

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: P246179

Luminaire Tested: **LD8B50D010 ER8B50827 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50827 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5177.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

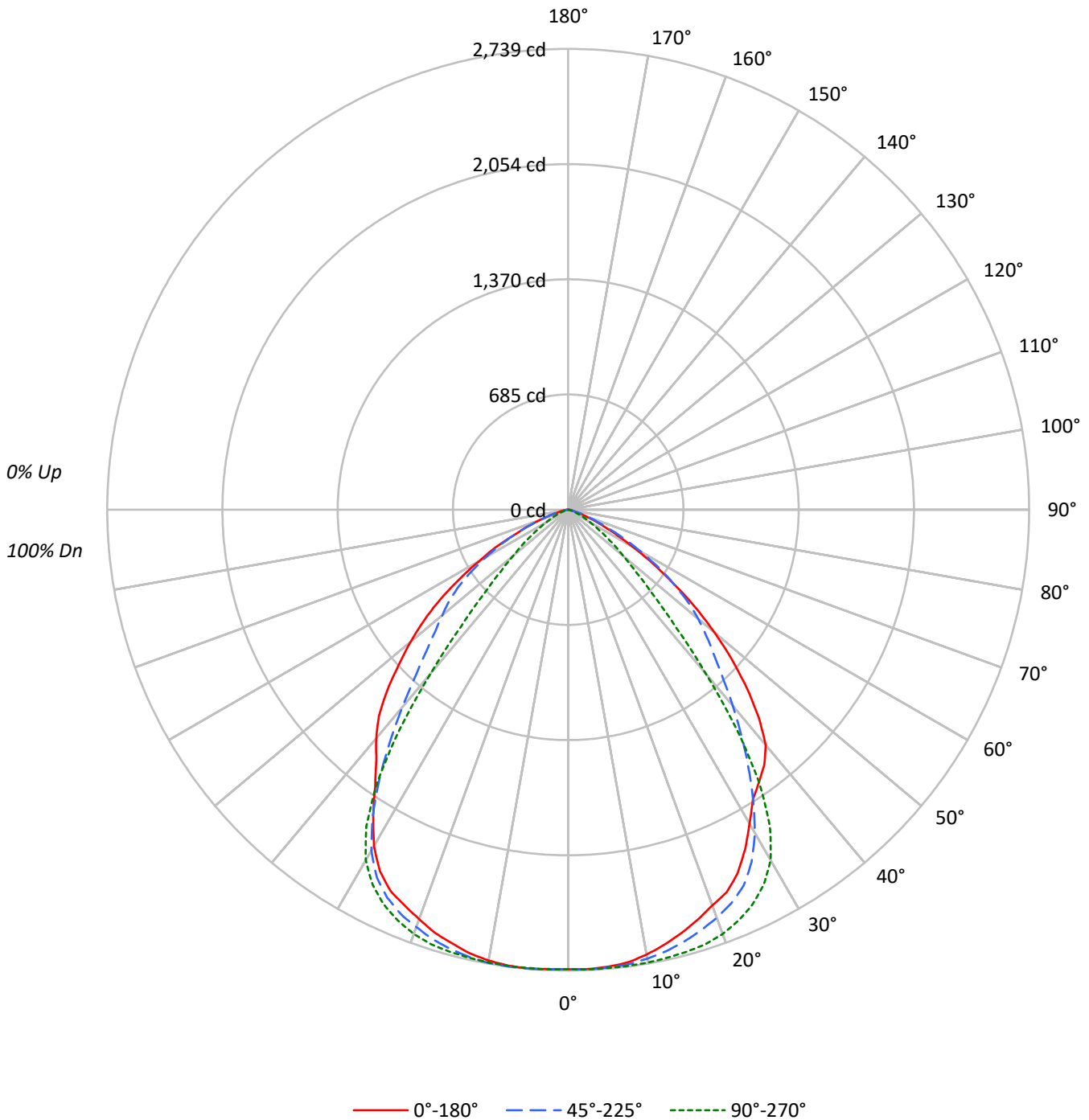
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |     |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 90  |    |    |    |    | 90  |   |  |   |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |    |    |    |    | 79  |   |  |   |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |    |    |    |    | 62  |   |  |   |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |    |    |    |    | 55  |   |  |   |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |    |    |    |    | 50  |   |  |   |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 41  |    |    |    |    | 41  |   |  |   |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 84229 | 84229 | 84229 |
| 5°  | 84415 | 84641 | 84734 |
| 10° | 84060 | 85576 | 85206 |
| 15° | 83127 | 86827 | 85189 |
| 20° | 82130 | 88047 | 84969 |
| 25° | 81062 | 88146 | 85053 |
| 30° | 76690 | 85670 | 82173 |
| 35° | 74400 | 74456 | 75228 |
| 40° | 73480 | 51227 | 71415 |
| 45° | 65475 | 30753 | 66369 |
| 50° | 54440 | 20470 | 58661 |
| 55° | 40832 | 14112 | 49735 |
| 60° | 27673 | 9405  | 37528 |
| 65° | 16687 | 6100  | 25779 |
| 70° | 9250  | 3309  | 15859 |
| 75° | 4194  | 1394  | 8209  |
| 80° | 3640  | 1563  | 5736  |
| 85° | 4140  | 2052  | 5696  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 260.7  | 5.0       |
| 10°-20°   | 757.1  | 14.6      |
| 20°-30°   | 1149.1 | 22.2      |
| 30°-40°   | 1206.9 | 23.3      |
| 40°-50°   | 904.8  | 17.5      |
| 50°-60°   | 580.6  | 11.2      |
| 60°-70°   | 248.4  | 4.8       |
| 70°-80°   | 58.7   | 1.1       |
| 80°-90°   | 10.9   | 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°    | 2166.8 | 41.9      |
| 0°-40°    | 3373.7 | 65.2      |
| 0°-60°    | 4859.1 | 93.9      |
| 0°-90°    | 5177.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5177.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2732 | 2732 | 2732 | 2732 | 2732 |      |
| 5°  | 2727 | 2732 | 2734 | 2739 | 2737 | 259  |
| 15° | 2604 | 2658 | 2720 | 2702 | 2668 | 734  |
