

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: P685100

Luminaire Tested: **LX6C55D010 EX6559035 6LCSWLI**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P685100  
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 EX6559035 6LCSWLI  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

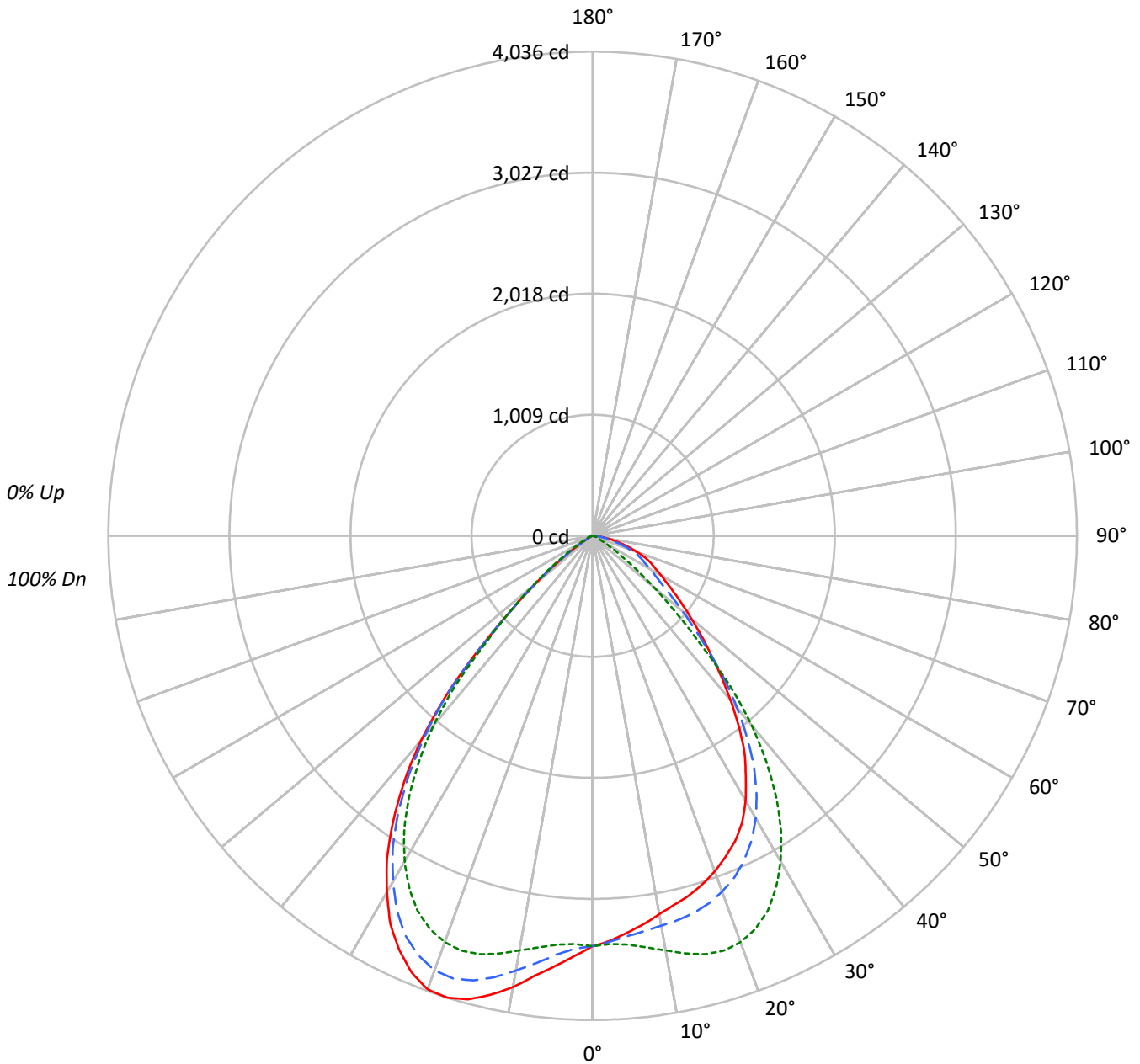
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6254.0 lumens  
Efficiency: N/A  
Efficacy: 97.9 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<sub>in</sub>): 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	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°	187562	187562	187562
5°	182698	188278	198178
10°	178253	195370	212671
15°	176170	204944	227039
20°	173644	210287	234707
25°	169957	208730	230499
30°	161506	198360	216995
35°	147759	178845	193729
40°	127811	147698	158933
45°	107779	96878	103964
50°	91502	56075	52732
55°	79405	26886	20319
60°	71727	12554	5011
65°	69579	7212	1686
70°	62382	5770	1571
75°	51279	4173	699
80°	38199	2052	0
85°	32959	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.5	5.3
10°-20°	1007.2	16.1
20°-30°	1538.9	24.6
30°-40°	1609.5	25.7
40°-50°	1044.1	16.7
50°-60°	414.6	6.6
60°-70°	196.7	3.1
70°-80°	93.5	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°	2876.5	46.0
0°-40°	4486.1	71.7
0°-60°	5944.7	95.1
0°-90°	6254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6254.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3421	3421	3421	3421	3421	
5°	3320	3350	3421	3506	3601	313
15°	3104	3255	3611	3837	4000	875
25°	2810	2986	3451	3683	3811	1287
35°	2208	2342	2672	2829	2895	1365
45°	1390	1377	1250	1325	1341	1082
55°	831	706	281	219	213	753
65°	536	445	56	13	13	524
75°	242	196	20	6	3	261
85°	52	33	0	0	0	61
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°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3378.9	3385.4	3349.5	3339.7	3365.9	3375.6	3378.9	3369.1	3372.4	3385.4	3385.4
5°	3320.0	3326.5	3293.8	3284.0	3310.2	3316.8	3326.5	3323.3	3333.2	3352.7	3349.5
7.5°	3264.4	3274.3	3238.3	3225.2	3257.9	3274.3	3280.8	3280.8	3293.8	3320.0	3323.3
10°	3202.2	3215.4	3182.7	3176.1	3212.1	3228.4	3231.7	3238.3	3257.9	3293.8	3300.3
12.5°	3150.0	3163.0	3140.2	3130.3	3169.5	3185.9	3192.4	3205.6	3228.4	3274.3	3280.8
