

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: P683882

Luminaire Tested: **LX6C100D010 EX6C1009030 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683882
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: LX6C100D010 EX6C1009030 6LCSWH
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

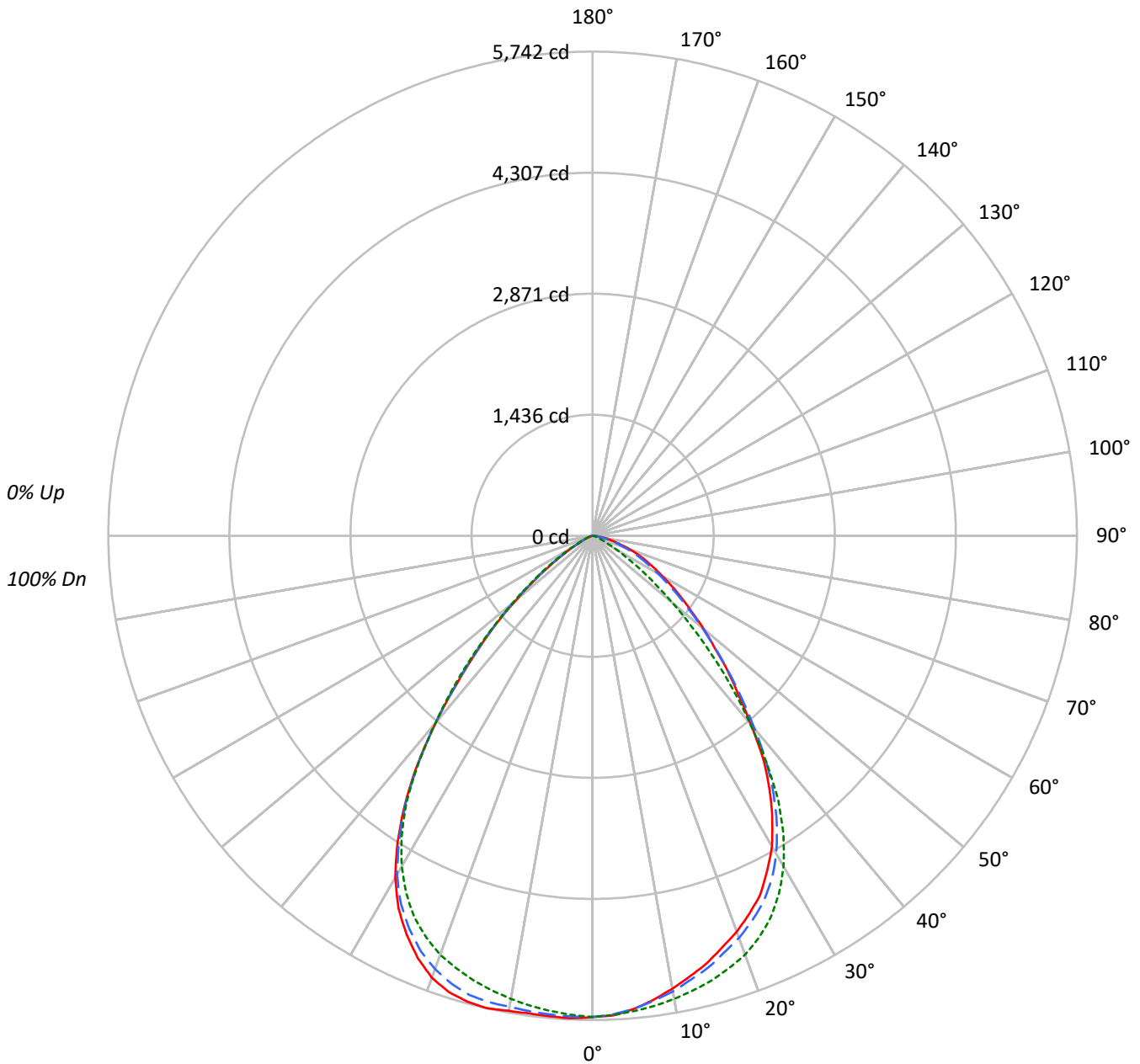
Lumens per Lamp: N/A
Luminaire Lumens: 9575.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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°	312881	312881	312881
5°	309894	311407	314830
10°	303507	310404	318470
15°	297703	309826	324695
20°	291529	308418	325307
25°	284345	302267	315611
30°	269219	286658	296261
35°	244483	256938	259247
40°	208662	207660	206673
45°	175274	155497	150698
50°	146383	105225	99946
55°	123198	64562	58636
60°	104301	34021	29471
65°	90308	17888	14295
70°	75109	11044	7726
75°	55515	7307	4384
80°	43535	4325	2210
85°	34720	4403	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.9	5.6
10°-20°	1540.1	16.1
20°-30°	2274.2	23.8
30°-40°	2343.8	24.5
40°-50°	1618.8	16.9
50°-60°	797.9	8.3
60°-70°	323.3	3.4
70°-80°	115.2	1.2
80°-90°	23.8	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°	4352.2	45.5
0°-40°	6695.9	69.9
0°-60°	9112.6	95.2
0°-90°	9575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9575.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5707	5707	5707	5707	5707	
5°	5631	5631	5659	5700	5721	532
15°	5246	5301	5459	5638	5721	1477
25°	4701	4791	4997	5142	5218	2149
35°	3653	3743	3839	3860	3874	2264
45°	2261	2274	2006	1978	1944	1748
55°	1289	1241	676	634	614	1165
65°	696	627	138	110	110	691
75°	262	221	34	21	21	294
85°	55	42	7	0	0	67
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°	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4
2.5°	5693.4	5672.9	5686.7	5658.9	5693.4	5658.9	5665.9	5672.9	5665.9	5672.9	5679.7
5°	5631.4	5610.7	5631.4	5597.0	5631.4	5610.7	5610.7	5617.7	5617.7	5624.4	5631.4
7.5°	5548.8	5528.0	5548.8	5514.3	5555.5	5535.0	5535.0	5548.8	5541.8	5548.8	5562.5
10°	5452.3	5424.6	5445.3	5424.6	5466.1	5438.3	5452.3	5452.3	5452.3	5472.8	5486.8
12.5°	5348.9	5321.2	5348.9	5314.4	5355.7	5335.2	5341.9	5362.7	5369.4	5383.4	5390.1
15°	5245.5	5211.0	5224.8	5204.0	5245.5	5224.8	5231.8	5259.2	5259.2	5280.0	5300.7
17.5°	5114.6	5086.9	5114.6	5086.9	5121.3	5107.6	5121.3	5142.1	5142.1	5162.8	5183.3
20°	4997.2	4969.7	4990.4	4969.7	5011.2	4990.4	4997.2	5024.9	5031.7	5052.4	5073.1
