

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: **LX6C130D010 EX6C1309035 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: LX6C130D010 EX6C1309035 6LBSQLWWLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

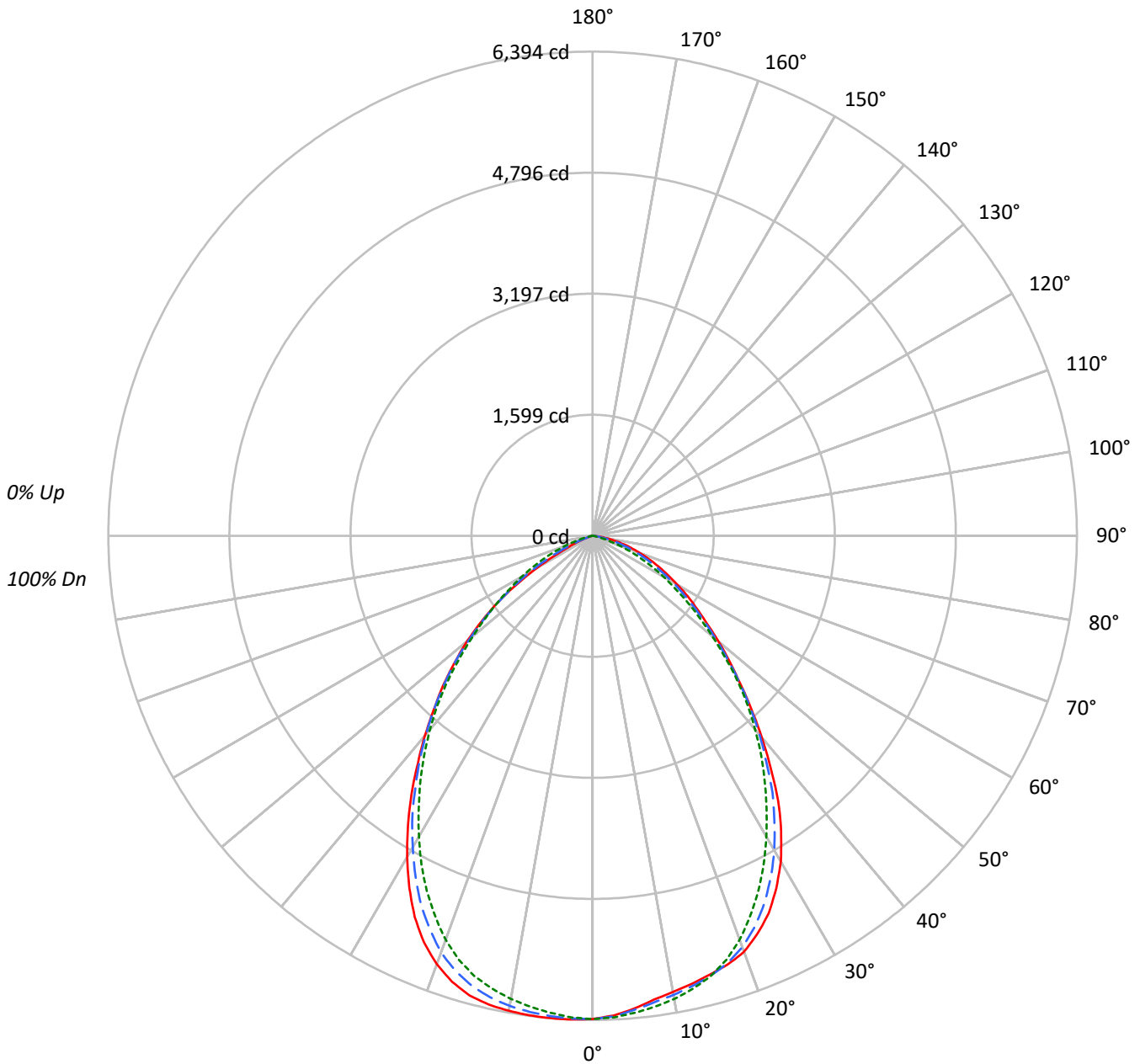
Lumens per Lamp: N/A
Luminaire Lumens: 11736.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	274751	274751	274751
5°	270973	273341	276349
10°	267378	271527	278531
15°	267246	268374	280026
20°	267853	260123	275770
25°	261291	245971	263895
30°	247036	228064	243367
35°	224605	208316	219175
40°	195268	187568	193492
45°	167386	164433	169700
50°	145165	137817	144736
55°	125967	114572	113942
60°	110920	92768	72067
65°	97294	70449	34578
70°	83601	46704	12740
75°	68039	19646	3510
80°	45994	4711	1562
85°	18723	1037	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.9	5.1
10°-20°	1712.0	14.6
20°-30°	2453.3	20.9
30°-40°	2556.7	21.8
40°-50°	2118.1	18.0
50°-60°	1404.1	12.0
60°-70°	679.9	5.8
70°-80°	192.4	1.6
80°-90°	18.7	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°	4766.1	40.6
0°-40°	7322.8	62.4
0°-60°	10845.0	92.4
0°-90°	11736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11736.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6381	6381	6381	6381	6381	
5°	6270	6286	6324	6369	6394	593
15°	5996	6017	6021	6156	6282	1695
25°	5500	5361	5178	5367	5555	2516
35°	4273	4138	3963	4086	4170	2649
45°	2749	2741	2700	2768	2787	2138
55°	1678	1623	1526	1499	1518	1516
65°	955	862	692	474	339	951
75°	409	312	118	23	21	438
85°	38	17	2	2	2	63
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°	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3
2.5°	6341.3	6343.4	6347.6	6343.4	6345.5	6347.6	6347.6	6349.7	6349.7	6351.8	6353.9
5°	6269.6	6275.9	6275.9	6275.9	6275.9	6278.0	6280.1	6280.1	6278.0	6278.0	6286.5
7.5°	6178.9	6185.3	6183.2	6185.3	6187.4	6193.7	6191.6	6195.8	6200.0	6206.4	6214.8
10°	6115.7	6117.8	6115.7	6122.0	6126.2	6130.5	6130.5	6134.7	6138.9	6145.2	6155.8
12.5°	6058.8	6060.9	6063.0	6067.2	6071.4	6069.3	6073.5	6077.8	6079.9	6084.1	6090.4
15°	5995.5	6006.1	6004.0	6006.1	6008.2	6010.3	6012.4	6014.5	6012.4	6012.4	6016.6
17.5°	5936.5	5938.6	5940.7	5940.7	5940.7	5940.7	5936.5	5936.5	5930.2	5923.9	5919.6
20°	5845.9	5843.8	5839.5	5839.5	5831.1	5833.2	5824.8	5820.6	5810.0	5795.3	5780.5
