

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: P683966

Luminaire Tested: **LX6C120D010 EX6C1209035 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683966
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: LX6C120D010 EX6C1209035 6LCSWH
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

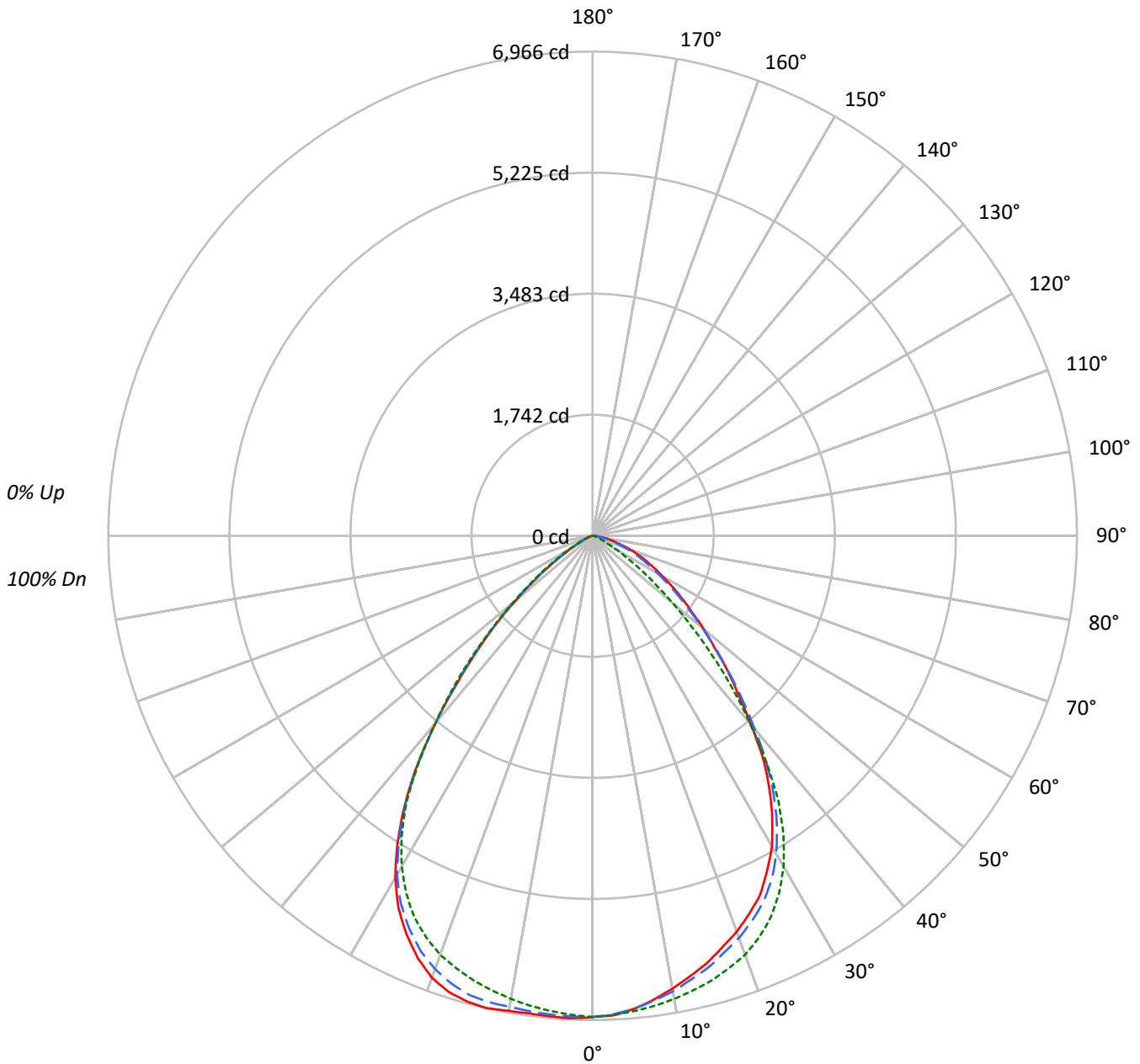
Lumens per Lamp: N/A
Luminaire Lumens: 11616.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P683966

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LCSWH

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	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°	379575	379575	379575
5°	375951	377789	381938
10°	368207	376574	386354
15°	361160	375865	393907
20°	353671	374159	394653
25°	344959	366699	382885
30°	326607	347762	359410
35°	296596	311708	314505
40°	253139	251922	250734
45°	212634	188647	182817
50°	177589	127655	121241
55°	149462	78325	71137
60°	126525	41269	35754
65°	109558	21701	17330
70°	91121	13400	9377
75°	67334	8854	5338
80°	52816	5272	2683
85°	42142	5346	0



