

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: P685110

Luminaire Tested: **LX6C55D010 EX6559050 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P685110  
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 EX6559050 6LCSWLI  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

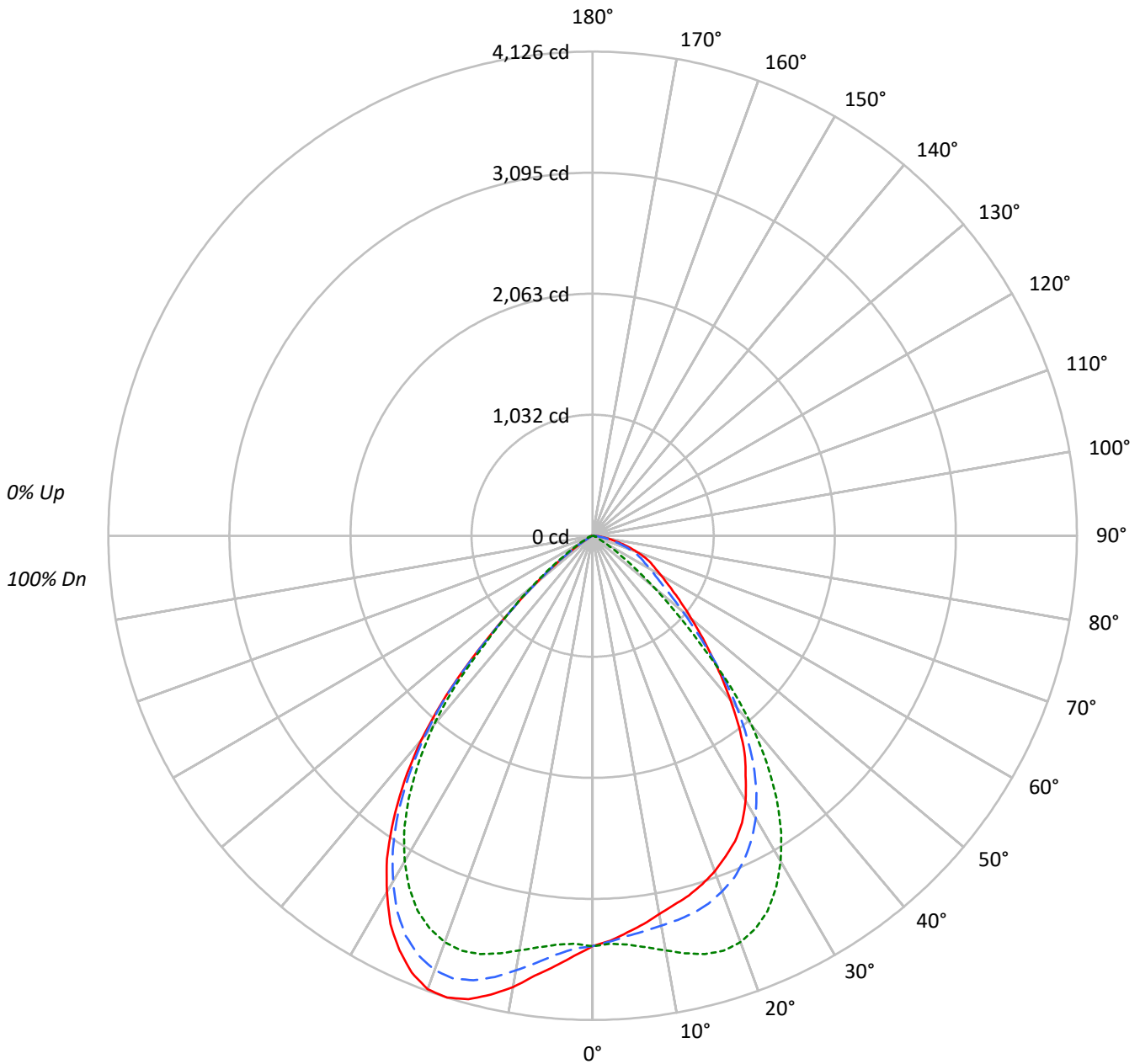
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6392.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 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<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°	191701	191701	191701
5°	186732	192433	202553
10°	182189	199685	217364
15°	180058	209468	232044
20°	177477	214930	239888
25°	173708	213339	235586
30°	165070	202740	221781
35°	151019	182787	197999
40°	130630	150961	162440
45°	110159	99010	106259
50°	93524	57312	53892
55°	81163	27478	20769
60°	73306	12828	5120
65°	71110	7368	1725
70°	63761	5898	1619
75°	52402	4257	720
80°	39020	2115	0
85°	33651	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.8	5.3
10°-20°	1029.4	16.1
20°-30°	1572.8	24.6
30°-40°	1645.0	25.7
40°-50°	1067.2	16.7
50°-60°	423.7	6.6
60°-70°	201.0	3.1
70°-80°	95.6	1.5
80°-90°	19.5	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°	2940.0	46.0
0°-40°	4585.1	71.7
0°-60°	6075.9	95.1
0°-90°	6392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3497	3497	3497	3497	3497	
5°	3393	3423	3497	3584	3681	320
15°	3173	3326	3691	3922	4089	894
25°	2872	3052	3527	3764	3895	1315
35°	2257	2394	2731	2892	2959	1396
45°	1421	1407	1277	1354	1371	1106
55°	849	722	288	224	217	769
65°	548	455	57	13	13	536
75°	247	200	20	7	3	267
85°	54	33	0	0	0	62
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°	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9
2.5°	3453.5	3460.1	3423.4	3413.4	3440.1	3450.1	3453.5	3443.4	3446.8	3460.1	3460.1
5°	3393.3	3399.9	3366.5	3356.5	3383.2	3390.0	3399.9	3396.7	3406.7	3426.7	3423.4
7.5°	3336.5	3346.5	3309.7	3296.4	3329.8	3346.5	3353.2	3353.2	3366.5	3393.3	3396.7
10°	3272.9	3286.3	3252.9	3246.1	3283.0	3299.7	3303.1	3309.7	3329.8	3366.5	3373.2
12.5°	3219.5	3232.8	3209.4	3199.4	3239.5	3256.2	3262.8	3276.3	3299.7	3346.5	3353.2
15°	3172.6	3182.7	3155.9	3149.3	3189.3	3209.4	3212.7	3232.8	3262.8	3316.4	3326.4
17.5°	3112.4	3119.1	3099.1	3092.5	3132.5	3152.5	3155.9	3179.3	3216.1	3269.6	3286.3
