

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: P879479

Luminaire Tested: **LD4C70D010 EU4709027 4LBLDWWLI**

Issue Date: 10/1/2024

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: P879479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EU4709027 4LBLDWWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

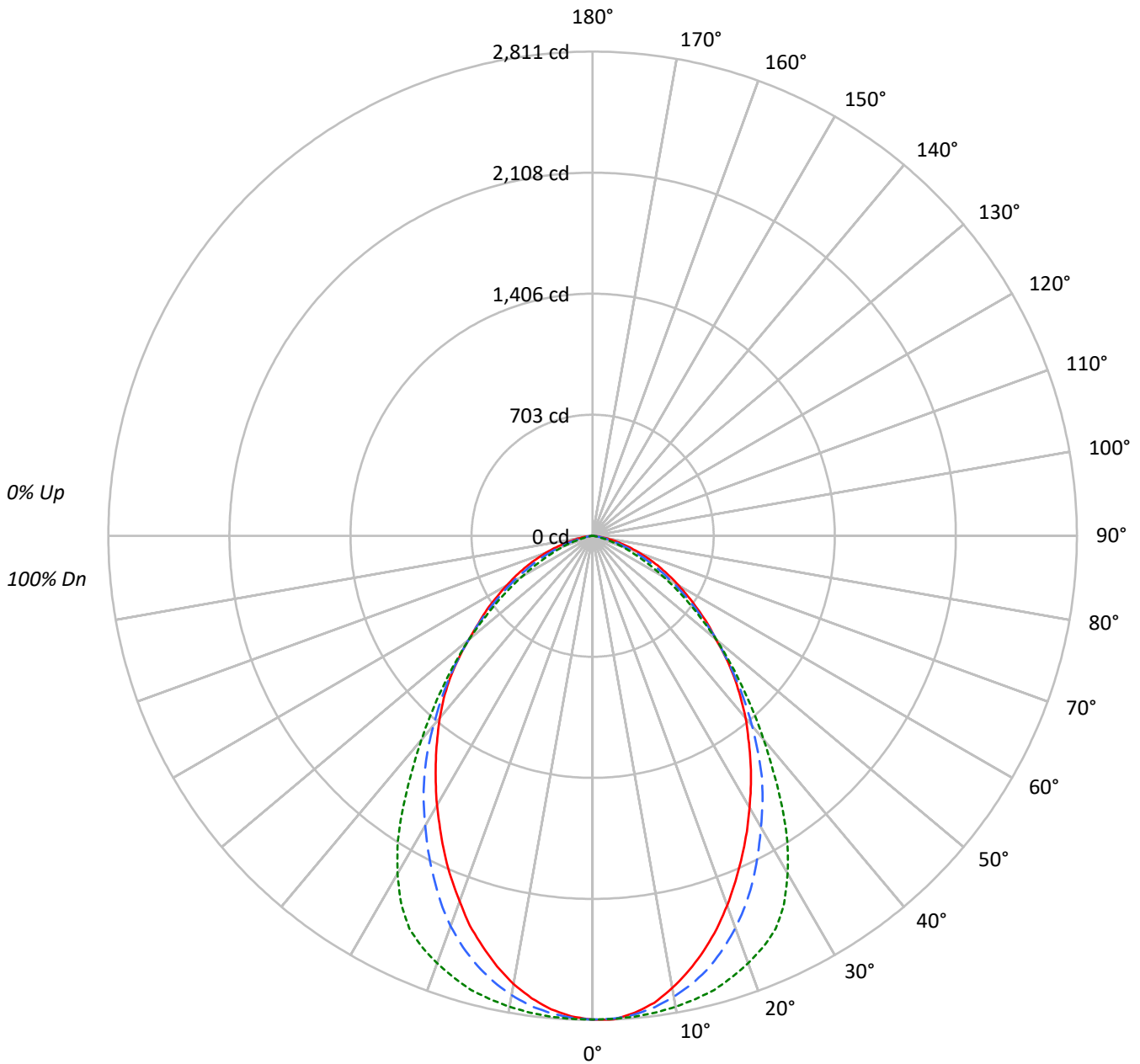
Lumens per Lamp: N/A
Luminaire Lumens: 5158.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	345034	345034	345034
5°	342985	345575	340395
10°	332543	346427	329661
15°	317269	347183	313796
20°	298527	345214	295219
25°	278048	341121	275771
30°	258354	321225	256268
35°	239587	287310	237863
40°	221492	247778	221332
45°	201818	211495	203468
50°	178263	178856	179257
55°	159720	146226	160406
60°	141159	116121	141429
65°	124273	88546	123052
70°	102983	63399	102983
75°	80267	36407	77276
80°	52000	8914	49807
85°	19311	2960	14801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	5.1
10°-20°	729.4	14.1
20°-30°	1019.6	19.8
30°-40°	1075.6	20.9
40°-50°	915.0	17.7
50°-60°	645.7	12.5
60°-70°	366.0	7.1
70°-80°	130.6	2.5
80°-90°	12.5	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°	2012.7	39.0
0°-40°	3088.3	59.9
0°-60°	4648.9	90.1
0°-90°	5158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2808	2808	2808	2808	2808	
5°	2781	2791	2802	2782	2760	262
15°	2494	2600	2730	2585	2467	699
25°	2051	2205	2516	2185	2034	944
35°	1598	1713	1916	1704	1586	999
45°	1162	1178	1217	1184	1171	893
55°	746	720	683	723	749	670
65°	428	367	305	368	423	423
75°	169	116	77	113	163	183
85°	14	5	2	5	10	24
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°	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5
2.5°	2810.6	2805.3	2805.3	2805.3	2805.3	2805.3	2805.3	2805.3	2805.3	2806.4	2806.4
5°	2781.2	2779.1	2778.0	2778.0	2778.0	2778.0	2779.1	2783.3	2785.4	2788.5	2790.6
7.5°	2735.0	2730.8	2732.9	2732.9	2735.0	2737.1	2740.2	2744.4	2750.7	2754.9	2760.2
10°	2665.7	2661.5	2666.7	2668.8	2675.1	2678.3	2683.5	2689.8	2702.4	2708.7	2717.1
12.5°	2584.8	2582.7	2584.8	2593.2	2599.5	2603.7	2610.0	2623.6	2636.3	2649.9	2664.6
15°	2494.5	2489.2	2492.4	2502.9	2513.4	2520.7	2526.0	2543.8	2560.6	2581.6	2599.5
17.5°	2393.6	2386.3	2394.7	2403.1	2416.7	2423.0	2430.4	2450.3	2473.5	2496.6	2516.5
20°	2283.4	2281.3	2286.5	2298.1	2311.7	2320.1	2326.4	2348.5	2368.4	2399.9	2423.0
