

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: P684566

Luminaire Tested: **LX6C75D010 EX6C759027 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C75D010 EX6C759027 6LCSWH
Description: 6 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

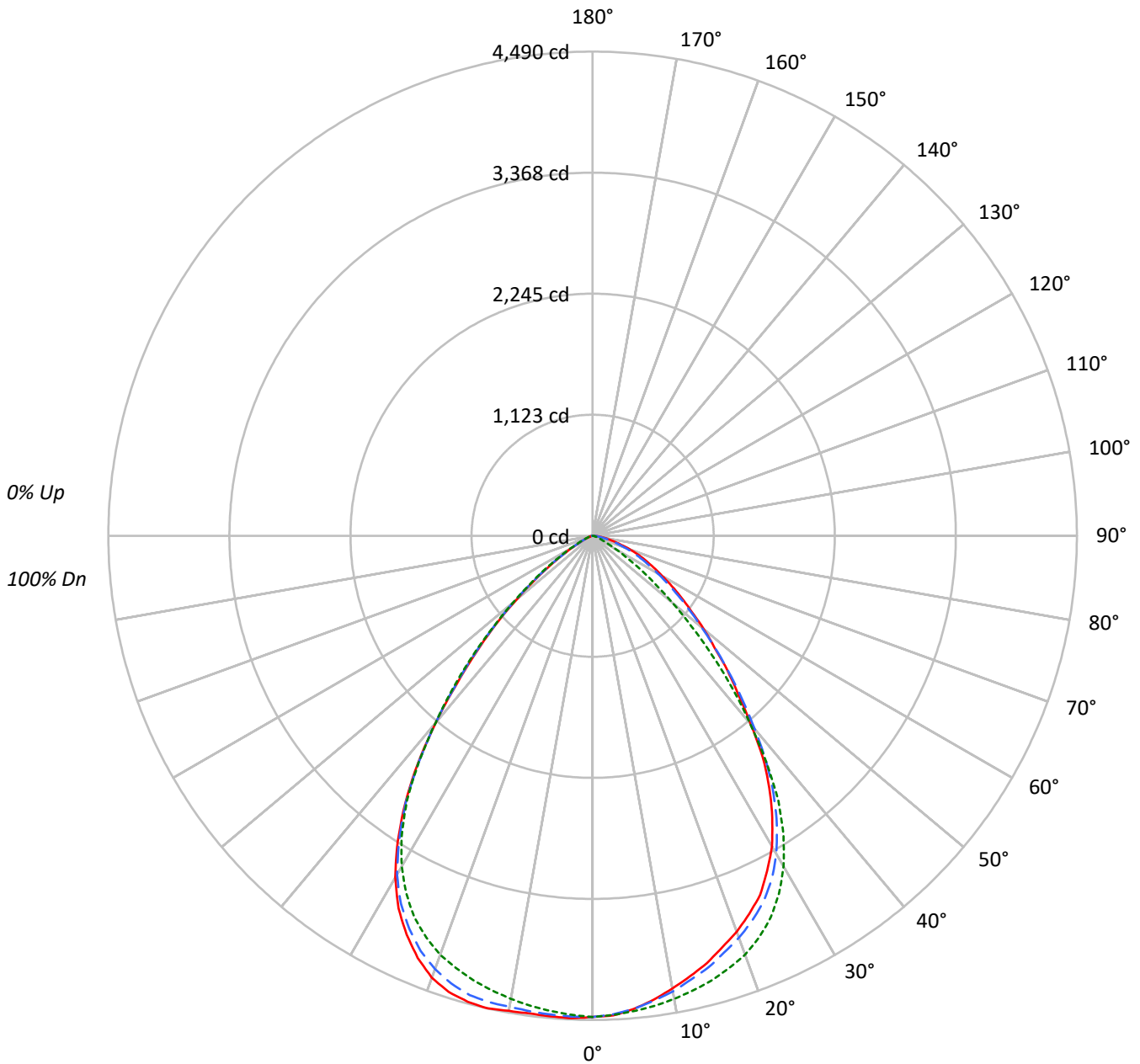
Lumens per Lamp: N/A
Luminaire Lumens: 7487.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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								
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64								
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58								
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52								
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47								
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43								
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40								
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	244651	244651	244651
5°	242317	243500	246175
10°	237326	242714	249021
15°	232782	242260	253889
20°	227957	241159	254367
25°	222339	236354	246782
30°	210513	224148	231656
35°	191172	200910	202710
40°	163156	162376	161610
45°	137053	121586	117834
50°	114461	82283	78147
55°	96331	50483	45848
60°	81550	26599	23046
65°	70617	13983	11169
70°	58728	8639	6043
75°	43400	5719	3431
80°	34032	3378	1736
85°	27172	3459	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.6	5.6
10°-20°	1204.2	16.1
20°-30°	1778.3	23.8
30°-40°	1832.7	24.5
40°-50°	1265.8	16.9
50°-60°	623.9	8.3
60°-70°	252.8	3.4
70°-80°	90.1	1.2
80°-90°	18.6	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°	3403.1	45.5
0°-40°	5235.8	69.9
0°-60°	7125.5	95.2
0°-90°	7487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7487.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4463	4463	4463	4463	4463	
5°	4403	4403	4425	4457	4474	416
15°	4102	4145	4269	4409	4474	1155
25°	3676	3746	3908	4021	4080	1680
35°	2857	2927	3002	3018	3029	1770
45°	1768	1778	1568	1547	1520	1366
55°	1008	970	528	496	480	911
65°	544	490	108	86	86	541
75°	205	172	27	16	16	230
85°	43	32	6	0	0	53
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°	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8
2.5°	4451.8	4435.8	4446.6	4424.9	4451.8	4424.9	4430.4	4435.8	4430.4	4435.8	4441.1
5°	4403.4	4387.2	4403.4	4376.5	4403.4	4387.2	4387.2	4392.7	4392.7	4397.9	4403.4
7.5°	4338.8	4322.5	4338.8	4311.8	4344.0	4328.0	4328.0	4338.8	4333.3	4338.8	4349.5
10°	4263.4	4241.7	4257.9	4241.7	4274.1	4252.4	4263.4	4263.4	4263.4	4279.4	4290.3
