

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: P#

Luminaire Tested: **LX6C120D010 EX6C1209050 6LBSQLWWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-9)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C120D010 EX6C1209050 6LBSQLWWLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

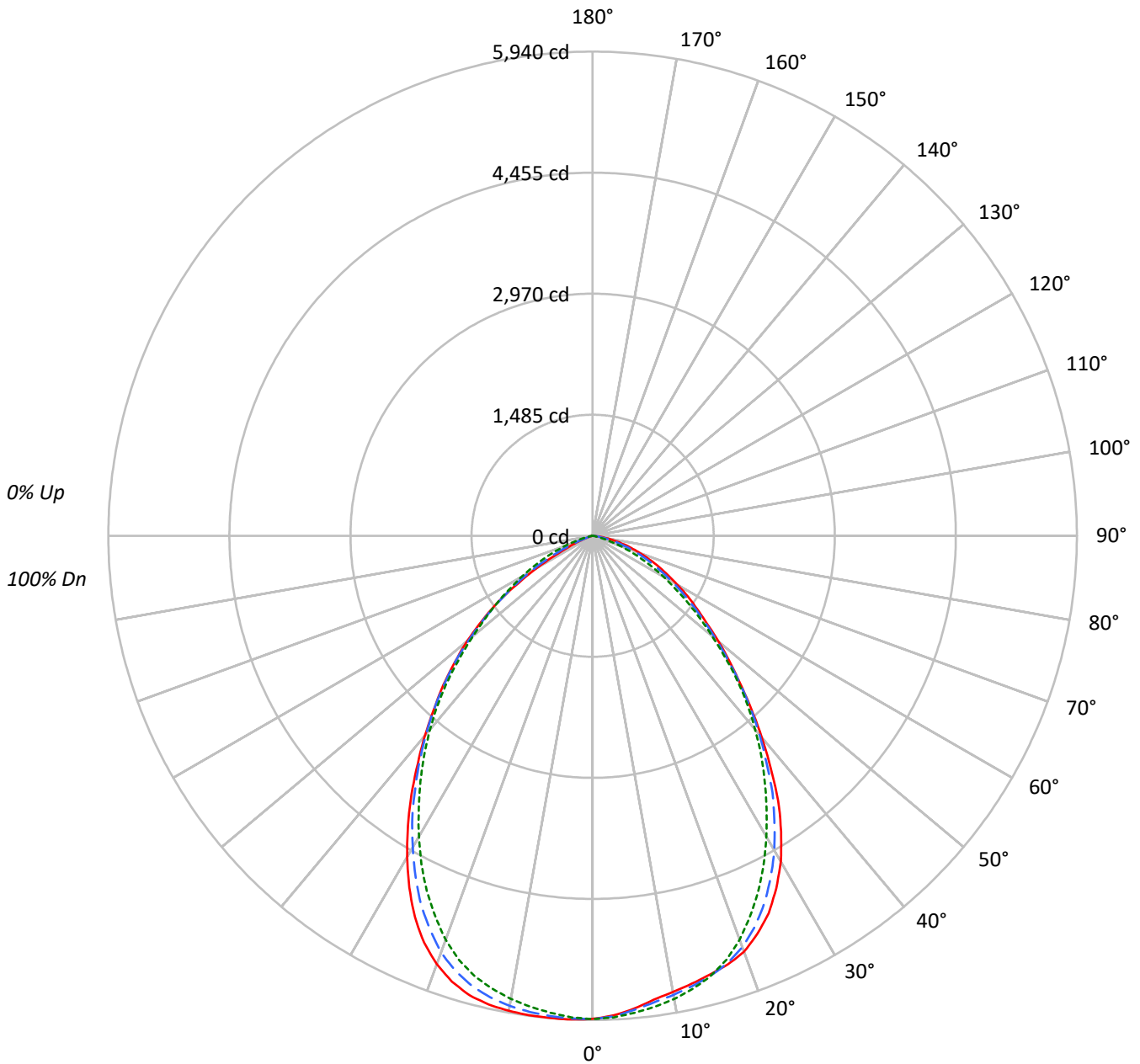
Lumens per Lamp: N/A
Luminaire Lumens: 10902.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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: P#

CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLWWLI

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
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78			78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69			69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61			61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54			54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49			49
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44			44
8	67	55	48	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	255225	255225	255225
5°	251718	253918	256710
10°	248377	252229	258739
15°	248258	249305	260128
20°	248815	241640	256173
25°	242726	228488	245144
30°	229481	211856	226070
35°	208642	193510	203601
40°	181391	174236	179739
45°	155495	152748	157638
50°	134850	128024	134454
55°	117012	106428	105842
60°	103032	86172	66952
65°	90376	65436	32122
70°	77659	43393	11833
75°	63198	18249	3261
80°	42721	4364	1463
85°	17389	988	988



