

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: P685105

Luminaire Tested: **LX6C55D010 EX6559040 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C55D010 EX6559040 6LCSWLI
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

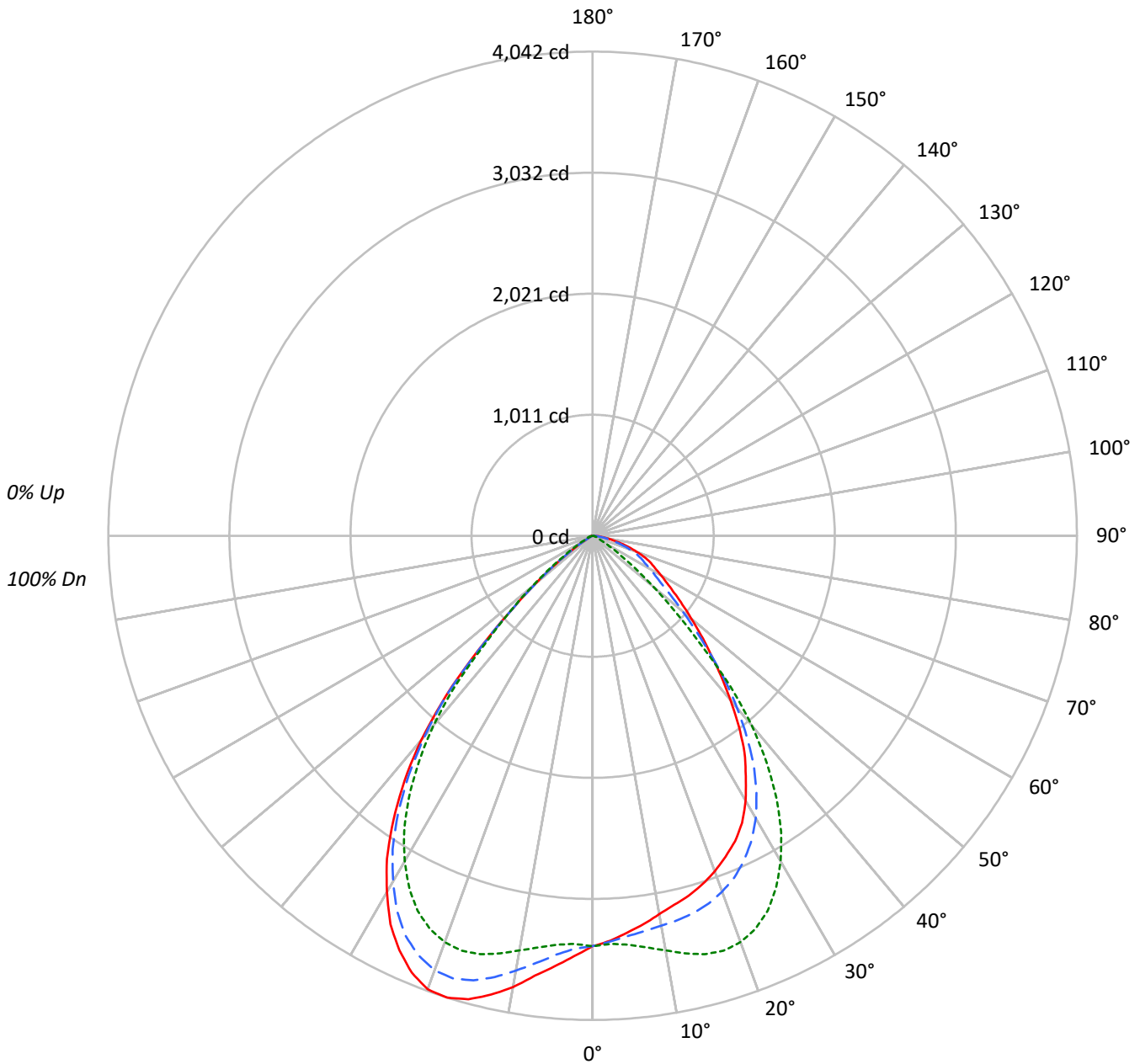
Lumens per Lamp: N/A
Luminaire Lumens: 6263.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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

TEST NUMBER: P685105

CATALOG NUMBER: LX6C55D010 EX6559040 6LCSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P685105