12.5°	4182.5	4160.8	4182.5	4155.5	4187.8	4171.7	4177.0	4193.2	4198.5	4209.4	4214.7
15°	4101.6	4074.7	4085.4	4069.2	4101.6	4085.4	4090.9	4112.4	4112.4	4128.6	4144.8
17.5°	3999.3	3977.6	3999.3	3977.6	4004.5	3993.8	4004.5	4020.8	4020.8	4037.0	4053.0
20°	3907.5	3886.0	3902.2	3886.0	3918.4	3902.2	3907.5	3929.1	3934.4	3950.6	3966.8
22.5°	3794.4	3778.1	3788.9	3772.9	3805.1	3794.4	3799.8	3821.3	3826.8	3837.5	3864.5
25°	3675.8	3643.4	3659.6	3648.8	3681.3	3665.0	3675.8	3697.3	3708.2	3724.2	3745.9
27.5°	3503.3	3487.1	3497.8	3497.8	3524.8	3508.8	3514.1	3535.7	3551.8	3568.0	3594.9
30°	3325.6	3298.6	3309.3	3314.6	3336.3	3325.6	3336.3	3357.8	3363.3	3384.7	3406.2
32.5°	3099.2	3088.2	3109.9	3099.2	3109.9	3109.9	3115.2	3131.4	3142.1	3153.1	3180.0
35°	2856.6	2835.1	2856.6	2845.8	2872.8	2856.6	2872.8	2889.0	2889.0	2910.5	2926.7
37.5°	2592.5	2565.5	2576.3	2576.3	2587.0	2581.7	2581.7	2608.7	2614.0	2630.2	2646.4
40°	2279.9	2269.0	2290.7	2285.2	2290.7	2290.7	2296.0	2312.2	2322.9	2328.4	2333.9
42.5°	1999.6	2004.9	2010.4	2010.4	2010.4	2010.4	2010.4	2031.9	2026.6	2042.8	2048.1
45°	1767.8	1746.3	1757.0	1751.8	1767.8	1751.8	1767.8	1784.0	1773.2	1789.5	1778.5
47.5°	1530.6	1530.6	1530.6	1525.4	1536.1	1530.6	1541.4	1546.8	1546.8	1546.8	1541.4
50°	1342.1	1325.9	1331.2	1331.2	1336.7	1331.2	1342.1	1347.4	1347.4	1336.7	1315.2
52.5°	1158.7	1153.4	1153.4	1164.2	1164.2	1158.7	1158.7	1158.7	1158.7	1142.7	1131.8
55°	1007.9	997.2	1002.5	1002.5	1002.5	1002.5	1007.9	1002.5	1002.5	986.2	970.2
57.5°	873.1	862.4	862.4	862.4	867.7	862.4	862.4	862.4	856.9	840.7	819.2
60°	743.8	738.4	743.8	743.8	749.1	743.8	743.8	743.8	733.1	716.9	695.2
62.5°	636.0	636.0	636.0	641.3	641.3	636.0	636.0	630.5	625.3	603.6	582.1
65°	544.4	538.9	544.4	544.4	549.7	549.7	544.4	538.9	533.7	512.0	490.5
67.5°	452.8	447.3	452.8	452.8	458.1	452.8	452.8	452.8	436.6	425.8	404.1
70°	366.4	361.2	361.2	361.2	366.4	355.7	361.2	361.2	350.4	334.2	312.5
72.5°	280.3	280.3	280.3	280.3	280.3	280.3	274.8	274.8	264.1	247.9	237.1
75°	204.9	204.9	210.2	210.2	204.9	204.9	204.9	199.4	194.0	183.2	172.5
77.5°	151.0	151.0	151.0	151.0	145.5	145.5	145.5	140.1	134.8	129.3	118.6
80°	107.8	107.8	107.8	102.4	107.8	102.4	102.4	102.4	91.6	86.1	80.9
82.5°	75.4	70.1	70.1	70.1	70.1	70.1	70.1	64.7	64.7	59.4	53.9
85°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	37.7	32.4	32.4
87.5°	21.5	27.0	27.0	27.0	27.0	27.0	27.0	21.5	21.5	21.5	16.2
