

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: P684019

Luminaire Tested: **LX6C130D010 EX6C1309050 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C130D010 EX6C1309050 6LBLWWH
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

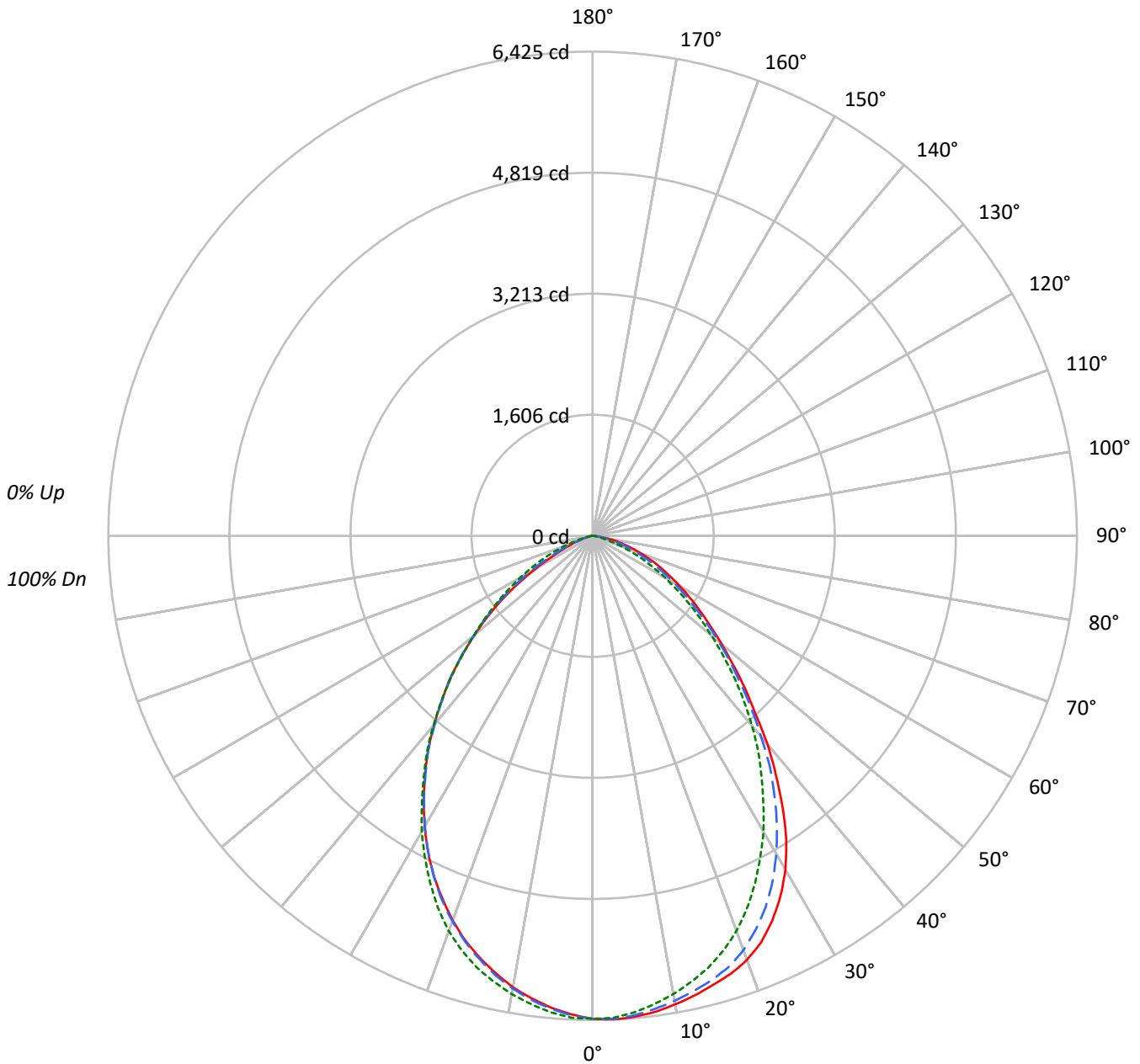
Lumens per Lamp: N/A
Luminaire Lumens: 11659.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	351381	351381	351381
5°	352602	349405	345965
10°	351524	343726	338688
15°	350201	336631	328804
20°	349418	325540	316865
25°	340919	308080	301300
30°	323911	286949	282176
35°	294000	261268	259534
40°	257948	235126	233895
45°	221155	205455	207122
50°	190365	175116	174195
55°	166379	147847	138786
60°	146216	121185	94729
65°	128003	93901	57010
70°	109121	63200	33499
75°	88070	32852	18258
80°	61214	12912	10197
85°	24405	4088	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.6	5.2
10°-20°	1677.1	14.4
20°-30°	2386.6	20.5
30°-40°	2511.9	21.5
40°-50°	2093.4	18.0
50°-60°	1414.3	12.1
60°-70°	717.1	6.2
70°-80°	231.5	2.0
80°-90°	26.6	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°	4664.3	40.0
0°-40°	7176.2	61.6
0°-60°	10683.9	91.6
0°-90°	11659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11659.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6410	6410	6410	6410	6410	
5°	6408	6388	6349	6302	6287	609
15°	6170	6104	5931	5813	5794	1743
25°	5636	5432	5093	4988	4981	2583
35°	4393	4204	3904	3865	3878	2734
45°	2853	2779	2650	2661	2672	2208
55°	1741	1657	1547	1500	1452	1567
65°	987	890	724	524	440	982
75°	416	325	155	84	86	449
85°	39	22	6	9	9	67
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°	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7
2.5°	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6422.6	6422.6	6418.3	6418.3	6416.1
5°	6407.5	6409.7	6409.7	6407.5	6407.5	6403.2	6403.2	6401.1	6394.6	6390.3	6388.1
7.5°	6370.9	6370.9	6368.7	6366.6	6364.4	6358.0	6355.8	6349.4	6345.0	6340.7	6332.1
10°	6314.9	6314.9	6312.7	6308.4	6306.3	6302.0	6302.0	6293.3	6284.7	6273.9	6267.5
