

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: P1344062

Luminaire Tested: P3A13R209830DE010 E3A451H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344062  
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: P3A13R209830DE010 E3A451H  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

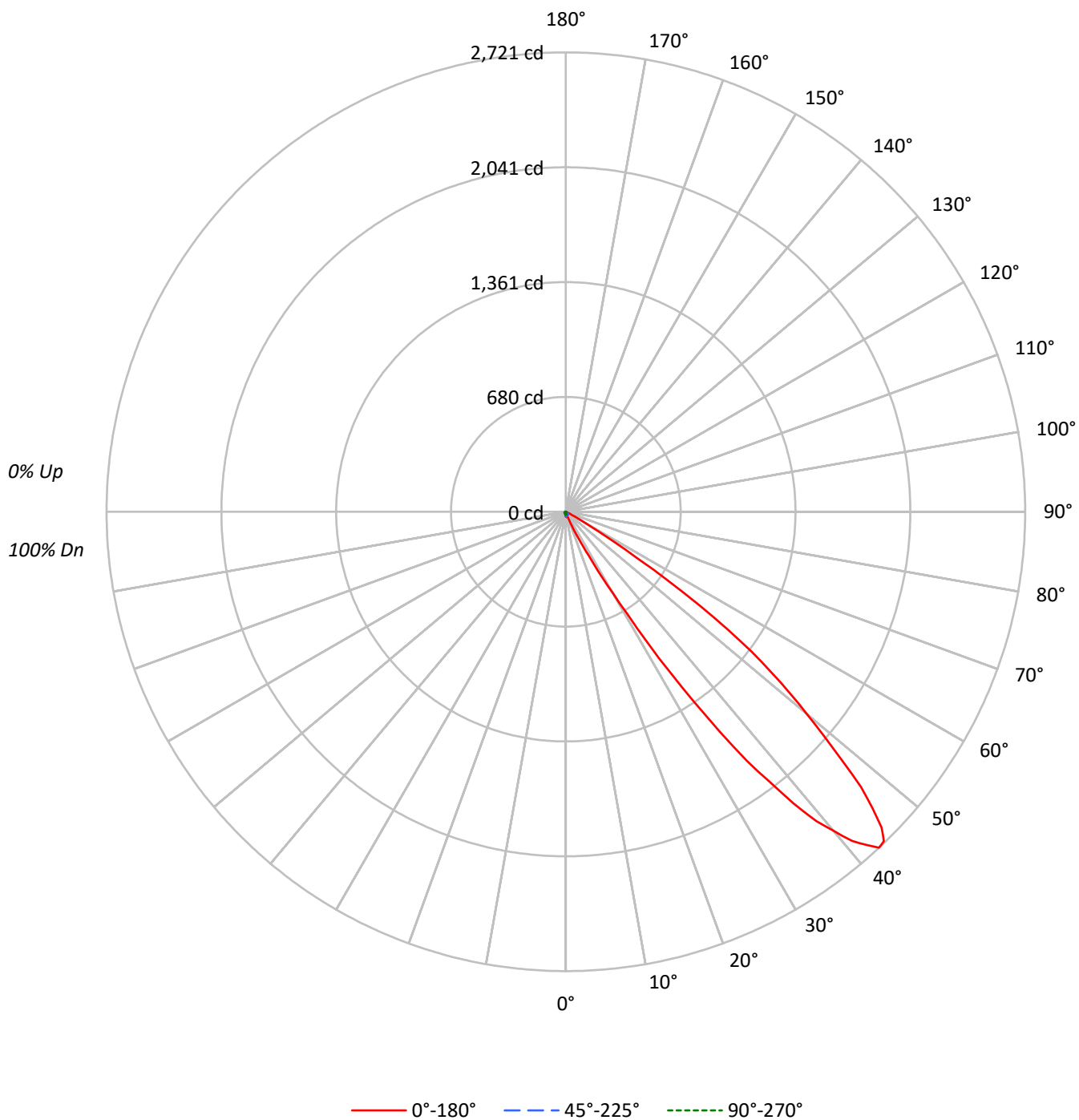
Lumens per Lamp: N/A  
Luminaire Lumens: 378.0 lumens  
Efficiency: N/A  
Efficacy: 26.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1344062