15°	3104.1	3114.0	3087.8	3081.3	3120.5	3140.2	3143.3	3163.0	3192.4	3244.8	3254.6
17.5°	3045.2	3051.8	3032.2	3025.7	3064.9	3084.5	3087.8	3110.6	3146.7	3199.0	3215.4
20°	2976.5	2983.2	2963.5	2957.0	2996.2	3019.1	3022.4	3042.0	3084.5	3140.2	3156.5
22.5°	2894.8	2907.9	2885.1	2878.4	2917.8	2937.3	2947.1	2963.5	3006.0	3061.6	3084.5
25°	2809.8	2809.8	2793.5	2790.1	2826.2	2849.0	2845.7	2868.6	2911.1	2966.8	2986.4
27.5°	2698.5	2695.2	2678.9	2675.7	2714.9	2734.6	2727.9	2750.9	2790.1	2845.7	2865.4
30°	2551.4	2557.9	2535.0	2528.4	2561.2	2593.9	2590.6	2613.5	2652.7	2705.1	2718.2
32.5°	2374.7	2381.2	2378.0	2368.2	2397.6	2413.9	2423.8	2440.1	2472.8	2528.4	2541.6
35°	2207.9	2198.1	2185.0	2185.0	2214.4	2240.6	2230.8	2250.4	2283.1	2338.7	2342.0
37.5°	2001.8	1998.5	1992.0	1985.5	2018.2	2024.7	2028.0	2041.1	2070.6	2116.3	2109.8
40°	1786.0	1789.2	1786.0	1772.8	1792.5	1818.7	1815.3	1822.0	1848.0	1880.7	1871.0
42.5°	1583.1	1583.1	1583.1	1570.1	1592.9	1606.1	1612.6	1609.3	1615.8	1645.3	1632.2
45°	1390.2	1393.4	1390.2	1386.9	1390.2	1396.7	1390.2	1386.9	1386.9	1396.7	1377.1
47.5°	1223.4	1223.4	1213.5	1203.7	1213.5	1216.7	1207.0	1197.2	1193.9	1190.7	1158.0
50°	1072.9	1069.6	1066.4	1050.0	1059.7	1063.1	1050.0	1043.4	1030.4	1014.0	974.8
52.5°	942.1	938.8	935.5	919.1	925.7	928.9	915.9	902.8	886.4	873.4	824.3
55°	830.8	827.5	827.5	817.8	811.2	817.8	804.6	794.8	771.9	755.6	706.5
57.5°	735.9	735.9	729.4	719.6	722.9	722.9	709.9	696.7	677.0	657.5	618.3
60°	654.2	654.2	654.2	644.3	644.3	644.3	637.8	624.8	608.4	588.8	549.5
62.5°	588.8	588.8	585.4	575.7	578.9	578.9	572.4	559.4	543.0	529.9	490.7
65°	536.4	536.4	536.4	526.7	526.7	529.9	523.4	510.3	497.2	480.8	444.8
67.5°	471.0	467.8	467.8	461.2	464.5	467.8	461.2	451.4	435.1	425.3	392.5
70°	389.2	392.5	395.7	386.0	389.2	389.2	386.0	376.2	366.4	356.5	327.1
72.5°	317.3	317.3	314.0	310.8	310.8	314.0	307.5	297.6	291.1	284.6	261.6
75°	242.1	238.8	242.1	235.6	235.6	235.6	228.9	225.7	222.4	212.6	196.2
77.5°	176.7	173.3	173.3	166.8	170.2	170.2	166.8	160.3	153.7	150.5	137.3
80°	121.0	121.0	121.0	117.8	117.8	114.5	114.5	111.3	104.6	101.4	94.9
82.5°	81.8	81.8	81.8	78.6	78.6	78.6	75.2	71.9	68.7	65.4	58.9
