

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: P683943

Luminaire Tested: **LX6C120D010 EX6C1209027 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P683943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C120D010 EX6C1209027 6LBLWWH  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

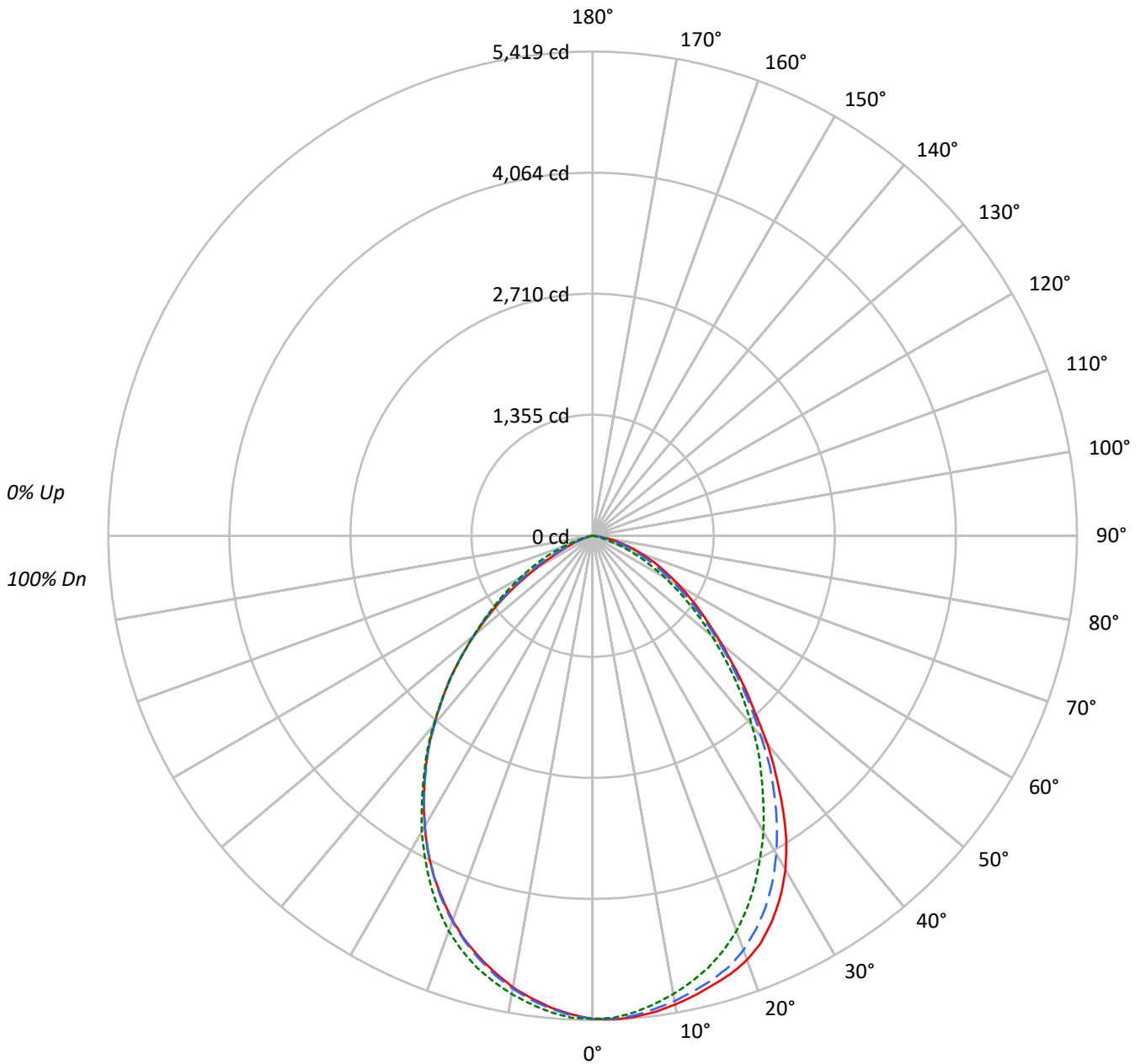
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9834.0 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 142.3  
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	296380	296380	296380
5°	297407	294711	291811
10°	296499	289924	285677
15°	295382	283935	277334
20°	294726	274581	267266
25°	287557	259854	254138
30°	273207	242031	238005
35°	247977	220371	218912
40°	217572	198322	197284
45°	186539	173289	174700
50°	160566	147705	146929
55°	140344	124708	117062
60°	123334	102218	79895
65°	107962	79204	48086
70°	92051	53310	28258
75°	74281	27705	15399
80°	51648	10892	8619
85°	20568	3459	4592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.6	5.2
10°-20°	1414.6	14.4
20°-30°	2013.0	20.5
30°-40°	2118.7	21.5
40°-50°	1765.7	18.0
50°-60°	1192.9	12.1
60°-70°	604.8	6.2
70°-80°	195.2	2.0
80°-90°	22.4	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°	3934.2	40.0
0°-40°	6052.9	61.6
0°-60°	9011.5	91.6
0°-90°	9834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5406	5406	5406	5406	5406	
5°	5404	5388	5356	5316	5303	513
15°	5205	5148	5003	4903	4887	1471
25°	4754	4581	4296	4207	4202	2179
35°	3705	3546	3293	3260	3271	2306
45°	2406	2344	2235	2244	2253	1862
55°	1468	1398	1305	1265	1225	1322
65°	832	750	611	442	371	828
75°	351	274	131	71	73	379
85°	33	18	6	7	7	56
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°	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4
2.5°	5419.1	5419.1	5419.1	5419.1	5419.1	5419.1	5417.3	5417.3	5413.6	5413.6	5411.8
5°	5404.5	5406.4	5406.4	5404.5	5404.5	5400.9	5400.9	5399.1	5393.6	5390.0	5388.2
7.5°	5373.7	5373.7	5371.8	5370.0	5368.2	5362.7	5360.9	5355.5	5351.8	5348.2	5340.9
10°	5326.4	5326.4	5324.6	5321.0	5319.1	5315.5	5315.5	5308.2	5301.0	5291.9	5286.4
12.5°	5270.1	5271.9	5268.3	5266.4	5261.0	5259.2	5255.5	5246.4	5241.0	5230.1	5221.0
15°	5204.6	5208.3	5208.3	5201.0	5195.6	5193.7	5188.3	5182.8	5170.1	5159.2	5148.3
17.5°	5141.0	5144.7	5141.0	5135.6	5130.1	5122.9	5119.2	5108.3	5092.0	5077.4	5061.1
20°	5052.0	5057.4	5050.2	5041.1	5030.2	5028.4	5022.9	5004.7	4981.1	4959.3	4935.7
