

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: P684167

Luminaire Tested: **LX6C25D010 EX6C259727 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C25D010 EX6C259727 6LCSWH  
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

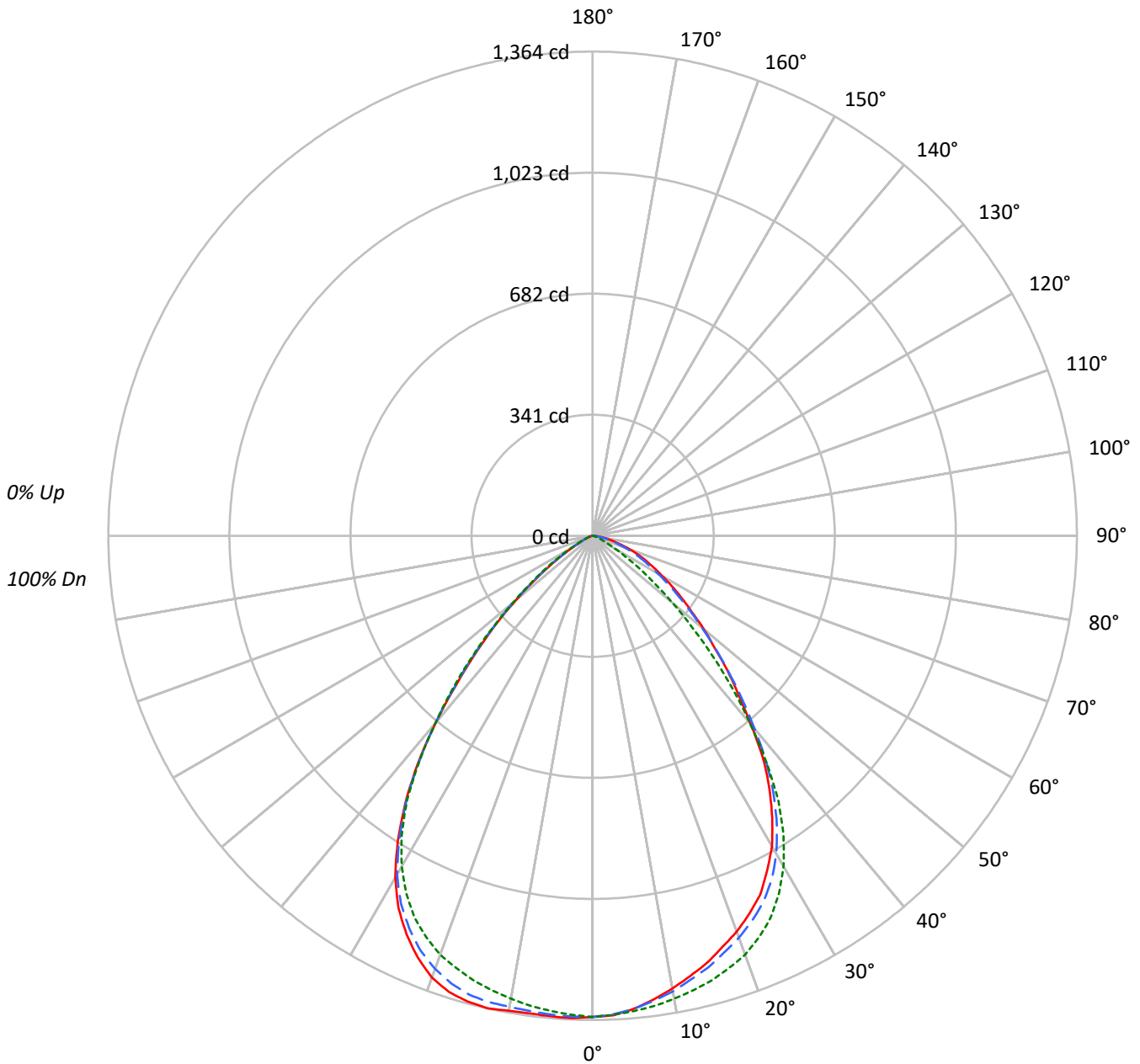
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2274.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 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

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### Luminous Intensity Polar Plot





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**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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	74309	74309	74309
5°	73597	73960	74769
10°	72082	73718	75633
15°	70704	73582	77112
20°	69236	73250	77258
25°	67528	71786	74956
30°	63940	68080	70359
35°	58062	61020	61569
40°	49557	49321	49085
45°	41624	36926	35787
50°	34762	24989	23735
55°	29256	15330	13925
60°	24768	8080	6995
65°	21442	4242	3399
70°	17840	2629	1827
75°	13175	1737	1038
80°	10323	1042	537
85°	8240	1069	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	5.6
10°-20°	365.8	16.1
20°-30°	540.1	23.8
30°-40°	556.6	24.5
40°-50°	384.5	16.9
50°-60°	189.5	8.3
60°-70°	76.8	3.4
70°-80°	27.4	1.2
80°-90°	5.7	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°	1033.6	45.5
0°-40°	1590.2	69.9
0°-60°	2164.2	95.2
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1356	1356	1356	1356	1356	
5°	1337	1337	1344	1354	1359	126
15°	1246	1259	1296	1339	1359	351
25°	1116	1138	1187	1221	1239	510
35°	868	889	912	917	920	538
45°	537	540	476	470	462	415
55°	306	295	160	151	146	277
65°	165	149	33	26	26	164
75°	62	52	8	5	5	70
85°	13	10	2	0	0	16
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°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1352.1	1347.3	1350.5	1344.0	1352.1	1344.0	1345.6	1347.3	1345.6	1347.3	1348.9
5°	1337.4	1332.5	1337.4	1329.2	1337.4	1332.5	1332.5	1334.2	1334.2	1335.8	1337.4
7.5°	1317.8	1312.9	1317.8	1309.6	1319.4	1314.5	1314.5	1317.8	1316.1	1317.8	1321.1
10°	1294.9	1288.3	1293.2	1288.3	1298.2	1291.6	1294.9	1294.9	1294.9	1299.8	1303.1
12.5°	1270.3	1263.7	1270.3	1262.1	1271.9	1267.1	1268.7	1273.6	1275.2	1278.5	1280.1
