

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: P684131

Luminaire Tested: **LX6C25D010 EX6C259027 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C25D010 EX6C259027 6LBLWWH  
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

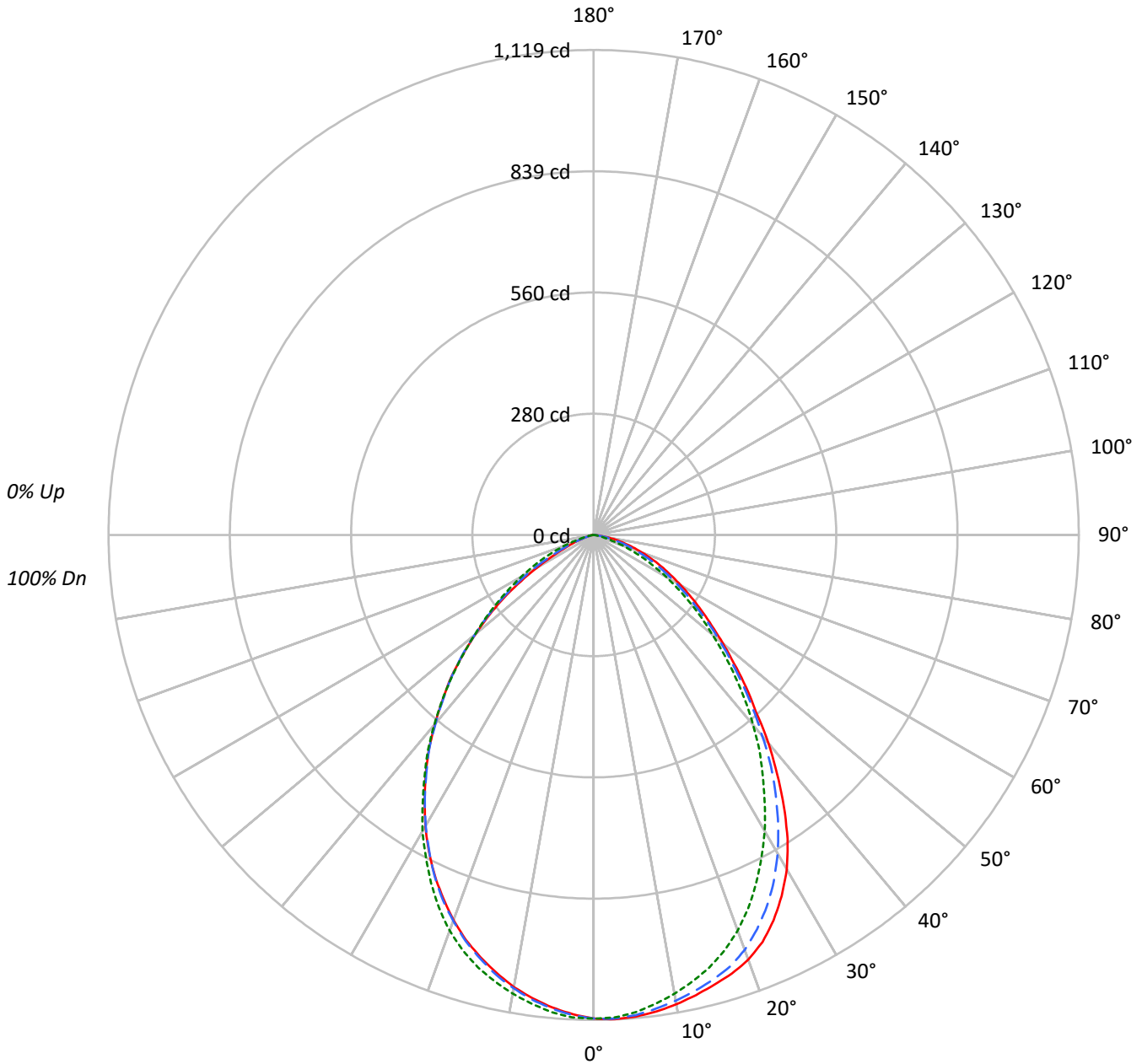
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2030.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.5  
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

