

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: P684794

Luminaire Tested: **LX6C120D010 EX61209027 6LCSWLI**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C120D010 EX61209027 6LCSWLI  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

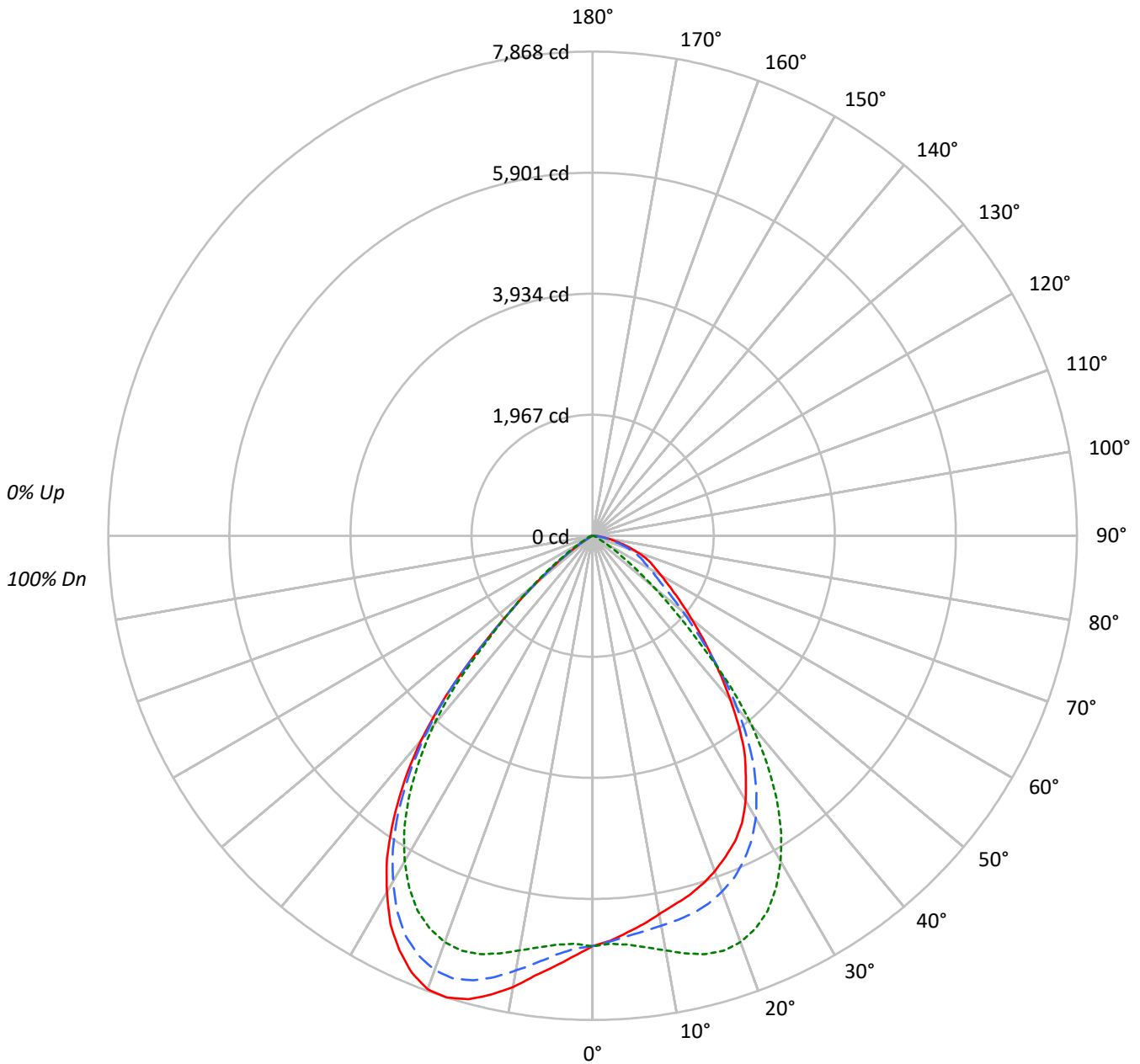
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12190.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 142.3  
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				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	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	365590	365590	365590
5°	356107	366987	386280
10°	347450	380810	414533
15°	343384	399474	442528
20°	338462	409886	457484
25°	331277	406850	449276
30°	314795	386635	422951
35°	288003	348589	377600
40°	249117	287889	309788
45°	210076	188826	202649
50°	178357	109293	102777
55°	154776	52404	39597
60°	139802	24461	9769
65°	135618	14048	3295
70°	121607	11252	3077
75°	99931	8112	1377
80°	74441	4009	0
85°	64220	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.2	5.3
10°-20°	1963.1	16.1
20°-30°	2999.5	24.6
30°-40°	3137.2	25.7
40°-50°	2035.1	16.7
50°-60°	808.0	6.6
60°-70°	383.3	3.1
70°-80°	182.3	1.5
80°-90°	37.2	0.3
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°	5606.8	46.0
0°-40°	8744.0	71.7
0°-60°	11587.2	95.1
0°-90°	12190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12190.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6669	6669	6669	6669	6669	
5°	6471	6529	6669	6835	7020	611
15°	6050	6344	7039	7479	7797	1705
25°	5477	5821	6726	7179	7428	2508
35°	4304	4565	5209	5515	5642	2661
45°	2710	2684	2436	2582	2614	2108
55°	1619	1377	548	427	414	1467
65°	1046	867	108	25	25	1021
75°	472	382	38	13	6	509
85°	102	64	0	0	0	119
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°	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9
2.5°	6586.0	6598.7	6528.7	6509.6	6560.6	6579.5	6586.0	6566.8	6573.3	6598.7	6598.7
5°	6471.2	6483.9	6420.2	6401.0	6452.0	6465.0	6483.9	6477.7	6496.9	6535.0	6528.7
7.5°	6362.9	6382.1	6311.9	6286.5	6350.2	6382.1	6394.8	6394.8	6420.2	6471.2	6477.7
10°	6241.7	6267.3	6203.5	6190.6	6260.8	6292.7	6299.2	6311.9	6350.2	6420.2	6432.9
12.5°	6139.8	6165.2	6120.6	6101.5	6177.9	6209.8	6222.5	6248.1	6292.7	6382.1	6394.8
15°	6050.4	6069.6	6018.6	6005.9	6082.3	6120.6	6126.9	6165.2	6222.5	6324.6	6343.7