15°	1245.8	1237.6	1240.8	1235.9	1245.8	1240.8	1242.5	1249.0	1249.0	1254.0	1258.9
17.5°	1214.7	1208.1	1214.7	1208.1	1216.3	1213.0	1216.3	1221.2	1221.2	1226.1	1231.0
20°	1186.8	1180.3	1185.2	1180.3	1190.1	1185.2	1186.8	1193.4	1195.0	1199.9	1204.8
22.5°	1152.4	1147.5	1150.8	1145.9	1155.7	1152.4	1154.1	1160.6	1162.3	1165.6	1173.7
25°	1116.4	1106.6	1111.5	1108.2	1118.1	1113.2	1116.4	1123.0	1126.3	1131.1	1137.7
27.5°	1064.0	1059.1	1062.4	1062.4	1070.6	1065.7	1067.3	1073.9	1078.8	1083.7	1091.9
30°	1010.1	1001.9	1005.1	1006.7	1013.3	1010.1	1013.3	1019.8	1021.5	1028.0	1034.6
32.5°	941.3	938.0	944.6	941.3	944.6	944.6	946.2	951.1	954.3	957.7	965.9
35°	867.6	861.1	867.6	864.4	872.5	867.6	872.5	877.5	877.5	884.0	888.9
37.5°	787.4	779.2	782.5	782.5	785.7	784.1	784.1	792.3	793.9	798.9	803.8
40°	692.5	689.2	695.7	694.1	695.7	695.7	697.3	702.3	705.5	707.2	708.9
42.5°	607.3	608.9	610.6	610.6	610.6	610.6	610.6	617.1	615.5	620.5	622.1
45°	536.9	530.4	533.7	532.1	536.9	532.1	536.9	541.8	538.6	543.5	540.2
47.5°	464.9	464.9	464.9	463.3	466.6	464.9	468.2	469.8	469.8	469.8	468.2
50°	407.6	402.7	404.3	404.3	406.0	404.3	407.6	409.2	409.2	406.0	399.5
52.5°	351.9	350.3	350.3	353.6	353.6	351.9	351.9	351.9	351.9	347.1	343.7
55°	306.1	302.9	304.5	304.5	304.5	304.5	306.1	304.5	304.5	299.5	294.7
57.5°	265.2	261.9	261.9	261.9	263.5	261.9	261.9	261.9	260.3	255.3	248.8
60°	225.9	224.3	225.9	225.9	227.5	225.9	225.9	225.9	222.7	217.7	211.1
62.5°	193.2	193.2	193.2	194.8	194.8	193.2	193.2	191.5	189.9	183.3	176.8
65°	165.3	163.7	165.3	165.3	166.9	166.9	165.3	163.7	162.1	155.5	149.0
67.5°	137.5	135.9	137.5	137.5	139.1	137.5	137.5	137.5	132.6	129.3	122.7
70°	111.3	109.7	109.7	109.7	111.3	108.0	109.7	109.7	106.4	101.5	94.9
72.5°	85.1	85.1	85.1	85.1	85.1	85.1	83.5	83.5	80.2	75.3	72.0
75°	62.2	62.2	63.8	63.8	62.2	62.2	62.2	60.6	58.9	55.6	52.4
77.5°	45.9	45.9	45.9	45.9	44.2	44.2	44.2	42.5	40.9	39.3	36.0
80°	32.7	32.7	32.7	31.1	32.7	31.1	31.1	31.1	27.8	26.2	24.6
82.5°	22.9	21.3	21.3	21.3	21.3	21.3	21.3	19.6	19.6	18.0	16.4
85°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	11.4	9.8	9.8
87.5°	6.5	8.2	8.2	8.2	8.2	8.2	8.2	6.5	6.5	6.5	4.9
