

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: P683905

Luminaire Tested: **LX6C100D010 EX6C1009040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683905
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 EX6C1009040 6LBLWWH
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

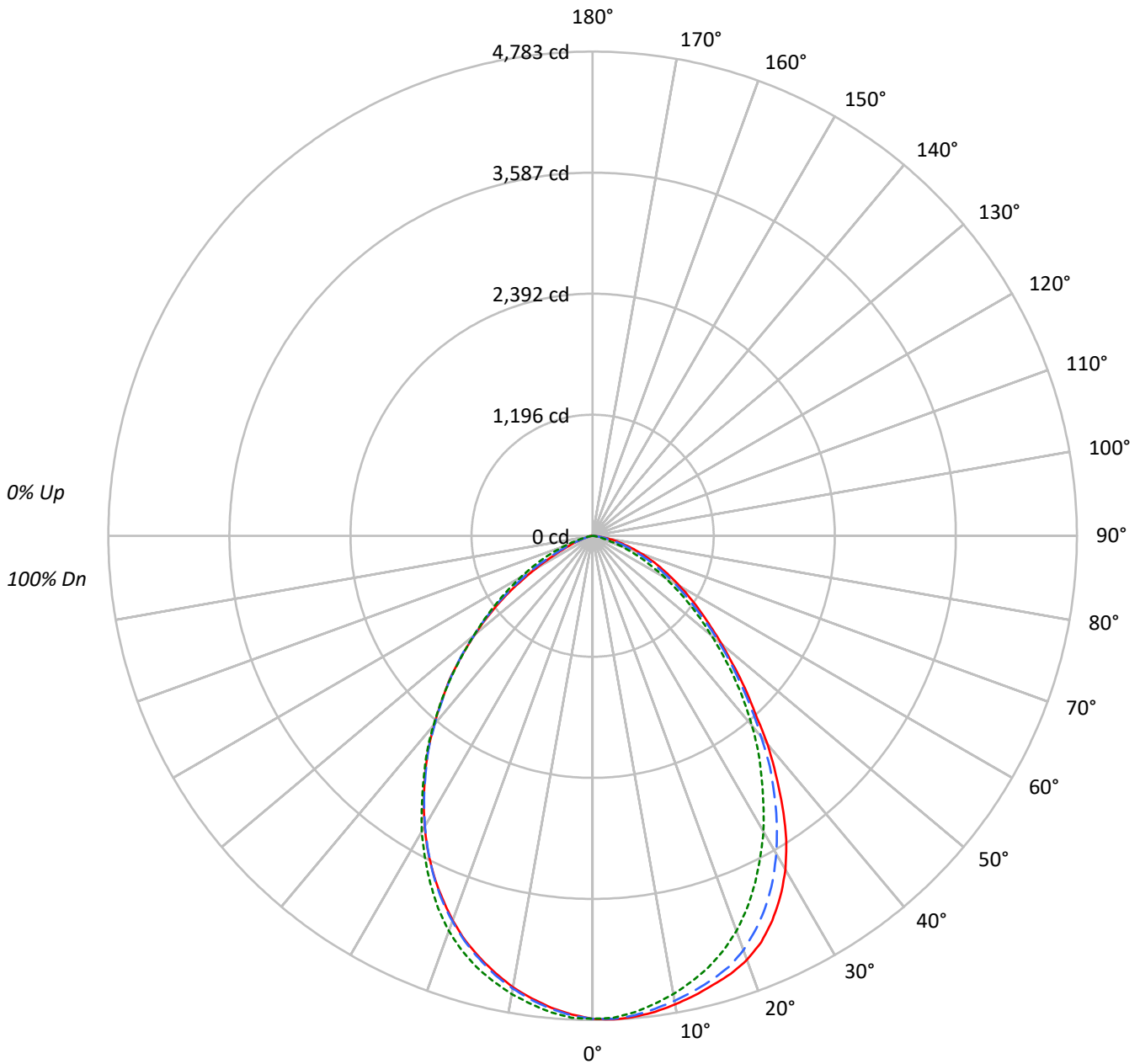
Lumens per Lamp: N/A
Luminaire Lumens: 8679.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	261569	261569	261569
5°	262480	260097	257538
10°	261674	255874	252122
15°	260694	250586	244763
20°	260108	242332	235874
25°	253781	229332	224287
30°	241119	213609	210051
35°	218852	194485	193200
40°	192017	175028	174112
45°	164629	152938	154179
50°	141710	130350	129667
55°	123857	110056	103318
60°	108851	90212	70510
65°	95289	69904	42443
70°	81232	47043	24940
75°	65555	24464	13598
80°	45555	9629	7608
85°	18178	3019	4026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	5.2
10°-20°	1248.5	14.4
20°-30°	1776.6	20.5
30°-40°	1869.9	21.5
40°-50°	1558.3	18.0
50°-60°	1052.8	12.1
60°-70°	533.8	6.2
70°-80°	172.3	2.0
80°-90°	19.8	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°	3472.1	40.0
0°-40°	5342.0	61.6
0°-60°	7953.1	91.6
0°-90°	8679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8679.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4771	4771	4771	4771	4771	
5°	4770	4755	4726	4691	4680	453
15°	4593	4544	4415	4327	4313	1298
25°	4196	4043	3791	3713	3708	1923
35°	3270	3129	2906	2877	2887	2035
45°	2124	2069	1973	1981	1989	1644
55°	1296	1233	1152	1116	1081	1166
65°	735	662	539	390	327	731
75°	310	242	116	62	64	334
85°	29	16	5	6	6	50
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°	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4
2.5°	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4781.0	4781.0	4777.8	4777.8	4776.2
5°	4769.8	4771.4	4771.4	4769.8	4769.8	4766.6	4766.6	4765.0	4760.2	4757.0	4755.3
7.5°	4742.5	4742.5	4740.9	4739.3	4737.7	4732.9	4731.3	4726.5	4723.3	4720.1	4713.6
10°	4700.8	4700.8	4699.2	4696.0	4694.4	4691.2	4691.2	4684.8	4678.4	4670.3	4665.5
12.5°	4651.1	4652.7	4649.5	4647.9	4643.1	4641.5	4638.3	4630.3	4625.4	4615.8	4607.8
15°	4593.4	4596.6	4596.6	4590.2	4585.3	4583.7	4578.9	4574.1	4562.9	4553.3	4543.6
17.5°	4537.2	4540.4	4537.2	4532.4	4527.6	4521.2	4518.0	4508.4	4493.9	4481.1	4466.7
20°	4458.6	4463.5	4457.0	4449.0	4439.4	4437.8	4433.0	4416.9	4396.1	4376.8	4356.0