12.5°	6248.1	6250.2	6245.9	6243.8	6237.3	6235.2	6230.9	6220.1	6213.6	6200.7	6189.9
15°	6170.5	6174.8	6174.8	6166.2	6159.8	6157.6	6151.1	6144.7	6129.6	6116.7	6103.7
17.5°	6095.1	6099.4	6095.1	6088.7	6082.2	6073.6	6069.3	6056.3	6036.9	6019.7	6000.3
20°	5989.5	5996.0	5987.4	5976.6	5963.7	5961.5	5955.1	5933.5	5905.5	5879.7	5851.7
22.5°	5840.9	5836.6	5830.1	5825.8	5804.3	5791.3	5782.7	5754.7	5724.5	5690.1	5655.6
25°	5636.2	5644.8	5631.9	5612.5	5601.7	5588.8	5567.3	5537.1	5509.1	5472.5	5431.5
27.5°	5394.9	5394.9	5377.7	5371.2	5347.5	5330.3	5319.5	5289.3	5252.7	5216.1	5170.8
30°	5117.0	5104.0	5104.0	5073.9	5054.5	5048.0	5037.3	4987.7	4955.4	4916.6	4871.4
32.5°	4780.9	4778.7	4770.1	4750.7	4724.8	4703.3	4703.3	4668.8	4625.7	4578.3	4550.3
35°	4393.1	4395.2	4390.9	4369.4	4369.4	4343.5	4339.2	4309.0	4274.6	4237.9	4203.5
37.5°	3992.3	4000.9	3992.3	3981.5	3975.1	3972.9	3953.5	3932.0	3906.1	3884.6	3858.7
40°	3604.5	3591.6	3595.9	3574.3	3576.5	3572.2	3563.6	3535.6	3520.5	3498.9	3470.9
42.5°	3186.5	3199.5	3203.8	3190.8	3186.5	3177.9	3186.5	3175.8	3158.5	3147.7	3121.9
45°	2852.6	2839.6	2846.1	2841.8	2844.0	2826.7	2820.3	2815.9	2809.5	2790.1	2779.3
47.5°	2520.8	2522.9	2520.8	2512.2	2507.9	2507.9	2499.2	2486.3	2486.3	2473.4	2464.8
50°	2232.1	2232.1	2236.4	2225.6	2221.3	2212.7	2214.8	2201.9	2193.3	2182.5	2176.1
52.5°	1967.1	1969.2	1960.6	1962.8	1958.5	1958.5	1949.8	1941.2	1932.6	1913.2	1908.9
55°	1740.8	1743.0	1732.2	1736.5	1723.6	1717.1	1712.8	1699.9	1699.9	1680.5	1656.8
57.5°	1529.7	1527.6	1525.4	1518.9	1510.3	1503.9	1497.4	1482.3	1475.8	1462.9	1443.5
60°	1333.6	1331.5	1327.2	1325.0	1318.6	1303.5	1303.5	1292.7	1271.2	1258.2	1238.8
62.5°	1148.4	1148.4	1146.2	1139.7	1133.3	1126.8	1122.5	1113.9	1092.3	1077.3	1060.0
65°	986.8	984.6	978.1	967.4	963.1	963.1	948.0	941.5	924.3	909.2	889.8
67.5°	831.6	823.0	818.7	820.9	807.9	807.9	795.0	784.2	769.2	743.3	728.2
70°	680.8	676.5	672.2	667.9	665.7	657.1	650.7	637.7	622.7	603.3	579.6