| 25° | 2382 | 2466 | 2591 | 2544 | 2500 | 1088 |
| 35° | 1976 | 1866 | 1978 | 1954 | 1998 | 1240 |
| 45° | 1501 | 1227 | 705  | 1192 | 1522 | 1150 |
| 55° | 760  | 760  | 262  | 792  | 925  | 689  |
| 65° | 229  | 270  | 84   | 348  | 353  | 244  |
| 75° | 35   | 41   | 12   | 70   | 69   | 51   |
| 85° | 12   | 7    | 6    | 12   | 16   | 12   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 |
| 2.5°  | 2733.0 | 2735.9 | 2734.4 | 2734.4 | 2733.0 | 2734.4 | 2734.4 | 2737.4 | 2737.4 | 2734.4 | 2733.0 |
| 5°    | 2727.1 | 2730.0 | 2730.0 | 2727.1 | 2727.1 | 2734.4 | 2730.0 | 2733.0 | 2733.0 | 2731.5 | 2731.5 |
| 7.5°  | 2713.9 | 2713.9 | 2719.8 | 2715.4 | 2715.4 | 2719.8 | 2718.3 | 2721.2 | 2724.2 | 2725.6 | 2725.6 |
| 10°   | 2684.6 | 2687.5 | 2689.0 | 2689.0 | 2690.4 | 2694.8 | 2697.8 | 2703.6 | 2706.6 | 2709.5 | 2711.0 |
| 12.5° | 2647.9 | 2652.3 | 2653.8 | 2652.3 | 2656.7 | 2662.6 | 2669.9 | 2677.2 | 2681.7 | 2687.5 | 2691.9 |
| 15°   | 2603.9 | 2603.9 | 2606.9 | 2611.3 | 2614.2 | 2623.0 | 2630.3 | 2639.1 | 2650.8 | 2658.2 | 2665.5 |
| 17.5° | 2555.6 | 2558.5 | 2562.9 | 2562.9 | 2568.8 | 2583.4 | 2587.8 | 2601.0 | 2614.2 | 2621.5 | 2636.2 |
| 20°   | 2502.8 | 2505.7 | 2510.1 | 2513.0 | 2520.4 | 2532.1 | 2540.9 | 2552.6 | 2567.3 | 2580.5 | 2595.1 |
| 22.5° | 2461.7 | 2455.9 | 2458.8 | 2461.7 | 2469.1 | 2479.3 | 2489.6 | 2504.2 | 2518.9 | 2532.1 | 2546.8 |
| 25°   | 2382.5 | 2384.0 | 2388.4 | 2391.3 | 2400.1 | 2408.9 | 2420.7 | 2438.2 | 2451.4 | 2466.1 | 2482.2 |
| 27.5° | 2275.5 | 2277.0 | 2284.3 | 2284.3 | 2291.6 | 2306.3 | 2313.6 | 2328.3 | 2345.9 | 2360.5 | 2379.6 |
| 30°   | 2153.8 | 2156.7 | 2156.7 | 2162.6 | 2167.0 | 2174.3 | 2181.7 | 2196.3 | 2205.1 | 2218.3 | 2244.7 |
| 32.5° | 2042.4 | 2045.3 | 2043.8 | 2042.4 | 2038.0 | 2036.5 | 2035.0 | 2038.0 | 2040.9 | 2045.3 | 2055.6 |
| 35°   | 1976.4 | 1969.1 | 1963.2 | 1953.0 | 1941.2 | 1926.6 | 1913.4 | 1895.8 | 1879.6 | 1866.4 | 1851.8 |
| 37.5° | 1913.4 | 1911.9 | 1903.1 | 1888.4 | 1865.0 | 1838.6 | 1807.8 | 1769.7 | 1731.5 | 1690.5 | 1650.9 |
| 40°   | 1825.4 | 1821.0 | 1813.7 | 1793.1 | 1766.7 | 1734.5 | 1693.4 | 1646.5 | 1584.9 | 1521.9 | 1457.4 |
| 42.5° | 1675.8 | 1677.3 | 1668.5 | 1652.4 | 1627.5 | 1596.7 | 1554.1 | 1502.8 | 1436.9 | 1362.1 | 1278.5 |
