

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: P684321

Luminaire Tested: **LX6C45D010 EX6C459050 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684321  
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: LX6C45D010 EX6C459050 6LCSWH  
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

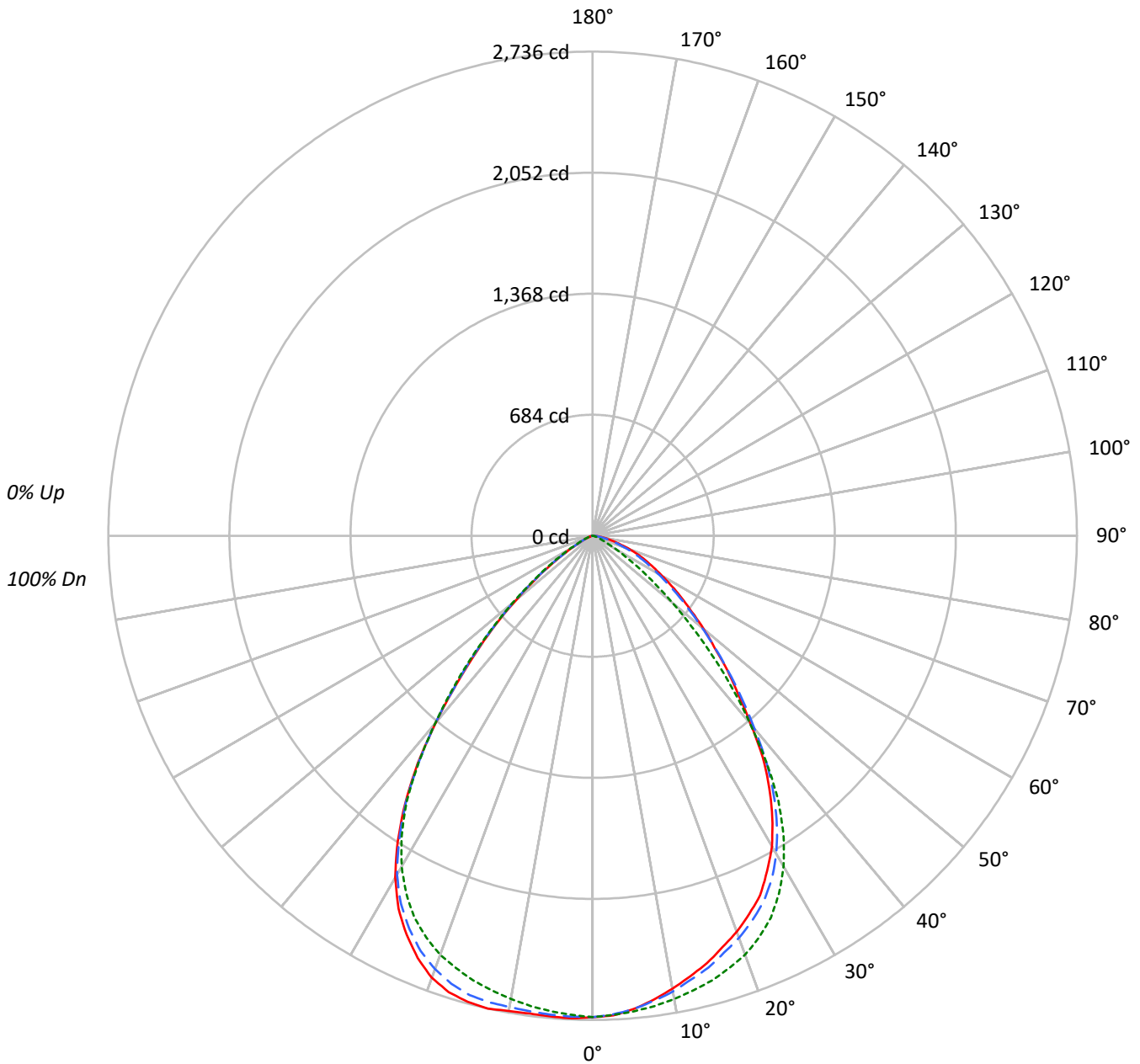
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4563.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 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): 49.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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°	149105	149105	149105
5°	147683	148404	150033
10°	144637	147926	151767
15°	141874	147646	154734
20°	138927	146978	155028
25°	135504	144045	150402
30°	128298	136610	141186
35°	116506	122442	123547
40°	99436	98964	98492
45°	83528	74101	71814
50°	69763	50148	47632
55°	58712	30766	27946
60°	49700	16216	14045
65°	43040	8522	6810
70°	35791	5273	3687
75°	26455	3474	2097
80°	20741	2052	1042
85°	16542	2076	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.3	5.6
10°-20°	733.9	16.1
20°-30°	1083.8	23.8
30°-40°	1116.9	24.5
40°-50°	771.4	16.9
50°-60°	380.2	8.3
60°-70°	154.1	3.4
70°-80°	54.9	1.2
80°-90°	11.3	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°	2074.0	45.5
0°-40°	3191.0	69.9
0°-60°	4342.7	95.2
0°-90°	4563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4563.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2720	2720	2720	2720	2720	
5°	2684	2684	2697	2716	2726	253
15°	2500	2526	2602	2687	2726	704
25°	2240	2283	2381	2450	2486	1024
35°	1741	1784	1830	1840	1846	1079
45°	1077	1084	956	943	926	833
55°	614	591	322	302	292	555
65°	332	299	66	52	52	330
75°	125	105	16	10	10	140
85°	26	20	3	0	0	32
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°	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9
2.5°	2713.2	2703.4	2710.0	2696.8	2713.2	2696.8	2700.1	2703.4	2700.1	2703.4	2706.7
5°	2683.7	2673.8	2683.7	2667.3	2683.7	2673.8	2673.8	2677.1	2677.1	2680.4	2683.7
7.5°	2644.3	2634.4	2644.3	2627.9	2647.5	2637.7	2637.7	2644.3	2640.9	2644.3	2650.8
10°	2598.3	2585.1	2595.0	2585.1	2604.9	2591.7	2598.3	2598.3	2598.3	2608.1	2614.8
12.5°	2549.0	2535.8	2549.0	2532.6	2552.3	2542.5	2545.7	2555.6	2558.8	2565.5	2568.7
15°	2499.8	2483.3	2489.9	2480.0	2499.8	2489.9	2493.2	2506.3	2506.3	2516.2	2526.1
