

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P#

Luminaire Tested: **LD4C50D010 EX4C509027 4LBSQLWWLI**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C50D010 EX4C509027 4LBSQLWWLI  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

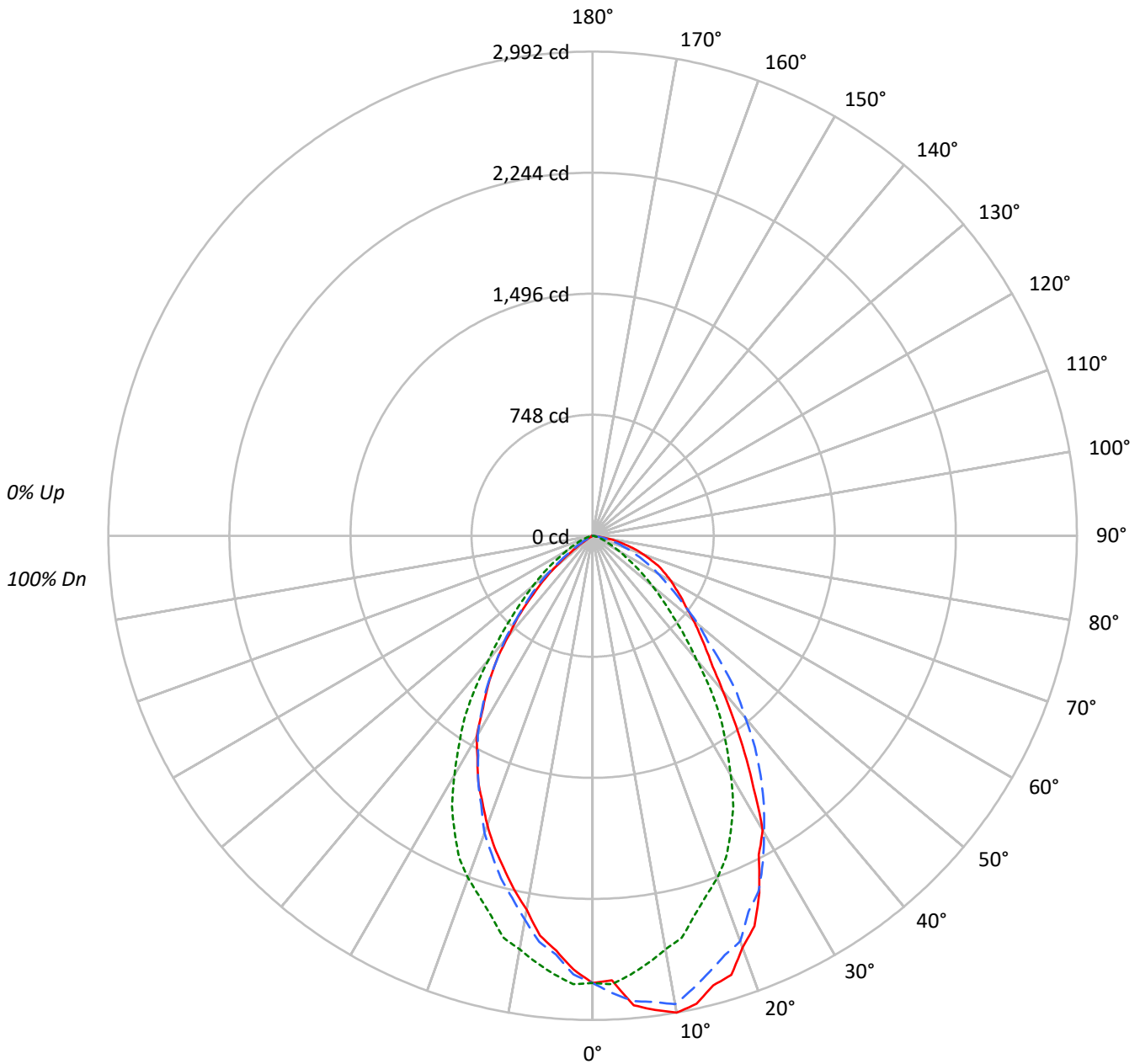
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3961.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
Input Voltage (V):  
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: 25 FT

TEST NUMBER: P#  
CATALOG NUMBER: LD4C50D010 EX4C509027 4LBSQLWWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    | 0  |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    | 100 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |    |    | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |    |    | 72  |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |    |    | 64  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  |    |    | 58  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 53  |    |    | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    | 48  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    | 44  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    | 41  |
| 10  | 62  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 38  |    |    | 38  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 266628 | 266628 | 266628 |
| 5°  | 282088 | 263481 | 249360 |
| 10° | 293148 | 254193 | 229835 |
| 15° | 287291 | 242599 | 212152 |
| 20° | 277969 | 231012 | 195290 |
| 25° | 259282 | 214822 | 178146 |
| 30° | 234051 | 190120 | 159481 |
| 35° | 192801 | 162752 | 132315 |
| 40° | 157346 | 125617 | 101836 |
| 45° | 135187 | 95410  | 73250  |
| 50° | 122355 | 72623  | 46264  |
| 55° | 112592 | 52385  | 16721  |
| 60° | 108068 | 35797  | 2547   |
| 65° | 104384 | 24224  | 776    |
| 70° | 93465  | 16814  | 959    |
| 75° | 76611  | 8649   | 0      |
| 80° | 47898  | 3667   | 0      |
| 85° | 0      | 0      | 0      |



TEST NUMBER: P#

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 258.9  | 6.5       |
| 10°-20°   | 697.5  | 17.6      |
| 20°-30°   | 931.4  | 23.5      |
| 30°-40°   | 884.2  | 22.3      |
| 40°-50°   | 611.2  | 15.4      |
| 50°-60°   | 337.7  | 8.5       |
| 60°-70°   | 167.7  | 4.2       |
| 70°-80°   | 66.1   | 1.7       |
| 80°-90°   | 6.3    | 0.2       |
