

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: P683890

Luminaire Tested: **LX6C100D010 EX6C1009035 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P683890
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 EX6C1009035 6LBLWWH
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

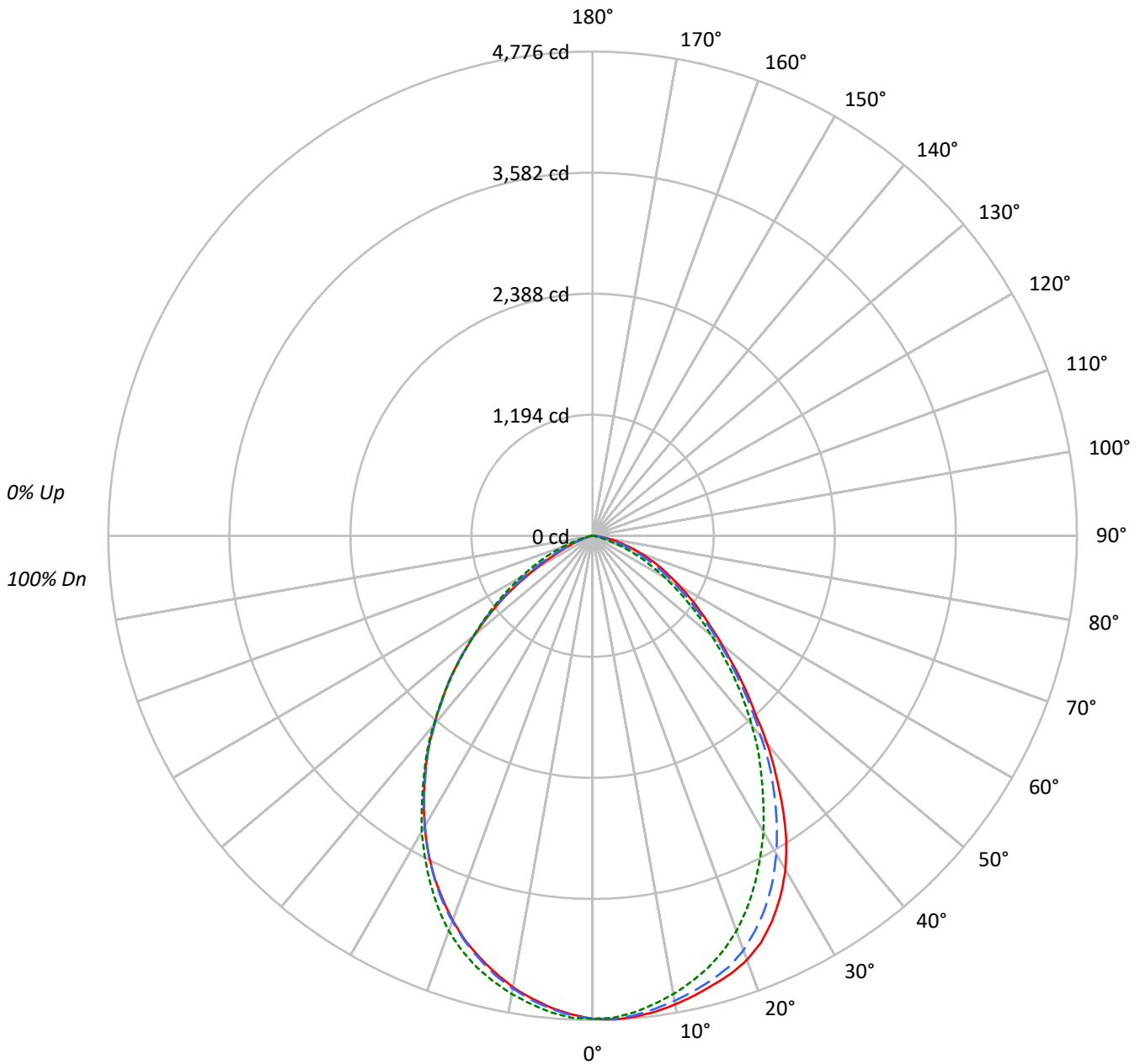
Lumens per Lamp: N/A
Luminaire Lumens: 8666.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	261174	261174	261174
5°	262084	259707	257153
10°	261284	255490	251743
15°	260302	250211	244394
20°	259723	241970	235524
25°	253400	228993	223954
30°	240759	213286	209735
35°	218524	194197	192912
40°	191731	174770	173854
45°	164381	152714	153954
50°	141496	130162	129480
55°	123675	109893	103165
60°	108686	90070	70411
65°	95146	69800	42378
70°	81119	46979	24892
75°	65470	24422	13577
80°	45492	9597	7577
85°	18115	3019	4026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.4	5.2
10°-20°	1246.6	14.4
20°-30°	1773.9	20.5
30°-40°	1867.1	21.5
40°-50°	1556.0	18.0
50°-60°	1051.2	12.1
60°-70°	533.0	6.2
70°-80°	172.0	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°	3466.9	40.0
0°-40°	5334.0	61.6
0°-60°	7941.2	91.6
0°-90°	8666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8666.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4764	4764	4764	4764	4764	
5°	4763	4748	4719	4684	4673	452
15°	4586	4537	4409	4321	4306	1296
25°	4189	4037	3786	3707	3702	1920
35°	3265	3124	2902	2873	2883	2032
45°	2120	2066	1970	1978	1986	1641
55°	1294	1232	1150	1115	1079	1165
65°	734	661	538	389	327	730
75°	309	242	115	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°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4775.5	4775.5	4775.5	4775.5	4775.5	4775.5	4773.8	4773.8	4770.6	4770.6	4769.0
5°	4762.6	4764.2	4764.2	4762.6	4762.6	4759.4	4759.4	4757.8	4753.0	4749.8	4748.2
7.5°	4735.4	4735.4	4733.8	4732.2	4730.6	4725.8	4724.2	4719.4	4716.2	4713.0	4706.6
10°	4693.8	4693.8	4692.2	4689.0	4687.4	4684.2	4684.2	4677.8	4671.4	4663.4	4658.5
12.5°	4644.1	4645.7	4642.5	4640.9	4636.1	4634.5	4631.3	4623.3	4618.5	4608.9	4600.9
15°	4586.5	4589.7	4589.7	4583.3	4578.5	4576.9	4572.1	4567.3	4556.1	4546.4	4536.8
17.5°	4530.4	4533.6	4530.4	4525.6	4520.8	4514.4	4511.2	4501.6	4487.2	4474.4	4460.0
20°	4452.0	4456.8	4450.4	4442.4	4432.7	4431.1	4426.3	4410.3	4389.5	4370.3	4349.5