TEST NUMBER: P684131

CATALOG NUMBER: LX6C25D010 EX6C259027 6LBLWWH

### 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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	61179	61179	61179
5°	61391	60835	60235
10°	61205	59846	58972
15°	60977	58610	57248
20°	60841	56682	55171
25°	59356	53640	52461
30°	56395	49963	49128
35°	51189	45488	45186
40°	44913	40941	40726
45°	38508	35771	36066
50°	33142	30489	30327
55°	28969	25739	24162
60°	25458	21095	16490
65°	22285	16344	9923
70°	18994	10995	5834
75°	15335	5719	3177
80°	10671	2241	1768
85°	4277	692	943



TEST NUMBER: P684131

CATALOG NUMBER: LX6C25D010 EX6C259027 6LBLWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	5.2
10°-20°	292.0	14.4
20°-30°	415.5	20.5
30°-40°	437.4	21.5
40°-50°	364.5	18.0
50°-60°	246.2	12.1
60°-70°	124.9	6.2
70°-80°	40.3	2.0
80°-90°	4.6	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°	812.1	40.0
0°-40°	1249.5	61.6
0°-60°	1860.2	91.6
0°-90°	2030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1116	1116	1116	1116	1116	
5°	1116	1112	1106	1097	1095	106
15°	1074	1063	1033	1012	1009	304
25°	981	946	887	868	867	450
35°	765	732	680	673	675	476
45°	497	484	461	463	465	384
55°	303	288	269	261	253	273
65°	172	155	126	91	76	171
75°	72	57	27	15	15	78
85°	7	4	1	2	2	12
90°	0	0	0	0	0	



TEST NUMBER: P684131

CATALOG NUMBER: LX6C25D010 EX6C259027 6LBLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1118.6	1118.6	1118.6	1118.6	1118.6	1118.6	1118.3	1118.3	1117.5	1117.5	1117.1
5°	1115.6	1116.0	1116.0	1115.6	1115.6	1114.9	1114.9	1114.5	1113.4	1112.6	1112.3
7.5°	1109.3	1109.3	1108.9	1108.5	1108.1	1107.0	1106.6	1105.5	1104.8	1104.0	1102.5
10°	1099.5	1099.5	1099.1	1098.4	1098.0	1097.3	1097.3	1095.8	1094.3	1092.4	1091.3
12.5°	1087.9	1088.3	1087.5	1087.1	1086.0	1085.6	1084.9	1083.0	1081.9	1079.6	1077.8
15°	1074.4	1075.1	1075.1	1073.6	1072.5	1072.1	1071.0	1069.9	1067.3	1065.0	1062.7
17.5°	1061.2	1062.0	1061.2	1060.1	1059.0	1057.5	1056.7	1054.5	1051.1	1048.1	1044.7
20°	1042.9	1044.0	1042.5	1040.6	1038.4	1038.0	1036.9	1033.1	1028.2	1023.7	1018.9
22.5°	1017.0	1016.2	1015.1	1014.4	1010.6	1008.4	1006.9	1002.0	996.7	990.7	984.7
25°	981.3	982.8	980.6	977.2	975.3	973.1	969.3	964.1	959.2	952.8	945.7
27.5°	939.3	939.3	936.3	935.2	931.1	928.1	926.2	920.9	914.6	908.2	900.3
30°	890.9	888.7	888.7	883.4	880.1	878.9	877.1	868.4	862.8	856.1	848.2
32.5°	832.4	832.0	830.5	827.2	822.7	818.9	818.9	812.9	805.4	797.2	792.3
35°	764.9	765.3	764.5	760.8	760.8	756.3	755.5	750.3	744.3	737.9	731.9
37.5°	695.1	696.6	695.1	693.2	692.1	691.7	688.4	684.6	680.1	676.4	671.9
40°	627.6	625.3	626.1	622.3	622.7	622.0	620.5	615.6	613.0	609.2	604.3
42.5°	554.8	557.1	557.8	555.6	554.8	553.3	554.8	552.9	549.9	548.1	543.6
45°	496.7	494.4	495.5	494.8	495.2	492.2	491.0	490.3	489.2	485.8	483.9
47.5°	438.9	439.3	438.9	437.4	436.7	436.7	435.2	432.9	432.9	430.7	429.2
50°	388.6	388.6	389.4	387.5	386.8	385.3	385.6	383.4	381.9	380.0	378.9
52.5°	342.5	342.9	341.4	341.7	341.0	341.0	339.5	338.0	336.5	333.1	332.4
55°	303.1	303.5	301.6	302.4	300.1	299.0	298.2	296.0	296.0	292.6	288.5
57.5°	266.3	266.0	265.6	264.5	263.0	261.8	260.7	258.1	257.0	254.7	251.3
60°	232.2	231.8	231.1	230.7	229.6	227.0	227.0	225.1	221.3	219.1	215.7
62.5°	199.9	199.9	199.6	198.4	197.3	196.2	195.4	193.9	190.2	187.6	184.6
65°	171.8	171.4	170.3	168.4	167.7	167.7	165.1	163.9	160.9	158.3	154.9
67.5°	144.8	143.3	142.6	142.9	140.7	140.7	138.4	136.5	133.9	129.4	126.8
70°	118.5	117.8	117.0	116.3	115.9	114.4	113.3	111.0	108.4	105.0	100.9
72.5°	94.9	94.9	93.8	93.0	91.9	90.4	89.7	87.8	84.8	81.0	78.0
75°	72.4	72.4	72.4	70.9	70.1	69.4	67.1	66.0	62.6	60.4	56.6
77.5°	53.3	52.5	51.4	51.0	50.3	49.5	48.4	46.5	43.5	40.9	38.6
80°	33.8	34.9	33.8	33.8	31.9	31.1	30.8	28.5	27.4	25.1	23.3
82.5°	18.8	19.1	18.4	18.0	16.9	16.5	16.5	15.0	14.3	12.8	11.6
85°	6.8	7.1	6.8	6.8	6.0	6.4	6.0	5.6	4.9	4.1	3.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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: P684131