| 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°    | 1887.9 | 47.7      |
| 0°-40°    | 2772.1 | 70.0      |
| 0°-60°    | 3720.9 | 93.9      |
| 0°-90°    | 3961.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3961.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2763 | 2763 | 2763 | 2763 | 2763 |      |
| 5°  | 2912 | 2886 | 2720 | 2598 | 2574 | 279  |
| 15° | 2876 | 2790 | 2429 | 2190 | 2124 | 814  |
| 25° | 2435 | 2425 | 2018 | 1673 | 1673 | 1110 |
| 35° | 1637 | 1809 | 1382 | 1136 | 1123 | 1025 |
| 45° | 991  | 1136 | 699  | 573  | 537  | 773  |
| 55° | 669  | 630  | 311  | 159  | 99   | 602  |
| 65° | 457  | 331  | 106  | 3    | 3    | 444  |
| 75° | 206  | 126  | 23   | 0    | 0    | 219  |
| 85° | 0    | 3    | 0    | 0    | 0    | 19   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C50D010 EX4C509027 4LBSQLWWLI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 |
| 2.5°  | 2750.0 | 2826.2 | 2832.9 | 2826.2 | 2836.2 | 2832.9 | 2849.5 | 2832.9 | 2852.9 | 2823.0 | 2829.6 |
| 5°    | 2912.4 | 2882.6 | 2945.5 | 2912.4 | 2912.4 | 2909.2 | 2899.2 | 2895.8 | 2909.2 | 2866.1 | 2886.0 |
| 7.5°  | 2955.5 | 2998.6 | 3055.0 | 2985.4 | 2988.6 | 2988.6 | 2968.8 | 2962.2 | 2962.2 | 2882.6 | 2905.8 |
| 10°   | 2992.0 | 2965.4 | 2995.3 | 2968.8 | 2992.0 | 2988.6 | 3001.9 | 2958.8 | 2988.6 | 2942.3 | 2938.9 |
| 12.5° | 2962.2 | 2952.2 | 2992.0 | 2948.9 | 2935.7 | 2938.9 | 2922.4 | 2912.4 | 2922.4 | 2869.3 | 2866.1 |
| 15°   | 2876.0 | 2886.0 | 2945.5 | 2899.2 | 2892.6 | 2886.0 | 2866.1 | 2832.9 | 2859.5 | 2786.5 | 2789.9 |
| 17.5° | 2846.2 | 2829.6 | 2839.6 | 2799.8 | 2809.8 | 2803.1 | 2799.8 | 2770.0 | 2763.3 | 2716.9 | 2716.9 |
| 20°   | 2707.1 | 2743.4 | 2743.4 | 2716.9 | 2716.9 | 2713.7 | 2670.6 | 2697.1 | 2667.2 | 2654.0 | 2667.2 |
| 22.5° | 2610.9 | 2614.3 | 2614.3 | 2591.0 | 2594.4 | 2581.2 | 2557.9 | 2541.3 | 2557.9 | 2541.3 | 2514.8 |
| 25°   | 2435.4 | 2442.0 | 2481.7 | 2438.6 | 2432.0 | 2445.2 | 2425.4 | 2415.4 | 2412.1 | 2372.4 | 2425.4 |
| 27.5° | 2223.3 | 2289.5 | 2286.2 | 2269.6 | 2289.5 | 2263.0 | 2253.1 | 2256.4 | 2266.4 | 2263.0 | 2276.2 |
| 30°   | 2100.7 | 2110.6 | 2120.6 | 2107.3 | 2110.6 | 2100.7 | 2100.7 | 2104.0 | 2130.5 | 2120.6 | 2117.2 |
| 32.5° | 1852.1 | 1885.2 | 1911.9 | 1911.9 | 1915.1 | 1925.1 | 1921.7 | 1991.3 | 2007.9 | 1974.8 | 1968.2 |