| 45°   | 1501.4 | 1501.4 | 1498.4 | 1485.2 | 1467.6 | 1442.7 | 1410.5 | 1367.9 | 1303.4 | 1227.2 | 1137.7 |
| 47.5° | 1319.6 | 1321.0 | 1316.6 | 1313.7 | 1306.4 | 1290.2 | 1266.8 | 1234.5 | 1189.1 | 1115.7 | 1026.3 |
| 50°   | 1134.8 | 1134.8 | 1142.2 | 1140.7 | 1140.7 | 1134.8 | 1124.6 | 1105.5 | 1065.9 | 1007.3 | 923.7  |
| 52.5° | 950.1  | 953.0  | 957.4  | 963.3  | 970.6  | 982.3  | 970.6  | 961.8  | 936.9  | 891.4  | 819.6  |
| 55°   | 759.5  | 762.4  | 769.7  | 780.0  | 788.8  | 800.5  | 803.5  | 803.5  | 790.3  | 759.5  | 705.2  |
| 57.5° | 596.7  | 592.3  | 598.2  | 607.0  | 618.7  | 630.5  | 639.3  | 649.5  | 648.0  | 627.5  | 583.5  |
| 60°   | 448.7  | 450.1  | 454.5  | 463.3  | 472.1  | 482.4  | 494.1  | 502.9  | 507.3  | 497.0  | 469.2  |
| 62.5° | 327.0  | 327.0  | 332.8  | 341.6  | 346.0  | 360.7  | 368.0  | 372.4  | 376.8  | 375.3  | 357.7  |
| 65°   | 228.7  | 231.6  | 234.6  | 239.0  | 243.4  | 252.2  | 256.6  | 265.4  | 268.3  | 269.8  | 256.6  |
| 67.5° | 161.3  | 156.9  | 159.8  | 162.7  | 167.1  | 173.0  | 181.8  | 181.8  | 186.2  | 186.2  | 177.4  |
| 70°   | 102.6  | 102.6  | 104.1  | 108.5  | 111.4  | 112.9  | 115.8  | 118.7  | 123.2  | 121.7  | 121.7  |
| 72.5° | 68.9   | 67.4   | 68.9   | 70.4   | 71.9   | 76.2   | 76.2   | 77.7   | 80.6   | 82.1   | 76.2   |
| 75°   | 35.2   | 36.7   | 39.6   | 38.1   | 42.5   | 39.6   | 41.0   | 45.5   | 44.0   | 41.0   | 41.0   |
| 77.5° | 29.3   | 29.3   | 29.3   | 27.9   | 30.8   | 30.8   | 29.3   | 32.3   | 30.8   | 30.8   | 29.3   |
| 80°   | 20.5   | 22.0   | 20.5   | 19.1   | 20.5   | 19.1   | 19.1   | 19.1   | 19.1   | 19.1   | 17.6   |
| 82.5° | 16.1   | 13.2   | 14.7   | 13.2   | 14.7   | 14.7   | 13.2   | 11.7   | 11.7   | 13.2   | 11.7   |
| 85°   | 11.7   | 8.8    | 10.3   | 10.3   | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 7.3    | 7.3    |
| 87.5° | 7.3    | 4.4    | 4.4    | 4.4    | 5.8    | 5.8    | 5.8    | 4.4    | 5.8    | 5.8    | 2.9    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 |
| 2.5°  | 2735.9 | 2734.4 | 2737.4 | 2735.9 | 2735.9 | 2734.4 | 2735.9 | 2734.4 | 2737.4 | 2731.5 | 2733.0 |
| 5°    | 2735.9 | 2733.0 | 2734.4 | 2735.9 | 2737.4 | 2734.4 | 2734.4 | 2734.4 | 2737.4 | 2734.4 | 2735.9 |
| 7.5°  | 2730.0 | 2728.5 | 2733.0 | 2735.9 | 2734.4 | 2733.0 | 2735.9 | 2734.4 | 2737.4 | 2735.9 | 2738.8 |
