

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: P683875

Luminaire Tested: **LX6C100D010 EX6C1009030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683875
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: LX6C100D010 EX6C1009030 6LBLWWH
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

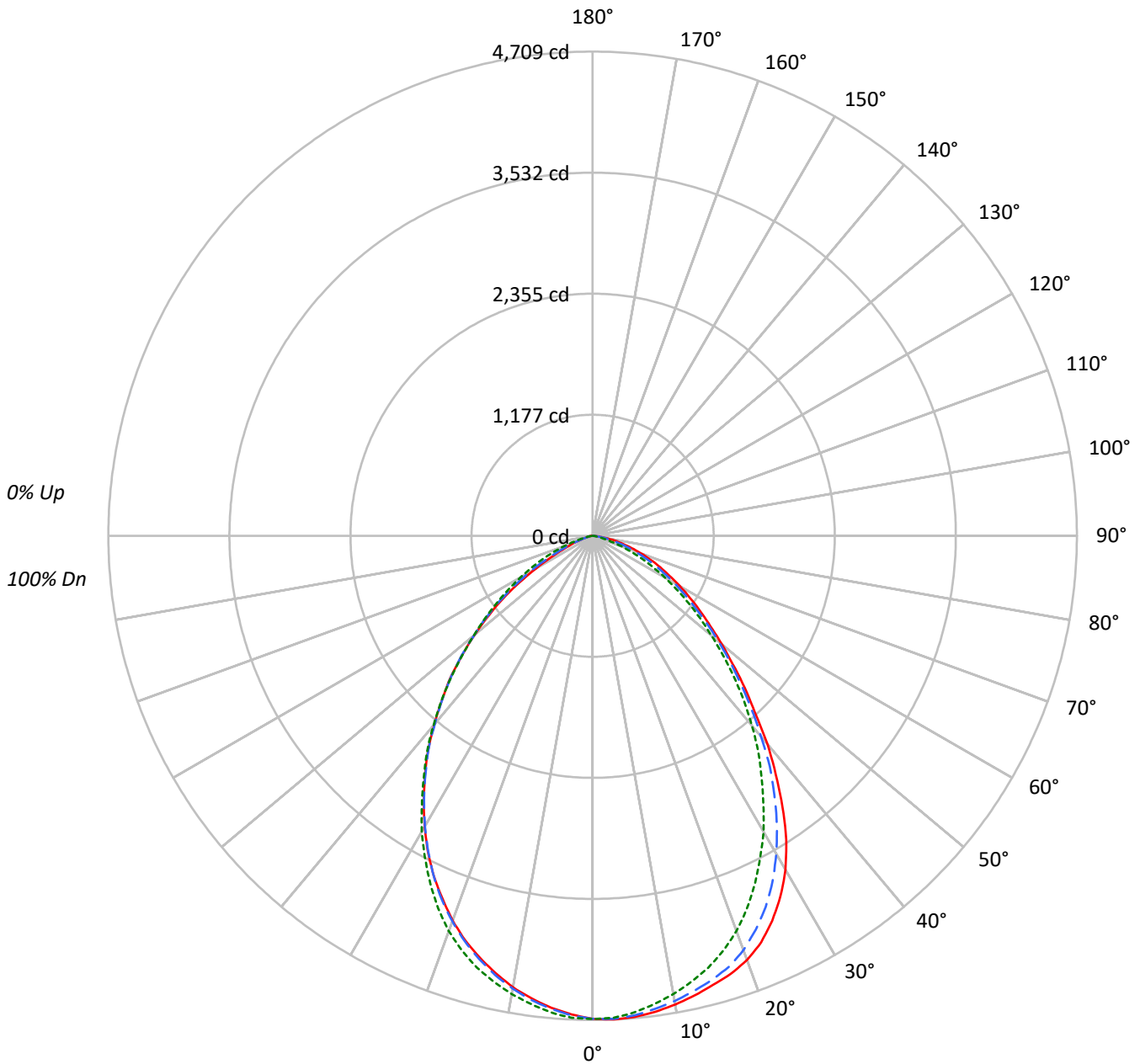
Lumens per Lamp: N/A
Luminaire Lumens: 8546.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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°	257562	257562	257562
5°	258457	256113	253593
10°	257666	251949	248259
15°	256698	246749	241012
20°	256123	238622	232263
25°	249891	225817	220851
30°	237423	210330	206836
35°	215499	191507	190242
40°	189076	172351	171443
45°	162102	150597	151822
50°	139535	128354	127680
55°	121955	108374	101731
60°	107184	88831	69435
65°	93823	68827	41794
70°	79981	46322	24555
75°	64559	24083	13386
80°	44861	9471	7482
85°	17863	2956	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.2	5.2
10°-20°	1229.3	14.4
20°-30°	1749.3	20.5
30°-40°	1841.2	21.5
40°-50°	1534.4	18.0
50°-60°	1036.7	12.1
60°-70°	525.6	6.2
70°-80°	169.7	2.0
80°-90°	19.5	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°	3418.9	40.0
0°-40°	5260.1	61.6
0°-60°	7831.2	91.6
0°-90°	8546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8546.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4698	4698	4698	4698	4698	
5°	4697	4682	4654	4619	4608	446
15°	4523	4474	4348	4261	4247	1278
25°	4131	3981	3733	3656	3651	1893
35°	3220	3081	2862	2833	2843	2004
45°	2091	2037	1942	1950	1958	1618
55°	1276	1214	1134	1099	1064	1149
65°	723	652	531	384	322	720
75°	305	238	114	62	63	329
85°	28	16	5	6	6	49
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°	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3
2.5°	4709.3	4709.3	4709.3	4709.3	4709.3	4709.3	4707.7	4707.7	4704.6	4704.6	4703.0
5°	4696.7	4698.3	4698.3	4696.7	4696.7	4693.5	4693.5	4692.0	4687.2	4684.1	4682.5
7.5°	4669.8	4669.8	4668.3	4666.7	4665.1	4660.4	4658.8	4654.1	4650.9	4647.7	4641.4