CATALOG NUMBER: P3A13R209830DE010 E3A451H

### Luminous Intensity Polar Plot



TEST NUMBER: P1344062

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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°  | 5767   | 5767 | 5767 | 5767 | 5767 |
| 5°  | 6714   | 6251 | 5393 | 4689 | 4534 |
| 10° | 6635   | 5700 | 4275 | 3629 | 3563 |
| 15° | 5812   | 4359 | 3156 | 2906 | 3065 |
| 20° | 8611   | 3640 | 2310 | 2497 | 2730 |
| 25° | 37139  | 3774 | 1815 | 2226 | 2661 |
| 30° | 140401 | 4583 | 1519 | 2152 | 2608 |
| 35° | 425631 | 5514 | 1419 | 2195 | 2757 |
| 40° | 705808 | 5496 | 1231 | 2347 | 2948 |
| 45° | 820364 | 3752 | 1116 | 2419 | 3194 |
| 50° | 636806 | 2047 | 1092 | 2559 | 3650 |
| 55° | 368579 | 1376 | 1070 | 2867 | 3938 |
| 60° | 62320  | 307  | 921  | 2938 | 4342 |
| 65° | 4774   | 0    | 1090 | 3321 | 4981 |
| 70° | 705    | 0    | 1346 | 3654 | 5706 |
| 75° | 593    | 339  | 1525 | 4236 | 6608 |
| 80° | 505    | 505  | 2273 | 4546 | 7577 |
| 85° | 1006   | 1006 | 3522 | 4529 | 8051 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 820364 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.3    | 0.6       |
| 10°-20°   | 4.7    | 1.3       |
| 20°-30°   | 15.1   | 4.0       |
| 30°-40°   | 96.4   | 25.5      |
| 40°-50°   | 176.4  | 46.7      |
| 50°-60°   | 72.5   | 19.2      |
| 60°-70°   | 6.1    | 1.6       |
| 70°-80°   | 3.1    | 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°    | 22.1   | 5.8       |
| 0°-40°    | 118.5  | 31.3      |
| 0°-60°    | 367.4  | 97.2      |
| 0°-90°    | 378.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 378.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 26   | 26  | 26  | 26   | 26   |      |
| 5°  | 30   | 28  | 24  | 21   | 21   | 3    |
| 15° | 26   | 19  | 14  | 13   | 14   | 8    |
| 25° | 154  | 16  | 8   | 9    | 11   | 101  |
| 35° | 1590 | 21  | 5   | 8    | 10   | 1006 |
| 45° | 2645 | 12  | 4   | 8    | 10   | 1899 |
| 55° | 964  | 4   | 3   | 8    | 10   | 843  |
| 65° | 9    | 0   | 2   | 6    | 10   | 30   |
| 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°    | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3  | 26.3  | 26.3  | 26.3 |
| 2.5°  | 28.8   | 28.8   | 28.8   | 28.4   | 28.4   | 28.8   | 28.4   | 28.4  | 28.4  | 28.4  | 28.1 |
| 5°    | 30.5   | 30.5   | 30.5   | 30.5   | 30.5   | 30.5   | 30.5   | 30.2  | 30.2  | 29.8  | 28.4 |
| 7.5°  | 31.3   | 31.3   | 31.3   | 31.3   | 30.9   | 30.9   | 30.9   | 30.9  | 30.5  | 30.2  | 27.7 |
| 10°   | 29.8   | 29.8   | 29.8   | 29.5   | 29.5   | 29.5   | 29.1   | 29.1  | 28.8  | 28.4  | 25.6 |
| 12.5° | 27.0   | 27.0   | 27.0   | 27.0   | 26.6   | 26.6   | 26.3   | 26.3  | 25.9  | 25.6  | 22.4 |