20°	3042.2	3049.0	3028.9	3022.2	3062.3	3085.7	3089.1	3109.2	3152.5	3209.4	3226.2
22.5°	2958.6	2972.1	2948.7	2941.9	2982.1	3002.1	3012.2	3028.9	3072.4	3129.2	3152.5
25°	2871.8	2871.8	2855.1	2851.7	2888.5	2911.9	2908.5	2931.9	2975.4	3032.3	3052.3
27.5°	2758.1	2754.7	2738.0	2734.7	2774.8	2794.9	2788.1	2811.6	2851.7	2908.5	2928.6
30°	2607.7	2614.3	2591.0	2584.2	2617.7	2651.2	2647.8	2671.1	2711.2	2764.8	2778.2
32.5°	2427.1	2433.8	2430.5	2420.5	2450.5	2467.2	2477.3	2494.0	2527.4	2584.2	2597.6
35°	2256.6	2246.6	2233.2	2233.2	2263.3	2290.0	2280.0	2300.1	2333.5	2390.3	2393.7
37.5°	2046.0	2042.6	2036.0	2029.3	2062.7	2069.4	2072.8	2086.1	2116.3	2163.0	2156.3
40°	1825.4	1828.6	1825.4	1811.9	1832.0	1858.8	1855.4	1862.2	1888.8	1922.2	1912.3
42.5°	1618.0	1618.0	1618.0	1604.7	1628.1	1641.5	1648.2	1644.8	1651.5	1681.6	1668.2
45°	1420.9	1424.2	1420.9	1417.5	1420.9	1427.6	1420.9	1417.5	1417.5	1427.6	1407.4
47.5°	1250.4	1250.4	1240.3	1230.3	1240.3	1243.6	1233.7	1223.6	1220.2	1217.0	1183.5
50°	1096.6	1093.2	1089.9	1073.2	1083.1	1086.5	1073.2	1066.4	1053.1	1036.4	996.3
52.5°	962.9	959.5	956.1	939.4	946.2	949.4	936.1	922.7	906.0	892.6	842.5
55°	849.2	845.8	845.8	835.8	829.1	835.8	822.4	812.4	789.0	772.3	722.1
57.5°	752.2	752.2	745.5	735.5	738.8	738.8	725.5	712.1	692.0	672.0	631.9
60°	668.6	668.6	668.6	658.6	658.6	658.6	651.9	638.6	621.9	601.8	561.7
62.5°	601.8	601.8	598.4	588.4	591.7	591.7	585.0	571.7	555.0	541.6	501.5
65°	548.2	548.2	548.2	538.3	538.3	541.6	534.9	521.6	508.1	491.4	454.6
67.5°	481.4	478.1	478.1	471.3	474.7	478.1	471.3	461.4	444.7	434.6	401.2
70°	397.8	401.2	404.5	394.6	397.8	397.8	394.6	384.5	374.4	364.4	334.4
72.5°	324.3	324.3	320.9	317.7	317.7	320.9	314.3	304.2	297.5	290.9	267.4
75°	247.4	244.0	247.4	240.8	240.8	240.8	234.0	230.7	227.3	217.3	200.5
77.5°	180.6	177.2	177.2	170.5	173.9	173.9	170.5	163.9	157.1	153.8	140.4
80°	123.6	123.6	123.6	120.4	120.4	117.0	117.0	113.7	106.9	103.7	97.0
82.5°	83.6	83.6	83.6	80.3	80.3	80.3	76.9	73.5	70.2	66.8	60.2
85°	53.5	53.5	53.5	50.1	50.1	50.1	46.7	46.7	43.5	40.1	33.4
87.5°	30.0	30.0	30.0	26.8	26.8	26.8	26.8	26.8	23.4	20.1	16.7
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°	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9
2.5°	3483.5	3436.8	3466.8	3466.8	3456.9	3483.5	3500.3	3513.7	3510.3	3480.2	3476.8
