

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: P683959

Luminaire Tested: **LX6C120D010 EX6C1209035 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683959
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 EX6C1209035 6LBLWWH
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

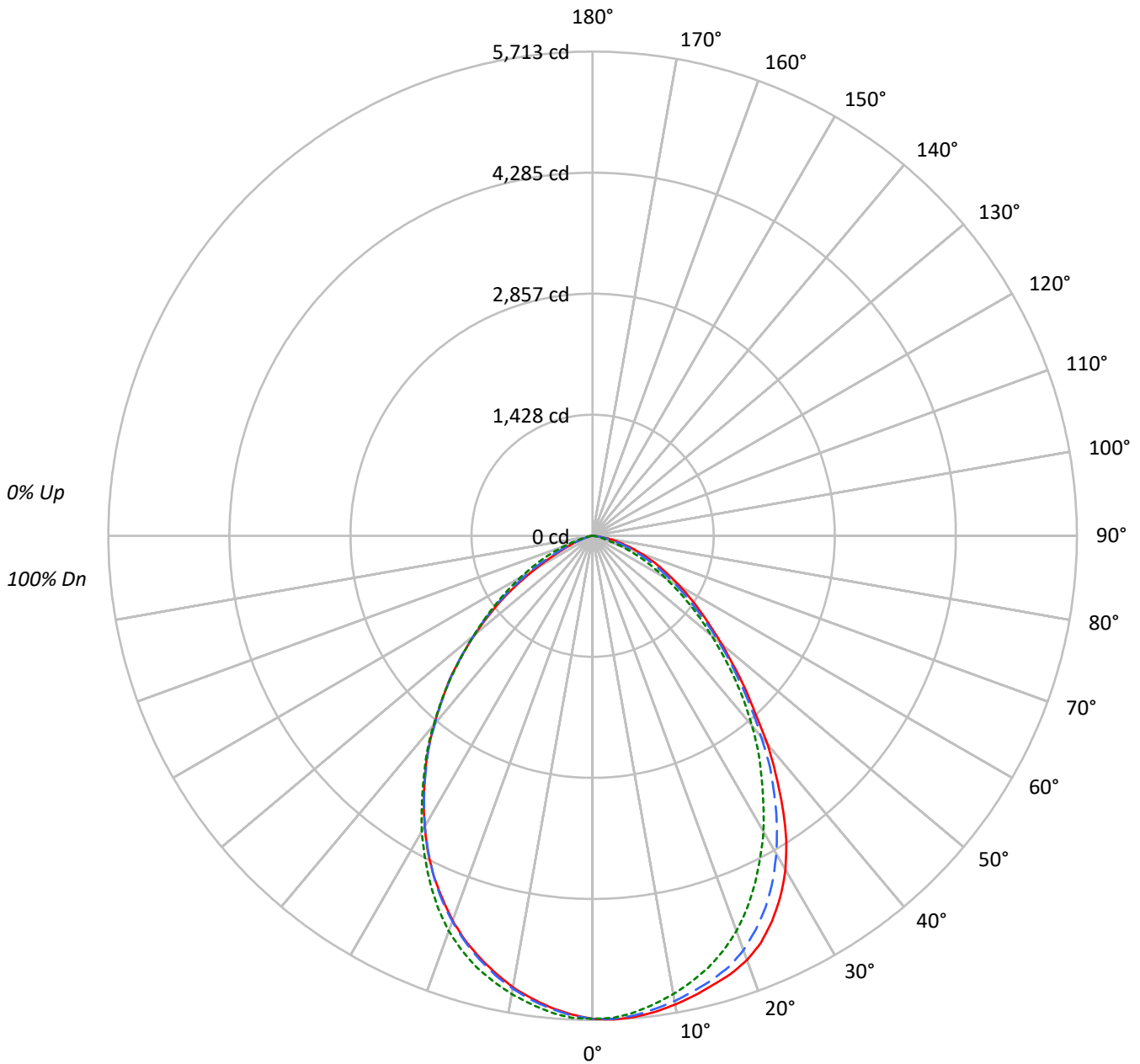
Lumens per Lamp: N/A
Luminaire Lumens: 10368.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
Input Voltage (V):
Input Current (A_{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	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°	312469	312469	312469
5°	313559	310713	307654
10°	312597	305667	301186
15°	311426	299355	292397
20°	310728	289493	281780
25°	303169	273965	267941
30°	288044	255172	250931
35°	261442	232337	230798
40°	229387	209092	207997
45°	196664	182701	184190
50°	169282	155722	154903
55°	147961	131474	123417
60°	130033	107765	84237
65°	113825	83511	50706
70°	97036	56195	29781
75°	78327	29208	16225
80°	54426	11491	9060
85°	21700	3585	4843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.1	5.2
10°-20°	1491.4	14.4
20°-30°	2122.3	20.5
30°-40°	2233.8	21.5
40°-50°	1861.6	18.0
50°-60°	1257.7	12.1
60°-70°	637.7	6.2
70°-80°	205.8	2.0
80°-90°	23.6	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°	4147.8	40.0
0°-40°	6381.6	61.6
0°-60°	9500.9	91.6
0°-90°	10368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10368.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5700	5700	5700	5700	5700	
5°	5698	5681	5646	5604	5591	541
15°	5487	5428	5275	5169	5152	1550
25°	5012	4830	4529	4435	4430	2297
35°	3907	3738	3472	3437	3449	2431
45°	2537	2472	2357	2366	2376	1963
55°	1548	1473	1376	1334	1291	1393
65°	878	791	644	466	391	873
75°	370	289	138	75	77	399
85°	34	19	6	8	8	59
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°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5713.3	5713.3	5713.3	5713.3	5713.3	5713.3	5711.4	5711.4	5707.6	5707.6	5705.7
5°	5698.0	5699.9	5699.9	5698.0	5698.0	5694.2	5694.2	5692.3	5686.5	5682.7	5680.8
7.5°	5665.4	5665.4	5663.5	5661.6	5659.7	5654.0	5652.0	5646.3	5642.5	5638.6	5631.0
10°	5615.6	5615.6	5613.7	5609.9	5608.0	5604.1	5604.1	5596.5	5588.8	5579.2	5573.5
12.5°	5556.2	5558.2	5554.3	5552.4	5546.7	5544.7	5540.9	5531.3	5525.6	5514.1	5504.5
15°	5487.3	5491.1	5491.1	5483.4	5477.7	5475.8	5470.0	5464.3	5450.9	5439.4	5427.9
