

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: P683995

Luminaire Tested: **LX6C130D010 EX6C1309030 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P683995  
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: LX6C130D010 EX6C1309030 6LBLWWH  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

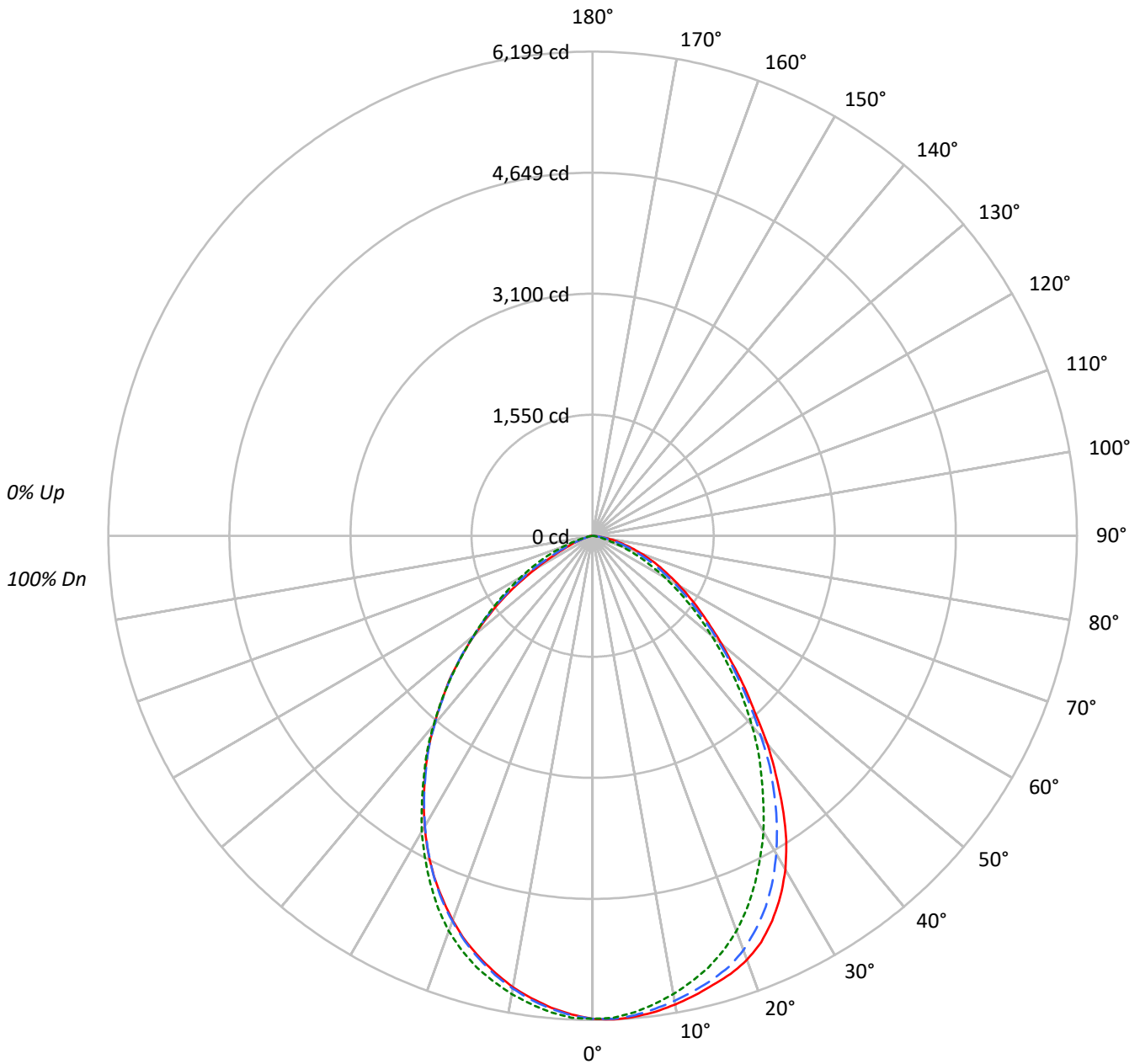
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11249.0 lumens  
Efficiency: N/A  
Efficacy: 78.0 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): 144.3  
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°	339024	339024	339024
5°	340204	337117	333798
10°	339161	331640	326781
15°	337885	324792	317244
20°	337132	314094	305722
25°	328930	297247	290708
30°	312516	276859	272251
35°	283660	252079	250406
40°	248873	226861	225673
45°	213379	198230	199835
50°	183670	168950	168071
55°	160530	142647	133912
60°	141074	116920	91396
65°	123502	90606	55012
70°	105290	60972	32313
75°	84978	31708	17601
80°	59067	12470	9850
85°	23524	3900	5221



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.5	5.2
10°-20°	1618.1	14.4
20°-30°	2302.6	20.5
30°-40°	2423.6	21.5
40°-50°	2019.8	18.0
50°-60°	1364.6	12.1
60°-70°	691.8	6.2
70°-80°	223.3	2.0
80°-90°	25.7	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°	4500.3	40.0
0°-40°	6923.9	61.6
0°-60°	10308.2	91.6
0°-90°	11249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11249.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6184	6184	6184	6184	6184	
5°	6182	6164	6126	6080	6066	587
15°	5954	5889	5723	5608	5590	1682
25°	5438	5240	4914	4812	4806	2492
35°	4239	4056	3767	3729	3742	2638
45°	2752	2682	2557	2567	2578	2130
55°	1680	1599	1492	1447	1401	1512
65°	952	858	698	505	424	948
75°	401	314	150	81	83	433
85°	37	21	6	8	8	64
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°	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3
2.5°	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6196.7	6196.7	6192.6	6192.6	6190.5