10°	4628.8	4628.8	4627.2	4624.0	4622.5	4619.3	4619.3	4613.0	4606.7	4598.8	4594.0
12.5°	4579.8	4581.4	4578.2	4576.7	4571.9	4570.3	4567.2	4559.3	4554.6	4545.1	4537.2
15°	4523.0	4526.1	4526.1	4519.8	4515.1	4513.5	4508.8	4504.0	4493.0	4483.5	4474.0
17.5°	4467.7	4470.9	4467.7	4463.0	4458.2	4451.9	4448.7	4439.3	4425.1	4412.4	4398.2
20°	4390.3	4395.1	4388.7	4380.8	4371.4	4369.8	4365.0	4349.3	4328.7	4309.8	4289.2
22.5°	4281.3	4278.2	4273.5	4270.3	4254.5	4245.0	4238.7	4218.2	4196.1	4170.8	4145.5
25°	4131.3	4137.6	4128.2	4113.9	4106.1	4096.6	4080.8	4058.7	4038.1	4011.3	3981.3
27.5°	3954.4	3954.4	3941.8	3937.1	3919.7	3907.1	3899.2	3877.1	3850.2	3823.4	3790.2
30°	3750.7	3741.2	3741.2	3719.1	3704.9	3700.2	3692.3	3656.0	3632.3	3603.8	3570.7
32.5°	3504.4	3502.8	3496.5	3482.2	3463.3	3447.5	3447.5	3422.2	3390.6	3355.9	3335.4
35°	3220.1	3221.7	3218.5	3202.7	3202.7	3183.8	3180.6	3158.5	3133.2	3106.4	3081.1
37.5°	2926.4	2932.7	2926.4	2918.5	2913.7	2912.1	2897.9	2882.1	2863.2	2847.4	2828.4
40°	2642.1	2632.6	2635.8	2620.0	2621.6	2618.4	2612.1	2591.5	2580.5	2564.7	2544.2
42.5°	2335.7	2345.2	2348.3	2338.9	2335.7	2329.4	2335.7	2327.8	2315.2	2307.3	2288.3
45°	2090.9	2081.5	2086.2	2083.0	2084.6	2072.0	2067.2	2064.1	2059.3	2045.1	2037.2
47.5°	1847.7	1849.3	1847.7	1841.4	1838.2	1838.2	1831.9	1822.5	1822.5	1813.0	1806.7
50°	1636.1	1636.1	1639.3	1631.4	1628.2	1621.9	1623.5	1614.0	1607.7	1599.8	1595.0
52.5°	1441.9	1443.4	1437.1	1438.7	1435.5	1435.5	1429.2	1422.9	1416.6	1402.4	1399.2
55°	1276.0	1277.6	1269.7	1272.9	1263.4	1258.7	1255.5	1246.0	1246.0	1231.8	1214.4
57.5°	1121.3	1119.7	1118.1	1113.4	1107.1	1102.3	1097.6	1086.5	1081.8	1072.3	1058.1
60°	977.6	976.0	972.8	971.2	966.5	955.4	955.4	947.6	931.8	922.3	908.1
62.5°	841.7	841.7	840.2	835.4	830.7	825.9	822.8	816.5	800.7	789.6	777.0
65°	723.3	721.7	717.0	709.1	705.9	705.9	694.9	690.1	677.5	666.4	652.2
67.5°	609.6	603.3	600.1	601.7	592.2	592.2	582.7	574.8	563.8	544.8	533.8