| 10°   | 2718.3 | 2719.8 | 2722.7 | 2727.1 | 2728.5 | 2730.0 | 2733.0 | 2733.0 | 2737.4 | 2731.5 | 2734.4 |
| 12.5° | 2700.7 | 2706.6 | 2713.9 | 2716.8 | 2722.7 | 2722.7 | 2725.6 | 2727.1 | 2730.0 | 2728.5 | 2733.0 |
| 15°   | 2678.7 | 2686.0 | 2694.8 | 2702.2 | 2709.5 | 2713.9 | 2718.3 | 2719.8 | 2724.2 | 2719.8 | 2721.2 |
| 17.5° | 2652.3 | 2661.1 | 2674.3 | 2683.1 | 2694.8 | 2699.2 | 2705.1 | 2708.0 | 2712.4 | 2709.5 | 2711.0 |
| 20°   | 2615.6 | 2625.9 | 2640.6 | 2653.8 | 2661.1 | 2671.4 | 2678.7 | 2683.1 | 2686.0 | 2683.1 | 2684.6 |
| 22.5° | 2564.3 | 2579.0 | 2598.1 | 2608.3 | 2623.0 | 2631.8 | 2633.3 | 2643.5 | 2650.8 | 2643.5 | 2646.5 |
| 25°   | 2504.2 | 2518.9 | 2533.6 | 2555.6 | 2568.8 | 2579.0 | 2589.3 | 2590.7 | 2598.1 | 2596.6 | 2595.1 |
| 27.5° | 2404.5 | 2423.6 | 2448.5 | 2466.1 | 2483.7 | 2499.8 | 2511.6 | 2514.5 | 2521.8 | 2518.9 | 2520.4 |
| 30°   | 2268.2 | 2288.7 | 2312.2 | 2340.0 | 2365.0 | 2381.1 | 2395.7 | 2406.0 | 2413.3 | 2408.9 | 2407.5 |
| 32.5° | 2074.7 | 2095.2 | 2120.1 | 2147.9 | 2177.3 | 2200.7 | 2218.3 | 2231.5 | 2240.3 | 2237.4 | 2230.1 |
| 35°   | 1853.3 | 1859.1 | 1875.3 | 1897.2 | 1922.1 | 1947.1 | 1963.2 | 1977.9 | 1988.1 | 1991.1 | 1991.1 |
| 37.5° | 1626.0 | 1606.9 | 1595.2 | 1595.2 | 1609.9 | 1620.1 | 1634.8 | 1643.6 | 1659.7 | 1665.6 | 1670.0 |
| 40°   | 1406.0 | 1362.1 | 1321.0 | 1290.2 | 1269.7 | 1268.3 | 1268.3 | 1272.6 | 1287.3 | 1306.4 | 1324.0 |
| 42.5° | 1209.6 | 1139.2 | 1076.2 | 1019.0 | 978.0  | 954.5  | 944.2  | 945.7  | 957.4  | 975.0  | 1004.3 |
| 45°   | 1052.7 | 964.8  | 885.6  | 816.7  | 760.9  | 724.3  | 706.7  | 705.2  | 714.0  | 734.5  | 766.8  |
| 47.5° | 931.0  | 837.2  | 747.7  | 668.6  | 608.5  | 568.9  | 548.3  | 542.5  | 548.3  | 567.4  | 605.5  |
| 50°   | 829.9  | 733.1  | 640.7  | 558.6  | 494.1  | 453.1  | 434.0  | 426.7  | 434.0  | 450.1  | 488.2  |
| 52.5° | 736.0  | 636.3  | 549.8  | 470.6  | 401.7  | 366.5  | 346.0  | 341.6  | 346.0  | 365.1  | 395.9  |
| 55°   | 627.5  | 542.5  | 457.4  | 378.3  | 318.2  | 283.0  | 266.8  | 262.5  | 266.8  | 284.5  | 316.7  |
| 57.5° | 520.5  | 447.2  | 372.4  | 300.6  | 249.3  | 218.4  | 203.8  | 197.9  | 208.2  | 219.9  | 258.0  |
| 60°   | 420.8  | 362.2  | 299.1  | 236.1  | 193.5  | 165.7  | 153.9  | 152.5  | 155.4  | 170.1  | 196.5  |