| 35°   | 1636.8 | 1660.0 | 1683.1 | 1686.5 | 1729.6 | 1732.8 | 1736.2 | 1756.1 | 1802.4 | 1812.4 | 1809.0 |
| 37.5° | 1431.4 | 1454.5 | 1461.2 | 1491.0 | 1514.2 | 1537.4 | 1564.0 | 1590.4 | 1630.2 | 1663.3 | 1646.8 |
| 40°   | 1249.2 | 1259.0 | 1275.7 | 1288.9 | 1335.2 | 1335.2 | 1348.5 | 1401.6 | 1444.7 | 1471.1 | 1467.8 |
| 42.5° | 1096.8 | 1100.0 | 1113.3 | 1136.5 | 1179.6 | 1169.6 | 1179.6 | 1216.1 | 1278.9 | 1282.3 | 1318.7 |
| 45°   | 990.7  | 987.3  | 997.3  | 1000.6 | 1027.2 | 1040.4 | 1047.1 | 1073.5 | 1126.5 | 1133.1 | 1136.5 |
| 47.5° | 894.7  | 891.3  | 907.9  | 914.5  | 924.4  | 937.6  | 937.6  | 941.0  | 960.9  | 977.5  | 964.2  |
| 50°   | 815.1  | 815.1  | 815.1  | 821.7  | 838.3  | 834.9  | 838.3  | 851.6  | 861.4  | 854.8  | 851.6  |
| 52.5° | 728.9  | 742.1  | 752.1  | 755.5  | 758.7  | 758.7  | 762.1  | 755.5  | 752.1  | 742.1  | 722.3  |
| 55°   | 669.3  | 682.5  | 682.5  | 682.5  | 682.5  | 695.8  | 679.3  | 682.5  | 682.5  | 656.1  | 629.6  |
| 57.5° | 609.7  | 623.0  | 632.8  | 619.6  | 632.8  | 619.6  | 613.0  | 609.7  | 603.0  | 576.5  | 536.8  |
| 60°   | 560.0  | 566.6  | 563.2  | 560.0  | 566.6  | 556.6  | 550.0  | 536.8  | 530.1  | 493.7  | 467.2  |
| 62.5° | 503.7  | 506.9  | 510.3  | 503.7  | 497.0  | 493.7  | 480.4  | 460.6  | 447.3  | 417.5  | 394.2  |
| 65°   | 457.2  | 447.3  | 444.0  | 440.7  | 434.1  | 424.1  | 414.2  | 391.0  | 381.0  | 354.5  | 331.3  |
| 67.5° | 387.6  | 384.4  | 391.0  | 381.0  | 364.5  | 364.5  | 354.5  | 334.7  | 311.4  | 294.9  | 271.7  |
| 70°   | 331.3  | 328.0  | 321.4  | 311.4  | 308.2  | 294.9  | 294.9  | 271.7  | 265.1  | 235.2  | 215.4  |
| 72.5° | 271.7  | 271.7  | 261.7  | 251.8  | 241.8  | 235.2  | 232.0  | 215.4  | 205.5  | 188.9  | 172.3  |
| 75°   | 205.5  | 205.5  | 202.1  | 192.1  | 185.5  | 178.9  | 175.6  | 162.4  | 152.4  | 135.9  | 125.9  |
| 77.5° | 145.8  | 145.8  | 132.5  | 125.9  | 129.2  | 122.5  | 115.9  | 112.7  | 109.3  | 99.4   | 86.2   |
| 80°   | 86.2   | 82.8   | 73.0   | 76.2   | 73.0   | 73.0   | 69.6   | 66.2   | 59.6   | 53.0   | 46.3   |
| 82.5° | 23.2   | 26.5   | 26.5   | 26.5   | 29.9   | 23.2   | 23.2   | 23.2   | 26.5   | 26.5   | 16.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.4    | 3.4    | 3.4    |
| 87.5° | 3.4    | 6.6    | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 10.0   | 10.0   | 10.0   | 6.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P#

