

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: P684169

Luminaire Tested: **LX6C25D010 EX6C259730 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684169  
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 EX6C259730 6LCSWH  
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

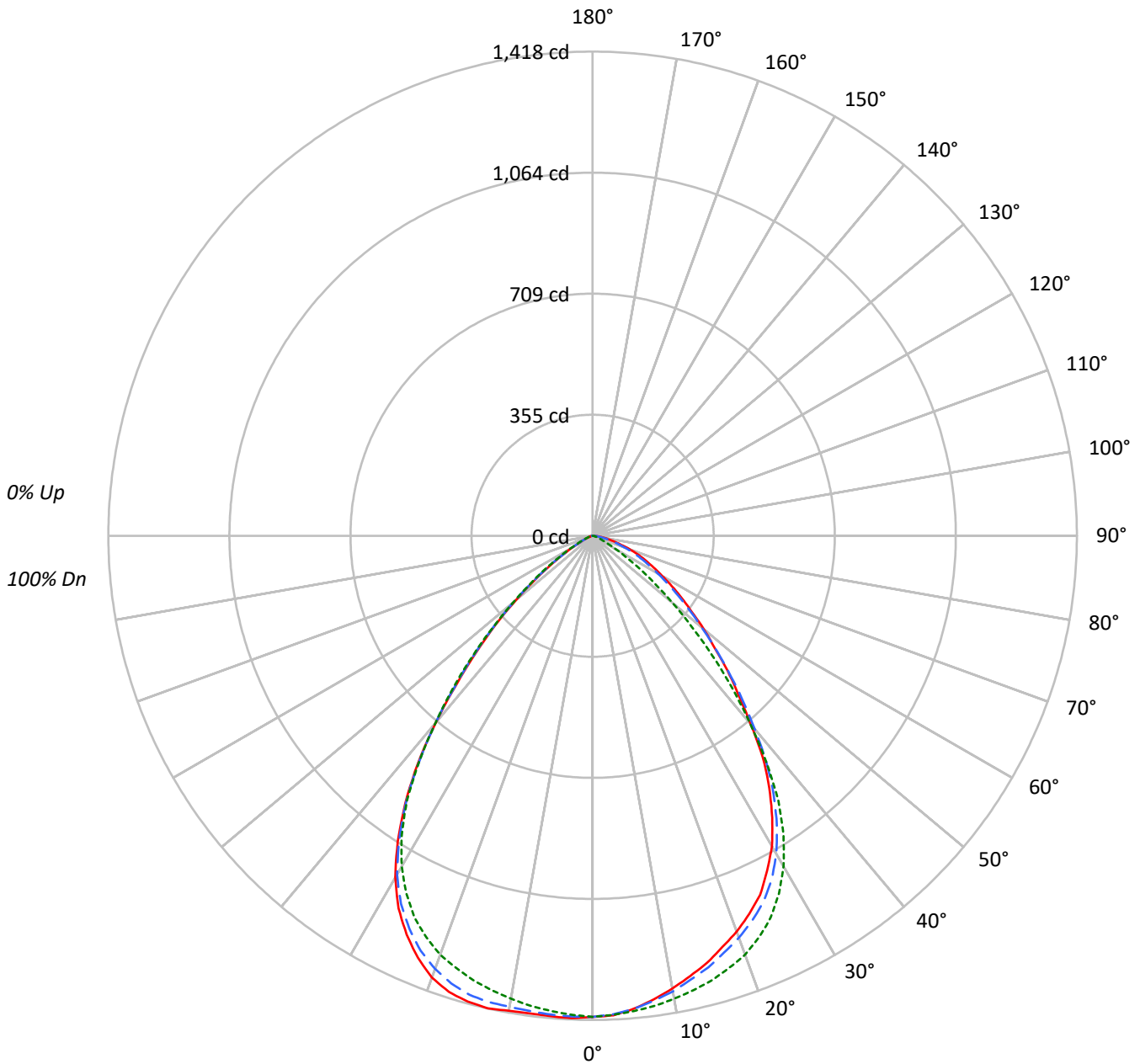
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2364.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 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°	77247	77247	77247
5°	76513	76882	77729
10°	74932	76635	78628
15°	73502	76493	80165
20°	71978	76149	80314
25°	70202	74629	77920
30°	66466	70777	73144
35°	60365	63436	64005
40°	51518	51267	51024
45°	43276	38392	37205
50°	36144	25978	24673
55°	30412	15942	14480
60°	25755	8398	7280
65°	22298	4410	3528
70°	18545	2725	1907
75°	13704	1800	1080
80°	10734	1073	537
85°	8554	1069	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	5.6
10°-20°	380.2	16.1
20°-30°	561.5	23.8
30°-40°	578.7	24.5
40°-50°	399.7	16.9
50°-60°	197.0	8.3
60°-70°	79.8	3.4
70°-80°	28.4	1.2
80°-90°	5.9	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°	1074.5	45.5
0°-40°	1653.2	69.9
0°-60°	2249.8	95.2
0°-90°	2364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1409	1409	1409	1409	1409	
5°	1390	1390	1397	1407	1412	131
15°	1295	1309	1348	1392	1412	365
25°	1161	1183	1234	1270	1288	531
35°	902	924	948	953	956	559
45°	558	562	495	488	480	431
55°	318	306	167	157	152	288
65°	172	155	34	27	27	171
75°	65	54	8	5	5	73
85°	14	10	2	0	0	17
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°	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1
2.5°	1405.7	1400.6	1404.0	1397.1	1405.7	1397.1	1398.9	1400.6	1398.9	1400.6	1402.3
5°	1390.4	1385.2	1390.4	1381.9	1390.4	1385.2	1385.2	1387.0	1387.0	1388.6	1390.4
7.5°	1370.0	1364.8	1370.0	1361.4	1371.6	1366.6	1366.6	1370.0	1368.2	1370.0	1373.3
10°	1346.1	1339.3	1344.4	1339.3	1349.5	1342.7	1346.1	1346.1	1346.1	1351.2	1354.7
12.5°	1320.6	1313.8	1320.6	1312.1	1322.3	1317.2	1318.9	1324.0	1325.7	1329.1	1330.8
15°	1295.1	1286.6	1290.0	1284.8	1295.1	1290.0	1291.7	1298.5	1298.5	1303.6	1308.7
17.5°	1262.8	1255.9	1262.8	1255.9	1264.4	1261.0	1264.4	1269.5	1269.5	1274.7	1279.7
20°	1233.8	1227.0	1232.1	1227.0	1237.2	1232.1	1233.8	1240.6	1242.3	1247.4	1252.5