CATALOG NUMBER: LX6C55D010 EX6559040 6LCSWLI

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	187836	187836	187836
5°	182962	188553	198464
10°	178509	195654	212978
15°	176426	205240	227362
20°	173895	210590	235045
25°	170205	209032	230832
30°	161740	198644	217306
35°	147974	179100	194003
40°	127990	147913	159162
45°	107934	97018	104119
50°	91630	56152	52808
55°	79519	26924	20348
60°	71825	12565	5022
65°	69683	7212	1699
70°	62478	5786	1571
75°	51342	4173	699
80°	38231	2052	0
85°	32959	0	0



TEST NUMBER: P685105

CATALOG NUMBER: LX6C55D010 EX6559040 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	5.3
10°-20°	1008.6	16.1
20°-30°	1541.1	24.6
30°-40°	1611.8	25.7
40°-50°	1045.6	16.7
50°-60°	415.2	6.6
60°-70°	196.9	3.1
70°-80°	93.7	1.5
80°-90°	19.1	0.3
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°	2880.7	46.0
0°-40°	4492.5	71.7
0°-60°	5953.3	95.1
0°-90°	6263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6263.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3426	3426	3426	3426	3426	
5°	3325	3354	3426	3512	3606	314
15°	3109	3259	3616	3842	4006	876
25°	2814	2991	3456	3688	3816	1288
35°	2211	2345	2676	2833	2899	1367
45°	1392	1379	1251	1327	1343	1083
55°	832	708	282	220	213	754
65°	537	445	56	13	13	525
75°	242	196	20	6	3	261
85°	52	33	0	0	0	61
90°	0	0	0	0	0	



TEST NUMBER: P685105

CATALOG NUMBER: LX6C55D010 EX6559040 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4
2.5°	3383.8	3390.3	3354.3	3344.5	3370.7	3380.4	3383.8	3373.9	3377.2	3390.3	3390.3
5°	3324.8	3331.3	3298.6	3288.7	3314.9	3321.6	3331.3	3328.1	3338.0	3357.5	3354.3
7.5°	3269.1	3279.0	3242.9	3229.9	3262.6	3279.0	3285.5	3285.5	3298.6	3324.8	3328.1
10°	3206.8	3220.0	3187.3	3180.6	3216.7	3233.1	3236.4	3242.9	3262.6	3298.6	3305.1
12.5°	3154.5	3167.6	3144.7	3134.8	3174.1	3190.5	3197.0	3210.2	3233.1	3279.0	3285.5
15°	3108.6	3118.4	3092.2	3085.7	3125.0	3144.7	3147.9	3167.6	3197.0	3249.4	3259.3
17.5°	3049.6	3056.2	3036.6	3030.0	3069.3	3088.9	3092.2	3115.1	3151.2	3203.6	3220.0
20°	2980.8	2987.5	2967.8	2961.2	3000.5	3023.4	3026.7	3046.4	3088.9	3144.7	3161.0
22.5°	2898.9	2912.1	2889.2	2882.6	2922.0	2941.5	2951.4	2967.8	3010.4	3066.0	3088.9
25°	2813.9	2813.9	2797.5	2794.2	2830.2	2853.1	2849.8	2872.7	2915.3	2971.1	2990.7
27.5°	2702.4	2699.1	2682.7	2679.5	2718.8	2738.5	2731.9	2754.9	2794.2	2849.8	2869.5
30°	2555.1	2561.6	2538.7	2532.0	2564.9	2597.7	2594.3	2617.2	2656.5	2709.0	2722.1
32.5°	2378.1	2384.7	2381.5	2371.6	2401.0	2417.4	2427.3	2443.6	2476.4	2532.0	2545.2
35°	2211.1	2201.2	2188.2	2188.2	2217.6	2243.8	2234.0	2253.7	2286.4	2342.1	2345.4
37.5°	2004.7	2001.4	1994.9	1988.4	2021.1	2027.6	2030.9	2044.0	2073.5	2119.3	2112.8
40°	1788.5	1791.7	1788.5	1775.4	1795.1	1821.3	1818.0	1824.6	1850.7	1883.5	1873.7
42.5°	1585.4	1585.4	1585.4	1572.3	1595.2	1608.4	1614.9	1611.6	1618.1	1647.7	1634.5
45°	1392.2	1395.4	1392.2	1388.9	1392.2	1398.7	1392.2	1388.9	1388.9	1398.7	1379.0
47.5°	1225.1	1225.1	1215.3	1205.4	1215.3	1218.5	1208.8	1198.9	1195.6	1192.4	1159.6
50°	1074.4	1071.1	1067.9	1051.5	1061.3	1064.6	1051.5	1044.9	1031.8	1015.5	976.2
52.5°	943.5	940.1	936.8	920.4	927.1	930.3	917.2	904.1	887.7	874.6	825.5
55°	832.0	828.7	828.7	819.0	812.3	819.0	805.8	796.0	773.1	756.7	707.6
57.5°	737.0	737.0	730.5	720.6	723.9	723.9	710.9	697.7	678.0	658.4	619.2
60°	655.1	655.1	655.1	645.3	645.3	645.3	638.7	625.7	609.3	589.6	550.3
62.5°	589.6	589.6	586.3	576.6	579.8	579.8	573.2	560.2	543.8	530.6	491.4
65°	537.2	537.2	537.2	527.4	527.4	530.6	524.1	511.1	497.9	481.5	445.4
67.5°	471.7	468.5	468.5	461.8	465.1	468.5	461.8	452.1	435.7	425.9	393.1
70°	389.8	393.1	396.3	386.6	389.8	389.8	386.6	376.7	366.9	357.0	327.6
72.5°	317.8	317.8	314.4	311.2	311.2	314.4	307.9	298.1	291.5	285.0	262.0
75°	242.4	239.1	242.4	235.9	235.9	235.9	229.2	226.0	222.7	212.9	196.5
77.5°	176.9	173.6	173.6	167.1	170.4	170.4	167.1	160.5	153.9	150.7	137.5
80°	121.1	121.1	121.1	117.9	117.9	114.6	114.6	111.4	104.8	101.6	95.0
82.5°	81.9	81.9	81.9	78.7	78.7	78.7	75.3	72.0	68.8	65.5	59.0
85°	52.4	52.4	52.4	49.1	49.1	49.1	45.8	45.8	42.6	39.3	32.7
87.5°	29.4	29.4	29.4	26.2	26.2	26.2	26.2	26.2	22.9	19.7	16.4
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: P685105