22.5°	4348.0	4344.8	4340.0	4336.8	4320.7	4311.1	4304.7	4283.8	4261.4	4235.7	4210.0
25°	4195.6	4202.0	4192.4	4178.0	4170.0	4160.3	4144.3	4121.8	4101.0	4073.7	4043.2
27.5°	4016.0	4016.0	4003.2	3998.3	3980.7	3967.9	3959.9	3937.4	3910.1	3882.9	3849.2
30°	3809.1	3799.5	3799.5	3777.0	3762.6	3757.8	3749.7	3712.9	3688.8	3659.9	3626.3
32.5°	3558.9	3557.3	3550.9	3536.4	3517.2	3501.2	3501.2	3475.5	3443.4	3408.1	3387.3
35°	3270.2	3271.8	3268.6	3252.6	3252.6	3233.3	3230.1	3207.7	3182.0	3154.7	3129.1
37.5°	2971.9	2978.3	2971.9	2963.9	2959.1	2957.5	2943.0	2927.0	2907.7	2891.7	2872.5
40°	2683.2	2673.6	2676.8	2660.8	2662.4	2659.1	2652.7	2631.9	2620.7	2604.6	2583.8
42.5°	2372.1	2381.7	2384.9	2375.3	2372.1	2365.6	2372.1	2364.0	2351.2	2343.2	2323.9
45°	2123.5	2113.8	2118.7	2115.4	2117.1	2104.2	2099.4	2096.2	2091.4	2077.0	2068.9
47.5°	1876.5	1878.1	1876.5	1870.1	1866.9	1866.9	1860.4	1850.8	1850.8	1841.2	1834.8
50°	1661.6	1661.6	1664.8	1656.8	1653.5	1647.1	1648.7	1639.1	1632.7	1624.7	1619.9
52.5°	1464.3	1465.9	1459.5	1461.1	1457.9	1457.9	1451.5	1445.0	1438.6	1424.2	1421.0
55°	1295.9	1297.5	1289.5	1292.7	1283.1	1278.3	1275.0	1265.4	1265.4	1251.0	1233.3
57.5°	1138.7	1137.1	1135.5	1130.7	1124.3	1119.5	1114.7	1103.4	1098.6	1089.0	1074.6
60°	992.8	991.2	988.0	986.4	981.5	970.3	970.3	962.3	946.3	936.6	922.2
62.5°	854.8	854.8	853.2	848.4	843.6	838.8	835.6	829.2	813.1	801.9	789.1
65°	734.6	732.9	728.1	720.1	716.9	716.9	705.7	700.9	688.0	676.8	662.4
67.5°	619.1	612.7	609.5	611.1	601.4	601.4	591.8	583.8	572.6	553.3	542.1
70°	506.8	503.6	500.4	497.2	495.6	489.2	484.4	474.7	463.5	449.1	431.4
72.5°	405.8	405.8	401.0	397.7	392.9	386.5	383.3	375.3	362.5	346.4	333.6
75°	309.5	309.5	309.5	303.1	299.9	296.7	287.1	282.3	267.8	258.2	242.2
77.5°	227.7	224.5	219.7	218.1	214.9	211.7	206.9	198.9	186.0	174.8	165.2
80°	144.3	149.2	144.3	144.3	136.3	133.1	131.5	121.9	117.1	107.5	99.4
82.5°	80.2	81.8	78.6	77.0	72.2	70.6	70.6	64.2	60.9	54.5	49.7
85°	28.9	30.5	28.9	28.9	25.7	27.3	25.7	24.1	20.8	17.6	16.0
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°	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4
2.5°	4776.2	4773.0	4773.0	4771.4	4769.8	4769.8	4769.8	4768.2	4765.0	4765.0	4763.4
5°	4752.1	4748.9	4744.1	4740.9	4739.3	4737.7	4736.1	4734.5	4728.1	4726.5	4721.7
7.5°	4708.8	4705.6	4697.6	4694.4	4689.6	4688.0	4681.6	4678.4	4672.0	4665.5	4662.3
10°	4657.5	4649.5	4643.1	4635.1	4631.9	4627.0	4619.0	4609.4	4604.6	4596.6	4590.2