17.5°	5935.6	5948.3	5910.2	5897.5	5974.0	6012.1	6018.6	6063.1	6133.3	6235.4	6267.3
20°	5801.7	5814.6	5776.3	5763.6	5840.0	5884.6	5891.1	5929.4	6012.1	6120.6	6152.5
22.5°	5642.3	5668.0	5623.4	5610.5	5687.1	5725.2	5744.4	5776.3	5859.2	5967.5	6012.1
25°	5476.8	5476.8	5444.9	5438.4	5508.6	5553.2	5546.7	5591.3	5674.2	5782.8	5820.9
27.5°	5259.9	5253.4	5221.5	5215.3	5291.8	5330.1	5317.2	5362.0	5438.4	5546.7	5585.1
30°	4973.0	4985.7	4941.2	4928.2	4992.2	5056.0	5049.5	5094.1	5170.5	5272.6	5298.2
32.5°	4628.7	4641.4	4635.2	4616.0	4673.3	4705.1	4724.3	4756.2	4819.9	4928.2	4953.9
35°	4303.5	4284.4	4258.9	4258.9	4316.2	4367.3	4348.1	4386.4	4450.2	4558.5	4565.0
37.5°	3901.9	3895.4	3882.7	3870.0	3933.8	3946.5	3952.9	3978.3	4035.9	4125.0	4112.3
40°	3481.1	3487.3	3481.1	3455.5	3493.8	3544.9	3538.4	3551.3	3602.1	3665.9	3646.9
42.5°	3085.7	3085.7	3085.7	3060.3	3104.9	3130.5	3143.2	3136.8	3149.5	3207.0	3181.3
45°	2709.7	2716.0	2709.7	2703.3	2709.7	2722.4	2709.7	2703.3	2703.3	2722.4	2684.1
47.5°	2384.6	2384.6	2365.4	2346.2	2365.4	2371.6	2352.7	2333.5	2327.0	2320.8	2257.1
50°	2091.3	2084.8	2078.6	2046.7	2065.6	2072.1	2046.7	2033.7	2008.3	1976.5	1900.0
52.5°	1836.3	1829.8	1823.3	1791.5	1804.4	1810.6	1785.2	1759.6	1727.7	1702.3	1606.7
55°	1619.4	1613.0	1613.0	1594.0	1581.1	1594.0	1568.4	1549.2	1504.6	1472.8	1377.2
57.5°	1434.4	1434.4	1421.7	1402.6	1409.0	1409.0	1383.6	1358.0	1319.6	1281.5	1205.1
60°	1275.1	1275.1	1275.1	1255.9	1255.9	1255.9	1243.2	1217.8	1185.9	1147.6	1071.1
62.5°	1147.6	1147.6	1141.1	1122.2	1128.4	1128.4	1115.7	1090.3	1058.4	1032.8	956.4
65°	1045.5	1045.5	1045.5	1026.6	1026.6	1032.8	1020.1	994.7	969.1	937.2	867.0
67.5°	918.0	911.8	911.8	898.9	905.3	911.8	898.9	879.9	848.1	828.9	765.1
70°	758.7	765.1	771.4	752.4	758.7	758.7	752.4	733.3	714.1	694.9	637.7
72.5°	618.5	618.5	612.0	605.8	605.8	612.0	599.3	580.1	567.4	554.7	509.9
75°	471.8	465.4	471.8	459.1	459.1	459.1	446.2	440.0	433.5	414.3	382.4
77.5°	344.3	337.9	337.9	325.2	331.6	331.6	325.2	312.5	299.5	293.3	267.7
80°	235.8	235.8	235.8	229.6	229.6	223.1	223.1	216.9	203.9	197.7	185.0
82.5°	159.4	159.4	159.4	153.1	153.1	153.1	146.7	140.2	134.0	127.5	114.8
85°	102.1	102.1	102.1	95.6	95.6	95.6	89.1	89.1	82.9	76.4	63.7
87.5°	57.3	57.3	57.3	51.0	51.0	51.0	51.0	51.0	44.6	38.3	31.9
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°	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9