85°	52.4	52.4	52.4	49.1	49.1	49.1	45.7	45.7	42.5	39.2	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3408.3	3362.6	3391.9	3391.9	3382.2	3408.3	3424.8	3437.8	3434.5	3405.1	3401.8
5°	3382.2	3342.9	3375.6	3378.9	3369.1	3405.1	3428.0	3444.3	3447.6	3421.4	3424.8
7.5°	3362.6	3329.9	3372.4	3385.4	3382.2	3414.9	3441.1	3467.2	3480.3	3460.7	3464.0
10°	3352.7	3326.5	3372.4	3391.9	3395.3	3431.3	3470.5	3506.5	3522.9	3509.7	3519.5
12.5°	3339.7	3323.3	3375.6	3405.1	3418.1	3454.1	3503.2	3545.7	3571.9	3565.4	3585.0
15°	3326.5	3313.5	3375.6	3418.1	3434.5	3467.2	3522.9	3585.0	3614.5	3611.1	3637.3
17.5°	3293.8	3290.6	3356.0	3401.8	3424.8	3464.0	3516.2	3591.5	3621.0	3627.5	3660.2
20°	3241.6	3241.6	3313.5	3362.6	3388.7	3424.8	3490.2	3562.1	3598.1	3604.6	3640.6
22.5°	3169.5	3176.1	3244.8	3293.8	3333.2	3359.2	3428.0	3503.2	3535.9	3545.7	3585.0
25°	3074.7	3081.3	3146.7	3195.7	3238.3	3267.6	3333.2	3401.8	3441.1	3450.8	3480.3
27.5°	2950.5	2963.5	3025.7	3074.7	3110.6	3130.3	3199.0	3271.0	3300.3	3310.2	3339.7
30°	2806.5	2809.8	2871.9	2914.4	2950.5	2966.8	3025.7	3100.9	3123.8	3133.6	3176.1
32.5°	2629.8	2626.6	2685.5	2724.7	2754.1	2773.8	2835.9	2885.1	2907.9	2924.3	2947.1
35°	2417.3	2413.9	2456.5	2502.3	2525.2	2531.7	2593.9	2646.2	2659.3	2672.4	2701.9
37.5°	2178.5	2178.5	2214.4	2237.4	2263.5	2273.3	2302.8	2361.7	2384.6	2381.2	2404.1
40°	1926.6	1913.6	1939.6	1962.6	1969.1	1972.3	2001.8	2047.6	2063.9	2063.9	2080.3
42.5°	1661.7	1642.0	1645.3	1658.3	1664.9	1642.0	1661.7	1691.1	1681.2	1694.4	1697.7
45°	1380.4	1350.9	1337.8	1308.3	1315.0	1292.0	1279.0	1285.5	1282.3	1249.6	1256.1
47.5°	1151.3	1099.1	1076.1	1033.7	1023.9	997.7	981.3	951.8	925.7	925.7	909.3
50°	958.4	906.1	860.2	811.2	794.8	771.9	735.9	696.7	677.0	657.5	641.1
52.5°	804.6	749.1	693.4	641.1	618.3	588.8	539.7	500.5	464.5	444.8	425.3
55°	680.4	618.3	559.4	503.7	474.3	444.8	395.7	350.0	307.5	281.3	264.9
57.5°	585.4	526.7	464.5	405.6	379.4	346.7	294.4	245.3	206.0	176.7	160.3
60°	516.8	458.0	402.4	340.2	314.0	281.3	225.7	179.9	140.6	114.5	94.9
62.5°	458.0	405.6	346.7	291.1	264.9	232.2	179.9	134.1	98.1	71.9	55.6
65°	415.4	363.0	314.0	258.4	235.6	202.9	153.7	111.3	78.6	55.6	39.2
67.5°	366.4	320.5	271.5	225.7	202.9	176.7	130.8	94.9	65.4	45.7	32.7
70°	307.5	271.5	228.9	186.5	170.2	147.2	107.9	78.6	52.4	36.0	26.2
