

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: P879487

Luminaire Tested: **LD4C70D010 EU4709050 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: P879487
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 EU4709050 4LBLDWWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

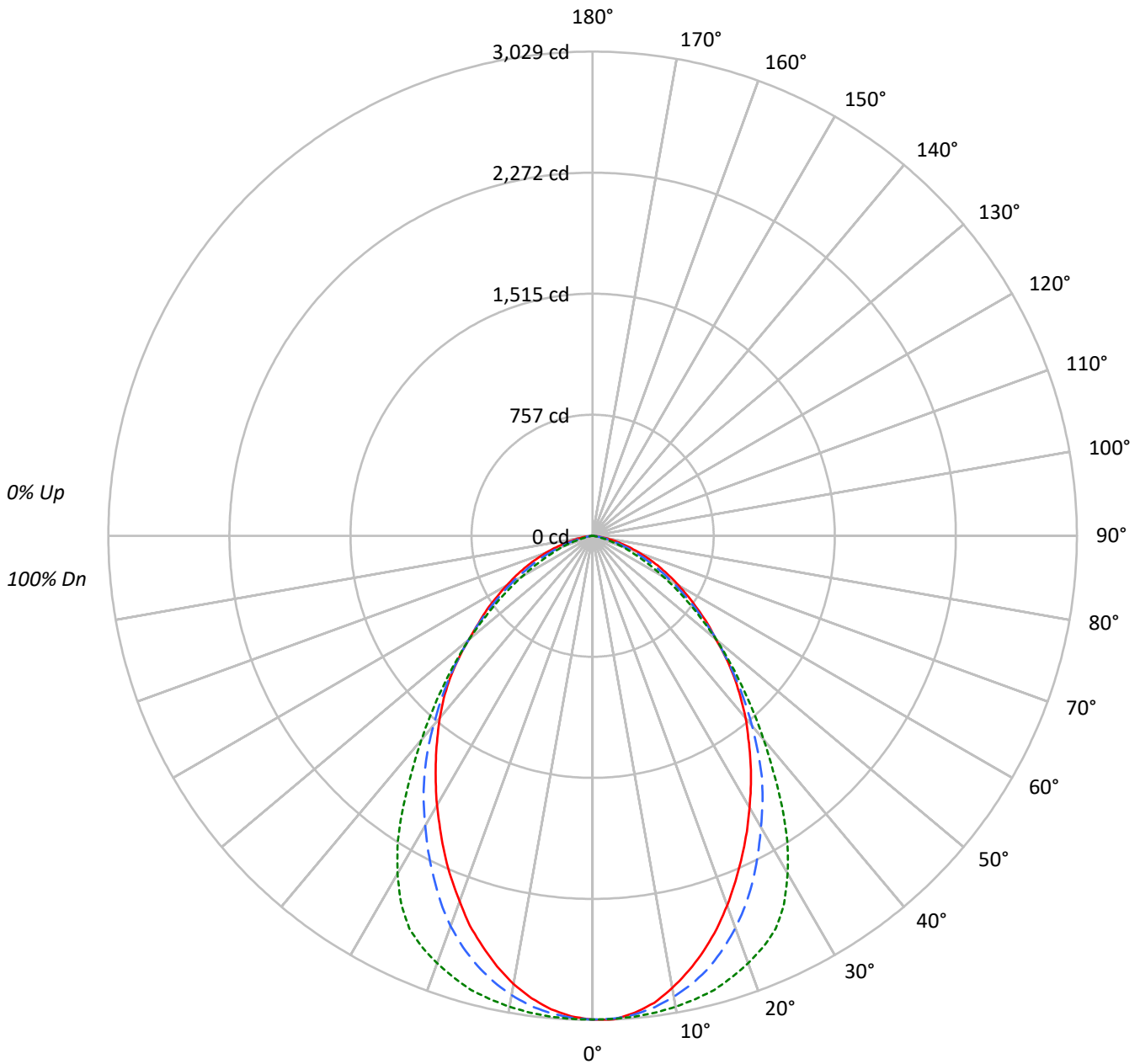
Lumens per Lamp: N/A
Luminaire Lumens: 5558.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	371791	371791	371791
5°	369586	372373	366787
10°	358328	373285	355222
15°	341867	374109	338127
20°	321668	371976	318125
25°	299615	367581	297161
30°	278398	346150	276143
35°	258169	309596	256295
40°	238684	266990	238492
45°	217472	227896	219244
50°	192082	192732	193171
55°	172100	157557	172829
60°	152117	125139	152387
65°	133895	95406	132586
70°	110993	68284	110993
75°	86485	39208	83257
80°	56033	9622	53627
85°	20721	3242	15928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	5.1
10°-20°	786.0	14.1
20°-30°	1098.7	19.8
30°-40°	1159.0	20.9
40°-50°	986.0	17.7
50°-60°	695.7	12.5
60°-70°	394.4	7.1
70°-80°	140.7	2.5
80°-90°	13.5	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°	2168.8	39.0
0°-40°	3327.7	59.9
0°-60°	5009.4	90.1
0°-90°	5558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5558.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3026	3026	3026	3026	3026	
5°	2997	3007	3020	2998	2974	282
15°	2688	2801	2941	2785	2658	754
25°	2210	2376	2712	2354	2192	1017
35°	1721	1846	2064	1836	1709	1076
45°	1252	1270	1312	1276	1262	962
55°	804	776	736	779	807	722
65°	461	395	328	396	456	456
75°	182	124	83	122	175	197
85°	15	6	2	6	11	26
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°	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3
2.5°	3028.6	3022.9	3022.9	3022.9	3022.9	3022.9	3022.9	3022.9	3022.9	3024.0	3024.0
5°	2996.9	2994.6	2993.5	2993.5	2993.5	2993.5	2994.6	2999.1	3001.4	3004.8	3007.1
7.5°	2947.1	2942.5	2944.8	2944.8	2947.1	2949.3	2952.7	2957.3	2964.1	2968.6	2974.2
10°	2872.4	2867.9	2873.5	2875.8	2882.6	2886.0	2891.6	2898.4	2912.0	2918.8	2927.8
12.5°	2785.2	2783.0	2785.2	2794.3	2801.1	2805.6	2812.4	2827.1	2840.7	2855.4	2871.2
15°	2687.9	2682.2	2685.6	2697.0	2708.3	2716.2	2721.9	2741.1	2759.2	2781.8	2801.1
17.5°	2579.3	2571.3	2580.4	2589.4	2604.2	2610.9	2618.9	2640.4	2665.3	2690.2	2711.7
20°	2460.4	2458.2	2463.8	2476.3	2491.0	2500.0	2506.8	2530.6	2552.1	2586.0	2610.9
