

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: P563974

Luminaire Tested: **LX6C55D010 EX6C559030 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P563974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C55D010 EX6C559030 6LCSWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

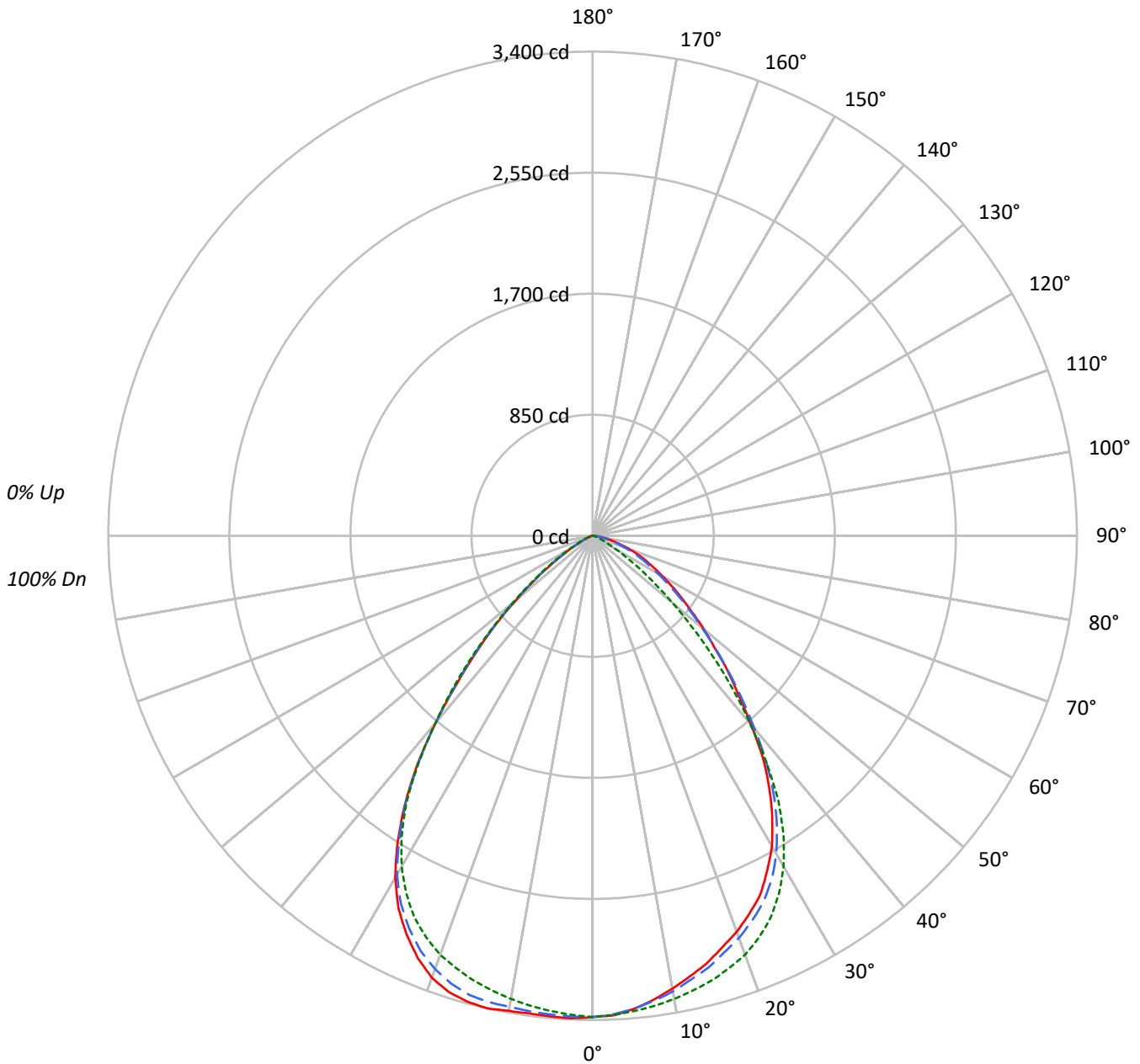
Lumens per Lamp: N/A
Luminaire Lumens: 5669.9 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V):
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				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			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	185270	185270	185270
5°	183507	184404	186429
10°	179723	183809	188585
15°	176284	183469	192271
20°	172629	182628	192633
25°	168379	178988	186888
30°	159417	169741	175432
35°	144775	152143	153515
40°	123560	122966	122379
45°	103786	92079	89234
50°	86684	62309	59179
55°	72953	38230	34723
60°	61760	20141	17455
65°	53482	10598	8457
70°	44479	6540	4584
75°	32873	4321	2605
80°	25792	2557	1326
85°	20568	2642	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.5	5.6
10°-20°	912.0	16.1
20°-30°	1346.7	23.8
30°-40°	1387.9	24.5
40°-50°	958.6	16.9
50°-60°	472.5	8.3
60°-70°	191.5	3.4
70°-80°	68.2	1.2
80°-90°	14.1	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°	2577.1	45.5
0°-40°	3965.0	69.9
0°-60°	5396.1	95.2
0°-90°	5669.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5669.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3380	3380	3380	3380	3380	
5°	3335	3335	3351	3376	3388	315
15°	3106	3139	3233	3339	3388	875
25°	2784	2837	2959	3045	3090	1273
35°	2163	2216	2273	2286	2294	1340
45°	1339	1347	1188	1171	1151	1035
55°	763	735	400	376	363	690
65°	412	372	82	65	65	409
75°	155	131	20	12	12	174
85°	33	24	4	0	0	40
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°	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6
2.5°	3371.4	3359.2	3367.3	3351.0	3371.4	3351.0	3355.1	3359.2	3355.1	3359.2	3363.3
5°	3334.7	3322.4	3334.7	3314.2	3334.7	3322.4	3322.4	3326.5	3326.5	3330.5	3334.7
7.5°	3285.8	3273.5	3285.8	3265.3	3289.7	3277.6	3277.6	3285.8	3281.6	3285.8	3293.9
10°	3228.6	3212.2	3224.5	3212.2	3236.7	3220.4	3228.6	3228.6	3228.6	3240.7	3249.0
12.5°	3167.4	3151.0	3167.4	3147.0	3171.3	3159.2	3163.2	3175.5	3179.5	3187.8	3191.8
15°	3106.1	3085.7	3093.8	3081.6	3106.1	3093.8	3098.0	3114.3	3114.3	3126.6	3138.9