CATALOG NUMBER: LD4C50D010 EX4C509027 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 |
| 2.5°  | 2796.5 | 2793.1 | 2796.5 | 2773.3 | 2826.2 | 2786.5 | 2779.9 | 2773.3 | 2796.5 | 2773.3 | 2740.2 |
| 5°    | 2856.1 | 2823.0 | 2813.0 | 2803.1 | 2832.9 | 2786.5 | 2776.7 | 2779.9 | 2763.3 | 2720.3 | 2723.6 |
| 7.5°  | 2876.0 | 2846.2 | 2816.4 | 2753.4 | 2779.9 | 2770.0 | 2743.4 | 2723.6 | 2697.1 | 2660.6 | 2654.0 |
| 10°   | 2882.6 | 2849.5 | 2806.4 | 2786.5 | 2746.8 | 2733.6 | 2723.6 | 2690.5 | 2657.4 | 2594.4 | 2577.8 |
| 12.5° | 2862.7 | 2823.0 | 2770.0 | 2753.4 | 2723.6 | 2680.5 | 2657.4 | 2624.1 | 2594.4 | 2544.7 | 2508.2 |
| 15°   | 2776.7 | 2743.4 | 2726.9 | 2670.6 | 2657.4 | 2630.7 | 2584.4 | 2538.1 | 2495.0 | 2428.6 | 2408.8 |
| 17.5° | 2677.2 | 2664.0 | 2647.4 | 2604.3 | 2601.0 | 2574.5 | 2531.4 | 2491.6 | 2435.4 | 2332.6 | 2299.5 |
| 20°   | 2574.5 | 2574.5 | 2521.4 | 2505.0 | 2538.1 | 2485.0 | 2451.9 | 2415.4 | 2299.5 | 2249.8 | 2190.2 |
| 22.5° | 2498.3 | 2461.9 | 2432.0 | 2405.5 | 2408.8 | 2375.7 | 2329.3 | 2256.4 | 2213.3 | 2153.7 | 2084.1 |
| 25°   | 2349.2 | 2362.4 | 2296.2 | 2286.2 | 2296.2 | 2219.9 | 2196.8 | 2137.1 | 2074.1 | 2017.8 | 1964.8 |
| 27.5° | 2256.4 | 2219.9 | 2176.9 | 2140.5 | 2140.5 | 2110.6 | 2044.4 | 2031.2 | 1935.0 | 1882.0 | 1815.7 |
| 30°   | 2117.2 | 2090.7 | 2054.3 | 2001.3 | 1994.7 | 1971.4 | 1918.5 | 1885.2 | 1785.9 | 1706.4 | 1669.9 |
| 32.5° | 1941.6 | 1931.7 | 1901.9 | 1842.3 | 1822.4 | 1795.8 | 1729.6 | 1673.3 | 1626.9 | 1537.4 | 1494.4 |
| 35°   | 1815.7 | 1779.3 | 1716.4 | 1666.6 | 1650.0 | 1603.7 | 1550.6 | 1510.9 | 1461.2 | 1381.7 | 1325.4 |
| 37.5° | 1626.9 | 1590.4 | 1530.7 | 1471.1 | 1471.1 | 1424.8 | 1351.9 | 1312.1 | 1242.5 | 1196.1 | 1149.7 |
| 40°   | 1461.2 | 1414.8 | 1355.2 | 1285.6 | 1275.7 | 1209.3 | 1179.6 | 1113.3 | 1070.2 | 997.3  | 990.7  |
| 42.5° | 1275.7 | 1232.6 | 1179.6 | 1126.5 | 1086.8 | 1053.7 | 977.5  | 927.8  | 881.4  | 844.9  | 834.9  |
| 45°   | 1106.6 | 1050.3 | 1004.0 | 937.6  | 897.9  | 858.2  | 808.5  | 775.4  | 738.9  | 699.2  | 675.9  |
| 47.5° | 960.9  | 914.5  | 848.2  | 788.6  | 748.9  | 728.9  | 672.6  | 636.2  | 606.3  | 579.9  | 563.2  |
| 50°   | 811.8  | 755.5  | 719.0  | 652.7  | 646.1  | 599.7  | 553.4  | 523.5  | 506.9  | 483.8  | 460.6  |