17.5°	2437.4	2424.2	2437.4	2424.2	2440.6	2434.0	2440.6	2450.5	2450.5	2460.4	2470.1
20°	2381.4	2368.3	2378.2	2368.3	2388.1	2378.2	2381.4	2394.6	2397.9	2407.7	2417.6
22.5°	2312.5	2302.6	2309.2	2299.4	2319.0	2312.5	2315.8	2328.9	2332.3	2338.8	2355.2
25°	2240.2	2220.5	2230.4	2223.8	2243.6	2233.7	2240.2	2253.3	2260.0	2269.8	2283.0
27.5°	2135.1	2125.2	2131.8	2131.8	2148.2	2138.5	2141.7	2154.9	2164.6	2174.5	2190.9
30°	2026.8	2010.4	2016.9	2020.1	2033.3	2026.8	2033.3	2046.4	2049.8	2062.9	2075.9
32.5°	1888.8	1882.1	1895.4	1888.8	1895.4	1895.4	1898.6	1908.4	1915.0	1921.7	1938.1
35°	1740.9	1727.9	1740.9	1734.4	1750.8	1740.9	1750.8	1760.7	1760.7	1773.8	1783.7
37.5°	1580.0	1563.6	1570.1	1570.1	1576.7	1573.5	1573.5	1589.9	1593.1	1603.0	1612.9
40°	1389.5	1382.9	1396.1	1392.7	1396.1	1396.1	1399.3	1409.2	1415.7	1419.0	1422.4
42.5°	1218.7	1221.9	1225.2	1225.2	1225.2	1225.2	1225.2	1238.3	1235.1	1245.0	1248.2
45°	1077.4	1064.3	1070.8	1067.6	1077.4	1067.6	1077.4	1087.3	1080.7	1090.6	1083.9
47.5°	932.9	932.9	932.9	929.6	936.2	932.9	939.4	942.7	942.7	942.7	939.4
50°	818.0	808.1	811.3	811.3	814.6	811.3	818.0	821.2	821.2	814.6	801.5
52.5°	706.2	703.0	703.0	709.5	709.5	706.2	706.2	706.2	706.2	696.4	689.8
55°	614.3	607.7	611.0	611.0	611.0	611.0	614.3	611.0	611.0	601.1	591.3
57.5°	532.1	525.6	525.6	525.6	528.8	525.6	525.6	525.6	522.3	512.4	499.3
60°	453.3	450.0	453.3	453.3	456.5	453.3	453.3	453.3	446.8	436.9	423.7
62.5°	387.6	387.6	387.6	390.8	390.8	387.6	387.6	384.3	381.1	367.9	354.8
65°	331.8	328.5	331.8	331.8	335.0	335.0	331.8	328.5	325.2	312.0	298.9
67.5°	276.0	272.6	276.0	276.0	279.2	276.0	276.0	276.0	266.1	259.5	246.3
70°	223.3	220.1	220.1	220.1	223.3	216.8	220.1	220.1	213.6	203.7	190.5
72.5°	170.8	170.8	170.8	170.8	170.8	170.8	167.5	167.5	161.0	151.1	144.5
75°	124.9	124.9	128.1	128.1	124.9	124.9	124.9	121.5	118.2	111.7	105.1
77.5°	92.0	92.0	92.0	92.0	88.7	88.7	88.7	85.4	82.1	78.8	72.3
80°	65.7	65.7	65.7	62.4	65.7	62.4	62.4	62.4	55.8	52.5	49.3
82.5°	46.0	42.7	42.7	42.7	42.7	42.7	42.7	39.4	39.4	36.2	32.9
85°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	23.0	19.8	19.8
87.5°	13.1	16.4	16.4	16.4	16.4	16.4	16.4	13.1	13.1	13.1	9.9
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9
2.5°	2706.7	2706.7	2713.2	2703.4	2719.9	2710.0	2706.7	2723.1	2713.2	2710.0	2716.5