CATALOG NUMBER: LX6C25D010 EX6C259027 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1117.1	1116.4	1116.4	1116.0	1115.6	1115.6	1115.6	1115.3	1114.5	1114.5	1114.1
5°	1111.5	1110.8	1109.6	1108.9	1108.5	1108.1	1107.8	1107.4	1105.9	1105.5	1104.4
7.5°	1101.4	1100.6	1098.8	1098.0	1096.9	1096.5	1095.0	1094.3	1092.8	1091.3	1090.5
10°	1089.4	1087.5	1086.0	1084.1	1083.4	1082.3	1080.4	1078.1	1077.0	1075.1	1073.6
12.5°	1075.9	1073.6	1070.6	1068.4	1067.6	1065.7	1062.7	1060.9	1058.2	1055.2	1052.6
15°	1059.0	1056.4	1053.7	1049.6	1048.5	1046.2	1043.2	1039.5	1035.7	1032.7	1029.7
17.5°	1040.6	1036.5	1032.4	1027.9	1024.5	1023.4	1018.5	1013.2	1009.9	1004.6	1001.2
20°	1014.7	1009.1	1002.4	997.9	994.8	991.5	985.8	980.2	976.1	971.6	966.7
22.5°	979.1	973.8	966.0	959.2	957.0	952.1	947.2	942.0	936.7	931.8	925.8
25°	937.1	931.5	923.6	916.8	913.1	910.8	901.4	896.2	890.9	886.8	882.7
27.5°	893.9	883.8	878.6	868.1	864.7	863.9	855.3	849.7	844.0	838.4	833.2
30°	840.7	832.8	824.9	817.4	812.9	810.3	803.9	796.8	793.0	789.3	784.0
32.5°	785.5	778.4	768.6	761.5	758.1	754.4	748.8	743.9	738.3	734.1	733.0
35°	726.6	718.8	710.5	705.2	704.5	700.0	694.4	690.2	686.1	679.7	678.6
37.5°	663.6	659.1	653.5	646.0	642.6	642.6	637.0	634.0	628.7	628.3	625.3
40°	601.7	599.8	591.2	589.0	588.2	583.0	581.5	576.2	572.5	572.1	567.6
42.5°	540.6	535.7	534.2	530.4	527.1	526.3	522.9	520.7	519.2	516.9	514.7
45°	479.8	478.7	474.9	472.3	471.2	469.7	468.5	464.0	463.3	461.4	460.3
47.5°	427.3	424.3	420.9	417.9	417.5	415.3	412.6	412.6	408.5	408.1	407.4
50°	375.1	372.9	371.0	366.9	367.6	364.6	364.3	360.9	359.0	357.5	359.4
52.5°	329.4	324.9	324.1	320.7	319.6	320.0	315.9	314.7	314.0	312.5	311.7
55°	285.9	283.6	280.6	278.3	276.5	274.6	273.1	273.1	269.0	269.3	267.5
57.5°	247.6	245.7	242.0	238.6	237.8	235.6	233.7	231.8	231.5	228.8	227.0
60°	213.5	210.1	205.2	203.7	201.4	199.6	197.7	195.4	194.3	192.4	189.1
62.5°	181.6	175.9	174.1	171.1	168.4	167.3	164.3	161.7	159.8	157.2	154.6
65°	151.2	147.1	143.7	140.3	139.9	136.9	134.3	132.0	128.3	126.0	121.2
67.5°	123.4	119.7	115.9	112.5	109.9	109.2	105.0	102.4	99.8	95.3	91.2
70°	97.9	94.2	91.2	87.0	85.9	82.9	79.9	77.3	72.8	68.6	65.3
72.5°	74.7	70.5	67.1	64.1	62.3	59.6	56.6	53.6	49.1	45.0	42.0
75°	53.3	50.3	46.9	43.9	42.4	40.9	37.5	34.1	31.1	27.0	24.4
77.5°	36.0	33.0	30.0	27.4	25.5	24.4	22.1	19.5	16.9	14.6	12.8
80°	21.0	19.1	16.9	14.6	14.3	13.1	11.3	9.8	8.3	7.1	5.6
82.5°	10.1	9.0	7.5	6.4	5.6	5.3	4.5	3.8	3.0	2.6	2.6
85°	3.0	2.6	2.3	1.9	1.5	1.5	1.1	1.1	1.1	1.1	1.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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: P684131