70°	499.0	495.9	492.7	489.6	488.0	481.7	476.9	467.5	456.4	442.2	424.8
72.5°	399.6	399.6	394.8	391.7	386.9	380.6	377.4	369.5	356.9	341.1	328.5
75°	304.8	304.8	304.8	298.5	295.3	292.2	282.7	277.9	263.7	254.3	238.5
77.5°	224.3	221.1	216.4	214.8	211.6	208.5	203.7	195.8	183.2	172.1	162.7
80°	142.1	146.9	142.1	142.1	134.2	131.1	129.5	120.0	115.3	105.8	97.9
82.5°	79.0	80.5	77.4	75.8	71.1	69.5	69.5	63.2	60.0	53.7	49.0
85°	28.4	30.0	28.4	28.4	25.3	26.8	25.3	23.7	20.5	17.4	15.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3
2.5°	4703.0	4699.8	4699.8	4698.3	4696.7	4696.7	4696.7	4695.1	4692.0	4692.0	4690.4
5°	4679.3	4676.2	4671.4	4668.3	4666.7	4665.1	4663.5	4661.9	4655.6	4654.1	4649.3
7.5°	4636.7	4633.5	4625.6	4622.5	4617.7	4616.1	4609.8	4606.7	4600.4	4594.0	4590.9
10°	4586.1	4578.2	4571.9	4564.0	4560.9	4556.1	4548.2	4538.8	4534.0	4526.1	4519.8
12.5°	4529.3	4519.8	4507.2	4497.7	4494.5	4486.6	4474.0	4466.1	4455.1	4442.4	4431.4
15°	4458.2	4447.2	4436.1	4418.7	4414.0	4404.5	4391.9	4376.1	4360.3	4347.7	4335.0
17.5°	4380.8	4363.5	4346.1	4327.1	4312.9	4308.2	4287.7	4265.6	4251.3	4229.2	4215.0
20°	4271.9	4248.2	4219.8	4200.8	4188.2	4174.0	4150.3	4126.6	4109.2	4090.3	4069.7
22.5°	4121.8	4099.7	4066.6	4038.1	4028.7	4008.1	3987.6	3965.5	3943.4	3922.9	3897.6
25°	3945.0	3921.3	3888.1	3859.7	3843.9	3834.4	3794.9	3772.8	3750.7	3733.3	3716.0
27.5°	3763.4	3720.7	3698.6	3654.4	3640.2	3637.0	3600.7	3577.0	3553.3	3529.6	3507.5
30°	3539.1	3505.9	3472.8	3441.2	3422.2	3411.2	3384.3	3354.3	3338.5	3322.7	3300.6
32.5°	3306.9	3276.9	3235.9	3205.9	3191.7	3175.9	3152.2	3131.7	3108.0	3090.6	3085.9
35°	3059.0	3025.8	2991.1	2969.0	2965.8	2946.9	2923.2	2905.8	2888.4	2861.6	2856.9
37.5°	2793.7	2774.7	2751.1	2719.5	2705.3	2705.3	2681.6	2668.9	2646.8	2645.2	2632.6
40°	2533.1	2525.2	2488.9	2479.4	2476.3	2454.2	2447.8	2425.7	2409.9	2408.4	2389.4
42.5°	2275.7	2255.2	2248.9	2233.1	2218.8	2215.7	2201.5	2192.0	2185.7	2176.2	2166.7
45°	2019.9	2015.1	1999.3	1988.3	1983.5	1977.2	1972.5	1953.5	1950.4	1942.5	1937.7
