

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: P683967

Luminaire Tested: **LX6C120D010 EX6C1209040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683967
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 EX6C1209040 6LBLWWH
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

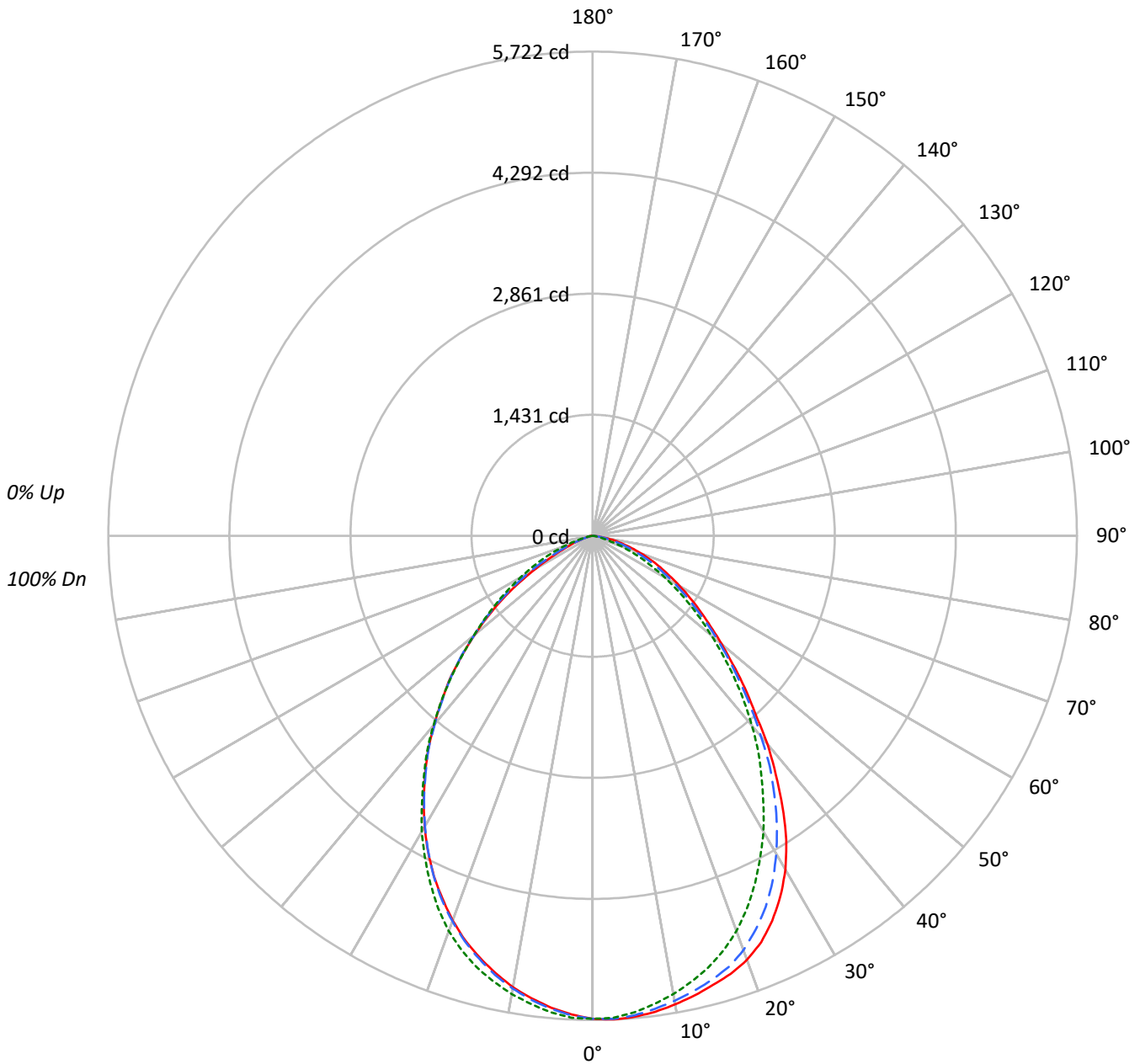
Lumens per Lamp: N/A
Luminaire Lumens: 10383.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P683967

