75° | 1    | 0   | 1   | 3    | 5    | 1    |
| 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°    | 18.3   | 18.3   | 18.3   | 18.3   | 18.3   | 18.3  | 18.3  | 18.3  | 18.3  | 18.3  | 18.3 |
| 2.5°  | 20.5   | 20.5   | 20.7   | 20.5   | 20.5   | 20.5  | 20.5  | 20.3  | 20.3  | 20.3  | 19.7 |
| 5°    | 22.6   | 22.6   | 22.6   | 22.6   | 22.4   | 22.4  | 22.4  | 22.2  | 22.2  | 22.0  | 20.1 |
| 7.5°  | 23.4   | 23.4   | 23.2   | 23.2   | 23.0   | 23.0  | 22.8  | 22.6  | 22.4  | 22.2  | 19.3 |
| 10°   | 22.0   | 22.0   | 22.0   | 21.8   | 21.8   | 21.6  | 21.4  | 21.2  | 21.0  | 20.5  | 17.0 |
| 12.5° | 19.5   | 19.5   | 19.7   | 19.5   | 19.3   | 19.1  | 18.7  | 18.5  | 18.3  | 17.9  | 14.2 |
| 15°   | 17.9   | 17.9   | 17.9   | 17.7   | 17.5   | 17.0  | 16.8  | 16.4  | 16.2  | 15.6  | 11.9 |
| 17.5° | 22.8   | 22.8   | 22.6   | 22.2   | 21.4   | 20.7  | 19.7  | 18.9  | 17.9  | 16.6  | 10.3 |
| 20°   | 30.2   | 30.2   | 29.8   | 29.4   | 28.3   | 27.3  | 25.7  | 24.2  | 22.6  | 21.2  | 9.2  |
| 22.5° | 43.8   | 44.4   | 43.1   | 41.7   | 40.3   | 37.8  | 35.5  | 33.3  | 30.4  | 27.9  | 9.4  |
| 25°   | 64.9   | 65.5   | 64.9   | 61.6   | 59.0   | 55.7  | 51.4  | 46.8  | 41.9  | 37.4  | 10.7 |
| 27.5° | 105.2  | 105.6  | 104.5  | 96.5   | 92.2   | 83.6  | 76.0  | 68.6  | 60.4  | 52.2  | 11.7 |
| 30°   | 185.5  | 185.7  | 179.1  | 163.1  | 148.9  | 130.0 | 114.0 | 98.6  | 85.7  | 72.5  | 12.5 |
| 31°   | 244.2  | 238.5  | 224.5  | 205.2  | 182.6  | 157.1 | 135.2 | 115.2 | 95.9  | 81.7  | 12.7 |
| 32°   | 310.2  | 309.3  | 286.1  | 252.6  | 222.4  | 190.6 | 157.5 | 132.1 | 109.9 | 90.6  | 12.9 |
| 33°   | 397.5  | 397.9  | 361.3  | 321.9  | 272.4  | 229.6 | 186.3 | 151.4 | 124.7 | 101.1 | 13.4 |
| 34°   | 533.8  | 501.8  | 458.9  | 405.5  | 338.1  | 273.8 | 217.5 | 173.8 | 138.0 | 111.1 | 13.4 |
| 35°   | 675.4  | 643.1  | 595.9  | 514.9  | 422.5  | 332.5 | 254.7 | 197.8 | 154.1 | 122.0 | 13.4 |
| 36°   | 833.9  | 806.6  | 735.1  | 631.8  | 513.9  | 388.0 | 294.1 | 225.5 | 169.9 | 131.9 | 13.1 |
| 37°   | 1005.2 | 965.2  | 885.9  | 773.1  | 615.4  | 466.1 | 342.2 | 253.1 | 185.7 | 142.5 | 12.7 |
| 38°   | 1179.2 | 1143.1 | 1043.0 | 906.4  | 736.6  | 548.4 | 390.3 | 279.6 | 200.3 | 150.6 | 12.1 |
| 39°   | 1311.1 | 1291.4 | 1192.1 | 1039.5 | 833.3  | 626.5 | 439.8 | 307.9 | 215.7 | 158.6 | 11.5 |
| 40°   | 1465.9 | 1434.1 | 1340.0 | 1151.3 | 947.7  | 706.0 | 488.2 | 333.0 | 228.4 | 164.9 | 10.9 |
| 41°   | 1607.3 | 1567.0 | 1448.3 | 1265.9 | 1039.3 | 777.4 | 534.2 | 358.8 | 238.7 | 168.6 | 10.5 |
| 42°   | 1728.5 | 1681.6 | 1557.6 | 1364.1 | 1115.9 | 834.5 | 571.0 | 377.3 | 248.3 | 171.7 | 9.9  |
| 43°   | 1806.9 | 1766.5 | 1644.4 | 1437.8 | 1181.5 | 886.9 | 605.3 | 396.6 | 254.3 | 173.8 | 9.0  |
