

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: P684819

Luminaire Tested: **LX6C130D010 EX61309027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684819
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: LX6C130D010 EX61309027 6LCSWLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

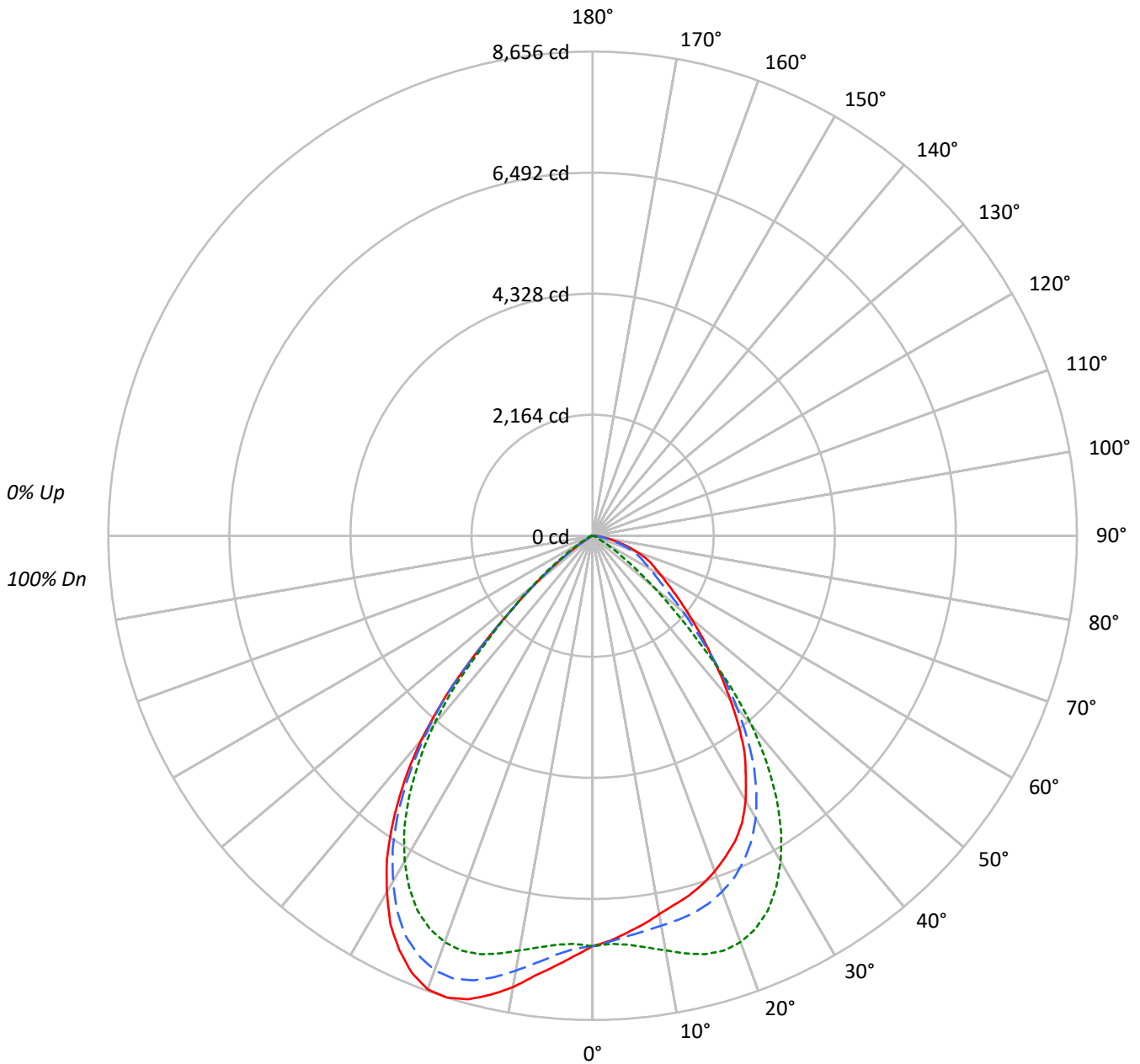
Lumens per Lamp: N/A
Luminaire Lumens: 13412.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	402238	402238	402238
5°	391805	403774	425004
10°	382280	418980	456087
15°	377811	439520	486893
20°	372392	450973	503344
25°	364485	447637	494315
30°	346357	425395	465350
35°	316874	383536	415458
40°	274092	316751	340846
45°	231140	207758	222961
50°	196232	120252	113079
55°	170297	57651	43573
60°	153814	26917	10756
65°	149212	15462	3619
70°	133789	12390	3382
75°	109950	8938	1504
80°	81892	4420	0
85°	70636	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.7	5.3
10°-20°	2159.9	16.1
20°-30°	3300.2	24.6
30°-40°	3451.7	25.7
40°-50°	2239.1	16.7
50°-60°	889.0	6.6
60°-70°	421.7	3.1
70°-80°	200.6	1.5
80°-90°	40.9	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°	6168.9	46.0
0°-40°	9620.6	71.7
0°-60°	12748.8	95.1
0°-90°	13412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13412.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7337	7337	7337	7337	7337	
5°	7120	7183	7337	7520	7723	672
15°	6657	6980	7744	8228	8579	1876
25°	6026	6404	7400	7898	8172	2759
35°	4735	5023	5731	6068	6208	2928
45°	2981	2953	2680	2841	2876	2320
55°	1782	1515	603	470	456	1614
65°	1150	954	119	28	28	1124
75°	519	421	42	14	7	560
85°	112	70	0	0	0	131
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°	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4
2.5°	7246.2	7260.2	7183.2	7162.1	7218.3	7239.1	7246.2	7225.1	7232.2	7260.2	7260.2
5°	7119.9	7133.9	7063.8	7042.7	7098.8	7113.1	7133.9	7127.0	7148.1	7190.1	7183.2
7.5°	7000.8	7021.9	6944.6	6916.7	6986.8	7021.9	7035.8	7035.8	7063.8	7119.9	7127.0
10°	6867.4	6895.6	6825.4	6811.2	6888.4	6923.5	6930.6	6944.6	6986.8	7063.8	7077.7
12.5°	6755.3	6783.2	6734.2	6713.1	6797.2	6832.3	6846.3	6874.5	6923.5	7021.9	7035.8
15°	6657.0	6678.0	6621.9	6607.9	6692.0	6734.2	6741.1	6783.2	6846.3	6958.6	6979.7
17.5°	6530.7	6544.6	6502.7	6488.7	6572.9	6614.8	6621.9	6670.9	6748.2	6860.5	6895.6
20°	6383.3	6397.5	6355.3	6341.4	6425.5	6474.5	6481.6	6523.8	6614.8	6734.2	6769.3