22.5°	4926.6	4923.0	4917.5	4913.9	4895.7	4884.8	4877.5	4853.9	4828.5	4799.4	4770.3
25°	4754.0	4761.2	4750.3	4734.0	4724.9	4714.0	4695.8	4670.4	4646.7	4615.9	4581.3
27.5°	4550.4	4550.4	4535.9	4530.4	4510.5	4495.9	4486.8	4461.4	4430.5	4399.6	4361.4
30°	4316.0	4305.1	4305.1	4279.7	4263.3	4257.9	4248.8	4207.0	4179.7	4147.0	4108.8
32.5°	4032.5	4030.7	4023.4	4007.1	3985.3	3967.1	3967.1	3938.0	3901.7	3861.7	3838.1
35°	3705.4	3707.2	3703.6	3685.4	3685.4	3663.6	3660.0	3634.5	3605.5	3574.6	3545.5
37.5°	3367.4	3374.7	3367.4	3358.3	3352.9	3351.0	3334.7	3316.5	3294.7	3276.5	3254.7
40°	3040.3	3029.4	3033.0	3014.8	3016.7	3013.0	3005.8	2982.1	2969.4	2951.2	2927.6
42.5°	2687.7	2698.6	2702.3	2691.4	2687.7	2680.5	2687.7	2678.6	2664.1	2655.0	2633.2
45°	2406.1	2395.2	2400.6	2397.0	2398.8	2384.3	2378.8	2375.2	2369.7	2353.4	2344.3
47.5°	2126.2	2128.0	2126.2	2118.9	2115.3	2115.3	2108.0	2097.1	2097.1	2086.2	2079.0
50°	1882.7	1882.7	1886.3	1877.2	1873.6	1866.3	1868.1	1857.2	1850.0	1840.9	1835.4
52.5°	1659.2	1661.0	1653.7	1655.5	1651.9	1651.9	1644.6	1637.4	1630.1	1613.7	1610.1
55°	1468.4	1470.2	1461.1	1464.7	1453.8	1448.4	1444.7	1433.8	1433.8	1417.5	1397.5
57.5°	1290.3	1288.4	1286.6	1281.2	1273.9	1268.5	1263.0	1250.3	1244.8	1233.9	1217.6
60°	1124.9	1123.1	1119.4	1117.6	1112.2	1099.4	1099.4	1090.4	1072.2	1061.3	1044.9
62.5°	968.6	968.6	966.8	961.3	955.9	950.4	946.8	939.5	921.4	908.6	894.1
65°	832.3	830.5	825.0	816.0	812.3	812.3	799.6	794.1	779.6	766.9	750.5
67.5°	701.5	694.2	690.6	692.4	681.5	681.5	670.6	661.5	648.8	627.0	614.2
70°	574.3	570.6	567.0	563.4	561.5	554.3	548.8	537.9	525.2	508.8	488.8
72.5°	459.8	459.8	454.3	450.7	445.2	438.0	434.3	425.2	410.7	392.5	378.0
75°	350.7	350.7	350.7	343.5	339.8	336.2	325.3	319.8	303.5	292.6	274.4
77.5°	258.1	254.4	249.0	247.1	243.5	239.9	234.4	225.3	210.8	198.1	187.2
80°	163.6	169.0	163.6	163.6	154.5	150.8	149.0	138.1	132.7	121.8	112.7
82.5°	90.9	92.7	89.0	87.2	81.8	80.0	80.0	72.7	69.1	61.8	56.3
85°	32.7	34.5	32.7	32.7	29.1	30.9	29.1	27.3	23.6	20.0	18.2
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4
2.5°	5411.8	5408.2	5408.2	5406.4	5404.5	5404.5	5404.5	5402.7	5399.1	5399.1	5397.3
5°	5384.6	5380.9	5375.5	5371.8	5370.0	5368.2	5366.4	5364.6	5357.3	5355.5	5350.0
7.5°	5335.5	5331.9	5322.8	5319.1	5313.7	5311.9	5304.6	5301.0	5293.7	5286.4	5282.8
