

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: P879484

Luminaire Tested: **LD4C70D010 EU4709040 4LBDWWH**

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: P879484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EU4709040 4LBLDWWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

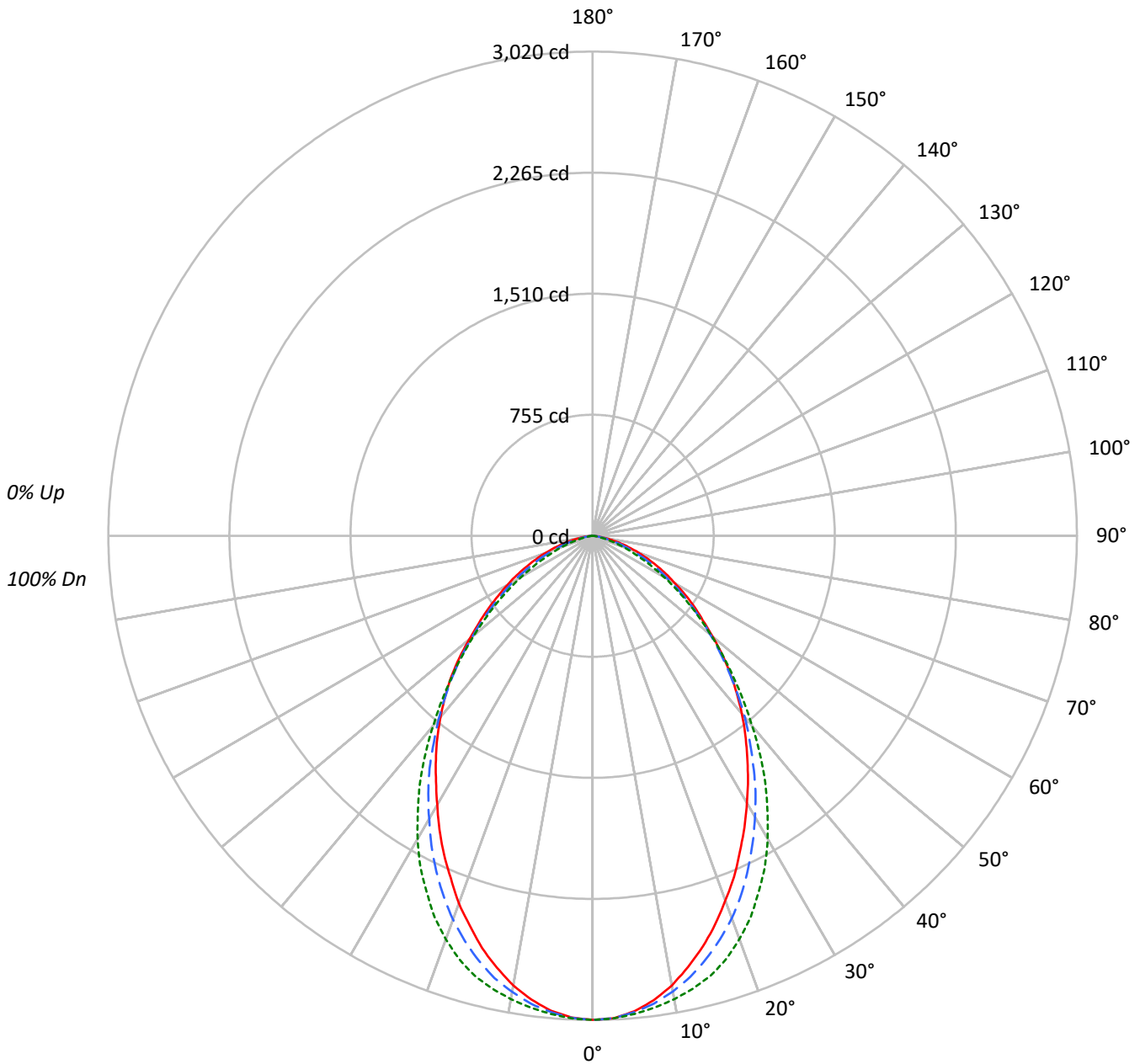
Lumens per Lamp: N/A
Luminaire Lumens: 5401.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59																			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52																			
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	44	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°	370968	370968	370968
5°	367194	369241	366774
10°	355247	366038	355384
15°	337517	361352	338636
20°	316347	349972	318948
25°	294626	332053	297337
30°	272937	309749	274979
35°	251795	281566	255620
40°	232269	248098	236535
45°	210383	215022	216742
50°	186520	184188	191183
55°	166253	155094	170066
60°	145508	125876	150938
65°	127325	97354	131860
70°	107149	71301	112717
75°	83684	46328	88431
80°	54901	24337	60419
85°	18747	10995	24950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	5.2
10°-20°	770.2	14.3
20°-30°	1059.3	19.6
30°-40°	1105.1	20.5
40°-50°	945.4	17.5
50°-60°	676.3	12.5
60°-70°	392.4	7.3
70°-80°	151.3	2.8
80°-90°	19.2	0.4
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°	2111.3	39.1
0°-40°	3216.4	59.6
0°-60°	4838.1	89.6
0°-90°	5401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5401.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3020	3020	3020	3020	3020	
5°	2978	2983	2994	2983	2974	280
15°	2654	2734	2841	2744	2662	744
25°	2174	2293	2450	2308	2194	1000
35°	1679	1745	1877	1773	1704	1052
45°	1211	1201	1238	1231	1248	933
55°	776	737	724	757	794	694
65°	438	387	335	400	454	437
75°	176	132	98	140	186	190
85°	13	10	8	11	18	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°	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6
2.5°	3011.8	3009.6	3010.7	3010.7	3010.7	3009.6	3011.8	3011.8	3010.7	3010.7	3010.7