47.5°	1798.8	1786.1	1771.9	1759.3	1757.7	1748.2	1737.2	1737.2	1719.8	1718.2	1715.1
50°	1579.3	1569.8	1561.9	1544.5	1547.7	1535.0	1533.5	1519.2	1511.3	1505.0	1512.9
52.5°	1386.6	1367.6	1364.5	1350.3	1345.5	1347.1	1329.7	1325.0	1321.8	1315.5	1312.4
55°	1203.4	1193.9	1181.3	1171.8	1163.9	1156.0	1149.7	1149.7	1132.3	1133.9	1126.0
57.5°	1042.3	1034.4	1018.6	1004.4	1001.2	991.8	983.9	976.0	974.4	963.3	955.4
60°	898.6	884.4	863.8	857.5	848.1	840.2	832.3	822.8	818.1	810.2	795.9
62.5°	764.4	740.7	732.8	720.1	709.1	704.3	691.7	680.7	672.8	661.7	650.7
65°	636.4	619.1	604.9	590.6	589.1	576.4	565.4	555.9	540.1	530.6	510.1
67.5°	519.6	503.8	488.0	473.8	462.7	459.6	442.2	431.1	420.1	401.1	383.8
70°	412.2	396.4	383.8	366.4	361.6	349.0	336.4	325.3	306.4	289.0	274.8
72.5°	314.3	296.9	282.7	270.1	262.2	251.1	238.5	225.8	206.9	189.5	176.9
75°	224.3	211.6	197.4	184.8	178.5	172.1	157.9	143.7	131.1	113.7	102.7
77.5°	151.6	139.0	126.3	115.3	107.4	102.7	93.2	82.1	71.1	61.6	53.7
80°	88.4	80.5	71.1	61.6	60.0	55.3	47.4	41.1	34.7	30.0	23.7
82.5°	42.6	37.9	31.6	26.8	23.7	22.1	19.0	15.8	12.6	11.1	11.1
85°	12.6	11.1	9.5	7.9	6.3	6.3	4.7	4.7	4.7	4.7	4.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3
2.5°	4685.6	4684.1	4682.5	4680.9	4677.7	4677.7	4673.0	4669.8	4669.8	4666.7	4665.1
5°	4644.6	4639.8	4638.3	4635.1	4631.9	4630.4	4624.0	4622.5	4619.3	4616.1	4616.1
7.5°	4586.1	4579.8	4573.5	4570.3	4568.8	4564.0	4560.9	4559.3	4554.6	4551.4	4545.1
10°	4508.8	4504.0	4496.1	4493.0	4489.8	4486.6	4478.8	4474.0	4472.4	4469.3	4466.1
12.5°	4418.7	4412.4	4404.5	4398.2	4395.1	4390.3	4382.4	4377.7	4377.7	4371.4	4371.4
15°	4322.4	4312.9	4298.7	4292.4	4290.8	4281.3	4275.0	4268.7	4260.8	4257.7	4257.7
17.5°	4199.2	4183.4	4170.8	4170.8	4164.5	4155.0	4145.5	4140.8	4136.1	4129.7	4126.6
20°	4053.9	4042.9	4028.7	4028.7	4014.5	4011.3	4001.8	4000.2	3989.2	3990.8	3986.0
22.5°	3878.6	3872.3	3864.4	3858.1	3850.2	3840.7	3836.0	3837.6	3832.8	3831.3	3829.7
25°	3701.8	3684.4	3674.9	3671.8	3668.6	3660.7	3657.5	3656.0	3656.0	3651.2	3652.8
