

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: P1340364

Luminaire Tested: P3A09R209030D2WDE010 E3A451H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340364  
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: P3A09R209030D2WDE010 E3A451H  
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

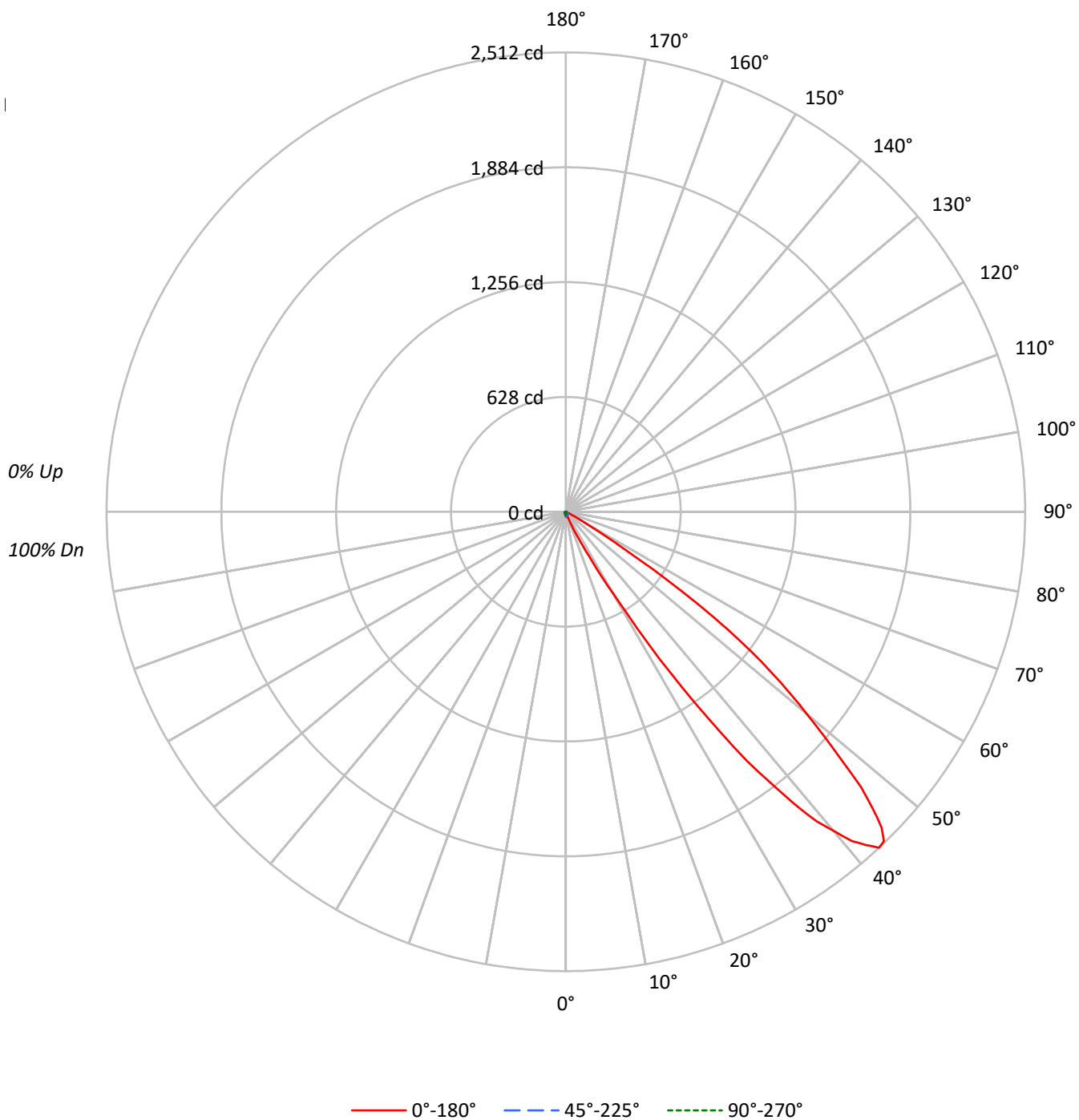
Lumens per Lamp: N/A  
Luminaire Lumens: 349.0 lumens  
Efficiency: N/A  
Efficacy: 23.7 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.7  
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°  | 5329   | 5329 | 5329 | 5329 | 5329 |
| 5°  | 6207   | 5767 | 4975 | 4336 | 4182 |
| 10° | 6146   | 5255 | 3941 | 3362 | 3295 |
| 15° | 5358   | 4018 | 2906 | 2679 | 2838 |
| 20° | 7957   | 3360 | 2147 | 2287 | 2520 |
| 25° | 34284  | 3484 | 1669 | 2057 | 2468 |
| 30° | 129640 | 4228 | 1418 | 2000 | 2405 |
| 35° | 392972 | 5086 | 1312 | 2008 | 2543 |
| 40° | 651649 | 5067 | 1116 | 2147 | 2719 |
| 45° | 757443 | 3473 | 1023 | 2233 | 2946 |
| 50° | 587955 | 1910 | 1023 | 2354 | 3343 |
| 55° | 340289 | 1262 | 994  | 2638 | 3632 |
| 60° | 57539  | 307  | 877  | 2719 | 4035 |
| 65° | 4410   | 0    | 1038 | 3061 | 4618 |
| 70° | 641    | 0    | 1282 | 3334 | 5257 |
| 75° | 593    | 254  | 1356 | 3897 | 6100 |
| 80° | 379    | 379  | 2020 | 4167 | 7072 |
| 85° | 755    | 755  | 3271 | 4026 | 7548 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 757443 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.1    | 0.6       |
| 10°-20°   | 4.4    | 1.3       |
| 20°-30°   | 13.9   | 4.0       |
| 30°-40°   | 89.0   | 25.5      |
| 40°-50°   | 162.9  | 46.7      |
| 50°-60°   | 66.9   | 19.2      |
| 60°-70°   | 5.7    | 1.6       |
| 70°-80°   | 2.8    | 0.8       |
| 80°-90°   | 1.3    | 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°    | 20.4   | 5.8       |
| 0°-40°    | 109.4  | 31.3      |
| 0°-60°    | 339.2  | 97.2      |
| 0°-90°    | 349.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 349.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 24   | 24  | 24  | 24   | 24   |      |
| 5°  | 28   | 26  | 23  | 20   | 19   | 3    |