5°	2683.7	2687.0	2690.2	2683.7	2700.1	2690.2	2690.2	2706.7	2700.1	2696.8	2706.7
7.5°	2654.2	2657.4	2663.9	2660.7	2673.8	2667.3	2670.6	2687.0	2680.4	2680.4	2690.2
10°	2618.0	2624.5	2631.2	2631.2	2647.5	2640.9	2640.9	2660.7	2654.2	2657.4	2670.6
12.5°	2575.2	2585.1	2595.0	2598.3	2614.8	2604.9	2608.1	2631.2	2627.9	2631.2	2644.3
15°	2529.3	2542.5	2552.3	2552.3	2572.0	2562.1	2572.0	2595.0	2588.4	2601.5	2618.0
17.5°	2476.8	2489.9	2503.0	2506.3	2526.1	2519.4	2532.6	2555.6	2555.6	2562.1	2581.9
20°	2427.5	2443.9	2450.5	2460.4	2480.0	2476.8	2483.3	2509.6	2509.6	2519.4	2539.2
22.5°	2361.8	2378.2	2391.3	2401.2	2417.6	2417.6	2427.5	2450.5	2450.5	2457.0	2476.8
25°	2289.5	2309.2	2319.0	2328.9	2345.4	2342.0	2351.9	2371.7	2374.9	2381.4	2401.2
27.5°	2197.5	2213.9	2227.1	2233.7	2256.7	2243.6	2253.3	2276.4	2273.1	2279.6	2296.1
30°	2082.6	2099.0	2112.1	2112.1	2131.8	2131.8	2141.7	2151.5	2151.5	2158.1	2171.3
32.5°	1947.9	1967.6	1967.6	1977.5	1990.6	1977.5	1990.6	2003.7	1997.1	2007.0	2016.9
35°	1793.4	1803.3	1806.7	1806.7	1816.5	1813.2	1809.9	1819.8	1813.2	1829.6	1839.5
37.5°	1606.3	1619.4	1612.9	1619.4	1616.1	1606.3	1606.3	1622.7	1609.5	1612.9	1622.7
40°	1425.6	1425.6	1422.4	1406.0	1409.2	1399.3	1396.1	1399.3	1386.2	1382.9	1396.1
42.5°	1238.3	1235.1	1225.2	1202.3	1205.5	1189.0	1176.0	1176.0	1169.4	1166.1	1169.4
45°	1070.8	1060.9	1044.5	1018.3	1011.7	998.6	972.3	965.7	955.8	955.8	959.2
47.5°	916.4	903.3	877.0	847.5	831.1	814.6	788.3	778.4	762.0	755.5	762.0
50°	788.3	765.4	732.5	689.8	673.3	653.7	627.4	611.0	594.5	588.0	584.6
52.5°	670.1	637.3	604.4	551.9	538.7	519.0	482.9	466.4	450.0	436.9	436.9
55°	568.2	538.7	492.7	443.5	423.7	404.0	367.9	344.9	328.5	321.9	315.4
57.5°	476.3	443.5	400.7	348.2	328.5	308.8	272.6	249.6	233.2	223.3	216.8
60°	400.7	364.6	321.9	276.0	253.0	233.2	197.1	174.0	157.6	147.9	141.2
62.5°	328.5	298.9	256.2	213.6	193.8	174.0	144.5	121.5	105.1	98.6	88.7
65°	276.0	246.3	206.9	170.8	154.4	134.6	108.5	88.7	75.6	65.7	59.2
67.5°	223.3	200.4	167.5	134.6	118.2	105.1	82.1	65.7	52.5	46.0	42.7
70°	177.4	154.4	128.1	101.8	92.0	78.8	62.4	46.0	39.4	32.9	29.5
72.5°	131.4	115.0	95.2	75.6	65.7	59.2	42.7	36.2	26.3	23.0	19.8
75°	95.2	82.1	68.9	52.5	46.0	42.7	32.9	23.0	19.8	16.4	13.1
77.5°	65.7	59.2	46.0	36.2	32.9	29.5	23.0	16.4	13.1	9.9	9.9
80°	42.7	36.2	29.5	23.0	23.0	19.8	13.1	9.9	9.9	6.5	6.5
