

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: P1336290

Luminaire Tested: P3A05R159024DE010 E3A451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336290  
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: P3A05R159024DE010 E3A451MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

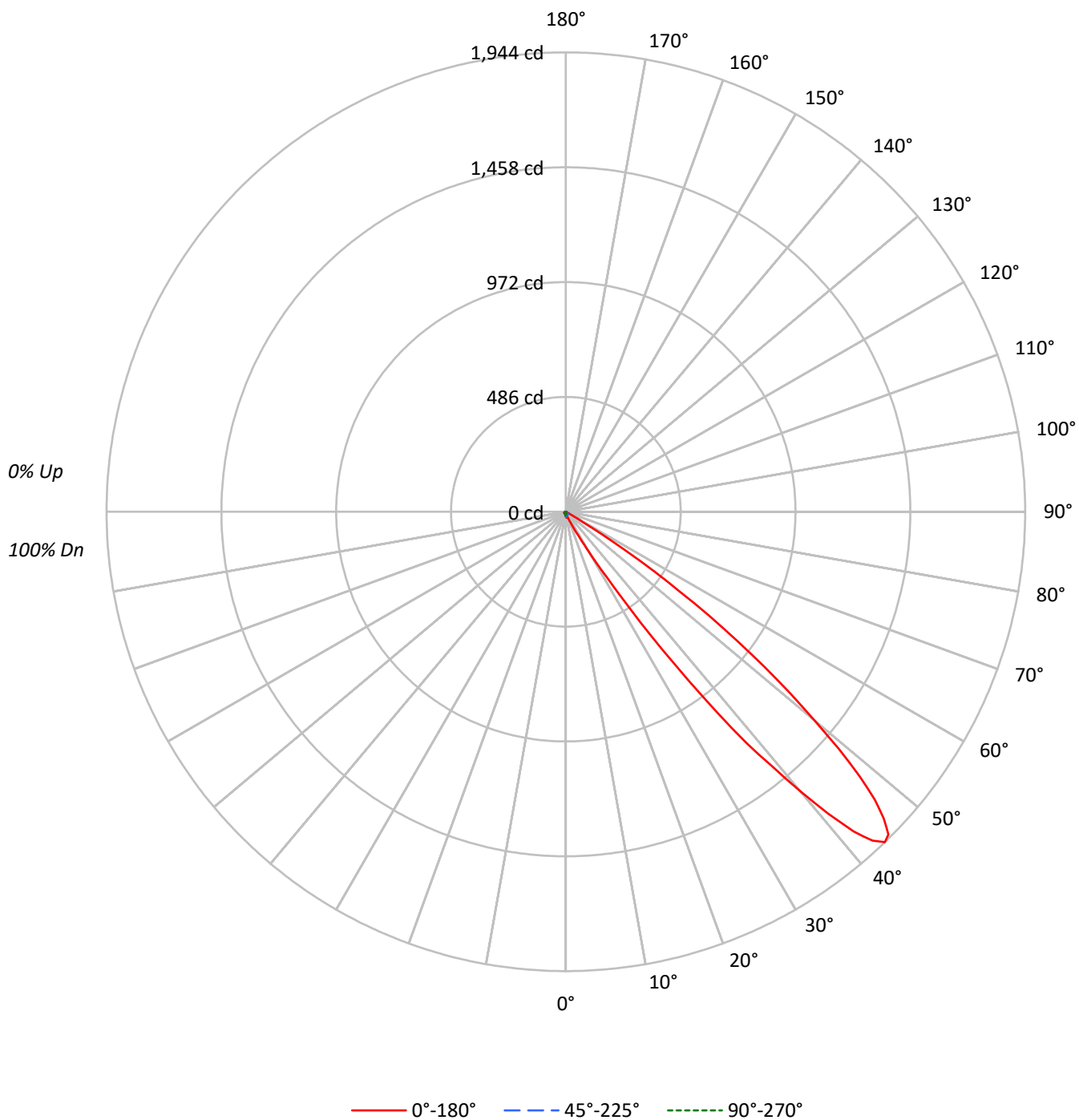
Lumens per Lamp: N/A  
Luminaire Lumens: 217.0 lumens  
Efficiency: N/A  
Efficacy: 30.1 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1336290

CATALOG NUMBER: P3A05R159024DE010 E3A451MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1336290