10°	5277.3	5268.3	5261.0	5251.9	5248.3	5242.8	5233.7	5222.8	5217.4	5208.3	5201.0
12.5°	5211.9	5201.0	5186.5	5175.6	5171.9	5162.8	5148.3	5139.2	5126.5	5112.0	5099.2
15°	5130.1	5117.4	5104.7	5084.7	5079.3	5068.4	5053.8	5035.6	5017.5	5002.9	4988.4
17.5°	5041.1	5021.1	5001.1	4979.3	4963.0	4957.5	4933.9	4908.4	4892.1	4866.6	4850.3
20°	4915.7	4888.4	4855.7	4833.9	4819.4	4803.0	4775.8	4748.5	4728.5	4706.7	4683.1
22.5°	4743.1	4717.6	4679.5	4646.7	4635.8	4612.2	4588.6	4563.2	4537.7	4514.1	4485.0
25°	4539.5	4512.3	4474.1	4441.4	4423.2	4412.3	4366.9	4341.4	4316.0	4296.0	4276.0
27.5°	4330.5	4281.5	4256.0	4205.2	4188.8	4185.2	4143.4	4116.1	4088.8	4061.6	4036.1
30°	4072.5	4034.3	3996.2	3959.8	3938.0	3925.3	3894.4	3859.9	3841.7	3823.5	3798.1
32.5°	3805.4	3770.8	3723.6	3689.0	3672.7	3654.5	3627.3	3603.6	3576.4	3556.4	3550.9
35°	3520.0	3481.9	3441.9	3416.5	3412.8	3391.0	3363.8	3343.8	3323.8	3292.9	3287.4
37.5°	3214.7	3192.9	3165.7	3129.3	3113.0	3113.0	3085.7	3071.2	3045.7	3043.9	3029.4
40°	2914.9	2905.8	2864.0	2853.1	2849.5	2824.0	2816.8	2791.3	2773.1	2771.3	2749.5
42.5°	2618.7	2595.1	2587.8	2569.6	2553.3	2549.6	2533.3	2522.4	2515.1	2504.2	2493.3
45°	2324.3	2318.8	2300.7	2287.9	2282.5	2275.2	2269.8	2248.0	2244.3	2235.2	2229.8
47.5°	2069.9	2055.3	2039.0	2024.4	2022.6	2011.7	1999.0	1999.0	1979.0	1977.2	1973.5
50°	1817.3	1806.4	1797.3	1777.3	1780.9	1766.4	1764.6	1748.2	1739.1	1731.9	1740.9
52.5°	1595.6	1573.8	1570.1	1553.8	1548.3	1550.1	1530.1	1524.7	1521.1	1513.8	1510.1
55°	1384.8	1373.9	1359.3	1348.4	1339.3	1330.2	1323.0	1323.0	1303.0	1304.8	1295.7
57.5°	1199.4	1190.3	1172.1	1155.8	1152.1	1141.2	1132.2	1123.1	1121.3	1108.5	1099.4
60°	1034.0	1017.7	994.0	986.8	975.9	966.8	957.7	946.8	941.3	932.3	915.9
62.5°	879.6	852.3	843.2	828.7	816.0	810.5	796.0	783.2	774.2	761.4	748.7
65°	732.4	712.4	696.0	679.7	677.8	663.3	650.6	639.7	621.5	610.6	587.0
67.5°	597.9	579.7	561.5	545.2	532.5	528.8	508.8	496.1	483.4	461.6	441.6
70°	474.3	456.1	441.6	421.6	416.2	401.6	387.1	374.4	352.5	332.6	316.2
72.5°	361.6	341.6	325.3	310.8	301.7	288.9	274.4	259.9	238.1	218.1	203.5
75°	258.1	243.5	227.2	212.6	205.4	198.1	181.7	165.4	150.8	130.8	118.1
77.5°	174.5	159.9	145.4	132.7	123.6	118.1	107.2	94.5	81.8	70.9	61.8
80°	101.8	92.7	81.8	70.9	69.1	63.6	54.5	47.2	40.0	34.5	27.3
82.5°	49.1	43.6	36.3	30.9	27.3	25.4	21.8	18.2	14.5	12.7	12.7
85°	14.5	12.7	10.9	9.1	7.3	7.3	5.5	5.5	5.5	5.5	5.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4