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°	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8
2.5°	4441.1	4441.1	4451.8	4435.8	4462.8	4446.6	4441.1	4468.1	4451.8	4446.6	4457.3
5°	4403.4	4408.9	4414.2	4403.4	4430.4	4414.2	4414.2	4441.1	4430.4	4424.9	4441.1
7.5°	4355.0	4360.2	4371.0	4365.7	4387.2	4376.5	4381.9	4408.9	4397.9	4397.9	4414.2
10°	4295.6	4306.3	4317.3	4317.3	4344.0	4333.3	4333.3	4365.7	4355.0	4360.2	4381.9
12.5°	4225.5	4241.7	4257.9	4263.4	4290.3	4274.1	4279.4	4317.3	4311.8	4317.3	4338.8
15°	4150.1	4171.7	4187.8	4187.8	4220.2	4204.0	4220.2	4257.9	4247.1	4268.6	4295.6
17.5°	4063.9	4085.4	4106.9	4112.4	4144.8	4133.8	4155.5	4193.2	4193.2	4204.0	4236.4
20°	3983.1	4010.0	4020.8	4037.0	4069.2	4063.9	4074.7	4117.8	4117.8	4133.8	4166.3
22.5°	3875.2	3902.2	3923.7	3939.9	3966.8	3966.8	3983.1	4020.8	4020.8	4031.5	4063.9
25°	3756.7	3788.9	3805.1	3821.3	3848.3	3842.8	3859.0	3891.4	3896.7	3907.5	3939.9
27.5°	3605.7	3632.6	3654.3	3665.0	3702.7	3681.3	3697.3	3735.2	3729.7	3740.4	3767.4
30°	3417.2	3444.1	3465.6	3465.6	3497.8	3497.8	3514.1	3530.3	3530.3	3541.0	3562.7
32.5°	3196.0	3228.5	3228.5	3244.7	3266.2	3244.7	3266.2	3287.7	3276.9	3293.1	3309.3
35°	2942.7	2958.9	2964.4	2964.4	2980.6	2975.1	2969.7	2985.9	2975.1	3002.1	3018.3
37.5°	2635.6	2657.1	2646.4	2657.1	2651.7	2635.6	2635.6	2662.6	2640.9	2646.4	2662.6
40°	2339.1	2339.1	2333.9	2306.9	2312.2	2296.0	2290.7	2296.0	2274.5	2269.0	2290.7
42.5°	2031.9	2026.6	2010.4	1972.7	1977.9	1951.0	1929.5	1929.5	1918.8	1913.3	1918.8
45°	1757.0	1740.8	1713.9	1670.9	1659.9	1638.5	1595.3	1584.5	1568.3	1568.3	1573.8
47.5°	1503.7	1482.2	1439.0	1390.6	1363.6	1336.7	1293.5	1277.3	1250.3	1239.6	1250.3
50°	1293.5	1255.8	1201.9	1131.8	1104.8	1072.6	1029.4	1002.5	975.5	964.8	959.3
52.5°	1099.5	1045.6	991.7	905.6	883.9	851.7	792.3	765.3	738.4	716.9	716.9
55°	932.3	883.9	808.5	727.6	695.2	663.0	603.6	565.9	538.9	528.2	517.4
57.5°	781.5	727.6	657.5	571.4	538.9	506.7	447.3	409.6	382.7	366.4	355.7
60°	657.5	598.3	528.2	452.8	415.1	382.7	323.5	285.6	258.6	242.6	231.7
62.5°	538.9	490.5	420.4	350.4	318.0	285.6	237.1	199.4	172.5	161.7	145.5
65°	452.8	404.1	339.5	280.3	253.3	220.9	178.0	145.5	124.0	107.8	97.1
67.5°	366.4	328.7	274.8	220.9	194.0	172.5	134.8	107.8	86.1	75.4	70.1
70°	291.0	253.3	210.2	167.0	151.0	129.3	102.4	75.4	64.7	53.9	48.4
72.5°	215.7	188.7	156.3	124.0	107.8	97.1	70.1	59.4	43.2	37.7	32.4
75°	156.3	134.8	113.1	86.1	75.4	70.1	53.9	37.7	32.4	27.0	21.5
77.5°	107.8	97.1	75.4	59.4	53.9	48.4	37.7	27.0	21.5	16.2	16.2