2.5°	6643.3	6554.1	6611.4	6611.4	6592.5	6643.3	6675.4	6700.8	6694.3	6637.0	6630.6
5°	6592.5	6515.8	6579.5	6586.0	6566.8	6637.0	6681.6	6713.5	6720.0	6668.9	6675.4
7.5°	6554.1	6490.4	6573.3	6598.7	6592.5	6656.2	6707.3	6758.1	6783.7	6745.4	6751.8
10°	6535.0	6483.9	6573.3	6611.4	6617.9	6688.1	6764.5	6834.7	6866.6	6841.0	6860.1
12.5°	6509.6	6477.7	6579.5	6637.0	6662.4	6732.7	6828.3	6911.2	6962.2	6949.5	6987.6
15°	6483.9	6458.5	6579.5	6662.4	6694.3	6758.1	6866.6	6987.6	7045.1	7038.7	7089.7
17.5°	6420.2	6413.9	6541.4	6630.6	6675.4	6751.8	6853.7	7000.3	7057.8	7070.5	7134.3
20°	6318.3	6318.3	6458.5	6554.1	6605.2	6675.4	6802.9	6943.0	7013.3	7026.0	7096.2
22.5°	6177.9	6190.6	6324.6	6420.2	6496.9	6547.7	6681.6	6828.3	6892.0	6911.2	6987.6
25°	5993.2	6005.9	6133.3	6229.0	6311.9	6369.1	6496.9	6630.6	6707.3	6726.2	6783.7
27.5°	5750.9	5776.3	5897.5	5993.2	6063.1	6101.5	6235.4	6375.6	6432.9	6452.0	6509.6
30°	5470.3	5476.8	5597.8	5680.7	5750.9	5782.8	5897.5	6044.2	6088.8	6107.9	6190.6
32.5°	5125.9	5119.7	5234.5	5310.9	5368.2	5406.5	5527.6	5623.4	5668.0	5699.8	5744.4
35°	4711.6	4705.1	4788.1	4877.4	4922.0	4934.7	5056.0	5157.8	5183.4	5208.8	5266.4
37.5°	4246.2	4246.2	4316.2	4361.0	4411.8	4431.0	4488.5	4603.3	4647.9	4641.4	4686.0
40°	3755.2	3729.8	3780.6	3825.5	3838.2	3844.4	3901.9	3991.0	4022.9	4022.9	4054.8
42.5°	3238.8	3200.5	3207.0	3232.4	3245.1	3200.5	3238.8	3296.1	3276.9	3302.6	3309.1
45°	2690.6	2633.1	2607.7	2550.1	2563.1	2518.3	2492.9	2505.6	2499.3	2435.6	2448.3
47.5°	2244.1	2142.3	2097.5	2014.8	1995.6	1944.6	1912.7	1855.2	1804.4	1804.4	1772.3
50°	1868.2	1766.1	1676.7	1581.1	1549.2	1504.6	1434.4	1358.0	1319.6	1281.5	1249.7
52.5°	1568.4	1460.1	1351.5	1249.7	1205.1	1147.6	1052.0	975.5	905.3	867.0	828.9
55°	1326.1	1205.1	1090.3	981.8	924.5	867.0	771.4	682.2	599.3	548.3	516.4
57.5°	1141.1	1026.6	905.3	790.5	739.5	675.8	573.9	478.1	401.6	344.3	312.5
60°	1007.4	892.6	784.3	663.1	612.0	548.3	440.0	350.6	274.1	223.1	185.0
62.5°	892.6	790.5	675.8	567.4	516.4	452.7	350.6	261.4	191.2	140.2	108.3
65°	809.7	707.6	612.0	503.7	459.1	395.4	299.5	216.9	153.1	108.3	76.4
67.5°	714.1	624.7	529.1	440.0	395.4	344.3	255.0	185.0	127.5	89.1	63.7
70°	599.3	529.1	446.2	363.5	331.6	286.8	210.4	153.1	102.1	70.2	51.0
72.5°	478.1	420.8	357.0	293.3	267.7	223.1	172.1	121.3	76.4	51.0	38.3
75°	363.5	318.7	267.7	223.1	197.7	172.1	127.5	89.1	57.3	38.3	25.4
77.5°	248.7	229.6	191.2	153.1	140.2	121.3	82.9	57.3	38.3	25.4	12.7