CATALOG NUMBER: LX6C55D010 EX6559040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4
2.5°	3413.2	3367.4	3396.8	3396.8	3387.1	3413.2	3429.7	3442.7	3439.4	3410.0	3406.7
5°	3387.1	3347.7	3380.4	3383.8	3373.9	3410.0	3432.9	3449.3	3452.6	3426.4	3429.7
7.5°	3367.4	3334.6	3377.2	3390.3	3387.1	3419.8	3446.1	3472.2	3485.3	3465.6	3469.0
10°	3357.5	3331.3	3377.2	3396.8	3400.1	3436.2	3475.5	3511.6	3527.9	3514.8	3524.6
12.5°	3344.5	3328.1	3380.4	3410.0	3423.0	3459.1	3508.2	3550.8	3577.1	3570.5	3590.1
15°	3331.3	3318.3	3380.4	3423.0	3439.4	3472.2	3527.9	3590.1	3619.7	3616.3	3642.6
17.5°	3298.6	3295.4	3360.9	3406.7	3429.7	3469.0	3521.3	3596.6	3626.2	3632.7	3665.5
20°	3246.2	3246.2	3318.3	3367.4	3393.6	3429.7	3495.2	3567.2	3603.3	3609.8	3645.9
22.5°	3174.1	3180.6	3249.4	3298.6	3338.0	3364.1	3432.9	3508.2	3541.0	3550.8	3590.1
25°	3079.2	3085.7	3151.2	3200.3	3242.9	3272.3	3338.0	3406.7	3446.1	3455.8	3485.3
27.5°	2954.7	2967.8	3030.0	3079.2	3115.1	3134.8	3203.6	3275.7	3305.1	3314.9	3344.5
30°	2810.5	2813.9	2876.0	2918.6	2954.7	2971.1	3030.0	3105.4	3128.3	3138.1	3180.6
32.5°	2633.6	2630.4	2689.4	2728.7	2758.1	2777.8	2840.0	2889.2	2912.1	2928.5	2951.4
35°	2420.7	2417.4	2460.0	2505.9	2528.8	2535.4	2597.7	2650.0	2663.2	2676.2	2705.8
37.5°	2181.6	2181.6	2217.6	2240.6	2266.7	2276.6	2306.1	2365.1	2388.0	2384.7	2407.6
40°	1929.4	1916.3	1942.4	1965.5	1972.0	1975.2	2004.7	2050.5	2066.9	2066.9	2083.3
42.5°	1664.1	1644.4	1647.7	1660.7	1667.3	1644.4	1664.1	1693.5	1683.6	1696.8	1700.1
45°	1382.4	1352.8	1339.8	1310.2	1316.9	1293.8	1280.8	1287.3	1284.1	1251.4	1257.9
47.5°	1153.0	1100.7	1077.6	1035.2	1025.3	999.1	982.7	953.2	927.1	927.1	910.6
50°	959.8	907.4	861.5	812.3	796.0	773.1	737.0	697.7	678.0	658.4	642.1
52.5°	805.8	750.2	694.4	642.1	619.2	589.6	540.5	501.2	465.1	445.4	425.9
55°	681.3	619.2	560.2	504.4	475.0	445.4	396.3	350.5	307.9	281.7	265.3
57.5°	586.3	527.4	465.1	406.2	379.9	347.2	294.9	245.6	206.3	176.9	160.5
60°	517.6	458.6	403.0	340.7	314.4	281.7	226.0	180.1	140.8	114.6	95.0
62.5°	458.6	406.2	347.2	291.5	265.3	232.6	180.1	134.3	98.2	72.0	55.6
65°	416.0	363.6	314.4	258.8	235.9	203.1	153.9	111.4	78.7	55.6	39.3
67.5°	366.9	321.0	271.8	226.0	203.1	176.9	131.0	95.0	65.5	45.8	32.7
70°	307.9	271.8	229.2	186.8	170.4	147.4	108.1	78.7	52.4	36.1	26.2
72.5°	245.6	216.2	183.4	150.7	137.5	114.6	88.4	62.3	39.3	26.2	19.7
75°	186.8	163.7	137.5	114.6	101.6	88.4	65.5	45.8	29.4	19.7	13.1
77.5°	127.8	117.9	98.2	78.7	72.0	62.3	42.6	29.4	19.7	13.1	6.5
80°	88.4	78.7	65.5	52.4	45.8	39.3	26.2	19.7	9.8	6.5	3.3
82.5°	55.6	45.8	39.3	32.7	29.4	22.9	16.4	9.8	6.5	3.3	3.3
85°	29.4	26.2	22.9	16.4	16.4	13.1	9.8	6.5	3.3	0.0	0.0
87.5°	16.4	13.1	9.8	6.5	6.5	3.3	3.3	3.3	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