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

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 4232   | 4232 | 4232 | 4232 | 4232 |
| 5°  | 5239   | 4667 | 3808 | 3324 | 3280 |
| 10° | 5166   | 4008 | 2939 | 2605 | 2650 |
| 15° | 4268   | 2838 | 2111 | 2157 | 2316 |
| 20° | 7421   | 2264 | 1610 | 1867 | 2124 |
| 25° | 16549  | 2734 | 1307 | 1718 | 1984 |
| 30° | 49476  | 3342 | 1139 | 1696 | 2076 |
| 35° | 190436 | 3774 | 1044 | 1740 | 2195 |
| 40° | 442028 | 3292 | 1002 | 1803 | 2347 |
| 45° | 598729 | 2481 | 868  | 1954 | 2543 |
| 50° | 469443 | 1467 | 887  | 2081 | 2797 |
| 55° | 225330 | 650  | 841  | 2217 | 3058 |
| 60° | 20612  | 88   | 746  | 2368 | 3421 |
| 65° | 2231   | 0    | 675  | 2491 | 3684 |
| 70° | 577    | 0    | 833  | 2629 | 4039 |
| 75° | 508    | 169  | 1101 | 2965 | 4575 |
| 80° | 505    | 505  | 1389 | 3031 | 4925 |
| 85° | 503    | 503  | 2264 | 2768 | 5535 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 598729 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.8       |
| 10°-20°   | 3.4    | 1.6       |
| 20°-30°   | 8.2    | 3.8       |
| 30°-40°   | 44.9   | 20.7      |
| 40°-50°   | 108.7  | 50.1      |
| 50°-60°   | 43.4   | 20.0      |
| 60°-70°   | 3.7    | 1.7       |
| 70°-80°   | 2.1    | 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°    | 13.3   | 6.1       |
| 0°-40°    | 58.2   | 26.8      |
| 0°-60°    | 210.2  | 96.9      |
| 0°-90°    | 217.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 217.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 19   | 19  | 19  | 19   | 19   |      |
| 5°  | 24   | 21  | 17  | 15   | 15   | 2    |
| 15° | 19   | 12  | 9   | 10   | 10   | 7    |
| 25° | 68   | 11  | 5   | 7    | 8    | 41   |
| 35° | 711  | 14  | 4   | 6    | 8    | 503  |
| 45° | 1931 | 8   | 3   | 6    | 8    | 1362 |
| 55° | 589  | 2   | 2   | 6    | 8    | 549  |
| 65° | 4    | 0   | 1   | 5    | 7    | 11   |
| 75° | 1    | 0   | 1   | 4    | 5    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1336290