17.5°	5420.2	5424.0	5420.2	5414.5	5408.7	5401.0	5397.2	5385.7	5368.5	5353.2	5335.9
20°	5326.3	5332.1	5324.4	5314.8	5303.3	5301.4	5295.7	5276.5	5251.6	5228.6	5203.7
22.5°	5194.1	5190.3	5184.5	5180.7	5161.6	5150.1	5142.4	5117.5	5090.7	5060.0	5029.4
25°	5012.1	5019.8	5008.3	4991.0	4981.5	4970.0	4950.8	4924.0	4899.1	4866.5	4830.1
27.5°	4797.5	4797.5	4782.2	4776.5	4755.4	4740.0	4730.5	4703.6	4671.1	4638.5	4598.3
30°	4550.4	4538.9	4538.9	4512.1	4494.8	4489.1	4479.5	4435.4	4406.7	4372.2	4332.0
32.5°	4251.5	4249.6	4241.9	4224.7	4201.7	4182.5	4182.5	4151.9	4113.5	4071.4	4046.5
35°	3906.6	3908.5	3904.7	3885.5	3885.5	3862.5	3858.7	3831.9	3801.2	3768.7	3738.0
37.5°	3550.2	3557.9	3550.2	3540.7	3534.9	3533.0	3515.8	3496.6	3473.6	3454.4	3431.5
40°	3205.4	3193.9	3197.7	3178.6	3180.5	3176.6	3169.0	3144.1	3130.7	3111.5	3086.6
42.5°	2833.7	2845.2	2849.0	2837.5	2833.7	2826.0	2833.7	2824.1	2808.8	2799.2	2776.2
45°	2536.7	2525.2	2531.0	2527.1	2529.0	2513.7	2508.0	2504.1	2498.4	2481.1	2471.6
47.5°	2241.7	2243.6	2241.7	2234.0	2230.2	2230.2	2222.5	2211.0	2211.0	2199.5	2191.8
50°	1984.9	1984.9	1988.8	1979.2	1975.3	1967.7	1969.6	1958.1	1950.4	1940.9	1935.1
52.5°	1749.3	1751.2	1743.5	1745.4	1741.6	1741.6	1733.9	1726.3	1718.6	1701.4	1697.5
55°	1548.1	1550.0	1540.4	1544.3	1532.8	1527.0	1523.2	1511.7	1511.7	1494.4	1473.4
57.5°	1360.3	1358.4	1356.5	1350.7	1343.1	1337.3	1331.6	1318.2	1312.4	1300.9	1283.7
60°	1186.0	1184.1	1180.2	1178.3	1172.6	1159.1	1159.1	1149.6	1130.4	1118.9	1101.7
62.5°	1021.2	1021.2	1019.3	1013.5	1007.8	1002.0	998.2	990.5	971.4	958.0	942.6
65°	877.5	875.6	869.8	860.3	856.4	856.4	843.0	837.3	821.9	808.5	791.3
67.5°	739.6	731.9	728.1	730.0	718.5	718.5	707.0	697.4	684.0	661.0	647.6
70°	605.4	601.6	597.8	593.9	592.0	584.4	578.6	567.1	553.7	536.5	515.4
72.5°	484.7	484.7	479.0	475.2	469.4	461.7	457.9	448.3	433.0	413.8	398.5
75°	369.8	369.8	369.8	362.1	358.3	354.4	343.0	337.2	320.0	308.5	289.3
77.5°	272.1	268.2	262.5	260.6	256.7	252.9	247.2	237.6	222.2	208.8	197.3
80°	172.4	178.2	172.4	172.4	162.9	159.0	157.1	145.6	139.9	128.4	118.8
82.5°	95.8	97.7	93.9	92.0	86.2	84.3	84.3	76.6	72.8	65.1	59.4
85°	34.5	36.4	34.5	34.5	30.7	32.6	30.7	28.7	24.9	21.1	19.2
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5705.7	5701.9	5701.9	5699.9	5698.0	5698.0	5698.0	5696.1	5692.3	5692.3	5690.4
5°	5676.9	5673.1	5667.4	5663.5	5661.6	5659.7	5657.8	5655.9	5648.2	5646.3	5640.5