72.5°	245.3	215.9	183.2	150.5	137.3	114.5	88.3	62.2	39.2	26.2	19.7
75°	186.5	163.5	137.3	114.5	101.4	88.3	65.4	45.7	29.4	19.7	13.0
77.5°	127.6	117.8	98.1	78.6	71.9	62.2	42.5	29.4	19.7	13.0	6.5
80°	88.3	78.6	65.4	52.4	45.7	39.2	26.2	19.7	9.8	6.5	3.3
82.5°	55.6	45.7	39.2	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	13.0	9.8	6.5	3.3	0.0	0.0
87.5°	16.4	13.0	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3441.1	3441.1	3437.8	3477.0	3431.3	3477.0	3454.1	3477.0	3444.3	3441.1	3444.3
5°	3467.2	3477.0	3480.3	3516.2	3473.8	3529.4	3509.7	3529.4	3506.5	3513.0	3522.9
7.5°	3519.5	3535.9	3532.7	3578.4	3535.9	3598.1	3585.0	3614.5	3591.5	3598.1	3611.1
10°	3578.4	3598.1	3601.3	3647.2	3607.8	3683.1	3666.7	3699.4	3679.9	3689.7	3706.0
12.5°	3647.2	3670.0	3673.3	3725.6	3683.1	3761.6	3751.8	3784.5	3768.1	3778.0	3797.6
15°	3699.4	3732.1	3738.8	3791.0	3745.3	3827.0	3820.5	3863.0	3836.9	3853.2	3869.6
17.5°	3725.6	3755.1	3768.1	3817.2	3778.0	3859.7	3853.2	3889.2	3869.6	3885.9	3905.6
20°	3709.2	3745.3	3755.1	3804.2	3764.9	3846.7	3836.9	3872.9	3853.2	3866.2	3885.9
22.5°	3650.4	3686.4	3699.4	3745.3	3709.2	3784.5	3781.3	3814.0	3787.8	3804.2	3820.5
25°	3545.7	3585.0	3591.5	3634.0	3594.8	3673.3	3666.7	3702.7	3683.1	3692.9	3715.8
27.5°	3395.3	3441.1	3450.8	3486.8	3457.5	3522.9	3522.9	3552.3	3529.4	3529.4	3552.3
30°	3215.4	3261.1	3267.6	3297.1	3271.0	3329.9	3333.2	3362.6	3326.5	3346.2	3349.5
32.5°	2996.2	3025.7	3045.2	3071.4	3032.2	3107.5	3097.6	3120.5	3100.9	3100.9	3117.3
35°	2731.3	2767.3	2777.1	2809.8	2777.1	2835.9	2835.9	2849.0	2829.4	2829.4	2855.5
37.5°	2443.4	2469.6	2472.8	2505.5	2479.3	2528.4	2525.2	2535.0	2515.4	2528.4	2528.4
40°	2106.5	2126.1	2132.7	2149.0	2145.8	2181.7	2178.5	2185.0	2175.2	2178.5	2185.0
42.5°	1714.0	1740.1	1753.3	1766.3	1746.7	1795.8	1786.0	1795.8	1792.5	1795.8	1805.6
45°	1262.6	1282.3	1292.0	1295.3	1288.8	1318.2	1341.0	1321.5	1324.7	1318.2	1331.3
47.5°	912.6	915.9	909.3	928.9	912.6	925.7	932.3	935.5	915.9	912.6	925.7
50°	624.8	641.1	618.3	628.0	624.8	637.8	631.3	634.6	614.9	624.8	618.3
52.5°	415.4	412.1	405.6	408.9	402.4	402.4	402.4	408.9	395.7	389.2	382.7
55°	251.9	245.3	232.2	228.9	228.9	232.2	225.7	219.2	219.2	215.9	215.9