82.5°	26.3	23.0	19.8	16.4	13.1	13.1	9.9	6.5	6.5	3.3	3.3
85°	16.4	13.1	9.9	9.9	6.5	6.5	6.5	3.3	3.3	3.3	3.3
87.5°	6.5	6.5	6.5	3.3	3.3	3.3	3.3	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°	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9
2.5°	2716.5	2716.5	2723.1	2713.2	2719.9	2719.9	2726.4	2713.2	2719.9	2723.1	2729.6
5°	2703.4	2706.7	2713.2	2710.0	2713.2	2713.2	2719.9	2703.4	2716.5	2716.5	2726.4
7.5°	2690.2	2690.2	2696.8	2693.6	2700.1	2703.4	2710.0	2696.8	2710.0	2710.0	2719.9
10°	2673.8	2673.8	2683.7	2680.4	2690.2	2693.6	2703.4	2690.2	2703.4	2706.7	2716.5
12.5°	2650.8	2654.2	2663.9	2663.9	2673.8	2680.4	2690.2	2683.7	2700.1	2703.4	2716.5
15°	2624.5	2631.2	2644.3	2640.9	2650.8	2660.7	2673.8	2663.9	2687.0	2693.6	2706.7
17.5°	2591.7	2598.3	2608.1	2608.1	2618.0	2624.5	2640.9	2634.4	2654.2	2657.4	2673.8
20°	2542.5	2552.3	2565.5	2562.1	2572.0	2578.6	2591.7	2585.1	2604.9	2611.4	2627.9
22.5°	2483.3	2489.9	2499.8	2499.8	2509.6	2516.2	2529.3	2519.4	2539.2	2542.5	2555.6
25°	2404.5	2411.1	2417.6	2421.0	2430.7	2434.0	2440.6	2434.0	2450.5	2453.8	2470.1
27.5°	2302.6	2305.9	2315.8	2315.8	2322.4	2325.6	2335.5	2322.4	2345.4	2345.4	2355.2
30°	2181.1	2177.9	2190.9	2184.4	2190.9	2190.9	2200.8	2194.3	2210.7	2204.2	2213.9
32.5°	2020.1	2026.8	2026.8	2020.1	2033.3	2030.0	2030.0	2023.4	2033.3	2036.5	2043.1
35°	1833.0	1842.7	1842.7	1846.1	1849.4	1839.5	1842.7	1823.1	1839.5	1842.7	1846.1
37.5°	1629.3	1619.4	1625.9	1616.1	1632.5	1612.9	1612.9	1599.8	1612.9	1612.9	1616.1
40°	1396.1	1392.7	1399.3	1392.7	1389.5	1386.2	1379.6	1369.8	1382.9	1376.3	1386.2
42.5°	1176.0	1172.6	1172.6	1166.1	1162.9	1162.9	1156.3	1149.6	1146.4	1146.4	1162.9
45°	949.3	955.8	949.3	946.1	952.6	946.1	949.3	936.2	942.7	936.2	942.7
47.5°	758.8	762.0	755.5	748.9	758.8	748.9	748.9	739.0	752.3	752.3	745.6
50°	588.0	584.6	578.1	584.6	581.4	581.4	581.4	571.5	578.1	568.2	574.9
52.5°	433.6	430.4	430.4	427.0	430.4	427.0	427.0	423.7	423.7	420.5	423.7
55°	315.4	312.0	305.5	305.5	305.5	308.8	305.5	302.3	302.3	298.9	302.3
57.5°	213.6	206.9	206.9	206.9	206.9	203.7	203.7	200.4	203.7	200.4	203.7
60°	138.0	138.0	131.4	131.4	131.4	131.4	131.4	128.1	131.4	131.4	131.4
62.5°	85.4	85.4	82.1	78.8	82.1	78.8	78.8	78.8	82.1	78.8	82.1
65°	55.8	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
67.5°	39.4	36.2	36.2	36.2	36.2	36.2	36.2	32.9	36.2	36.2	36.2