| 52.5° | 699.2  | 646.1  | 596.4  | 546.8  | 520.2  | 503.7  | 460.6  | 430.7  | 407.6  | 391.0  | 377.7  |
| 55°   | 589.7  | 543.4  | 503.7  | 453.9  | 437.3  | 414.2  | 364.5  | 357.9  | 334.7  | 311.4  | 294.9  |
| 57.5° | 506.9  | 463.8  | 417.5  | 384.4  | 354.5  | 338.0  | 298.2  | 271.7  | 258.5  | 238.6  | 222.0  |
| 60°   | 430.7  | 384.4  | 347.9  | 308.2  | 294.9  | 271.7  | 241.8  | 218.7  | 202.1  | 185.5  | 169.0  |
| 62.5° | 361.1  | 321.4  | 281.7  | 248.5  | 228.6  | 215.4  | 192.1  | 172.3  | 155.8  | 142.5  | 129.2  |
| 65°   | 298.2  | 261.7  | 228.6  | 195.5  | 185.5  | 169.0  | 152.4  | 135.9  | 122.5  | 106.1  | 92.8   |
| 67.5° | 245.2  | 212.1  | 178.9  | 155.8  | 145.8  | 139.2  | 119.3  | 102.7  | 92.8   | 82.8   | 69.6   |
| 70°   | 192.1  | 169.0  | 142.5  | 122.5  | 112.7  | 102.7  | 89.4   | 79.6   | 66.2   | 59.6   | 49.7   |
| 72.5° | 149.2  | 129.2  | 106.1  | 89.4   | 82.8   | 76.2   | 63.0   | 53.0   | 46.3   | 39.7   | 33.1   |
| 75°   | 106.1  | 89.4   | 76.2   | 59.6   | 56.3   | 53.0   | 43.1   | 36.5   | 29.9   | 23.2   | 19.9   |
| 77.5° | 73.0   | 59.6   | 46.3   | 39.7   | 36.5   | 29.9   | 26.5   | 19.9   | 16.6   | 13.2   | 10.0   |
| 80°   | 39.7   | 29.9   | 23.2   | 19.9   | 16.6   | 13.2   | 13.2   | 10.0   | 6.6    | 6.6    | 3.4    |
| 82.5° | 13.2   | 10.0   | 6.6    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 0.0    | 3.4    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 |
| 2.5°  | 2760.0 | 2723.6 | 2733.6 | 2733.6 | 2726.9 | 2726.9 | 2720.3 | 2710.3 | 2713.7 | 2693.7 | 2650.7 |
| 5°    | 2730.2 | 2683.8 | 2677.2 | 2683.8 | 2657.4 | 2650.7 | 2637.5 | 2657.4 | 2597.6 | 2620.9 | 2594.4 |
| 7.5°  | 2644.1 | 2601.0 | 2591.0 | 2614.3 | 2581.2 | 2561.2 | 2557.9 | 2584.4 | 2531.4 | 2505.0 | 2475.1 |
| 10°   | 2547.9 | 2531.4 | 2501.6 | 2485.0 | 2475.1 | 2478.3 | 2451.9 | 2418.8 | 2408.8 | 2402.2 | 2375.7 |
| 12.5° | 2461.9 | 2425.4 | 2398.9 | 2379.0 | 2372.4 | 2372.4 | 2329.3 | 2322.7 | 2292.8 | 2286.2 | 2246.5 |
| 15°   | 2359.1 | 2316.1 | 2299.5 | 2273.0 | 2249.8 | 2263.0 | 2213.3 | 2200.0 | 2190.2 | 2147.1 | 2153.7 |
| 17.5° | 2269.6 | 2223.3 | 2183.5 | 2166.9 | 2147.1 | 2127.2 | 2080.7 | 2090.7 | 2067.5 | 2067.5 | 2007.9 |
| 20°   | 2153.7 | 2104.0 | 2074.1 | 2041.0 | 2041.0 | 2014.5 | 1981.4 | 1984.7 | 1954.8 | 1925.1 | 1872.0 |
| 22.5° | 2031.2 | 1978.1 | 1941.6 | 1928.3 | 1895.2 | 1888.6 | 1848.9 | 1838.9 | 1799.2 | 1802.4 | 1756.1 |