22.5°	5687.8	5698.3	5694.1	5679.3	5670.9	5670.9	5662.5	5643.5	5626.6	5609.7	5590.8
25°	5500.1	5495.9	5489.6	5481.2	5468.5	5460.1	5447.4	5434.8	5407.4	5377.9	5361.0
27.5°	5249.3	5255.6	5240.8	5228.2	5221.9	5209.2	5196.6	5179.7	5146.0	5120.7	5091.1
30°	4968.9	4964.7	4962.6	4945.7	4928.8	4933.0	4907.7	4888.8	4863.5	4821.3	4798.1
32.5°	4631.6	4637.9	4625.2	4623.1	4591.5	4587.3	4587.3	4557.8	4536.7	4496.7	4465.0
35°	4273.2	4269.0	4264.8	4250.0	4247.9	4235.2	4224.7	4203.6	4176.2	4163.6	4138.3
37.5°	3860.0	3862.1	3864.2	3864.2	3855.8	3847.3	3838.9	3838.9	3801.0	3794.6	3765.1
40°	3474.2	3480.5	3478.4	3463.7	3465.8	3467.9	3465.8	3463.7	3440.5	3432.0	3427.8
42.5°	3099.0	3109.5	3099.0	3096.9	3099.0	3099.0	3094.7	3101.1	3090.5	3099.0	3080.0
45°	2749.0	2757.4	2751.1	2749.0	2744.8	2755.3	2742.7	2753.2	2746.9	2736.4	2740.6
47.5°	2447.5	2439.1	2447.5	2443.3	2437.0	2428.6	2441.2	2434.9	2420.1	2418.0	2422.2
50°	2167.2	2162.9	2167.2	2165.1	2154.5	2154.5	2152.4	2148.2	2144.0	2131.3	2122.9
52.5°	1899.4	1914.2	1903.6	1914.2	1899.4	1893.1	1895.2	1888.9	1880.5	1876.2	1859.4
55°	1678.1	1680.2	1680.2	1680.2	1671.8	1667.5	1663.3	1659.1	1659.1	1640.1	1623.3
57.5°	1486.2	1482.0	1479.9	1473.6	1469.4	1465.2	1460.9	1448.3	1435.6	1418.8	1406.1
60°	1288.1	1292.3	1292.3	1283.9	1277.5	1271.2	1269.1	1260.7	1245.9	1229.0	1210.1
62.5°	1117.3	1121.5	1111.0	1111.0	1098.3	1096.2	1096.2	1083.6	1066.7	1047.7	1026.7
65°	955.0	952.9	957.1	942.3	944.4	931.8	927.6	921.3	904.4	881.2	862.2
67.5°	801.1	805.3	799.0	794.8	786.3	782.1	777.9	758.9	750.5	729.4	708.3
70°	664.1	659.8	655.6	655.6	647.2	640.9	638.8	617.7	607.1	590.3	567.1
72.5°	535.5	531.3	527.0	520.7	514.4	512.3	499.6	487.0	474.3	453.2	436.4
75°	409.0	406.9	402.7	398.4	387.9	383.7	381.6	366.8	343.6	326.8	312.0
77.5°	295.1	297.2	288.8	280.4	274.1	267.7	263.5	250.9	236.1	217.1	202.4
80°	185.5	187.6	185.5	179.2	170.8	168.7	162.3	153.9	141.2	128.6	118.1
82.5°	99.1	99.1	97.0	94.9	88.5	88.5	84.3	78.0	71.7	65.4	56.9
85°	37.9	37.9	35.8	33.7	31.6	31.6	29.5	27.4	23.2	21.1	16.9
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3
2.5°	6353.9	6356.0	6358.1	6360.2	6360.2	6360.2	6362.4	6364.5	6364.5	6366.6	6368.7
5°	6290.7	6292.8	6299.1	6301.2	6305.4	6303.3	6309.7	6316.0	6320.2	6324.4	6330.7
7.5°	6219.0	6225.3	6233.8	6240.1	6242.2	6244.3	6250.6	6259.1	6265.4	6273.8	6280.1
10°	6160.0	6166.3	6174.7	6183.2	6183.2	6187.4	6191.6	6197.9	6204.2	6210.6	6219.0