22.5°	6208.0	6236.2	6187.1	6172.9	6257.3	6299.2	6320.3	6355.3	6446.6	6565.7	6614.8
25°	6025.8	6025.8	5990.7	5983.6	6060.8	6109.9	6102.8	6151.8	6243.0	6362.5	6404.4
27.5°	5787.2	5780.0	5745.0	5738.1	5822.2	5864.4	5850.2	5899.5	5983.6	6102.8	6144.9
30°	5471.6	5485.5	5436.5	5422.3	5492.7	5562.8	5555.7	5604.7	5688.8	5801.1	5829.4
32.5°	5092.7	5106.7	5099.8	5078.7	5141.7	5176.8	5197.9	5233.0	5303.1	5422.3	5450.5
35°	4734.9	4713.8	4685.9	4685.9	4748.9	4805.1	4784.0	4826.2	4896.3	5015.5	5022.6
37.5°	4293.1	4285.9	4272.0	4258.0	4328.1	4342.1	4349.2	4377.2	4440.4	4538.5	4524.5
40°	3830.1	3836.9	3830.1	3801.9	3844.1	3900.2	3893.1	3907.3	3963.2	4033.4	4012.5
42.5°	3395.1	3395.1	3395.1	3367.1	3416.1	3444.4	3458.3	3451.2	3465.2	3528.5	3500.2
45°	2981.4	2988.2	2981.4	2974.3	2981.4	2995.4	2981.4	2974.3	2974.3	2995.4	2953.2
47.5°	2623.6	2623.6	2602.5	2581.4	2602.5	2609.4	2588.5	2567.4	2560.3	2553.5	2483.3
50°	2300.9	2293.8	2286.9	2251.9	2272.7	2279.8	2251.9	2237.6	2209.7	2174.6	2090.5
52.5°	2020.4	2013.2	2006.1	1971.1	1985.3	1992.2	1964.2	1936.0	1900.9	1873.0	1767.8
55°	1781.8	1774.6	1774.6	1753.8	1739.6	1753.8	1725.6	1704.5	1655.5	1620.4	1515.2
57.5°	1578.2	1578.2	1564.2	1543.2	1550.3	1550.3	1522.3	1494.1	1451.9	1410.0	1325.9
60°	1402.9	1402.9	1402.9	1381.8	1381.8	1381.8	1367.8	1339.9	1304.8	1262.6	1178.5
62.5°	1262.6	1262.6	1255.5	1234.7	1241.5	1241.5	1227.6	1199.6	1164.6	1136.3	1052.2
65°	1150.3	1150.3	1150.3	1129.5	1129.5	1136.3	1122.4	1094.4	1066.2	1031.1	953.9
67.5°	1010.1	1003.2	1003.2	989.0	996.1	1003.2	989.0	968.1	933.1	912.0	841.8
70°	834.7	841.8	848.7	827.9	834.7	834.7	827.9	806.8	785.7	764.6	701.6
72.5°	680.5	680.5	673.4	666.5	666.5	673.4	659.4	638.3	624.3	610.4	561.1
75°	519.1	512.0	519.1	505.2	505.2	505.2	490.9	484.1	476.9	455.9	420.8
77.5°	378.9	371.7	371.7	357.8	364.9	364.9	357.8	343.8	329.6	322.7	294.5
80°	259.4	259.4	259.4	252.6	252.6	245.5	245.5	238.6	224.4	217.5	203.5
82.5°	175.3	175.3	175.3	168.5	168.5	168.5	161.4	154.2	147.4	140.3	126.3
85°	112.3	112.3	112.3	105.2	105.2	105.2	98.1	98.1	91.2	84.1	70.1
87.5°	63.0	63.0	63.0	56.2	56.2	56.2	56.2	56.2	49.0	42.2	35.1
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°	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4
2.5°	7309.2	7211.2	7274.2	7274.2	7253.3	7309.2	7344.6	7372.5	7365.4	7302.4	7295.3