17.5°	3028.6	3012.2	3028.6	3012.2	3032.6	3024.4	3032.6	3044.9	3044.9	3057.2	3069.3
20°	2959.1	2942.9	2955.1	2942.9	2967.4	2955.1	2959.1	2975.5	2979.5	2991.8	3004.1
22.5°	2873.5	2861.2	2869.3	2857.2	2881.6	2873.5	2877.6	2893.8	2898.0	2906.1	2926.6
25°	2783.7	2759.1	2771.4	2763.2	2787.8	2775.5	2783.7	2799.9	2808.2	2820.4	2836.8
27.5°	2653.1	2640.8	2648.9	2648.9	2669.3	2657.2	2661.2	2677.6	2689.7	2702.0	2722.4
30°	2518.4	2498.0	2506.2	2510.1	2526.5	2518.4	2526.5	2542.8	2547.0	2563.2	2579.5
32.5°	2347.0	2338.7	2355.1	2347.0	2355.1	2355.1	2359.1	2371.4	2379.5	2387.8	2408.2
35°	2163.3	2147.0	2163.3	2155.1	2175.6	2163.3	2175.6	2187.8	2187.8	2204.1	2216.4
37.5°	1963.3	1942.9	1951.0	1951.0	1959.1	1955.2	1955.2	1975.5	1979.6	1991.8	2004.1
40°	1726.6	1718.3	1734.7	1730.6	1734.7	1734.7	1738.7	1751.0	1759.1	1763.3	1767.4
42.5°	1514.3	1518.3	1522.4	1522.4	1522.4	1522.4	1522.4	1538.7	1534.8	1547.0	1551.0
45°	1338.7	1322.5	1330.6	1326.6	1338.7	1326.6	1338.7	1351.0	1342.9	1355.1	1346.9
47.5°	1159.1	1159.1	1159.1	1155.1	1163.3	1159.1	1167.2	1171.4	1171.4	1171.4	1167.2
50°	1016.4	1004.1	1008.1	1008.1	1012.2	1008.1	1016.4	1020.4	1020.4	1012.2	995.9
52.5°	877.5	873.5	873.5	881.6	881.6	877.5	877.5	877.5	877.5	865.3	857.1
55°	763.3	755.2	759.1	759.1	759.1	759.1	763.3	759.1	759.1	746.8	734.7
57.5°	661.2	653.0	653.0	653.0	657.1	653.0	653.0	653.0	649.0	636.7	620.4
60°	563.3	559.2	563.3	563.3	567.3	563.3	563.3	563.3	555.2	542.9	526.5
62.5°	481.6	481.6	481.6	485.6	485.6	481.6	481.6	477.5	473.5	457.1	440.9
65°	412.3	408.1	412.3	412.3	416.2	416.2	412.3	408.1	404.1	387.8	371.5
67.5°	342.9	338.7	342.9	342.9	346.9	342.9	342.9	342.9	330.6	322.5	306.1
70°	277.5	273.5	273.5	273.5	277.5	269.4	273.5	273.5	265.4	253.1	236.7
72.5°	212.3	212.3	212.3	212.3	212.3	212.3	208.1	208.1	200.0	187.7	179.5
75°	155.2	155.2	159.2	159.2	155.2	155.2	155.2	151.1	146.9	138.7	130.6
77.5°	114.3	114.3	114.3	114.3	110.2	110.2	110.2	106.1	102.0	98.0	89.8
80°	81.7	81.7	81.7	77.5	81.7	77.5	77.5	77.5	69.4	65.2	61.2
82.5°	57.1	53.1	53.1	53.1	53.1	53.1	53.1	48.9	48.9	45.0	40.8
85°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	28.6	24.5	24.5
87.5°	16.3	20.4	20.4	20.4	20.4	20.4	20.4	16.3	16.3	16.3	12.3
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°	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6