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°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1348.9	1348.9	1352.1	1347.3	1355.5	1350.5	1348.9	1357.1	1352.1	1350.5	1353.8
5°	1337.4	1339.1	1340.7	1337.4	1345.6	1340.7	1340.7	1348.9	1345.6	1344.0	1348.9
7.5°	1322.7	1324.3	1327.6	1326.0	1332.5	1329.2	1330.9	1339.1	1335.8	1335.8	1340.7
10°	1304.7	1307.9	1311.3	1311.3	1319.4	1316.1	1316.1	1326.0	1322.7	1324.3	1330.9
12.5°	1283.4	1288.3	1293.2	1294.9	1303.1	1298.2	1299.8	1311.3	1309.6	1311.3	1317.8
15°	1260.5	1267.1	1271.9	1271.9	1281.8	1276.9	1281.8	1293.2	1290.0	1296.5	1304.7
17.5°	1234.3	1240.8	1247.4	1249.0	1258.9	1255.6	1262.1	1273.6	1273.6	1276.9	1286.7
20°	1209.8	1217.9	1221.2	1226.1	1235.9	1234.3	1237.6	1250.7	1250.7	1255.6	1265.4
22.5°	1177.0	1185.2	1191.7	1196.6	1204.8	1204.8	1209.8	1221.2	1221.2	1224.5	1234.3
25°	1141.0	1150.8	1155.7	1160.6	1168.8	1167.2	1172.1	1181.9	1183.5	1186.8	1196.6
27.5°	1095.1	1103.3	1109.9	1113.2	1124.6	1118.1	1123.0	1134.5	1132.8	1136.1	1144.3
30°	1037.9	1046.1	1052.6	1052.6	1062.4	1062.4	1067.3	1072.2	1072.2	1075.5	1082.1
32.5°	970.7	980.6	980.6	985.5	992.0	985.5	992.0	998.5	995.3	1000.2	1005.1
35°	893.8	898.7	900.4	900.4	905.3	903.6	902.0	906.9	903.6	911.8	916.7
37.5°	800.5	807.0	803.8	807.0	805.4	800.5	800.5	808.7	802.1	803.8	808.7
40°	710.5	710.5	708.9	700.7	702.3	697.3	695.7	697.3	690.8	689.2	695.7
42.5°	617.1	615.5	610.6	599.2	600.8	592.6	586.0	586.0	582.8	581.1	582.8
45°	533.7	528.7	520.5	507.5	504.2	497.6	484.5	481.3	476.3	476.3	478.0
47.5°	456.7	450.2	437.1	422.4	414.2	406.0	392.9	387.9	379.8	376.5	379.8
50°	392.9	381.4	365.0	343.7	335.6	325.8	312.7	304.5	296.3	293.0	291.4
52.5°	334.0	317.6	301.2	275.0	268.5	258.7	240.6	232.4	224.3	217.7	217.7
55°	283.2	268.5	245.6	221.0	211.1	201.4	183.3	171.9	163.7	160.4	157.2
57.5°	237.4	221.0	199.7	173.5	163.7	153.9	135.9	124.4	116.2	111.3	108.0
60°	199.7	181.7	160.4	137.5	126.1	116.2	98.2	86.7	78.5	73.7	70.4
62.5°	163.7	149.0	127.7	106.4	96.6	86.7	72.0	60.6	52.4	49.1	44.2
65°	137.5	122.7	103.1	85.1	76.9	67.1	54.0	44.2	37.7	32.7	29.5
67.5°	111.3	99.8	83.5	67.1	58.9	52.4	40.9	32.7	26.2	22.9	21.3
70°	88.4	76.9	63.8	50.7	45.9	39.3	31.1	22.9	19.6	16.4	14.7