12.5°	4599.8	4590.2	4577.3	4567.7	4564.5	4556.5	4543.6	4535.6	4524.4	4511.6	4500.3
15°	4527.6	4516.4	4505.2	4487.5	4482.7	4473.1	4460.2	4444.2	4428.2	4415.3	4402.5
17.5°	4449.0	4431.4	4413.7	4394.5	4380.1	4375.2	4354.4	4331.9	4317.5	4295.1	4280.6
20°	4338.4	4314.3	4285.4	4266.2	4253.4	4238.9	4214.9	4190.8	4173.2	4153.9	4133.1
22.5°	4186.0	4163.5	4129.9	4101.0	4091.4	4070.5	4049.7	4027.2	4004.8	3983.9	3958.2
25°	4006.4	3982.3	3948.6	3919.8	3903.7	3894.1	3854.0	3831.5	3809.1	3791.4	3773.8
27.5°	3821.9	3778.6	3756.2	3711.3	3696.8	3693.6	3656.7	3632.7	3608.6	3584.6	3562.1
30°	3594.2	3560.5	3526.8	3494.7	3475.5	3464.3	3437.0	3406.5	3390.5	3374.5	3352.0
32.5°	3358.4	3327.9	3286.2	3255.8	3241.3	3225.3	3201.2	3180.4	3156.3	3138.7	3133.9
35°	3106.6	3072.9	3037.6	3015.2	3012.0	2992.7	2968.7	2951.0	2933.4	2906.1	2901.3
37.5°	2837.2	2817.9	2793.9	2761.8	2747.4	2747.4	2723.3	2710.5	2688.0	2686.4	2673.6
40°	2572.5	2564.5	2527.6	2518.0	2514.8	2492.3	2485.9	2463.5	2447.4	2445.8	2426.6
42.5°	2311.1	2290.3	2283.9	2267.8	2253.4	2250.2	2235.7	2226.1	2219.7	2210.1	2200.5
45°	2051.3	2046.5	2030.4	2019.2	2014.4	2008.0	2003.2	1983.9	1980.7	1972.7	1967.9
47.5°	1826.8	1813.9	1799.5	1786.7	1785.1	1775.4	1764.2	1764.2	1746.6	1745.0	1741.8
50°	1603.8	1594.2	1586.2	1568.5	1571.8	1558.9	1557.3	1542.9	1534.9	1528.4	1536.5
52.5°	1408.2	1388.9	1385.7	1371.3	1366.5	1368.1	1350.4	1345.6	1342.4	1336.0	1332.8
55°	1222.1	1212.5	1199.7	1190.0	1182.0	1174.0	1167.6	1167.6	1149.9	1151.5	1143.5
57.5°	1058.5	1050.5	1034.5	1020.0	1016.8	1007.2	999.2	991.2	989.6	978.3	970.3
60°	912.6	898.1	877.3	870.9	861.3	853.2	845.2	835.6	830.8	822.8	808.3
62.5°	776.3	752.2	744.2	731.3	720.1	715.3	702.5	691.2	683.2	672.0	660.8
65°	646.3	628.7	614.3	599.8	598.2	585.4	574.2	564.5	548.5	538.9	518.0
67.5°	527.7	511.6	495.6	481.1	469.9	466.7	449.1	437.8	426.6	407.4	389.7
70°	418.6	402.6	389.7	372.1	367.3	354.4	341.6	330.4	311.1	293.5	279.1
72.5°	319.2	301.5	287.1	274.3	266.2	255.0	242.2	229.3	210.1	192.5	179.6
75°	227.7	214.9	200.5	187.6	181.2	174.8	160.4	145.9	133.1	115.5	104.2
77.5°	154.0	141.1	128.3	117.1	109.1	104.2	94.6	83.4	72.2	62.5	54.5
80°	89.8	81.8	72.2	62.5	60.9	56.1	48.1	41.7	35.3	30.5	24.1
82.5°	43.3	38.5	32.1	27.3	24.1	22.5	19.2	16.0	12.8	11.2	11.2
85°	12.8	11.2	9.6	8.0	6.4	6.4	4.8	4.8	4.8	4.8	4.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4
2.5°	4758.6	4757.0	4755.3	4753.7	4750.5	4750.5	4745.7	4742.5	4742.5	4739.3	4737.7
