

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: P859457

Luminaire Tested: **LX4C70D010 EX4C709030 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C70D010 EX4C709030 4LBLWW\*  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

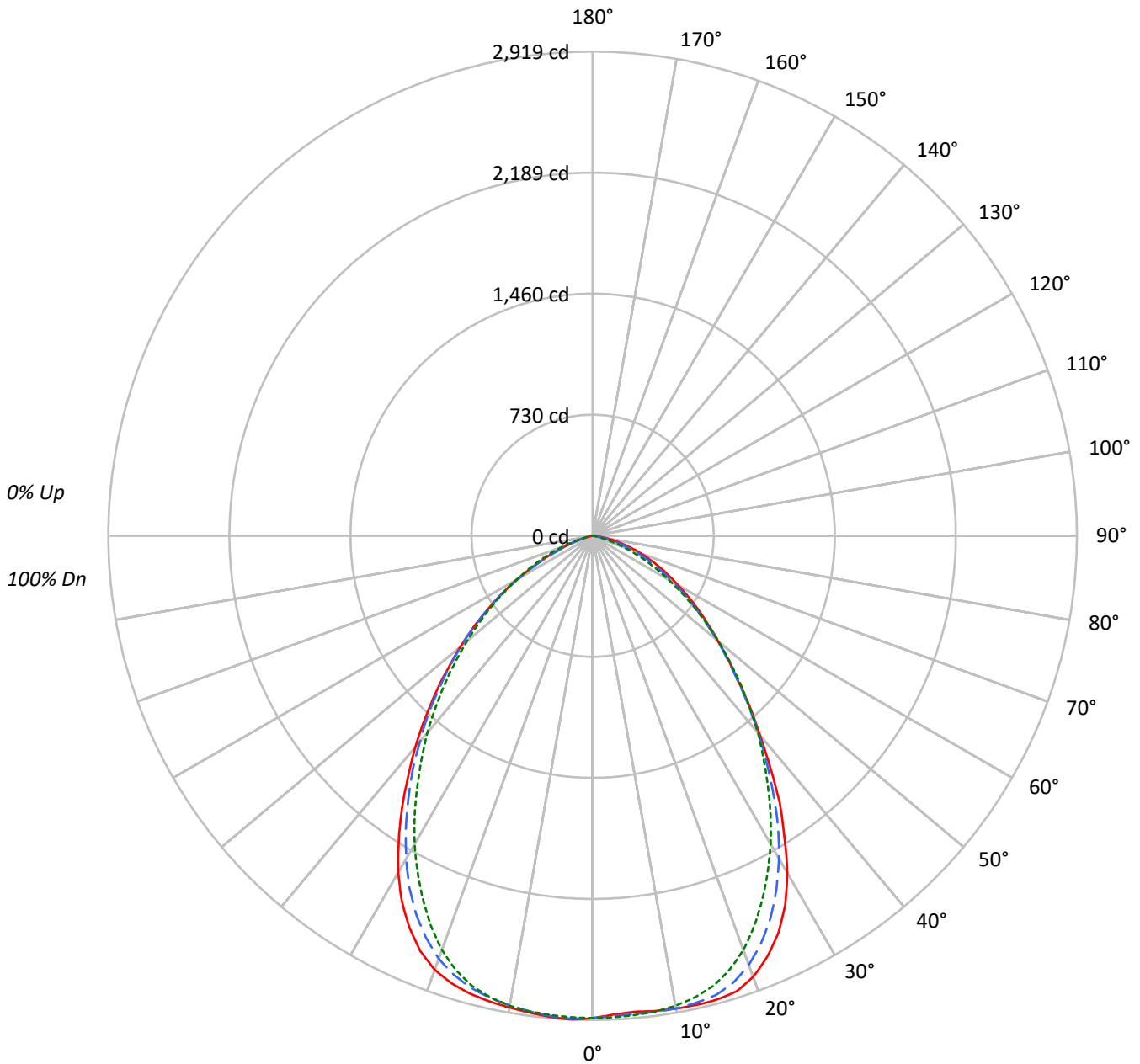
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5575.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 78  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P859457

CATALOG NUMBER: LX4C70D010 EX4C709030 4LBLWW\*

### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 80  | 78  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 65  | 75  | 69  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  | 68  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 76  | 65  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 46  | 70  | 59  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 45  | 54  | 49  | 45  | 43  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 67  | 55  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 41  | 52  | 46  | 41  | 50  | 45  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 41  | 37  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 59  | 47  | 40  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 35  | 45  | 39  | 35  | 44  | 38  | 34  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 357246 | 357246 | 357246 |
| 5°  | 355244 | 357673 | 359017 |
| 10° | 361123 | 358939 | 360312 |
| 15° | 368182 | 357345 | 363323 |
| 20° | 370041 | 347345 | 363896 |
| 25° | 358648 | 328013 | 353768 |
| 30° | 332886 | 304387 | 332276 |
| 35° | 294779 | 276122 | 300358 |
| 40° | 251306 | 248676 | 266365 |
| 45° | 215908 | 218375 | 232031 |
| 50° | 188450 | 188871 | 198886 |
| 55° | 166532 | 159506 | 164882 |
| 60° | 145950 | 130126 | 129586 |
| 65° | 129185 | 100930 | 89825  |
| 70° | 110202 | 69433  | 53341  |
| 75° | 89143  | 37309  | 24351  |
| 80° | 61056  | 9268   | 6155   |
| 85° | 18466  | 3101   | 3101   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 276.4  | 5.0       |
| 10°-20°   | 800.0  | 14.4      |
| 20°-30°   | 1156.0 | 20.7      |
| 30°-40°   | 1195.1 | 21.4      |
| 40°-50°   | 987.4  | 17.7      |