5°	2977.5	2975.2	2976.4	2977.5	2977.5	2977.5	2978.6	2979.7	2980.8	2981.9	2983.0
7.5°	2922.0	2918.7	2922.0	2926.5	2926.5	2927.6	2928.7	2929.8	2933.1	2938.7	2942.0
10°	2847.7	2847.7	2848.8	2852.2	2857.7	2856.6	2859.9	2865.5	2872.1	2879.9	2885.4
12.5°	2753.5	2755.7	2759.0	2762.3	2767.9	2771.2	2776.7	2783.4	2794.5	2805.6	2817.8
15°	2653.7	2654.8	2655.9	2663.6	2669.2	2676.9	2681.4	2694.7	2704.7	2720.2	2733.5
17.5°	2541.7	2540.5	2543.9	2550.5	2563.8	2567.2	2572.7	2587.1	2601.5	2622.6	2640.4
20°	2419.7	2426.3	2430.8	2439.6	2447.4	2456.3	2460.7	2478.4	2495.1	2515.0	2538.3
22.5°	2304.3	2298.8	2306.6	2316.5	2323.2	2329.9	2337.6	2356.5	2374.2	2398.6	2421.9
25°	2173.5	2176.8	2182.4	2190.1	2199.0	2207.9	2216.7	2236.7	2246.7	2272.2	2293.3
27.5°	2049.3	2054.8	2057.1	2067.0	2074.8	2081.5	2085.9	2109.2	2118.0	2140.2	2161.3
30°	1924.0	1929.5	1929.5	1940.6	1946.2	1952.8	1963.9	1979.4	1992.7	2008.3	2023.8
32.5°	1803.1	1803.1	1807.5	1817.5	1823.1	1830.8	1834.2	1845.3	1858.6	1874.1	1890.7
35°	1678.9	1682.2	1686.7	1686.7	1696.7	1701.1	1705.5	1716.6	1725.5	1732.1	1745.4
37.5°	1564.7	1564.7	1561.4	1566.9	1573.6	1572.5	1579.1	1584.7	1590.2	1598.0	1609.1
40°	1448.3	1448.3	1443.8	1447.1	1451.6	1450.5	1448.3	1453.8	1458.2	1463.8	1474.9
42.5°	1329.6	1327.4	1326.3	1326.3	1328.5	1326.3	1328.5	1329.6	1329.6	1329.6	1336.3
45°	1210.9	1216.5	1209.8	1207.6	1204.3	1201.0	1199.9	1201.0	1205.4	1199.9	1201.0
47.5°	1094.5	1096.7	1092.3	1089.0	1085.6	1083.4	1085.6	1079.0	1081.2	1082.3	1077.9
50°	975.9	971.4	971.4	968.1	969.2	968.1	965.9	963.7	963.7	958.1	954.8
52.5°	866.1	868.3	870.5	862.7	863.9	858.3	859.4	853.9	853.9	847.2	849.4
55°	776.2	772.9	772.9	769.6	768.5	762.9	761.8	758.5	750.7	746.3	737.4
57.5°	683.1	682.0	677.6	678.7	672.0	670.9	668.7	663.1	657.6	652.0	642.1
60°	592.2	593.3	593.3	591.1	587.7	582.2	583.3	575.5	567.8	557.8	548.9
62.5°	516.8	513.4	512.3	510.1	503.5	503.5	497.9	492.4	484.6	474.6	466.9
65°	438.0	439.1	435.8	432.5	425.8	424.7	420.3	415.8	408.1	398.1	387.0
67.5°	367.1	364.8	363.7	360.4	353.7	352.6	349.3	339.3	332.7	322.7	313.8