CATALOG NUMBER: LX6C120D010 EX6C1209040 6LBLWWH

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°	312924	312924	312924
5°	314015	311165	308100
10°	313054	306107	301625
15°	311875	299786	292817
20°	311177	289913	282189
25°	303610	274359	268328
30°	288462	255546	251292
35°	261823	232671	231132
40°	229716	209392	208297
45°	196951	182965	184453
50°	169530	155944	155125
55°	148172	131666	123599
60°	130220	107919	84357
65°	113994	83628	50771
70°	97180	56276	29829
75°	78433	29251	16246
80°	54521	11523	9092
85°	21700	3648	4843



TEST NUMBER: P683967

CATALOG NUMBER: LX6C120D010 EX6C1209040 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.9	5.2
10°-20°	1493.6	14.4
20°-30°	2125.4	20.5
30°-40°	2237.0	21.5
40°-50°	1864.3	18.0
50°-60°	1259.5	12.1
60°-70°	638.6	6.2
70°-80°	206.1	2.0
80°-90°	23.7	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°	4153.8	40.0
0°-40°	6390.8	61.6
0°-60°	9514.6	91.6
0°-90°	10383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10383.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5708	5708	5708	5708	5708	
5°	5706	5689	5654	5612	5599	542
15°	5495	5436	5282	5177	5159	1553
25°	5019	4837	4536	4442	4436	2300
35°	3912	3743	3477	3442	3454	2435
45°	2540	2475	2360	2370	2379	1966
55°	1550	1476	1378	1335	1293	1396
65°	879	792	645	466	391	875
75°	370	290	138	75	77	400
85°	34	19	6	8	8	59
90°	0	0	0	0	0	