| 50°-60°   | 681.5  | 12.2      |
| 60°-70°   | 356.8  | 6.4       |
| 70°-80°   | 112.3  | 2.0       |
| 80°-90°   | 9.5    | 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°    | 2232.4 | 40.0      |
| 0°-40°    | 3427.5 | 61.5      |
| 0°-60°    | 5096.4 | 91.4      |
| 0°-90°    | 5575.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5575.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2908 | 2908 | 2908 | 2908 | 2908 |      |
| 5°  | 2881 | 2895 | 2900 | 2906 | 2911 | 276  |
| 15° | 2895 | 2868 | 2810 | 2823 | 2857 | 817  |
| 25° | 2646 | 2539 | 2420 | 2517 | 2610 | 1208 |
| 35° | 1966 | 1900 | 1841 | 1937 | 2003 | 1220 |
| 45° | 1243 | 1237 | 1257 | 1315 | 1336 | 969  |
| 55° | 778  | 754  | 745  | 766  | 770  | 698  |
| 65° | 444  | 403  | 347  | 288  | 309  | 440  |
| 75° | 188  | 147  | 79   | 54   | 51   | 201  |
| 85° | 13   | 7    | 2    | 2    | 2    | 27   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°  | 2889.3 | 2890.4 | 2890.4 | 2892.6 | 2892.6 | 2892.6 | 2893.7 | 2893.7 | 2894.8 | 2895.9 | 2897.0 |
| 5°    | 2880.6 | 2880.6 | 2882.8 | 2883.9 | 2886.1 | 2887.2 | 2889.3 | 2890.4 | 2892.6 | 2893.7 | 2894.8 |
| 7.5°  | 2889.3 | 2889.3 | 2890.4 | 2891.5 | 2891.5 | 2892.6 | 2892.6 | 2893.7 | 2894.8 | 2895.9 | 2895.9 |
| 10°   | 2894.8 | 2894.8 | 2894.8 | 2894.8 | 2895.9 | 2895.9 | 2895.9 | 2894.8 | 2894.8 | 2894.8 | 2893.7 |
| 12.5° | 2897.0 | 2897.0 | 2895.9 | 2894.8 | 2895.9 | 2894.8 | 2894.8 | 2891.5 | 2889.3 | 2887.2 | 2883.9 |
| 15°   | 2894.8 | 2894.8 | 2893.7 | 2892.6 | 2891.5 | 2889.3 | 2888.3 | 2882.8 | 2878.4 | 2871.9 | 2867.5 |
| 17.5° | 2880.6 | 2878.4 | 2876.2 | 2874.1 | 2869.7 | 2866.4 | 2864.2 | 2854.4 | 2846.8 | 2835.8 | 2823.8 |
| 20°   | 2830.4 | 2828.2 | 2824.9 | 2819.5 | 2814.0 | 2809.6 | 2803.1 | 2788.9 | 2781.2 | 2764.9 | 2752.9 |
| 22.5° | 2748.5 | 2746.3 | 2747.4 | 2737.6 | 2726.6 | 2720.1 | 2715.7 | 2703.7 | 2690.6 | 2669.9 | 2656.8 |
| 25°   | 2645.8 | 2639.3 | 2639.3 | 2624.0 | 2618.5 | 2614.2 | 2608.7 | 2594.5 | 2574.9 | 2556.3 | 2538.8 |
| 27.5° | 2512.6 | 2503.9 | 2499.5 | 2497.3 | 2484.2 | 2474.4 | 2466.8 | 2455.8 | 2439.5 | 2423.1 | 2399.1 |
| 30°   | 2346.6 | 2345.5 | 2340.1 | 2330.3 | 2320.4 | 2316.1 | 2307.3 | 2288.8 | 2273.5 | 2261.5 | 2246.2 |