22.5°	4341.5	4338.3	4333.5	4330.3	4314.2	4304.6	4298.2	4277.4	4255.0	4229.4	4203.7
25°	4189.3	4195.7	4186.1	4171.7	4163.7	4154.1	4138.1	4115.7	4094.8	4067.6	4037.2
27.5°	4010.0	4010.0	3997.2	3992.4	3974.7	3961.9	3953.9	3931.5	3904.3	3877.1	3843.4
30°	3803.4	3793.8	3793.8	3771.4	3756.9	3752.1	3744.1	3707.3	3683.3	3654.5	3620.8
32.5°	3553.6	3552.0	3545.6	3531.1	3511.9	3495.9	3495.9	3470.3	3438.3	3403.0	3382.2
35°	3265.3	3266.9	3263.7	3247.7	3247.7	3228.5	3225.3	3202.9	3177.2	3150.0	3124.4
37.5°	2967.4	2973.8	2967.4	2959.4	2954.6	2953.0	2938.6	2922.6	2903.4	2887.4	2868.2
40°	2679.2	2669.6	2672.8	2656.8	2658.4	2655.2	2648.8	2627.9	2616.7	2600.7	2579.9
42.5°	2368.5	2378.1	2381.3	2371.7	2368.5	2362.1	2368.5	2360.5	2347.7	2339.7	2320.5
45°	2120.3	2110.7	2115.5	2112.3	2113.9	2101.1	2096.3	2093.1	2088.3	2073.8	2065.8
47.5°	1873.7	1875.3	1873.7	1867.3	1864.1	1864.1	1857.7	1848.0	1848.0	1838.4	1832.0
50°	1659.1	1659.1	1662.3	1654.3	1651.1	1644.7	1646.3	1636.7	1630.3	1622.2	1617.4
52.5°	1462.1	1463.7	1457.3	1458.9	1455.7	1455.7	1449.3	1442.9	1436.5	1422.1	1418.9
55°	1294.0	1295.6	1287.5	1290.7	1281.1	1276.3	1273.1	1263.5	1263.5	1249.1	1231.5
57.5°	1137.0	1135.4	1133.8	1129.0	1122.6	1117.8	1113.0	1101.8	1097.0	1087.4	1073.0
60°	991.3	989.7	986.5	984.9	980.1	968.9	968.9	960.9	944.8	935.2	920.8
62.5°	853.6	853.6	852.0	847.2	842.3	837.5	834.3	827.9	811.9	800.7	787.9
65°	733.5	731.9	727.0	719.0	715.8	715.8	704.6	699.8	687.0	675.8	661.4
67.5°	618.2	611.7	608.5	610.1	600.5	600.5	590.9	582.9	571.7	552.5	541.3
70°	506.1	502.8	499.6	496.4	494.8	488.4	483.6	474.0	462.8	448.4	430.8
72.5°	405.2	405.2	400.4	397.2	392.3	385.9	382.7	374.7	361.9	345.9	333.1
75°	309.1	309.1	309.1	302.7	299.5	296.3	286.7	281.9	267.4	257.8	241.8
77.5°	227.4	224.2	219.4	217.8	214.6	211.4	206.6	198.6	185.8	174.6	164.9
80°	144.1	148.9	144.1	144.1	136.1	132.9	131.3	121.7	116.9	107.3	99.3
82.5°	80.1	81.7	78.5	76.9	72.1	70.5	70.5	64.1	60.9	54.4	49.6
85°	28.8	30.4	28.8	28.8	25.6	27.2	25.6	24.0	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°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4769.0	4765.8	4765.8	4764.2	4762.6	4762.6	4762.6	4761.0	4757.8	4757.8	4756.2
5°	4745.0	4741.8	4737.0	4733.8	4732.2	4730.6	4729.0	4727.4	4721.0	4719.4	4714.6
7.5°	4701.8	4698.6	4690.6	4687.4	4682.6	4681.0	4674.6	4671.4	4665.0	4658.5	4655.3