5°	6182.2	6184.3	6184.3	6182.2	6182.2	6178.0	6178.0	6176.0	6169.7	6165.6	6163.5
7.5°	6146.9	6146.9	6144.8	6142.7	6140.6	6134.4	6132.3	6126.1	6121.9	6117.8	6109.4
10°	6092.8	6092.8	6090.7	6086.6	6084.5	6080.3	6080.3	6072.0	6063.7	6053.3	6047.1
12.5°	6028.4	6030.4	6026.3	6024.2	6018.0	6015.9	6011.7	6001.3	5995.1	5982.6	5972.2
15°	5953.5	5957.7	5957.7	5949.4	5943.1	5941.1	5934.8	5928.6	5914.0	5901.6	5889.1
17.5°	5880.8	5884.9	5880.8	5874.5	5868.3	5860.0	5855.8	5843.4	5824.7	5808.0	5789.3
20°	5778.9	5785.2	5776.8	5766.4	5754.0	5751.9	5745.7	5724.9	5697.8	5672.9	5645.9
22.5°	5635.5	5631.3	5625.1	5620.9	5600.1	5587.7	5579.4	5552.3	5523.2	5490.0	5456.7
25°	5438.0	5446.3	5433.8	5415.1	5404.7	5392.3	5371.5	5342.4	5315.4	5280.0	5240.5
27.5°	5205.2	5205.2	5188.6	5182.3	5159.5	5142.8	5132.4	5103.3	5068.0	5032.7	4989.0
30°	4937.0	4924.6	4924.6	4895.5	4876.7	4870.5	4860.1	4812.3	4781.1	4743.7	4700.1
32.5°	4612.7	4610.7	4602.3	4583.6	4558.7	4537.9	4537.9	4504.6	4463.1	4417.3	4390.3
35°	4238.6	4240.6	4236.5	4215.7	4215.7	4190.8	4186.6	4157.5	4124.2	4088.9	4055.6
37.5°	3851.9	3860.2	3851.9	3841.5	3835.3	3833.2	3814.5	3793.7	3768.8	3748.0	3723.0
40°	3477.7	3465.3	3469.4	3448.6	3450.7	3446.6	3438.2	3411.2	3396.7	3375.9	3348.9
42.5°	3074.5	3086.9	3091.1	3078.6	3074.5	3066.2	3074.5	3064.1	3047.4	3037.1	3012.1
45°	2752.3	2739.8	2746.0	2741.9	2743.9	2727.3	2721.1	2716.9	2710.7	2692.0	2681.6
47.5°	2432.1	2434.2	2432.1	2423.8	2419.7	2419.7	2411.3	2398.9	2398.9	2386.4	2378.1
50°	2153.6	2153.6	2157.7	2147.3	2143.2	2134.9	2137.0	2124.5	2116.2	2105.8	2099.5
52.5°	1897.9	1900.0	1891.7	1893.7	1889.6	1889.6	1881.3	1873.0	1864.6	1845.9	1841.8
55°	1679.6	1681.7	1671.3	1675.5	1663.0	1656.8	1652.6	1640.1	1640.1	1621.4	1598.6
57.5°	1475.9	1473.8	1471.8	1465.5	1457.2	1451.0	1444.7	1430.2	1423.9	1411.5	1392.8
60°	1286.7	1284.7	1280.5	1278.4	1272.2	1257.6	1257.6	1247.2	1226.5	1214.0	1195.3
62.5°	1108.0	1108.0	1105.9	1099.7	1093.4	1087.2	1083.0	1074.7	1053.9	1039.4	1022.7
65°	952.1	950.0	943.8	933.4	929.2	929.2	914.6	908.4	891.8	877.2	858.5