| 25°   | 1901.9 | 1848.9 | 1799.2 | 1802.4 | 1772.7 | 1759.5 | 1736.2 | 1689.9 | 1673.3 | 1653.4 | 1640.2 |
| 27.5° | 1749.5 | 1713.0 | 1669.9 | 1666.6 | 1610.3 | 1613.5 | 1583.8 | 1570.6 | 1530.7 | 1540.7 | 1510.9 |
| 30°   | 1610.3 | 1557.3 | 1517.5 | 1507.6 | 1484.4 | 1477.8 | 1431.4 | 1411.4 | 1418.2 | 1391.6 | 1375.1 |
| 32.5° | 1467.8 | 1388.3 | 1371.7 | 1351.9 | 1338.6 | 1322.0 | 1288.9 | 1302.1 | 1272.3 | 1278.9 | 1252.4 |
| 35°   | 1278.9 | 1245.8 | 1202.7 | 1202.7 | 1189.5 | 1176.2 | 1153.1 | 1166.4 | 1136.5 | 1123.3 | 1096.8 |
| 37.5° | 1119.9 | 1090.2 | 1047.1 | 1060.3 | 1037.1 | 1017.2 | 997.3  | 1000.6 | 974.1  | 970.9  | 944.2  |
| 40°   | 947.6  | 931.0  | 901.3  | 901.3  | 884.7  | 884.7  | 874.7  | 864.8  | 848.2  | 828.3  | 798.5  |
| 42.5° | 785.2  | 772.0  | 758.7  | 762.1  | 738.9  | 758.7  | 732.3  | 748.9  | 695.8  | 692.5  | 672.6  |
| 45°   | 665.9  | 636.2  | 639.4  | 626.2  | 613.0  | 619.6  | 596.4  | 603.0  | 573.2  | 566.6  | 546.8  |
| 47.5° | 540.1  | 530.1  | 510.3  | 503.7  | 503.7  | 493.7  | 483.8  | 480.4  | 467.2  | 450.6  | 424.1  |
| 50°   | 444.0  | 407.6  | 400.9  | 391.0  | 384.4  | 384.4  | 371.1  | 351.3  | 354.5  | 338.0  | 311.4  |
| 52.5° | 347.9  | 318.0  | 304.8  | 301.6  | 288.3  | 281.7  | 265.1  | 251.8  | 241.8  | 235.2  | 218.7  |
| 55°   | 268.3  | 241.8  | 225.4  | 225.4  | 205.5  | 205.5  | 182.3  | 172.3  | 159.0  | 145.8  | 135.9  |
| 57.5° | 202.1  | 188.9  | 172.3  | 159.0  | 152.4  | 135.9  | 122.5  | 106.1  | 96.1   | 76.2   | 63.0   |
| 60°   | 152.4  | 139.2  | 122.5  | 112.7  | 106.1  | 89.4   | 73.0   | 59.6   | 36.5   | 29.9   | 26.5   |
| 62.5° | 112.7  | 99.4   | 82.8   | 76.2   | 69.6   | 56.3   | 39.7   | 19.9   | 10.0   | 10.0   | 10.0   |
| 65°   | 82.8   | 66.2   | 53.0   | 46.3   | 39.7   | 29.9   | 13.2   | 6.6    | 3.4    | 3.4    | 3.4    |
| 67.5° | 56.3   | 43.1   | 29.9   | 26.5   | 19.9   | 10.0   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 70°   | 36.5   | 26.5   | 13.2   | 10.0   | 6.6    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 72.5° | 23.2   | 13.2   | 6.6    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 13.2   | 6.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 6.6    | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.4    | 3.4    | 3.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P#