22.5°	2337.1	2339.3	2343.9	2357.4	2367.6	2380.1	2390.3	2411.8	2436.7	2468.3	2500.0
25°	2210.3	2213.7	2221.6	2230.7	2247.7	2254.4	2266.9	2289.5	2311.0	2340.5	2375.5
27.5°	2088.1	2089.2	2098.3	2102.8	2118.6	2133.3	2139.0	2162.8	2187.7	2210.3	2240.9
30°	1962.5	1965.8	1971.5	1984.0	1999.8	2005.5	2012.3	2033.8	2053.0	2081.3	2105.1
32.5°	1842.5	1840.2	1847.0	1853.8	1871.9	1882.1	1885.5	1910.4	1927.4	1955.7	1978.3
35°	1721.4	1715.7	1725.9	1732.7	1748.6	1757.6	1762.1	1781.4	1797.2	1821.0	1845.9
37.5°	1600.3	1604.8	1609.3	1615.0	1622.9	1625.2	1638.8	1643.3	1663.7	1681.8	1695.4
40°	1488.3	1486.0	1483.7	1489.4	1499.6	1504.1	1505.2	1517.7	1522.2	1540.3	1550.5
42.5°	1368.3	1369.4	1368.3	1369.4	1375.1	1375.1	1378.5	1386.4	1389.8	1395.4	1407.9
45°	1251.7	1251.7	1248.3	1249.5	1250.6	1249.5	1250.6	1254.0	1260.8	1260.8	1269.8
47.5°	1130.6	1128.4	1132.9	1129.5	1127.2	1126.1	1129.5	1126.1	1132.9	1132.9	1135.1
50°	1005.0	1005.0	1010.7	1009.5	1011.8	1007.3	1008.4	1008.4	1009.5	1008.4	1012.9
52.5°	907.7	905.4	903.1	897.5	899.7	895.2	895.2	896.3	893.0	891.8	886.2
55°	803.5	805.8	802.4	800.1	800.1	795.6	794.5	787.7	783.2	779.8	776.4
57.5°	709.6	711.9	710.7	705.1	698.3	699.4	697.2	690.4	680.2	673.4	667.7
60°	619.1	621.3	619.1	613.4	611.1	606.6	605.5	596.4	588.5	579.5	572.7
62.5°	537.6	537.6	536.4	528.5	522.9	524.0	518.3	511.6	501.4	488.9	478.7
65°	460.6	459.5	453.8	450.4	445.9	440.3	436.9	426.7	418.7	408.6	395.0
67.5°	383.7	380.3	378.0	374.6	364.4	363.3	358.8	349.7	338.4	330.5	319.2
70°	309.0	307.8	303.3	303.3	295.4	292.0	285.2	277.3	267.1	255.8	246.7
72.5°	244.5	242.2	237.7	233.1	226.3	224.1	218.4	210.5	201.5	190.1	178.8
75°	182.2	179.9	178.8	173.2	167.5	161.8	159.6	151.7	142.6	134.7	124.5
77.5°	127.9	125.6	122.2	118.8	115.4	112.0	108.6	101.9	93.9	87.1	78.1
80°	79.2	77.0	74.7	73.6	70.2	69.0	64.5	61.1	54.3	49.8	44.1
82.5°	40.7	40.7	38.5	37.3	35.1	34.0	32.8	29.4	26.0	22.6	19.2
85°	14.7	14.7	13.6	12.4	12.4	11.3	11.3	10.2	7.9	7.9	5.7
87.5°	1.1	1.1	2.3	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°	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3
2.5°	3025.2	3024.0	3025.2	3025.2	3026.3	3026.3	3026.3	3025.2	3026.3	3025.2	3025.2
5°	3007.1	3010.5	3012.7	3015.0	3016.1	3017.2	3017.2	3018.4	3019.5	3019.5	3018.4
7.5°	2978.8	2985.6	2992.3	2996.9	2999.1	3001.4	3004.8	3007.1	3009.3	3008.2	3007.1