| 62.5° | 329.9  | 281.5  | 231.6  | 180.3  | 145.2  | 133.4  | 118.7  | 117.3  | 120.2  | 129.0  | 149.6  |
| 65°   | 237.5  | 206.7  | 168.6  | 131.9  | 104.1  | 88.0   | 82.1   | 83.6   | 86.5   | 92.4   | 111.4  |
| 67.5° | 165.7  | 143.7  | 117.3  | 92.4   | 71.9   | 64.5   | 58.7   | 57.2   | 58.7   | 68.9   | 79.2   |
| 70°   | 111.4  | 98.2   | 79.2   | 70.4   | 49.9   | 39.6   | 41.0   | 36.7   | 42.5   | 42.5   | 51.3   |
| 72.5° | 73.3   | 64.5   | 52.8   | 41.0   | 35.2   | 27.9   | 27.9   | 26.4   | 29.3   | 30.8   | 38.1   |
| 75°   | 38.1   | 29.3   | 29.3   | 20.5   | 14.7   | 7.3    | 13.2   | 11.7   | 10.3   | 11.7   | 14.7   |
| 77.5° | 26.4   | 22.0   | 20.5   | 16.1   | 14.7   | 11.7   | 11.7   | 11.7   | 11.7   | 13.2   | 14.7   |
| 80°   | 16.1   | 16.1   | 11.7   | 10.3   | 8.8    | 7.3    | 8.8    | 8.8    | 8.8    | 8.8    | 10.3   |
| 82.5° | 10.3   | 8.8    | 8.8    | 7.3    | 7.3    | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 8.8    |
| 85°   | 8.8    | 5.8    | 5.8    | 4.4    | 5.8    | 10.3   | 4.4    | 5.8    | 5.8    | 5.8    | 4.4    |
| 87.5° | 2.9    | 4.4    | 4.4    | 4.4    | 2.9    | 1.5    | 2.9    | 4.4    | 4.4    | 7.3    | 5.8    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 | 2731.5 |
| 2.5°  | 2735.9 | 2737.4 | 2737.4 | 2735.9 | 2735.9 | 2733.0 | 2738.8 | 2734.4 | 2735.9 | 2741.7 | 2737.4 |
| 5°    | 2738.8 | 2740.3 | 2740.3 | 2738.8 | 2738.8 | 2738.8 | 2740.3 | 2740.3 | 2738.8 | 2737.4 | 2740.3 |
| 7.5°  | 2744.7 | 2743.2 | 2743.2 | 2740.3 | 2740.3 | 2737.4 | 2740.3 | 2735.9 | 2738.8 | 2735.9 | 2740.3 |
| 10°   | 2737.4 | 2738.8 | 2737.4 | 2735.9 | 2735.9 | 2734.4 | 2734.4 | 2730.0 | 2731.5 | 2727.1 | 2730.0 |
| 12.5° | 2733.0 | 2731.5 | 2731.5 | 2728.5 | 2725.6 | 2722.7 | 2721.2 | 2716.8 | 2716.8 | 2706.6 | 2711.0 |
| 15°   | 2721.2 | 2722.7 | 2718.3 | 2712.4 | 2709.5 | 2702.2 | 2699.2 | 2693.4 | 2687.5 | 2680.2 | 2681.7 |
| 17.5° | 2711.0 | 2706.6 | 2700.7 | 2694.8 | 2683.1 | 2677.2 | 2671.4 | 2662.6 | 2659.6 | 2650.8 | 2647.9 |
| 20°   | 2680.2 | 2677.2 | 2669.9 | 2659.6 | 2652.3 | 2639.1 | 2633.3 | 2624.5 | 2617.1 | 2608.3 | 2603.9 |
| 22.5° | 2640.6 | 2637.6 | 2628.8 | 2618.6 | 2606.9 | 2601.0 | 2595.1 | 2579.0 | 2571.7 | 2562.9 | 2561.4 |