5°	3456.9	3416.6	3450.1	3453.5	3443.4	3480.2	3503.6	3520.3	3523.7	3496.9	3500.3
7.5°	3436.8	3403.3	3446.8	3460.1	3456.9	3490.3	3517.0	3543.7	3557.1	3537.0	3540.4
10°	3426.7	3399.9	3446.8	3466.8	3470.2	3507.0	3547.1	3583.9	3600.6	3587.2	3597.2
12.5°	3413.4	3396.7	3450.1	3480.2	3493.5	3530.4	3580.5	3624.0	3650.7	3644.1	3664.1
15°	3399.9	3386.6	3450.1	3493.5	3510.3	3543.7	3600.6	3664.1	3694.2	3690.8	3717.6
17.5°	3366.5	3363.2	3430.1	3476.8	3500.3	3540.4	3593.8	3670.7	3700.9	3707.5	3741.0
20°	3313.1	3313.1	3386.6	3436.8	3463.5	3500.3	3567.2	3640.7	3677.5	3684.2	3721.0
22.5°	3239.5	3246.1	3316.4	3366.5	3406.7	3433.4	3503.6	3580.5	3613.9	3624.0	3664.1
25°	3142.6	3149.3	3216.1	3266.2	3309.7	3339.7	3406.7	3476.8	3517.0	3527.0	3557.1
27.5°	3015.6	3028.9	3092.5	3142.6	3179.3	3199.4	3269.6	3343.1	3373.2	3383.2	3413.4
30°	2868.4	2871.8	2935.3	2978.7	3015.6	3032.3	3092.5	3169.4	3192.7	3202.8	3246.1
32.5°	2687.9	2684.6	2744.8	2784.9	2814.9	2835.0	2898.5	2948.7	2972.1	2988.8	3012.2
35°	2470.6	2467.2	2510.7	2557.6	2580.9	2587.6	2651.2	2704.6	2718.0	2731.3	2761.5
37.5°	2226.6	2226.6	2263.3	2286.8	2313.4	2323.5	2353.6	2413.8	2437.2	2433.8	2457.2
40°	1969.1	1955.8	1982.4	2005.9	2012.6	2015.9	2046.0	2092.8	2109.5	2109.5	2126.2
42.5°	1698.3	1678.2	1681.6	1694.9	1701.6	1678.2	1698.3	1728.4	1718.3	1731.8	1735.2
45°	1410.8	1380.7	1367.4	1337.2	1344.0	1320.5	1307.2	1313.8	1310.6	1277.1	1283.8
47.5°	1176.7	1123.3	1099.8	1056.5	1046.4	1019.7	1003.0	972.8	946.2	946.2	929.3
50°	979.6	926.1	879.2	829.1	812.4	789.0	752.2	712.1	692.0	672.0	655.3
52.5°	822.4	765.6	708.7	655.3	631.9	601.8	551.6	511.5	474.7	454.6	434.6
55°	695.4	631.9	571.7	514.8	484.8	454.6	404.5	357.7	314.3	287.5	270.8
57.5°	598.4	538.3	474.7	414.5	387.8	354.3	300.9	250.7	210.6	180.6	163.9
60°	528.2	468.1	411.3	347.7	320.9	287.5	230.7	183.8	143.7	117.0	97.0
62.5°	468.1	414.5	354.3	297.5	270.8	237.4	183.8	137.1	100.3	73.5	56.8
65°	424.6	371.1	320.9	264.1	240.8	207.3	157.1	113.7	80.3	56.8	40.1
67.5°	374.4	327.6	277.4	230.7	207.3	180.6	133.7	97.0	66.8	46.7	33.4
70°	314.3	277.4	234.0	190.6	173.9	150.4	110.3	80.3	53.5	36.8	26.8
72.5°	250.7	220.6	187.2	153.8	140.4	117.0	90.2	63.6	40.1	26.8	20.1
75°	190.6	167.1	140.4	117.0	103.7	90.2	66.8	46.7	30.0	20.1	13.3