2.5°	3363.3	3363.3	3371.4	3359.2	3379.6	3367.3	3363.3	3383.6	3371.4	3367.3	3375.5
5°	3334.7	3338.9	3342.8	3334.7	3355.1	3342.8	3342.8	3363.3	3355.1	3351.0	3363.3
7.5°	3298.0	3302.0	3310.2	3306.1	3322.4	3314.2	3318.4	3338.9	3330.5	3330.5	3342.8
10°	3253.0	3261.1	3269.5	3269.5	3289.7	3281.6	3281.6	3306.1	3298.0	3302.0	3318.4
12.5°	3199.9	3212.2	3224.5	3228.6	3249.0	3236.7	3240.7	3269.5	3265.3	3269.5	3285.8
15°	3142.8	3159.2	3171.3	3171.3	3195.9	3183.6	3195.9	3224.5	3216.4	3232.7	3253.0
17.5°	3077.6	3093.8	3110.1	3114.3	3138.9	3130.5	3147.0	3175.5	3175.5	3183.6	3208.2
20°	3016.3	3036.7	3044.9	3057.2	3081.6	3077.6	3085.7	3118.4	3118.4	3130.5	3155.2
22.5°	2934.7	2955.1	2971.3	2983.7	3004.1	3004.1	3016.3	3044.9	3044.9	3053.0	3077.6
25°	2844.9	2869.3	2881.6	2893.8	2914.3	2910.1	2922.4	2946.9	2951.0	2959.1	2983.7
27.5°	2730.6	2751.0	2767.4	2775.5	2804.1	2787.8	2799.9	2828.6	2824.5	2832.6	2853.0
30°	2587.9	2608.2	2624.5	2624.5	2648.9	2648.9	2661.2	2673.5	2673.5	2681.5	2698.0
32.5°	2420.3	2444.9	2444.9	2457.1	2473.4	2457.1	2473.4	2489.7	2481.6	2493.9	2506.2
35°	2228.5	2240.8	2245.0	2245.0	2257.2	2253.1	2248.9	2261.2	2253.1	2273.4	2285.8
37.5°	1995.9	2012.2	2004.1	2012.2	2008.1	1995.9	1995.9	2016.4	1999.9	2004.1	2016.4
40°	1771.5	1771.5	1767.4	1747.0	1751.0	1738.7	1734.7	1738.7	1722.4	1718.3	1734.7
42.5°	1538.7	1534.8	1522.4	1493.9	1497.9	1477.5	1461.2	1461.2	1453.1	1448.9	1453.1
45°	1330.6	1318.3	1297.8	1265.4	1257.1	1240.8	1208.1	1200.0	1187.7	1187.7	1191.9
47.5°	1138.8	1122.5	1089.7	1053.1	1032.7	1012.2	979.6	967.3	946.9	938.8	946.9
50°	979.6	951.0	910.2	857.1	836.6	812.2	779.6	759.1	738.7	730.6	726.5
52.5°	832.7	791.9	751.0	685.8	669.3	645.0	599.9	579.6	559.2	542.9	542.9
55°	706.0	669.3	612.3	551.0	526.5	502.1	457.1	428.5	408.1	400.0	391.8
57.5°	591.8	551.0	497.9	432.7	408.1	383.7	338.7	310.2	289.8	277.5	269.4
60°	497.9	453.1	400.0	342.9	314.3	289.8	244.9	216.3	195.8	183.7	175.5
62.5°	408.1	371.5	318.4	265.4	240.9	216.3	179.5	151.1	130.6	122.5	110.2
65°	342.9	306.1	257.0	212.3	191.8	167.3	134.8	110.2	93.9	81.7	73.5
67.5°	277.5	248.9	208.1	167.3	146.9	130.6	102.0	81.7	65.2	57.1	53.1
70°	220.4	191.8	159.2	126.4	114.3	98.0	77.5	57.1	48.9	40.8	36.7
72.5°	163.3	142.9	118.3	93.9	81.7	73.5	53.1	45.0	32.7	28.6	24.5
75°	118.3	102.0	85.6	65.2	57.1	53.1	40.8	28.6	24.5	20.4	16.3