TEST NUMBER: P683967

CATALOG NUMBER: LX6C120D010 EX6C1209040 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2
2.5°	5721.6	5721.6	5721.6	5721.6	5721.6	5721.6	5719.7	5719.7	5715.9	5715.9	5713.9
5°	5706.3	5708.2	5708.2	5706.3	5706.3	5702.4	5702.4	5700.5	5694.8	5690.9	5689.0
7.5°	5673.6	5673.6	5671.7	5669.8	5667.9	5662.1	5660.2	5654.5	5650.6	5646.8	5639.1
10°	5623.8	5623.8	5621.8	5618.0	5616.1	5612.2	5612.2	5604.6	5596.9	5587.3	5581.5
12.5°	5564.3	5566.2	5562.4	5560.4	5554.7	5552.8	5548.9	5539.3	5533.6	5522.1	5512.5
15°	5495.2	5499.0	5499.0	5491.4	5485.6	5483.7	5477.9	5472.2	5458.7	5447.2	5435.7
17.5°	5428.0	5431.9	5428.0	5422.3	5416.5	5408.9	5405.0	5393.5	5376.2	5360.9	5343.6
20°	5334.0	5339.8	5332.1	5322.5	5311.0	5309.1	5303.3	5284.1	5259.2	5236.2	5211.2
22.5°	5201.6	5197.8	5192.0	5188.2	5169.0	5157.5	5149.8	5124.9	5098.0	5067.3	5036.6
25°	5019.4	5027.0	5015.5	4998.3	4988.7	4977.2	4958.0	4931.1	4906.2	4873.5	4837.1
27.5°	4804.5	4804.5	4789.1	4783.4	4762.3	4746.9	4737.3	4710.4	4677.8	4645.2	4604.9
30°	4557.0	4545.4	4545.4	4518.6	4501.3	4495.6	4486.0	4441.8	4413.0	4378.5	4338.2
32.5°	4257.6	4255.7	4248.0	4230.8	4207.7	4188.6	4188.6	4157.9	4119.5	4077.3	4052.3
35°	3912.3	3914.2	3910.3	3891.2	3891.2	3868.1	3864.3	3837.4	3806.7	3774.1	3743.4
37.5°	3555.4	3563.1	3555.4	3545.8	3540.0	3538.1	3520.8	3501.7	3478.6	3459.4	3436.4
40°	3210.0	3198.5	3202.3	3183.2	3185.1	3181.2	3173.6	3148.6	3135.2	3116.0	3091.1
42.5°	2837.8	2849.3	2853.1	2841.6	2837.8	2830.1	2837.8	2828.2	2812.8	2803.2	2780.2
45°	2540.4	2528.9	2534.6	2530.8	2532.7	2517.4	2511.6	2507.8	2502.0	2484.7	2475.1
47.5°	2244.9	2246.8	2244.9	2237.2	2233.4	2233.4	2225.7	2214.2	2214.2	2202.7	2195.0
50°	1987.8	1987.8	1991.6	1982.0	1978.2	1970.5	1972.4	1960.9	1953.3	1943.7	1937.9
52.5°	1751.8	1753.7	1746.0	1748.0	1744.1	1744.1	1736.4	1728.8	1721.1	1703.8	1700.0
55°	1550.3	1552.2	1542.6	1546.5	1535.0	1529.2	1525.4	1513.9	1513.9	1496.6	1475.5
57.5°	1362.3	1360.4	1358.5	1352.7	1345.0	1339.3	1333.5	1320.1	1314.3	1302.8	1285.5
60°	1187.7	1185.8	1181.9	1180.0	1174.3	1160.8	1160.8	1151.2	1132.0	1120.5	1103.3
62.5°	1022.7	1022.7	1020.8	1015.0	1009.2	1003.5	999.7	992.0	972.8	959.4	944.0
65°	878.8	876.9	871.1	861.5	857.7	857.7	844.2	838.5	823.1	809.7	792.4
67.5°	740.6	732.9	729.1	731.0	719.5	719.5	708.0	698.4	685.0	662.0	648.5
70°	606.3	602.5	598.6	594.8	592.9	585.2	579.5	567.9	554.5	537.2	516.1
72.5°	485.4	485.4	479.7	475.8	470.1	462.4	458.6	449.0	433.6	414.4	399.1
75°	370.3	370.3	370.3	362.6	358.8	355.0	343.5	337.7	320.4	308.9	289.7
77.5°	272.5	268.6	262.9	260.9	257.1	253.3	247.5	237.9	222.6	209.1	197.6
80°	172.7	178.4	172.7	172.7	163.1	159.3	157.3	145.8	140.1	128.6	119.0
82.5°	95.9	97.9	94.0	92.1	86.3	84.4	84.4	76.7	72.9	65.2	59.5
85°	34.5	36.5	34.5	34.5	30.7	32.6	30.7	28.8	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