22.5°	2168.9	2171.0	2175.2	2187.8	2197.2	2208.8	2218.2	2238.2	2261.3	2290.7	2320.1
25°	2051.2	2054.4	2061.7	2070.1	2085.9	2092.2	2103.7	2124.8	2144.7	2172.0	2204.6
27.5°	1937.8	1938.9	1947.3	1951.5	1966.2	1979.8	1985.1	2007.1	2030.2	2051.2	2079.6
30°	1821.2	1824.4	1829.6	1841.2	1855.9	1861.1	1867.4	1887.4	1905.2	1931.5	1953.6
32.5°	1709.9	1707.8	1714.1	1720.4	1737.2	1746.6	1749.8	1772.9	1788.7	1814.9	1835.9
35°	1597.5	1592.3	1601.7	1608.0	1622.7	1631.1	1635.3	1653.2	1667.9	1689.9	1713.0
37.5°	1485.1	1489.3	1493.5	1498.8	1506.1	1508.2	1520.8	1525.0	1543.9	1560.7	1573.3
40°	1381.1	1379.0	1376.9	1382.2	1391.6	1395.8	1396.9	1408.5	1412.7	1429.5	1438.9
42.5°	1269.8	1270.9	1269.8	1270.9	1276.1	1276.1	1279.3	1286.6	1289.8	1295.0	1306.6
45°	1161.6	1161.6	1158.5	1159.5	1160.6	1159.5	1160.6	1163.7	1170.0	1170.0	1178.4
47.5°	1049.2	1047.1	1051.3	1048.2	1046.1	1045.0	1048.2	1045.0	1051.3	1051.3	1053.5
50°	932.7	932.7	937.9	936.9	939.0	934.8	935.8	935.8	936.9	935.8	940.0
52.5°	842.3	840.2	838.1	832.9	835.0	830.8	830.8	831.8	828.7	827.6	822.4
55°	745.7	747.8	744.7	742.6	742.6	738.4	737.3	731.0	726.8	723.7	720.5
57.5°	658.5	660.6	659.6	654.3	648.0	649.1	647.0	640.7	631.2	624.9	619.7
60°	574.5	576.6	574.5	569.3	567.2	563.0	561.9	553.5	546.2	537.8	531.5
62.5°	498.9	498.9	497.8	490.5	485.2	486.3	481.0	474.7	465.3	453.7	444.3
65°	427.5	426.4	421.2	418.0	413.8	408.6	405.4	396.0	388.6	379.2	366.6
67.5°	356.1	352.9	350.8	347.6	338.2	337.1	332.9	324.5	314.0	306.7	296.2
70°	286.7	285.7	281.5	281.5	274.1	271.0	264.7	257.3	247.9	237.4	229.0
72.5°	226.9	224.8	220.6	216.4	210.1	208.0	202.7	195.4	187.0	176.5	165.9
75°	169.1	167.0	165.9	160.7	155.4	150.2	148.1	140.7	132.3	125.0	115.5
77.5°	118.7	116.6	113.4	110.3	107.1	104.0	100.8	94.5	87.2	80.9	72.5
80°	73.5	71.4	69.3	68.3	65.1	64.1	59.9	56.7	50.4	46.2	41.0
82.5°	37.8	37.8	35.7	34.7	32.6	31.5	30.5	27.3	24.2	21.0	17.9
85°	13.7	13.7	12.6	11.6	11.6	10.5	10.5	9.5	7.4	7.4	5.3
87.5°	1.1	1.1	2.1	1.1	1.1	1.1	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5
2.5°	2807.4	2806.4	2807.4	2807.4	2808.5	2808.5	2808.5	2807.4	2808.5	2807.4	2807.4
5°	2790.6	2793.8	2795.9	2798.0	2799.0	2800.1	2800.1	2801.1	2802.2	2802.2	2801.1
7.5°	2764.4	2770.7	2777.0	2781.2	2783.3	2785.4	2788.5	2790.6	2792.7	2791.7	2790.6
10°	2729.7	2740.2	2748.6	2757.0	2761.2	2764.4	2769.6	2773.8	2775.9	2777.0	2773.8
