

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: P1336961

Luminaire Tested: P3A05R209827DE010 E3CA451MMS

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336961  
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: P3A05R209827DE010 E3CA451MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3CA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

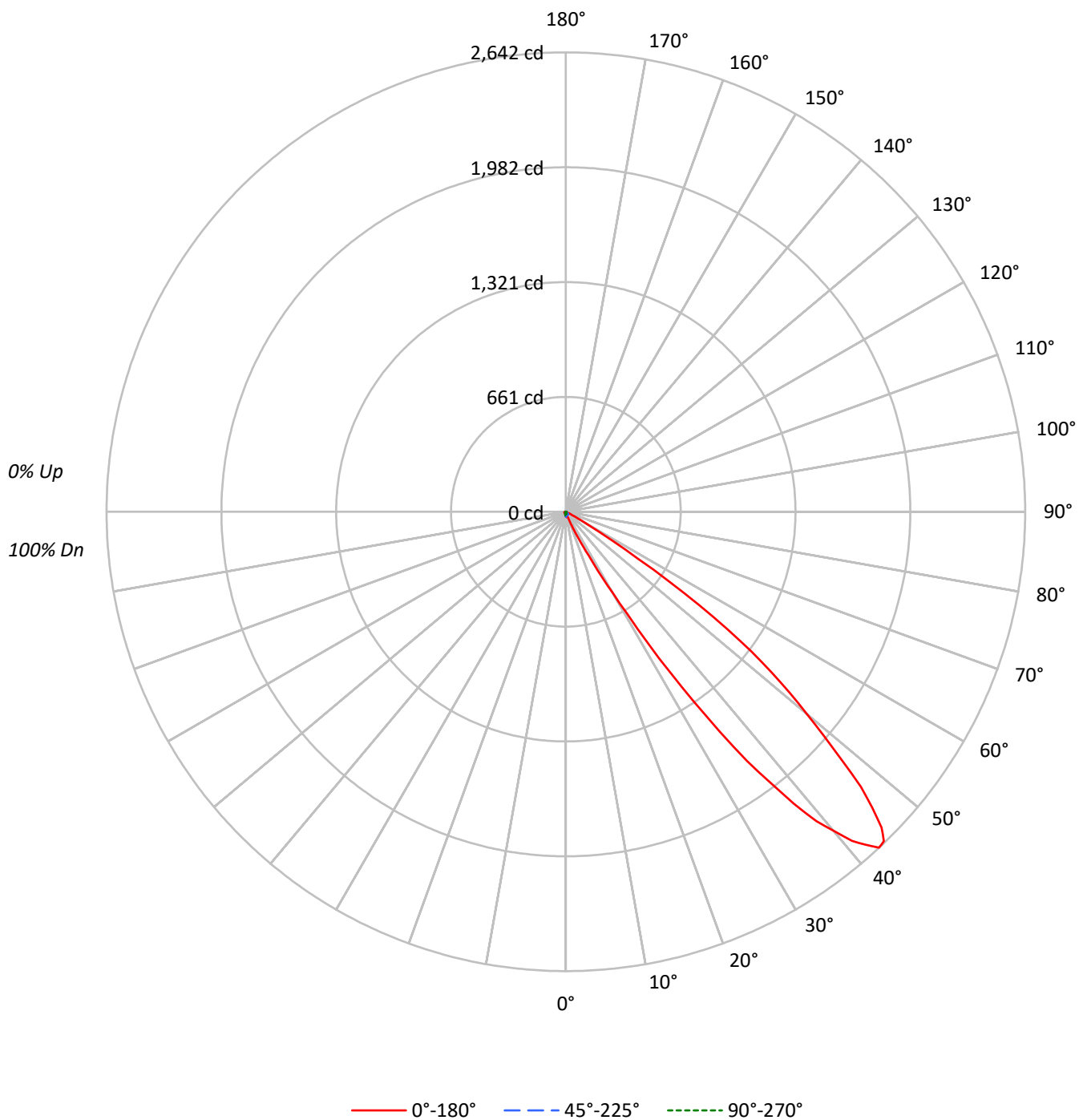
Lumens per Lamp: N/A  
Luminaire Lumens: 367.0 lumens  
Efficiency: N/A  
Efficacy: 51.0 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 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°  | 5592   | 5592 | 5592 | 5592 | 5592 |
| 5°  | 6538   | 6075 | 5239 | 4556 | 4402 |
| 10° | 6457   | 5522 | 4142 | 3540 | 3451 |
| 15° | 5630   | 4222 | 3065 | 2815 | 2974 |
| 20° | 8377   | 3547 | 2264 | 2404 | 2660 |
| 25° | 36050  | 3678 | 1742 | 2178 | 2589 |
| 30° | 136325 | 4456 | 1494 | 2102 | 2532 |
| 35° | 413237 | 5354 | 1392 | 2115 | 2677 |
| 40° | 685255 | 5324 | 1174 | 2261 | 2863 |
| 45° | 796486 | 3628 | 1054 | 2357 | 3101 |
| 50° | 618282 | 2013 | 1058 | 2456 | 3514 |
| 55° | 357837 | 1300 | 1070 | 2753 | 3823 |
| 60° | 60521  | 307  | 921  | 2895 | 4254 |
| 65° | 4670   | 0    | 1090 | 3217 | 4825 |
| 70° | 641    | 0    | 1346 | 3526 | 5514 |
| 75° | 593    | 254  | 1440 | 4067 | 6439 |
| 80° | 379    | 379  | 2147 | 4293 | 7450 |
| 85° | 755    | 755  | 3522 | 4277 | 7799 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 796486 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°   | 14.7   | 4.0       |
| 30°-40°   | 93.6   | 25.5      |
| 40°-50°   | 171.3  | 46.7      |
| 50°-60°   | 70.4   | 19.2      |
| 60°-70°   | 5.9    | 1.6       |
| 70°-80°   | 2.9    | 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°    | 21.4   | 5.8       |
| 0°-40°    | 115.0  | 31.3      |
| 0°-60°    | 356.7  | 97.2      |
| 0°-90°    | 367.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 367.0  | 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° | 149  | 15  | 7   | 9    | 11   | 98   |