27.5°	3498.0	3485.4	3472.8	3477.5	3471.2	3466.5	3463.3	3458.6	3461.7	3460.1	3461.7
30°	3289.6	3273.8	3265.9	3269.0	3267.5	3254.8	3261.2	3259.6	3261.2	3261.2	3264.3
32.5°	3070.1	3059.0	3057.4	3059.0	3044.8	3046.4	3040.1	3049.5	3051.1	3060.6	3052.7
35°	2847.4	2841.1	2830.0	2828.4	2830.0	2828.4	2828.4	2834.8	2833.2	2842.7	2839.5
37.5°	2618.4	2615.2	2604.2	2607.3	2601.0	2612.1	2615.2	2612.1	2623.1	2620.0	2618.4
40°	2394.1	2389.4	2383.1	2395.7	2387.8	2381.5	2392.6	2383.1	2386.2	2395.7	2395.7
42.5°	2166.7	2158.8	2158.8	2158.8	2157.3	2157.3	2162.0	2166.7	2163.6	2165.2	2177.8
45°	1937.7	1936.2	1931.4	1934.6	1933.0	1940.9	1940.9	1944.1	1950.4	1956.7	1953.5
47.5°	1716.6	1713.5	1718.2	1715.1	1716.6	1711.9	1715.1	1724.5	1732.4	1721.4	1732.4
50°	1509.8	1503.4	1501.9	1506.6	1505.0	1503.4	1506.6	1506.6	1503.4	1503.4	1514.5
52.5°	1312.4	1306.0	1301.3	1309.2	1304.5	1306.0	1299.7	1299.7	1302.9	1299.7	1295.0
55°	1127.6	1122.8	1116.5	1119.7	1111.8	1110.2	1103.9	1103.9	1099.2	1096.0	1086.5
57.5°	950.7	947.6	933.3	931.8	933.3	922.3	911.2	906.5	893.9	890.7	889.1
60°	794.4	777.0	769.1	759.6	753.3	748.6	735.9	728.0	709.1	698.0	696.4
62.5°	631.7	623.8	614.3	600.1	597.0	581.2	568.5	548.0	538.5	524.3	510.1
65°	500.6	480.1	465.9	458.0	445.3	431.1	416.9	394.8	383.8	366.4	352.2
67.5°	366.4	349.0	330.1	323.7	312.7	295.3	281.1	262.2	252.7	236.9	232.1
70°	251.1	235.3	221.1	211.6	203.7	186.4	172.1	165.8	156.3	153.2	153.2
72.5°	161.1	146.9	131.1	126.3	120.0	110.5	101.1	97.9	101.1	99.5	99.5
75°	90.0	82.1	71.1	66.3	66.3	63.2	61.6	61.6	61.6	61.6	61.6
77.5°	45.8	41.1	37.9	36.3	36.3	36.3	37.9	37.9	37.9	39.5	37.9
80°	22.1	20.5	20.5	20.5	22.1	22.1	22.1	22.1	22.1	23.7	22.1
82.5°	11.1	11.1	11.1	11.1	11.1	11.1	12.6	12.6	12.6	12.6	12.6
85°	4.7	4.7	4.7	4.7	6.3	6.3	6.3	6.3	6.3	6.3	6.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P683875

CATALOG NUMBER: LX6C100D010 EX6C1009030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3	4698.3
2.5°	4663.5	4660.4	4660.4	4658.8	4658.8	4658.8	4658.8	4660.4
