Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P685230

Luminaire Tested: **LX6C08D010 EX6089040 6LCSWLI**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

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Test Information

Test Method:	LM-79-08
Report Number:	P685230
	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:	LX6C08D010 EX6089040 6LCSWLI
Description:	6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH
Light Source:	-
Ballast/Driver:	-

Luminaire Equipment:	Sample No.	Condition	Description

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	934.0 lumens
Efficiency:	N/A
Efficacy:	94.3 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):	9.9
Input Voltage (V):	
Input Current (Ain):	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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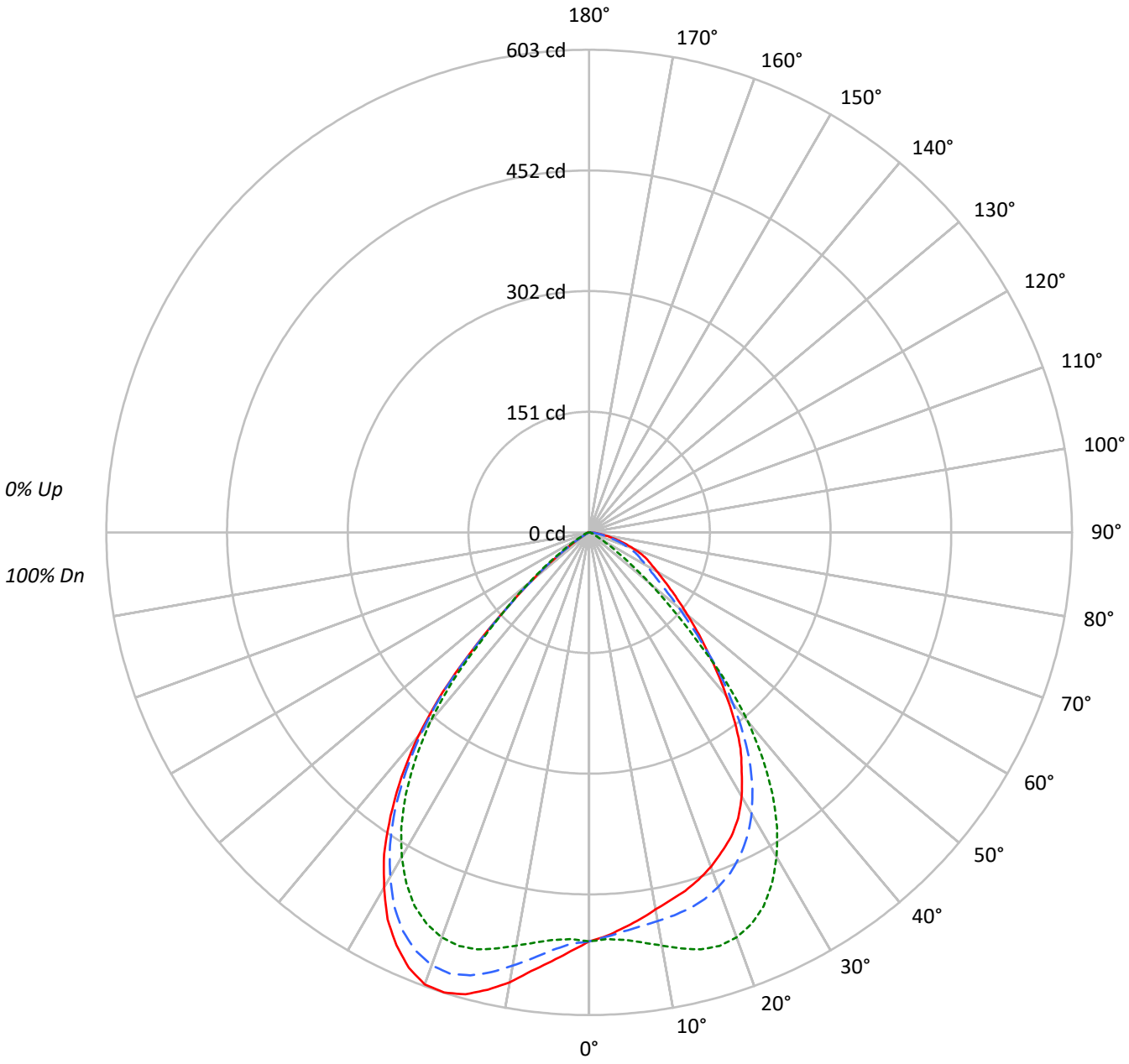
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	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°	28013	28013	28013
5°	27284	28120	29595
10°	26619	29180	31763
15°	26311	30607	33905
20°	25931	31404	35050
25°	25380	31175	34423
30°	24118	29625	32404
35°	22065	26709	28931
40°	19086	22056	23737
45°	16095	14467	15529
50°	13663	8375	7872
55°	11861	4014	3030
60°	10712	1875	746
65°	10390	1077	246
70°	9312	866	240
75°	7667	614	106
80°	5714	316	0
85°	4906	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	5.3
10°-20°	150.4	16.1
20°-30°	229.8	24.6
30°-40°	240.4	25.7
40°-50°	155.9	16.7
50°-60°	61.9	6.6
60°-70°	29.4	3.1
70°-80°	14.0	1.5
80°-90°	2.8	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°	429.6	46.0
0°-40°	670.0	71.7
0°-60°	887.8	95.1
0°-90°	934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	511	511	511	511	511	
5°	496	500	511	524	538	47
15°	464	486	539	573	597	131
25°	420	446	515	550	569	192
35°	330	350	399	422	432	204
45°	208	206	187	198	200	162
55°	124	106	42	33	32	112
65°	80	66	8	2	2	78
75°	36	29	3	1	0	39
85°	8	5	0	0	0	9
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°	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0
2.5°	504.6	505.6	500.2	498.8	502.7	504.1	504.6	503.2	503.6	505.6	505.6
5°	495.8	496.8	491.9	490.4	494.4	495.3	496.8	496.3	497.8	500.7	500.2