67.5°	802.4	794.1	789.9	792.0	779.5	779.5	767.1	756.7	742.1	717.2	702.6
70°	656.9	652.7	648.6	644.4	642.3	634.0	627.8	615.3	600.8	582.0	559.2
72.5°	525.9	525.9	519.7	515.5	509.3	501.0	496.8	486.4	469.8	449.0	432.4
75°	401.2	401.2	401.2	392.9	388.7	384.6	372.1	365.9	347.2	334.7	313.9
77.5°	295.2	291.0	284.8	282.7	278.6	274.4	268.2	257.8	241.1	226.6	214.1
80°	187.1	193.3	187.1	187.1	176.7	172.5	170.5	158.0	151.7	139.3	128.9
82.5°	103.9	106.0	101.9	99.8	93.5	91.5	91.5	83.1	79.0	70.7	64.4
85°	37.4	39.5	37.4	37.4	33.3	35.3	33.3	31.2	27.0	22.9	20.8
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3
2.5°	6190.5	6186.4	6186.4	6184.3	6182.2	6182.2	6182.2	6180.1	6176.0	6176.0	6173.9
5°	6159.3	6155.2	6148.9	6144.8	6142.7	6140.6	6138.5	6136.5	6128.2	6126.1	6119.8
7.5°	6103.2	6099.0	6088.7	6084.5	6078.3	6076.2	6067.9	6063.7	6055.4	6047.1	6042.9
10°	6036.7	6026.3	6018.0	6007.6	6003.4	5997.2	5986.8	5974.3	5968.1	5957.7	5949.4
12.5°	5961.9	5949.4	5932.7	5920.3	5916.1	5905.7	5889.1	5878.7	5864.1	5847.5	5833.0
15°	5868.3	5853.8	5839.2	5816.3	5810.1	5797.6	5781.0	5760.2	5739.4	5722.8	5706.2
17.5°	5766.4	5743.6	5720.7	5695.8	5677.1	5670.8	5643.8	5614.7	5596.0	5566.9	5548.2
20°	5623.0	5591.8	5554.4	5529.5	5512.8	5494.1	5463.0	5431.8	5408.9	5384.0	5356.9
22.5°	5425.5	5396.4	5352.8	5315.4	5302.9	5275.9	5248.8	5219.7	5190.6	5163.6	5130.4
25°	5192.7	5161.5	5117.9	5080.5	5059.7	5047.2	4995.2	4966.1	4937.0	4914.2	4891.3
27.5°	4953.7	4897.5	4868.4	4810.2	4791.5	4787.4	4739.5	4708.4	4677.2	4646.0	4616.9
30°	4658.5	4614.8	4571.2	4529.6	4504.6	4490.1	4454.8	4415.3	4394.5	4373.7	4344.6
32.5°	4352.9	4313.4	4259.4	4219.9	4201.2	4180.4	4149.2	4122.2	4091.0	4068.1	4061.9
35°	4026.5	3982.9	3937.1	3908.0	3903.9	3878.9	3847.8	3824.9	3802.0	3766.7	3760.5
37.5°	3677.3	3652.4	3621.2	3579.6	3560.9	3560.9	3529.7	3513.1	3484.0	3481.9	3465.3
40°	3334.3	3323.9	3276.1	3263.6	3259.5	3230.4	3222.1	3193.0	3172.2	3170.1	3145.1
42.5°	2995.5	2968.5	2960.1	2939.4	2920.6	2916.5	2897.8	2885.3	2877.0	2864.5	2852.0