77.5°	130.4	120.4	100.3	80.3	73.5	63.6	43.5	30.0	20.1	13.3	6.7
80°	90.2	80.3	66.8	53.5	46.7	40.1	26.8	20.1	10.1	6.7	3.4
82.5°	56.8	46.7	40.1	33.4	30.0	23.4	16.7	10.1	6.7	3.4	3.4
85°	30.0	26.8	23.4	16.7	16.7	13.3	10.1	6.7	3.4	0.0	0.0
87.5°	16.7	13.3	10.1	6.7	6.7	3.4	3.4	3.4	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°	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9
2.5°	3517.0	3517.0	3513.7	3553.7	3507.0	3553.7	3530.4	3553.7	3520.3	3517.0	3520.3
5°	3543.7	3553.7	3557.1	3593.8	3550.5	3607.3	3587.2	3607.3	3583.9	3590.6	3600.6
7.5°	3597.2	3613.9	3610.7	3657.4	3613.9	3677.5	3664.1	3694.2	3670.7	3677.5	3690.8
10°	3657.4	3677.5	3680.8	3727.6	3687.4	3764.3	3747.6	3781.0	3761.1	3771.1	3787.8
12.5°	3727.6	3751.0	3754.4	3807.8	3764.3	3844.6	3834.6	3868.0	3851.3	3861.3	3881.4
15°	3781.0	3814.5	3821.3	3874.7	3827.9	3911.5	3904.8	3948.3	3921.5	3938.2	3954.9
17.5°	3807.8	3838.0	3851.3	3901.4	3861.3	3944.9	3938.2	3975.1	3954.9	3971.7	3991.8
20°	3791.1	3827.9	3838.0	3888.1	3848.0	3931.6	3921.5	3958.3	3938.2	3951.6	3971.7
22.5°	3730.9	3767.7	3781.0	3827.9	3791.1	3868.0	3864.7	3898.2	3871.4	3888.1	3904.8
25°	3624.0	3664.1	3670.7	3714.2	3674.1	3754.4	3747.6	3784.4	3764.3	3774.4	3797.8
27.5°	3470.2	3517.0	3527.0	3563.8	3533.8	3600.6	3600.6	3630.6	3607.3	3607.3	3630.6
30°	3286.3	3333.1	3339.7	3369.9	3343.1	3403.3	3406.7	3436.8	3399.9	3420.0	3423.4
32.5°	3062.3	3092.5	3112.4	3139.2	3099.1	3176.0	3166.0	3189.3	3169.4	3169.4	3186.1
35°	2791.5	2828.3	2838.4	2871.8	2838.4	2898.5	2898.5	2911.9	2891.8	2891.8	2918.6
37.5°	2497.4	2524.1	2527.4	2560.8	2534.1	2584.2	2580.9	2591.0	2570.9	2584.2	2584.2
40°	2152.9	2173.1	2179.7	2196.4	2193.2	2229.8	2226.6	2233.2	2223.2	2226.6	2233.2
42.5°	1751.9	1778.5	1791.9	1805.3	1785.3	1835.4	1825.4	1835.4	1832.0	1835.4	1845.5
45°	1290.5	1310.6	1320.5	1323.9	1317.2	1347.3	1370.6	1350.7	1353.9	1347.3	1360.7
47.5°	932.7	936.1	929.3	949.4	932.7	946.2	952.8	956.1	936.1	932.7	946.2
50°	638.6	655.3	631.9	641.8	638.6	651.9	645.2	648.6	628.5	638.6	631.9
52.5°	424.6	421.2	414.5	417.9	411.3	411.3	411.3	417.9	404.5	397.8	391.2
55°	257.5	250.7	237.4	234.0	234.0	237.4	230.7	224.0	224.0	220.6	220.6
57.5°	150.4	140.4	133.7	130.4	123.6	120.4	117.0	117.0	110.3	110.3	110.3
60°	83.6	73.5	66.8	60.2	60.2	56.8	53.5	50.1	50.1	50.1	46.7