7.5°	487.5	489.0	483.6	481.7	486.6	489.0	490.0	490.0	491.9	495.8	496.3
10°	478.2	480.2	475.3	474.3	479.7	482.1	482.6	483.6	486.6	491.9	492.9
12.5°	470.4	472.4	469.0	467.5	473.4	475.8	476.8	478.7	482.1	489.0	490.0
15°	463.6	465.1	461.1	460.2	466.0	469.0	469.4	472.4	476.8	484.6	486.1
17.5°	*454.8*	*455.8*	*452.8*	*451.9*	*457.7*	*460.6*	*461.1*	*464.6*	*469.9*	*477.8*	*480.2*
20°	444.5	445.5	442.6	441.6	447.5	450.9	451.4	454.3	460.6	469.0	471.4
22.5°	432.3	434.3	430.9	429.9	435.8	438.7	440.1	442.6	448.9	457.2	460.6
25°	419.6	419.6	417.2	416.7	422.1	425.5	425.0	428.4	434.8	443.1	446.0
27.5°	403.0	402.5	400.1	399.6	405.5	408.4	407.4	410.8	416.7	425.0	427.9
30°	381.0	382.0	378.6	377.6	382.5	387.4	386.9	390.3	396.2	404.0	406.0
32.5°	354.7	355.6	355.1	353.7	358.1	360.5	362.0	364.4	369.3	377.6	379.6
35°	329.7	328.3	326.3	326.3	330.7	334.6	333.2	336.1	341.0	349.3	349.8
37.5°	299.0	298.5	297.5	296.5	301.4	302.4	302.9	304.8	309.2	316.1	315.1
40°	266.7	267.2	266.7	264.8	267.7	271.6	271.1	272.1	276.0	280.9	279.4
42.5°	236.4	236.4	236.4	234.5	237.9	239.9	240.8	240.3	241.3	245.7	243.8
45°	207.6	208.1	207.6	207.1	207.6	208.6	207.6	207.1	207.1	208.6	205.7
47.5°	182.7	182.7	181.2	179.8	181.2	181.7	180.3	178.8	178.3	177.8	172.9
50°	160.2	159.7	159.3	156.8	158.3	158.8	156.8	155.8	153.9	151.4	145.6
52.5°	140.7	140.2	139.7	137.3	138.3	138.7	136.8	134.8	132.4	130.4	123.1
55°	124.1	123.6	123.6	122.1	121.1	122.1	120.2	118.7	115.3	112.8	105.5
57.5°	109.9	109.9	108.9	107.5	108.0	108.0	106.0	104.0	101.1	98.2	92.3
60°	97.7	97.7	97.7	96.2	96.2	96.2	95.3	93.3	90.9	87.9	82.1
62.5°	87.9	87.9	87.4	86.0	86.5	86.5	85.5	83.5	81.1	79.1	73.3
65°	80.1	80.1	80.1	78.7	78.7	79.1	78.2	76.2	74.2	71.8	66.4
67.5°	70.3	69.9	69.9	68.9	69.4	69.9	68.9	67.4	65.0	63.5	58.6
70°	58.1	58.6	59.1	57.7	58.1	58.1	57.7	56.2	54.7	53.2	48.9
72.5°	47.4	47.4	46.9	46.4	46.4	46.9	45.9	44.5	43.5	42.5	39.1
75°	36.2	35.7	36.2	35.2	35.2	35.2	34.2	33.7	33.2	31.7	29.3
77.5°	26.4	25.9	25.9	24.9	25.4	25.4	24.9	23.9	23.0	22.5	20.5
80°	18.1	18.1	18.1	17.6	17.6	17.1	17.1	16.6	15.6	15.1	14.2
82.5°	12.2	12.2	12.2	11.7	11.7	11.7	11.2	10.7	10.3	9.8	8.8