2.5°	5391.8	5390.0	5388.2	5386.4	5382.7	5382.7	5377.3	5373.7	5373.7	5370.0	5368.2
5°	5344.6	5339.1	5337.3	5333.7	5330.0	5328.2	5321.0	5319.1	5315.5	5311.9	5311.9
7.5°	5277.3	5270.1	5262.8	5259.2	5257.3	5251.9	5248.3	5246.4	5241.0	5237.4	5230.1
10°	5188.3	5182.8	5173.8	5170.1	5166.5	5162.8	5153.8	5148.3	5146.5	5142.9	5139.2
12.5°	5084.7	5077.4	5068.4	5061.1	5057.4	5052.0	5042.9	5037.5	5037.5	5030.2	5030.2
15°	4973.9	4963.0	4946.6	4939.3	4937.5	4926.6	4919.3	4912.1	4903.0	4899.3	4899.3
17.5°	4832.1	4813.9	4799.4	4799.4	4792.1	4781.2	4770.3	4764.9	4759.4	4752.1	4748.5
20°	4664.9	4652.2	4635.8	4635.8	4619.5	4615.9	4604.9	4603.1	4590.4	4592.2	4586.8
22.5°	4463.2	4455.9	4446.8	4439.6	4430.5	4419.6	4414.1	4416.0	4410.5	4408.7	4406.9
25°	4259.7	4239.7	4228.8	4225.1	4221.5	4212.4	4208.8	4207.0	4207.0	4201.5	4203.3
27.5°	4025.2	4010.7	3996.2	4001.6	3994.3	3988.9	3985.3	3979.8	3983.4	3981.6	3983.4
30°	3785.4	3767.2	3758.1	3761.7	3759.9	3745.4	3752.7	3750.8	3752.7	3752.7	3756.3
32.5°	3532.8	3520.0	3518.2	3520.0	3503.7	3505.5	3498.2	3509.1	3511.0	3521.9	3512.8
35°	3276.5	3269.3	3256.5	3254.7	3256.5	3254.7	3254.7	3262.0	3260.2	3271.1	3267.4
37.5°	3013.0	3009.4	2996.7	3000.3	2993.0	3005.8	3009.4	3005.8	3018.5	3014.8	3013.0
40°	2755.0	2749.5	2742.3	2756.8	2747.7	2740.4	2753.2	2742.3	2745.9	2756.8	2756.8
42.5°	2493.3	2484.2	2484.2	2484.2	2482.4	2482.4	2487.8	2493.3	2489.7	2491.5	2506.0
45°	2229.8	2228.0	2222.5	2226.1	2224.3	2233.4	2233.4	2237.1	2244.3	2251.6	2248.0
47.5°	1975.4	1971.7	1977.2	1973.5	1975.4	1969.9	1973.5	1984.5	1993.5	1980.8	1993.5
50°	1737.3	1730.0	1728.2	1733.7	1731.9	1730.0	1733.7	1733.7	1730.0	1730.0	1742.8
52.5°	1510.1	1502.9	1497.4	1506.5	1501.1	1502.9	1495.6	1495.6	1499.2	1495.6	1490.2
55°	1297.5	1292.1	1284.8	1288.4	1279.4	1277.5	1270.3	1270.3	1264.8	1261.2	1250.3
57.5°	1094.0	1090.4	1074.0	1072.2	1074.0	1061.3	1048.6	1043.1	1028.6	1024.9	1023.1
60°	914.1	894.1	885.0	874.1	866.8	861.4	846.8	837.8	816.0	803.2	801.4
62.5°	726.9	717.8	706.9	690.6	686.9	668.8	654.2	630.6	619.7	603.3	587.0
65°	576.1	552.4	536.1	527.0	512.5	496.1	479.8	454.3	441.6	421.6	405.3
67.5°	421.6	401.6	379.8	372.5	359.8	339.8	323.5	301.7	290.8	272.6	267.1
70°	288.9	270.8	254.4	243.5	234.4	214.4	198.1	190.8	179.9	176.3	176.3
72.5°	185.4	169.0	150.8	145.4	138.1	127.2	116.3	112.7	116.3	114.5	114.5
75°	103.6	94.5	81.8	76.3	76.3	72.7	70.9	70.9	70.9	70.9	70.9