72.5°	65.5	57.3	47.5	37.7	32.7	29.5	21.3	18.0	13.1	11.4	9.8
75°	47.5	40.9	34.3	26.2	22.9	21.3	16.4	11.4	9.8	8.2	6.5
77.5°	32.7	29.5	22.9	18.0	16.4	14.7	11.4	8.2	6.5	4.9	4.9
80°	21.3	18.0	14.7	11.4	11.4	9.8	6.5	4.9	4.9	3.3	3.3
82.5°	13.1	11.4	9.8	8.2	6.5	6.5	4.9	3.3	3.3	1.7	1.7
85°	8.2	6.5	4.9	4.9	3.3	3.3	3.3	1.7	1.7	1.7	1.7
87.5°	3.3	3.3	3.3	1.7	1.7	1.7	1.7	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1353.8	1353.8	1357.1	1352.1	1355.5	1355.5	1358.7	1352.1	1355.5	1357.1	1360.3
5°	1347.3	1348.9	1352.1	1350.5	1352.1	1352.1	1355.5	1347.3	1353.8	1353.8	1358.7
7.5°	1340.7	1340.7	1344.0	1342.4	1345.6	1347.3	1350.5	1344.0	1350.5	1350.5	1355.5
10°	1332.5	1332.5	1337.4	1335.8	1340.7	1342.4	1347.3	1340.7	1347.3	1348.9	1353.8
12.5°	1321.1	1322.7	1327.6	1327.6	1332.5	1335.8	1340.7	1337.4	1345.6	1347.3	1353.8
15°	1307.9	1311.3	1317.8	1316.1	1321.1	1326.0	1332.5	1327.6	1339.1	1342.4	1348.9
17.5°	1291.6	1294.9	1299.8	1299.8	1304.7	1307.9	1316.1	1312.9	1322.7	1324.3	1332.5
20°	1267.1	1271.9	1278.5	1276.9	1281.8	1285.0	1291.6	1288.3	1298.2	1301.4	1309.6
22.5°	1237.6	1240.8	1245.8	1245.8	1250.7	1254.0	1260.5	1255.6	1265.4	1267.1	1273.6
25°	1198.3	1201.6	1204.8	1206.5	1211.4	1213.0	1216.3	1213.0	1221.2	1222.9	1231.0
27.5°	1147.5	1149.2	1154.1	1154.1	1157.4	1159.0	1163.9	1157.4	1168.8	1168.8	1173.7
30°	1086.9	1085.3	1091.9	1088.6	1091.9	1091.9	1096.8	1093.5	1101.7	1098.5	1103.3
32.5°	1006.7	1010.1	1010.1	1006.7	1013.3	1011.7	1011.7	1008.4	1013.3	1014.9	1018.2
35°	913.5	918.3	918.3	920.0	921.7	916.7	918.3	908.6	916.7	918.3	920.0
37.5°	812.0	807.0	810.3	805.4	813.6	803.8	803.8	797.3	803.8	803.8	805.4
40°	695.7	694.1	697.3	694.1	692.5	690.8	687.6	682.6	689.2	685.9	690.8
42.5°	586.0	584.4	584.4	581.1	579.5	579.5	576.3	572.9	571.3	571.3	579.5
45°	473.1	476.3	473.1	471.5	474.7	471.5	473.1	466.6	469.8	466.6	469.8
47.5°	378.2	379.8	376.5	373.2	378.2	373.2	373.2	368.3	374.9	374.9	371.6
50°	293.0	291.4	288.1	291.4	289.8	289.8	289.8	284.8	288.1	283.2	286.5
52.5°	216.1	214.5	214.5	212.8	214.5	212.8	212.8	211.1	211.1	209.5	211.1
55°	157.2	155.5	152.2	152.2	152.2	153.9	152.2	150.6	150.6	149.0	150.6
57.5°	106.4	103.1	103.1	103.1	103.1	101.5	101.5	99.8	101.5	99.8	101.5