| 44°   | 1845.1 | 1804.2 | 1686.1 | 1484.0 | 1221.7 | 918.3 | 627.5 | 410.0 | 260.9 | 176.4 | 8.4  |
| 45°   | 1832.8 | 1791.3 | 1677.1 | 1484.8 | 1234.3 | 929.6 | 636.9 | 415.9 | 264.4 | 178.9 | 7.6  |
| 46°   | 1776.3 | 1747.1 | 1632.1 | 1446.2 | 1210.4 | 917.5 | 631.6 | 411.4 | 263.1 | 178.9 | 6.8  |
| 47°   | 1697.0 | 1663.8 | 1554.3 | 1379.9 | 1152.7 | 886.3 | 610.0 | 397.7 | 255.5 | 174.8 | 6.0  |
| 48°   | 1589.0 | 1560.6 | 1445.6 | 1274.5 | 1064.2 | 818.3 | 561.4 | 375.3 | 243.6 | 166.8 | 5.1  |
| 49°   | 1453.4 | 1414.0 | 1307.0 | 1139.8 | 948.7  | 721.8 | 497.5 | 337.5 | 224.5 | 155.5 | 4.5  |
| 50°   | 1306.4 | 1257.7 | 1175.1 | 1004.8 | 829.4  | 618.9 | 413.5 | 285.3 | 197.6 | 140.7 | 4.1  |
| 51°   | 1162.4 | 1112.9 | 1034.2 | 889.4  | 702.1  | 513.5 | 333.6 | 227.8 | 162.7 | 120.4 | 3.5  |
| 52°   | 1013.0 | 971.5  | 883.4  | 769.6  | 601.0  | 416.1 | 277.9 | 192.7 | 135.2 | 101.1 | 2.9  |
| 53°   | 864.3  | 836.0  | 752.2  | 636.9  | 482.9  | 339.9 | 227.0 | 164.9 | 117.9 | 86.5  | 2.3  |
| 54°   | 715.4  | 684.4  | 620.7  | 518.0  | 389.2  | 268.3 | 192.5 | 138.0 | 102.3 | 75.4  | 2.1  |
| 55°   | 559.5  | 543.5  | 484.7  | 395.0  | 295.0  | 214.0 | 156.1 | 118.7 | 85.7  | 63.1  | 1.6  |
| 56°   | 430.9  | 412.9  | 359.2  | 286.5  | 219.2  | 167.6 | 126.3 | 96.9  | 72.5  | 52.8  | 1.2  |
| 57°   | 282.2  | 263.7  | 228.2  | 200.1  | 159.6  | 122.2 | 96.5  | 76.4  | 59.0  | 43.8  | 1.0  |
| 58°   | 166.8  | 149.9  | 144.4  | 123.2  | 106.4  | 83.0  | 71.3  | 56.9  | 43.5  | 34.5  | 0.6  |
| 59°   | 76.6   | 77.8   | 69.2   | 64.9   | 59.0   | 52.8  | 43.3  | 38.0  | 29.8  | 24.9  | 0.4  |
| 60°   | 44.6   | 42.1   | 41.1   | 36.8   | 32.7   | 29.0  | 26.1  | 23.0  | 18.7  | 16.0  | 0.2  |
| 62.5° | 15.2   | 14.6   | 15.0   | 13.6   | 12.7   | 12.3  | 11.3  | 9.7   | 8.0   | 6.6   | 0.0  |
| 65°   | 4.1    | 4.1    | 3.9    | 3.7    | 3.5    | 3.3   | 3.1   | 2.7   | 2.5   | 2.1   | 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° | 1.4 | 1.4  | 1.2 | 1.2  | 1.0 | 1.0   | 0.8 | 0.8   | 0.6 | 0.6   | 0.0 |
| 70°   | 0.8 | 0.8  | 0.8 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.2   | 0.0 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 |
| 75°   | 0.6 | 0.6  | 0.6 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.2   | 0.4 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.4 |
| 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°    | 18.3  | 18.3 | 18.3   | 18.3 | 18.3   | 18.3 |
| 2.5°  | 18.9  | 18.1 | 17.0   | 16.4 | 16.2   | 16.0 |
| 5°    | 18.1  | 16.4 | 15.2   | 14.4 | 14.2   | 14.2 |
| 7.5°  | 16.2  | 14.4 | 13.1   | 12.7 | 12.5   | 12.5 |
| 10°   | 14.2  | 12.5 | 11.5   | 11.1 | 11.3   | 11.3 |
| 12.5° | 11.9  | 10.5 | 10.1   | 10.1 | 10.3   | 10.5 |
| 15°   | 9.7   | 8.8  | 8.8    | 9.0  | 9.4    | 9.7  |