85°	7.8	7.8	7.8	7.3	7.3	7.3	6.8	6.8	6.4	5.9	4.9
87.5°	4.4	4.4	4.4	3.9	3.9	3.9	3.9	3.9	3.4	2.9	2.4
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°	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0
2.5°	509.0	502.2	506.6	506.6	505.1	509.0	511.5	513.4	512.9	508.5	508.0
5°	505.1	499.2	504.1	504.6	503.2	508.5	511.9	514.4	514.9	511.0	511.5
7.5°	502.2	497.3	503.6	505.6	505.1	510.0	513.9	517.8	519.8	516.8	517.3
10°	500.7	496.8	503.6	506.6	507.1	512.4	518.3	523.7	526.1	524.2	525.6
12.5°	498.8	496.3	504.1	508.5	510.5	515.9	523.2	529.5	533.4	532.5	535.4
15°	496.8	494.9	504.1	510.5	512.9	517.8	526.1	535.4	539.8	539.3	543.2
17.5°	*491.9*	*491.4*	*501.2*	*508.0*	*511.5*	*517.3*	*525.1*	*536.4*	*540.8*	*541.7*	*546.6*
20°	484.1	484.1	494.9	502.2	506.1	511.5	521.2	532.0	537.4	538.3	543.7
22.5°	473.4	474.3	484.6	491.9	497.8	501.7	511.9	523.2	528.1	529.5	535.4
25°	459.2	460.2	469.9	477.3	483.6	488.0	497.8	508.0	513.9	515.4	519.8
27.5°	440.6	442.6	451.9	459.2	464.6	467.5	477.8	488.5	492.9	494.4	498.8
30°	419.1	419.6	428.9	435.3	440.6	443.1	451.9	463.1	466.5	468.0	474.3
32.5°	392.7	392.3	401.1	406.9	411.3	414.2	423.5	430.9	434.3	436.7	440.1
35°	361.0	360.5	366.9	373.7	377.1	378.1	387.4	395.2	397.2	399.1	403.5
37.5°	325.3	325.3	330.7	334.1	338.0	339.5	343.9	352.7	356.1	355.6	359.0
40°	287.7	285.8	289.7	293.1	294.1	294.6	299.0	305.8	308.2	308.2	310.7
42.5°	248.2	245.2	245.7	247.7	248.6	245.2	248.2	252.5	251.1	253.0	253.5
45°	206.2	201.7	199.8	195.4	196.4	193.0	191.0	192.0	191.5	186.6	187.6
47.5°	171.9	164.1	160.7	154.4	152.9	149.0	146.6	142.1	138.3	138.3	135.8
50°	143.1	135.3	128.5	121.1	118.7	115.3	109.9	104.0	101.1	98.2	95.8
52.5°	120.2	111.9	103.6	95.8	92.3	87.9	80.6	74.7	69.4	66.4	63.5
55°	101.6	92.3	83.5	75.2	70.8	66.4	59.1	52.3	45.9	42.0	39.6
57.5°	87.4	78.7	69.4	60.6	56.7	51.8	44.0	36.6	30.8	26.4	23.9
60°	77.2	68.4	60.1	50.8	46.9	42.0	33.7	26.9	21.0	17.1	14.2
62.5°	68.4	60.6	51.8	43.5	39.6	34.7	26.9	20.0	14.7	10.7	8.3
65°	62.0	54.2	46.9	38.6	35.2	30.3	23.0	16.6	11.7	8.3	5.9
67.5°	54.7	47.9	40.5	33.7	30.3	26.4	19.5	14.2	9.8	6.8	4.9
70°	45.9	40.5	34.2	27.9	25.4	22.0	16.1	11.7	7.8	5.4	3.9
72.5°	36.6	32.2	27.4	22.5	20.5	17.1	13.2	9.3	5.9	3.9	2.9
