

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 EX6C1309050 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 EX6C1309050 6LBSQLWWLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

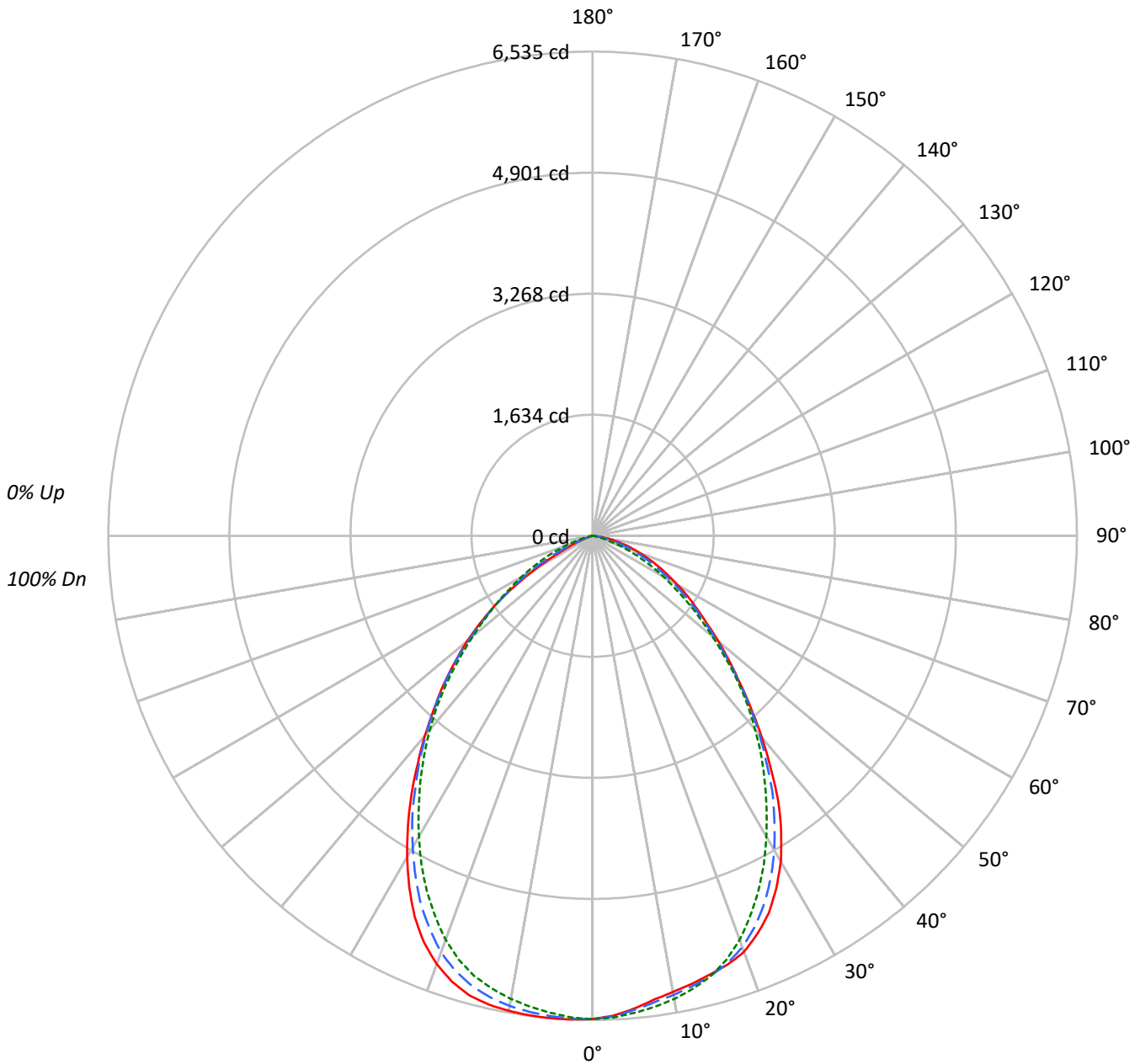
Lumens per Lamp: N/A
Luminaire Lumens: 11995.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.1 / 1.17
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	280818	280818	280818
5°	276955	279375	282448
10°	273280	277516	284678
15°	273148	274298	286208
20°	273763	265864	281859
25°	267059	251396	269719
30°	252485	233095	248736
35°	229561	212915	224011
40°	199579	191705	197764
45°	171082	168062	173445
50°	148367	140858	147931
55°	128744	117102	116456
60°	113366	94809	73660
65°	99443	71997	35342
70°	85439	47736	13017
75°	69536	20079	3577
80°	47011	4810	1612
85°	19168	1087	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.1	5.1
10°-20°	1749.7	14.6
20°-30°	2507.5	20.9
30°-40°	2613.1	21.8
40°-50°	2164.9	18.0
50°-60°	1435.0	12.0
60°-70°	694.9	5.8
70°-80°	196.7	1.6
80°-90°	19.1	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°	4871.3	40.6
0°-40°	7484.4	62.4
0°-60°	11084.3	92.4
0°-90°	11995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11995.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6522	6522	6522	6522	6522	
5°	6408	6425	6464	6509	6535	606
15°	6128	6149	6154	6292	6421	1732
25°	5622	5479	5292	5486	5678	2571
35°	4368	4230	4051	4176	4262	2708
45°	2810	2801	2760	2829	2848	2186
55°	1715	1659	1560	1532	1551	1549
65°	976	881	707	485	347	972
75°	418	319	121	24	22	448
85°	39	17	2	2	2	64
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°	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2
2.5°	6481.2	6483.4	6487.7	6483.4	6485.5	6487.7	6487.7	6489.8	6489.8	6492.0	6494.1
5°	6408.0	6414.4	6414.4	6414.4	6414.4	6416.6	6418.7	6418.7	6416.6	6416.6	6425.2
7.5°	6315.3	6321.8	6319.6	6321.8	6323.9	6330.4	6328.2	6332.5	6336.9	6343.3	6351.9
10°	6250.7	6252.8	6250.7	6257.1	6261.4	6265.8	6265.8	6270.1	6274.4	6280.8	6291.6
12.5°	6192.5	6194.6	6196.8	6201.1	6205.4	6203.3	6207.6	6211.9	6214.0	6218.3	6224.8
15°	6127.9	6138.6	6136.5	6138.6	6140.8	6142.9	6145.1	6147.2	6145.1	6145.1	6149.4
17.5°	6067.5	6069.7	6071.8	6071.8	6071.8	6071.8	6067.5	6067.5	6061.1	6054.6	6050.3
20°	5974.9	5972.7	5968.4	5968.4	5959.8	5961.9	5953.3	5949.0	5938.2	5923.2	5908.1