| 32.5° | 2151.2 | 2150.1 | 2150.1 | 2150.1 | 2143.5 | 2142.4 | 2129.3 | 2119.5 | 2107.5 | 2088.9 | 2079.1 |
| 35°   | 1965.5 | 1964.5 | 1965.5 | 1949.2 | 1944.8 | 1941.5 | 1940.4 | 1933.9 | 1917.5 | 1908.8 | 1900.0 |
| 37.5° | 1755.9 | 1759.2 | 1757.0 | 1752.6 | 1758.1 | 1748.2 | 1755.9 | 1741.7 | 1735.1 | 1733.0 | 1723.1 |
| 40°   | 1567.0 | 1575.7 | 1567.0 | 1568.1 | 1573.5 | 1563.7 | 1563.7 | 1561.5 | 1557.1 | 1555.0 | 1552.8 |
| 42.5° | 1405.4 | 1394.4 | 1401.0 | 1395.5 | 1401.0 | 1397.7 | 1392.3 | 1395.5 | 1396.6 | 1392.3 | 1391.2 |
| 45°   | 1242.7 | 1244.8 | 1247.0 | 1243.8 | 1243.8 | 1240.5 | 1249.2 | 1243.8 | 1243.8 | 1244.8 | 1237.2 |
| 47.5° | 1110.5 | 1107.3 | 1109.4 | 1107.3 | 1108.3 | 1106.2 | 1108.3 | 1109.4 | 1107.3 | 1107.3 | 1100.7 |
| 50°   | 986.0  | 983.9  | 991.5  | 985.0  | 985.0  | 983.9  | 985.0  | 982.8  | 979.5  | 979.5  | 981.7  |
| 52.5° | 877.9  | 873.6  | 872.5  | 877.9  | 870.3  | 870.3  | 871.4  | 869.2  | 864.8  | 862.7  | 857.2  |
| 55°   | 777.5  | 776.4  | 777.5  | 773.1  | 770.9  | 770.9  | 765.5  | 763.3  | 762.2  | 756.7  | 753.5  |
| 57.5° | 683.6  | 680.3  | 681.4  | 680.3  | 675.9  | 674.8  | 670.5  | 670.5  | 666.1  | 661.7  | 656.3  |
| 60°   | 594.0  | 594.0  | 597.3  | 592.9  | 589.7  | 587.5  | 585.3  | 583.1  | 575.5  | 567.8  | 561.3  |
| 62.5° | 514.3  | 515.4  | 514.3  | 511.0  | 508.9  | 506.7  | 504.5  | 497.9  | 491.4  | 487.0  | 479.4  |
| 65°   | 444.4  | 443.3  | 440.1  | 437.9  | 432.4  | 432.4  | 428.1  | 424.8  | 417.1  | 410.6  | 402.9  |
| 67.5° | 372.4  | 370.2  | 370.2  | 370.2  | 363.6  | 362.5  | 360.3  | 353.8  | 347.2  | 338.5  | 332.0  |
| 70°   | 306.8  | 309.0  | 305.8  | 302.5  | 299.2  | 298.1  | 294.8  | 288.3  | 280.6  | 271.9  | 266.4  |
| 72.5° | 244.6  | 246.8  | 243.5  | 242.4  | 235.9  | 233.7  | 232.6  | 227.1  | 218.4  | 212.9  | 204.2  |
| 75°   | 187.8  | 188.9  | 186.7  | 184.5  | 180.2  | 179.1  | 173.6  | 169.3  | 163.8  | 155.1  | 147.4  |
| 77.5° | 135.4  | 133.2  | 133.2  | 128.9  | 124.5  | 124.5  | 123.4  | 116.8  | 109.2  | 102.6  | 96.1   |
| 80°   | 86.3   | 85.2   | 81.9   | 79.7   | 76.4   | 75.3   | 74.3   | 68.8   | 63.3   | 59.0   | 54.6   |