72.5°	545.1	545.1	538.6	534.3	527.9	519.2	514.9	504.2	486.9	465.4	448.1
75°	415.8	415.8	415.8	407.2	402.9	398.6	385.7	379.2	359.8	346.9	325.3
77.5°	305.9	301.6	295.2	293.0	288.7	284.4	277.9	267.2	249.9	234.8	221.9
80°	193.9	200.4	193.9	193.9	183.1	178.8	176.7	163.7	157.3	144.4	133.6
82.5°	107.7	109.9	105.6	103.4	97.0	94.8	94.8	86.2	81.9	73.3	66.8
85°	38.8	40.9	38.8	38.8	34.5	36.6	34.5	32.3	28.0	23.7	21.5
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7
2.5°	6416.1	6411.8	6411.8	6409.7	6407.5	6407.5	6407.5	6405.4	6401.1	6401.1	6398.9
5°	6383.8	6379.5	6373.1	6368.7	6366.6	6364.4	6362.3	6360.1	6351.5	6349.4	6342.9
7.5°	6325.7	6321.3	6310.6	6306.3	6299.8	6297.6	6289.0	6284.7	6276.1	6267.5	6263.2
10°	6256.7	6245.9	6237.3	6226.5	6222.2	6215.8	6205.0	6192.1	6185.6	6174.8	6166.2
12.5°	6179.1	6166.2	6149.0	6136.1	6131.7	6121.0	6103.7	6093.0	6077.9	6060.6	6045.6
15°	6082.2	6067.1	6052.0	6028.3	6021.9	6008.9	5991.7	5970.2	5948.6	5931.4	5914.1
17.5°	5976.6	5952.9	5929.2	5903.4	5884.0	5877.5	5849.5	5819.3	5800.0	5769.8	5750.4
20°	5828.0	5795.6	5756.9	5731.0	5713.8	5694.4	5662.1	5629.7	5606.0	5580.2	5552.2
22.5°	5623.3	5593.1	5547.9	5509.1	5496.2	5468.2	5440.1	5410.0	5379.8	5351.8	5317.3
25°	5382.0	5349.7	5304.4	5265.6	5244.1	5231.2	5177.3	5147.1	5117.0	5093.3	5069.6
27.5°	5134.2	5076.0	5045.9	4985.5	4966.2	4961.8	4912.3	4880.0	4847.7	4815.3	4785.2
30°	4828.3	4783.0	4737.8	4694.7	4668.8	4653.8	4617.1	4576.2	4554.6	4533.1	4502.9
32.5°	4511.6	4470.6	4414.6	4373.7	4354.3	4332.7	4300.4	4272.4	4240.1	4216.4	4209.9
35°	4173.3	4128.0	4080.6	4050.5	4046.2	4020.3	3988.0	3964.3	3940.6	3904.0	3897.5
37.5°	3811.3	3785.5	3753.2	3710.1	3690.7	3690.7	3658.4	3641.1	3611.0	3608.8	3591.6
40°	3455.8	3445.1	3395.5	3382.6	3378.3	3348.1	3339.5	3309.3	3287.8	3285.6	3259.8
42.5°	3104.7	3076.6	3068.0	3046.5	3027.1	3022.8	3003.4	2990.5	2981.8	2968.9	2956.0
45°	2755.6	2749.2	2727.6	2712.5	2706.1	2697.5	2691.0	2665.1	2660.8	2650.1	2643.6
47.5°	2454.0	2436.8	2417.4	2400.1	2398.0	2385.0	2370.0	2370.0	2346.3	2344.1	2339.8