22.5°	4852.5	4831.8	4845.5	4825.1	4866.3	4852.5	4859.5	4887.0	4894.0	4907.8	4942.2
25°	4700.9	4659.4	4680.2	4666.4	4707.9	4687.2	4700.9	4728.4	4742.4	4762.9	4790.6
27.5°	4480.3	4459.6	4473.3	4473.3	4507.8	4487.3	4494.1	4521.8	4542.3	4563.0	4597.5
30°	4253.0	4218.5	4232.3	4239.0	4266.7	4253.0	4266.7	4294.2	4301.2	4328.7	4356.2
32.5°	3963.5	3949.5	3977.2	3963.5	3977.2	3977.2	3984.0	4004.7	4018.4	4032.4	4066.9
35°	3653.2	3625.7	3653.2	3639.5	3673.9	3653.2	3673.9	3694.7	3694.7	3722.2	3742.9
37.5°	3315.5	3281.0	3294.7	3294.7	3308.5	3301.7	3301.7	3336.2	3342.9	3363.7	3384.4
40°	2915.8	2901.8	2929.5	2922.5	2929.5	2929.5	2936.3	2957.0	2970.7	2977.7	2984.7
42.5°	2557.3	2564.0	2571.0	2571.0	2571.0	2571.0	2571.0	2598.5	2591.8	2612.5	2619.2
45°	2260.8	2233.3	2247.0	2240.3	2260.8	2240.3	2260.8	2281.5	2267.8	2288.5	2274.5
47.5°	1957.5	1957.5	1957.5	1950.8	1964.5	1957.5	1971.2	1978.2	1978.2	1978.2	1971.2
50°	1716.4	1695.7	1702.4	1702.4	1709.4	1702.4	1716.4	1723.2	1723.2	1709.4	1682.0
52.5°	1481.9	1475.1	1475.1	1488.9	1488.9	1481.9	1481.9	1481.9	1481.9	1461.4	1447.4
55°	1289.0	1275.3	1282.0	1282.0	1282.0	1282.0	1289.0	1282.0	1282.0	1261.3	1240.8
57.5°	1116.6	1102.9	1102.9	1102.9	1109.6	1102.9	1102.9	1102.9	1095.9	1075.2	1047.7
60°	951.3	944.3	951.3	951.3	958.0	951.3	951.3	951.3	937.5	916.8	889.1
62.5°	813.4	813.4	813.4	820.1	820.1	813.4	813.4	806.4	799.6	771.9	744.4
65°	696.2	689.2	696.2	696.2	703.0	703.0	696.2	689.2	682.5	654.7	627.3
67.5°	579.1	572.1	579.1	579.1	585.8	579.1	579.1	579.1	558.3	544.6	516.9
70°	468.6	461.9	461.9	461.9	468.6	454.9	461.9	461.9	448.2	427.4	399.7
72.5°	358.5	358.5	358.5	358.5	358.5	358.5	351.5	351.5	337.7	317.0	303.3
75°	262.1	262.1	268.8	268.8	262.1	262.1	262.1	255.1	248.1	234.3	220.6
77.5°	193.1	193.1	193.1	193.1	186.1	186.1	186.1	179.1	172.4	165.4	151.6
80°	137.9	137.9	137.9	130.9	137.9	130.9	130.9	130.9	117.2	110.2	103.4
82.5°	96.4	89.7	89.7	89.7	89.7	89.7	89.7	82.7	82.7	75.9	68.9
85°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	48.2	41.5	41.5
87.5°	27.5	34.5	34.5	34.5	34.5	34.5	34.5	27.5	27.5	27.5	20.7
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°	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4
2.5°	5679.7	5679.7	5693.4	5672.9	5707.4	5686.7	5679.7	5714.1	5693.4	5686.7	5700.4
5°	5631.4	5638.4	5645.2	5631.4	5665.9	5645.2	5645.2	5679.7	5665.9	5658.9	5679.7
7.5°	5569.5	5576.2	5590.0	5583.2	5610.7	5597.0	5604.0	5638.4	5624.4	5624.4	5645.2