| 35° | 1544 | 20  | 5   | 8    | 10   | 977  |
| 45° | 2568 | 12  | 3   | 8    | 10   | 1844 |
| 55° | 936  | 3   | 3   | 7    | 10   | 818  |
| 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°    | 25.5   | 25.5   | 25.5   | 25.5   | 25.5   | 25.5   | 25.5   | 25.5  | 25.5  | 25.5  | 25.5 |
| 2.5°  | 27.9   | 27.9   | 27.9   | 27.6   | 27.6   | 27.9   | 27.6   | 27.6  | 27.6  | 27.6  | 27.2 |
| 5°    | 29.7   | 29.7   | 29.7   | 29.7   | 29.7   | 29.7   | 29.7   | 29.3  | 29.3  | 29.0  | 27.6 |
| 7.5°  | 30.4   | 30.4   | 30.4   | 30.4   | 30.0   | 30.0   | 30.0   | 30.0  | 29.7  | 29.3  | 26.9 |
| 10°   | 29.0   | 29.0   | 29.0   | 28.6   | 28.6   | 28.6   | 28.3   | 28.3  | 27.9  | 27.6  | 24.8 |
| 12.5° | 26.2   | 26.2   | 26.2   | 26.2   | 25.9   | 25.9   | 25.5   | 25.5  | 25.2  | 24.8  | 21.7 |
| 15°   | 24.8   | 24.8   | 24.8   | 24.5   | 24.5   | 24.1   | 23.8   | 23.5  | 23.1  | 22.4  | 18.6 |
| 17.5° | 26.9   | 26.9   | 26.6   | 26.6   | 25.9   | 25.2   | 24.8   | 23.8  | 23.1  | 22.1  | 16.6 |
| 20°   | 35.9   | 36.2   | 34.8   | 33.8   | 33.1   | 31.0   | 30.0   | 28.3  | 26.9  | 25.2  | 15.2 |
| 22.5° | 72.4   | 71.0   | 68.6   | 64.8   | 60.4   | 56.6   | 49.7   | 44.1  | 40.4  | 35.2  | 14.8 |
| 25°   | 149.0  | 147.6  | 141.1  | 135.5  | 121.7  | 111.1  | 96.2   | 84.2  | 71.7  | 59.7  | 15.2 |
| 27.5° | 283.2  | 273.8  | 272.1  | 246.9  | 227.6  | 200.0  | 171.4  | 147.3 | 125.2 | 100.7 | 16.2 |
| 30°   | 538.4  | 527.7  | 490.1  | 452.2  | 400.1  | 341.1  | 284.9  | 232.5 | 188.7 | 149.0 | 17.6 |
| 31°   | 683.2  | 693.6  | 649.4  | 573.2  | 496.3  | 420.8  | 343.9  | 277.3 | 220.7 | 171.4 | 18.3 |
| 32°   | 898.1  | 852.9  | 806.4  | 728.1  | 616.3  | 519.8  | 423.2  | 327.3 | 252.8 | 195.6 | 19.0 |
| 33°   | 1101.2 | 1074.7 | 1003.6 | 906.0  | 771.9  | 636.3  | 511.1  | 386.3 | 292.1 | 224.9 | 19.3 |
| 34°   | 1317.8 | 1288.5 | 1230.9 | 1090.9 | 943.6  | 766.0  | 599.1  | 454.2 | 339.0 | 253.5 | 19.7 |