70°	26.3	26.3	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
72.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
75°	13.1	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
77.5°	9.9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	6.5	6.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	3.3	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	3.3	3.3	3.3	3.3	3.3	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	0.0	0.0	0.0





TEST NUMBER: P684321

CATALOG NUMBER: LX6C45D010 EX6C459050 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9
2.5°	2719.9	2723.1	2716.5	2719.9	2713.2	2719.9	2723.1	2729.6
5°	2713.2	2716.5	2710.0	2716.5	2710.0	2716.5	2719.9	2726.4
7.5°	2706.7	2713.2	2706.7	2713.2	2706.7	2713.2	2716.5	2723.1
10°	2706.7	2716.5	2710.0	2719.9	2710.0	2716.5	2723.1	2726.4
12.5°	2706.7	2716.5	2713.2	2719.9	2716.5	2723.1	2729.6	2736.2
15°	2700.1	2710.0	2703.4	2713.2	2710.0	2713.2	2726.4	2726.4
17.5°	2663.9	2673.8	2673.8	2680.4	2680.4	2690.2	2696.8	2703.4
20°	2618.0	2627.9	2624.5	2634.4	2634.4	2644.3	2650.8	2657.4
22.5°	2549.0	2562.1	2558.8	2568.7	2565.5	2572.0	2585.1	2581.9
25°	2460.4	2476.8	2473.4	2480.0	2476.8	2476.8	2483.3	2486.5
27.5°	2351.9	2361.8	2358.4	2365.1	2358.4	2365.1	2371.7	2374.9
30°	2210.7	2217.3	2213.9	2217.3	2213.9	2220.5	2223.8	2230.4
32.5°	2039.9	2049.8	2039.9	2046.4	2043.1	2043.1	2056.3	2049.8
35°	1836.2	1839.5	1842.7	1842.7	1836.2	1839.5	1846.1	1846.1
37.5°	1609.5	1625.9	1606.3	1616.1	1612.9	1612.9	1612.9	1622.7
40°	1373.1	1376.3	1369.8	1369.8	1369.8	1366.4	1379.6	1376.3
42.5°	1149.6	1153.0	1149.6	1139.9	1143.1	1143.1	1153.0	1139.9
45°	932.9	939.4	936.2	936.2	929.6	929.6	932.9	926.3
47.5°	739.0	745.6	735.8	739.0	732.5	739.0	735.8	742.4
50°	561.7	568.2	565.0	568.2	568.2	561.7	571.5	558.5
52.5°	420.5	423.7	420.5	417.1	413.9	413.9	420.5	417.1
55°	298.9	295.6	295.6	295.6	298.9	298.9	295.6	292.4
57.5°	200.4	200.4	197.1	197.1	200.4	193.8	197.1	193.8
60°	128.1	128.1	128.1	128.1	124.9	128.1	128.1	128.1
62.5°	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
65°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
67.5°	32.9	36.2	36.2	36.2	32.9	32.9	32.9	32.9
70°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
72.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
75°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)