TEST NUMBER: P683966

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LCSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.5	5.6
10°-20°	1868.4	16.1
20°-30°	2759.0	23.8
30°-40°	2843.3	24.5
40°-50°	1963.9	16.9
50°-60°	968.0	8.3
60°-70°	392.2	3.4
70°-80°	139.8	1.2
80°-90°	28.9	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°	5279.9	45.5
0°-40°	8123.2	69.9
0°-60°	11055.1	95.2
0°-90°	11616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11616.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6924	6924	6924	6924	6924	
5°	6832	6832	6865	6916	6941	645
15°	6364	6431	6623	6840	6941	1792
25°	5703	5812	6062	6238	6330	2607
35°	4432	4541	4658	4683	4700	2746
45°	2743	2759	2433	2400	2358	2120
55°	1564	1505	820	770	744	1413
65°	845	761	167	134	134	839
75°	318	268	42	25	25	357
85°	67	50	8	0	0	82
90°	0	0	0	0	0	



TEST NUMBER: P683966

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LCSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0
2.5°	6907.0	6882.2	6898.8	6865.2	6907.0	6865.2	6873.7	6882.2	6873.7	6882.2	6890.3
5°	6831.8	6806.7	6831.8	6790.0	6831.8	6806.7	6806.7	6815.2	6815.2	6823.4	6831.8
7.5°	6731.5	6706.4	6731.5	6689.7	6739.7	6714.9	6714.9	6731.5	6723.0	6731.5	6748.2
10°	6614.6	6580.9	6606.1	6580.9	6631.2	6597.6	6614.6	6614.6	6614.6	6639.4	6656.4
12.5°	6489.1	6455.4	6489.1	6447.3	6497.3	6472.4	6480.6	6505.8	6513.9	6530.9	6539.1
15°	6363.6	6321.8	6338.5	6313.3	6363.6	6338.5	6347.0	6380.3	6380.3	6405.4	6430.6
17.5°	6204.8	6171.2	6204.8	6171.2	6213.0	6196.3	6213.0	6238.2	6238.2	6263.3	6288.2
20°	6062.4	6029.0	6054.2	6029.0	6079.4	6054.2	6062.4	6096.0	6104.2	6129.4	6154.5
22.5°	5886.9	5861.7	5878.4	5853.6	5903.6	5886.9	5895.4	5928.7	5937.2	5953.9	5995.7
25°	5703.0	5652.6	5677.8	5661.1	5711.4	5686.3	5703.0	5736.3	5753.3	5778.1	5811.8
27.5°	5435.3	5410.2	5426.9	5426.9	5468.7	5443.8	5452.0	5485.7	5510.5	5535.7	5577.5
30°	5159.6	5117.8	5134.4	5142.6	5176.2	5159.6	5176.2	5209.6	5218.1	5251.4	5284.7
32.5°	4808.3	4791.3	4825.0	4808.3	4825.0	4825.0	4833.2	4858.3	4875.0	4892.0	4933.8
35°	4431.9	4398.6	4431.9	4415.3	4457.1	4431.9	4457.1	4482.2	4482.2	4515.6	4540.7
37.5°	4022.2	3980.4	3997.0	3997.0	4013.7	4005.5	4005.5	4047.3	4055.5	4080.7	4105.8
40°	3537.3	3520.3	3554.0	3545.5	3554.0	3554.0	3562.1	3587.3	3604.0	3612.5	3620.9
42.5°	3102.4	3110.6	3119.1	3119.1	3119.1	3119.1	3119.1	3152.4	3144.2	3169.4	3177.6
45°	2742.7	2709.3	2726.0	2717.8	2742.7	2717.8	2742.7	2767.8	2751.2	2776.3	2759.3
47.5°	2374.8	2374.8	2374.8	2366.6	2383.3	2374.8	2391.4	2399.9	2399.9	2399.9	2391.4
50°	2082.3	2057.2	2065.3	2065.3	2073.8	2065.3	2082.3	2090.5	2090.5	2073.8	2040.5
52.5°	1797.7	1789.6	1789.6	1806.2	1806.2	1797.7	1797.7	1797.7	1797.7	1772.9	1755.9
55°	1563.8	1547.1	1555.3	1555.3	1555.3	1555.3	1563.8	1555.3	1555.3	1530.1	1505.3
57.5°	1354.7	1338.0	1338.0	1338.0	1346.2	1338.0	1338.0	1338.0	1329.5	1304.4	1271.0
60°	1154.0	1145.6	1154.0	1154.0	1162.2	1154.0	1154.0	1154.0	1137.4	1112.2	1078.6
62.5°	986.8	986.8	986.8	994.9	994.9	986.8	986.8	978.3	970.1	936.4	903.1
65°	844.6	836.1	844.6	844.6	852.8	852.8	844.6	836.1	828.0	794.3	761.0
67.5°	702.5	694.0	702.5	702.5	710.7	702.5	702.5	702.5	677.3	660.7	627.0
70°	568.5	560.4	560.4	560.4	568.5	551.9	560.4	560.4	543.7	518.5	484.9
72.5°	434.9	434.9	434.9	434.9	434.9	434.9	426.4	426.4	409.7	384.6	367.9
75°	317.9	317.9	326.1	326.1	317.9	317.9	317.9	309.4	300.9	284.3	267.6
77.5°	234.3	234.3	234.3	234.3	225.8	225.8	225.8	217.3	209.1	200.6	184.0
80°	167.3	167.3	167.3	158.8	167.3	158.8	158.8	158.8	142.1	133.6	125.5
82.5°	117.0	108.8	108.8	108.8	108.8	108.8	108.8	100.3	100.3	92.1	83.6
85°	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	58.5	50.3	50.3
87.5°	33.3	41.8	41.8	41.8	41.8	41.8	41.8	33.3	33.3	33.3	25.2
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: P683966