80°	70.1	59.4	48.4	37.7	37.7	32.4	21.5	16.2	16.2	10.7	10.7
82.5°	43.2	37.7	32.4	27.0	21.5	21.5	16.2	10.7	10.7	5.5	5.5
85°	27.0	21.5	16.2	16.2	10.7	10.7	10.7	5.5	5.5	5.5	5.5
87.5°	10.7	10.7	10.7	5.5	5.5	5.5	5.5	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°	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8
2.5°	4457.3	4457.3	4468.1	4451.8	4462.8	4462.8	4473.5	4451.8	4462.8	4468.1	4478.8
5°	4435.8	4441.1	4451.8	4446.6	4451.8	4451.8	4462.8	4435.8	4457.3	4457.3	4473.5
7.5°	4414.2	4414.2	4424.9	4419.6	4430.4	4435.8	4446.6	4424.9	4446.6	4446.6	4462.8
10°	4387.2	4387.2	4403.4	4397.9	4414.2	4419.6	4435.8	4414.2	4435.8	4441.1	4457.3
12.5°	4349.5	4355.0	4371.0	4371.0	4387.2	4397.9	4414.2	4403.4	4430.4	4435.8	4457.3
15°	4306.3	4317.3	4338.8	4333.3	4349.5	4365.7	4387.2	4371.0	4408.9	4419.6	4441.1
17.5°	4252.4	4263.4	4279.4	4279.4	4295.6	4306.3	4333.3	4322.5	4355.0	4360.2	4387.2
20°	4171.7	4187.8	4209.4	4204.0	4220.2	4230.9	4252.4	4241.7	4274.1	4284.8	4311.8
22.5°	4074.7	4085.4	4101.6	4101.6	4117.8	4128.6	4150.1	4133.8	4166.3	4171.7	4193.2
25°	3945.4	3956.1	3966.8	3972.3	3988.3	3993.8	4004.5	3993.8	4020.8	4026.2	4053.0
27.5°	3778.1	3783.6	3799.8	3799.8	3810.6	3815.8	3832.1	3810.6	3848.3	3848.3	3864.5
30°	3578.7	3573.4	3594.9	3584.2	3594.9	3594.9	3611.1	3600.4	3627.4	3616.6	3632.6
32.5°	3314.6	3325.6	3325.6	3314.6	3336.3	3330.8	3330.8	3320.1	3336.3	3341.6	3352.3
35°	3007.6	3023.6	3023.6	3029.0	3034.5	3018.3	3023.6	2991.3	3018.3	3023.6	3029.0
37.5°	2673.3	2657.1	2667.9	2651.7	2678.6	2646.4	2646.4	2624.9	2646.4	2646.4	2651.7
40°	2290.7	2285.2	2296.0	2285.2	2279.9	2274.5	2263.7	2247.5	2269.0	2258.3	2274.5
42.5°	1929.5	1924.0	1924.0	1913.3	1908.0	1908.0	1897.3	1886.3	1881.1	1881.1	1908.0
45°	1557.6	1568.3	1557.6	1552.3	1563.1	1552.3	1557.6	1536.1	1546.8	1536.1	1546.8
47.5°	1245.1	1250.3	1239.6	1228.8	1245.1	1228.8	1228.8	1212.6	1234.3	1234.3	1223.4
50°	964.8	959.3	948.5	959.3	954.0	954.0	954.0	937.8	948.5	932.3	943.3
52.5°	711.4	706.1	706.1	700.7	706.1	700.7	700.7	695.2	695.2	689.9	695.2
55°	517.4	512.0	501.2	501.2	501.2	506.7	501.2	496.0	496.0	490.5	496.0
57.5°	350.4	339.5	339.5	339.5	339.5	334.2	334.2	328.7	334.2	328.7	334.2
60°	226.4	226.4	215.7	215.7	215.7	215.7	215.7	210.2	215.7	215.7	215.7
62.5°	140.1	140.1	134.8	129.3	134.8	129.3	129.3	129.3	134.8	129.3	134.8
65°	91.6	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
67.5°	64.7	59.4	59.4	59.4	59.4	59.4	59.4	53.9	59.4	59.4	59.4