| 15° | 24   | 18  | 13  | 12   | 12   | 8    |
| 25° | 142  | 14  | 7   | 8    | 10   | 93   |
| 35° | 1468 | 19  | 5   | 8    | 10   | 929  |
| 45° | 2442 | 11  | 3   | 7    | 10   | 1754 |
| 55° | 890  | 3   | 3   | 7    | 10   | 778  |
| 65° | 8    | 0   | 2   | 6    | 9    | 28   |
| 75° | 1    | 0   | 2   | 5    | 7    | 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°    | 24.3   | 24.3   | 24.3   | 24.3   | 24.3   | 24.3   | 24.3   | 24.3  | 24.3  | 24.3  | 24.3 |
| 2.5°  | 26.6   | 26.6   | 26.6   | 26.2   | 26.2   | 26.6   | 26.2   | 26.2  | 26.2  | 26.2  | 25.9 |
| 5°    | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   | 27.9  | 27.9  | 27.6  | 26.2 |
| 7.5°  | 28.9   | 28.9   | 28.9   | 28.9   | 28.5   | 28.5   | 28.5   | 28.5  | 28.2  | 27.9  | 25.6 |
| 10°   | 27.6   | 27.6   | 27.6   | 27.2   | 27.2   | 27.2   | 26.9   | 26.9  | 26.6  | 26.2  | 23.6 |
| 12.5° | 24.9   | 24.9   | 24.9   | 24.9   | 24.6   | 24.6   | 24.3   | 24.3  | 23.9  | 23.6  | 20.7 |
| 15°   | 23.6   | 23.6   | 23.6   | 23.3   | 23.3   | 23.0   | 22.6   | 22.3  | 22.0  | 21.3  | 17.7 |
| 17.5° | 25.6   | 25.6   | 25.3   | 25.3   | 24.6   | 23.9   | 23.6   | 22.6  | 22.0  | 21.0  | 15.7 |
| 20°   | 34.1   | 34.4   | 33.1   | 32.1   | 31.5   | 29.5   | 28.5   | 26.9  | 25.6  | 23.9  | 14.4 |
| 22.5° | 68.9   | 67.6   | 65.3   | 61.7   | 57.4   | 53.8   | 47.2   | 42.0  | 38.4  | 33.5  | 14.1 |
| 25°   | 141.7  | 140.4  | 134.1  | 128.9  | 115.8  | 105.6  | 91.5   | 80.0  | 68.2  | 56.7  | 14.4 |
| 27.5° | 269.3  | 260.4  | 258.8  | 234.8  | 216.5  | 190.2  | 163.0  | 140.0 | 119.1 | 95.8  | 15.4 |
| 30°   | 512.0  | 501.8  | 466.1  | 430.0  | 380.5  | 324.4  | 270.9  | 221.1 | 179.4 | 141.7 | 16.7 |
| 31°   | 649.7  | 659.6  | 617.6  | 545.1  | 472.0  | 400.1  | 327.0  | 263.7 | 209.9 | 163.0 | 17.4 |
| 32°   | 854.1  | 811.1  | 766.8  | 692.4  | 586.1  | 494.3  | 402.4  | 311.3 | 240.4 | 186.0 | 18.0 |
| 33°   | 1047.2 | 1022.0 | 954.4  | 861.6  | 734.0  | 605.1  | 486.1  | 367.3 | 277.8 | 213.8 | 18.4 |
| 34°   | 1253.2 | 1225.3 | 1170.6 | 1037.4 | 897.3  | 728.4  | 569.7  | 431.9 | 322.4 | 241.1 | 18.7 |