TEST NUMBER: P#

CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.2	5.1
10°-20°	1590.3	14.6
20°-30°	2279.0	20.9
30°-40°	2375.0	21.8
40°-50°	1967.6	18.0
50°-60°	1304.3	12.0
60°-70°	631.6	5.8
70°-80°	178.8	1.6
80°-90°	17.4	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°	4427.4	40.6
0°-40°	6802.4	62.4
0°-60°	10074.3	92.4
0°-90°	10902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10902.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5928	5928	5928	5928	5928	
5°	5824	5840	5875	5916	5940	551
15°	5570	5589	5593	5718	5836	1575
25°	5109	4980	4810	4986	5160	2337
35°	3970	3844	3682	3795	3874	2461
45°	2554	2546	2509	2571	2589	1986
55°	1559	1508	1418	1392	1410	1408
65°	887	801	642	441	315	884
75°	380	290	110	22	20	407
85°	35	16	2	2	2	58
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8
2.5°	5890.6	5892.6	5896.5	5892.6	5894.6	5896.5	5896.5	5898.5	5898.5	5900.4	5902.4
5°	5824.1	5829.9	5829.9	5829.9	5829.9	5831.9	5833.8	5833.8	5831.9	5831.9	5839.7
7.5°	5739.8	5745.7	5743.8	5745.7	5747.7	5753.6	5751.6	5755.5	5759.4	5765.3	5773.1
10°	5681.1	5683.1	5681.1	5687.0	5690.9	5694.8	5694.8	5698.7	5702.6	5708.5	5718.3
12.5°	5628.2	5630.2	5632.1	5636.1	5640.0	5638.0	5641.9	5645.8	5647.8	5651.7	5657.6
15°	5569.5	5579.3	5577.3	5579.3	5581.2	5583.2	5585.1	5587.1	5585.1	5585.1	5589.1
17.5°	5514.6	5516.6	5518.6	5518.6	5518.6	5518.6	5514.6	5514.6	5508.8	5502.9	5499.0
20°	5430.4	5428.5	5424.6	5424.6	5416.7	5418.7	5410.9	5406.9	5397.1	5383.4	5369.7
22.5°	5283.6	5293.4	5289.4	5275.7	5267.9	5267.9	5260.1	5242.4	5226.8	5211.1	5193.5
25°	5109.3	5105.4	5099.5	5091.6	5079.9	5072.1	5060.3	5048.6	5023.1	4995.7	4980.0
27.5°	4876.2	4882.1	4868.4	4856.6	4850.8	4839.0	4827.3	4811.6	4780.3	4756.8	4729.4
30°	4615.8	4611.9	4609.9	4594.2	4578.6	4582.5	4559.0	4541.4	4517.9	4478.7	4457.1
32.5°	4302.4	4308.3	4296.6	4294.6	4265.2	4261.3	4261.3	4233.9	4214.3	4177.1	4147.7
35°	3969.5	3965.6	3961.7	3948.0	3946.0	3934.3	3924.5	3904.9	3879.4	3867.7	3844.2
37.5°	3585.7	3587.7	3589.6	3589.6	3581.8	3573.9	3566.1	3566.1	3530.9	3525.0	3497.6
40°	3227.3	3233.2	3231.2	3217.5	3219.5	3221.4	3219.5	3217.5	3196.0	3188.2	3184.2
42.5°	2878.7	2888.5	2878.7	2876.8	2878.7	2878.7	2874.8	2880.7	2870.9	2878.7	2861.1
45°	2553.7	2561.5	2555.6	2553.7	2549.7	2559.5	2547.8	2557.6	2551.7	2541.9	2545.8
47.5°	2273.6	2265.8	2273.6	2269.7	2263.8	2256.0	2267.7	2261.9	2248.2	2246.2	2250.1
50°	2013.2	2009.2	2013.2	2011.2	2001.4	2001.4	1999.4	1995.5	1991.6	1979.9	1972.0
52.5°	1764.5	1778.2	1768.4	1778.2	1764.5	1758.6	1760.5	1754.7	1746.8	1742.9	1727.2
55°	1558.8	1560.8	1560.8	1560.8	1553.0	1549.0	1545.1	1541.2	1541.2	1523.6	1507.9
57.5°	1380.6	1376.7	1374.7	1368.9	1365.0	1361.0	1357.1	1345.4	1333.6	1318.0	1306.2
60°	1196.5	1200.5	1200.5	1192.6	1186.7	1180.9	1178.9	1171.1	1157.4	1141.7	1124.1
62.5°	1037.9	1041.8	1032.0	1032.0	1020.3	1018.3	1018.3	1006.6	990.9	973.3	953.7
65°	887.1	885.2	889.1	875.4	877.3	865.6	861.7	855.8	840.1	818.6	801.0
67.5°	744.2	748.1	742.2	738.3	730.5	726.5	722.6	705.0	697.2	677.6	658.0
70°	616.9	613.0	609.0	609.0	601.2	595.3	593.4	573.8	564.0	548.3	526.8
72.5°	497.4	493.5	489.6	483.7	477.8	475.9	464.1	452.4	440.6	421.0	405.4
75°	379.9	378.0	374.0	370.1	360.3	356.4	354.5	340.7	319.2	303.5	289.8
77.5°	274.2	276.1	268.3	260.5	254.6	248.7	244.8	233.0	219.3	201.7	188.0
80°	172.3	174.3	172.3	166.5	158.6	156.7	150.8	143.0	131.2	119.5	109.7
82.5°	92.0	92.0	90.1	88.1	82.2	82.2	78.3	72.5	66.6	60.7	52.9
85°	35.2	35.2	33.3	31.3	29.4	29.4	27.4	25.5	21.5	19.6	15.7
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P#

CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8
2.5°	5902.4	5904.3	5906.3	5908.3	5908.3	5908.3	5910.2	5912.2	5912.2	5914.1	5916.1
5°	5843.6	5845.6	5851.5	5853.4	5857.3	5855.4	5861.3	5867.1	5871.1	5875.0	5880.8
7.5°	5777.1	5782.9	5790.8	5796.6	5798.6	5800.6	5806.4	5814.3	5820.1	5828.0	5833.8
10°	5722.2	5728.1	5735.9	5743.8	5743.8	5747.7	5751.6	5757.5	5763.3	5769.2	5777.1
12.5°	5661.5	5669.3	5671.3	5675.2	5675.2	5677.2	5681.1	5683.1	5688.9	5690.9	5702.6
15°	5589.1	5589.1	5589.1	5589.1	5589.1	5587.1	5583.2	5587.1	5587.1	5593.0	5598.8
17.5°	5489.2	5489.2	5477.4	5471.6	5473.5	5463.7	5461.8	5453.9	5453.9	5453.9	5459.8
20°	5358.0	5340.4	5326.6	5309.0	5301.2	5297.3	5293.4	5275.7	5273.8	5273.8	5273.8
22.5°	5171.9	5152.4	5132.8	5119.1	5097.5	5089.7	5081.9	5070.1	5056.4	5048.6	5066.2
25°	4944.8	4921.3	4897.8	4870.4	4864.5	4854.7	4835.1	4823.4	4817.5	4809.6	4813.6
27.5°	4703.9	4670.6	4645.1	4617.7	4607.9	4596.2	4578.6	4560.9	4541.4	4545.3	4545.3
30°	4427.8	4388.6	4361.2	4327.9	4325.9	4314.2	4298.5	4277.0	4261.3	4261.3	4271.1
32.5°	4128.1	4100.7	4075.3	4038.1	4032.2	4024.4	4012.6	3993.0	3981.3	3969.5	3977.4
35°	3824.6	3781.5	3763.9	3740.4	3742.4	3720.8	3703.2	3691.4	3693.4	3681.6	3687.5
37.5°	3497.6	3472.1	3446.7	3436.9	3427.1	3415.3	3407.5	3399.7	3395.7	3395.7	3391.8
40°	3166.6	3152.9	3141.2	3137.2	3119.6	3123.5	3121.6	3115.7	3103.9	3100.0	3111.8
42.5°	2855.2	2841.5	2835.7	2825.9	2823.9	2818.0	2818.0	2812.2	2810.2	2812.2	2810.2
45°	2534.1	2532.1	2518.4	2518.4	2526.2	2520.4	2504.7	2514.5	2514.5	2508.6	2520.4
47.5°	2238.4	2240.3	2232.5	2216.8	2216.8	2207.0	2195.3	2205.1	2210.9	2201.2	2207.0
50°	1970.1	1958.3	1942.7	1930.9	1936.8	1932.9	1923.1	1915.2	1909.4	1911.3	1919.2
52.5°	1715.5	1709.6	1692.0	1678.3	1674.4	1676.3	1664.6	1652.8	1654.8	1652.8	1648.9
55°	1486.4	1486.4	1462.9	1457.0	1441.3	1441.3	1425.7	1423.7	1417.8	1417.8	1408.0
57.5°	1288.6	1271.0	1257.2	1243.5	1237.7	1229.8	1224.0	1210.2	1204.4	1192.6	1190.7
60°	1106.5	1084.9	1075.1	1059.5	1047.7	1039.9	1030.1	1018.3	1010.5	1000.7	989.0
62.5°	943.9	920.4	900.8	885.2	875.4	873.4	857.7	844.0	828.4	816.6	797.0
65°	781.4	767.7	746.1	724.6	720.7	710.9	695.2	679.5	660.0	642.3	630.6
67.5°	638.4	620.8	601.2	589.5	575.7	567.9	550.3	526.8	505.2	487.6	466.1
70°	511.1	485.7	468.0	448.5	444.5	426.9	411.2	387.7	368.2	344.7	313.3
72.5°	383.8	358.4	344.7	325.1	313.3	303.5	282.0	260.5	229.1	211.5	184.1
75°	270.2	248.7	229.1	209.5	201.7	188.0	170.4	146.9	127.3	109.7	90.1
77.5°	168.4	154.7	137.1	121.4	113.6	105.7	92.0	74.4	60.7	47.0	35.2
80°	96.0	84.2	72.5	60.7	56.8	52.9	41.1	31.3	25.5	17.6	11.7
82.5°	45.0	37.2	31.3	25.5	23.5	19.6	13.7	9.8	5.9	3.9	2.0
85°	13.7	9.8	7.8	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0
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: P#

CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8
2.5°	5916.1	5918.1	5920.0	5920.0	5920.0	5922.0	5922.0	5925.9	5927.8	5929.8	5929.8
5°	5884.8	5890.6	5894.6	5896.5	5898.5	5904.3	5906.3	5912.2	5916.1	5920.0	5923.9
7.5°	5841.7	5847.6	5855.4	5859.3	5863.2	5871.1	5876.9	5886.7	5892.6	5900.4	5908.3
10°	5786.8	5794.7	5806.4	5810.3	5814.3	5824.1	5835.8	5847.6	5857.3	5869.1	5878.9
12.5°	5706.6	5718.3	5732.0	5735.9	5741.8	5755.5	5769.2	5786.8	5800.6	5816.2	5831.9
15°	5606.7	5622.3	5632.1	5636.1	5643.9	5663.5	5677.2	5696.8	5718.3	5741.8	5759.4
17.5°	5467.6	5475.5	5493.1	5500.9	5510.7	5530.3	5551.8	5575.3	5594.9	5620.4	5647.8
20°	5285.5	5297.3	5318.8	5326.6	5338.4	5356.0	5387.4	5406.9	5438.3	5469.6	5489.2
22.5°	5058.4	5079.9	5101.4	5111.2	5119.1	5140.6	5162.1	5195.4	5220.9	5264.0	5289.4
25°	4823.4	4829.2	4846.9	4864.5	4868.4	4895.8	4921.3	4960.4	4985.9	5013.3	5048.6
27.5°	4553.1	4560.9	4588.4	4592.3	4594.2	4623.6	4653.0	4684.3	4705.9	4737.2	4754.8
30°	4271.1	4284.8	4296.6	4304.4	4318.1	4331.8	4359.2	4398.4	4414.1	4441.5	4465.0
32.5°	3983.2	3983.2	4010.6	4012.6	4020.4	4051.8	4067.4	4090.9	4118.4	4139.9	4137.9
35°	3697.3	3705.1	3714.9	3728.6	3734.5	3754.1	3760.0	3777.6	3795.2	3810.9	3830.5
37.5°	3401.6	3401.6	3423.2	3432.9	3438.8	3448.6	3458.4	3476.0	3485.8	3491.7	3503.4
40°	3119.6	3127.4	3131.4	3135.3	3135.3	3149.0	3156.8	3170.5	3176.4	3192.1	3184.2
42.5°	2833.7	2829.8	2831.7	2841.5	2843.5	2851.3	2857.2	2865.0	2872.9	2868.9	2882.7
45°	2530.2	2532.1	2536.0	2536.0	2541.9	2551.7	2561.5	2565.4	2571.3	2581.1	2583.0
47.5°	2212.9	2222.7	2216.8	2232.5	2236.4	2238.4	2261.9	2263.8	2283.4	2287.3	2287.3
50°	1917.2	1917.2	1928.9	1934.8	1938.7	1944.6	1952.4	1960.3	1966.2	1979.9	1983.8
52.5°	1650.9	1654.8	1654.8	1648.9	1654.8	1654.8	1674.4	1676.3	1674.4	1678.3	1684.2
55°	1412.0	1413.9	1402.2	1410.0	1408.0	1402.2	1406.1	1394.3	1392.4	1398.2	1394.3
57.5°	1182.8	1175.0	1173.0	1163.2	1163.2	1153.5	1143.7	1143.7	1135.8	1122.1	1120.2
60°	977.2	965.5	957.6	951.7	936.1	926.3	912.6	900.8	885.2	867.5	857.7
62.5°	783.3	769.6	754.0	746.1	734.4	710.9	693.2	675.6	650.2	634.5	618.8
65°	611.0	589.5	564.0	552.2	540.5	519.0	495.5	466.1	440.6	419.1	391.7
67.5°	442.6	419.1	393.6	376.0	364.2	338.8	311.4	285.9	256.5	233.0	219.3
70°	289.8	260.5	237.0	223.2	211.5	186.0	160.6	139.0	125.3	119.5	117.5
72.5°	164.5	135.1	117.5	103.8	94.0	76.4	62.7	54.8	50.9	49.0	45.0
75°	70.5	52.9	41.1	33.3	29.4	23.5	21.5	21.5	21.5	19.6	19.6
77.5°	25.5	17.6	13.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
80°	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P#

CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8	5927.8
2.5°	5931.8	5935.7	5935.7	5937.6	5939.6	5939.6	5939.6	5939.6
5°	5927.8	5931.8	5933.7	5935.7	5937.6	5939.6	5939.6	5939.6
7.5°	5912.2	5920.0	5922.0	5925.9	5929.8	5931.8	5931.8	5933.7
10°	5888.7	5896.5	5902.4	5906.3	5910.2	5914.1	5918.1	5918.1
12.5°	5845.6	5857.3	5865.2	5869.1	5878.9	5882.8	5886.7	5890.6
15°	5775.1	5790.8	5800.6	5808.4	5816.2	5828.0	5829.9	5835.8
17.5°	5669.3	5690.9	5694.8	5706.6	5716.3	5735.9	5734.0	5735.9
20°	5516.6	5540.1	5547.9	5559.7	5575.3	5589.1	5600.8	5591.0
22.5°	5312.9	5340.4	5352.1	5363.9	5373.6	5385.4	5401.1	5403.0
25°	5072.1	5095.6	5105.4	5113.2	5132.8	5142.6	5158.2	5160.2
27.5°	4795.9	4809.6	4823.4	4827.3	4848.8	4854.7	4868.4	4868.4
30°	4482.6	4498.3	4513.9	4519.8	4525.7	4531.6	4541.4	4547.2
32.5°	4161.4	4177.1	4183.0	4192.8	4194.7	4204.5	4200.6	4216.3
35°	3840.3	3844.2	3850.1	3848.1	3861.8	3859.9	3875.5	3873.6
37.5°	3517.2	3513.2	3523.0	3532.8	3528.9	3525.0	3530.9	3521.1
40°	3194.0	3196.0	3197.9	3207.7	3197.9	3203.8	3199.9	3197.9
42.5°	2892.4	2892.4	2880.7	2892.4	2884.6	2880.7	2888.5	2876.8
45°	2586.9	2585.0	2586.9	2588.9	2588.9	2588.9	2581.1	2588.9
47.5°	2297.1	2299.1	2291.2	2304.9	2301.0	2293.2	2293.2	2287.3
50°	1989.7	2001.4	2015.1	2003.4	2013.2	2007.3	2001.4	2007.3
52.5°	1697.9	1705.7	1695.9	1697.9	1719.4	1719.4	1707.7	1705.7
55°	1386.5	1386.5	1390.4	1392.4	1394.3	1419.8	1406.1	1410.0
57.5°	1108.4	1108.4	1102.5	1114.3	1106.5	1096.7	1106.5	1081.0
60°	842.1	840.1	834.2	826.4	806.8	801.0	779.4	777.5
62.5°	599.2	577.7	569.9	554.2	532.7	526.8	505.2	503.3
65°	372.1	346.6	338.8	331.0	321.2	319.2	311.4	315.3
67.5°	211.5	207.6	205.6	199.7	195.8	191.9	191.9	190.0
70°	111.6	103.8	101.8	99.9	99.9	92.0	90.1	94.0
72.5°	43.1	39.2	39.2	39.2	37.2	37.2	37.2	37.2
75°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
77.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0
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



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













(END OF REPORT)