5°	4716.9	4712.0	4710.4	4707.2	4704.0	4702.4	4696.0	4694.4	4691.2	4688.0	4688.0
7.5°	4657.5	4651.1	4644.7	4641.5	4639.9	4635.1	4631.9	4630.3	4625.4	4622.2	4615.8
10°	4578.9	4574.1	4566.1	4562.9	4559.7	4556.5	4548.5	4543.6	4542.0	4538.8	4535.6
12.5°	4487.5	4481.1	4473.1	4466.7	4463.5	4458.6	4450.6	4445.8	4445.8	4439.4	4439.4
15°	4389.7	4380.1	4365.6	4359.2	4357.6	4348.0	4341.6	4335.1	4327.1	4323.9	4323.9
17.5°	4264.6	4248.5	4235.7	4235.7	4229.3	4219.7	4210.0	4205.2	4200.4	4194.0	4190.8
20°	4117.0	4105.8	4091.4	4091.4	4076.9	4073.7	4064.1	4062.5	4051.3	4052.9	4048.1
22.5°	3939.0	3932.6	3924.6	3918.2	3910.1	3900.5	3895.7	3897.3	3892.5	3890.9	3889.3
25°	3759.4	3741.7	3732.1	3728.9	3725.7	3717.7	3714.5	3712.9	3712.9	3708.0	3709.7
27.5°	3552.5	3539.6	3526.8	3531.6	3525.2	3520.4	3517.2	3512.4	3515.6	3514.0	3515.6
30°	3340.8	3324.7	3316.7	3319.9	3318.3	3305.5	3311.9	3310.3	3311.9	3311.9	3315.1
32.5°	3117.8	3106.6	3105.0	3106.6	3092.2	3093.8	3087.4	3097.0	3098.6	3108.2	3100.2
35°	2891.7	2885.3	2874.1	2872.5	2874.1	2872.5	2872.5	2878.9	2877.3	2886.9	2883.7
37.5°	2659.1	2655.9	2644.7	2647.9	2641.5	2652.7	2655.9	2652.7	2664.0	2660.8	2659.1
40°	2431.4	2426.6	2420.2	2433.0	2425.0	2418.6	2429.8	2420.2	2423.4	2433.0	2433.0
42.5°	2200.5	2192.4	2192.4	2192.4	2190.8	2190.8	2195.6	2200.5	2197.2	2198.8	2211.7
45°	1967.9	1966.3	1961.5	1964.7	1963.1	1971.1	1971.1	1974.3	1980.7	1987.1	1983.9
47.5°	1743.4	1740.2	1745.0	1741.8	1743.4	1738.5	1741.8	1751.4	1759.4	1748.2	1759.4
50°	1533.3	1526.8	1525.2	1530.1	1528.4	1526.8	1530.1	1530.1	1526.8	1526.8	1538.1
52.5°	1332.8	1326.4	1321.6	1329.6	1324.8	1326.4	1320.0	1320.0	1323.2	1320.0	1315.1
55°	1145.1	1140.3	1133.9	1137.1	1129.1	1127.5	1121.1	1121.1	1116.3	1113.1	1103.4
57.5°	965.5	962.3	947.9	946.3	947.9	936.6	925.4	920.6	907.8	904.6	903.0
60°	806.7	789.1	781.1	771.4	765.0	760.2	747.4	739.4	720.1	708.9	707.3
62.5°	641.5	633.5	623.9	609.5	606.2	590.2	577.4	556.5	546.9	532.5	518.0
65°	508.4	487.6	473.1	465.1	452.3	437.8	423.4	401.0	389.7	372.1	357.7
67.5°	372.1	354.4	335.2	328.8	317.6	299.9	285.5	266.2	256.6	240.6	235.8
70°	255.0	239.0	224.5	214.9	206.9	189.3	174.8	168.4	158.8	155.6	155.6
72.5°	163.6	149.2	133.1	128.3	121.9	112.3	102.6	99.4	102.6	101.0	101.0
75°	91.4	83.4	72.2	67.4	67.4	64.2	62.5	62.5	62.5	62.5	62.5
77.5°	46.5	41.7	38.5	36.9	36.9	36.9	38.5	38.5	38.5	40.1	38.5