10°	5493.6	5507.3	5521.3	5521.3	5555.5	5541.8	5541.8	5583.2	5569.5	5576.2	5604.0
12.5°	5403.9	5424.6	5445.3	5452.3	5486.8	5466.1	5472.8	5521.3	5514.3	5521.3	5548.8
15°	5307.4	5335.2	5355.7	5355.7	5397.1	5376.4	5397.1	5445.3	5431.6	5459.1	5493.6
17.5°	5197.3	5224.8	5252.2	5259.2	5300.7	5286.7	5314.4	5362.7	5362.7	5376.4	5417.9
20°	5093.9	5128.3	5142.1	5162.8	5204.0	5197.3	5211.0	5266.2	5266.2	5286.7	5328.2
22.5°	4956.0	4990.4	5017.9	5038.6	5073.1	5073.1	5093.9	5142.1	5142.1	5155.8	5197.3
25°	4804.3	4845.5	4866.3	4887.0	4921.5	4914.5	4935.2	4976.7	4983.4	4997.2	5038.6
27.5°	4611.2	4645.7	4673.4	4687.2	4735.4	4707.9	4728.4	4776.9	4769.9	4783.6	4818.1
30°	4370.2	4404.6	4432.1	4432.1	4473.3	4473.3	4494.1	4514.8	4514.8	4528.5	4556.3
32.5°	4087.4	4128.8	4128.8	4149.6	4177.1	4149.6	4177.1	4204.5	4190.8	4211.5	4232.3
35°	3763.4	3784.1	3791.1	3791.1	3811.8	3804.8	3797.8	3818.6	3804.8	3839.3	3860.1
37.5°	3370.7	3398.2	3384.4	3398.2	3391.2	3370.7	3370.7	3405.2	3377.4	3384.4	3405.2
40°	2991.5	2991.5	2984.7	2950.3	2957.0	2936.3	2929.5	2936.3	2908.8	2901.8	2929.5
42.5°	2598.5	2591.8	2571.0	2522.8	2529.6	2495.1	2467.6	2467.6	2453.9	2446.9	2453.9
45°	2247.0	2226.3	2191.8	2136.9	2122.9	2095.4	2040.2	2026.5	2005.7	2005.7	2012.7
47.5°	1923.0	1895.6	1840.3	1778.4	1743.9	1709.4	1654.2	1633.5	1599.0	1585.3	1599.0
50°	1654.2	1606.0	1537.1	1447.4	1412.9	1371.7	1316.5	1282.0	1247.5	1233.8	1226.8
52.5°	1406.2	1337.2	1268.3	1158.1	1130.4	1089.2	1013.2	978.8	944.3	916.8	916.8
55°	1192.3	1130.4	1034.0	930.5	889.1	847.9	771.9	723.7	689.2	675.5	661.7
57.5°	999.5	930.5	840.9	730.7	689.2	648.0	572.1	523.8	489.4	468.6	454.9
60°	840.9	765.2	675.5	579.1	530.8	489.4	413.7	365.2	330.7	310.3	296.3
62.5°	689.2	627.3	537.6	448.2	406.7	365.2	303.3	255.1	220.6	206.8	186.1
65°	579.1	516.9	434.2	358.5	324.0	282.5	227.6	186.1	158.6	137.9	124.2
67.5°	468.6	420.4	351.5	282.5	248.1	220.6	172.4	137.9	110.2	96.4	89.7
70°	372.2	324.0	268.8	213.6	193.1	165.4	130.9	96.4	82.7	68.9	61.9
72.5°	275.8	241.3	199.8	158.6	137.9	124.2	89.7	75.9	55.2	48.2	41.5
75°	199.8	172.4	144.6	110.2	96.4	89.7	68.9	48.2	41.5	34.5	27.5
77.5°	137.9	124.2	96.4	75.9	68.9	61.9	48.2	34.5	27.5	20.7	20.7
80°	89.7	75.9	61.9	48.2	48.2	41.5	27.5	20.7	20.7	13.7	13.7
82.5°	55.2	48.2	41.5	34.5	27.5	27.5	20.7	13.7	13.7	7.0	7.0
85°	34.5	27.5	20.7	20.7	13.7	13.7	13.7	7.0	7.0	7.0	7.0