7.5°	5625.2	5621.4	5611.8	5608.0	5602.2	5600.3	5592.6	5588.8	5581.1	5573.5	5569.7
10°	5563.9	5554.3	5546.7	5537.1	5533.2	5527.5	5517.9	5506.4	5500.7	5491.1	5483.4
12.5°	5494.9	5483.4	5468.1	5456.6	5452.8	5443.2	5427.9	5418.3	5404.9	5389.6	5376.1
15°	5408.7	5395.3	5381.9	5360.8	5355.1	5343.6	5328.2	5309.1	5289.9	5274.6	5259.3
17.5°	5314.8	5293.8	5272.7	5249.7	5232.4	5226.7	5201.8	5175.0	5157.7	5130.9	5113.7
20°	5182.6	5153.9	5119.4	5096.4	5081.1	5063.8	5035.1	5006.4	4985.3	4962.3	4937.4
22.5°	5000.6	4973.8	4933.6	4899.1	4887.6	4862.7	4837.8	4810.9	4784.1	4759.2	4728.6
25°	4786.0	4757.3	4717.1	4682.6	4663.4	4651.9	4604.0	4577.2	4550.4	4529.3	4508.2
27.5°	4565.7	4514.0	4487.1	4433.5	4416.3	4412.4	4368.4	4339.6	4310.9	4282.1	4255.3
30°	4293.6	4253.4	4213.2	4174.8	4151.9	4138.4	4105.9	4069.5	4050.3	4031.1	4004.3
32.5°	4012.0	3975.6	3925.8	3889.4	3872.1	3853.0	3824.2	3799.3	3770.6	3749.5	3743.8
35°	3711.2	3671.0	3628.8	3602.0	3598.1	3575.2	3546.4	3525.3	3504.3	3471.7	3465.9
37.5°	3389.3	3366.3	3337.6	3299.3	3282.0	3282.0	3253.3	3237.9	3211.1	3209.2	3193.9
40°	3073.2	3063.6	3019.5	3008.0	3004.2	2977.4	2969.7	2942.9	2923.7	2921.8	2898.8
42.5°	2760.9	2736.0	2728.3	2709.1	2691.9	2688.1	2670.8	2659.3	2651.7	2640.2	2628.7
45°	2450.5	2444.7	2425.6	2412.2	2406.4	2398.8	2393.0	2370.0	2366.2	2356.6	2350.9
47.5°	2182.3	2166.9	2149.7	2134.4	2132.4	2121.0	2107.5	2107.5	2086.5	2084.5	2080.7
50°	1915.9	1904.4	1894.9	1873.8	1877.6	1862.3	1860.4	1843.1	1833.6	1825.9	1835.5
52.5°	1682.2	1659.2	1655.4	1638.1	1632.4	1634.3	1613.2	1607.5	1603.6	1596.0	1592.2
55°	1460.0	1448.5	1433.1	1421.6	1412.1	1402.5	1394.8	1394.8	1373.7	1375.6	1366.1
57.5°	1264.5	1254.9	1235.8	1218.5	1214.7	1203.2	1193.6	1184.1	1182.1	1168.7	1159.1
60°	1090.2	1072.9	1048.0	1040.4	1028.9	1019.3	1009.7	998.2	992.5	982.9	965.6
62.5°	927.3	898.6	889.0	873.7	860.3	854.5	839.2	825.8	816.2	802.8	789.4
65°	772.1	751.1	733.8	716.6	714.6	699.3	685.9	674.4	655.3	643.8	618.9
67.5°	630.3	611.2	592.0	574.8	561.4	557.5	536.5	523.1	509.6	486.7	465.6
70°	500.1	480.9	465.6	444.5	438.8	423.4	408.1	394.7	371.7	350.6	333.4
72.5°	381.3	360.2	343.0	327.6	318.0	304.6	289.3	274.0	251.0	229.9	214.6
75°	272.1	256.7	239.5	224.2	216.5	208.8	191.6	174.4	159.0	137.9	124.5
77.5°	183.9	168.6	153.3	139.9	130.3	124.5	113.0	99.6	86.2	74.7	65.1
80°	107.3	97.7	86.2	74.7	72.8	67.1	57.5	49.8	42.2	36.4	28.7
82.5°	51.7	46.0	38.3	32.6	28.7	26.8	23.0	19.2	15.3	13.4	13.4