TEST NUMBER: P685105

CATALOG NUMBER: LX6C55D010 EX6559040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4
2.5°	3446.1	3446.1	3442.7	3482.0	3436.2	3482.0	3459.1	3482.0	3449.3	3446.1	3449.3
5°	3472.2	3482.0	3485.3	3521.3	3478.8	3534.5	3514.8	3534.5	3511.6	3518.1	3527.9
7.5°	3524.6	3541.0	3537.8	3583.6	3541.0	3603.3	3590.1	3619.7	3596.6	3603.3	3616.3
10°	3583.6	3603.3	3606.5	3652.4	3613.0	3688.4	3672.0	3704.7	3685.2	3695.0	3711.4
12.5°	3652.4	3675.3	3678.6	3731.0	3688.4	3767.0	3757.2	3789.9	3773.6	3783.4	3803.1
15°	3704.7	3737.5	3744.1	3796.5	3750.7	3832.5	3826.0	3868.6	3842.4	3858.8	3875.1
17.5°	3731.0	3760.5	3773.6	3822.7	3783.4	3865.3	3858.8	3894.8	3875.1	3891.5	3911.2
20°	3714.6	3750.7	3760.5	3809.6	3770.4	3852.2	3842.4	3878.5	3858.8	3871.8	3891.5
22.5°	3655.6	3691.7	3704.7	3750.7	3714.6	3789.9	3786.7	3819.5	3793.3	3809.6	3826.0
25°	3550.8	3590.1	3596.6	3639.2	3600.0	3678.6	3672.0	3708.1	3688.4	3698.2	3721.1
27.5°	3400.1	3446.1	3455.8	3491.9	3462.4	3527.9	3527.9	3557.4	3534.5	3534.5	3557.4
30°	3220.0	3265.8	3272.3	3301.9	3275.7	3334.6	3338.0	3367.4	3331.3	3351.0	3354.3
32.5°	3000.5	3030.0	3049.6	3075.8	3036.6	3111.9	3102.1	3125.0	3105.4	3105.4	3121.8
35°	2735.2	2771.3	2781.1	2813.9	2781.1	2840.0	2840.0	2853.1	2833.4	2833.4	2859.7
37.5°	2447.0	2473.2	2476.4	2509.1	2482.9	2532.0	2528.8	2538.7	2519.0	2532.0	2532.0
40°	2109.5	2129.2	2135.7	2152.1	2148.9	2184.8	2181.6	2188.2	2178.3	2181.6	2188.2
42.5°	1716.5	1742.6	1755.8	1768.8	1749.3	1798.4	1788.5	1798.4	1795.1	1798.4	1808.2
45°	1264.4	1284.1	1293.8	1297.2	1290.6	1320.1	1343.0	1323.4	1326.6	1320.1	1333.2
47.5°	913.9	917.2	910.6	930.3	913.9	927.1	933.6	936.8	917.2	913.9	927.1
50°	625.7	642.1	619.2	628.9	625.7	638.7	632.2	635.5	615.8	625.7	619.2
52.5°	416.0	412.7	406.2	409.5	403.0	403.0	403.0	409.5	396.3	389.8	383.3
55°	252.3	245.6	232.6	229.2	229.2	232.6	226.0	219.5	219.5	216.2	216.2
57.5°	147.4	137.5	131.0	127.8	121.1	117.9	114.6	114.6	108.1	108.1	108.1
60°	81.9	72.0	65.5	59.0	59.0	55.6	52.4	49.1	49.1	49.1	45.8
62.5°	42.6	36.1	29.4	26.2	26.2	22.9	19.7	19.7	19.7	19.7	16.4
65°	29.4	22.9	19.7	16.4	16.4	13.1	13.1	13.1	13.1	13.1	13.1
67.5°	22.9	19.7	16.4	13.1	13.1	13.1	9.8	9.8	9.8	9.8	9.8
70°	19.7	13.1	13.1	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
72.5°	13.1	13.1	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	9.8	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0
80°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P685105