5°	4613.0	4611.4	4611.4	4608.3	4608.3	4608.3	4608.3	4608.3
7.5°	4545.1	4541.9	4543.5	4540.3	4540.3	4541.9	4540.3	4538.8
10°	4461.4	4459.8	4461.4	4461.4	4458.2	4456.6	4458.2	4459.8
12.5°	4366.6	4365.0	4361.9	4363.5	4363.5	4361.9	4360.3	4357.2
15°	4256.1	4254.5	4252.9	4251.3	4249.8	4251.3	4249.8	4246.6
17.5°	4126.6	4126.6	4125.0	4123.4	4121.8	4118.7	4120.3	4125.0
20°	3987.6	3986.0	3982.9	3984.4	3978.1	3975.0	3976.6	3981.3
22.5°	3828.1	3823.4	3826.5	3821.8	3821.8	3823.4	3821.8	3818.6
25°	3654.4	3648.1	3651.2	3652.8	3652.8	3651.2	3649.6	3651.2
27.5°	3461.7	3466.5	3466.5	3463.3	3468.0	3461.7	3464.9	3466.5
30°	3264.3	3259.6	3258.0	3264.3	3273.8	3265.9	3265.9	3267.5
32.5°	3060.6	3054.3	3054.3	3057.4	3055.8	3055.8	3062.2	3054.3
35°	2842.7	2845.8	2833.2	2841.1	2844.2	2841.1	2842.7	2842.7
37.5°	2623.1	2620.0	2620.0	2620.0	2624.7	2624.7	2627.9	2626.3
40°	2406.8	2400.5	2398.9	2402.0	2395.7	2400.5	2400.5	2395.7
42.5°	2173.0	2174.6	2182.5	2174.6	2176.2	2174.6	2171.5	2169.9
45°	1956.7	1961.4	1958.3	1956.7	1958.3	1952.0	1953.5	1958.3
47.5°	1727.7	1737.2	1727.7	1734.0	1732.4	1729.3	1726.1	1719.8
50°	1512.9	1516.1	1514.5	1512.9	1511.3	1509.8	1501.9	1497.1
52.5°	1293.4	1293.4	1293.4	1293.4	1277.6	1285.5	1282.4	1272.9
55°	1078.6	1083.4	1077.0	1077.0	1066.0	1066.0	1062.8	1064.4
57.5°	871.7	867.0	862.3	862.3	851.2	846.5	841.7	835.4
60°	679.1	674.3	668.0	660.1	649.1	649.1	645.9	633.3
62.5°	497.5	489.6	484.8	478.5	469.0	462.7	458.0	461.1
65°	341.1	333.2	326.9	326.9	326.9	323.7	322.2	322.2
67.5°	224.3	229.0	225.8	229.0	229.0	225.8	224.3	227.4
70°	154.8	154.8	153.2	153.2	153.2	153.2	151.6	153.2
72.5°	99.5	99.5	99.5	101.1	99.5	99.5	101.1	101.1
75°	63.2	63.2	63.2	64.7	63.2	63.2	64.7	63.2
77.5°	37.9	39.5	39.5	39.5	39.5	37.9	39.5	39.5
80°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
82.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
85°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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)