62.5°	43.5	36.8	30.0	26.8	26.8	23.4	20.1	20.1	20.1	20.1	16.7
65°	30.0	23.4	20.1	16.7	16.7	13.3	13.3	13.3	13.3	13.3	13.3
67.5°	23.4	20.1	16.7	13.3	13.3	13.3	10.1	10.1	10.1	10.1	10.1
70°	20.1	13.3	13.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	13.3	13.3	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	10.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0
80°	3.4	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: P685110

CATALOG NUMBER: LX6C55D010 EX6559050 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9
2.5°	3550.5	3547.1	3550.5	3557.1	3543.7	3583.9	3563.8	3583.9
5°	3627.4	3630.6	3634.0	3644.1	3627.4	3677.5	3650.7	3680.8
7.5°	3727.6	3730.9	3734.3	3744.4	3734.3	3784.4	3754.4	3781.0
10°	3831.3	3838.0	3838.0	3854.7	3844.6	3891.4	3871.4	3904.8
12.5°	3928.2	3934.8	3941.6	3951.6	3944.9	3995.0	3978.3	4005.1
15°	4005.1	4018.4	4021.8	4035.1	4028.5	4082.0	4061.9	4088.6
17.5°	4041.9	4055.2	4055.2	4071.9	4065.3	4122.1	4095.3	4125.5
20°	4021.8	4031.8	4035.1	4052.0	4045.2	4102.1	4075.3	4112.0
22.5°	3958.3	3961.6	3965.0	3981.7	3978.3	4028.5	4005.1	4028.5
25°	3841.2	3851.3	3848.0	3861.3	3861.3	3901.4	3874.7	3894.8
27.5°	3674.1	3684.2	3684.2	3700.9	3687.4	3727.6	3700.9	3730.9
30°	3470.2	3480.2	3473.6	3486.9	3473.6	3513.7	3493.5	3503.6
32.5°	3226.2	3226.2	3229.4	3232.8	3226.2	3262.8	3242.9	3262.8
35°	2935.3	2941.9	2945.3	2948.7	2941.9	2968.7	2945.3	2958.6
37.5°	2607.7	2624.4	2621.0	2624.4	2614.3	2647.8	2627.7	2634.5
40°	2256.6	2256.6	2253.2	2260.0	2250.0	2276.7	2263.3	2269.9
42.5°	1848.7	1858.8	1845.5	1862.2	1835.4	1872.1	1858.8	1848.7
45°	1387.5	1374.0	1370.6	1374.0	1364.0	1367.4	1377.4	1370.6
47.5°	946.2	946.2	939.4	929.3	942.8	946.2	932.7	932.7
50°	635.2	635.2	628.5	625.1	631.9	628.5	621.9	631.9
52.5°	404.5	391.2	391.2	397.8	391.2	384.5	394.6	387.8
55°	220.6	214.0	214.0	220.6	214.0	214.0	210.6	217.3
57.5°	106.9	110.3	106.9	106.9	106.9	106.9	103.7	106.9
60°	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
62.5°	20.1	20.1	16.7	16.7	16.7	16.7	16.7	16.7
65°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
67.5°	10.1	10.1	10.1	10.1	10.1	13.3	10.1	10.1
70°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	10.1	10.1	13.3	13.3	13.3	13.3	13.3	13.3
75°	6.7	6.7	6.7	3.4	3.4	3.4	3.4	3.4
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)