70°	298.3	296.1	297.2	291.6	285.0	281.7	280.6	272.8	262.8	255.1	246.2
72.5°	234.0	234.0	232.9	227.3	224.0	221.8	217.3	208.5	202.9	194.1	187.4
75°	176.3	175.2	173.0	169.7	165.2	163.0	160.8	155.2	147.5	137.5	132.0
77.5°	122.0	123.1	120.9	119.8	114.2	110.9	109.8	106.5	99.8	93.1	87.6
80°	77.6	76.5	75.4	73.2	72.1	71.0	67.6	65.4	58.8	55.4	52.1
82.5°	42.1	39.9	39.9	38.8	36.6	35.5	34.4	32.2	31.0	28.8	26.6
85°	13.3	14.4	13.3	13.3	13.3	12.2	12.2	12.2	11.1	11.1	10.0
87.5°	1.1	2.2	1.1	1.1	2.2	1.1	1.1	2.2	1.1	1.1	2.2
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°	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6
2.5°	3010.7	3011.8	3011.8	3012.9	3012.9	3012.9	3012.9	3012.9	3012.9	3012.9	3012.9
5°	2986.3	2986.3	2988.6	2990.8	2990.8	2990.8	2991.9	2994.1	2994.1	2994.1	2993.0
7.5°	2946.4	2950.9	2955.3	2959.7	2960.8	2961.9	2964.2	2968.6	2968.6	2968.6	2968.6
10°	2894.3	2904.3	2909.8	2916.5	2919.8	2922.0	2928.7	2929.8	2933.1	2934.2	2933.1
12.5°	2827.8	2841.1	2853.3	2864.4	2868.8	2873.2	2879.9	2886.5	2889.9	2893.2	2892.1
15°	2753.5	2767.9	2786.7	2798.9	2807.8	2814.5	2824.4	2833.3	2838.8	2841.1	2841.1
17.5°	2663.6	2681.4	2701.3	2721.3	2726.8	2737.9	2749.0	2761.2	2767.9	2769.0	2767.9
20°	2563.8	2583.8	2600.4	2620.4	2632.6	2638.1	2653.7	2669.2	2675.8	2676.9	2675.8
22.5°	2445.2	2464.0	2486.2	2507.3	2517.3	2527.2	2543.9	2559.4	2568.3	2574.9	2568.3
25°	2313.2	2339.8	2360.9	2378.6	2393.1	2403.0	2424.1	2436.3	2450.7	2449.6	2450.7
27.5°	2183.5	2205.7	2228.9	2250.0	2258.9	2270.0	2286.6	2306.6	2318.8	2326.5	2325.4
30°	2050.4	2068.1	2088.1	2107.0	2121.4	2130.2	2154.6	2163.5	2179.0	2183.5	2180.1
32.5°	1909.6	1921.8	1941.7	1967.2	1972.8	1981.6	1997.2	2019.4	2024.9	2027.1	2028.2
35°	1759.9	1783.2	1799.8	1815.3	1819.7	1827.5	1845.3	1861.9	1867.4	1877.4	1873.0
37.5°	1621.2	1634.6	1642.3	1657.8	1671.2	1677.8	1686.7	1697.8	1708.9	1713.3	1712.2
40°	1482.6	1489.3	1495.9	1512.6	1513.7	1513.7	1527.0	1542.5	1542.5	1547.0	1547.0
42.5°	1340.7	1341.8	1350.7	1359.5	1361.8	1364.0	1377.3	1379.5	1386.2	1389.5	1393.9