CATALOG NUMBER: LX6C55D010 EX6559040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4	3426.4
2.5°	3478.8	3475.5	3478.8	3485.3	3472.2	3511.6	3491.9	3511.6
5°	3554.2	3557.4	3560.7	3570.5	3554.2	3603.3	3577.1	3606.5
7.5°	3652.4	3655.6	3658.9	3668.8	3658.9	3708.1	3678.6	3704.7
10°	3754.0	3760.5	3760.5	3776.9	3767.0	3812.8	3793.3	3826.0
12.5°	3848.9	3855.4	3862.1	3871.8	3865.3	3914.4	3898.0	3924.3
15°	3924.3	3937.3	3940.6	3953.7	3947.2	3999.6	3979.9	4006.1
17.5°	3960.3	3973.4	3973.4	3989.8	3983.2	4038.9	4012.7	4042.2
20°	3940.6	3950.5	3953.7	3970.2	3963.5	4019.3	3993.1	4029.0
22.5°	3878.5	3881.7	3885.0	3901.4	3898.0	3947.2	3924.3	3947.2
25°	3763.7	3773.6	3770.4	3783.4	3783.4	3822.7	3796.5	3816.2
27.5°	3600.0	3609.8	3609.8	3626.2	3613.0	3652.4	3626.2	3655.6
30°	3400.1	3410.0	3403.5	3416.5	3403.5	3442.7	3423.0	3432.9
32.5°	3161.0	3161.0	3164.2	3167.6	3161.0	3197.0	3177.4	3197.0
35°	2876.0	2882.6	2885.9	2889.2	2882.6	2908.8	2885.9	2898.9
37.5°	2555.1	2571.4	2568.1	2571.4	2561.6	2594.3	2574.6	2581.3
40°	2211.1	2211.1	2207.7	2214.4	2204.5	2230.8	2217.6	2224.1
42.5°	1811.4	1821.3	1808.2	1824.6	1798.4	1834.3	1821.3	1811.4
45°	1359.5	1346.3	1343.0	1346.3	1336.4	1339.8	1349.6	1343.0
47.5°	927.1	927.1	920.4	910.6	923.8	927.1	913.9	913.9
50°	622.4	622.4	615.8	612.5	619.2	615.8	609.3	619.2
52.5°	396.3	383.3	383.3	389.8	383.3	376.7	386.6	379.9
55°	216.2	209.7	209.7	216.2	209.7	209.7	206.3	212.9
57.5°	104.8	108.1	104.8	104.8	104.8	104.8	101.6	104.8
60°	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
62.5°	19.7	19.7	16.4	16.4	16.4	16.4	16.4	16.4
65°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
67.5°	9.8	9.8	9.8	9.8	9.8	13.1	9.8	9.8
70°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
72.5°	9.8	9.8	13.1	13.1	13.1	13.1	13.1	13.1
75°	6.5	6.5	6.5	3.3	3.3	3.3	3.3	3.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)