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|
| 0°    | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   | 19.3  | 19.3  | 19.3  | 19.3  | 19.3  | 19.3 |
| 2.5°  | 21.6   | 21.6   | 21.9   | 21.6   | 21.6   | 21.6  | 21.6  | 21.4  | 21.4  | 21.4  | 20.8 |
| 5°    | 23.8   | 23.8   | 23.8   | 23.8   | 23.6   | 23.6  | 23.6  | 23.4  | 23.4  | 23.2  | 21.2 |
| 7.5°  | 24.7   | 24.7   | 24.4   | 24.4   | 24.2   | 24.2  | 24.0  | 23.8  | 23.6  | 23.4  | 20.3 |
| 10°   | 23.2   | 23.2   | 23.2   | 22.9   | 22.9   | 22.7  | 22.5  | 22.3  | 22.1  | 21.6  | 18.0 |
| 12.5° | 20.6   | 20.6   | 20.8   | 20.6   | 20.3   | 20.1  | 19.7  | 19.5  | 19.3  | 18.8  | 14.9 |
| 15°   | 18.8   | 18.8   | 18.8   | 18.6   | 18.4   | 18.0  | 17.7  | 17.3  | 17.1  | 16.4  | 12.5 |
| 17.5° | 24.0   | 24.0   | 23.8   | 23.4   | 22.5   | 21.9  | 20.8  | 19.9  | 18.8  | 17.5  | 10.8 |
| 20°   | 31.8   | 31.8   | 31.4   | 30.9   | 29.9   | 28.8  | 27.0  | 25.5  | 23.8  | 22.3  | 9.7  |
| 22.5° | 46.1   | 46.7   | 45.4   | 43.9   | 42.4   | 39.8  | 37.4  | 35.1  | 32.0  | 29.4  | 10.0 |
| 25°   | 68.4   | 69.0   | 68.4   | 64.9   | 62.1   | 58.6  | 54.1  | 49.3  | 44.1  | 39.4  | 11.3 |
| 27.5° | 110.8  | 111.2  | 110.1  | 101.7  | 97.1   | 88.1  | 80.1  | 72.3  | 63.6  | 55.0  | 12.3 |
| 30°   | 195.4  | 195.6  | 188.7  | 171.8  | 156.9  | 137.0 | 120.1 | 103.9 | 90.2  | 76.4  | 13.2 |
| 31°   | 257.3  | 251.2  | 236.5  | 216.2  | 192.4  | 165.5 | 142.4 | 121.4 | 101.0 | 86.1  | 13.4 |
| 32°   | 326.7  | 325.9  | 301.4  | 266.1  | 234.3  | 200.8 | 166.0 | 139.1 | 115.8 | 95.4  | 13.6 |
| 33°   | 418.7  | 419.1  | 380.6  | 339.1  | 286.9  | 241.9 | 196.2 | 159.5 | 131.3 | 106.5 | 14.1 |
| 34°   | 562.3  | 528.6  | 483.4  | 427.1  | 356.1  | 288.4 | 229.1 | 183.0 | 145.4 | 117.1 | 14.1 |
| 35°   | 711.4  | 677.5  | 627.7  | 542.4  | 445.1  | 350.3 | 268.3 | 208.4 | 162.3 | 128.5 | 14.1 |
| 36°   | 878.5  | 849.7  | 774.4  | 665.6  | 541.4  | 408.7 | 309.8 | 237.6 | 178.9 | 138.9 | 13.8 |
| 37°   | 1058.9 | 1016.7 | 933.2  | 814.4  | 648.2  | 490.9 | 360.5 | 266.6 | 195.6 | 150.2 | 13.4 |
| 38°   | 1242.2 | 1204.1 | 1098.7 | 954.8  | 775.9  | 577.7 | 411.1 | 294.5 | 211.0 | 158.6 | 12.8 |
| 39°   | 1381.1 | 1360.3 | 1255.8 | 1095.0 | 877.8  | 659.9 | 463.2 | 324.3 | 227.2 | 167.0 | 12.1 |
| 40°   | 1544.2 | 1510.7 | 1411.6 | 1212.8 | 998.3  | 743.7 | 514.3 | 350.7 | 240.6 | 173.7 | 11.5 |
| 41°   | 1693.1 | 1650.7 | 1525.6 | 1333.5 | 1094.8 | 819.0 | 562.8 | 378.0 | 251.4 | 177.6 | 11.0 |
| 42°   | 1820.7 | 1771.4 | 1640.7 | 1436.9 | 1175.5 | 879.1 | 601.5 | 397.5 | 261.6 | 180.9 | 10.4 |
| 43°   | 1903.4 | 1860.8 | 1732.3 | 1514.6 | 1244.6 | 934.3 | 637.6 | 417.8 | 267.9 | 183.0 | 9.5  |