50°	2154.5	2141.6	2130.8	2107.1	2111.4	2094.2	2092.0	2072.6	2061.9	2053.3	2064.0
52.5°	1891.7	1865.8	1861.5	1842.1	1835.6	1837.8	1814.1	1807.6	1803.3	1794.7	1790.4
55°	1641.7	1628.8	1611.6	1598.6	1587.9	1577.1	1568.5	1568.5	1544.8	1546.9	1536.2
57.5°	1422.0	1411.2	1389.7	1370.3	1366.0	1353.0	1342.3	1331.5	1329.3	1314.3	1303.5
60°	1225.9	1206.5	1178.5	1169.9	1157.0	1146.2	1135.4	1122.5	1116.0	1105.3	1085.9
62.5°	1042.8	1010.5	999.7	982.5	967.4	960.9	943.7	928.6	917.8	902.7	887.7
65°	868.3	844.6	825.2	805.8	803.6	786.4	771.3	758.4	736.8	723.9	695.9
67.5°	708.8	687.3	665.7	646.4	631.3	627.0	603.3	588.2	573.1	547.2	523.5
70°	562.3	540.8	523.5	499.8	493.4	476.1	458.9	443.8	418.0	394.3	374.9
72.5°	428.7	405.0	385.7	368.4	357.6	342.6	325.3	308.1	282.2	258.5	241.3
75°	305.9	288.7	269.3	252.1	243.5	234.8	215.5	196.1	178.8	155.1	140.0
77.5°	206.8	189.6	172.4	157.3	146.5	140.0	127.1	112.0	97.0	84.0	73.3
80°	120.7	109.9	97.0	84.0	81.9	75.4	64.6	56.0	47.4	40.9	32.3
82.5°	58.2	51.7	43.1	36.6	32.3	30.2	25.9	21.5	17.2	15.1	15.1
85°	17.2	15.1	12.9	10.8	8.6	8.6	6.5	6.5	6.5	6.5	6.5
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7
2.5°	6392.4	6390.3	6388.1	6386.0	6381.7	6381.7	6375.2	6370.9	6370.9	6366.6	6364.4
5°	6336.4	6330.0	6327.8	6323.5	6319.2	6317.0	6308.4	6306.3	6302.0	6297.6	6297.6
7.5°	6256.7	6248.1	6239.5	6235.2	6233.0	6226.5	6222.2	6220.1	6213.6	6209.3	6200.7
10°	6151.1	6144.7	6133.9	6129.6	6125.3	6121.0	6110.2	6103.7	6101.6	6097.3	6093.0
12.5°	6028.3	6019.7	6008.9	6000.3	5996.0	5989.5	5978.8	5972.3	5972.3	5963.7	5963.7
15°	5896.9	5884.0	5864.6	5856.0	5853.8	5840.9	5832.3	5823.7	5812.9	5808.6	5808.6
17.5°	5728.9	5707.3	5690.1	5690.1	5681.5	5668.5	5655.6	5649.1	5642.7	5634.1	5629.7
20°	5530.6	5515.6	5496.2	5496.2	5476.8	5472.5	5459.5	5457.4	5442.3	5444.5	5438.0
22.5°	5291.5	5282.9	5272.1	5263.5	5252.7	5239.8	5233.3	5235.5	5229.0	5226.9	5224.7
25°	5050.2	5026.5	5013.6	5009.2	5004.9	4994.2	4989.9	4987.7	4987.7	4981.2	4983.4