12.5°	6094.6	6103.1	6105.2	6109.4	6109.4	6111.5	6115.7	6117.8	6124.1	6126.2	6138.9
15°	6016.6	6016.6	6016.6	6016.6	6016.6	6014.5	6010.3	6014.5	6014.5	6020.8	6027.2
17.5°	5909.1	5909.1	5896.5	5890.1	5892.2	5881.7	5879.6	5871.2	5871.2	5871.2	5877.5
20°	5767.9	5748.9	5734.1	5715.2	5706.7	5702.5	5698.3	5679.3	5677.2	5677.2	5677.2
22.5°	5567.6	5546.5	5525.4	5510.7	5487.5	5479.0	5470.6	5458.0	5443.2	5434.8	5453.7
25°	5323.0	5297.7	5272.4	5242.9	5236.6	5226.1	5205.0	5192.3	5186.0	5177.6	5181.8
27.5°	5063.7	5027.9	5000.5	4971.0	4960.4	4947.8	4928.8	4909.8	4888.8	4893.0	4893.0
30°	4766.5	4724.3	4694.8	4659.0	4656.9	4644.2	4627.4	4604.2	4587.3	4587.3	4597.8
32.5°	4444.0	4414.4	4387.0	4347.0	4340.7	4332.2	4319.6	4298.5	4285.8	4273.2	4281.6
35°	4117.2	4070.8	4051.8	4026.5	4028.6	4005.5	3986.5	3973.8	3975.9	3963.3	3969.6
37.5°	3765.1	3737.7	3710.3	3699.8	3689.2	3676.6	3668.2	3659.7	3655.5	3655.5	3651.3
40°	3408.9	3394.1	3381.4	3377.2	3358.3	3362.5	3360.4	3354.0	3341.4	3337.2	3349.8
42.5°	3073.7	3058.9	3052.6	3042.0	3039.9	3033.6	3033.6	3027.3	3025.2	3027.3	3025.2
45°	2727.9	2725.8	2711.1	2711.1	2719.5	2713.2	2696.3	2706.8	2706.8	2700.5	2713.2
47.5°	2409.6	2411.7	2403.3	2386.4	2386.4	2375.9	2363.2	2373.8	2380.1	2369.5	2375.9
50°	2120.8	2108.1	2091.3	2078.6	2084.9	2080.7	2070.2	2061.8	2055.4	2057.5	2066.0
52.5°	1846.7	1840.4	1821.4	1806.7	1802.5	1804.6	1791.9	1779.3	1781.4	1779.3	1775.1
55°	1600.1	1600.1	1574.8	1568.5	1551.6	1551.6	1534.7	1532.6	1526.3	1526.3	1515.7
57.5°	1387.2	1368.2	1353.4	1338.7	1332.3	1323.9	1317.6	1302.8	1296.5	1283.9	1281.7
60°	1191.1	1167.9	1157.4	1140.5	1127.9	1119.4	1108.9	1096.2	1087.8	1077.3	1064.6
62.5°	1016.1	990.8	969.7	952.9	942.3	940.2	923.4	908.6	891.7	879.1	858.0
65°	841.1	826.4	803.2	780.0	775.8	765.3	748.4	731.5	710.4	691.5	678.8
67.5°	687.3	668.3	647.2	634.5	619.8	611.4	592.4	567.1	543.9	524.9	501.7
70°	550.2	522.8	503.8	482.8	478.5	459.6	442.7	417.4	396.3	371.0	337.3
72.5°	413.2	385.8	371.0	350.0	337.3	326.8	303.6	280.4	246.7	227.7	198.2
75°	290.9	267.7	246.7	225.6	217.1	202.4	183.4	158.1	137.0	118.1	97.0
77.5°	181.3	166.5	147.6	130.7	122.3	113.8	99.1	80.1	65.4	50.6	37.9
80°	103.3	90.6	78.0	65.4	61.1	56.9	44.3	33.7	27.4	19.0	12.6
82.5°	48.5	40.1	33.7	27.4	25.3	21.1	14.8	10.5	6.3	4.2	2.1
85°	14.8	10.5	8.4	6.3	4.2	4.2	2.1	2.1	2.1	2.1	2.1