10°	4650.5	4642.5	4636.1	4628.1	4624.9	4620.1	4612.1	4602.5	4597.7	4589.7	4583.3
12.5°	4592.9	4583.3	4570.5	4560.9	4557.7	4549.6	4536.8	4528.8	4517.6	4504.8	4493.6
15°	4520.8	4509.6	4498.4	4480.8	4476.0	4466.4	4453.6	4437.5	4421.5	4408.7	4395.9
17.5°	4442.4	4424.7	4407.1	4387.9	4373.5	4368.7	4347.9	4325.5	4311.0	4288.6	4274.2
20°	4331.9	4307.8	4279.0	4259.8	4247.0	4232.6	4208.5	4184.5	4166.9	4147.7	4126.9
22.5°	4179.7	4157.3	4123.7	4094.8	4085.2	4064.4	4043.6	4021.2	3998.8	3977.9	3952.3
25°	4000.4	3976.3	3942.7	3913.9	3897.9	3888.3	3848.2	3825.8	3803.4	3785.8	3768.2
27.5°	3816.2	3773.0	3750.5	3705.7	3691.3	3688.1	3651.2	3627.2	3603.2	3579.2	3556.8
30°	3588.8	3555.2	3521.5	3489.5	3470.3	3459.1	3431.9	3401.4	3385.4	3369.4	3347.0
32.5°	3353.4	3323.0	3281.3	3250.9	3236.5	3220.5	3196.4	3175.6	3151.6	3134.0	3129.2
35°	3102.0	3068.3	3033.1	3010.7	3007.5	2988.3	2964.2	2946.6	2929.0	2901.8	2897.0
37.5°	2832.9	2813.7	2789.7	2757.7	2743.2	2743.2	2719.2	2706.4	2684.0	2682.4	2669.6
40°	2568.7	2560.7	2523.8	2514.2	2511.0	2488.6	2482.2	2459.8	2443.8	2442.2	2423.0
42.5°	2307.7	2286.8	2280.4	2264.4	2250.0	2246.8	2232.4	2222.8	2216.4	2206.8	2197.2
45°	2048.2	2043.4	2027.4	2016.2	2011.4	2005.0	2000.2	1981.0	1977.8	1969.8	1964.9
47.5°	1824.0	1811.2	1796.8	1784.0	1782.4	1772.8	1761.6	1761.6	1744.0	1742.4	1739.1
50°	1601.4	1591.8	1583.8	1566.2	1569.4	1556.6	1555.0	1540.6	1532.6	1526.2	1534.2
52.5°	1406.1	1386.8	1383.6	1369.2	1364.4	1366.0	1348.4	1343.6	1340.4	1334.0	1330.8
55°	1220.3	1210.7	1197.9	1188.3	1180.3	1172.2	1165.8	1165.8	1148.2	1149.8	1141.8
57.5°	1056.9	1048.9	1032.9	1018.5	1015.3	1005.7	997.7	989.7	988.1	976.9	968.9
60°	911.2	896.8	876.0	869.6	860.0	852.0	844.0	834.3	829.5	821.5	807.1
62.5°	775.1	751.1	743.1	730.2	719.0	714.2	701.4	690.2	682.2	671.0	659.8
65°	645.4	627.8	613.3	598.9	597.3	584.5	573.3	563.7	547.7	538.1	517.3
67.5°	526.9	510.9	494.8	480.4	469.2	466.0	448.4	437.2	426.0	406.8	389.1
70°	418.0	402.0	389.1	371.5	366.7	353.9	341.1	329.9	310.7	293.1	278.6
72.5°	318.7	301.1	286.7	273.8	265.8	254.6	241.8	229.0	209.8	192.2	179.4
75°	227.4	214.6	200.2	187.4	181.0	174.6	160.1	145.7	132.9	115.3	104.1
77.5°	153.7	140.9	128.1	116.9	108.9	104.1	94.5	83.3	72.1	62.5	54.4
80°	89.7	81.7	72.1	62.5	60.9	56.0	48.0	41.6	35.2	30.4	24.0