TEST NUMBER: P683967

CATALOG NUMBER: LX6C120D010 EX6C1209040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2
2.5°	5713.9	5710.1	5710.1	5708.2	5706.3	5706.3	5706.3	5704.3	5700.5	5700.5	5698.6
5°	5685.2	5681.3	5675.6	5671.7	5669.8	5667.9	5666.0	5664.1	5656.4	5654.5	5648.7
7.5°	5633.4	5629.5	5619.9	5616.1	5610.3	5608.4	5600.7	5596.9	5589.2	5581.5	5577.7
10°	5572.0	5562.4	5554.7	5545.1	5541.3	5535.5	5525.9	5514.4	5508.6	5499.0	5491.4
12.5°	5502.9	5491.4	5476.0	5464.5	5460.7	5451.1	5435.7	5426.1	5412.7	5397.4	5383.9
15°	5416.5	5403.1	5389.7	5368.6	5362.8	5351.3	5336.0	5316.8	5297.6	5282.2	5266.9
17.5°	5322.5	5301.4	5280.3	5257.3	5240.0	5234.3	5209.3	5182.5	5165.2	5138.3	5121.1
20°	5190.1	5161.3	5126.8	5103.8	5088.4	5071.2	5042.4	5013.6	4992.5	4969.5	4944.5
22.5°	5007.9	4981.0	4940.7	4906.2	4894.6	4869.7	4844.8	4817.9	4791.0	4766.1	4735.4
25°	4793.0	4764.2	4723.9	4689.3	4670.2	4658.6	4610.7	4583.8	4557.0	4535.8	4514.7
27.5°	4572.3	4520.5	4493.6	4439.9	4422.6	4418.8	4374.7	4345.9	4317.1	4288.3	4261.5
30°	4299.8	4259.6	4219.3	4180.9	4157.9	4144.4	4111.8	4075.4	4056.2	4037.0	4010.1
32.5°	4017.8	3981.3	3931.5	3895.0	3877.7	3858.5	3829.8	3804.8	3776.0	3754.9	3749.2
35°	3716.6	3676.3	3634.0	3607.2	3603.4	3580.3	3551.5	3530.4	3509.3	3476.7	3471.0
37.5°	3394.2	3371.2	3342.4	3304.0	3286.8	3286.8	3258.0	3242.6	3215.8	3213.9	3198.5
40°	3077.6	3068.0	3023.9	3012.4	3008.5	2981.7	2974.0	2947.1	2928.0	2926.0	2903.0
42.5°	2764.9	2739.9	2732.3	2713.1	2695.8	2692.0	2674.7	2663.2	2655.5	2644.0	2632.5
45°	2454.0	2448.3	2429.1	2415.7	2409.9	2402.2	2396.5	2373.5	2369.6	2360.0	2354.3
47.5°	2185.4	2170.1	2152.8	2137.5	2135.5	2124.0	2110.6	2110.6	2089.5	2087.6	2083.7
50°	1918.7	1907.2	1897.6	1876.5	1880.3	1865.0	1863.1	1845.8	1836.2	1828.5	1838.1
52.5°	1684.6	1661.6	1657.8	1640.5	1634.7	1636.7	1615.6	1609.8	1606.0	1598.3	1594.5
55°	1462.1	1450.5	1435.2	1423.7	1414.1	1404.5	1396.8	1396.8	1375.7	1377.6	1368.0
57.5°	1266.4	1256.8	1237.6	1220.3	1216.5	1205.0	1195.4	1185.8	1183.8	1170.4	1160.8
60°	1091.7	1074.5	1049.5	1041.9	1030.4	1020.8	1011.2	999.7	993.9	984.3	967.0
62.5°	928.7	899.9	890.3	874.9	861.5	855.7	840.4	827.0	817.4	803.9	790.5
65°	773.2	752.1	734.9	717.6	715.7	700.3	686.9	675.4	656.2	644.7	619.7
67.5°	631.3	612.1	592.9	575.6	562.2	558.3	537.2	523.8	510.4	487.4	466.2
70°	500.8	481.6	466.2	445.1	439.4	424.0	408.7	395.3	372.2	351.1	333.9
72.5°	381.8	360.7	343.5	328.1	318.5	305.1	289.7	274.4	251.4	230.2	214.9
75°	272.5	257.1	239.8	224.5	216.8	209.1	191.9	174.6	159.3	138.1	124.7
77.5°	184.2	168.8	153.5	140.1	130.5	124.7	113.2	99.8	86.3	74.8	65.2
80°	107.4	97.9	86.3	74.8	72.9	67.2	57.6	49.9	42.2	36.5	28.8
82.5°	51.8	46.0	38.4	32.6	28.8	26.9	23.0	19.2	15.3	13.4	13.4
85°	15.3	13.4	11.5	9.6	7.7	7.7	5.8	5.8	5.8	5.8	5.8
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: P683967