10°	2941.4	2952.7	2961.8	2970.8	2975.4	2978.8	2984.4	2989.0	2991.2	2992.3	2989.0
12.5°	2888.2	2904.1	2918.8	2933.5	2940.3	2944.8	2956.1	2964.1	2968.6	2968.6	2965.2
15°	2821.5	2844.1	2865.6	2884.8	2896.1	2902.9	2919.9	2931.2	2938.0	2941.4	2935.8
17.5°	2741.1	2767.1	2793.2	2818.1	2829.4	2839.6	2863.3	2879.2	2893.9	2896.1	2889.4
20°	2638.1	2670.9	2700.4	2730.9	2743.4	2759.2	2786.4	2812.4	2835.0	2845.2	2826.0
22.5°	2522.7	2558.9	2586.0	2623.4	2640.4	2657.3	2692.4	2725.3	2764.9	2786.4	2752.4
25°	2402.7	2433.3	2466.1	2502.3	2526.1	2544.2	2584.9	2626.8	2680.0	2711.7	2664.1
27.5°	2273.7	2300.8	2340.5	2380.1	2398.2	2420.8	2469.5	2514.7	2565.7	2594.0	2558.9
30°	2140.1	2174.1	2211.4	2247.7	2273.7	2295.2	2334.8	2373.3	2416.3	2440.1	2414.0
32.5°	2007.7	2040.5	2072.2	2111.8	2126.6	2145.8	2180.9	2213.7	2246.5	2268.0	2237.5
35°	1868.5	1897.9	1927.4	1954.5	1961.3	1984.0	2012.3	2031.5	2047.3	2064.3	2043.9
37.5°	1716.9	1739.5	1754.2	1783.6	1795.0	1798.3	1821.0	1834.6	1851.5	1854.9	1853.8
40°	1562.9	1583.3	1595.8	1613.9	1622.9	1622.9	1638.8	1651.2	1663.7	1664.8	1663.7
42.5°	1419.2	1429.4	1439.6	1450.9	1448.6	1462.2	1469.0	1474.7	1483.7	1483.7	1486.0
45°	1274.3	1282.3	1291.3	1293.6	1302.6	1302.6	1308.3	1310.6	1315.1	1311.7	1307.2
47.5°	1139.7	1143.1	1144.2	1154.4	1156.6	1148.7	1155.5	1156.6	1155.5	1155.5	1153.3
50°	1011.8	1014.0	1012.9	1009.5	1010.7	1014.0	1010.7	1006.1	1008.4	1008.4	1010.7
52.5°	887.3	882.8	880.5	880.5	876.0	876.0	870.3	868.1	866.9	862.4	868.1
55°	773.0	766.2	756.0	753.7	750.3	749.2	742.4	736.8	734.5	735.6	734.5
57.5°	663.2	653.0	646.2	644.0	640.6	633.8	625.9	620.2	619.1	616.8	616.8
60°	563.6	552.3	542.1	531.9	533.1	528.5	520.6	517.2	513.8	509.3	512.7
62.5°	473.1	460.6	449.3	439.1	432.3	428.9	423.3	417.6	414.2	410.8	415.4
65°	383.7	373.5	361.0	350.8	347.4	344.1	338.4	329.3	328.2	328.2	330.5
67.5°	303.3	292.0	280.7	273.9	269.4	264.8	262.6	258.0	254.6	252.4	253.5
70°	233.1	221.8	212.8	206.0	202.6	201.5	193.5	192.4	191.3	190.1	189.0
72.5°	169.8	160.7	152.8	148.3	143.7	140.3	138.1	134.7	133.5	133.5	133.5
75°	116.6	109.8	100.7	95.1	92.8	89.4	86.0	83.7	81.5	82.6	82.6
77.5°	70.2	63.4	57.7	53.2	52.1	48.7	45.3	43.0	39.6	39.6	40.7
80°	38.5	32.8	28.3	24.9	22.6	21.5	18.1	17.0	14.7	13.6	13.6
82.5°	17.0	13.6	11.3	10.2	9.1	7.9	6.8	5.7	5.7	4.5	5.7
85°	5.7	4.5	3.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3
2.5°	3024.0	3024.0	3022.9	3022.9	3022.9	3020.6	3020.6	3019.5	3018.4	3017.2	3015.0