| 82.5° | 43.7   | 42.6   | 41.5   | 40.4   | 38.2   | 36.0   | 37.1   | 32.8   | 30.6   | 26.2   | 22.9   |
| 85°   | 13.1   | 14.2   | 14.2   | 13.1   | 12.0   | 12.0   | 12.0   | 10.9   | 8.7    | 7.6    | 6.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 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    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°  | 2898.1 | 2899.2 | 2900.3 | 2901.4 | 2901.4 | 2902.5 | 2903.5 | 2904.6 | 2905.7 | 2905.7 | 2906.8 |
| 5°    | 2895.9 | 2898.1 | 2898.1 | 2899.2 | 2899.2 | 2899.2 | 2900.3 | 2900.3 | 2900.3 | 2900.3 | 2901.4 |
| 7.5°  | 2897.0 | 2897.0 | 2897.0 | 2895.9 | 2895.9 | 2894.8 | 2894.8 | 2894.8 | 2892.6 | 2892.6 | 2892.6 |
| 10°   | 2891.5 | 2890.4 | 2889.3 | 2887.2 | 2886.1 | 2885.0 | 2882.8 | 2880.6 | 2878.4 | 2877.3 | 2875.2 |
| 12.5° | 2880.6 | 2876.2 | 2871.9 | 2867.5 | 2865.3 | 2864.2 | 2859.9 | 2856.6 | 2853.3 | 2850.0 | 2847.9 |
| 15°   | 2858.8 | 2852.2 | 2844.6 | 2835.8 | 2833.7 | 2831.5 | 2823.8 | 2817.3 | 2812.9 | 2809.6 | 2804.2 |
| 17.5° | 2815.1 | 2802.0 | 2793.3 | 2780.2 | 2774.7 | 2772.5 | 2760.5 | 2753.9 | 2746.3 | 2744.1 | 2739.7 |
| 20°   | 2737.6 | 2725.6 | 2709.2 | 2697.2 | 2690.6 | 2684.1 | 2674.2 | 2665.5 | 2656.8 | 2656.8 | 2651.3 |
| 22.5° | 2640.4 | 2625.1 | 2604.3 | 2589.1 | 2588.0 | 2574.9 | 2566.1 | 2556.3 | 2553.0 | 2546.5 | 2546.5 |
| 25°   | 2518.1 | 2505.0 | 2482.0 | 2468.9 | 2462.4 | 2459.1 | 2444.9 | 2431.8 | 2425.3 | 2419.8 | 2424.2 |
| 27.5° | 2382.7 | 2363.0 | 2345.5 | 2329.2 | 2323.7 | 2317.2 | 2304.1 | 2298.6 | 2286.6 | 2285.5 | 2284.4 |
| 30°   | 2227.6 | 2208.0 | 2190.5 | 2182.8 | 2171.9 | 2166.5 | 2156.6 | 2150.1 | 2145.7 | 2145.7 | 2143.5 |
| 32.5° | 2064.9 | 2047.4 | 2038.7 | 2022.3 | 2016.9 | 2009.2 | 2002.7 | 1996.1 | 1998.3 | 1996.1 | 1997.2 |
| 35°   | 1889.1 | 1884.7 | 1868.4 | 1858.5 | 1858.5 | 1857.4 | 1846.5 | 1842.2 | 1840.0 | 1841.1 | 1846.5 |
| 37.5° | 1722.0 | 1708.9 | 1698.0 | 1691.5 | 1696.9 | 1690.4 | 1689.3 | 1689.3 | 1695.8 | 1691.5 | 1700.2 |
| 40°   | 1544.0 | 1543.0 | 1538.6 | 1540.8 | 1541.9 | 1534.2 | 1536.4 | 1537.5 | 1541.9 | 1550.6 | 1551.7 |
| 42.5° | 1389.0 | 1387.9 | 1387.9 | 1387.9 | 1385.7 | 1381.3 | 1385.7 | 1393.4 | 1392.3 | 1398.8 | 1404.3 |