57.5°	147.2	137.3	130.8	127.6	121.0	117.8	114.5	114.5	107.9	107.9	107.9
60°	81.8	71.9	65.4	58.9	58.9	55.6	52.4	49.1	49.1	49.1	45.7
62.5°	42.5	36.0	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	13.0	13.0	13.0	13.0	13.0	13.0
67.5°	22.9	19.7	16.4	13.0	13.0	13.0	9.8	9.8	9.8	9.8	9.8
70°	19.7	13.0	13.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
72.5°	13.0	13.0	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: P685100

CATALOG NUMBER: LX6C55D010 EX6559035 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3473.8	3470.5	3473.8	3480.3	3467.2	3506.5	3486.8	3506.5
5°	3549.1	3552.3	3555.6	3565.4	3549.1	3598.1	3571.9	3601.3
7.5°	3647.2	3650.4	3653.7	3663.5	3653.7	3702.7	3673.3	3699.4
10°	3748.6	3755.1	3755.1	3771.5	3761.6	3807.4	3787.8	3820.5
12.5°	3843.4	3849.9	3856.5	3866.2	3859.7	3908.8	3892.4	3918.6
15°	3918.6	3931.6	3935.0	3948.0	3941.5	3993.9	3974.2	4000.4
17.5°	3954.6	3967.7	3967.7	3984.0	3977.5	4033.1	4006.9	4036.4
20°	3935.0	3944.8	3948.0	3964.5	3957.8	4013.5	3987.3	4023.2
22.5°	3872.9	3876.1	3879.4	3895.7	3892.4	3941.5	3918.6	3941.5
25°	3758.3	3768.1	3764.9	3778.0	3778.0	3817.2	3791.0	3810.7
27.5°	3594.8	3604.6	3604.6	3621.0	3607.8	3647.2	3621.0	3650.4
30°	3395.3	3405.1	3398.6	3411.6	3398.6	3437.8	3418.1	3428.0
32.5°	3156.5	3156.5	3159.7	3163.0	3156.5	3192.4	3172.9	3192.4
35°	2871.9	2878.4	2881.7	2885.1	2878.4	2904.6	2881.7	2894.8
37.5°	2551.4	2567.7	2564.4	2567.7	2557.9	2590.6	2570.9	2577.6
40°	2207.9	2207.9	2204.6	2211.2	2201.4	2227.6	2214.4	2220.9
42.5°	1808.8	1818.7	1805.6	1822.0	1795.8	1831.7	1818.7	1808.8
45°	1357.5	1344.4	1341.0	1344.4	1334.5	1337.8	1347.7	1341.0
47.5°	925.7	925.7	919.1	909.3	922.4	925.7	912.6	912.6
50°	621.5	621.5	614.9	611.6	618.3	614.9	608.4	618.3
52.5°	395.7	382.7	382.7	389.2	382.7	376.2	386.0	379.4
55°	215.9	209.4	209.4	215.9	209.4	209.4	206.0	212.6
57.5°	104.6	107.9	104.6	104.6	104.6	104.6	101.4	104.6
60°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
62.5°	19.7	19.7	16.4	16.4	16.4	16.4	16.4	16.4
65°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
67.5°	9.8	9.8	9.8	9.8	9.8	13.0	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	13.0	13.0	13.0	13.0	13.0	13.0
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)