| 35°   | 1543.7 | 1531.3 | 1420.3 | 1298.9 | 1117.8 | 903.6  | 705.0  | 528.7 | 384.9 | 279.7 | 20.0 |
| 36°   | 1771.0 | 1731.0 | 1644.1 | 1466.8 | 1277.8 | 1030.9 | 816.0  | 598.0 | 431.5 | 310.7 | 20.0 |
| 37°   | 1942.1 | 1933.1 | 1817.9 | 1645.1 | 1423.0 | 1166.8 | 911.9  | 675.0 | 478.4 | 337.3 | 20.0 |
| 38°   | 2130.8 | 2095.2 | 1978.3 | 1802.4 | 1559.6 | 1291.3 | 1012.3 | 741.9 | 522.9 | 361.4 | 19.7 |
| 39°   | 2289.8 | 2237.0 | 2119.0 | 1945.2 | 1678.9 | 1385.8 | 1091.9 | 806.7 | 562.2 | 381.5 | 19.3 |
| 40°   | 2393.9 | 2357.3 | 2234.2 | 2038.7 | 1787.2 | 1475.1 | 1172.6 | 860.2 | 591.5 | 396.6 | 18.6 |
| 41°   | 2508.8 | 2448.1 | 2326.3 | 2129.7 | 1865.9 | 1553.7 | 1223.3 | 895.3 | 614.3 | 406.6 | 17.9 |
| 42°   | 2577.4 | 2527.7 | 2383.2 | 2190.8 | 1922.1 | 1598.6 | 1264.7 | 922.2 | 628.1 | 411.8 | 16.6 |
| 43°   | 2641.5 | 2573.9 | 2433.2 | 2226.3 | 1959.3 | 1630.3 | 1283.7 | 934.7 | 631.2 | 411.8 | 14.8 |
| 44°   | 2632.9 | 2568.8 | 2422.9 | 2231.1 | 1967.6 | 1639.6 | 1291.6 | 935.0 | 626.3 | 406.6 | 13.1 |
| 45°   | 2568.4 | 2504.6 | 2373.2 | 2189.0 | 1938.0 | 1621.3 | 1275.8 | 921.2 | 612.9 | 397.7 | 11.7 |
| 46°   | 2450.1 | 2386.7 | 2286.0 | 2118.7 | 1882.8 | 1580.0 | 1238.9 | 891.2 | 590.5 | 383.2 | 10.3 |
| 47°   | 2321.5 | 2259.7 | 2156.6 | 2005.2 | 1788.6 | 1506.2 | 1185.4 | 849.1 | 559.1 | 362.1 | 9.3  |
| 48°   | 2134.9 | 2096.3 | 1992.8 | 1863.5 | 1657.9 | 1390.6 | 1091.6 | 780.5 | 517.0 | 334.9 | 7.9  |
| 49°   | 1970.0 | 1929.3 | 1838.6 | 1699.6 | 1487.5 | 1256.1 | 979.5  | 697.0 | 462.2 | 304.5 | 6.9  |
| 50°   | 1812.4 | 1776.9 | 1693.1 | 1536.2 | 1333.7 | 1093.7 | 828.1  | 591.8 | 393.2 | 266.9 | 5.9  |
| 51°   | 1658.2 | 1631.7 | 1546.2 | 1402.0 | 1196.4 | 968.8  | 717.4  | 492.9 | 324.9 | 221.4 | 5.5  |
| 52°   | 1503.4 | 1500.3 | 1407.5 | 1261.6 | 1063.0 | 844.3  | 609.8  | 415.9 | 275.6 | 185.9 | 5.2  |
| 53°   | 1336.8 | 1316.8 | 1235.8 | 1104.7 | 914.0  | 714.6  | 517.0  | 350.8 | 237.3 | 158.3 | 4.5  |
| 54°   | 1147.1 | 1124.7 | 1037.8 | 919.5  | 746.7  | 585.3  | 416.6  | 283.5 | 197.6 | 133.8 | 4.1  |