CATALOG NUMBER: LX6C25D010 EX6C259027 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1113.0	1112.6	1112.3	1111.9	1111.1	1111.1	1110.0	1109.3	1109.3	1108.5	1108.1
5°	1103.3	1102.1	1101.8	1101.0	1100.3	1099.9	1098.4	1098.0	1097.3	1096.5	1096.5
7.5°	1089.4	1087.9	1086.4	1085.6	1085.3	1084.1	1083.4	1083.0	1081.9	1081.1	1079.6
10°	1071.0	1069.9	1068.0	1067.3	1066.5	1065.7	1063.9	1062.7	1062.4	1061.6	1060.9
12.5°	1049.6	1048.1	1046.2	1044.7	1044.0	1042.9	1041.0	1039.9	1039.9	1038.4	1038.4
15°	1026.7	1024.5	1021.1	1019.6	1019.2	1017.0	1015.5	1014.0	1012.1	1011.4	1011.4
17.5°	997.5	993.7	990.7	990.7	989.2	987.0	984.7	983.6	982.5	981.0	980.2
20°	963.0	960.3	957.0	957.0	953.6	952.8	950.6	950.2	947.6	948.0	946.8
22.5°	921.3	919.8	917.9	916.4	914.6	912.3	911.2	911.6	910.4	910.1	909.7
25°	879.3	875.2	872.9	872.2	871.4	869.6	868.8	868.4	868.4	867.3	867.7
27.5°	830.9	827.9	824.9	826.0	824.5	823.4	822.7	821.5	822.3	821.9	822.3
30°	781.4	777.6	775.8	776.5	776.1	773.1	774.6	774.3	774.6	774.6	775.4
32.5°	729.3	726.6	726.3	726.6	723.3	723.6	722.1	724.4	724.8	727.0	725.1
35°	676.4	674.9	672.2	671.9	672.2	671.9	671.9	673.4	673.0	675.2	674.5
37.5°	622.0	621.2	618.6	619.3	617.8	620.5	621.2	620.5	623.1	622.3	622.0
40°	568.7	567.6	566.1	569.1	567.2	565.7	568.3	566.1	566.8	569.1	569.1
42.5°	514.7	512.8	512.8	512.8	512.4	512.4	513.6	514.7	513.9	514.3	517.3
45°	460.3	459.9	458.8	459.5	459.2	461.0	461.0	461.8	463.3	464.8	464.0
47.5°	407.8	407.0	408.1	407.4	407.8	406.6	407.4	409.6	411.5	408.9	411.5
50°	358.6	357.1	356.8	357.9	357.5	357.1	357.9	357.9	357.1	357.1	359.8
52.5°	311.7	310.2	309.1	311.0	309.9	310.2	308.7	308.7	309.5	308.7	307.6
55°	267.8	266.7	265.2	266.0	264.1	263.7	262.2	262.2	261.1	260.3	258.1
57.5°	225.8	225.1	221.7	221.3	221.7	219.1	216.5	215.3	212.3	211.6	211.2
60°	188.7	184.6	182.7	180.4	178.9	177.8	174.8	172.9	168.4	165.8	165.4
62.5°	150.1	148.2	145.9	142.6	141.8	138.0	135.0	130.2	127.9	124.5	121.2
65°	118.9	114.0	110.7	108.8	105.8	102.4	99.0	93.8	91.2	87.0	83.7
67.5°	87.0	82.9	78.4	76.9	74.3	70.1	66.8	62.3	60.0	56.3	55.1
70°	59.6	55.9	52.5	50.3	48.4	44.3	40.9	39.4	37.1	36.4	36.4
72.5°	38.3	34.9	31.1	30.0	28.5	26.3	24.0	23.3	24.0	23.6	23.6
75°	21.4	19.5	16.9	15.8	15.8	15.0	14.6	14.6	14.6	14.6	14.6
77.5°	10.9	9.8	9.0	8.6	8.6	8.6	9.0	9.0	9.0	9.4	9.0
80°	5.3	4.9	4.9	4.9	5.3	5.3	5.3	5.3	5.3	5.6	5.3
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.0	3.0	3.0	3.0	3.0
85°	1.1	1.1	1.1	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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: P684131