12.5°	2680.4	2695.1	2708.7	2722.4	2728.7	2732.9	2743.4	2750.7	2754.9	2754.9	2751.8
15°	2618.4	2639.4	2659.4	2677.2	2687.7	2694.0	2709.8	2720.3	2726.6	2729.7	2724.5
17.5°	2543.8	2568.0	2592.1	2615.2	2625.7	2635.2	2657.3	2672.0	2685.6	2687.7	2681.4
20°	2448.2	2478.7	2506.0	2534.4	2545.9	2560.6	2585.8	2610.0	2631.0	2640.5	2622.6
22.5°	2341.1	2374.7	2399.9	2434.6	2450.3	2466.1	2498.7	2529.1	2565.9	2585.8	2554.3
25°	2229.8	2258.1	2288.6	2322.2	2344.3	2361.1	2398.9	2437.7	2487.1	2516.5	2472.4
27.5°	2110.1	2135.3	2172.0	2208.8	2225.6	2246.6	2291.8	2333.8	2381.0	2407.3	2374.7
30°	1986.1	2017.6	2052.3	2085.9	2110.1	2130.0	2166.8	2202.5	2242.4	2264.4	2240.3
32.5°	1863.2	1893.7	1923.1	1959.9	1973.5	1991.4	2023.9	2054.4	2084.8	2104.8	2076.4
35°	1734.0	1761.4	1788.7	1813.9	1820.2	1841.2	1867.4	1885.3	1900.0	1915.7	1896.8
37.5°	1593.3	1614.3	1628.0	1655.3	1665.8	1668.9	1689.9	1702.5	1718.3	1721.4	1720.4
40°	1450.5	1469.4	1480.9	1497.7	1506.1	1506.1	1520.8	1532.4	1543.9	1545.0	1543.9
42.5°	1317.1	1326.5	1336.0	1346.5	1344.4	1357.0	1363.3	1368.5	1376.9	1376.9	1379.0
45°	1182.6	1190.0	1198.4	1200.5	1208.9	1208.9	1214.1	1216.2	1220.4	1217.3	1213.1
47.5°	1057.7	1060.8	1061.9	1071.3	1073.4	1066.1	1072.4	1073.4	1072.4	1072.4	1070.3
50°	939.0	941.1	940.0	936.9	937.9	941.1	937.9	933.7	935.8	935.8	937.9
52.5°	823.4	819.2	817.1	817.1	812.9	812.9	807.7	805.6	804.5	800.3	805.6
55°	717.4	711.1	701.6	699.5	696.3	695.3	689.0	683.7	681.6	682.7	681.6
57.5°	615.5	606.0	599.7	597.6	594.5	588.2	580.8	575.6	574.5	572.4	572.4
60°	523.0	512.5	503.1	493.6	494.7	490.5	483.1	480.0	476.8	472.6	475.8
62.5°	439.0	427.5	417.0	407.5	401.2	398.1	392.8	387.6	384.4	381.3	385.5
65°	356.1	346.6	335.0	325.6	322.4	319.3	314.0	305.6	304.6	304.6	306.7
67.5°	281.5	271.0	260.5	254.2	250.0	245.8	243.7	239.5	236.3	234.2	235.3
70°	216.4	205.9	197.5	191.2	188.0	187.0	179.6	178.6	177.5	176.5	175.4
72.5°	157.5	149.1	141.8	137.6	133.4	130.2	128.1	125.0	123.9	123.9	123.9
75°	108.2	101.9	93.5	88.2	86.1	83.0	79.8	77.7	75.6	76.7	76.7
77.5°	65.1	58.8	53.6	49.4	48.3	45.2	42.0	39.9	36.8	36.8	37.8
80°	35.7	30.5	26.3	23.1	21.0	20.0	16.8	15.8	13.7	12.6	12.6
82.5°	15.8	12.6	10.5	9.5	8.4	7.4	6.3	5.3	5.3	4.2	5.3
85°	5.3	4.2	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.1	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5
2.5°	2806.4	2806.4	2805.3	2805.3	2805.3	2803.2	2803.2	2802.2	2801.1	2800.1	2798.0