CATALOG NUMBER: LD4C50D010 EX4C509027 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 |
| 2.5°  | 2697.1 | 2673.8 | 2687.1 | 2657.4 | 2670.6 | 2693.7 | 2677.2 | 2683.8 |
| 5°    | 2604.3 | 2591.0 | 2574.5 | 2531.4 | 2564.5 | 2591.0 | 2577.8 | 2574.5 |
| 7.5°  | 2505.0 | 2458.5 | 2481.7 | 2468.5 | 2461.9 | 2488.3 | 2458.5 | 2491.6 |
| 10°   | 2402.2 | 2369.0 | 2365.8 | 2342.6 | 2342.6 | 2362.4 | 2365.8 | 2345.8 |
| 12.5° | 2249.8 | 2233.3 | 2233.3 | 2229.9 | 2226.5 | 2246.5 | 2249.8 | 2239.9 |
| 15°   | 2140.5 | 2133.8 | 2117.2 | 2114.0 | 2094.1 | 2123.8 | 2127.2 | 2123.8 |
| 17.5° | 2007.9 | 2011.2 | 1994.7 | 1994.7 | 2007.9 | 2017.8 | 1991.3 | 2017.8 |
| 20°   | 1918.5 | 1901.9 | 1895.2 | 1865.4 | 1882.0 | 1898.6 | 1898.6 | 1901.9 |
| 22.5° | 1789.2 | 1762.7 | 1772.7 | 1756.1 | 1746.1 | 1769.3 | 1769.3 | 1779.3 |
| 25°   | 1643.4 | 1643.4 | 1650.0 | 1640.2 | 1646.8 | 1660.0 | 1650.0 | 1673.3 |
| 27.5° | 1504.2 | 1517.5 | 1517.5 | 1504.2 | 1510.9 | 1550.6 | 1567.2 | 1540.7 |
| 30°   | 1375.1 | 1378.3 | 1388.3 | 1381.7 | 1401.6 | 1414.8 | 1411.4 | 1431.4 |
| 32.5° | 1229.3 | 1245.8 | 1252.4 | 1242.5 | 1249.2 | 1278.9 | 1262.4 | 1259.0 |
| 35°   | 1116.6 | 1086.8 | 1083.5 | 1086.8 | 1100.0 | 1106.6 | 1100.0 | 1123.3 |
| 37.5° | 954.2  | 944.2  | 931.0  | 934.4  | 944.2  | 957.6  | 964.2  | 980.7  |
| 40°   | 798.5  | 785.2  | 785.2  | 782.0  | 772.0  | 808.5  | 808.5  | 808.5  |
| 42.5° | 662.7  | 659.3  | 642.8  | 642.8  | 656.1  | 665.9  | 659.3  | 682.5  |
| 45°   | 543.4  | 530.1  | 520.2  | 520.2  | 530.1  | 530.1  | 540.1  | 536.8  |
| 47.5° | 427.5  | 414.2  | 417.5  | 407.6  | 417.5  | 430.7  | 414.2  | 417.5  |
| 50°   | 321.4  | 321.4  | 314.8  | 321.4  | 318.0  | 321.4  | 314.8  | 308.2  |
| 52.5° | 218.7  | 248.5  | 251.8  | 238.6  | 208.7  | 182.3  | 165.6  | 178.9  |
| 55°   | 125.9  | 112.7  | 112.7  | 109.3  | 102.7  | 99.4   | 89.4   | 99.4   |
| 57.5° | 63.0   | 56.3   | 56.3   | 56.3   | 53.0   | 49.7   | 43.1   | 43.1   |
| 60°   | 26.5   | 23.2   | 23.2   | 19.9   | 16.6   | 13.2   | 10.0   | 13.2   |
| 62.5° | 10.0   | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 65°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 67.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 70°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)