CATALOG NUMBER: LX6C120D010 EX6C1209040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2
2.5°	5692.8	5690.9	5689.0	5687.1	5683.2	5683.2	5677.5	5673.6	5673.6	5669.8	5667.9
5°	5642.9	5637.2	5635.3	5631.4	5627.6	5625.7	5618.0	5616.1	5612.2	5608.4	5608.4
7.5°	5572.0	5564.3	5556.6	5552.8	5550.8	5545.1	5541.3	5539.3	5533.6	5529.7	5522.1
10°	5477.9	5472.2	5462.6	5458.7	5454.9	5451.1	5441.5	5435.7	5433.8	5430.0	5426.1
12.5°	5368.6	5360.9	5351.3	5343.6	5339.8	5334.0	5324.4	5318.7	5318.7	5311.0	5311.0
15°	5251.5	5240.0	5222.7	5215.1	5213.2	5201.6	5194.0	5186.3	5176.7	5172.9	5172.9
17.5°	5101.9	5082.7	5067.3	5067.3	5059.7	5048.1	5036.6	5030.9	5025.1	5017.4	5013.6
20°	4925.3	4911.9	4894.6	4894.6	4877.4	4873.5	4862.0	4860.1	4846.7	4848.6	4842.8
22.5°	4712.4	4704.7	4695.1	4687.4	4677.8	4666.3	4660.6	4662.5	4656.7	4654.8	4652.9
25°	4497.5	4476.4	4464.9	4461.0	4457.2	4447.6	4443.7	4441.8	4441.8	4436.1	4438.0
27.5°	4250.0	4234.6	4219.3	4225.0	4217.3	4211.6	4207.7	4202.0	4205.8	4203.9	4205.8
30°	3996.7	3977.5	3967.9	3971.7	3969.8	3954.5	3962.2	3960.2	3962.2	3962.2	3966.0
32.5°	3730.0	3716.6	3714.6	3716.6	3699.3	3701.2	3693.5	3705.0	3707.0	3718.5	3708.9
35°	3459.4	3451.8	3438.3	3436.4	3438.3	3436.4	3436.4	3444.1	3442.2	3453.7	3449.9
37.5°	3181.2	3177.4	3164.0	3167.8	3160.1	3173.6	3177.4	3173.6	3187.0	3183.2	3181.2
40°	2908.8	2903.0	2895.3	2910.7	2901.1	2893.4	2906.9	2895.3	2899.2	2910.7	2910.7
42.5°	2632.5	2622.9	2622.9	2622.9	2621.0	2621.0	2626.7	2632.5	2628.6	2630.6	2645.9
45°	2354.3	2352.3	2346.6	2350.4	2348.5	2358.1	2358.1	2361.9	2369.6	2377.3	2373.5
47.5°	2085.6	2081.8	2087.6	2083.7	2085.6	2079.9	2083.7	2095.2	2104.8	2091.4	2104.8
50°	1834.3	1826.6	1824.7	1830.5	1828.5	1826.6	1830.5	1830.5	1826.6	1826.6	1840.0
52.5°	1594.5	1586.8	1581.0	1590.6	1584.9	1586.8	1579.1	1579.1	1582.9	1579.1	1573.3
55°	1370.0	1364.2	1356.5	1360.4	1350.8	1348.9	1341.2	1341.2	1335.4	1331.6	1320.1
57.5°	1155.1	1151.2	1134.0	1132.0	1134.0	1120.5	1107.1	1101.3	1086.0	1082.2	1080.2
60°	965.1	944.0	934.4	922.9	915.2	909.5	894.1	884.5	861.5	848.1	846.2
62.5°	767.5	757.9	746.4	729.1	725.3	706.1	690.7	665.8	654.3	637.0	619.7
65°	608.2	583.3	566.0	556.4	541.1	523.8	506.5	479.7	466.2	445.1	427.9
67.5°	445.1	424.0	401.0	393.3	379.9	358.8	341.5	318.5	307.0	287.8	282.1
70°	305.1	285.9	268.6	257.1	247.5	226.4	209.1	201.5	190.0	186.1	186.1
72.5°	195.7	178.4	159.3	153.5	145.8	134.3	122.8	119.0	122.8	120.9	120.9
75°	109.4	99.8	86.3	80.6	80.6	76.7	74.8	74.8	74.8	74.8	74.8
77.5°	55.6	49.9	46.0	44.1	44.1	44.1	46.0	46.0	46.0	48.0	46.0
80°	26.9	24.9	24.9	24.9	26.9	26.9	26.9	26.9	26.9	28.8	26.9
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°	5.8	5.8	5.8	5.8	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: P683967