45°	1203.2	1209.8	1215.4	1216.5	1222.0	1223.1	1226.5	1229.8	1239.8	1237.6	1239.8
47.5°	1077.9	1081.2	1084.5	1084.5	1087.9	1086.7	1092.3	1089.0	1095.6	1097.8	1101.2
50°	954.8	960.3	957.0	959.2	958.1	961.4	959.2	959.2	959.2	963.7	967.0
52.5°	841.7	842.8	839.5	840.6	840.6	838.3	840.6	839.5	838.3	838.3	839.5
55°	737.4	733.0	730.8	726.3	720.8	727.5	724.1	721.9	726.3	724.1	726.3
57.5°	636.5	631.0	626.5	624.3	616.6	621.0	616.6	614.3	614.3	614.3	619.9
60°	541.2	535.6	530.1	523.4	522.3	520.1	517.9	512.3	513.4	512.3	514.5
62.5°	458.0	446.9	439.1	433.6	432.5	429.2	425.8	420.3	421.4	421.4	422.5
65°	381.5	369.3	358.2	350.4	350.4	344.9	339.3	339.3	332.7	334.9	336.0
67.5°	305.0	295.0	283.9	278.3	275.0	270.6	267.3	265.0	261.7	261.7	263.9
70°	236.2	226.2	220.7	211.8	210.7	207.4	202.9	199.6	198.5	198.5	197.4
72.5°	178.5	169.7	163.0	157.5	154.1	150.8	146.4	145.3	143.1	143.1	145.3
75°	124.2	118.7	113.1	107.6	105.3	104.2	100.9	98.7	98.7	97.6	98.7
77.5°	83.2	77.6	72.1	69.9	67.6	65.4	64.3	63.2	59.9	59.9	59.9
80°	47.7	45.5	43.2	39.9	39.9	38.8	36.6	35.5	34.4	34.4	34.4
82.5°	24.4	23.3	21.1	20.0	20.0	20.0	18.9	18.9	17.7	17.7	17.7
85°	10.0	8.9	7.8	7.8	7.8	7.8	7.8	7.8	8.9	7.8	8.9
87.5°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6
2.5°	3012.9	3011.8	3011.8	3011.8	3011.8	3011.8	3010.7	3010.7	3009.6	3009.6	3009.6
5°	2994.1	2993.0	2991.9	2990.8	2989.7	2988.6	2987.4	2986.3	2983.0	2981.9	2979.7
7.5°	2967.5	2965.3	2961.9	2960.8	2958.6	2955.3	2950.9	2948.6	2944.2	2938.7	2936.4
10°	2932.0	2927.6	2924.2	2918.7	2917.6	2913.1	2902.1	2896.5	2888.8	2882.1	2874.3
12.5°	2888.8	2884.3	2876.6	2868.8	2864.4	2854.4	2844.4	2835.5	2825.5	2811.1	2800.0
15°	2835.5	2828.9	2813.3	2811.1	2804.5	2788.9	2775.6	2759.0	2743.5	2728.0	2714.6
17.5°	2764.6	2750.1	2742.4	2732.4	2724.6	2704.7	2690.3	2671.4	2650.3	2632.6	2613.7
20°	2671.4	2655.9	2642.6	2637.0	2627.0	2609.3	2591.6	2568.3	2547.2	2525.0	2508.4
22.5°	2560.5	2550.5	2530.6	2523.9	2511.7	2494.0	2472.9	2450.7	2430.8	2406.4	2384.2
25°	2441.9	2427.4	2411.9	2398.6	2389.7	2373.1	2346.5	2329.9	2307.7	2281.1	2264.4