5°	2799.0	2798.0	2795.9	2794.8	2793.8	2790.6	2787.5	2785.4	2782.2	2778.0	2775.9
7.5°	2788.5	2785.4	2781.2	2779.1	2775.9	2768.6	2763.3	2758.1	2752.8	2745.5	2737.1
10°	2770.7	2764.4	2758.1	2753.9	2748.6	2739.2	2728.7	2720.3	2708.7	2698.2	2686.7
12.5°	2745.5	2738.1	2725.5	2719.2	2712.9	2699.3	2685.6	2667.8	2652.0	2637.3	2623.6
15°	2714.0	2700.3	2685.6	2677.2	2667.8	2645.7	2624.7	2605.8	2584.8	2566.9	2544.9
17.5°	2667.8	2647.8	2626.8	2617.3	2604.7	2579.5	2554.3	2528.1	2503.9	2481.9	2454.5
20°	2598.4	2576.4	2549.1	2534.4	2523.9	2490.3	2466.1	2436.7	2411.5	2384.2	2353.7
22.5°	2517.6	2487.1	2456.7	2435.6	2424.1	2390.5	2357.9	2331.7	2304.4	2272.8	2250.8
25°	2426.2	2388.4	2351.6	2330.6	2312.8	2277.0	2245.5	2218.2	2184.6	2157.3	2135.3
27.5°	2323.3	2280.2	2237.1	2216.1	2199.3	2160.5	2126.9	2098.5	2065.9	2041.8	2018.7
30°	2200.4	2161.5	2120.6	2103.7	2083.8	2043.9	2005.0	1979.8	1944.1	1918.9	1893.7
32.5°	2047.0	2021.8	1989.3	1966.2	1955.7	1918.9	1886.3	1855.9	1825.4	1805.5	1780.3
35°	1879.0	1856.9	1829.6	1817.0	1803.4	1780.3	1754.0	1727.7	1703.6	1684.7	1661.6
37.5°	1708.8	1686.8	1670.0	1656.3	1647.9	1626.9	1611.2	1591.2	1574.4	1556.5	1543.9
40°	1532.4	1526.1	1508.2	1501.9	1499.8	1476.7	1463.1	1447.3	1436.8	1426.3	1419.0
42.5°	1375.9	1365.4	1351.7	1352.8	1346.5	1333.9	1324.4	1313.9	1306.6	1301.3	1294.0
45°	1221.5	1213.1	1206.8	1212.0	1201.5	1197.3	1190.0	1188.9	1183.7	1174.2	1171.1
47.5°	1074.5	1073.4	1074.5	1071.3	1069.2	1067.1	1068.2	1062.9	1057.7	1054.5	1050.3
50°	940.0	941.1	943.2	946.3	939.0	942.1	941.1	940.0	940.0	936.9	939.0
52.5°	809.8	810.8	812.9	816.1	817.1	817.1	820.3	822.4	826.6	831.8	831.8
55°	686.9	694.2	698.4	703.7	700.5	706.9	710.0	719.5	722.6	722.6	726.8
57.5°	577.7	585.0	588.2	594.5	596.6	601.8	610.2	615.5	622.8	629.1	635.4
60°	477.9	481.0	489.4	498.9	496.8	509.4	515.7	524.1	533.6	537.8	546.2
62.5°	388.6	392.8	399.1	402.3	409.6	415.9	430.6	439.0	447.4	457.9	466.3
65°	308.8	313.0	319.3	325.6	328.7	338.2	345.5	360.3	367.6	379.2	388.6
67.5°	236.3	242.6	247.9	252.1	254.2	263.6	275.2	281.5	295.1	306.7	314.0
70°	176.5	181.7	188.0	187.0	191.2	198.5	206.9	216.4	226.9	237.4	245.8
72.5°	122.9	128.1	132.3	133.4	137.6	142.8	149.1	156.5	164.9	175.4	187.0
75°	77.7	78.8	83.0	85.1	87.2	93.5	98.7	106.1	113.4	121.8	129.2
77.5°	38.9	42.0	44.1	46.2	47.3	52.5	57.8	64.1	70.4	78.8	86.1