5°	7253.3	7169.0	7239.1	7246.2	7225.1	7302.4	7351.4	7386.5	7393.6	7337.4	7344.6
7.5°	7211.2	7141.0	7232.2	7260.2	7253.3	7323.5	7379.6	7435.5	7463.7	7421.5	7428.7
10°	7190.1	7133.9	7232.2	7274.2	7281.3	7358.5	7442.6	7519.9	7555.0	7526.7	7547.8
12.5°	7162.1	7127.0	7239.1	7302.4	7330.3	7407.6	7512.8	7604.0	7660.2	7646.2	7688.1
15°	7133.9	7106.0	7239.1	7330.3	7365.4	7435.5	7555.0	7688.1	7751.4	7744.3	7800.4
17.5°	7063.8	7056.9	7197.2	7295.3	7344.6	7428.7	7540.7	7702.1	7765.4	7779.3	7849.5
20°	6951.7	6951.7	7106.0	7211.2	7267.3	7344.6	7484.8	7639.1	7716.3	7730.3	7807.5
22.5°	6797.2	6811.2	6958.6	7063.8	7148.1	7204.0	7351.4	7512.8	7582.9	7604.0	7688.1
25°	6593.9	6607.9	6748.2	6853.4	6944.6	7007.6	7148.1	7295.3	7379.6	7400.5	7463.7
27.5°	6327.4	6355.3	6488.7	6593.9	6670.9	6713.1	6860.5	7014.7	7077.7	7098.8	7162.1
30°	6018.7	6025.8	6158.9	6250.1	6327.4	6362.5	6488.7	6650.1	6699.1	6720.2	6811.2
32.5°	5639.8	5632.9	5759.2	5843.3	5906.3	5948.5	6081.7	6187.1	6236.2	6271.2	6320.3
35°	5183.9	5176.8	5268.0	5366.4	5415.4	5429.4	5562.8	5674.9	5703.1	5731.0	5794.3
37.5°	4671.9	4671.9	4748.9	4798.2	4854.1	4875.2	4938.5	5064.8	5113.8	5106.7	5155.7
40°	4131.7	4103.7	4159.6	4208.9	4222.9	4229.8	4293.1	4391.1	4426.2	4426.2	4461.3
42.5°	3563.5	3521.3	3528.5	3556.4	3570.4	3521.3	3563.5	3626.5	3605.4	3633.7	3640.8
45°	2960.3	2897.0	2869.1	2805.8	2820.0	2770.7	2742.8	2756.7	2749.9	2679.8	2693.7
47.5°	2469.1	2357.1	2307.7	2216.8	2195.7	2139.5	2104.5	2041.2	1985.3	1985.3	1950.0
50°	2055.4	1943.1	1844.8	1739.6	1704.5	1655.5	1578.2	1494.1	1451.9	1410.0	1374.9
52.5°	1725.6	1606.4	1487.0	1374.9	1325.9	1262.6	1157.4	1073.3	996.1	953.9	912.0
55°	1459.1	1325.9	1199.6	1080.2	1017.2	953.9	848.7	750.6	659.4	603.2	568.2
57.5°	1255.5	1129.5	996.1	869.8	813.6	743.5	631.4	526.0	441.9	378.9	343.8
60°	1108.4	982.1	862.9	729.5	673.4	603.2	484.1	385.7	301.6	245.5	203.5
62.5°	982.1	869.8	743.5	624.3	568.2	498.0	385.7	287.6	210.4	154.2	119.2
65°	890.9	778.6	673.4	554.2	505.2	435.0	329.6	238.6	168.5	119.2	84.1
67.5°	785.7	687.3	582.1	484.1	435.0	378.9	280.5	203.5	140.3	98.1	70.1
70°	659.4	582.1	490.9	400.0	364.9	315.6	231.5	168.5	112.3	77.3	56.2
72.5°	526.0	463.0	392.8	322.7	294.5	245.5	189.3	133.4	84.1	56.2	42.2
75°	400.0	350.7	294.5	245.5	217.5	189.3	140.3	98.1	63.0	42.2	27.9
77.5°	273.7	252.6	210.4	168.5	154.2	133.4	91.2	63.0	42.2	27.9	14.0