22.5°	1198.1	1192.9	1196.3	1191.3	1201.5	1198.1	1199.8	1206.6	1208.3	1211.7	1220.2
25°	1160.6	1150.4	1155.5	1152.1	1162.3	1157.2	1160.6	1167.4	1170.9	1175.9	1182.8
27.5°	1106.2	1101.0	1104.4	1104.4	1112.9	1107.9	1109.6	1116.4	1121.5	1126.6	1135.1
30°	1050.0	1041.5	1044.9	1046.6	1053.4	1050.0	1053.4	1060.2	1061.9	1068.7	1075.5
32.5°	978.6	975.1	981.9	978.6	981.9	981.9	983.6	988.7	992.1	995.6	1004.1
35°	902.0	895.2	902.0	898.6	907.1	902.0	907.1	912.2	912.2	919.0	924.1
37.5°	818.6	810.1	813.4	813.4	816.8	815.2	815.2	823.7	825.3	830.5	835.6
40°	719.9	716.4	723.3	721.5	723.3	723.3	724.9	730.1	733.5	735.2	736.9
42.5°	631.4	633.0	634.8	634.8	634.8	634.8	634.8	641.6	639.9	645.0	646.7
45°	558.2	551.4	554.8	553.1	558.2	553.1	558.2	563.3	559.9	565.0	561.6
47.5°	483.3	483.3	483.3	481.6	485.0	483.3	486.7	488.4	488.4	488.4	486.7
50°	423.8	418.7	420.3	420.3	422.0	420.3	423.8	425.4	425.4	422.0	415.3
52.5°	365.9	364.2	364.2	367.6	367.6	365.9	365.9	365.9	365.9	360.8	357.4
55°	318.2	314.9	316.5	316.5	316.5	316.5	318.2	316.5	316.5	311.4	306.3
57.5°	275.7	272.3	272.3	272.3	274.0	272.3	272.3	272.3	270.6	265.5	258.7
60°	234.9	233.1	234.9	234.9	236.5	234.9	234.9	234.9	231.5	226.4	219.5
62.5°	200.8	200.8	200.8	202.5	202.5	200.8	200.8	199.1	197.4	190.6	183.8
65°	171.9	170.2	171.9	171.9	173.6	173.6	171.9	170.2	168.5	161.7	154.9
67.5°	143.0	141.2	143.0	143.0	144.6	143.0	143.0	143.0	137.8	134.5	127.6
70°	115.7	114.0	114.0	114.0	115.7	112.3	114.0	114.0	110.6	105.5	98.7
72.5°	88.5	88.5	88.5	88.5	88.5	88.5	86.8	86.8	83.4	78.3	74.9
75°	64.7	64.7	66.4	66.4	64.7	64.7	64.7	63.0	61.2	57.9	54.5
77.5°	47.7	47.7	47.7	47.7	45.9	45.9	45.9	44.2	42.6	40.8	37.4
80°	34.0	34.0	34.0	32.3	34.0	32.3	32.3	32.3	28.9	27.2	25.5
82.5°	23.8	22.1	22.1	22.1	22.1	22.1	22.1	20.4	20.4	18.8	17.0
85°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	11.9	10.2	10.2
87.5°	6.8	8.5	8.5	8.5	8.5	8.5	8.5	6.8	6.8	6.8	5.1
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°	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1
2.5°	1402.3	1402.3	1405.7	1400.6	1409.1	1404.0	1402.3	1410.8	1405.7	1404.0	1407.4
5°	1390.4	1392.1	1393.8	1390.4	1398.9	1393.8	1393.8	1402.3	1398.9	1397.1	1402.3
7.5°	1375.1	1376.7	1380.1	1378.5	1385.2	1381.9	1383.6	1392.1	1388.6	1388.6	1393.8