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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3
2.5°	6368.7	6370.8	6372.9	6372.9	6372.9	6375.0	6375.0	6379.2	6381.3	6383.4	6383.4
5°	6334.9	6341.3	6345.5	6347.6	6349.7	6356.0	6358.1	6364.5	6368.7	6372.9	6377.1
7.5°	6288.6	6294.9	6303.3	6307.5	6311.8	6320.2	6326.5	6337.1	6343.4	6351.8	6360.2
10°	6229.5	6238.0	6250.6	6254.8	6259.1	6269.6	6282.2	6294.9	6305.4	6318.1	6328.6
12.5°	6143.1	6155.8	6170.5	6174.7	6181.1	6195.8	6210.6	6229.5	6244.3	6261.2	6278.0
15°	6035.6	6052.5	6063.0	6067.2	6075.6	6096.7	6111.5	6132.6	6155.8	6181.1	6200.0
17.5°	5885.9	5894.3	5913.3	5921.8	5932.3	5953.4	5976.6	6001.9	6022.9	6050.3	6079.9
20°	5689.9	5702.5	5725.7	5734.1	5746.8	5765.8	5799.5	5820.6	5854.3	5888.0	5909.1
22.5°	5445.3	5468.5	5491.7	5502.2	5510.7	5533.9	5557.0	5592.9	5620.3	5666.7	5694.1
25°	5192.3	5198.7	5217.6	5236.6	5240.8	5270.3	5297.7	5339.9	5367.3	5396.8	5434.8
27.5°	4901.4	4909.8	4939.4	4943.6	4945.7	4977.3	5008.9	5042.7	5065.9	5099.6	5118.6
30°	4597.8	4612.6	4625.2	4633.7	4648.4	4663.2	4692.7	4734.9	4751.7	4781.3	4806.5
32.5°	4287.9	4287.9	4317.5	4319.6	4328.0	4361.7	4378.6	4403.9	4433.4	4456.6	4454.5
35°	3980.2	3988.6	3999.1	4013.9	4020.2	4041.3	4047.6	4066.6	4085.6	4102.4	4123.5
37.5°	3661.8	3661.8	3685.0	3695.6	3701.9	3712.4	3723.0	3741.9	3752.5	3758.8	3771.5
40°	3358.3	3366.7	3370.9	3375.1	3375.1	3389.9	3398.3	3413.1	3419.4	3436.3	3427.8
42.5°	3050.5	3046.3	3048.4	3058.9	3061.0	3069.4	3075.8	3084.2	3092.6	3088.4	3103.2
45°	2723.7	2725.8	2730.0	2730.0	2736.4	2746.9	2757.4	2761.7	2768.0	2778.5	2780.6
47.5°	2382.2	2392.7	2386.4	2403.3	2407.5	2409.6	2434.9	2437.0	2458.1	2462.3	2462.3
50°	2063.9	2063.9	2076.5	2082.8	2087.1	2093.4	2101.8	2110.2	2116.6	2131.3	2135.5
52.5°	1777.2	1781.4	1781.4	1775.1	1781.4	1781.4	1802.5	1804.6	1802.5	1806.7	1813.0
55°	1520.0	1522.1	1509.4	1517.9	1515.7	1509.4	1513.6	1501.0	1498.9	1505.2	1501.0
57.5°	1273.3	1264.9	1262.8	1252.2	1252.2	1241.7	1231.2	1231.2	1222.7	1208.0	1205.9
60°	1052.0	1039.3	1030.9	1024.6	1007.7	997.1	982.4	969.7	952.9	933.9	923.4
62.5°	843.3	828.5	811.6	803.2	790.6	765.3	746.3	727.3	699.9	683.0	666.2
65°	657.7	634.5	607.1	594.5	581.8	558.7	533.4	501.7	474.3	451.1	421.6
67.5°	476.4	451.1	423.7	404.8	392.1	364.7	335.2	307.8	276.2	250.9	236.1