80°	189.3	168.5	140.3	112.3	98.1	84.1	56.2	42.2	21.1	14.0	7.1
82.5°	119.2	98.1	84.1	70.1	63.0	49.0	35.1	21.1	14.0	7.1	7.1
85°	63.0	56.2	49.0	35.1	35.1	27.9	21.1	14.0	7.1	0.0	0.0
87.5°	35.1	27.9	21.1	14.0	14.0	7.1	7.1	7.1	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°	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4
2.5°	7379.6	7379.6	7372.5	7456.6	7358.5	7456.6	7407.6	7456.6	7386.5	7379.6	7386.5
5°	7435.5	7456.6	7463.7	7540.7	7449.8	7568.9	7526.7	7568.9	7519.9	7533.9	7555.0
7.5°	7547.8	7582.9	7576.0	7674.1	7582.9	7716.3	7688.1	7751.4	7702.1	7716.3	7744.3
10°	7674.1	7716.3	7723.2	7821.5	7737.1	7898.5	7863.4	7933.6	7891.6	7912.7	7947.8
12.5°	7821.5	7870.5	7877.7	7989.7	7898.5	8067.0	8045.9	8116.0	8080.9	8102.0	8144.2
15°	7933.6	8003.7	8017.9	8130.0	8031.9	8207.2	8193.3	8284.5	8228.3	8263.4	8298.5
17.5°	7989.7	8053.0	8080.9	8186.1	8102.0	8277.4	8263.4	8340.6	8298.5	8333.5	8375.7
20°	7954.7	8031.9	8053.0	8158.2	8074.1	8249.4	8228.3	8305.6	8263.4	8291.3	8333.5
22.5°	7828.4	7905.6	7933.6	8031.9	7954.7	8116.0	8109.2	8179.3	8123.1	8158.2	8193.3
25°	7604.0	7688.1	7702.1	7793.3	7709.2	7877.7	7863.4	7940.7	7898.5	7919.6	7968.6
27.5°	7281.3	7379.6	7400.5	7477.7	7414.7	7555.0	7555.0	7618.0	7568.9	7568.9	7618.0
30°	6895.6	6993.6	7007.6	7070.9	7014.7	7141.0	7148.1	7211.2	7133.9	7176.1	7183.2
32.5°	6425.5	6488.7	6530.7	6586.8	6502.7	6664.1	6643.0	6692.0	6650.1	6650.1	6685.2
35°	5857.3	5934.5	5955.6	6025.8	5955.6	6081.7	6081.7	6109.9	6067.7	6067.7	6123.9
37.5°	5240.1	5296.2	5303.1	5373.2	5317.1	5422.3	5415.4	5436.5	5394.3	5422.3	5422.3
40°	4517.4	4559.6	4573.6	4608.6	4601.8	4678.8	4671.9	4685.9	4664.8	4671.9	4685.9
42.5°	3675.8	3731.7	3759.9	3787.9	3746.0	3851.2	3830.1	3851.2	3844.1	3851.2	3872.3
45°	2707.7	2749.9	2770.7	2777.8	2763.9	2826.9	2875.9	2834.0	2840.9	2826.9	2855.1
47.5°	1957.1	1964.2	1950.0	1992.2	1957.1	1985.3	1999.3	2006.1	1964.2	1957.1	1985.3
50°	1339.9	1374.9	1325.9	1346.7	1339.9	1367.8	1353.9	1361.0	1318.8	1339.9	1325.9
52.5°	890.9	883.8	869.8	876.9	862.9	862.9	862.9	876.9	848.7	834.7	820.7
55°	540.2	526.0	498.0	490.9	490.9	498.0	484.1	470.1	470.1	463.0	463.0
57.5°	315.6	294.5	280.5	273.7	259.4	252.6	245.5	245.5	231.5	231.5	231.5
60°	175.3	154.2	140.3	126.3	126.3	119.2	112.3	105.2	105.2	105.2	98.1
62.5°	91.2	77.3	63.0	56.2	56.2	49.0	42.2	42.2	42.2	42.2	35.1