77.5°	52.7	47.2	43.6	41.8	41.8	41.8	43.6	43.6	43.6	45.4	43.6
80°	25.4	23.6	23.6	23.6	25.4	25.4	25.4	25.4	25.4	27.3	25.4
82.5°	12.7	12.7	12.7	12.7	12.7	12.7	14.5	14.5	14.5	14.5	14.5
85°	5.5	5.5	5.5	5.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P683943

CATALOG NUMBER: LX6C120D010 EX6C1209027 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4	5406.4
2.5°	5366.4	5362.7	5362.7	5360.9	5360.9	5360.9	5360.9	5362.7
5°	5308.2	5306.4	5306.4	5302.8	5302.8	5302.8	5302.8	5302.8
7.5°	5230.1	5226.5	5228.3	5224.6	5224.6	5226.5	5224.6	5222.8
10°	5133.8	5132.0	5133.8	5133.8	5130.1	5128.3	5130.1	5132.0
12.5°	5024.7	5022.9	5019.3	5021.1	5021.1	5019.3	5017.5	5013.8
15°	4897.5	4895.7	4893.9	4892.1	4890.3	4892.1	4890.3	4886.6
17.5°	4748.5	4748.5	4746.7	4744.9	4743.1	4739.4	4741.2	4746.7
20°	4588.6	4586.8	4583.1	4585.0	4577.7	4574.1	4575.9	4581.3
22.5°	4405.1	4399.6	4403.2	4397.8	4397.8	4399.6	4397.8	4394.1
25°	4205.2	4197.9	4201.5	4203.3	4203.3	4201.5	4199.7	4201.5
27.5°	3983.4	3988.9	3988.9	3985.3	3990.7	3983.4	3987.1	3988.9
30°	3756.3	3750.8	3749.0	3756.3	3767.2	3758.1	3758.1	3759.9
32.5°	3521.9	3514.6	3514.6	3518.2	3516.4	3516.4	3523.7	3514.6
35°	3271.1	3274.7	3260.2	3269.3	3272.9	3269.3	3271.1	3271.1
37.5°	3018.5	3014.8	3014.8	3014.8	3020.3	3020.3	3023.9	3022.1
40°	2769.5	2762.2	2760.4	2764.1	2756.8	2762.2	2762.2	2756.8
42.5°	2500.6	2502.4	2511.5	2502.4	2504.2	2502.4	2498.7	2496.9
45°	2251.6	2257.0	2253.4	2251.6	2253.4	2246.1	2248.0	2253.4
47.5°	1988.1	1999.0	1988.1	1995.4	1993.5	1989.9	1986.3	1979.0
50°	1740.9	1744.6	1742.8	1740.9	1739.1	1737.3	1728.2	1722.8
52.5°	1488.3	1488.3	1488.3	1488.3	1470.2	1479.3	1475.6	1464.7
55°	1241.2	1246.6	1239.4	1239.4	1226.7	1226.7	1223.0	1224.8
57.5°	1003.1	997.7	992.2	992.2	979.5	974.1	968.6	961.3
60°	781.4	776.0	768.7	759.6	746.9	746.9	743.3	728.7
62.5°	572.4	563.4	557.9	550.6	539.7	532.5	527.0	530.6
65°	392.5	383.4	376.2	376.2	376.2	372.5	370.7	370.7
67.5°	258.1	263.5	259.9	263.5	263.5	259.9	258.1	261.7
70°	178.1	178.1	176.3	176.3	176.3	176.3	174.5	176.3
72.5°	114.5	114.5	114.5	116.3	114.5	114.5	116.3	116.3
75°	72.7	72.7	72.7	74.5	72.7	72.7	74.5	72.7
77.5°	43.6	45.4	45.4	45.4	45.4	43.6	45.4	45.4
80°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
82.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
85°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)