27.5°	4772.2	4755.0	4737.8	4744.2	4735.6	4729.2	4724.8	4718.4	4722.7	4720.5	4722.7
30°	4487.9	4466.3	4455.5	4459.8	4457.7	4440.5	4449.1	4446.9	4449.1	4449.1	4453.4
32.5°	4188.4	4173.3	4171.1	4173.3	4153.9	4156.1	4147.4	4160.4	4162.5	4175.4	4164.7
35°	3884.6	3876.0	3860.9	3858.7	3860.9	3858.7	3858.7	3867.4	3865.2	3878.1	3873.8
37.5°	3572.2	3567.9	3552.8	3557.1	3548.5	3563.6	3567.9	3563.6	3578.6	3574.3	3572.2
40°	3266.2	3259.8	3251.2	3268.4	3257.6	3249.0	3264.1	3251.2	3255.5	3268.4	3268.4
42.5°	2956.0	2945.2	2945.2	2945.2	2943.1	2943.1	2949.5	2956.0	2951.7	2953.8	2971.1
45°	2643.6	2641.4	2635.0	2639.3	2637.1	2647.9	2647.9	2652.2	2660.8	2669.4	2665.1
47.5°	2342.0	2337.6	2344.1	2339.8	2342.0	2335.5	2339.8	2352.7	2363.5	2348.4	2363.5
50°	2059.7	2051.1	2048.9	2055.4	2053.3	2051.1	2055.4	2055.4	2051.1	2051.1	2066.2
52.5°	1790.4	1781.8	1775.3	1786.1	1779.6	1781.8	1773.2	1773.2	1777.5	1773.2	1766.7
55°	1538.3	1531.9	1523.2	1527.6	1516.8	1514.6	1506.0	1506.0	1499.5	1495.2	1482.3
57.5°	1297.0	1292.7	1273.3	1271.2	1273.3	1258.2	1243.2	1236.7	1219.5	1215.1	1213.0
60°	1083.7	1060.0	1049.2	1036.3	1027.7	1021.2	1004.0	993.2	967.4	952.3	950.1
62.5°	861.8	851.0	838.1	818.7	814.4	792.9	775.6	747.6	734.7	715.3	695.9
65°	683.0	655.0	635.6	624.8	607.6	588.2	568.8	538.6	523.5	499.8	480.5
67.5°	499.8	476.1	450.3	441.7	426.6	402.9	383.5	357.6	344.7	323.2	316.7
70°	342.6	321.0	301.6	288.7	277.9	254.2	234.8	226.2	213.3	209.0	209.0
72.5°	219.8	200.4	178.8	172.4	163.7	150.8	137.9	133.6	137.9	135.7	135.7
75°	122.8	112.0	97.0	90.5	90.5	86.2	84.0	84.0	84.0	84.0	84.0
77.5°	62.5	56.0	51.7	49.6	49.6	49.6	51.7	51.7	51.7	53.9	51.7
80°	30.2	28.0	28.0	28.0	30.2	30.2	30.2	30.2	30.2	32.3	30.2
82.5°	15.1	15.1	15.1	15.1	15.1	15.1	17.2	17.2	17.2	17.2	17.2
85°	6.5	6.5	6.5	6.5	8.6	8.6	8.6	8.6	8.6	8.6	8.6
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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: P684019

CATALOG NUMBER: LX6C130D010 EX6C1309050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7	6409.7