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LCSWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0
2.5°	6890.3	6890.3	6907.0	6882.2	6924.0	6898.8	6890.3	6932.2	6907.0	6898.8	6915.5
5°	6831.8	6840.3	6848.5	6831.8	6873.7	6848.5	6848.5	6890.3	6873.7	6865.2	6890.3
7.5°	6756.7	6764.9	6781.5	6773.4	6806.7	6790.0	6798.5	6840.3	6823.4	6823.4	6848.5
10°	6664.6	6681.2	6698.2	6698.2	6739.7	6723.0	6723.0	6773.4	6756.7	6764.9	6798.5
12.5°	6555.8	6580.9	6606.1	6614.6	6656.4	6631.2	6639.4	6698.2	6689.7	6698.2	6731.5
15°	6438.8	6472.4	6497.3	6497.3	6547.6	6522.4	6547.6	6606.1	6589.4	6622.7	6664.6
17.5°	6305.1	6338.5	6371.8	6380.3	6430.6	6413.6	6447.3	6505.8	6505.8	6522.4	6572.7
20°	6179.7	6221.5	6238.2	6263.3	6313.3	6305.1	6321.8	6388.8	6388.8	6413.6	6463.9
22.5°	6012.4	6054.2	6087.5	6112.7	6154.5	6154.5	6179.7	6238.2	6238.2	6254.8	6305.1
25°	5828.4	5878.4	5903.6	5928.7	5970.6	5962.1	5987.2	6037.5	6045.7	6062.4	6112.7
27.5°	5594.1	5636.0	5669.6	5686.3	5744.8	5711.4	5736.3	5795.1	5786.6	5803.3	5845.1
30°	5301.7	5343.5	5376.9	5376.9	5426.9	5426.9	5452.0	5477.2	5477.2	5493.8	5527.5
32.5°	4958.6	5008.9	5008.9	5034.1	5067.4	5034.1	5067.4	5100.8	5084.1	5109.3	5134.4
35°	4565.6	4590.7	4599.2	4599.2	4624.4	4615.9	4607.4	4632.5	4615.9	4657.7	4682.9
37.5°	4089.2	4122.5	4105.8	4122.5	4114.0	4089.2	4089.2	4131.0	4097.3	4105.8	4131.0
40°	3629.1	3629.1	3620.9	3579.1	3587.3	3562.1	3554.0	3562.1	3528.8	3520.3	3554.0
42.5°	3152.4	3144.2	3119.1	3060.6	3068.8	3026.9	2993.6	2993.6	2976.9	2968.5	2976.9
45°	2726.0	2700.9	2659.0	2592.4	2575.4	2542.1	2475.1	2458.4	2433.3	2433.3	2441.7
47.5°	2332.9	2299.6	2232.6	2157.5	2115.7	2073.8	2006.8	1981.7	1939.9	1923.2	1939.9
50°	2006.8	1948.4	1864.7	1755.9	1714.1	1664.1	1597.1	1555.3	1513.5	1496.8	1488.3
52.5°	1705.9	1622.3	1538.6	1405.0	1371.3	1321.3	1229.2	1187.4	1145.6	1112.2	1112.2
55°	1446.5	1371.3	1254.4	1128.9	1078.6	1028.6	936.4	878.0	836.1	819.5	802.8
57.5°	1212.5	1128.9	1020.1	886.4	836.1	786.1	694.0	635.5	593.7	568.5	551.9
60°	1020.1	928.3	819.5	702.5	644.0	593.7	501.9	443.1	401.2	376.4	359.4
62.5°	836.1	761.0	652.2	543.7	493.4	443.1	367.9	309.4	267.6	250.9	225.8
65°	702.5	627.0	526.7	434.9	393.1	342.8	276.1	225.8	192.4	167.3	150.6
67.5°	568.5	510.0	426.4	342.8	300.9	267.6	209.1	167.3	133.6	117.0	108.8
70°	451.6	393.1	326.1	259.1	234.3	200.6	158.8	117.0	100.3	83.6	75.2
72.5°	334.6	292.8	242.4	192.4	167.3	150.6	108.8	92.1	67.0	58.5	50.3
75°	242.4	209.1	175.5	133.6	117.0	108.8	83.6	58.5	50.3	41.8	33.3
77.5°	167.3	150.6	117.0	92.1	83.6	75.2	58.5	41.8	33.3	25.2	25.2
80°	108.8	92.1	75.2	58.5	58.5	50.3	33.3	25.2	25.2	16.7	16.7
82.5°	67.0	58.5	50.3	41.8	33.3	33.3	25.2	16.7	16.7	8.5	8.5
85°	41.8	33.3	25.2	25.2	16.7	16.7	16.7	8.5	8.5	8.5	8.5
87.5°	16.7	16.7	16.7	8.5	8.5	8.5	8.5	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