| 35°   | 1468.0 | 1456.2 | 1350.6 | 1235.2 | 1063.0 | 859.3  | 670.4  | 502.8 | 366.0 | 266.0 | 19.0 |
| 36°   | 1684.2 | 1646.1 | 1563.5 | 1394.9 | 1215.2 | 980.3  | 776.0  | 568.7 | 410.3 | 295.5 | 19.0 |
| 37°   | 1846.8 | 1838.3 | 1728.8 | 1564.5 | 1353.2 | 1109.5 | 867.2  | 641.9 | 454.9 | 320.8 | 19.0 |
| 38°   | 2026.2 | 1992.5 | 1881.3 | 1714.0 | 1483.1 | 1227.9 | 962.6  | 705.5 | 497.2 | 343.7 | 18.7 |
| 39°   | 2177.4 | 2127.3 | 2015.1 | 1849.8 | 1596.6 | 1317.8 | 1038.4 | 767.1 | 534.6 | 362.7 | 18.4 |
| 40°   | 2276.5 | 2241.7 | 2124.6 | 1938.7 | 1699.6 | 1402.8 | 1115.1 | 818.0 | 562.5 | 377.2 | 17.7 |
| 41°   | 2385.7 | 2328.0 | 2212.2 | 2025.3 | 1774.4 | 1477.5 | 1163.3 | 851.4 | 584.1 | 386.7 | 17.1 |
| 42°   | 2451.0 | 2403.8 | 2266.3 | 2083.3 | 1827.8 | 1520.2 | 1202.7 | 877.0 | 597.2 | 391.6 | 15.7 |
| 43°   | 2512.0 | 2447.7 | 2313.9 | 2117.1 | 1863.2 | 1550.4 | 1220.7 | 888.8 | 600.2 | 391.6 | 14.1 |
| 44°   | 2503.8 | 2442.8 | 2304.0 | 2121.7 | 1871.1 | 1559.2 | 1228.3 | 889.1 | 595.6 | 386.7 | 12.5 |
| 45°   | 2442.5 | 2381.8 | 2256.8 | 2081.7 | 1842.9 | 1541.8 | 1213.2 | 876.0 | 582.8 | 378.2 | 11.2 |
| 46°   | 2330.0 | 2269.6 | 2173.8 | 2014.8 | 1790.4 | 1502.5 | 1178.1 | 847.5 | 561.5 | 364.4 | 9.8  |
| 47°   | 2207.6 | 2148.9 | 2050.8 | 1906.9 | 1700.9 | 1432.3 | 1127.3 | 807.5 | 531.7 | 344.4 | 8.9  |
| 48°   | 2030.2 | 1993.5 | 1895.1 | 1772.1 | 1576.6 | 1322.4 | 1038.1 | 742.2 | 491.6 | 318.5 | 7.5  |
| 49°   | 1873.4 | 1834.7 | 1748.5 | 1616.3 | 1414.6 | 1194.5 | 931.5  | 662.8 | 439.5 | 289.6 | 6.6  |
| 50°   | 1723.5 | 1689.7 | 1610.0 | 1460.8 | 1268.3 | 1040.0 | 787.5  | 562.8 | 373.9 | 253.9 | 5.6  |
| 51°   | 1576.9 | 1551.7 | 1470.3 | 1333.2 | 1137.8 | 921.3  | 682.2  | 468.7 | 309.0 | 210.6 | 5.2  |
| 52°   | 1429.7 | 1426.7 | 1338.5 | 1199.7 | 1010.8 | 802.9  | 579.9  | 395.5 | 262.1 | 176.8 | 4.9  |
| 53°   | 1271.2 | 1252.2 | 1175.1 | 1050.5 | 869.1  | 679.6  | 491.6  | 333.6 | 225.6 | 150.5 | 4.3  |
| 54°   | 1090.9 | 1069.5 | 986.9  | 874.4  | 710.1  | 556.6  | 396.2  | 269.6 | 187.9 | 127.3 | 3.9  |