45°	2658.7	2652.5	2631.7	2617.1	2610.9	2602.6	2596.4	2571.4	2567.3	2556.9	2550.6
47.5°	2367.7	2351.1	2332.4	2315.7	2313.6	2301.2	2286.6	2286.6	2263.8	2261.7	2257.5
50°	2078.7	2066.3	2055.9	2033.0	2037.2	2020.5	2018.5	1999.8	1989.4	1981.0	1991.4
52.5°	1825.1	1800.2	1796.0	1777.3	1771.1	1773.2	1750.3	1744.1	1739.9	1731.6	1727.4
55°	1584.0	1571.5	1554.9	1542.4	1532.0	1521.6	1513.3	1513.3	1490.5	1492.5	1482.1
57.5°	1372.0	1361.6	1340.8	1322.1	1317.9	1305.5	1295.1	1284.7	1282.6	1268.0	1257.6
60°	1182.8	1164.1	1137.1	1128.8	1116.3	1105.9	1095.5	1083.0	1076.8	1066.4	1047.7
62.5°	1006.1	974.9	964.5	947.9	933.4	927.1	910.5	895.9	885.5	871.0	856.4
65°	837.7	814.9	796.2	777.5	775.4	758.7	744.2	731.7	710.9	698.5	671.4
67.5°	683.9	663.1	642.3	623.6	609.1	604.9	582.0	567.5	552.9	528.0	505.1
70°	542.6	521.8	505.1	482.3	476.0	459.4	442.8	428.2	403.3	380.4	361.7
72.5°	413.7	390.8	372.1	355.5	345.1	330.5	313.9	297.3	272.3	249.4	232.8
75°	295.2	278.6	259.8	243.2	234.9	226.6	207.9	189.2	172.5	149.7	135.1
77.5°	199.6	182.9	166.3	151.7	141.4	135.1	122.6	108.1	93.5	81.1	70.7
80°	116.4	106.0	93.5	81.1	79.0	72.8	62.4	54.0	45.7	39.5	31.2
82.5°	56.1	49.9	41.6	35.3	31.2	29.1	24.9	20.8	16.6	14.6	14.6
85°	16.6	14.6	12.5	10.4	8.3	8.3	6.2	6.2	6.2	6.2	6.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3
2.5°	6167.6	6165.6	6163.5	6161.4	6157.3	6157.3	6151.0	6146.9	6146.9	6142.7	6140.6
5°	6113.6	6107.4	6105.3	6101.1	6097.0	6094.9	6086.6	6084.5	6080.3	6076.2	6076.2
7.5°	6036.7	6028.4	6020.1	6015.9	6013.8	6007.6	6003.4	6001.3	5995.1	5991.0	5982.6
10°	5934.8	5928.6	5918.2	5914.0	5909.9	5905.7	5895.3	5889.1	5887.0	5882.9	5878.7
12.5°	5816.3	5808.0	5797.6	5789.3	5785.2	5778.9	5768.5	5762.3	5762.3	5754.0	5754.0
15°	5689.5	5677.1	5658.4	5650.0	5648.0	5635.5	5627.2	5618.9	5608.5	5604.3	5604.3
17.5°	5527.4	5506.6	5490.0	5490.0	5481.7	5469.2	5456.7	5450.5	5444.2	5435.9	5431.8
20°	5336.1	5321.6	5302.9	5302.9	5284.2	5280.0	5267.5	5265.5	5250.9	5253.0	5246.8