TEST NUMBER: P683966

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LCSWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0
2.5°	6915.5	6915.5	6932.2	6907.0	6924.0	6924.0	6940.6	6907.0	6924.0	6932.2	6948.8
5°	6882.2	6890.3	6907.0	6898.8	6907.0	6907.0	6924.0	6882.2	6915.5	6915.5	6940.6
7.5°	6848.5	6848.5	6865.2	6857.0	6873.7	6882.2	6898.8	6865.2	6898.8	6898.8	6924.0
10°	6806.7	6806.7	6831.8	6823.4	6848.5	6857.0	6882.2	6848.5	6882.2	6890.3	6915.5
12.5°	6748.2	6756.7	6781.5	6781.5	6806.7	6823.4	6848.5	6831.8	6873.7	6882.2	6915.5
15°	6681.2	6698.2	6731.5	6723.0	6748.2	6773.4	6806.7	6781.5	6840.3	6857.0	6890.3
17.5°	6597.6	6614.6	6639.4	6639.4	6664.6	6681.2	6723.0	6706.4	6756.7	6764.9	6806.7
20°	6472.4	6497.3	6530.9	6522.4	6547.6	6564.2	6597.6	6580.9	6631.2	6647.9	6689.7
22.5°	6321.8	6338.5	6363.6	6363.6	6388.8	6405.4	6438.8	6413.6	6463.9	6472.4	6505.8
25°	6121.2	6137.8	6154.5	6163.0	6187.8	6196.3	6213.0	6196.3	6238.2	6246.6	6288.2
27.5°	5861.7	5870.2	5895.4	5895.4	5912.1	5920.2	5945.4	5912.1	5970.6	5970.6	5995.7
30°	5552.3	5544.2	5577.5	5560.8	5577.5	5577.5	5602.6	5586.0	5627.8	5611.1	5636.0
32.5°	5142.6	5159.6	5159.6	5142.6	5176.2	5167.7	5167.7	5151.1	5176.2	5184.4	5201.1
35°	4666.2	4691.0	4691.0	4699.5	4708.0	4682.9	4691.0	4641.0	4682.9	4691.0	4699.5
37.5°	4147.7	4122.5	4139.2	4114.0	4155.8	4105.8	4105.8	4072.5	4105.8	4105.8	4114.0
40°	3554.0	3545.5	3562.1	3545.5	3537.3	3528.8	3512.1	3487.0	3520.3	3503.7	3528.8
42.5°	2993.6	2985.1	2985.1	2968.5	2960.3	2960.3	2943.6	2926.6	2918.5	2918.5	2960.3
45°	2416.6	2433.3	2416.6	2408.4	2425.1	2408.4	2416.6	2383.3	2399.9	2383.3	2399.9
47.5°	1931.7	1939.9	1923.2	1906.5	1931.7	1906.5	1906.5	1881.4	1915.0	1915.0	1898.0
50°	1496.8	1488.3	1471.6	1488.3	1480.1	1480.1	1480.1	1455.0	1471.6	1446.5	1463.5
52.5°	1103.7	1095.6	1095.6	1087.1	1095.6	1087.1	1087.1	1078.6	1078.6	1070.4	1078.6
55°	802.8	794.3	777.6	777.6	777.6	786.1	777.6	769.5	769.5	761.0	769.5
57.5°	543.7	526.7	526.7	526.7	526.7	518.5	518.5	510.0	518.5	510.0	518.5
60°	351.2	351.2	334.6	334.6	334.6	334.6	334.6	326.1	334.6	334.6	334.6
62.5°	217.3	217.3	209.1	200.6	209.1	200.6	200.6	200.6	209.1	200.6	209.1
65°	142.1	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6
67.5°	100.3	92.1	92.1	92.1	92.1	92.1	92.1	83.6	92.1	92.1	92.1
70°	67.0	67.0	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
72.5°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
75°	33.3	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
77.5°	25.2	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
80°	16.7	16.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	8.5	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	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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: P683966