| 15°   | 25.6   | 25.6   | 25.6   | 25.2   | 25.2   | 24.9   | 24.5   | 24.2  | 23.8  | 23.1  | 19.2 |
| 17.5° | 27.7   | 27.7   | 27.4   | 27.4   | 26.6   | 25.9   | 25.6   | 24.5  | 23.8  | 22.7  | 17.1 |
| 20°   | 36.9   | 37.3   | 35.9   | 34.8   | 34.1   | 32.0   | 30.9   | 29.1  | 27.7  | 25.9  | 15.6 |
| 22.5° | 74.6   | 73.2   | 70.7   | 66.8   | 62.2   | 58.3   | 51.2   | 45.5  | 41.6  | 36.2  | 15.3 |
| 25°   | 153.5  | 152.0  | 145.3  | 139.6  | 125.4  | 114.4  | 99.1   | 86.7  | 73.9  | 61.5  | 15.6 |
| 27.5° | 291.6  | 282.1  | 280.3  | 254.3  | 234.5  | 206.0  | 176.5  | 151.7 | 128.9 | 103.7 | 16.7 |
| 30°   | 554.5  | 543.5  | 504.8  | 465.7  | 412.1  | 351.3  | 293.4  | 239.4 | 194.3 | 153.5 | 18.1 |
| 31°   | 703.7  | 714.4  | 668.9  | 590.4  | 511.2  | 433.4  | 354.2  | 285.6 | 227.3 | 176.5 | 18.8 |
| 32°   | 925.0  | 878.5  | 830.5  | 749.9  | 634.8  | 535.3  | 435.9  | 337.1 | 260.4 | 201.4 | 19.5 |
| 33°   | 1134.3 | 1106.9 | 1033.7 | 933.2  | 795.0  | 655.4  | 526.5  | 397.9 | 300.9 | 231.6 | 19.9 |
| 34°   | 1357.3 | 1327.1 | 1267.8 | 1123.6 | 971.9  | 789.0  | 617.0  | 467.8 | 349.2 | 261.1 | 20.2 |
| 35°   | 1590.0 | 1577.2 | 1462.8 | 1337.8 | 1151.3 | 930.7  | 726.1  | 544.6 | 396.4 | 288.1 | 20.6 |
| 36°   | 1824.1 | 1782.9 | 1693.4 | 1510.8 | 1316.1 | 1061.8 | 840.5  | 616.0 | 444.4 | 320.1 | 20.6 |
| 37°   | 2000.3 | 1991.1 | 1872.4 | 1694.5 | 1465.7 | 1201.7 | 939.2  | 695.2 | 492.7 | 347.4 | 20.6 |
| 38°   | 2194.6 | 2158.0 | 2037.6 | 1856.4 | 1606.4 | 1330.0 | 1042.6 | 764.1 | 538.5 | 372.3 | 20.2 |
| 39°   | 2358.4 | 2304.0 | 2182.5 | 2003.5 | 1729.3 | 1427.3 | 1124.7 | 830.9 | 579.0 | 392.9 | 19.9 |
| 40°   | 2465.7 | 2428.0 | 2301.2 | 2099.8 | 1840.8 | 1519.3 | 1207.8 | 885.9 | 609.2 | 408.5 | 19.2 |
| 41°   | 2584.0 | 2521.4 | 2396.0 | 2193.6 | 1921.8 | 1600.3 | 1260.0 | 922.2 | 632.7 | 418.8 | 18.5 |
| 42°   | 2654.6 | 2603.5 | 2454.6 | 2256.4 | 1979.7 | 1646.5 | 1302.6 | 949.9 | 646.9 | 424.1 | 17.1 |
| 43°   | 2720.7 | 2651.1 | 2506.2 | 2293.0 | 2018.1 | 1679.2 | 1322.2 | 962.7 | 650.1 | 424.1 | 15.3 |
| 44°   | 2711.8 | 2645.8 | 2495.5 | 2298.0 | 2026.6 | 1688.8 | 1330.3 | 963.0 | 645.1 | 418.8 | 13.5 |
| 45°   | 2645.4 | 2579.7 | 2444.3 | 2254.7 | 1996.0 | 1669.9 | 1314.0 | 948.8 | 631.2 | 409.6 | 12.1 |
| 46°   | 2523.6 | 2458.2 | 2354.5 | 2182.2 | 1939.2 | 1627.3 | 1276.0 | 917.9 | 608.2 | 394.7 | 10.7 |
| 47°   | 2391.1 | 2327.5 | 2221.3 | 2065.3 | 1842.2 | 1551.3 | 1220.9 | 874.6 | 575.8 | 373.0 | 9.6  |
| 48°   | 2198.9 | 2159.1 | 2052.5 | 1919.3 | 1707.6 | 1432.3 | 1124.3 | 803.9 | 532.5 | 344.9 | 8.2  |