77.5°	81.7	73.5	57.1	45.0	40.8	36.7	28.6	20.4	16.3	12.3	12.3
80°	53.1	45.0	36.7	28.6	28.6	24.5	16.3	12.3	12.3	8.1	8.1
82.5°	32.7	28.6	24.5	20.4	16.3	16.3	12.3	8.1	8.1	4.2	4.2
85°	20.4	16.3	12.3	12.3	8.1	8.1	8.1	4.2	4.2	4.2	4.2
87.5°	8.1	8.1	8.1	4.2	4.2	4.2	4.2	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°	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6
2.5°	3375.5	3375.5	3383.6	3371.4	3379.6	3379.6	3387.8	3371.4	3379.6	3383.6	3391.8
5°	3359.2	3363.3	3371.4	3367.3	3371.4	3371.4	3379.6	3359.2	3375.5	3375.5	3387.8
7.5°	3342.8	3342.8	3351.0	3347.0	3355.1	3359.2	3367.3	3351.0	3367.3	3367.3	3379.6
10°	3322.4	3322.4	3334.7	3330.5	3342.8	3347.0	3359.2	3342.8	3359.2	3363.3	3375.5
12.5°	3293.9	3298.0	3310.2	3310.2	3322.4	3330.5	3342.8	3334.7	3355.1	3359.2	3375.5
15°	3261.1	3269.5	3285.8	3281.6	3293.9	3306.1	3322.4	3310.2	3338.9	3347.0	3363.3
17.5°	3220.4	3228.6	3240.7	3240.7	3253.0	3261.1	3281.6	3273.5	3298.0	3302.0	3322.4
20°	3159.2	3171.3	3187.8	3183.6	3195.9	3204.1	3220.4	3212.2	3236.7	3244.9	3265.3
22.5°	3085.7	3093.8	3106.1	3106.1	3118.4	3126.6	3142.8	3130.5	3155.2	3159.2	3175.5
25°	2987.8	2996.0	3004.1	3008.2	3020.4	3024.4	3032.6	3024.4	3044.9	3049.1	3069.3
27.5°	2861.2	2865.4	2877.6	2877.6	2885.7	2889.8	2902.0	2885.7	2914.3	2914.3	2926.6
30°	2710.1	2706.2	2722.4	2714.3	2722.4	2722.4	2734.7	2726.6	2746.9	2738.8	2751.0
32.5°	2510.1	2518.4	2518.4	2510.1	2526.5	2522.5	2522.5	2514.3	2526.5	2530.6	2538.7
35°	2277.6	2289.7	2289.7	2293.9	2298.1	2285.8	2289.7	2265.3	2285.8	2289.7	2293.9
37.5°	2024.5	2012.2	2020.4	2008.1	2028.5	2004.1	2004.1	1987.8	2004.1	2004.1	2008.1
40°	1734.7	1730.6	1738.7	1730.6	1726.6	1722.4	1714.3	1702.0	1718.3	1710.1	1722.4
42.5°	1461.2	1457.0	1457.0	1448.9	1444.9	1444.9	1436.8	1428.6	1424.5	1424.5	1444.9
45°	1179.5	1187.7	1179.5	1175.6	1183.7	1175.6	1179.5	1163.3	1171.4	1163.3	1171.4
47.5°	942.8	946.9	938.8	930.6	942.8	930.6	930.6	918.3	934.7	934.7	926.5
50°	730.6	726.5	718.3	726.5	722.5	722.5	722.5	710.2	718.3	706.0	714.4
52.5°	538.7	534.7	534.7	530.6	534.7	530.6	530.6	526.5	526.5	522.4	526.5
55°	391.8	387.8	379.6	379.6	379.6	383.7	379.6	375.6	375.6	371.5	375.6
57.5°	265.4	257.0	257.0	257.0	257.0	253.1	253.1	248.9	253.1	248.9	253.1
60°	171.4	171.4	163.3	163.3	163.3	163.3	163.3	159.2	163.3	163.3	163.3
62.5°	106.1	106.1	102.0	98.0	102.0	98.0	98.0	98.0	102.0	98.0	102.0