80°	172.1	153.1	127.5	102.1	89.1	76.4	51.0	38.3	19.2	12.7	6.5
82.5°	108.3	89.1	76.4	63.7	57.3	44.6	31.9	19.2	12.7	6.5	6.5
85°	57.3	51.0	44.6	31.9	31.9	25.4	19.2	12.7	6.5	0.0	0.0
87.5°	31.9	25.4	19.2	12.7	12.7	6.5	6.5	6.5	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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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9
2.5°	6707.3	6707.3	6700.8	6777.2	6688.1	6777.2	6732.7	6777.2	6713.5	6707.3	6713.5
5°	6758.1	6777.2	6783.7	6853.7	6771.0	6879.3	6841.0	6879.3	6834.7	6847.4	6866.6
7.5°	6860.1	6892.0	6885.8	6974.9	6892.0	7013.3	6987.6	7045.1	7000.3	7013.3	7038.7
10°	6974.9	7013.3	7019.5	7108.9	7032.2	7178.8	7147.0	7210.7	7172.6	7191.8	7223.7
12.5°	7108.9	7153.4	7159.9	7261.8	7178.8	7332.0	7312.8	7376.5	7344.7	7363.8	7402.2
15°	7210.7	7274.5	7287.4	7389.2	7300.1	7459.5	7446.8	7529.7	7478.6	7510.5	7542.4
17.5°	7261.8	7319.3	7344.7	7440.3	7363.8	7523.2	7510.5	7580.7	7542.4	7574.2	7612.6
20°	7229.9	7300.1	7319.3	7414.9	7338.4	7497.8	7478.6	7548.8	7510.5	7535.9	7574.2
22.5°	7115.1	7185.3	7210.7	7300.1	7229.9	7376.5	7370.3	7434.1	7383.0	7414.9	7446.8
25°	6911.2	6987.6	7000.3	7083.2	7006.8	7159.9	7147.0	7217.2	7178.8	7198.0	7242.6
27.5°	6617.9	6707.3	6726.2	6796.4	6739.1	6866.6	6866.6	6923.9	6879.3	6879.3	6923.9
30°	6267.3	6356.4	6369.1	6426.6	6375.6	6490.4	6496.9	6554.1	6483.9	6522.3	6528.7
32.5°	5840.0	5897.5	5935.6	5986.7	5910.2	6056.9	6037.7	6082.3	6044.2	6044.2	6076.1
35°	5323.6	5393.8	5413.0	5476.8	5413.0	5527.6	5527.6	5553.2	5514.9	5514.9	5565.9
37.5°	4762.7	4813.7	4819.9	4883.7	4832.6	4928.2	4922.0	4941.2	4902.8	4928.2	4928.2
40°	4105.8	4144.2	4156.9	4188.7	4182.5	4252.5	4246.2	4258.9	4239.8	4246.2	4258.9
42.5°	3340.9	3391.7	3417.4	3442.8	3404.7	3500.3	3481.1	3500.3	3493.8	3500.3	3519.5
45°	2461.0	2499.3	2518.3	2524.7	2512.0	2569.3	2613.9	2575.8	2582.0	2569.3	2595.0
47.5°	1778.8	1785.2	1772.3	1810.6	1778.8	1804.4	1817.1	1823.3	1785.2	1778.8	1804.4
50°	1217.8	1249.7	1205.1	1224.0	1217.8	1243.2	1230.5	1237.0	1198.6	1217.8	1205.1
52.5°	809.7	803.2	790.5	797.0	784.3	784.3	784.3	797.0	771.4	758.7	746.0
55°	491.0	478.1	452.7	446.2	446.2	452.7	440.0	427.3	427.3	420.8	420.8
57.5°	286.8	267.7	255.0	248.7	235.8	229.6	223.1	223.1	210.4	210.4	210.4
60°	159.4	140.2	127.5	114.8	114.8	108.3	102.1	95.6	95.6	95.6	89.1
62.5°	82.9	70.2	57.3	51.0	51.0	44.6	38.3	38.3	38.3	38.3	31.9