80°	22.5	20.8	20.8	20.8	22.5	22.5	22.5	22.5	22.5	24.1	22.5
82.5°	11.2	11.2	11.2	11.2	11.2	11.2	12.8	12.8	12.8	12.8	12.8
85°	4.8	4.8	4.8	4.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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: P683905

CATALOG NUMBER: LX6C100D010 EX6C1009040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4	4771.4
2.5°	4736.1	4732.9	4732.9	4731.3	4731.3	4731.3	4731.3	4732.9
5°	4684.8	4683.2	4683.2	4680.0	4680.0	4680.0	4680.0	4680.0
7.5°	4615.8	4612.6	4614.2	4611.0	4611.0	4612.6	4611.0	4609.4
10°	4530.8	4529.2	4530.8	4530.8	4527.6	4526.0	4527.6	4529.2
12.5°	4434.6	4433.0	4429.8	4431.4	4431.4	4429.8	4428.2	4425.0
15°	4322.3	4320.7	4319.1	4317.5	4315.9	4317.5	4315.9	4312.7
17.5°	4190.8	4190.8	4189.2	4187.6	4186.0	4182.8	4184.4	4189.2
20°	4049.7	4048.1	4044.9	4046.5	4040.0	4036.8	4038.4	4043.2
22.5°	3887.7	3882.9	3886.1	3881.3	3881.3	3882.9	3881.3	3878.1
25°	3711.3	3704.8	3708.0	3709.7	3709.7	3708.0	3706.4	3708.0
27.5°	3515.6	3520.4	3520.4	3517.2	3522.0	3515.6	3518.8	3520.4
30°	3315.1	3310.3	3308.7	3315.1	3324.7	3316.7	3316.7	3318.3
32.5°	3108.2	3101.8	3101.8	3105.0	3103.4	3103.4	3109.8	3101.8
35°	2886.9	2890.1	2877.3	2885.3	2888.5	2885.3	2886.9	2886.9
37.5°	2664.0	2660.8	2660.8	2660.8	2665.6	2665.6	2668.8	2667.2
40°	2444.2	2437.8	2436.2	2439.4	2433.0	2437.8	2437.8	2433.0
42.5°	2206.9	2208.5	2216.5	2208.5	2210.1	2208.5	2205.3	2203.7
45°	1987.1	1992.0	1988.7	1987.1	1988.7	1982.3	1983.9	1988.7
47.5°	1754.6	1764.2	1754.6	1761.0	1759.4	1756.2	1753.0	1746.6
50°	1536.5	1539.7	1538.1	1536.5	1534.9	1533.3	1525.2	1520.4
52.5°	1313.5	1313.5	1313.5	1313.5	1297.5	1305.5	1302.3	1292.7
55°	1095.4	1100.2	1093.8	1093.8	1082.6	1082.6	1079.4	1081.0
57.5°	885.3	880.5	875.7	875.7	864.5	859.7	854.8	848.4
60°	689.6	684.8	678.4	670.4	659.2	659.2	656.0	643.1
62.5°	505.2	497.2	492.4	486.0	476.3	469.9	465.1	468.3
65°	346.4	338.4	332.0	332.0	332.0	328.8	327.2	327.2
67.5°	227.7	232.6	229.3	232.6	232.6	229.3	227.7	231.0
70°	157.2	157.2	155.6	155.6	155.6	155.6	154.0	155.6
72.5°	101.0	101.0	101.0	102.6	101.0	101.0	102.6	102.6
75°	64.2	64.2	64.2	65.8	64.2	64.2	65.8	64.2
77.5°	38.5	40.1	40.1	40.1	40.1	38.5	40.1	40.1
80°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
82.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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



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













(END OF REPORT)