22.5°	5813.3	5824.0	5819.7	5804.7	5796.0	5796.0	5787.4	5768.0	5750.8	5733.5	5714.2
25°	5621.5	5617.2	5610.7	5602.1	5589.2	5580.6	5567.6	5554.7	5526.7	5496.5	5479.3
27.5°	5365.1	5371.6	5356.5	5343.6	5337.1	5324.2	5311.2	5294.0	5259.5	5233.7	5203.5
30°	5078.5	5074.2	5072.1	5054.8	5037.6	5041.9	5016.0	4996.7	4970.8	4927.7	4904.0
32.5°	4733.8	4740.3	4727.3	4725.2	4692.8	4688.5	4688.5	4658.4	4636.8	4595.9	4563.6
35°	4367.5	4363.2	4358.9	4343.8	4341.6	4328.7	4317.9	4296.4	4268.4	4255.5	4229.6
37.5°	3945.2	3947.3	3949.5	3949.5	3940.9	3932.3	3923.6	3923.6	3884.9	3878.4	3848.2
40°	3550.9	3557.3	3555.2	3540.1	3542.3	3544.4	3542.3	3540.1	3516.4	3507.8	3503.5
42.5°	3167.3	3178.1	3167.3	3165.2	3167.3	3167.3	3163.0	3169.5	3158.7	3167.3	3148.0
45°	2809.7	2818.3	2811.8	2809.7	2805.4	2816.1	2803.2	2814.0	2807.5	2796.7	2801.1
47.5°	2501.6	2492.9	2501.6	2497.3	2490.8	2482.2	2495.1	2488.6	2473.5	2471.4	2475.7
50°	2215.0	2210.7	2215.0	2212.8	2202.1	2202.1	2199.9	2195.6	2191.3	2178.4	2169.7
52.5°	1941.3	1956.4	1945.7	1956.4	1941.3	1934.9	1937.0	1930.6	1922.0	1917.6	1900.4
55°	1715.1	1717.3	1717.3	1717.3	1708.6	1704.3	1700.0	1695.7	1695.7	1676.3	1659.1
57.5°	1519.0	1514.7	1512.6	1506.1	1501.8	1497.5	1493.2	1480.3	1467.3	1450.1	1437.2
60°	1316.5	1320.8	1320.8	1312.2	1305.7	1299.3	1297.1	1288.5	1273.4	1256.2	1236.8
62.5°	1142.0	1146.3	1135.5	1135.5	1122.6	1120.4	1120.4	1107.5	1090.3	1070.9	1049.3
65°	976.1	973.9	978.2	963.1	965.3	952.4	948.1	941.6	924.3	900.6	881.3
67.5°	818.8	823.1	816.6	812.3	803.7	799.4	795.1	775.7	767.1	745.5	724.0
70°	678.7	674.4	670.1	670.1	661.5	655.0	652.9	631.3	620.5	603.3	579.6
72.5°	547.3	543.0	538.7	532.2	525.7	523.6	510.7	497.7	484.8	463.3	446.0
75°	418.0	415.8	411.5	407.2	396.5	392.1	390.0	374.9	351.2	334.0	318.9
77.5°	301.7	303.8	295.2	286.6	280.1	273.6	269.3	256.4	241.3	221.9	206.8
80°	189.6	191.8	189.6	183.1	174.5	172.4	165.9	157.3	144.4	131.4	120.7
82.5°	101.3	101.3	99.1	97.0	90.5	90.5	86.2	79.7	73.3	66.8	58.2
85°	38.8	38.8	36.6	34.5	32.3	32.3	30.2	28.0	23.7	21.5	17.2
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	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°	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2
2.5°	6494.1	6496.3	6498.5	6500.6	6500.6	6500.6	6502.8	6504.9	6504.9	6507.1	6509.2
5°	6429.5	6431.7	6438.1	6440.3	6444.6	6442.4	6448.9	6455.4	6459.7	6464.0	6470.4
7.5°	6356.2	6362.7	6371.3	6377.8	6379.9	6382.1	6388.6	6397.2	6403.6	6412.3	6418.7