| 25°   | 2590.7 | 2586.3 | 2577.5 | 2565.8 | 2559.9 | 2543.8 | 2537.9 | 2526.2 | 2523.3 | 2514.5 | 2513.0 |
| 27.5° | 2514.5 | 2508.6 | 2498.4 | 2483.7 | 2473.4 | 2463.2 | 2457.3 | 2448.5 | 2445.6 | 2436.8 | 2435.3 |
| 30°   | 2400.1 | 2392.8 | 2372.3 | 2366.4 | 2348.8 | 2338.5 | 2338.5 | 2326.8 | 2328.3 | 2322.4 | 2322.4 |
| 32.5° | 2219.8 | 2208.1 | 2191.9 | 2180.2 | 2168.5 | 2162.6 | 2162.6 | 2158.2 | 2161.1 | 2161.1 | 2164.1 |
| 35°   | 1980.8 | 1964.7 | 1955.9 | 1948.6 | 1948.6 | 1954.4 | 1972.0 | 1976.4 | 1985.2 | 1992.5 | 1998.4 |
| 37.5° | 1674.4 | 1672.9 | 1683.2 | 1692.0 | 1714.0 | 1738.9 | 1769.7 | 1796.1 | 1821.0 | 1838.6 | 1856.2 |
| 40°   | 1343.0 | 1379.7 | 1409.0 | 1450.1 | 1483.8 | 1532.1 | 1587.9 | 1633.3 | 1675.8 | 1706.6 | 1738.9 |
| 42.5° | 1048.3 | 1095.2 | 1156.8 | 1216.9 | 1277.0 | 1343.0 | 1416.3 | 1479.4 | 1535.1 | 1577.6 | 1611.3 |
| 45°   | 816.7  | 881.2  | 956.0  | 1032.2 | 1109.9 | 1192.0 | 1268.3 | 1332.8 | 1391.4 | 1435.4 | 1469.1 |
| 47.5° | 658.3  | 728.7  | 813.7  | 897.3  | 985.3  | 1071.8 | 1156.8 | 1212.5 | 1260.9 | 1296.1 | 1326.9 |
| 50°   | 543.9  | 618.7  | 708.2  | 803.5  | 891.4  | 978.0  | 1051.2 | 1105.5 | 1145.1 | 1175.9 | 1194.9 |
| 52.5° | 454.5  | 533.7  | 629.0  | 724.3  | 812.2  | 891.4  | 957.4  | 998.5  | 1030.7 | 1052.7 | 1070.3 |
| 55°   | 375.3  | 451.6  | 541.0  | 630.5  | 717.0  | 791.7  | 846.0  | 876.8  | 901.7  | 914.9  | 925.1  |
| 57.5° | 306.4  | 376.8  | 458.9  | 541.0  | 615.8  | 677.4  | 719.9  | 750.7  | 762.4  | 772.7  | 771.2  |
| 60°   | 240.5  | 306.4  | 381.2  | 451.6  | 516.1  | 565.9  | 596.7  | 614.3  | 623.1  | 627.5  | 624.6  |
| 62.5° | 189.1  | 249.3  | 306.4  | 368.0  | 414.9  | 457.4  | 486.8  | 486.8  | 491.2  | 492.6  | 497.0  |
| 65°   | 140.7  | 186.2  | 236.1  | 281.5  | 319.6  | 347.5  | 363.6  | 368.0  | 373.9  | 372.4  | 369.5  |
| 67.5° | 104.1  | 137.8  | 174.5  | 208.2  | 234.6  | 252.2  | 263.9  | 274.2  | 272.7  | 269.8  | 268.3  |
| 70°   | 71.9   | 93.8   | 126.1  | 146.6  | 165.7  | 183.3  | 186.2  | 187.7  | 189.1  | 190.6  | 187.7  |
| 72.5° | 49.9   | 66.0   | 83.6   | 101.2  | 112.9  | 120.2  | 127.6  | 129.0  | 129.0  | 129.0  | 127.6  |
| 75°   | 24.9   | 33.7   | 49.9   | 57.2   | 67.4   | 70.4   | 76.2   | 76.2   | 80.6   | 74.8   | 73.3   |
| 77.5° | 22.0   | 26.4   | 35.2   | 41.0   | 45.5   | 49.9   | 51.3   | 55.7   | 54.2   | 51.3   | 52.8   |