| 44°   | 1943.6 | 1900.6 | 1776.2 | 1563.3 | 1287.0 | 967.4 | 661.0 | 431.9 | 274.8 | 185.9 | 8.9  |
| 45°   | 1930.7 | 1887.0 | 1766.7 | 1564.1 | 1300.2 | 979.3 | 671.0 | 438.1 | 278.5 | 188.5 | 8.0  |
| 46°   | 1871.2 | 1840.4 | 1719.3 | 1523.5 | 1275.1 | 966.5 | 665.3 | 433.4 | 277.2 | 188.5 | 7.1  |
| 47°   | 1787.6 | 1752.6 | 1637.3 | 1453.6 | 1214.3 | 933.6 | 642.6 | 418.9 | 269.2 | 184.1 | 6.3  |
| 48°   | 1673.8 | 1644.0 | 1522.8 | 1342.6 | 1121.0 | 862.0 | 591.3 | 395.3 | 256.6 | 175.7 | 5.4  |
| 49°   | 1531.0 | 1489.5 | 1376.8 | 1200.6 | 999.4  | 760.3 | 524.0 | 355.5 | 236.5 | 163.8 | 4.8  |
| 50°   | 1376.1 | 1324.8 | 1237.8 | 1058.5 | 873.7  | 651.9 | 435.6 | 300.5 | 208.1 | 148.2 | 4.3  |
| 51°   | 1224.4 | 1172.3 | 1089.4 | 936.9  | 739.6  | 540.9 | 351.4 | 240.0 | 171.4 | 126.8 | 3.7  |
| 52°   | 1067.1 | 1023.4 | 930.6  | 810.7  | 633.1  | 438.4 | 292.7 | 203.0 | 142.4 | 106.5 | 3.0  |
| 53°   | 910.5  | 880.6  | 792.3  | 671.0  | 508.7  | 358.1 | 239.1 | 173.7 | 124.2 | 91.1  | 2.4  |
| 54°   | 753.6  | 720.9  | 653.9  | 545.7  | 410.0  | 282.6 | 202.7 | 145.4 | 107.8 | 79.4  | 2.2  |
| 55°   | 589.4  | 572.5  | 510.6  | 416.1  | 310.7  | 225.5 | 164.4 | 125.1 | 90.2  | 66.4  | 1.7  |
| 56°   | 453.9  | 434.9  | 378.4  | 301.8  | 230.9  | 176.6 | 133.1 | 102.1 | 76.4  | 55.6  | 1.3  |
| 57°   | 297.3  | 277.8  | 240.4  | 210.7  | 168.1  | 128.7 | 101.7 | 80.5  | 62.1  | 46.1  | 1.1  |
| 58°   | 175.7  | 157.9  | 152.1  | 129.8  | 112.1  | 87.4  | 75.1  | 59.9  | 45.9  | 36.4  | 0.6  |
| 59°   | 80.7   | 82.0   | 72.9   | 68.4   | 62.1   | 55.6  | 45.7  | 40.0  | 31.4  | 26.2  | 0.4  |
| 60°   | 47.0   | 44.4   | 43.3   | 38.7   | 34.4   | 30.5  | 27.5  | 24.2  | 19.7  | 16.9  | 0.2  |
| 62.5° | 16.0   | 15.4   | 15.8   | 14.3   | 13.4   | 13.0  | 11.9  | 10.2  | 8.4   | 6.9   | 0.0  |
| 65°   | 4.3    | 4.3    | 4.1    | 3.9    | 3.7    | 3.5   | 3.2   | 2.8   | 2.6   | 2.2   | 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° | 1.5 | 1.5  | 1.3 | 1.3  | 1.1 | 1.1   | 0.9 | 0.9   | 0.6 | 0.6   | 0.0 |
| 70°   | 0.9 | 0.9  | 0.9 | 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°    | 19.3  | 19.3 | 19.3   | 19.3 | 19.3   | 19.3 |
| 2.5°  | 19.9  | 19.0 | 18.0   | 17.3 | 17.1   | 16.9 |
| 5°    | 19.0  | 17.3 | 16.0   | 15.1 | 14.9   | 14.9 |
| 7.5°  | 17.1  | 15.1 | 13.8   | 13.4 | 13.2   | 13.2 |
| 10°   | 14.9  | 13.2 | 12.1   | 11.7 | 11.9   | 11.9 |
| 12.5° | 12.5  | 11.0 | 10.6   | 10.6 | 10.8   | 11.0 |
| 15°   | 10.2  | 9.3  | 9.3    | 9.5  | 10.0   | 10.2 |
| 17.5° | 8.4   | 8.0  | 8.2    | 8.7  | 9.1    | 9.5  |
| 20°   | 6.9   | 6.9  | 7.4    | 8.0  | 8.7    | 9.1  |