82.5°	43.2	38.4	32.0	27.2	24.0	22.4	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°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4751.4	4749.8	4748.2	4746.6	4743.4	4743.4	4738.6	4735.4	4735.4	4732.2	4730.6
5°	4709.8	4705.0	4703.4	4700.2	4697.0	4695.4	4689.0	4687.4	4684.2	4681.0	4681.0
7.5°	4650.5	4644.1	4637.7	4634.5	4632.9	4628.1	4624.9	4623.3	4618.5	4615.3	4608.9
10°	4572.1	4567.3	4559.3	4556.1	4552.9	4549.6	4541.6	4536.8	4535.2	4532.0	4528.8
12.5°	4480.8	4474.4	4466.4	4460.0	4456.8	4452.0	4444.0	4439.2	4439.2	4432.7	4432.7
15°	4383.1	4373.5	4359.1	4352.7	4351.1	4341.5	4335.1	4328.7	4320.6	4317.4	4317.4
17.5°	4258.2	4242.2	4229.4	4229.4	4223.0	4213.4	4203.7	4198.9	4194.1	4187.7	4184.5
20°	4110.9	4099.6	4085.2	4085.2	4070.8	4067.6	4058.0	4056.4	4045.2	4046.8	4042.0
22.5°	3933.1	3926.7	3918.7	3912.3	3904.3	3894.7	3889.9	3891.5	3886.7	3885.1	3883.5
25°	3753.7	3736.1	3726.5	3723.3	3720.1	3712.1	3708.9	3707.3	3707.3	3702.5	3704.1
27.5°	3547.2	3534.3	3521.5	3526.3	3519.9	3515.1	3511.9	3507.1	3510.3	3508.7	3510.3
30°	3335.8	3319.8	3311.7	3315.0	3313.3	3300.5	3306.9	3305.3	3306.9	3306.9	3310.1
32.5°	3113.2	3102.0	3100.4	3102.0	3087.5	3089.1	3082.7	3092.4	3094.0	3103.6	3095.6
35°	2887.4	2881.0	2869.8	2868.2	2869.8	2868.2	2868.2	2874.6	2873.0	2882.6	2879.4
37.5°	2655.2	2652.0	2640.8	2644.0	2637.5	2648.8	2652.0	2648.8	2660.0	2656.8	2655.2
40°	2427.8	2423.0	2416.6	2429.4	2421.4	2414.9	2426.2	2416.6	2419.8	2429.4	2429.4
42.5°	2197.2	2189.1	2189.1	2189.1	2187.5	2187.5	2192.4	2197.2	2194.0	2195.6	2208.4
45°	1964.9	1963.3	1958.5	1961.7	1960.1	1968.2	1968.2	1971.4	1977.8	1984.2	1981.0
47.5°	1740.7	1737.5	1742.4	1739.1	1740.7	1735.9	1739.1	1748.8	1756.8	1745.6	1756.8
50°	1531.0	1524.6	1523.0	1527.8	1526.2	1524.6	1527.8	1527.8	1524.6	1524.6	1535.8
52.5°	1330.8	1324.4	1319.6	1327.6	1322.8	1324.4	1318.0	1318.0	1321.2	1318.0	1313.2
55°	1143.4	1138.6	1132.2	1135.4	1127.4	1125.8	1119.4	1119.4	1114.6	1111.4	1101.8
57.5°	964.1	960.9	946.4	944.8	946.4	935.2	924.0	919.2	906.4	903.2	901.6
60°	805.5	787.9	779.9	770.3	763.9	759.1	746.3	738.3	719.0	707.8	706.2
62.5°	640.6	632.6	623.0	608.5	605.3	589.3	576.5	555.7	546.1	531.7	517.3
65°	507.7	486.8	472.4	464.4	451.6	437.2	422.8	400.4	389.1	371.5	357.1
67.5°	371.5	353.9	334.7	328.3	317.1	299.5	285.1	265.8	256.2	240.2	235.4
70°	254.6	238.6	224.2	214.6	206.6	189.0	174.6	168.1	158.5	155.3	155.3