70°	312.0	280.4	255.1	240.3	227.7	200.3	172.9	149.7	134.9	128.6	126.5
72.5°	177.1	145.5	126.5	111.7	101.2	82.2	67.5	59.0	54.8	52.7	48.5
75°	75.9	56.9	44.3	35.8	31.6	25.3	23.2	23.2	23.2	21.1	21.1
77.5°	27.4	19.0	14.8	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
80°	8.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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: LX6C130D010 EX6C1309035 6LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3	6381.3
2.5°	6385.5	6389.8	6389.8	6391.9	6394.0	6394.0	6394.0	6394.0
5°	6381.3	6385.5	6387.7	6389.8	6391.9	6394.0	6394.0	6394.0
7.5°	6364.5	6372.9	6375.0	6379.2	6383.4	6385.5	6385.5	6387.7
10°	6339.2	6347.6	6353.9	6358.1	6362.4	6366.6	6370.8	6370.8
12.5°	6292.8	6305.4	6313.9	6318.1	6328.6	6332.8	6337.1	6341.3
15°	6216.9	6233.8	6244.3	6252.7	6261.2	6273.8	6275.9	6282.2
17.5°	6103.1	6126.2	6130.5	6143.1	6153.6	6174.7	6172.6	6174.7
20°	5938.6	5963.9	5972.3	5985.0	6001.9	6016.6	6029.3	6018.7
22.5°	5719.4	5748.9	5761.5	5774.2	5784.7	5797.4	5814.2	5816.3
25°	5460.1	5485.4	5495.9	5504.3	5525.4	5536.0	5552.8	5554.9
27.5°	5162.8	5177.6	5192.3	5196.6	5219.7	5226.1	5240.8	5240.8
30°	4825.5	4842.4	4859.3	4865.6	4871.9	4878.2	4888.8	4895.1
32.5°	4479.8	4496.7	4503.0	4513.5	4515.6	4526.2	4522.0	4538.8
35°	4134.1	4138.3	4144.6	4142.5	4157.2	4155.1	4172.0	4169.9
37.5°	3786.2	3782.0	3792.5	3803.1	3798.9	3794.6	3801.0	3790.4
40°	3438.4	3440.5	3442.6	3453.1	3442.6	3448.9	3444.7	3442.6
42.5°	3113.7	3113.7	3101.1	3113.7	3105.3	3101.1	3109.5	3096.9
45°	2784.8	2782.7	2784.8	2787.0	2787.0	2787.0	2778.5	2787.0
47.5°	2472.8	2475.0	2466.5	2481.3	2477.1	2468.6	2468.6	2462.3
50°	2141.9	2154.5	2169.3	2156.6	2167.2	2160.8	2154.5	2160.8
52.5°	1827.8	1836.2	1825.6	1827.8	1850.9	1850.9	1838.3	1836.2
55°	1492.6	1492.6	1496.8	1498.9	1501.0	1528.4	1513.6	1517.9
57.5°	1193.2	1193.2	1186.9	1199.5	1191.1	1180.6	1191.1	1163.7
60°	906.5	904.4	898.1	889.6	868.6	862.2	839.0	836.9
62.5°	645.1	621.9	613.5	596.6	573.4	567.1	543.9	541.8
65°	400.5	373.1	364.7	356.3	345.7	343.6	335.2	339.4
67.5°	227.7	223.5	221.4	215.0	210.8	206.6	206.6	204.5
70°	120.2	111.7	109.6	107.5	107.5	99.1	97.0	101.2
72.5°	46.4	42.2	42.2	42.2	40.1	40.1	40.1	40.1
75°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
77.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	2.1
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)