| 55°   | 936.0  | 897.8  | 834.6  | 713.2  | 583.2  | 446.6  | 321.8  | 224.5 | 158.0 | 111.4 | 3.4  |
| 56°   | 710.1  | 671.9  | 636.3  | 547.0  | 428.0  | 333.2  | 239.7  | 172.1 | 123.5 | 87.9  | 3.1  |
| 57°   | 493.9  | 491.8  | 433.5  | 364.9  | 286.3  | 226.9  | 164.2  | 121.4 | 87.3  | 68.3  | 2.4  |
| 58°   | 320.4  | 309.7  | 272.5  | 232.8  | 187.3  | 141.8  | 105.5  | 82.4  | 59.3  | 46.6  | 2.1  |
| 59°   | 224.5  | 203.1  | 183.1  | 155.2  | 118.0  | 89.3   | 67.9   | 52.8  | 41.0  | 32.4  | 1.4  |
| 60°   | 138.0  | 133.5  | 120.0  | 94.5   | 76.6   | 63.1   | 50.7   | 39.0  | 30.0  | 23.1  | 0.7  |
| 62.5° | 39.3   | 40.0   | 36.2   | 32.1   | 27.6   | 23.8   | 21.4   | 18.3  | 15.2  | 12.1  | 0.0  |
| 65°   | 9.0    | 8.6    | 9.3    | 8.6    | 7.9    | 7.9    | 6.9    | 6.2   | 5.5   | 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°    | 25.5  | 25.5 | 25.5   | 25.5 | 25.5   | 25.5 |
| 2.5°  | 26.6  | 25.2 | 24.1   | 23.1 | 22.8   | 22.8 |
| 5°    | 25.9  | 23.8 | 21.7   | 20.7 | 20.0   | 20.0 |
| 7.5°  | 23.8  | 21.4 | 19.3   | 18.3 | 17.9   | 17.9 |
| 10°   | 21.4  | 18.6 | 16.6   | 15.9 | 15.9   | 15.5 |
| 12.5° | 18.6  | 15.9 | 14.5   | 14.1 | 14.1   | 14.1 |
| 15°   | 15.5  | 13.5 | 12.4   | 12.4 | 12.8   | 13.1 |
| 17.5° | 13.1  | 11.0 | 10.7   | 11.4 | 12.1   | 12.1 |
| 20°   | 11.0  | 9.7  | 9.7    | 10.3 | 11.0   | 11.4 |
| 22.5° | 9.3   | 8.3  | 8.6    | 9.7  | 10.7   | 11.0 |
| 25°   | 8.3   | 7.2  | 7.9    | 9.0  | 10.0   | 10.7 |
| 27.5° | 6.9   | 6.6  | 7.2    | 8.6  | 10.0   | 10.3 |
| 30°   | 5.9   | 5.9  | 6.9    | 8.3  | 9.7    | 10.0 |
| 31°   | 5.5   | 5.5  | 6.9    | 8.3  | 9.7    | 10.0 |
| 32°   | 5.2   | 5.5  | 6.6    | 8.3  | 9.7    | 10.0 |
| 33°   | 4.8   | 5.2  | 6.6    | 7.9  | 9.7    | 10.0 |
| 34°   | 4.5   | 5.2  | 6.6    | 7.9  | 9.7    | 10.0 |
| 35°   | 4.1   | 5.2  | 6.6    | 7.9  | 9.7    | 10.0 |
| 36°   | 3.8   | 4.8  | 6.2    | 7.9  | 9.7    | 10.0 |