72.5°	163.3	148.9	132.9	128.1	121.7	112.1	102.5	99.3	102.5	100.9	100.9
75°	91.3	83.3	72.1	67.3	67.3	64.1	62.5	62.5	62.5	62.5	62.5
77.5°	46.4	41.6	38.4	36.8	36.8	36.8	38.4	38.4	38.4	40.0	38.4
80°	22.4	20.8	20.8	20.8	22.4	22.4	22.4	22.4	22.4	24.0	22.4
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: P683890

CATALOG NUMBER: LX6C100D010 EX6C1009035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4729.0	4725.8	4725.8	4724.2	4724.2	4724.2	4724.2	4725.8
5°	4677.8	4676.2	4676.2	4673.0	4673.0	4673.0	4673.0	4673.0
7.5°	4608.9	4605.7	4607.3	4604.1	4604.1	4605.7	4604.1	4602.5
10°	4524.0	4522.4	4524.0	4524.0	4520.8	4519.2	4520.8	4522.4
12.5°	4427.9	4426.3	4423.1	4424.7	4424.7	4423.1	4421.5	4418.3
15°	4315.8	4314.2	4312.6	4311.0	4309.4	4311.0	4309.4	4306.2
17.5°	4184.5	4184.5	4182.9	4181.3	4179.7	4176.5	4178.1	4182.9
20°	4043.6	4042.0	4038.8	4040.4	4034.0	4030.8	4032.4	4037.2
22.5°	3881.9	3877.1	3880.3	3875.4	3875.4	3877.1	3875.4	3872.2
25°	3705.7	3699.3	3702.5	3704.1	3704.1	3702.5	3700.9	3702.5
27.5°	3510.3	3515.1	3515.1	3511.9	3516.7	3510.3	3513.5	3515.1
30°	3310.1	3305.3	3303.7	3310.1	3319.8	3311.7	3311.7	3313.3
32.5°	3103.6	3097.2	3097.2	3100.4	3098.8	3098.8	3105.2	3097.2
35°	2882.6	2885.8	2873.0	2881.0	2884.2	2881.0	2882.6	2882.6
37.5°	2660.0	2656.8	2656.8	2656.8	2661.6	2661.6	2664.8	2663.2
40°	2440.6	2434.2	2432.6	2435.8	2429.4	2434.2	2434.2	2429.4
42.5°	2203.6	2205.2	2213.2	2205.2	2206.8	2205.2	2202.0	2200.4
45°	1984.2	1989.0	1985.8	1984.2	1985.8	1979.4	1981.0	1985.8
47.5°	1752.0	1761.6	1752.0	1758.4	1756.8	1753.6	1750.4	1744.0
50°	1534.2	1537.4	1535.8	1534.2	1532.6	1531.0	1523.0	1518.2
52.5°	1311.6	1311.6	1311.6	1311.6	1295.6	1303.6	1300.4	1290.7
55°	1093.8	1098.6	1092.2	1092.2	1081.0	1081.0	1077.8	1079.4
57.5°	884.0	879.2	874.4	874.4	863.2	858.4	853.6	847.2
60°	688.6	683.8	677.4	669.4	658.2	658.2	655.0	642.2
62.5°	504.4	496.4	491.6	485.2	475.6	469.2	464.4	467.6
65°	345.9	337.9	331.5	331.5	331.5	328.3	326.7	326.7
67.5°	227.4	232.2	229.0	232.2	232.2	229.0	227.4	230.6
70°	156.9	156.9	155.3	155.3	155.3	155.3	153.7	155.3
72.5°	100.9	100.9	100.9	102.5	100.9	100.9	102.5	102.5
75°	64.1	64.1	64.1	65.7	64.1	64.1	65.7	64.1
77.5°	38.4	40.0	40.0	40.0	40.0	38.4	40.0	40.0
80°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
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)