80°	14.7	15.8	18.9	20.0	22.1	25.2	29.4	32.6	37.8	44.1	48.3
82.5°	5.3	6.3	7.4	7.4	8.4	10.5	11.6	14.7	17.9	20.0	22.1
85°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	5.3	6.3	6.3
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



TEST NUMBER: P879479

CATALOG NUMBER: LD4C70D010 EU4709027 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5	2808.5
2.5°	2796.9	2796.9	2795.9	2794.8	2794.8	2794.8	2793.8	2793.8
5°	2771.7	2768.6	2767.5	2765.4	2764.4	2763.3	2760.2	2760.2
7.5°	2730.8	2726.6	2723.4	2720.3	2716.1	2712.9	2712.9	2708.7
10°	2676.2	2667.8	2663.6	2659.4	2654.1	2647.8	2645.7	2642.6
12.5°	2610.0	2593.2	2589.0	2581.6	2573.2	2569.0	2561.7	2561.7
15°	2528.1	2510.2	2500.8	2496.6	2486.1	2478.7	2475.6	2467.2
17.5°	2432.5	2418.8	2404.1	2397.8	2386.3	2376.8	2372.6	2371.6
20°	2335.9	2313.8	2304.4	2294.9	2281.3	2272.8	2266.5	2258.1
22.5°	2224.5	2204.6	2190.9	2184.6	2173.1	2158.4	2147.9	2147.9
25°	2106.9	2089.0	2081.7	2068.0	2054.4	2049.1	2036.5	2034.4
27.5°	1994.5	1976.7	1962.0	1954.6	1938.9	1931.5	1921.0	1916.8
30°	1877.9	1856.9	1846.4	1845.4	1826.5	1819.1	1810.7	1806.5
32.5°	1761.4	1743.5	1733.0	1726.7	1718.3	1705.7	1698.3	1694.1
35°	1645.8	1634.3	1624.8	1617.5	1603.8	1597.5	1591.2	1586.0
37.5°	1525.0	1514.5	1510.3	1504.0	1497.7	1486.2	1484.1	1479.9
40°	1408.5	1394.8	1394.8	1390.6	1384.3	1383.2	1380.1	1380.1
42.5°	1286.6	1280.3	1279.3	1280.3	1276.1	1274.0	1270.9	1278.2
45°	1165.8	1169.0	1163.7	1164.8	1162.7	1166.9	1166.9	1171.1
47.5°	1054.5	1050.3	1052.4	1054.5	1057.7	1057.7	1056.6	1055.6
50°	935.8	940.0	944.2	939.0	941.1	942.1	936.9	937.9
52.5°	833.9	835.0	838.1	835.0	838.1	837.1	839.2	835.0
55°	735.2	735.2	739.4	740.5	741.5	744.7	745.7	748.9
57.5°	639.6	644.9	650.1	649.1	653.3	657.5	654.3	657.5
60°	556.7	560.9	566.1	568.2	571.4	573.5	573.5	575.6
62.5°	472.6	481.0	485.2	489.4	489.4	493.6	497.8	498.9
65°	397.0	406.5	409.6	412.8	414.9	419.1	424.3	423.3
67.5°	325.6	331.9	336.1	338.2	344.5	346.6	350.8	355.0
70°	255.2	263.6	266.8	271.0	276.2	280.4	284.6	286.7
72.5°	195.4	201.7	203.8	208.0	213.2	217.4	219.5	222.7
75°	136.5	147.0	148.1	151.2	155.4	160.7	163.8	162.8
77.5°	90.3	97.7	98.7	102.9	107.1	111.3	112.4	113.4
80°	53.6	57.8	58.8	60.9	64.1	66.2	68.3	70.4
82.5°	25.2	27.3	29.4	29.4	31.5	33.6	33.6	34.7
85°	8.4	8.4	9.5	9.5	10.5	10.5	11.6	10.5
87.5°	1.1	1.1	0.0	1.1	1.1	1.1	1.1	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)