87.5°	13.7	13.7	13.7	7.0	7.0	7.0	7.0	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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CATALOG NUMBER: LX6C100D010 EX6C1009030 6LCSWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4
2.5°	5700.4	5700.4	5714.1	5693.4	5707.4	5707.4	5721.1	5693.4	5707.4	5714.1	5727.9
5°	5672.9	5679.7	5693.4	5686.7	5693.4	5693.4	5707.4	5672.9	5700.4	5700.4	5721.1
7.5°	5645.2	5645.2	5658.9	5652.2	5665.9	5672.9	5686.7	5658.9	5686.7	5686.7	5707.4
10°	5610.7	5610.7	5631.4	5624.4	5645.2	5652.2	5672.9	5645.2	5672.9	5679.7	5700.4
12.5°	5562.5	5569.5	5590.0	5590.0	5610.7	5624.4	5645.2	5631.4	5665.9	5672.9	5700.4
15°	5507.3	5521.3	5548.8	5541.8	5562.5	5583.2	5610.7	5590.0	5638.4	5652.2	5679.7
17.5°	5438.3	5452.3	5472.8	5472.8	5493.6	5507.3	5541.8	5528.0	5569.5	5576.2	5610.7
20°	5335.2	5355.7	5383.4	5376.4	5397.1	5410.9	5438.3	5424.6	5466.1	5479.8	5514.3
22.5°	5211.0	5224.8	5245.5	5245.5	5266.2	5280.0	5307.4	5286.7	5328.2	5335.2	5362.7
25°	5045.6	5059.4	5073.1	5080.1	5100.6	5107.6	5121.3	5107.6	5142.1	5149.1	5183.3
27.5°	4831.8	4838.8	4859.5	4859.5	4873.3	4880.0	4900.8	4873.3	4921.5	4921.5	4942.2
30°	4576.7	4570.0	4597.5	4583.7	4597.5	4597.5	4618.2	4604.5	4639.0	4625.2	4645.7
32.5°	4239.0	4253.0	4253.0	4239.0	4266.7	4259.7	4259.7	4246.0	4266.7	4273.5	4287.2
35°	3846.3	3866.8	3866.8	3873.8	3880.8	3860.1	3866.8	3825.6	3860.1	3866.8	3873.8
37.5°	3418.9	3398.2	3411.9	3391.2	3425.6	3384.4	3384.4	3356.9	3384.4	3384.4	3391.2
40°	2929.5	2922.5	2936.3	2922.5	2915.8	2908.8	2895.0	2874.3	2901.8	2888.0	2908.8
42.5°	2467.6	2460.6	2460.6	2446.9	2440.1	2440.1	2426.4	2412.4	2405.7	2405.7	2440.1
45°	1992.0	2005.7	1992.0	1985.2	1999.0	1985.2	1992.0	1964.5	1978.2	1964.5	1978.2
47.5°	1592.3	1599.0	1585.3	1571.5	1592.3	1571.5	1571.5	1550.8	1578.5	1578.5	1564.6
50°	1233.8	1226.8	1213.1	1226.8	1220.1	1220.1	1220.1	1199.3	1213.1	1192.3	1206.3
52.5°	909.8	903.1	903.1	896.1	903.1	896.1	896.1	889.1	889.1	882.3	889.1
55°	661.7	654.7	641.0	641.0	641.0	648.0	641.0	634.3	634.3	627.3	634.3
57.5°	448.2	434.2	434.2	434.2	434.2	427.4	427.4	420.4	427.4	420.4	427.4
60°	289.5	289.5	275.8	275.8	275.8	275.8	275.8	268.8	275.8	275.8	275.8
62.5°	179.1	179.1	172.4	165.4	172.4	165.4	165.4	165.4	172.4	165.4	172.4
65°	117.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2
67.5°	82.7	75.9	75.9	75.9	75.9	75.9	75.9	68.9	75.9	75.9	75.9
70°	55.2	55.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