27.5°	2315.4	2298.8	2276.6	2267.8	2260.0	2237.8	2215.6	2194.6	2176.8	2153.5	2139.1
30°	2169.1	2156.9	2142.4	2131.4	2120.3	2102.5	2082.6	2058.2	2039.3	2028.2	2008.3
32.5°	2020.5	2010.5	1991.6	1986.1	1973.9	1959.5	1945.1	1927.3	1907.4	1890.7	1875.2
35°	1861.9	1851.9	1838.6	1828.6	1824.2	1814.2	1798.7	1783.2	1773.2	1754.3	1746.6
37.5°	1703.3	1700.0	1686.7	1676.7	1673.4	1661.2	1653.4	1642.3	1627.9	1623.5	1614.6
40°	1540.3	1538.1	1530.3	1529.2	1522.6	1519.2	1508.1	1499.3	1492.6	1489.3	1483.7
42.5°	1390.6	1388.4	1381.7	1382.8	1376.2	1374.0	1372.8	1365.1	1359.5	1352.9	1354.0
45°	1243.1	1240.9	1236.5	1234.2	1237.6	1236.5	1234.2	1230.9	1230.9	1232.0	1228.7
47.5°	1101.2	1103.4	1098.9	1101.2	1101.2	1097.8	1097.8	1102.3	1103.4	1105.6	1107.8
50°	967.0	973.6	971.4	974.7	975.9	977.0	973.6	979.2	978.1	988.1	985.8
52.5°	845.0	846.1	850.5	851.7	852.8	853.9	859.4	863.9	865.0	869.4	877.2
55°	727.5	728.6	737.4	737.4	743.0	744.1	751.9	754.1	757.4	769.6	771.8
57.5°	616.6	623.2	627.7	629.9	633.2	638.7	643.2	653.2	658.7	666.5	674.2
60°	516.8	524.5	530.1	532.3	536.7	543.4	548.9	560.0	570.0	578.9	584.4
62.5°	424.7	431.4	435.8	443.6	443.6	449.1	462.4	469.1	480.2	487.9	497.9
65°	342.7	347.1	354.9	354.9	359.3	368.2	379.3	389.2	400.3	411.4	421.4
67.5°	268.4	271.7	276.1	280.6	282.8	293.9	302.7	317.2	327.1	334.9	347.1
70°	202.9	205.2	210.7	215.1	218.5	226.2	236.2	246.2	256.2	265.0	277.2
72.5°	145.3	149.7	155.2	158.6	160.8	166.3	176.3	186.3	195.2	204.0	210.7
75°	99.8	103.1	105.3	108.7	112.0	116.4	123.1	129.7	139.7	148.6	156.4
77.5°	62.1	65.4	68.8	69.9	71.0	75.4	79.8	86.5	93.1	99.8	105.3
80°	36.6	37.7	38.8	39.9	42.1	45.5	47.7	52.1	56.6	61.0	66.5
82.5°	18.9	20.0	21.1	21.1	21.1	22.2	25.5	27.7	28.8	31.0	34.4
85°	7.8	7.8	7.8	8.9	8.9	10.0	10.0	11.1	11.1	12.2	13.3
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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: P879484

CATALOG NUMBER: LD4C70D010 EU4709040 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6	3019.6