85°	15.3	13.4	11.5	9.6	7.7	7.7	5.7	5.7	5.7	5.7	5.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5684.6	5682.7	5680.8	5678.9	5675.0	5675.0	5669.3	5665.4	5665.4	5661.6	5659.7
5°	5634.8	5629.0	5627.1	5623.3	5619.5	5617.6	5609.9	5608.0	5604.1	5600.3	5600.3
7.5°	5563.9	5556.2	5548.6	5544.7	5542.8	5537.1	5533.2	5531.3	5525.6	5521.8	5514.1
10°	5470.0	5464.3	5454.7	5450.9	5447.0	5443.2	5433.6	5427.9	5426.0	5422.1	5418.3
12.5°	5360.8	5353.2	5343.6	5335.9	5332.1	5326.3	5316.7	5311.0	5311.0	5303.3	5303.3
15°	5243.9	5232.4	5215.2	5207.5	5205.6	5194.1	5186.5	5178.8	5169.2	5165.4	5165.4
17.5°	5094.5	5075.3	5060.0	5060.0	5052.3	5040.9	5029.4	5023.6	5017.9	5010.2	5006.4
20°	4918.2	4904.8	4887.6	4887.6	4870.3	4866.5	4855.0	4853.1	4839.7	4841.6	4835.8
22.5°	4705.6	4697.9	4688.3	4680.7	4671.1	4659.6	4653.8	4655.7	4650.0	4648.1	4646.2
25°	4491.0	4469.9	4458.4	4454.6	4450.7	4441.2	4437.3	4435.4	4435.4	4429.7	4431.6
27.5°	4243.8	4228.5	4213.2	4218.9	4211.2	4205.5	4201.7	4195.9	4199.8	4197.8	4199.8
30°	3990.9	3971.8	3962.2	3966.0	3964.1	3948.8	3956.4	3954.5	3956.4	3956.4	3960.3
32.5°	3724.6	3711.2	3709.3	3711.2	3693.9	3695.9	3688.2	3699.7	3701.6	3713.1	3703.5
35°	3454.4	3446.8	3433.4	3431.5	3433.4	3431.5	3431.5	3439.1	3437.2	3448.7	3444.9
37.5°	3176.6	3172.8	3159.4	3163.2	3155.6	3169.0	3172.8	3169.0	3182.4	3178.6	3176.6
40°	2904.6	2898.8	2891.2	2906.5	2896.9	2889.2	2902.7	2891.2	2895.0	2906.5	2906.5
42.5°	2628.7	2619.1	2619.1	2619.1	2617.2	2617.2	2622.9	2628.7	2624.8	2626.8	2642.1
45°	2350.9	2348.9	2343.2	2347.0	2345.1	2354.7	2354.7	2358.5	2366.2	2373.9	2370.0
47.5°	2082.6	2078.8	2084.5	2080.7	2082.6	2076.9	2080.7	2092.2	2101.8	2088.4	2101.8
50°	1831.6	1824.0	1822.1	1827.8	1825.9	1824.0	1827.8	1827.8	1824.0	1824.0	1837.4
52.5°	1592.2	1584.5	1578.7	1588.3	1582.6	1584.5	1576.8	1576.8	1580.7	1576.8	1571.1
55°	1368.0	1362.2	1354.6	1358.4	1348.8	1346.9	1339.2	1339.2	1333.5	1329.7	1318.2
57.5°	1153.4	1149.6	1132.3	1130.4	1132.3	1118.9	1105.5	1099.8	1084.4	1080.6	1078.7
60°	963.7	942.6	933.1	921.6	913.9	908.2	892.8	883.3	860.3	846.8	844.9
62.5°	766.4	756.8	745.3	728.1	724.2	705.1	689.7	664.8	653.3	636.1	618.9
65°	607.4	582.4	565.2	555.6	540.3	523.1	505.8	479.0	465.6	444.5	427.3
67.5°	444.5	423.4	400.4	392.8	379.4	358.3	341.0	318.0	306.6	287.4	281.6
70°	304.6	285.5	268.2	256.7	247.2	226.1	208.8	201.2	189.7	185.8	185.8
72.5°	195.4	178.2	159.0	153.3	145.6	134.1	122.6	118.8	122.6	120.7	120.7