| 45°   | 1239.4 | 1237.2 | 1241.6 | 1238.3 | 1244.8 | 1247.0 | 1243.8 | 1245.9 | 1252.5 | 1256.9 | 1265.6 |
| 47.5° | 1102.9 | 1102.9 | 1104.0 | 1106.2 | 1099.6 | 1105.1 | 1107.3 | 1111.6 | 1114.9 | 1117.1 | 1121.5 |
| 50°   | 976.2  | 976.2  | 974.0  | 974.0  | 974.0  | 977.3  | 972.9  | 978.4  | 979.5  | 988.2  | 993.7  |
| 52.5° | 859.4  | 853.9  | 857.2  | 855.0  | 850.6  | 848.5  | 850.6  | 851.7  | 858.3  | 860.5  | 867.0  |
| 55°   | 748.0  | 748.0  | 739.3  | 737.1  | 740.4  | 739.3  | 738.2  | 738.2  | 741.4  | 744.7  | 750.2  |
| 57.5° | 649.7  | 643.2  | 636.6  | 635.5  | 632.2  | 633.3  | 633.3  | 632.2  | 630.1  | 631.2  | 632.2  |
| 60°   | 556.9  | 552.5  | 542.7  | 542.7  | 541.6  | 540.5  | 535.1  | 534.0  | 528.5  | 529.6  | 525.2  |
| 62.5° | 471.7  | 469.5  | 456.4  | 452.1  | 452.1  | 448.8  | 443.3  | 442.2  | 434.6  | 434.6  | 430.2  |
| 65°   | 395.3  | 388.7  | 381.1  | 373.5  | 373.5  | 369.1  | 365.8  | 356.0  | 350.5  | 347.2  | 340.7  |
| 67.5° | 325.4  | 315.6  | 307.9  | 301.4  | 297.0  | 295.9  | 288.3  | 281.7  | 273.0  | 267.5  | 257.7  |
| 70°   | 257.7  | 250.1  | 242.4  | 235.9  | 231.5  | 227.1  | 219.5  | 209.7  | 203.1  | 193.3  | 186.7  |
| 72.5° | 194.4  | 187.8  | 181.3  | 172.5  | 167.1  | 163.8  | 156.2  | 147.4  | 136.5  | 129.9  | 121.2  |
| 75°   | 139.8  | 132.1  | 123.4  | 115.7  | 112.5  | 109.2  | 100.5  | 93.9   | 86.3   | 78.6   | 69.9   |
| 77.5° | 90.6   | 81.9   | 75.3   | 66.6   | 65.5   | 63.3   | 54.6   | 48.0   | 42.6   | 38.2   | 32.8   |
| 80°   | 48.0   | 43.7   | 38.2   | 32.8   | 30.6   | 27.3   | 22.9   | 19.7   | 16.4   | 13.1   | 10.9   |
| 82.5° | 20.7   | 17.5   | 14.2   | 12.0   | 10.9   | 9.8    | 7.6    | 6.6    | 5.5    | 5.5    | 4.4    |
| 85°   | 5.5    | 4.4    | 4.4    | 3.3    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 0.0    | 1.1    | 1.1    | 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: P859457

CATALOG NUMBER: LX4C70D010 EX4C709030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°  | 2907.9 | 2909.0 | 2910.1 | 2910.1 | 2911.2 | 2912.3 | 2912.3 | 2913.4 | 2914.5 | 2915.6 | 2915.6 |