70°	43.2	43.2	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
72.5°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
75°	21.5	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
77.5°	16.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
80°	10.7	10.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
85°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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: P684566

CATALOG NUMBER: LX6C75D010 EX6C759027 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8	4462.8
2.5°	4462.8	4468.1	4457.3	4462.8	4451.8	4462.8	4468.1	4478.8
5°	4451.8	4457.3	4446.6	4457.3	4446.6	4457.3	4462.8	4473.5
7.5°	4441.1	4451.8	4441.1	4451.8	4441.1	4451.8	4457.3	4468.1
10°	4441.1	4457.3	4446.6	4462.8	4446.6	4457.3	4468.1	4473.5
12.5°	4441.1	4457.3	4451.8	4462.8	4457.3	4468.1	4478.8	4489.5
15°	4430.4	4446.6	4435.8	4451.8	4446.6	4451.8	4473.5	4473.5
17.5°	4371.0	4387.2	4387.2	4397.9	4397.9	4414.2	4424.9	4435.8
20°	4295.6	4311.8	4306.3	4322.5	4322.5	4338.8	4349.5	4360.2
22.5°	4182.5	4204.0	4198.5	4214.7	4209.4	4220.2	4241.7	4236.4
25°	4037.0	4063.9	4058.4	4069.2	4063.9	4063.9	4074.7	4079.9
27.5°	3859.0	3875.2	3869.8	3880.7	3869.8	3880.7	3891.4	3896.7
30°	3627.4	3638.1	3632.6	3638.1	3632.6	3643.4	3648.8	3659.6
32.5°	3347.0	3363.3	3347.0	3357.8	3352.3	3352.3	3374.0	3363.3
35°	3012.8	3018.3	3023.6	3023.6	3012.8	3018.3	3029.0	3029.0
37.5°	2640.9	2667.9	2635.6	2651.7	2646.4	2646.4	2646.4	2662.6
40°	2253.0	2258.3	2247.5	2247.5	2247.5	2242.0	2263.7	2258.3
42.5°	1886.3	1891.8	1886.3	1870.3	1875.6	1875.6	1891.8	1870.3
45°	1530.6	1541.4	1536.1	1536.1	1525.4	1525.4	1530.6	1519.9
47.5°	1212.6	1223.4	1207.4	1212.6	1201.9	1212.6	1207.4	1218.1
50°	921.6	932.3	927.1	932.3	932.3	921.6	937.8	916.3
52.5°	689.9	695.2	689.9	684.4	679.2	679.2	689.9	684.4
55°	490.5	485.0	485.0	485.0	490.5	490.5	485.0	479.7
57.5°	328.7	328.7	323.5	323.5	328.7	318.0	323.5	318.0
60°	210.2	210.2	210.2	210.2	204.9	210.2	210.2	210.2
62.5°	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3
65°	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
67.5°	53.9	59.4	59.4	59.4	53.9	53.9	53.9	53.9
70°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
72.5°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
75°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
77.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
82.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	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)