| 49°   | 2029.1 | 1987.2 | 1893.7 | 1750.6 | 1532.1 | 1293.8 | 1008.9 | 717.9 | 476.0 | 313.7 | 7.1  |
| 50°   | 1866.7 | 1830.2 | 1743.8 | 1582.2 | 1373.7 | 1126.4 | 852.9  | 609.6 | 405.0 | 274.9 | 6.0  |
| 51°   | 1708.0 | 1680.6 | 1592.5 | 1444.0 | 1232.3 | 997.8  | 738.9  | 507.6 | 334.6 | 228.1 | 5.7  |
| 52°   | 1548.5 | 1545.3 | 1449.7 | 1299.4 | 1094.8 | 869.6  | 628.0  | 428.4 | 283.8 | 191.5 | 5.3  |
| 53°   | 1376.9 | 1356.3 | 1272.8 | 1137.8 | 941.4  | 736.0  | 532.5  | 361.3 | 244.4 | 163.1 | 4.6  |
| 54°   | 1181.5 | 1158.4 | 1068.9 | 947.0  | 769.1  | 602.8  | 429.1  | 292.0 | 203.5 | 137.8 | 4.3  |
| 55°   | 964.1  | 924.7  | 859.7  | 734.6  | 600.7  | 460.0  | 331.4  | 231.3 | 162.7 | 114.7 | 3.6  |
| 56°   | 731.4  | 692.0  | 655.4  | 563.4  | 440.8  | 343.2  | 246.9  | 177.3 | 127.2 | 90.6  | 3.2  |
| 57°   | 508.7  | 506.6  | 446.5  | 375.8  | 294.8  | 233.7  | 169.1  | 125.0 | 89.9  | 70.3  | 2.5  |
| 58°   | 330.0  | 319.0  | 280.6  | 239.8  | 192.9  | 146.0  | 108.7  | 84.9  | 61.1  | 48.0  | 2.1  |
| 59°   | 231.3  | 209.2  | 188.6  | 159.9  | 121.5  | 92.0   | 70.0   | 54.4  | 42.3  | 33.4  | 1.4  |
| 60°   | 142.1  | 137.5  | 123.6  | 97.3   | 78.9   | 65.0   | 52.2   | 40.1  | 30.9  | 23.8  | 0.7  |
| 62.5° | 40.5   | 41.2   | 37.3   | 33.0   | 28.4   | 24.5   | 22.0   | 18.8  | 15.6  | 12.4  | 0.0  |
| 65°   | 9.2    | 8.9    | 9.6    | 8.9    | 8.2    | 8.2    | 7.1    | 6.4   | 5.7   | 5.3   | 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  | 2.5 | 2.5  | 2.5 | 2.1   | 2.1 | 1.8   | 1.8 | 1.4   | 0.0 |
| 70°   | 1.1 | 1.1  | 1.1 | 1.1  | 1.1 | 0.7   | 0.7 | 0.7   | 0.4 | 0.4   | 0.0 |
| 72.5° | 1.1 | 1.1  | 1.1 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.4 | 0.4   | 0.4 |
| 75°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.4   | 0.4 | 0.4   | 0.4 |
| 77.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.4   | 0.7 | 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 | 0.4   | 0.4 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.0 | 0.0   | 0.4 | 0.4   | 0.4 | 0.0   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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°    | 26.3  | 26.3 | 26.3   | 26.3 | 26.3   | 26.3 |
| 2.5°  | 27.4  | 25.9 | 24.9   | 23.8 | 23.4   | 23.4 |
| 5°    | 26.6  | 24.5 | 22.4   | 21.3 | 20.6   | 20.6 |
| 7.5°  | 24.5  | 22.0 | 19.9   | 18.8 | 18.5   | 18.5 |
| 10°   | 22.0  | 19.2 | 17.1   | 16.3 | 16.3   | 16.0 |
| 12.5° | 19.2  | 16.3 | 14.9   | 14.6 | 14.6   | 14.6 |
| 15°   | 16.0  | 13.9 | 12.8   | 12.8 | 13.1   | 13.5 |
| 17.5° | 13.5  | 11.4 | 11.0   | 11.7 | 12.4   | 12.4 |
| 20°   | 11.4  | 9.9  | 9.9    | 10.7 | 11.4   | 11.7 |