10°	6295.9	6302.4	6311.0	6319.6	6319.6	6323.9	6328.2	6334.7	6341.2	6347.6	6356.2
12.5°	6229.1	6237.7	6239.9	6244.2	6244.2	6246.4	6250.7	6252.8	6259.3	6261.4	6274.4
15°	6149.4	6149.4	6149.4	6149.4	6149.4	6147.2	6142.9	6147.2	6147.2	6153.7	6160.2
17.5°	6039.5	6039.5	6026.6	6020.1	6022.3	6011.5	6009.3	6000.7	6000.7	6000.7	6007.2
20°	5895.1	5875.8	5860.7	5841.3	5832.7	5828.4	5824.0	5804.7	5802.5	5802.5	5802.5
22.5°	5690.5	5668.9	5647.4	5632.3	5608.6	5600.0	5591.3	5578.4	5563.3	5554.7	5574.1
25°	5440.5	5414.7	5388.8	5358.6	5352.2	5341.4	5319.9	5306.9	5300.5	5291.8	5296.2
27.5°	5175.5	5138.9	5110.9	5080.7	5069.9	5057.0	5037.6	5018.2	4996.7	5001.0	5001.0
30°	4871.7	4828.6	4798.4	4761.8	4759.6	4746.7	4729.5	4705.8	4688.5	4688.5	4699.3
32.5°	4542.0	4511.9	4483.8	4442.9	4436.4	4427.8	4414.9	4393.4	4380.4	4367.5	4376.1
35°	4208.1	4160.6	4141.3	4115.4	4117.6	4093.9	4074.5	4061.5	4063.7	4050.8	4057.2
37.5°	3848.2	3820.2	3792.2	3781.4	3770.7	3757.7	3749.1	3740.5	3736.2	3736.2	3731.9
40°	3484.1	3469.0	3456.1	3451.8	3432.4	3436.7	3434.5	3428.1	3415.1	3410.8	3423.8
42.5°	3141.5	3126.4	3119.9	3109.2	3107.0	3100.6	3100.6	3094.1	3091.9	3094.1	3091.9
45°	2788.1	2786.0	2770.9	2770.9	2779.5	2773.0	2755.8	2766.6	2766.6	2760.1	2773.0
47.5°	2462.8	2464.9	2456.3	2439.1	2439.1	2428.3	2415.4	2426.1	2432.6	2421.8	2428.3
50°	2167.6	2154.7	2137.4	2124.5	2131.0	2126.6	2115.9	2107.3	2100.8	2102.9	2111.6
52.5°	1887.5	1881.0	1861.6	1846.5	1842.2	1844.4	1831.5	1818.5	1820.7	1818.5	1814.2
55°	1635.4	1635.4	1609.5	1603.1	1585.8	1585.8	1568.6	1566.4	1560.0	1560.0	1549.2
57.5°	1417.8	1398.4	1383.3	1368.2	1361.7	1353.1	1346.7	1331.6	1325.1	1312.2	1310.0
60°	1217.4	1193.7	1182.9	1165.7	1152.7	1144.1	1133.4	1120.4	1111.8	1101.0	1088.1
62.5°	1038.5	1012.7	991.1	973.9	963.1	961.0	943.7	928.7	911.4	898.5	876.9
65°	859.7	844.6	820.9	797.2	792.9	782.1	764.9	747.7	726.1	706.7	693.8
67.5°	702.4	683.0	661.5	648.6	633.5	624.9	605.5	579.6	555.9	536.5	512.8
70°	562.4	534.4	515.0	493.4	489.1	469.7	452.5	426.6	405.1	379.2	344.7
72.5°	422.3	394.3	379.2	357.7	344.7	334.0	310.3	286.6	252.1	232.7	202.5
75°	297.3	273.6	252.1	230.5	221.9	206.8	187.5	161.6	140.1	120.7	99.1
77.5°	185.3	170.2	150.8	133.6	125.0	116.4	101.3	81.9	66.8	51.7	38.8
80°	105.6	92.7	79.7	66.8	62.5	58.2	45.2	34.5	28.0	19.4	12.9
82.5°	49.6	40.9	34.5	28.0	25.9	21.5	15.1	10.8	6.5	4.3	2.2