| 5°    | 2902.5 | 2902.5 | 2902.5 | 2903.5 | 2903.5 | 2903.5 | 2903.5 | 2905.7 | 2905.7 | 2906.8 | 2907.9 |
| 7.5°  | 2891.5 | 2891.5 | 2891.5 | 2891.5 | 2890.4 | 2891.5 | 2890.4 | 2890.4 | 2892.6 | 2893.7 | 2894.8 |
| 10°   | 2874.1 | 2873.0 | 2873.0 | 2871.9 | 2871.9 | 2871.9 | 2873.0 | 2874.1 | 2875.2 | 2876.2 | 2879.5 |
| 12.5° | 2846.8 | 2845.7 | 2845.7 | 2844.6 | 2844.6 | 2845.7 | 2846.8 | 2848.9 | 2853.3 | 2855.5 | 2859.9 |
| 15°   | 2803.1 | 2802.0 | 2803.1 | 2804.2 | 2806.4 | 2809.6 | 2812.9 | 2816.2 | 2822.7 | 2828.2 | 2833.7 |
| 17.5° | 2739.7 | 2740.8 | 2741.9 | 2744.1 | 2747.4 | 2751.8 | 2760.5 | 2769.2 | 2776.9 | 2785.6 | 2794.3 |
| 20°   | 2652.4 | 2656.8 | 2657.9 | 2665.5 | 2667.7 | 2677.5 | 2687.3 | 2700.4 | 2712.4 | 2723.4 | 2735.4 |
| 22.5° | 2547.6 | 2550.8 | 2555.2 | 2563.9 | 2569.4 | 2582.5 | 2594.5 | 2609.8 | 2622.9 | 2637.1 | 2654.6 |
| 25°   | 2428.5 | 2429.6 | 2442.7 | 2442.7 | 2455.8 | 2466.8 | 2481.0 | 2497.3 | 2517.0 | 2535.6 | 2547.6 |
| 27.5° | 2293.1 | 2298.6 | 2308.4 | 2312.8 | 2322.6 | 2340.1 | 2352.1 | 2371.8 | 2391.4 | 2407.8 | 2420.9 |
| 30°   | 2151.2 | 2155.5 | 2171.9 | 2174.1 | 2181.8 | 2197.0 | 2213.4 | 2232.0 | 2247.3 | 2265.8 | 2277.8 |
| 32.5° | 2001.6 | 2013.6 | 2023.4 | 2031.1 | 2033.2 | 2056.2 | 2064.9 | 2078.0 | 2095.5 | 2114.1 | 2126.1 |
| 35°   | 1856.3 | 1861.8 | 1876.0 | 1880.4 | 1886.9 | 1900.0 | 1917.5 | 1928.4 | 1937.2 | 1949.2 | 1963.4 |
| 37.5° | 1702.4 | 1718.8 | 1722.0 | 1735.1 | 1737.3 | 1749.3 | 1758.1 | 1771.2 | 1782.1 | 1793.0 | 1795.2 |
| 40°   | 1559.3 | 1564.8 | 1576.8 | 1580.1 | 1582.3 | 1598.6 | 1609.6 | 1612.8 | 1618.3 | 1628.1 | 1641.2 |
| 42.5° | 1414.1 | 1419.6 | 1432.7 | 1429.4 | 1439.2 | 1446.9 | 1452.3 | 1465.4 | 1470.9 | 1474.2 | 1474.2 |
| 45°   | 1271.1 | 1273.2 | 1282.0 | 1286.3 | 1291.8 | 1296.2 | 1306.0 | 1312.5 | 1314.7 | 1324.6 | 1327.8 |
| 47.5° | 1134.6 | 1136.7 | 1143.3 | 1150.9 | 1148.8 | 1154.2 | 1165.1 | 1168.4 | 1169.5 | 1176.0 | 1179.3 |
| 50°   | 1000.2 | 1005.7 | 1014.4 | 1012.3 | 1018.8 | 1022.1 | 1031.9 | 1034.1 | 1034.1 | 1035.2 | 1036.3 |
| 52.5° | 874.7  | 879.0  | 881.2  | 883.4  | 886.7  | 892.1  | 896.5  | 894.3  | 898.7  | 903.1  | 899.8  |
| 55°   | 750.2  | 753.5  | 758.9  | 761.1  | 761.1  | 762.2  | 760.0  | 769.8  | 765.5  | 764.4  | 765.5  |