| 22.5° | 9.6   | 8.5  | 8.9    | 9.9  | 11.0   | 11.4 |
| 25°   | 8.5   | 7.5  | 8.2    | 9.2  | 10.3   | 11.0 |
| 27.5° | 7.1   | 6.7  | 7.5    | 8.9  | 10.3   | 10.7 |
| 30°   | 6.0   | 6.0  | 7.1    | 8.5  | 9.9    | 10.3 |
| 31°   | 5.7   | 5.7  | 7.1    | 8.5  | 9.9    | 10.3 |
| 32°   | 5.3   | 5.7  | 6.7    | 8.5  | 9.9    | 10.3 |
| 33°   | 5.0   | 5.3  | 6.7    | 8.2  | 9.9    | 10.3 |
| 34°   | 4.6   | 5.3  | 6.7    | 8.2  | 9.9    | 10.3 |
| 35°   | 4.3   | 5.3  | 6.7    | 8.2  | 9.9    | 10.3 |
| 36°   | 3.9   | 5.0  | 6.4    | 8.2  | 9.9    | 10.3 |
| 37°   | 3.6   | 5.0  | 6.4    | 8.2  | 9.9    | 10.3 |
| 38°   | 3.2   | 4.6  | 6.4    | 8.2  | 9.9    | 10.3 |
| 39°   | 3.2   | 4.6  | 6.0    | 8.2  | 9.6    | 10.3 |
| 40°   | 2.8   | 4.3  | 6.0    | 8.2  | 9.6    | 10.3 |
| 41°   | 2.5   | 4.3  | 6.0    | 7.8  | 9.6    | 10.3 |
| 42°   | 2.1   | 3.9  | 5.7    | 7.8  | 9.6    | 10.3 |
| 43°   | 1.8   | 3.9  | 5.7    | 7.8  | 9.6    | 10.3 |
| 44°   | 1.8   | 3.6  | 5.7    | 7.8  | 9.6    | 10.3 |
| 45°   | 1.4   | 3.6  | 5.7    | 7.8  | 9.6    | 10.3 |
| 46°   | 1.1   | 3.6  | 5.7    | 7.8  | 9.6    | 10.3 |
| 47°   | 1.1   | 3.2  | 5.3    | 7.8  | 9.6    | 10.3 |
| 48°   | 0.7   | 3.2  | 5.3    | 7.8  | 9.6    | 10.3 |
| 49°   | 0.7   | 3.2  | 5.3    | 7.8  | 9.6    | 10.7 |
| 50°   | 0.7   | 3.2  | 5.3    | 7.5  | 9.6    | 10.7 |
| 51°   | 0.4   | 3.2  | 5.3    | 7.5  | 9.6    | 10.7 |
| 52°   | 0.4   | 3.2  | 5.0    | 7.5  | 9.9    | 10.7 |
| 53°   | 0.4   | 2.8  | 5.0    | 7.5  | 9.9    | 10.7 |
| 54°   | 0.4   | 2.8  | 5.0    | 7.5  | 9.9    | 10.3 |
| 55°   | 0.4   | 2.8  | 5.0    | 7.5  | 9.6    | 10.3 |
| 56°   | 0.4   | 2.5  | 5.0    | 7.5  | 9.6    | 10.3 |
| 57°   | 0.4   | 2.5  | 4.6    | 7.1  | 9.6    | 9.9  |
| 58°   | 0.4   | 2.5  | 4.6    | 7.1  | 9.6    | 9.9  |
| 59°   | 0.4   | 2.5  | 4.6    | 7.1  | 9.2    | 9.9  |
| 60°   | 0.7   | 2.1  | 4.3    | 6.7  | 9.2    | 9.9  |
| 62.5° | 0.7   | 2.1  | 4.3    | 6.7  | 8.9    | 9.6  |
| 65°   | 0.7   | 2.1  | 3.9    | 6.4  | 8.9    | 9.6  |



TEST NUMBER: P1344062

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.7   | 1.8 | 3.6    | 6.0  | 8.5    | 9.2  |
| 70°   | 0.7   | 2.1 | 3.6    | 5.7  | 8.2    | 8.9  |
| 72.5° | 1.1   | 1.8 | 3.2    | 5.3  | 7.8    | 8.5  |
| 75°   | 1.1   | 1.8 | 3.2    | 5.0  | 7.5    | 7.8  |
| 77.5° | 1.4   | 1.8 | 2.8    | 4.3  | 6.7    | 7.1  |
| 80°   | 1.4   | 1.8 | 2.5    | 3.6  | 5.7    | 6.0  |
| 82.5° | 1.4   | 1.8 | 1.8    | 2.8  | 4.3    | 4.6  |
| 85°   | 1.1   | 1.4 | 1.4    | 1.8  | 2.8    | 3.2  |
| 87.5° | 1.1   | 1.4 | 1.1    | 0.7  | 1.4    | 1.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)