75°	109.2	99.6	86.2	80.5	80.5	76.6	74.7	74.7	74.7	74.7	74.7
77.5°	55.6	49.8	46.0	44.1	44.1	44.1	46.0	46.0	46.0	47.9	46.0
80°	26.8	24.9	24.9	24.9	26.8	26.8	26.8	26.8	26.8	28.7	26.8
82.5°	13.4	13.4	13.4	13.4	13.4	13.4	15.3	15.3	15.3	15.3	15.3
85°	5.7	5.7	5.7	5.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P683959

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5657.8	5654.0	5654.0	5652.0	5652.0	5652.0	5652.0	5654.0
5°	5596.5	5594.6	5594.6	5590.7	5590.7	5590.7	5590.7	5590.7
7.5°	5514.1	5510.3	5512.2	5508.3	5508.3	5510.3	5508.3	5506.4
10°	5412.5	5410.6	5412.5	5412.5	5408.7	5406.8	5408.7	5410.6
12.5°	5297.6	5295.7	5291.8	5293.8	5293.8	5291.8	5289.9	5286.1
15°	5163.5	5161.6	5159.6	5157.7	5155.8	5157.7	5155.8	5152.0
17.5°	5006.4	5006.4	5004.4	5002.5	5000.6	4996.8	4998.7	5004.4
20°	4837.8	4835.8	4832.0	4833.9	4826.3	4822.4	4824.3	4830.1
22.5°	4644.3	4638.5	4642.3	4636.6	4636.6	4638.5	4636.6	4632.8
25°	4433.5	4425.8	4429.7	4431.6	4431.6	4429.7	4427.7	4429.7
27.5°	4199.8	4205.5	4205.5	4201.7	4207.4	4199.8	4203.6	4205.5
30°	3960.3	3954.5	3952.6	3960.3	3971.8	3962.2	3962.2	3964.1
32.5°	3713.1	3705.4	3705.4	3709.3	3707.4	3707.4	3715.0	3705.4
35°	3448.7	3452.5	3437.2	3446.8	3450.6	3446.8	3448.7	3448.7
37.5°	3182.4	3178.6	3178.6	3178.6	3184.3	3184.3	3188.1	3186.2
40°	2919.9	2912.2	2910.3	2914.2	2906.5	2912.2	2912.2	2906.5
42.5°	2636.3	2638.3	2647.8	2638.3	2640.2	2638.3	2634.4	2632.5
45°	2373.9	2379.6	2375.8	2373.9	2375.8	2368.1	2370.0	2375.8
47.5°	2096.0	2107.5	2096.0	2103.7	2101.8	2098.0	2094.1	2086.5
50°	1835.5	1839.3	1837.4	1835.5	1833.6	1831.6	1822.1	1816.3
52.5°	1569.2	1569.2	1569.2	1569.2	1550.0	1559.6	1555.7	1544.3
55°	1308.6	1314.3	1306.7	1306.7	1293.3	1293.3	1289.4	1291.3
57.5°	1057.6	1051.9	1046.1	1046.1	1032.7	1026.9	1021.2	1013.5
60°	823.9	818.1	810.4	800.9	787.5	787.5	783.6	768.3
62.5°	603.5	593.9	588.2	580.5	569.0	561.4	555.6	559.5
65°	413.8	404.3	396.6	396.6	396.6	392.8	390.9	390.9
67.5°	272.1	277.8	274.0	277.8	277.8	274.0	272.1	275.9
70°	187.8	187.8	185.8	185.8	185.8	185.8	183.9	185.8
72.5°	120.7	120.7	120.7	122.6	120.7	120.7	122.6	122.6
75°	76.6	76.6	76.6	78.6	76.6	76.6	78.6	76.6
77.5°	46.0	47.9	47.9	47.9	47.9	46.0	47.9	47.9
80°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
82.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
85°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)