75°	27.9	24.4	20.5	17.1	15.1	13.2	9.8	6.8	4.4	2.9	1.9
77.5°	19.1	17.6	14.7	11.7	10.7	9.3	6.4	4.4	2.9	1.9	1.0
80°	13.2	11.7	9.8	7.8	6.8	5.9	3.9	2.9	1.5	1.0	0.5
82.5°	8.3	6.8	5.9	4.9	4.4	3.4	2.4	1.5	1.0	0.5	0.5
85°	4.4	3.9	3.4	2.4	2.4	1.9	1.5	1.0	0.5	0.0	0.0
87.5°	2.4	1.9	1.5	1.0	1.0	0.5	0.5	0.5	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):

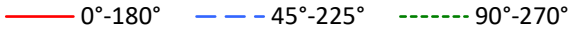
	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0
2.5°	513.9	513.9	513.4	519.3	512.4	519.3	515.9	519.3	514.4	513.9	514.4
5°	517.8	519.3	519.8	525.1	518.8	527.1	524.2	527.1	523.7	524.7	526.1
7.5°	525.6	528.1	527.6	534.4	528.1	537.4	535.4	539.8	536.4	537.4	539.3
10°	534.4	537.4	537.8	544.7	538.8	550.0	547.6	552.5	549.6	551.0	553.5
12.5°	544.7	548.1	548.6	556.4	550.0	561.8	560.3	565.2	562.7	564.2	567.2
15°	552.5	557.4	558.4	566.2	559.3	571.5	570.6	576.9	573.0	575.5	577.9
17.5°	*556.4*	*560.8*	*562.7*	*570.1*	*564.2*	*576.4*	*575.5*	*580.8*	*577.9*	*580.3*	*583.3*
20°	554.0	559.3	560.8	568.1	562.3	574.5	573.0	578.4	575.5	577.4	580.3
22.5°	545.2	550.5	552.5	559.3	554.0	565.2	564.7	569.6	565.7	568.1	570.6
25°	529.5	535.4	536.4	542.7	536.9	548.6	547.6	553.0	550.0	551.5	554.9
27.5°	507.1	513.9	515.4	520.7	516.4	526.1	526.1	530.5	527.1	527.1	530.5
30°	480.2	487.0	488.0	492.4	488.5	497.3	497.8	502.2	496.8	499.7	500.2
32.5°	447.5	451.9	454.8	458.7	452.8	464.1	462.6	466.0	463.1	463.1	465.5
35°	407.9	413.3	414.7	419.6	414.7	423.5	423.5	425.5	422.5	422.5	426.5
37.5°	364.9	368.8	369.3	374.2	370.3	377.6	377.1	378.6	375.7	377.6	377.6
40°	314.6	317.5	318.5	320.9	320.5	325.8	325.3	326.3	324.9	325.3	326.3
42.5°	256.0	259.9	261.8	263.8	260.9	268.2	266.7	268.2	267.7	268.2	269.7
45°	188.6	191.5	193.0	193.4	192.5	196.9	200.3	197.4	197.8	196.9	198.8
47.5°	136.3	136.8	135.8	138.7	136.3	138.3	139.2	139.7	136.8	136.3	138.3
50°	93.3	95.8	92.3	93.8	93.3	95.3	94.3	94.8	91.8	93.3	92.3
52.5°	62.0	61.5	60.6	61.1	60.1	60.1	60.1	61.1	59.1	58.1	57.2
55°	37.6	36.6	34.7	34.2	34.2	34.7	33.7	32.7	32.7	32.2	32.2
57.5°	22.0	20.5	19.5	19.1	18.1	17.6	17.1	17.1	16.1	16.1	16.1
60°	12.2	10.7	9.8	8.8	8.8	8.3	7.8	7.3	7.3	7.3	6.8
62.5°	6.4	5.4	4.4	3.9	3.9	3.4	2.9	2.9	2.9	2.9	2.4