5°	3016.1	3015.0	3012.7	3011.6	3010.5	3007.1	3003.7	3001.4	2998.0	2993.5	2991.2
7.5°	3004.8	3001.4	2996.9	2994.6	2991.2	2983.3	2977.6	2972.0	2966.3	2958.4	2949.3
10°	2985.6	2978.8	2972.0	2967.4	2961.8	2951.6	2940.3	2931.2	2918.8	2907.5	2895.0
12.5°	2958.4	2950.5	2936.9	2930.1	2923.3	2908.6	2893.9	2874.6	2857.7	2841.8	2827.1
15°	2924.4	2909.7	2893.9	2884.8	2874.6	2850.9	2828.2	2807.9	2785.2	2766.0	2742.2
17.5°	2874.6	2853.1	2830.5	2820.3	2806.7	2779.6	2752.4	2724.1	2698.1	2674.3	2644.9
20°	2799.9	2776.2	2746.8	2730.9	2719.6	2683.4	2657.3	2625.7	2598.5	2569.1	2536.3
22.5°	2712.8	2680.0	2647.2	2624.5	2612.1	2575.9	2540.8	2512.5	2483.1	2449.1	2425.3
25°	2614.3	2573.6	2534.0	2511.4	2492.1	2453.6	2419.7	2390.3	2354.0	2324.6	2300.8
27.5°	2503.4	2457.0	2410.6	2388.0	2369.9	2328.0	2291.8	2261.2	2226.2	2200.1	2175.2
30°	2371.0	2329.1	2285.0	2266.9	2245.4	2202.4	2160.5	2133.3	2094.9	2067.7	2040.5
32.5°	2205.8	2178.6	2143.5	2118.6	2107.3	2067.7	2032.6	1999.8	1967.0	1945.5	1918.3
35°	2024.7	2000.9	1971.5	1957.9	1943.2	1918.3	1890.0	1861.7	1835.7	1815.3	1790.4
37.5°	1841.4	1817.6	1799.5	1784.8	1775.7	1753.1	1736.1	1714.6	1696.5	1677.3	1663.7
40°	1651.2	1644.4	1625.2	1618.4	1616.1	1591.2	1576.5	1559.6	1548.2	1536.9	1529.0
42.5°	1482.6	1471.3	1456.6	1457.7	1450.9	1437.3	1427.1	1415.8	1407.9	1402.2	1394.3
45°	1316.2	1307.2	1300.4	1306.0	1294.7	1290.2	1282.3	1281.1	1275.5	1265.3	1261.9
47.5°	1157.8	1156.6	1157.8	1154.4	1152.1	1149.9	1151.0	1145.3	1139.7	1136.3	1131.7
50°	1012.9	1014.0	1016.3	1019.7	1011.8	1015.2	1014.0	1012.9	1012.9	1009.5	1011.8
52.5°	872.6	873.7	876.0	879.4	880.5	880.5	883.9	886.2	890.7	896.3	896.3
55°	740.2	748.1	752.6	758.3	754.9	761.7	765.1	775.2	778.6	778.6	783.2
57.5°	622.5	630.4	633.8	640.6	642.8	648.5	657.5	663.2	671.1	677.9	684.7
60°	514.9	518.3	527.4	537.6	535.3	548.9	555.7	564.7	574.9	579.5	588.5
62.5°	418.7	423.3	430.1	433.5	441.4	448.2	464.0	473.1	482.1	493.4	502.5
65°	332.7	337.3	344.1	350.8	354.2	364.4	372.3	388.2	396.1	408.6	418.7
67.5°	254.6	261.4	267.1	271.6	273.9	284.1	296.5	303.3	318.0	330.5	338.4
70°	190.1	195.8	202.6	201.5	206.0	213.9	223.0	233.1	244.5	255.8	264.8
72.5°	132.4	138.1	142.6	143.7	148.3	153.9	160.7	168.6	177.7	189.0	201.5
75°	83.7	84.9	89.4	91.7	93.9	100.7	106.4	114.3	122.2	131.3	139.2
77.5°	41.9	45.3	47.5	49.8	50.9	56.6	62.2	69.0	75.8	84.9	92.8