65°	57.3	44.6	38.3	31.9	31.9	25.4	25.4	25.4	25.4	25.4	25.4
67.5°	44.6	38.3	31.9	25.4	25.4	25.4	19.2	19.2	19.2	19.2	19.2
70°	38.3	25.4	25.4	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
72.5°	25.4	25.4	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
75°	19.2	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	0.0	0.0	0.0	0.0	0.0
80°	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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





TEST NUMBER: P684794

CATALOG NUMBER: LX6C120D010 EX61209027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9	6668.9
2.5°	6771.0	6764.5	6771.0	6783.7	6758.1	6834.7	6796.4	6834.7
5°	6917.6	6923.9	6930.3	6949.5	6917.6	7013.3	6962.2	7019.5
7.5°	7108.9	7115.1	7121.6	7140.7	7121.6	7217.2	7159.9	7210.7
10°	7306.6	7319.3	7319.3	7351.1	7332.0	7421.1	7383.0	7446.8
12.5°	7491.3	7504.0	7517.0	7535.9	7523.2	7618.8	7586.9	7638.0
15°	7638.0	7663.4	7669.8	7695.2	7682.5	7784.6	7746.3	7797.3
17.5°	7708.2	7733.6	7733.6	7765.5	7752.8	7861.1	7810.0	7867.5
20°	7669.8	7689.0	7695.2	7727.4	7714.4	7823.0	7771.9	7841.9
22.5°	7548.8	7555.1	7561.5	7593.4	7586.9	7682.5	7638.0	7682.5
25°	7325.5	7344.7	7338.4	7363.8	7363.8	7440.3	7389.2	7427.6
27.5°	7006.8	7026.0	7026.0	7057.8	7032.2	7108.9	7057.8	7115.1
30°	6617.9	6637.0	6624.3	6649.7	6624.3	6700.8	6662.4	6681.6
32.5°	6152.5	6152.5	6158.7	6165.2	6152.5	6222.5	6184.4	6222.5
35°	5597.8	5610.5	5616.9	5623.4	5610.5	5661.5	5616.9	5642.3
37.5°	4973.0	5004.9	4998.4	5004.9	4985.7	5049.5	5011.1	5024.1
40°	4303.5	4303.5	4297.1	4310.0	4290.8	4341.9	4316.2	4328.9
42.5°	3525.7	3544.9	3519.5	3551.3	3500.3	3570.3	3544.9	3525.7
45°	2646.0	2620.4	2613.9	2620.4	2601.2	2607.7	2626.8	2613.9
47.5°	1804.4	1804.4	1791.5	1772.3	1797.9	1804.4	1778.8	1778.8
50°	1211.3	1211.3	1198.6	1192.2	1205.1	1198.6	1185.9	1205.1
52.5°	771.4	746.0	746.0	758.7	746.0	733.3	752.4	739.5
55°	420.8	408.1	408.1	420.8	408.1	408.1	401.6	414.3
57.5°	203.9	210.4	203.9	203.9	203.9	203.9	197.7	203.9
60°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
62.5°	38.3	38.3	31.9	31.9	31.9	31.9	31.9	31.9
65°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
67.5°	19.2	19.2	19.2	19.2	19.2	25.4	19.2	19.2
70°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
72.5°	19.2	19.2	25.4	25.4	25.4	25.4	25.4	25.4
75°	12.7	12.7	12.7	6.5	6.5	6.5	6.5	6.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)