| 57.5° | 636.6  | 632.2  | 631.2  | 636.6  | 638.8  | 637.7  | 634.4  | 638.8  | 638.8  | 636.6  | 633.3  |
| 60°   | 526.3  | 523.1  | 522.0  | 523.1  | 518.7  | 515.4  | 517.6  | 515.4  | 509.9  | 507.8  | 508.9  |
| 62.5° | 425.9  | 422.6  | 413.9  | 413.9  | 411.7  | 410.6  | 401.8  | 402.9  | 398.6  | 392.0  | 394.2  |
| 65°   | 333.1  | 324.3  | 319.9  | 318.9  | 311.2  | 304.7  | 302.5  | 294.8  | 288.3  | 287.2  | 288.3  |
| 67.5° | 250.1  | 240.2  | 232.6  | 229.3  | 224.9  | 219.5  | 211.8  | 205.3  | 207.5  | 206.4  | 210.7  |
| 70°   | 173.6  | 167.1  | 159.4  | 154.0  | 156.2  | 149.6  | 145.2  | 145.2  | 146.3  | 147.4  | 149.6  |
| 72.5° | 115.7  | 107.0  | 103.7  | 100.5  | 98.3   | 93.9   | 96.1   | 96.1   | 95.0   | 96.1   | 93.9   |
| 75°   | 65.5   | 61.2   | 57.9   | 56.8   | 54.6   | 54.6   | 54.6   | 54.6   | 53.5   | 52.4   | 52.4   |
| 77.5° | 29.5   | 27.3   | 26.2   | 25.1   | 25.1   | 25.1   | 24.0   | 22.9   | 22.9   | 22.9   | 21.8   |
| 80°   | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    |
| 82.5° | 4.4    | 4.4    | 5.5    | 5.5    | 5.5    | 4.4    | 5.5    | 5.5    | 4.4    | 4.4    | 5.5    |
| 85°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 87.5° | 1.1    | 1.1    | 1.1    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 1.1    | 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: P859457

CATALOG NUMBER: LX4C70D010 EX4C709030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5°  | 2916.6 | 2917.7 | 2917.7 | 2917.7 | 2918.8 | 2918.8 | 2918.8 | 2918.8 |
| 5°    | 2909.0 | 2910.1 | 2910.1 | 2910.1 | 2911.2 | 2911.2 | 2911.2 | 2911.2 |
| 7.5°  | 2895.9 | 2897.0 | 2897.0 | 2898.1 | 2898.1 | 2899.2 | 2899.2 | 2900.3 |
| 10°   | 2880.6 | 2882.8 | 2883.9 | 2885.0 | 2886.1 | 2887.2 | 2887.2 | 2888.3 |
| 12.5° | 2864.2 | 2866.4 | 2867.5 | 2869.7 | 2871.9 | 2873.0 | 2874.1 | 2875.2 |
| 15°   | 2840.2 | 2844.6 | 2846.8 | 2847.9 | 2852.2 | 2854.4 | 2855.5 | 2856.6 |
| 17.5° | 2802.0 | 2810.7 | 2814.0 | 2816.2 | 2820.6 | 2824.9 | 2828.2 | 2829.3 |
| 20°   | 2747.4 | 2757.2 | 2761.6 | 2767.0 | 2773.6 | 2779.1 | 2781.2 | 2783.4 |