| 17.5° | 8.0   | 7.6  | 7.8    | 8.2  | 8.6    | 9.0  |
| 20°   | 6.6   | 6.6  | 7.0    | 7.6  | 8.2    | 8.6  |
| 22.5° | 5.5   | 5.8  | 6.4    | 7.0  | 7.8    | 8.2  |
| 25°   | 4.7   | 5.1  | 5.8    | 6.8  | 7.6    | 7.8  |
| 27.5° | 4.1   | 4.7  | 5.5    | 6.6  | 7.4    | 7.8  |
| 30°   | 3.5   | 4.3  | 5.3    | 6.4  | 7.4    | 7.8  |
| 31°   | 3.3   | 4.1  | 5.1    | 6.4  | 7.4    | 7.8  |
| 32°   | 3.1   | 4.1  | 5.1    | 6.4  | 7.4    | 7.8  |
| 33°   | 2.9   | 3.9  | 5.1    | 6.2  | 7.4    | 7.8  |
| 34°   | 2.7   | 3.9  | 5.1    | 6.4  | 7.4    | 7.8  |
| 35°   | 2.5   | 3.7  | 4.9    | 6.2  | 7.2    | 7.8  |
| 36°   | 2.3   | 3.7  | 4.9    | 6.2  | 7.4    | 7.8  |
| 37°   | 2.1   | 3.7  | 4.9    | 6.2  | 7.2    | 7.8  |
| 38°   | 2.1   | 3.5  | 4.7    | 6.2  | 7.2    | 7.8  |
| 39°   | 1.8   | 3.3  | 4.7    | 6.2  | 7.2    | 7.8  |
| 40°   | 1.6   | 3.3  | 4.5    | 6.0  | 7.2    | 7.8  |
| 41°   | 1.4   | 3.1  | 4.5    | 6.0  | 7.2    | 7.8  |
| 42°   | 1.2   | 3.1  | 4.5    | 6.0  | 7.2    | 7.8  |
| 43°   | 1.0   | 2.9  | 4.3    | 6.0  | 7.2    | 7.8  |
| 44°   | 1.0   | 2.9  | 4.3    | 6.0  | 7.2    | 7.8  |
| 45°   | 0.8   | 2.7  | 4.1    | 6.0  | 7.2    | 7.8  |
| 46°   | 0.8   | 2.7  | 4.1    | 5.8  | 7.2    | 7.8  |
| 47°   | 0.6   | 2.7  | 4.1    | 5.8  | 7.2    | 7.8  |
| 48°   | 0.6   | 2.5  | 4.1    | 5.8  | 7.2    | 7.8  |
| 49°   | 0.4   | 2.5  | 4.1    | 5.8  | 7.2    | 7.8  |
| 50°   | 0.4   | 2.5  | 3.9    | 5.8  | 7.2    | 7.8  |
| 51°   | 0.4   | 2.5  | 3.9    | 5.8  | 7.2    | 7.8  |
| 52°   | 0.4   | 2.3  | 3.9    | 5.8  | 7.2    | 7.8  |
| 53°   | 0.4   | 2.3  | 3.9    | 5.8  | 7.2    | 7.8  |
| 54°   | 0.4   | 2.3  | 3.7    | 5.8  | 7.2    | 7.8  |
| 55°   | 0.4   | 2.1  | 3.7    | 5.5  | 7.2    | 7.6  |
| 56°   | 0.4   | 2.1  | 3.7    | 5.5  | 7.2    | 7.6  |
| 57°   | 0.4   | 2.1  | 3.5    | 5.5  | 7.2    | 7.6  |
| 58°   | 0.4   | 1.8  | 3.5    | 5.3  | 7.0    | 7.6  |
| 59°   | 0.4   | 1.8  | 3.3    | 5.3  | 7.0    | 7.4  |
| 60°   | 0.4   | 1.6  | 3.3    | 5.1  | 6.8    | 7.4  |
| 62.5° | 0.4   | 1.4  | 2.9    | 4.9  | 6.6    | 7.0  |
| 65°   | 0.4   | 1.2  | 2.7    | 4.5  | 6.4    | 6.8  |





TEST NUMBER: P1336394

CATALOG NUMBER: P3A05R159727DE010 E3A451WMH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.2 | 2.5    | 4.3  | 6.0    | 6.6  |
| 70°   | 0.4   | 1.2 | 2.3    | 3.9  | 5.8    | 6.0  |
| 72.5° | 0.6   | 1.2 | 2.1    | 3.7  | 5.3    | 5.5  |
| 75°   | 0.8   | 1.2 | 1.8    | 3.3  | 4.9    | 5.1  |
| 77.5° | 0.8   | 1.2 | 1.6    | 2.9  | 4.3    | 4.5  |
| 80°   | 0.8   | 1.0 | 1.4    | 2.3  | 3.5    | 3.7  |
| 82.5° | 0.8   | 1.0 | 1.0    | 1.8  | 2.7    | 2.9  |
| 85°   | 0.6   | 0.8 | 0.8    | 1.0  | 1.8    | 2.1  |
| 87.5° | 0.6   | 0.8 | 0.4    | 0.6  | 0.8    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)