CATALOG NUMBER: LX6C25D010 EX6C259027 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1107.8	1107.0	1107.0	1106.6	1106.6	1106.6	1106.6	1107.0
5°	1095.8	1095.4	1095.4	1094.6	1094.6	1094.6	1094.6	1094.6
7.5°	1079.6	1078.9	1079.3	1078.5	1078.5	1078.9	1078.5	1078.1
10°	1059.7	1059.4	1059.7	1059.7	1059.0	1058.6	1059.0	1059.4
12.5°	1037.2	1036.9	1036.1	1036.5	1036.5	1036.1	1035.7	1035.0
15°	1011.0	1010.6	1010.2	1009.9	1009.5	1009.9	1009.5	1008.7
17.5°	980.2	980.2	979.8	979.5	979.1	978.3	978.7	979.8
20°	947.2	946.8	946.1	946.5	945.0	944.2	944.6	945.7
22.5°	909.3	908.2	908.9	907.8	907.8	908.2	907.8	907.1
25°	868.1	866.6	867.3	867.7	867.7	867.3	866.9	867.3
27.5°	822.3	823.4	823.4	822.7	823.8	822.3	823.0	823.4
30°	775.4	774.3	773.9	775.4	777.6	775.8	775.8	776.1
32.5°	727.0	725.5	725.5	726.3	725.9	725.9	727.4	725.5
35°	675.2	676.0	673.0	674.9	675.6	674.9	675.2	675.2
37.5°	623.1	622.3	622.3	622.3	623.5	623.5	624.2	623.8
40°	571.7	570.2	569.8	570.6	569.1	570.2	570.2	569.1
42.5°	516.2	516.6	518.4	516.6	516.9	516.6	515.8	515.4
45°	464.8	465.9	465.2	464.8	465.2	463.7	464.0	465.2
47.5°	410.4	412.6	410.4	411.9	411.5	410.8	410.0	408.5
50°	359.4	360.1	359.8	359.4	359.0	358.6	356.8	355.6
52.5°	307.2	307.2	307.2	307.2	303.5	305.4	304.6	302.4
55°	256.2	257.3	255.8	255.8	253.2	253.2	252.5	252.8
57.5°	207.1	205.9	204.8	204.8	202.2	201.1	199.9	198.4
60°	161.3	160.2	158.7	156.8	154.2	154.2	153.4	150.4
62.5°	118.2	116.3	115.2	113.7	111.4	109.9	108.8	109.5
65°	81.0	79.2	77.7	77.7	77.7	76.9	76.5	76.5
67.5°	53.3	54.4	53.6	54.4	54.4	53.6	53.3	54.0
70°	36.8	36.8	36.4	36.4	36.4	36.4	36.0	36.4
72.5°	23.6	23.6	23.6	24.0	23.6	23.6	24.0	24.0
75°	15.0	15.0	15.0	15.4	15.0	15.0	15.4	15.0
77.5°	9.0	9.4	9.4	9.4	9.4	9.0	9.4	9.4
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)