| 22.5° | 5.8   | 6.1  | 6.7    | 7.4  | 8.2    | 8.7  |
| 25°   | 5.0   | 5.4  | 6.1    | 7.1  | 8.0    | 8.2  |
| 27.5° | 4.3   | 5.0  | 5.8    | 6.9  | 7.8    | 8.2  |
| 30°   | 3.7   | 4.5  | 5.6    | 6.7  | 7.8    | 8.2  |
| 31°   | 3.5   | 4.3  | 5.4    | 6.7  | 7.8    | 8.2  |
| 32°   | 3.2   | 4.3  | 5.4    | 6.7  | 7.8    | 8.2  |
| 33°   | 3.0   | 4.1  | 5.4    | 6.5  | 7.8    | 8.2  |
| 34°   | 2.8   | 4.1  | 5.4    | 6.7  | 7.8    | 8.2  |
| 35°   | 2.6   | 3.9  | 5.2    | 6.5  | 7.6    | 8.2  |
| 36°   | 2.4   | 3.9  | 5.2    | 6.5  | 7.8    | 8.2  |
| 37°   | 2.2   | 3.9  | 5.2    | 6.5  | 7.6    | 8.2  |
| 38°   | 2.2   | 3.7  | 5.0    | 6.5  | 7.6    | 8.2  |
| 39°   | 1.9   | 3.5  | 5.0    | 6.5  | 7.6    | 8.2  |
| 40°   | 1.7   | 3.5  | 4.8    | 6.3  | 7.6    | 8.2  |
| 41°   | 1.5   | 3.2  | 4.8    | 6.3  | 7.6    | 8.2  |
| 42°   | 1.3   | 3.2  | 4.8    | 6.3  | 7.6    | 8.2  |
| 43°   | 1.1   | 3.0  | 4.5    | 6.3  | 7.6    | 8.2  |
| 44°   | 1.1   | 3.0  | 4.5    | 6.3  | 7.6    | 8.2  |
| 45°   | 0.9   | 2.8  | 4.3    | 6.3  | 7.6    | 8.2  |
| 46°   | 0.9   | 2.8  | 4.3    | 6.1  | 7.6    | 8.2  |
| 47°   | 0.6   | 2.8  | 4.3    | 6.1  | 7.6    | 8.2  |
| 48°   | 0.6   | 2.6  | 4.3    | 6.1  | 7.6    | 8.2  |
| 49°   | 0.4   | 2.6  | 4.3    | 6.1  | 7.6    | 8.2  |
| 50°   | 0.4   | 2.6  | 4.1    | 6.1  | 7.6    | 8.2  |
| 51°   | 0.4   | 2.6  | 4.1    | 6.1  | 7.6    | 8.2  |
| 52°   | 0.4   | 2.4  | 4.1    | 6.1  | 7.6    | 8.2  |
| 53°   | 0.4   | 2.4  | 4.1    | 6.1  | 7.6    | 8.2  |
| 54°   | 0.4   | 2.4  | 3.9    | 6.1  | 7.6    | 8.2  |
| 55°   | 0.4   | 2.2  | 3.9    | 5.8  | 7.6    | 8.0  |
| 56°   | 0.4   | 2.2  | 3.9    | 5.8  | 7.6    | 8.0  |
| 57°   | 0.4   | 2.2  | 3.7    | 5.8  | 7.6    | 8.0  |
| 58°   | 0.4   | 1.9  | 3.7    | 5.6  | 7.4    | 8.0  |
| 59°   | 0.4   | 1.9  | 3.5    | 5.6  | 7.4    | 7.8  |
| 60°   | 0.4   | 1.7  | 3.5    | 5.4  | 7.1    | 7.8  |
| 62.5° | 0.4   | 1.5  | 3.0    | 5.2  | 6.9    | 7.4  |
| 65°   | 0.4   | 1.3  | 2.8    | 4.8  | 6.7    | 7.1  |



TEST NUMBER: P1336290

CATALOG NUMBER: P3A05R159024DE010 E3A451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.3 | 2.6    | 4.5  | 6.3    | 6.9  |
| 70°   | 0.4   | 1.3 | 2.4    | 4.1  | 6.1    | 6.3  |
| 72.5° | 0.6   | 1.3 | 2.2    | 3.9  | 5.6    | 5.8  |
| 75°   | 0.9   | 1.3 | 1.9    | 3.5  | 5.2    | 5.4  |
| 77.5° | 0.9   | 1.3 | 1.7    | 3.0  | 4.5    | 4.8  |
| 80°   | 0.9   | 1.1 | 1.5    | 2.4  | 3.7    | 3.9  |
| 82.5° | 0.9   | 1.1 | 1.1    | 1.9  | 2.8    | 3.0  |
| 85°   | 0.6   | 0.9 | 0.9    | 1.1  | 1.9    | 2.2  |
| 87.5° | 0.6   | 0.9 | 0.4    | 0.6  | 0.9    | 0.9  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)