85°	15.1	10.8	8.6	6.5	4.3	4.3	2.2	2.2	2.2	2.2	2.2
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°	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2
2.5°	6509.2	6511.4	6513.5	6513.5	6513.5	6515.7	6515.7	6520.0	6522.2	6524.3	6524.3
5°	6474.8	6481.2	6485.5	6487.7	6489.8	6496.3	6498.5	6504.9	6509.2	6513.5	6517.8
7.5°	6427.4	6433.8	6442.4	6446.7	6451.1	6459.7	6466.1	6476.9	6483.4	6492.0	6500.6
10°	6367.0	6375.6	6388.6	6392.9	6397.2	6408.0	6420.9	6433.8	6444.6	6457.5	6468.3
12.5°	6278.7	6291.6	6306.7	6311.0	6317.5	6332.5	6347.6	6367.0	6382.1	6399.3	6416.6
15°	6168.8	6186.0	6196.8	6201.1	6209.7	6231.3	6246.4	6267.9	6291.6	6317.5	6336.9
17.5°	6015.8	6024.4	6043.8	6052.4	6063.2	6084.8	6108.5	6134.3	6155.9	6183.9	6214.0
20°	5815.4	5828.4	5852.1	5860.7	5873.6	5893.0	5927.5	5949.0	5983.5	6018.0	6039.5
22.5°	5565.5	5589.2	5612.9	5623.7	5632.3	5656.0	5679.7	5716.3	5744.3	5791.7	5819.7
25°	5306.9	5313.4	5332.8	5352.2	5356.5	5386.6	5414.7	5457.8	5485.8	5515.9	5554.7
27.5°	5009.6	5018.2	5048.4	5052.7	5054.8	5087.2	5119.5	5153.9	5177.6	5212.1	5231.5
30°	4699.3	4714.4	4727.3	4735.9	4751.0	4766.1	4796.3	4839.4	4856.6	4886.8	4912.6
32.5°	4382.6	4382.6	4412.7	4414.9	4423.5	4458.0	4475.2	4501.1	4531.2	4555.0	4552.8
35°	4068.0	4076.6	4087.4	4102.5	4108.9	4130.5	4136.9	4156.3	4175.7	4193.0	4214.5
37.5°	3742.6	3742.6	3766.3	3777.1	3783.6	3794.4	3805.1	3824.5	3835.3	3841.8	3854.7
40°	3432.4	3441.0	3445.3	3449.6	3449.6	3464.7	3473.3	3488.4	3494.9	3512.1	3503.5
42.5°	3117.8	3113.5	3115.6	3126.4	3128.6	3137.2	3143.6	3152.3	3160.9	3156.6	3171.7
45°	2783.8	2786.0	2790.3	2790.3	2796.7	2807.5	2818.3	2822.6	2829.1	2839.8	2842.0
47.5°	2434.8	2445.5	2439.1	2456.3	2460.6	2462.8	2488.6	2490.8	2512.3	2516.6	2516.6
50°	2109.4	2109.4	2122.3	2128.8	2133.1	2139.6	2148.2	2156.8	2163.3	2178.4	2182.7
52.5°	1816.4	1820.7	1820.7	1814.2	1820.7	1820.7	1842.2	1844.4	1842.2	1846.5	1853.0
55°	1553.5	1555.7	1542.7	1551.4	1549.2	1542.7	1547.0	1534.1	1532.0	1538.4	1534.1
57.5°	1301.4	1292.8	1290.6	1279.9	1279.9	1269.1	1258.3	1258.3	1249.7	1234.6	1232.5
60°	1075.2	1062.2	1053.6	1047.2	1029.9	1019.2	1004.1	991.1	973.9	954.5	943.7
62.5°	861.9	846.8	829.5	820.9	808.0	782.1	762.7	743.4	715.3	698.1	680.9
65°	672.3	648.6	620.5	607.6	594.7	571.0	545.1	512.8	484.8	461.1	430.9
67.5°	487.0	461.1	433.1	413.7	400.8	372.8	342.6	314.6	282.3	256.4	241.3
70°	318.9	286.6	260.7	245.6	232.7	204.7	176.7	153.0	137.9	131.4	129.3