65°	69.4	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
67.5°	48.9	45.0	45.0	45.0	45.0	45.0	45.0	40.8	45.0	45.0	45.0
70°	32.7	32.7	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	16.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	12.3	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	8.1	8.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P563974

CATALOG NUMBER: LX6C55D010 EX6C559030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6	3379.6
2.5°	3379.6	3383.6	3375.5	3379.6	3371.4	3379.6	3383.6	3391.8
5°	3371.4	3375.5	3367.3	3375.5	3367.3	3375.5	3379.6	3387.8
7.5°	3363.3	3371.4	3363.3	3371.4	3363.3	3371.4	3375.5	3383.6
10°	3363.3	3375.5	3367.3	3379.6	3367.3	3375.5	3383.6	3387.8
12.5°	3363.3	3375.5	3371.4	3379.6	3375.5	3383.6	3391.8	3399.9
15°	3355.1	3367.3	3359.2	3371.4	3367.3	3371.4	3387.8	3387.8
17.5°	3310.2	3322.4	3322.4	3330.5	3330.5	3342.8	3351.0	3359.2
20°	3253.0	3265.3	3261.1	3273.5	3273.5	3285.8	3293.9	3302.0
22.5°	3167.4	3183.6	3179.5	3191.8	3187.8	3195.9	3212.2	3208.2
25°	3057.2	3077.6	3073.5	3081.6	3077.6	3077.6	3085.7	3089.7
27.5°	2922.4	2934.7	2930.6	2938.8	2930.6	2938.8	2946.9	2951.0
30°	2746.9	2755.1	2751.0	2755.1	2751.0	2759.1	2763.2	2771.4
32.5°	2534.7	2547.0	2534.7	2542.8	2538.7	2538.7	2555.1	2547.0
35°	2281.6	2285.8	2289.7	2289.7	2281.6	2285.8	2293.9	2293.9
37.5°	1999.9	2020.4	1995.9	2008.1	2004.1	2004.1	2004.1	2016.4
40°	1706.1	1710.1	1702.0	1702.0	1702.0	1697.9	1714.3	1710.1
42.5°	1428.6	1432.6	1428.6	1416.3	1420.4	1420.4	1432.6	1416.3
45°	1159.1	1167.2	1163.3	1163.3	1155.1	1155.1	1159.1	1151.0
47.5°	918.3	926.5	914.4	918.3	910.2	918.3	914.4	922.5
50°	697.9	706.0	702.1	706.0	706.0	697.9	710.2	693.9
52.5°	522.4	526.5	522.4	518.4	514.3	514.3	522.4	518.4
55°	371.5	367.3	367.3	367.3	371.5	371.5	367.3	363.3
57.5°	248.9	248.9	244.9	244.9	248.9	240.9	244.9	240.9
60°	159.2	159.2	159.2	159.2	155.2	159.2	159.2	159.2
62.5°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
65°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
67.5°	40.8	45.0	45.0	45.0	40.8	40.8	40.8	40.8
70°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
72.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
75°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	0.0	0.0	0.0
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)