| 55°   | 890.1  | 853.7  | 793.7  | 678.3  | 554.6  | 424.7  | 306.0  | 213.5 | 150.2 | 105.9 | 3.3  |
| 56°   | 675.3  | 638.9  | 605.1  | 520.2  | 407.0  | 316.8  | 227.9  | 163.7 | 117.4 | 83.6  | 3.0  |
| 57°   | 469.7  | 467.7  | 412.3  | 347.0  | 272.2  | 215.8  | 156.1  | 115.4 | 83.0  | 64.9  | 2.3  |
| 58°   | 304.7  | 294.5  | 259.1  | 221.4  | 178.1  | 134.8  | 100.4  | 78.4  | 56.4  | 44.3  | 2.0  |
| 59°   | 213.5  | 193.2  | 174.2  | 147.6  | 112.2  | 84.9   | 64.6   | 50.2  | 39.0  | 30.8  | 1.3  |
| 60°   | 131.2  | 126.9  | 114.1  | 89.9   | 72.8   | 60.0   | 48.2   | 37.1  | 28.5  | 22.0  | 0.7  |
| 62.5° | 37.4   | 38.0   | 34.4   | 30.5   | 26.2   | 22.6   | 20.3   | 17.4  | 14.4  | 11.5  | 0.0  |
| 65°   | 8.5    | 8.2    | 8.9    | 8.2    | 7.5    | 7.5    | 6.6    | 5.9   | 5.2   | 4.9   | 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° | 2.6 | 2.6  | 2.3 | 2.3  | 2.3 | 2.0   | 2.0 | 1.6   | 1.6 | 1.3   | 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°    | 24.3  | 24.3 | 24.3   | 24.3 | 24.3   | 24.3 |
| 2.5°  | 25.3  | 23.9 | 23.0   | 22.0 | 21.6   | 21.6 |
| 5°    | 24.6  | 22.6 | 20.7   | 19.7 | 19.0   | 19.0 |
| 7.5°  | 22.6  | 20.3 | 18.4   | 17.4 | 17.1   | 17.1 |
| 10°   | 20.3  | 17.7 | 15.7   | 15.1 | 15.1   | 14.8 |
| 12.5° | 17.7  | 15.1 | 13.8   | 13.4 | 13.4   | 13.4 |
| 15°   | 14.8  | 12.8 | 11.8   | 11.8 | 12.1   | 12.5 |
| 17.5° | 12.5  | 10.5 | 10.2   | 10.8 | 11.5   | 11.5 |
| 20°   | 10.5  | 9.2  | 9.2    | 9.8  | 10.5   | 10.8 |
| 22.5° | 8.9   | 7.9  | 8.2    | 9.2  | 10.2   | 10.5 |
| 25°   | 7.9   | 6.9  | 7.5    | 8.5  | 9.5    | 10.2 |
| 27.5° | 6.6   | 6.2  | 6.9    | 8.2  | 9.5    | 9.8  |
| 30°   | 5.6   | 5.6  | 6.6    | 7.9  | 9.2    | 9.5  |
| 31°   | 5.2   | 5.2  | 6.6    | 7.9  | 9.2    | 9.5  |
| 32°   | 4.9   | 5.2  | 6.2    | 7.9  | 9.2    | 9.5  |
| 33°   | 4.6   | 4.9  | 6.2    | 7.5  | 9.2    | 9.5  |
| 34°   | 4.3   | 4.9  | 6.2    | 7.5  | 9.2    | 9.5  |
| 35°   | 3.9   | 4.9  | 6.2    | 7.5  | 9.2    | 9.5  |
| 36°   | 3.6   | 4.6  | 5.9    | 7.5  | 9.2    | 9.5  |
| 37°   | 3.3   | 4.6  | 5.9    | 7.5  | 9.2    | 9.5  |