65°	4.4	3.4	2.9	2.4	2.4	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	3.4	2.9	2.4	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5
70°	2.9	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.9	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
80°	0.5	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: P685230
CATALOG NUMBER: LX6C08D010 EX6089040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	511.0	511.0	511.0	511.0	511.0	511.0	511.0	*511.0*
2.5°	518.8	518.3	518.8	519.8	517.8	523.7	520.7	*523.7*
5°	530.0	530.5	531.0	532.5	530.0	537.4	533.4	*537.8*
7.5°	544.7	545.2	545.7	547.1	545.7	553.0	548.6	*552.5*
10°	559.8	560.8	560.8	563.2	561.8	568.6	565.7	*570.6*
12.5°	574.0	575.0	576.0	577.4	576.4	583.8	581.3	*585.2*
15°	585.2	587.2	587.7	589.6	588.6	596.5	593.5	*597.4*
17.5°	*590.6*	*592.5*	*592.5*	*595.0*	*594.0*	*602.3*	*598.4*	*602.8*
20°	587.7	589.1	589.6	592.1	591.1	599.4	595.5	*600.8*
22.5°	578.4	578.9	579.4	581.8	581.3	588.6	585.2	*588.6*
25°	561.3	562.7	562.3	564.2	564.2	570.1	566.2	*569.1*
27.5°	536.9	538.3	538.3	540.8	538.8	544.7	540.8	*545.2*
30°	507.1	508.5	507.6	509.5	507.6	513.4	510.5	*511.9*
32.5°	471.4	471.4	471.9	472.4	471.4	476.8	473.8	*476.8*
35°	428.9	429.9	430.4	430.9	429.9	433.8	430.4	*432.3*
37.5°	381.0	383.5	383.0	383.5	382.0	386.9	384.0	*384.9*
40°	329.7	329.7	329.2	330.2	328.8	332.7	330.7	*331.7*
42.5°	270.1	271.6	269.7	272.1	268.2	273.6	271.6	*270.1*
45°	202.7	200.8	200.3	200.8	199.3	199.8	201.3	*200.3*
47.5°	138.3	138.3	137.3	135.8	137.8	138.3	136.3	*136.3*
50°	92.8	92.8	91.8	91.3	92.3	91.8	90.9	*92.3*
52.5°	59.1	57.2	57.2	58.1	57.2	56.2	57.7	*56.7*
55°	32.2	31.3	31.3	32.2	31.3	31.3	30.8	*31.7*
57.5°	15.6	16.1	15.6	15.6	15.6	15.6	15.1	*15.6*
60°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	*6.8*
62.5°	2.9	2.9	2.4	2.4	2.4	2.4	2.4	*2.4*
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	*1.9*
67.5°	1.5	1.5	1.5	1.5	1.5	1.9	1.5	*1.5*
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	*1.5*
72.5°	1.5	1.5	1.9	1.9	1.9	1.9	1.9	*1.9*
75°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	*0.5*
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)