22.5°	5105.4	5097.1	5086.7	5078.4	5068.0	5055.5	5049.3	5051.4	5045.1	5043.0	5041.0
25°	4872.6	4849.7	4837.2	4833.1	4828.9	4818.5	4814.4	4812.3	4812.3	4806.1	4808.1
27.5°	4604.4	4587.8	4571.2	4577.4	4569.1	4562.9	4558.7	4552.5	4556.6	4554.5	4556.6
30°	4330.0	4309.2	4298.9	4303.0	4300.9	4284.3	4292.6	4290.5	4292.6	4292.6	4296.8
32.5°	4041.1	4026.5	4024.5	4026.5	4007.8	4009.9	4001.6	4014.1	4016.1	4028.6	4018.2
35°	3748.0	3739.7	3725.1	3723.0	3725.1	3723.0	3723.0	3731.4	3729.3	3741.7	3737.6
37.5°	3446.6	3442.4	3427.9	3432.0	3423.7	3438.2	3442.4	3438.2	3452.8	3448.6	3446.6
40°	3151.4	3145.1	3136.8	3153.5	3143.1	3134.8	3149.3	3136.8	3141.0	3153.5	3153.5
42.5°	2852.0	2841.6	2841.6	2841.6	2839.6	2839.6	2845.8	2852.0	2847.9	2850.0	2866.6
45°	2550.6	2548.5	2542.3	2546.5	2544.4	2554.8	2554.8	2558.9	2567.3	2575.6	2571.4
47.5°	2259.6	2255.4	2261.7	2257.5	2259.6	2253.4	2257.5	2270.0	2280.4	2265.8	2280.4
50°	1987.3	1979.0	1976.9	1983.1	1981.0	1979.0	1983.1	1983.1	1979.0	1979.0	1993.5
52.5°	1727.4	1719.1	1712.9	1723.3	1717.0	1719.1	1710.8	1710.8	1715.0	1710.8	1704.6
55°	1484.2	1478.0	1469.7	1473.8	1463.4	1461.4	1453.0	1453.0	1446.8	1442.7	1430.2
57.5°	1251.4	1247.2	1228.5	1226.5	1228.5	1214.0	1199.4	1193.2	1176.6	1172.4	1170.3
60°	1045.6	1022.7	1012.4	999.9	991.6	985.3	968.7	958.3	933.4	918.8	916.7
62.5°	831.5	821.1	808.6	789.9	785.8	765.0	748.3	721.3	708.9	690.1	671.4
65°	659.0	631.9	613.2	602.8	586.2	567.5	548.8	519.7	505.1	482.3	463.6
67.5°	482.3	459.4	434.5	426.1	411.6	388.7	370.0	345.1	332.6	311.8	305.6
70°	330.5	309.7	291.0	278.6	268.2	245.3	226.6	218.3	205.8	201.6	201.6
72.5°	212.0	193.3	172.5	166.3	158.0	145.5	133.0	128.9	133.0	131.0	131.0
75°	118.5	108.1	93.5	87.3	87.3	83.1	81.1	81.1	81.1	81.1	81.1
77.5°	60.3	54.0	49.9	47.8	47.8	47.8	49.9	49.9	49.9	52.0	49.9
80°	29.1	27.0	27.0	27.0	29.1	29.1	29.1	29.1	29.1	31.2	29.1
82.5°	14.6	14.6	14.6	14.6	14.6	14.6	16.6	16.6	16.6	16.6	16.6
85°	6.2	6.2	6.2	6.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P683995