2.5°	6362.3	6358.0	6358.0	6355.8	6355.8	6355.8	6355.8	6358.0
5°	6293.3	6291.2	6291.2	6286.9	6286.9	6286.9	6286.9	6286.9
7.5°	6200.7	6196.4	6198.5	6194.2	6194.2	6196.4	6194.2	6192.1
10°	6086.5	6084.3	6086.5	6086.5	6082.2	6080.0	6082.2	6084.3
12.5°	5957.2	5955.1	5950.8	5952.9	5952.9	5950.8	5948.6	5944.3
15°	5806.4	5804.3	5802.1	5800.0	5797.8	5800.0	5797.8	5793.5
17.5°	5629.7	5629.7	5627.6	5625.4	5623.3	5619.0	5621.1	5627.6
20°	5440.1	5438.0	5433.7	5435.8	5427.2	5422.9	5425.1	5431.5
22.5°	5222.5	5216.1	5220.4	5213.9	5213.9	5216.1	5213.9	5209.6
25°	4985.5	4976.9	4981.2	4983.4	4983.4	4981.2	4979.1	4981.2
27.5°	4722.7	4729.2	4729.2	4724.8	4731.3	4722.7	4727.0	4729.2
30°	4453.4	4446.9	4444.8	4453.4	4466.3	4455.5	4455.5	4457.7
32.5°	4175.4	4166.8	4166.8	4171.1	4169.0	4169.0	4177.6	4166.8
35°	3878.1	3882.4	3865.2	3876.0	3880.3	3876.0	3878.1	3878.1
37.5°	3578.6	3574.3	3574.3	3574.3	3580.8	3580.8	3585.1	3583.0
40°	3283.5	3274.9	3272.7	3277.0	3268.4	3274.9	3274.9	3268.4
42.5°	2964.6	2966.8	2977.5	2966.8	2968.9	2966.8	2962.5	2960.3
45°	2669.4	2675.9	2671.6	2669.4	2671.6	2663.0	2665.1	2671.6
47.5°	2357.0	2370.0	2357.0	2365.7	2363.5	2359.2	2354.9	2346.3
50°	2064.0	2068.3	2066.2	2064.0	2061.9	2059.7	2048.9	2042.5
52.5°	1764.5	1764.5	1764.5	1764.5	1743.0	1753.8	1749.5	1736.5
55°	1471.5	1478.0	1469.4	1469.4	1454.3	1454.3	1450.0	1452.1
57.5°	1189.3	1182.8	1176.4	1176.4	1161.3	1154.8	1148.4	1139.7
60°	926.4	920.0	911.4	900.6	885.5	885.5	881.2	864.0
62.5°	678.7	667.9	661.4	652.8	639.9	631.3	624.8	629.1
65°	465.4	454.6	446.0	446.0	446.0	441.7	439.5	439.5
67.5°	305.9	312.4	308.1	312.4	312.4	308.1	305.9	310.3
70°	211.1	211.1	209.0	209.0	209.0	209.0	206.8	209.0
72.5°	135.7	135.7	135.7	137.9	135.7	135.7	137.9	137.9
75°	86.2	86.2	86.2	88.3	86.2	86.2	88.3	86.2
77.5°	51.7	53.9	53.9	53.9	53.9	51.7	53.9	53.9
80°	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
82.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
85°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)