65°	63.0	49.0	42.2	35.1	35.1	27.9	27.9	27.9	27.9	27.9	27.9
67.5°	49.0	42.2	35.1	27.9	27.9	27.9	21.1	21.1	21.1	21.1	21.1
70°	42.2	27.9	27.9	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
72.5°	27.9	27.9	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
75°	21.1	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	0.0	0.0	0.0	0.0	0.0
80°	7.1	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: P684819

CATALOG NUMBER: LX6C130D010 EX61309027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4	7337.4
2.5°	7449.8	7442.6	7449.8	7463.7	7435.5	7519.9	7477.7	7519.9
5°	7611.1	7618.0	7625.1	7646.2	7611.1	7716.3	7660.2	7723.2
7.5°	7821.5	7828.4	7835.5	7856.6	7835.5	7940.7	7877.7	7933.6
10°	8039.0	8053.0	8053.0	8088.1	8067.0	8165.0	8123.1	8193.3
12.5°	8242.3	8256.3	8270.5	8291.3	8277.4	8382.6	8347.5	8403.7
15°	8403.7	8431.6	8438.7	8466.7	8452.7	8565.0	8522.8	8579.0
17.5°	8480.9	8508.9	8508.9	8543.9	8529.9	8649.1	8593.0	8656.2
20°	8438.7	8459.8	8466.7	8502.0	8487.8	8607.2	8551.0	8628.0
22.5°	8305.6	8312.4	8319.5	8354.6	8347.5	8452.7	8403.7	8452.7
25°	8059.9	8080.9	8074.1	8102.0	8102.0	8186.1	8130.0	8172.2
27.5°	7709.2	7730.3	7730.3	7765.4	7737.1	7821.5	7765.4	7828.4
30°	7281.3	7302.4	7288.4	7316.4	7288.4	7372.5	7330.3	7351.4
32.5°	6769.3	6769.3	6776.1	6783.2	6769.3	6846.3	6804.3	6846.3
35°	6158.9	6172.9	6180.0	6187.1	6172.9	6229.0	6180.0	6208.0
37.5°	5471.6	5506.6	5499.5	5506.6	5485.5	5555.7	5513.5	5527.7
40°	4734.9	4734.9	4727.8	4742.1	4721.0	4777.1	4748.9	4762.9
42.5°	3879.1	3900.2	3872.3	3907.3	3851.2	3928.2	3900.2	3879.1
45°	2911.2	2883.0	2875.9	2883.0	2861.9	2869.1	2890.2	2875.9
47.5°	1985.3	1985.3	1971.1	1950.0	1978.2	1985.3	1957.1	1957.1
50°	1332.8	1332.8	1318.8	1311.7	1325.9	1318.8	1304.8	1325.9
52.5°	848.7	820.7	820.7	834.7	820.7	806.8	827.9	813.6
55°	463.0	449.0	449.0	463.0	449.0	449.0	441.9	455.9
57.5°	224.4	231.5	224.4	224.4	224.4	224.4	217.5	224.4
60°	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
62.5°	42.2	42.2	35.1	35.1	35.1	35.1	35.1	35.1
65°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
67.5°	21.1	21.1	21.1	21.1	21.1	27.9	21.1	21.1
70°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
72.5°	21.1	21.1	27.9	27.9	27.9	27.9	27.9	27.9
75°	14.0	14.0	14.0	7.1	7.1	7.1	7.1	7.1
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)