| 38°   | 3.0   | 4.3  | 5.9    | 7.5  | 9.2    | 9.5  |
| 39°   | 3.0   | 4.3  | 5.6    | 7.5  | 8.9    | 9.5  |
| 40°   | 2.6   | 3.9  | 5.6    | 7.5  | 8.9    | 9.5  |
| 41°   | 2.3   | 3.9  | 5.6    | 7.2  | 8.9    | 9.5  |
| 42°   | 2.0   | 3.6  | 5.2    | 7.2  | 8.9    | 9.5  |
| 43°   | 1.6   | 3.6  | 5.2    | 7.2  | 8.9    | 9.5  |
| 44°   | 1.6   | 3.3  | 5.2    | 7.2  | 8.9    | 9.5  |
| 45°   | 1.3   | 3.3  | 5.2    | 7.2  | 8.9    | 9.5  |
| 46°   | 1.0   | 3.3  | 5.2    | 7.2  | 8.9    | 9.5  |
| 47°   | 1.0   | 3.0  | 4.9    | 7.2  | 8.9    | 9.5  |
| 48°   | 0.7   | 3.0  | 4.9    | 7.2  | 8.9    | 9.5  |
| 49°   | 0.7   | 3.0  | 4.9    | 7.2  | 8.9    | 9.8  |
| 50°   | 0.7   | 3.0  | 4.9    | 6.9  | 8.9    | 9.8  |
| 51°   | 0.3   | 3.0  | 4.9    | 6.9  | 8.9    | 9.8  |
| 52°   | 0.3   | 3.0  | 4.6    | 6.9  | 9.2    | 9.8  |
| 53°   | 0.3   | 2.6  | 4.6    | 6.9  | 9.2    | 9.8  |
| 54°   | 0.3   | 2.6  | 4.6    | 6.9  | 9.2    | 9.5  |
| 55°   | 0.3   | 2.6  | 4.6    | 6.9  | 8.9    | 9.5  |
| 56°   | 0.3   | 2.3  | 4.6    | 6.9  | 8.9    | 9.5  |
| 57°   | 0.3   | 2.3  | 4.3    | 6.6  | 8.9    | 9.2  |
| 58°   | 0.3   | 2.3  | 4.3    | 6.6  | 8.9    | 9.2  |
| 59°   | 0.3   | 2.3  | 4.3    | 6.6  | 8.5    | 9.2  |
| 60°   | 0.7   | 2.0  | 3.9    | 6.2  | 8.5    | 9.2  |
| 62.5° | 0.7   | 2.0  | 3.9    | 6.2  | 8.2    | 8.9  |
| 65°   | 0.7   | 2.0  | 3.6    | 5.9  | 8.2    | 8.9  |



TEST NUMBER: P1340364

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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.7   | 1.6 | 3.3    | 5.6  | 7.9    | 8.5  |
| 70°   | 0.7   | 2.0 | 3.3    | 5.2  | 7.5    | 8.2  |
| 72.5° | 1.0   | 1.6 | 3.0    | 4.9  | 7.2    | 7.9  |
| 75°   | 1.0   | 1.6 | 3.0    | 4.6  | 6.9    | 7.2  |
| 77.5° | 1.3   | 1.6 | 2.6    | 3.9  | 6.2    | 6.6  |
| 80°   | 1.3   | 1.6 | 2.3    | 3.3  | 5.2    | 5.6  |
| 82.5° | 1.3   | 1.6 | 1.6    | 2.6  | 3.9    | 4.3  |
| 85°   | 1.0   | 1.3 | 1.3    | 1.6  | 2.6    | 3.0  |
| 87.5° | 1.0   | 1.3 | 1.0    | 0.7  | 1.3    | 1.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)