72.5°	181.0	148.7	129.3	114.2	103.4	84.0	68.9	60.3	56.0	53.9	49.6
75°	77.6	58.2	45.2	36.6	32.3	25.9	23.7	23.7	23.7	21.5	21.5
77.5°	28.0	19.4	15.1	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
80°	8.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	4.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	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 EX6C1309050 6LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2	6522.2
2.5°	6526.5	6530.8	6530.8	6532.9	6535.1	6535.1	6535.1	6535.1
5°	6522.2	6526.5	6528.6	6530.8	6532.9	6535.1	6535.1	6535.1
7.5°	6504.9	6513.5	6515.7	6520.0	6524.3	6526.5	6526.5	6528.6
10°	6479.1	6487.7	6494.1	6498.5	6502.8	6507.1	6511.4	6511.4
12.5°	6431.7	6444.6	6453.2	6457.5	6468.3	6472.6	6476.9	6481.2
15°	6354.1	6371.3	6382.1	6390.7	6399.3	6412.3	6414.4	6420.9
17.5°	6237.7	6261.4	6265.8	6278.7	6289.5	6311.0	6308.8	6311.0
20°	6069.7	6095.5	6104.2	6117.1	6134.3	6149.4	6162.3	6151.6
22.5°	5845.6	5875.8	5888.7	5901.6	5912.4	5925.3	5942.6	5944.7
25°	5580.6	5606.4	5617.2	5625.8	5647.4	5658.1	5675.4	5677.5
27.5°	5276.8	5291.8	5306.9	5311.2	5334.9	5341.4	5356.5	5356.5
30°	4932.0	4949.3	4966.5	4973.0	4979.4	4985.9	4996.7	5003.1
32.5°	4578.7	4595.9	4602.4	4613.1	4615.3	4626.1	4621.7	4639.0
35°	4225.3	4229.6	4236.1	4233.9	4249.0	4246.8	4264.1	4261.9
37.5°	3869.8	3865.5	3876.2	3887.0	3882.7	3878.4	3884.9	3874.1
40°	3514.3	3516.4	3518.6	3529.3	3518.6	3525.0	3520.7	3518.6
42.5°	3182.4	3182.4	3169.5	3182.4	3173.8	3169.5	3178.1	3165.2
45°	2846.3	2844.2	2846.3	2848.5	2848.5	2848.5	2839.8	2848.5
47.5°	2527.4	2529.6	2521.0	2536.0	2531.7	2523.1	2523.1	2516.6
50°	2189.1	2202.1	2217.1	2204.2	2215.0	2208.5	2202.1	2208.5
52.5°	1868.1	1876.7	1865.9	1868.1	1891.8	1891.8	1878.9	1876.7
55°	1525.5	1525.5	1529.8	1532.0	1534.1	1562.1	1547.0	1551.4
57.5°	1219.5	1219.5	1213.1	1226.0	1217.4	1206.6	1217.4	1189.4
60°	926.5	924.3	917.9	909.3	887.7	881.3	857.6	855.4
62.5°	659.3	635.6	627.0	609.8	586.1	579.6	555.9	553.7
65°	409.4	381.4	372.8	364.1	353.4	351.2	342.6	346.9
67.5°	232.7	228.4	226.2	219.8	215.5	211.2	211.2	209.0
70°	122.8	114.2	112.0	109.9	109.9	101.3	99.1	103.4
72.5°	47.4	43.1	43.1	43.1	40.9	40.9	40.9	40.9
75°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
77.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	2.2
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)