CATALOG NUMBER: LX6C120D010 EX6C1209040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2	5708.2
2.5°	5666.0	5662.1	5662.1	5660.2	5660.2	5660.2	5660.2	5662.1
5°	5604.6	5602.7	5602.7	5598.8	5598.8	5598.8	5598.8	5598.8
7.5°	5522.1	5518.2	5520.1	5516.3	5516.3	5518.2	5516.3	5514.4
10°	5420.4	5418.5	5420.4	5420.4	5416.5	5414.6	5416.5	5418.5
12.5°	5305.3	5303.3	5299.5	5301.4	5301.4	5299.5	5297.6	5293.7
15°	5170.9	5169.0	5167.1	5165.2	5163.3	5165.2	5163.3	5159.4
17.5°	5013.6	5013.6	5011.7	5009.8	5007.9	5004.0	5005.9	5011.7
20°	4844.8	4842.8	4839.0	4840.9	4833.2	4829.4	4831.3	4837.1
22.5°	4651.0	4645.2	4649.1	4643.3	4643.3	4645.2	4643.3	4639.5
25°	4439.9	4432.2	4436.1	4438.0	4438.0	4436.1	4434.2	4436.1
27.5°	4205.8	4211.6	4211.6	4207.7	4213.5	4205.8	4209.7	4211.6
30°	3966.0	3960.2	3958.3	3966.0	3977.5	3967.9	3967.9	3969.8
32.5°	3718.5	3710.8	3710.8	3714.6	3712.7	3712.7	3720.4	3710.8
35°	3453.7	3457.5	3442.2	3451.8	3455.6	3451.8	3453.7	3453.7
37.5°	3187.0	3183.2	3183.2	3183.2	3188.9	3188.9	3192.7	3190.8
40°	2924.1	2916.4	2914.5	2918.4	2910.7	2916.4	2916.4	2910.7
42.5°	2640.2	2642.1	2651.7	2642.1	2644.0	2642.1	2638.2	2636.3
45°	2377.3	2383.0	2379.2	2377.3	2379.2	2371.5	2373.5	2379.2
47.5°	2099.1	2110.6	2099.1	2106.8	2104.8	2101.0	2097.2	2089.5
50°	1838.1	1842.0	1840.0	1838.1	1836.2	1834.3	1824.7	1818.9
52.5°	1571.4	1571.4	1571.4	1571.4	1552.2	1561.8	1558.0	1546.5
55°	1310.5	1316.2	1308.6	1308.6	1295.1	1295.1	1291.3	1293.2
57.5°	1059.1	1053.4	1047.6	1047.6	1034.2	1028.4	1022.7	1015.0
60°	825.0	819.3	811.6	802.0	788.6	788.6	784.8	769.4
62.5°	604.4	594.8	589.0	581.4	569.9	562.2	556.4	560.3
65°	414.4	404.8	397.2	397.2	397.2	393.3	391.4	391.4
67.5°	272.5	278.2	274.4	278.2	278.2	274.4	272.5	276.3
70°	188.0	188.0	186.1	186.1	186.1	186.1	184.2	186.1
72.5°	120.9	120.9	120.9	122.8	120.9	120.9	122.8	122.8
75°	76.7	76.7	76.7	78.7	76.7	76.7	78.7	76.7
77.5°	46.0	48.0	48.0	48.0	48.0	46.0	48.0	48.0
80°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
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)