| 80°   | 13.2   | 16.1   | 22.0   | 24.9   | 30.8   | 32.3   | 33.7   | 35.2   | 33.7   | 35.2   | 35.2   |
| 82.5° | 10.3   | 11.7   | 14.7   | 14.7   | 19.1   | 19.1   | 20.5   | 20.5   | 22.0   | 22.0   | 22.0   |
| 85°   | 5.8    | 10.3   | 8.8    | 17.6   | 11.7   | 11.7   | 14.7   | 17.6   | 14.7   | 14.7   | 17.6   |
| 87.5° | 5.8    | 5.8    | 4.4    | 5.8    | 5.8    | 5.8    | 7.3    | 8.8    | 8.8    | 10.3   | 8.8    |
| 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: P246179

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 2731.5 | 2731.5 | 2731.5 | 2731.5 |
| 2.5°  | 2735.9 | 2738.8 | 2734.4 | 2733.0 |
| 5°    | 2740.3 | 2740.3 | 2737.4 | 2737.4 |
| 7.5°  | 2740.3 | 2740.3 | 2735.9 | 2733.0 |
| 10°   | 2728.5 | 2728.5 | 2724.2 | 2721.2 |
| 12.5° | 2706.6 | 2706.6 | 2705.1 | 2700.7 |
| 15°   | 2678.7 | 2678.7 | 2672.8 | 2668.5 |
| 17.5° | 2640.6 | 2643.5 | 2636.2 | 2636.2 |
| 20°   | 2599.5 | 2598.1 | 2592.2 | 2589.3 |
| 22.5° | 2557.0 | 2554.1 | 2552.6 | 2543.8 |
| 25°   | 2511.6 | 2508.6 | 2504.2 | 2499.8 |
| 27.5° | 2433.9 | 2432.4 | 2428.0 | 2422.1 |
| 30°   | 2315.1 | 2313.6 | 2307.8 | 2307.8 |
| 32.5° | 2161.1 | 2159.7 | 2153.8 | 2155.3 |
| 35°   | 2001.3 | 2007.2 | 2004.3 | 1998.4 |
| 37.5° | 1867.9 | 1872.3 | 1875.3 | 1872.3 |
| 40°   | 1756.5 | 1769.7 | 1771.1 | 1774.1 |
| 42.5° | 1637.7 | 1655.3 | 1661.2 | 1664.1 |
| 45°   | 1495.5 | 1511.6 | 1524.8 | 1521.9 |
| 47.5° | 1350.3 | 1362.1 | 1373.8 | 1365.0 |
| 50°   | 1211.1 | 1218.4 | 1222.8 | 1222.8 |
| 52.5° | 1079.1 | 1079.1 | 1077.6 | 1079.1 |
| 55°   | 928.1  | 928.1  | 922.2  | 925.1  |
| 57.5° | 769.7  | 772.7  | 768.3  | 760.9  |
| 60°   | 623.1  | 615.8  | 612.9  | 608.5  |
| 62.5° | 485.3  | 485.3  | 475.1  | 488.2  |
| 65°   | 363.6  | 359.2  | 354.8  | 353.3  |
| 67.5° | 263.9  | 262.5  | 258.0  | 256.6  |
| 70°   | 186.2  | 180.3  | 178.9  | 175.9  |
| 72.5° | 124.6  | 124.6  | 121.7  | 121.7  |
| 75°   | 76.2   | 68.9   | 67.4   | 68.9   |
| 77.5° | 52.8   | 51.3   | 51.3   | 49.9   |
| 80°   | 35.2   | 33.7   | 36.7   | 32.3   |
| 82.5° | 22.0   | 23.5   | 22.0   | 23.5   |
| 85°   | 14.7   | 17.6   | 16.1   | 16.1   |
| 87.5° | 8.8    | 8.8    | 8.8    | 8.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)