CATALOG NUMBER: LX6C120D010 EX6C1209035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0	6924.0
2.5°	6924.0	6932.2	6915.5	6924.0	6907.0	6924.0	6932.2	6948.8
5°	6907.0	6915.5	6898.8	6915.5	6898.8	6915.5	6924.0	6940.6
7.5°	6890.3	6907.0	6890.3	6907.0	6890.3	6907.0	6915.5	6932.2
10°	6890.3	6915.5	6898.8	6924.0	6898.8	6915.5	6932.2	6940.6
12.5°	6890.3	6915.5	6907.0	6924.0	6915.5	6932.2	6948.8	6965.5
15°	6873.7	6898.8	6882.2	6907.0	6898.8	6907.0	6940.6	6940.6
17.5°	6781.5	6806.7	6806.7	6823.4	6823.4	6848.5	6865.2	6882.2
20°	6664.6	6689.7	6681.2	6706.4	6706.4	6731.5	6748.2	6764.9
22.5°	6489.1	6522.4	6513.9	6539.1	6530.9	6547.6	6580.9	6572.7
25°	6263.3	6305.1	6296.6	6313.3	6305.1	6305.1	6321.8	6330.0
27.5°	5987.2	6012.4	6003.9	6020.9	6003.9	6020.9	6037.5	6045.7
30°	5627.8	5644.5	5636.0	5644.5	5636.0	5652.6	5661.1	5677.8
32.5°	5192.9	5218.1	5192.9	5209.6	5201.1	5201.1	5234.7	5218.1
35°	4674.4	4682.9	4691.0	4691.0	4674.4	4682.9	4699.5	4699.5
37.5°	4097.3	4139.2	4089.2	4114.0	4105.8	4105.8	4105.8	4131.0
40°	3495.5	3503.7	3487.0	3487.0	3487.0	3478.5	3512.1	3503.7
42.5°	2926.6	2935.1	2926.6	2901.8	2910.0	2910.0	2935.1	2901.8
45°	2374.8	2391.4	2383.3	2383.3	2366.6	2366.6	2374.8	2358.1
47.5°	1881.4	1898.0	1873.2	1881.4	1864.7	1881.4	1873.2	1889.9
50°	1429.8	1446.5	1438.3	1446.5	1446.5	1429.8	1455.0	1421.6
52.5°	1070.4	1078.6	1070.4	1061.9	1053.7	1053.7	1070.4	1061.9
55°	761.0	752.5	752.5	752.5	761.0	761.0	752.5	744.3
57.5°	510.0	510.0	501.9	501.9	510.0	493.4	501.9	493.4
60°	326.1	326.1	326.1	326.1	317.9	326.1	326.1	326.1
62.5°	200.6	200.6	200.6	200.6	200.6	200.6	200.6	200.6
65°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6
67.5°	83.6	92.1	92.1	92.1	83.6	83.6	83.6	83.6
70°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
72.5°	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
75°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
77.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
80°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	8.5	8.5	8.5	8.5	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)