60°	68.8	68.8	65.5	65.5	65.5	65.5	65.5	63.8	65.5	65.5	65.5
62.5°	42.5	42.5	40.9	39.3	40.9	39.3	39.3	39.3	40.9	39.3	40.9
65°	27.8	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
67.5°	19.6	18.0	18.0	18.0	18.0	18.0	18.0	16.4	18.0	18.0	18.0
70°	13.1	13.1	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	6.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	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	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P684167

CATALOG NUMBER: LX6C25D010 EX6C259727 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1355.5	1357.1	1353.8	1355.5	1352.1	1355.5	1357.1	1360.3
5°	1352.1	1353.8	1350.5	1353.8	1350.5	1353.8	1355.5	1358.7
7.5°	1348.9	1352.1	1348.9	1352.1	1348.9	1352.1	1353.8	1357.1
10°	1348.9	1353.8	1350.5	1355.5	1350.5	1353.8	1357.1	1358.7
12.5°	1348.9	1353.8	1352.1	1355.5	1353.8	1357.1	1360.3	1363.6
15°	1345.6	1350.5	1347.3	1352.1	1350.5	1352.1	1358.7	1358.7
17.5°	1327.6	1332.5	1332.5	1335.8	1335.8	1340.7	1344.0	1347.3
20°	1304.7	1309.6	1307.9	1312.9	1312.9	1317.8	1321.1	1324.3
22.5°	1270.3	1276.9	1275.2	1280.1	1278.5	1281.8	1288.3	1286.7
25°	1226.1	1234.3	1232.7	1235.9	1234.3	1234.3	1237.6	1239.2
27.5°	1172.1	1177.0	1175.3	1178.7	1175.3	1178.7	1181.9	1183.5
30°	1101.7	1105.0	1103.3	1105.0	1103.3	1106.6	1108.2	1111.5
32.5°	1016.6	1021.5	1016.6	1019.8	1018.2	1018.2	1024.8	1021.5
35°	915.1	916.7	918.3	918.3	915.1	916.7	920.0	920.0
37.5°	802.1	810.3	800.5	805.4	803.8	803.8	803.8	808.7
40°	684.3	685.9	682.6	682.6	682.6	681.0	687.6	685.9
42.5°	572.9	574.6	572.9	568.1	569.7	569.7	574.6	568.1
45°	464.9	468.2	466.6	466.6	463.3	463.3	464.9	461.6
47.5°	368.3	371.6	366.7	368.3	365.0	368.3	366.7	370.0
50°	279.9	283.2	281.6	283.2	283.2	279.9	284.8	278.3
52.5°	209.5	211.1	209.5	207.9	206.3	206.3	209.5	207.9
55°	149.0	147.3	147.3	147.3	149.0	149.0	147.3	145.7
57.5°	99.8	99.8	98.2	98.2	99.8	96.6	98.2	96.6
60°	63.8	63.8	63.8	63.8	62.2	63.8	63.8	63.8
62.5°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
65°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
67.5°	16.4	18.0	18.0	18.0	16.4	16.4	16.4	16.4
70°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	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)