| 37°   | 3.4   | 4.8  | 6.2    | 7.9  | 9.7    | 10.0 |
| 38°   | 3.1   | 4.5  | 6.2    | 7.9  | 9.7    | 10.0 |
| 39°   | 3.1   | 4.5  | 5.9    | 7.9  | 9.3    | 10.0 |
| 40°   | 2.8   | 4.1  | 5.9    | 7.9  | 9.3    | 10.0 |
| 41°   | 2.4   | 4.1  | 5.9    | 7.6  | 9.3    | 10.0 |
| 42°   | 2.1   | 3.8  | 5.5    | 7.6  | 9.3    | 10.0 |
| 43°   | 1.7   | 3.8  | 5.5    | 7.6  | 9.3    | 10.0 |
| 44°   | 1.7   | 3.4  | 5.5    | 7.6  | 9.3    | 10.0 |
| 45°   | 1.4   | 3.4  | 5.5    | 7.6  | 9.3    | 10.0 |
| 46°   | 1.0   | 3.4  | 5.5    | 7.6  | 9.3    | 10.0 |
| 47°   | 1.0   | 3.1  | 5.2    | 7.6  | 9.3    | 10.0 |
| 48°   | 0.7   | 3.1  | 5.2    | 7.6  | 9.3    | 10.0 |
| 49°   | 0.7   | 3.1  | 5.2    | 7.6  | 9.3    | 10.3 |
| 50°   | 0.7   | 3.1  | 5.2    | 7.2  | 9.3    | 10.3 |
| 51°   | 0.3   | 3.1  | 5.2    | 7.2  | 9.3    | 10.3 |
| 52°   | 0.3   | 3.1  | 4.8    | 7.2  | 9.7    | 10.3 |
| 53°   | 0.3   | 2.8  | 4.8    | 7.2  | 9.7    | 10.3 |
| 54°   | 0.3   | 2.8  | 4.8    | 7.2  | 9.7    | 10.0 |
| 55°   | 0.3   | 2.8  | 4.8    | 7.2  | 9.3    | 10.0 |
| 56°   | 0.3   | 2.4  | 4.8    | 7.2  | 9.3    | 10.0 |
| 57°   | 0.3   | 2.4  | 4.5    | 6.9  | 9.3    | 9.7  |
| 58°   | 0.3   | 2.4  | 4.5    | 6.9  | 9.3    | 9.7  |
| 59°   | 0.3   | 2.4  | 4.5    | 6.9  | 9.0    | 9.7  |
| 60°   | 0.7   | 2.1  | 4.1    | 6.6  | 9.0    | 9.7  |
| 62.5° | 0.7   | 2.1  | 4.1    | 6.6  | 8.6    | 9.3  |
| 65°   | 0.7   | 2.1  | 3.8    | 6.2  | 8.6    | 9.3  |



TEST NUMBER: P1336961

CATALOG NUMBER: P3A05R209827DE010 E3CA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.7   | 1.7 | 3.4    | 5.9  | 8.3    | 9.0  |
| 70°   | 0.7   | 2.1 | 3.4    | 5.5  | 7.9    | 8.6  |
| 72.5° | 1.0   | 1.7 | 3.1    | 5.2  | 7.6    | 8.3  |
| 75°   | 1.0   | 1.7 | 3.1    | 4.8  | 7.2    | 7.6  |
| 77.5° | 1.4   | 1.7 | 2.8    | 4.1  | 6.6    | 6.9  |
| 80°   | 1.4   | 1.7 | 2.4    | 3.4  | 5.5    | 5.9  |
| 82.5° | 1.4   | 1.7 | 1.7    | 2.8  | 4.1    | 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)