2.5°	3008.5	3008.5	3008.5	3007.4	3008.5	3008.5	3008.5	3007.4
5°	2979.7	2977.5	2977.5	2976.4	2975.2	2975.2	2976.4	2974.1
7.5°	2932.0	2928.7	2926.5	2926.5	2925.3	2924.2	2924.2	2918.7
10°	2869.9	2863.2	2863.2	2861.0	2852.2	2851.0	2848.8	2848.8
12.5°	2792.3	2784.5	2780.1	2774.5	2769.0	2764.6	2763.4	2759.0
15°	2700.2	2690.3	2682.5	2680.3	2671.4	2664.7	2664.7	2662.5
17.5°	2600.4	2584.9	2579.4	2573.8	2561.6	2560.5	2558.3	2548.3
20°	2487.3	2472.9	2465.1	2459.6	2451.8	2440.7	2438.5	2439.6
22.5°	2368.7	2348.7	2342.1	2336.5	2328.7	2318.8	2318.8	2311.0
25°	2245.6	2227.8	2221.2	2214.5	2202.3	2197.9	2192.3	2193.5
27.5°	2120.3	2103.6	2098.1	2085.9	2078.1	2072.6	2067.0	2067.0
30°	1989.4	1980.5	1971.7	1970.6	1955.0	1948.4	1942.8	1938.4
32.5°	1863.0	1851.9	1847.5	1843.0	1835.3	1826.4	1825.3	1817.5
35°	1738.8	1727.7	1722.2	1717.7	1708.9	1705.5	1702.2	1704.4
37.5°	1607.9	1605.7	1602.4	1596.9	1591.3	1590.2	1585.8	1591.3
40°	1479.3	1478.2	1473.8	1474.9	1474.9	1472.7	1474.9	1474.9
42.5°	1355.1	1355.1	1350.7	1352.9	1354.0	1356.2	1359.5	1361.8
45°	1234.2	1233.1	1234.2	1236.5	1234.2	1239.8	1244.2	1247.5
47.5°	1110.0	1111.1	1115.6	1116.7	1118.9	1126.7	1126.7	1126.7
50°	991.4	996.9	994.7	1001.4	1000.3	1004.7	1000.3	1000.3
52.5°	878.3	883.8	884.9	886.0	892.7	893.8	893.8	892.7
55°	777.4	785.1	781.8	787.3	790.7	792.9	796.2	794.0
57.5°	684.2	687.5	690.9	692.0	696.4	698.6	700.8	698.6
60°	592.2	598.8	604.4	605.5	607.7	609.9	611.0	614.3
62.5°	505.7	516.8	519.0	520.1	525.6	529.0	531.2	533.4
65°	429.2	436.9	442.5	445.8	450.2	450.2	453.6	453.6
67.5°	354.9	362.6	365.9	368.2	374.8	375.9	381.5	381.5
70°	287.2	292.8	295.0	298.3	305.0	309.4	311.6	313.8
72.5°	221.8	228.4	231.8	236.2	240.6	244.0	245.1	248.4
75°	161.9	171.9	173.0	177.4	180.8	185.2	187.4	186.3
77.5°	113.1	116.4	120.9	123.1	126.4	129.7	133.1	133.1
80°	69.9	74.3	75.4	76.5	81.0	83.2	85.4	85.4
82.5°	36.6	38.8	41.0	42.1	44.4	44.4	45.5	46.6
85°	14.4	15.5	15.5	15.5	16.6	17.7	17.7	17.7
87.5°	2.2	3.3	2.2	2.2	3.3	3.3	3.3	3.3
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)