| 22.5° | 2671.0 | 2681.9 | 2688.4 | 2695.0 | 2700.4 | 2705.9 | 2714.6 | 2711.4 |
| 25°   | 2561.8 | 2580.3 | 2588.0 | 2591.2 | 2603.3 | 2609.8 | 2614.2 | 2609.8 |
| 27.5° | 2439.5 | 2450.4 | 2456.9 | 2464.6 | 2473.3 | 2479.9 | 2482.0 | 2488.6 |
| 30°   | 2292.0 | 2310.6 | 2309.5 | 2317.2 | 2328.1 | 2334.6 | 2336.8 | 2342.3 |
| 32.5° | 2139.2 | 2147.9 | 2154.5 | 2153.4 | 2157.7 | 2169.7 | 2165.4 | 2175.2 |
| 35°   | 1976.5 | 1977.6 | 1988.5 | 1987.4 | 1996.1 | 1996.1 | 1996.1 | 2002.7 |
| 37.5° | 1802.8 | 1815.9 | 1810.5 | 1823.6 | 1819.2 | 1822.5 | 1822.5 | 1824.7 |
| 40°   | 1644.5 | 1648.9 | 1648.9 | 1653.2 | 1656.5 | 1653.2 | 1655.4 | 1660.9 |
| 42.5° | 1480.7 | 1485.1 | 1486.2 | 1484.0 | 1487.3 | 1497.1 | 1489.4 | 1496.0 |
| 45°   | 1327.8 | 1331.1 | 1335.5 | 1332.2 | 1337.7 | 1334.4 | 1337.7 | 1335.5 |
| 47.5° | 1183.7 | 1182.6 | 1181.5 | 1190.2 | 1182.6 | 1183.7 | 1188.1 | 1180.4 |
| 50°   | 1036.3 | 1042.8 | 1038.5 | 1041.7 | 1043.9 | 1043.9 | 1040.6 | 1040.6 |
| 52.5° | 905.2  | 904.1  | 900.9  | 904.1  | 902.0  | 903.1  | 905.2  | 903.1  |
| 55°   | 769.8  | 774.2  | 772.0  | 770.9  | 772.0  | 772.0  | 778.6  | 769.8  |
| 57.5° | 636.6  | 634.4  | 637.7  | 645.4  | 637.7  | 643.2  | 646.4  | 647.5  |
| 60°   | 509.9  | 509.9  | 516.5  | 513.2  | 519.8  | 525.2  | 529.6  | 527.4  |
| 62.5° | 388.7  | 394.2  | 396.4  | 397.5  | 404.0  | 408.4  | 408.4  | 407.3  |
| 65°   | 288.3  | 295.9  | 295.9  | 300.3  | 302.5  | 302.5  | 304.7  | 309.0  |
| 67.5° | 212.9  | 212.9  | 214.0  | 216.2  | 215.1  | 215.1  | 217.3  | 218.4  |
| 70°   | 148.5  | 146.3  | 149.6  | 148.5  | 148.5  | 147.4  | 148.5  | 148.5  |
| 72.5° | 93.9   | 93.9   | 95.0   | 93.9   | 91.7   | 92.8   | 92.8   | 95.0   |
| 75°   | 50.2   | 52.4   | 50.2   | 50.2   | 51.3   | 49.1   | 50.2   | 51.3   |
| 77.5° | 20.7   | 20.7   | 20.7   | 20.7   | 20.7   | 19.7   | 19.7   | 19.7   |
| 80°   | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 8.7    | 8.7    |
| 82.5° | 4.4    | 5.5    | 4.4    | 5.5    | 4.4    | 4.4    | 4.4    | 4.4    |
| 85°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 87.5° | 0.0    | 1.1    | 0.0    | 1.1    | 0.0    | 0.0    | 0.0    | 1.1    |
| 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)