CATALOG NUMBER: LX6C130D010 EX6C1309030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3	6184.3
2.5°	6138.5	6134.4	6134.4	6132.3	6132.3	6132.3	6132.3	6134.4
5°	6072.0	6069.9	6069.9	6065.8	6065.8	6065.8	6065.8	6065.8
7.5°	5982.6	5978.5	5980.6	5976.4	5976.4	5978.5	5976.4	5974.3
10°	5872.5	5870.4	5872.5	5872.5	5868.3	5866.2	5868.3	5870.4
12.5°	5747.7	5745.7	5741.5	5743.6	5743.6	5741.5	5739.4	5735.3
15°	5602.2	5600.1	5598.1	5596.0	5593.9	5596.0	5593.9	5589.8
17.5°	5431.8	5431.8	5429.7	5427.6	5425.5	5421.4	5423.5	5429.7
20°	5248.8	5246.8	5242.6	5244.7	5236.4	5232.2	5234.3	5240.5
22.5°	5038.9	5032.7	5036.8	5030.6	5030.6	5032.7	5030.6	5026.4
25°	4810.2	4801.9	4806.1	4808.1	4808.1	4806.1	4804.0	4806.1
27.5°	4556.6	4562.9	4562.9	4558.7	4564.9	4556.6	4560.8	4562.9
30°	4296.8	4290.5	4288.5	4296.8	4309.2	4298.9	4298.9	4300.9
32.5°	4028.6	4020.3	4020.3	4024.5	4022.4	4022.4	4030.7	4020.3
35°	3741.7	3745.9	3729.3	3739.7	3743.8	3739.7	3741.7	3741.7
37.5°	3452.8	3448.6	3448.6	3448.6	3454.9	3454.9	3459.0	3457.0
40°	3168.0	3159.7	3157.6	3161.8	3153.5	3159.7	3159.7	3153.5
42.5°	2860.4	2862.4	2872.8	2862.4	2864.5	2862.4	2858.3	2856.2
45°	2575.6	2581.8	2577.6	2575.6	2577.6	2569.3	2571.4	2577.6
47.5°	2274.2	2286.6	2274.2	2282.5	2280.4	2276.2	2272.1	2263.8
50°	1991.4	1995.6	1993.5	1991.4	1989.4	1987.3	1976.9	1970.7
52.5°	1702.5	1702.5	1702.5	1702.5	1681.7	1692.1	1687.9	1675.5
55°	1419.8	1426.0	1417.7	1417.7	1403.2	1403.2	1399.0	1401.1
57.5°	1147.5	1141.2	1135.0	1135.0	1120.4	1114.2	1108.0	1099.7
60°	893.9	887.6	879.3	868.9	854.4	854.4	850.2	833.6
62.5°	654.8	644.4	638.2	629.9	617.4	609.1	602.8	607.0
65°	449.0	438.6	430.3	430.3	430.3	426.1	424.1	424.1
67.5°	295.2	301.4	297.3	301.4	301.4	297.3	295.2	299.3
70°	203.7	203.7	201.6	201.6	201.6	201.6	199.6	201.6
72.5°	131.0	131.0	131.0	133.0	131.0	131.0	133.0	133.0
75°	83.1	83.1	83.1	85.2	83.1	83.1	85.2	83.1
77.5°	49.9	52.0	52.0	52.0	52.0	49.9	52.0	52.0
80°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
82.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)