72.5°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
75°	27.5	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
77.5°	20.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
80°	13.7	13.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	7.0	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	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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: P683882

CATALOG NUMBER: LX6C100D010 EX6C1009030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4	5707.4
2.5°	5707.4	5714.1	5700.4	5707.4	5693.4	5707.4	5714.1	5727.9
5°	5693.4	5700.4	5686.7	5700.4	5686.7	5700.4	5707.4	5721.1
7.5°	5679.7	5693.4	5679.7	5693.4	5679.7	5693.4	5700.4	5714.1
10°	5679.7	5700.4	5686.7	5707.4	5686.7	5700.4	5714.1	5721.1
12.5°	5679.7	5700.4	5693.4	5707.4	5700.4	5714.1	5727.9	5741.6
15°	5665.9	5686.7	5672.9	5693.4	5686.7	5693.4	5721.1	5721.1
17.5°	5590.0	5610.7	5610.7	5624.4	5624.4	5645.2	5658.9	5672.9
20°	5493.6	5514.3	5507.3	5528.0	5528.0	5548.8	5562.5	5576.2
22.5°	5348.9	5376.4	5369.4	5390.1	5383.4	5397.1	5424.6	5417.9
25°	5162.8	5197.3	5190.3	5204.0	5197.3	5197.3	5211.0	5217.8
27.5°	4935.2	4956.0	4949.0	4963.0	4949.0	4963.0	4976.7	4983.4
30°	4639.0	4652.7	4645.7	4652.7	4645.7	4659.4	4666.4	4680.2
32.5°	4280.5	4301.2	4280.5	4294.2	4287.2	4287.2	4315.0	4301.2
35°	3853.1	3860.1	3866.8	3866.8	3853.1	3860.1	3873.8	3873.8
37.5°	3377.4	3411.9	3370.7	3391.2	3384.4	3384.4	3384.4	3405.2
40°	2881.3	2888.0	2874.3	2874.3	2874.3	2867.3	2895.0	2888.0
42.5°	2412.4	2419.4	2412.4	2391.9	2398.7	2398.7	2419.4	2391.9
45°	1957.5	1971.2	1964.5	1964.5	1950.8	1950.8	1957.5	1943.8
47.5°	1550.8	1564.6	1544.1	1550.8	1537.1	1550.8	1544.1	1557.8
50°	1178.6	1192.3	1185.6	1192.3	1192.3	1178.6	1199.3	1171.9
52.5°	882.3	889.1	882.3	875.3	868.6	868.6	882.3	875.3
55°	627.3	620.3	620.3	620.3	627.3	627.3	620.3	613.5
57.5°	420.4	420.4	413.7	413.7	420.4	406.7	413.7	406.7
60°	268.8	268.8	268.8	268.8	262.1	268.8	268.8	268.8
62.5°	165.4	165.4	165.4	165.4	165.4	165.4	165.4	165.4
65°	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2
67.5°	68.9	75.9	75.9	75.9	68.9	68.9	68.9	68.9
70°	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
72.5°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
75°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
77.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	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)