80°	15.8	17.0	20.4	21.5	23.8	27.2	31.7	35.1	40.7	47.5	52.1
82.5°	5.7	6.8	7.9	7.9	9.1	11.3	12.4	15.8	19.2	21.5	23.8
85°	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.5	5.7	6.8	6.8
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: P879487

CATALOG NUMBER: LD4C70D010 EU4709050 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3	3026.3
2.5°	3013.8	3013.8	3012.7	3011.6	3011.6	3011.6	3010.5	3010.5
5°	2986.7	2983.3	2982.2	2979.9	2978.8	2977.6	2974.2	2974.2
7.5°	2942.5	2938.0	2934.6	2931.2	2926.7	2923.3	2923.3	2918.8
10°	2883.7	2874.6	2870.1	2865.6	2859.9	2853.1	2850.9	2847.5
12.5°	2812.4	2794.3	2789.8	2781.8	2772.8	2768.3	2760.3	2760.3
15°	2724.1	2704.9	2694.7	2690.2	2678.9	2670.9	2667.5	2658.5
17.5°	2621.1	2606.4	2590.6	2583.8	2571.3	2561.1	2556.6	2555.5
20°	2517.0	2493.2	2483.1	2472.9	2458.2	2449.1	2442.3	2433.3
22.5°	2397.0	2375.5	2360.8	2354.0	2341.6	2325.7	2314.4	2314.4
25°	2270.3	2251.0	2243.1	2228.4	2213.7	2208.0	2194.5	2192.2
27.5°	2149.2	2130.0	2114.1	2106.2	2089.2	2081.3	2070.0	2065.4
30°	2023.6	2000.9	1989.6	1988.5	1968.1	1960.2	1951.1	1946.6
32.5°	1897.9	1878.7	1867.4	1860.6	1851.5	1838.0	1830.0	1825.5
35°	1773.5	1761.0	1750.8	1742.9	1728.2	1721.4	1714.6	1708.9
37.5°	1643.3	1632.0	1627.5	1620.7	1613.9	1601.4	1599.2	1594.6
40°	1517.7	1503.0	1503.0	1498.4	1491.6	1490.5	1487.1	1487.1
42.5°	1386.4	1379.6	1378.5	1379.6	1375.1	1372.8	1369.4	1377.3
45°	1256.2	1259.6	1254.0	1255.1	1252.8	1257.4	1257.4	1261.9
47.5°	1136.3	1131.7	1134.0	1136.3	1139.7	1139.7	1138.5	1137.4
50°	1008.4	1012.9	1017.4	1011.8	1014.0	1015.2	1009.5	1010.7
52.5°	898.6	899.7	903.1	899.7	903.1	902.0	904.3	899.7
55°	792.2	792.2	796.8	797.9	799.0	802.4	803.5	806.9
57.5°	689.2	694.9	700.6	699.4	703.9	708.5	705.1	708.5
60°	599.8	604.4	610.0	612.3	615.7	617.9	617.9	620.2
62.5°	509.3	518.3	522.9	527.4	527.4	531.9	536.4	537.6
65°	427.8	438.0	441.4	444.8	447.0	451.6	457.2	456.1
67.5°	350.8	357.6	362.2	364.4	371.2	373.5	378.0	382.5
70°	275.0	284.1	287.5	292.0	297.7	302.2	306.7	309.0
72.5°	210.5	217.3	219.6	224.1	229.7	234.3	236.5	239.9
75°	147.1	158.4	159.6	163.0	167.5	173.2	176.6	175.4
77.5°	97.3	105.3	106.4	110.9	115.4	120.0	121.1	122.2
80°	57.7	62.2	63.4	65.6	69.0	71.3	73.6	75.8
82.5°	27.2	29.4	31.7	31.7	34.0	36.2	36.2	37.3
85°	9.1	9.1	10.2	10.2	11.3	11.3	12.4	11.3
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)