10°	1356.3	1359.7	1363.2	1363.2	1371.6	1368.2	1368.2	1378.5	1375.1	1376.7	1383.6
12.5°	1334.2	1339.3	1344.4	1346.1	1354.7	1349.5	1351.2	1363.2	1361.4	1363.2	1370.0
15°	1310.4	1317.2	1322.3	1322.3	1332.5	1327.4	1332.5	1344.4	1341.0	1347.8	1356.3
17.5°	1283.2	1290.0	1296.7	1298.5	1308.7	1305.3	1312.1	1324.0	1324.0	1327.4	1337.6
20°	1257.6	1266.1	1269.5	1274.7	1284.8	1283.2	1286.6	1300.2	1300.2	1305.3	1315.5
22.5°	1223.6	1232.1	1238.9	1244.0	1252.5	1252.5	1257.6	1269.5	1269.5	1272.9	1283.2
25°	1186.2	1196.3	1201.5	1206.6	1215.1	1213.4	1218.5	1228.7	1230.4	1233.8	1244.0
27.5°	1138.5	1147.0	1153.8	1157.2	1169.1	1162.3	1167.4	1179.4	1177.6	1181.0	1189.5
30°	1079.0	1087.5	1094.3	1094.3	1104.4	1104.4	1109.6	1114.7	1114.7	1118.1	1124.9
32.5°	1009.1	1019.4	1019.4	1024.5	1031.3	1024.5	1031.3	1038.1	1034.7	1039.8	1044.9
35°	929.1	934.3	936.0	936.0	941.1	939.4	937.7	942.8	939.4	947.9	953.0
37.5°	832.2	839.0	835.6	839.0	837.3	832.2	832.2	840.7	833.9	835.6	840.7
40°	738.6	738.6	736.9	728.4	730.1	724.9	723.3	724.9	718.2	716.4	723.3
42.5°	641.6	639.9	634.8	622.9	624.5	616.0	609.2	609.2	605.8	604.1	605.8
45°	554.8	549.7	541.1	527.6	524.1	517.3	503.7	500.3	495.2	495.2	496.9
47.5°	474.8	468.0	454.4	439.1	430.6	422.0	408.4	403.3	394.8	391.4	394.8
50°	408.4	396.5	379.5	357.4	348.8	338.7	325.0	316.5	308.0	304.6	302.9
52.5°	347.2	330.2	313.1	285.9	279.1	268.9	250.2	241.6	233.1	226.4	226.4
55°	294.4	279.1	255.3	229.7	219.5	209.3	190.6	178.7	170.2	166.8	163.4
57.5°	246.8	229.7	207.6	180.4	170.2	160.0	141.2	129.3	120.8	115.7	112.3
60°	207.6	188.9	166.8	143.0	131.1	120.8	102.1	90.2	81.7	76.6	73.1
62.5°	170.2	154.9	132.7	110.6	100.4	90.2	74.9	63.0	54.5	51.1	45.9
65°	143.0	127.6	107.2	88.5	80.0	69.8	56.2	45.9	39.2	34.0	30.7
67.5°	115.7	103.8	86.8	69.8	61.2	54.5	42.6	34.0	27.2	23.8	22.1
70°	91.9	80.0	66.4	52.7	47.7	40.8	32.3	23.8	20.4	17.0	15.3
72.5°	68.1	59.6	49.3	39.2	34.0	30.7	22.1	18.8	13.6	11.9	10.2
75°	49.3	42.6	35.7	27.2	23.8	22.1	17.0	11.9	10.2	8.5	6.8
77.5°	34.0	30.7	23.8	18.8	17.0	15.3	11.9	8.5	6.8	5.1	5.1
80°	22.1	18.8	15.3	11.9	11.9	10.2	6.8	5.1	5.1	3.4	3.4
82.5°	13.6	11.9	10.2	8.5	6.8	6.8	5.1	3.4	3.4	1.7	1.7
85°	8.5	6.8	5.1	5.1	3.4	3.4	3.4	1.7	1.7	1.7	1.7
87.5°	3.4	3.4	3.4	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°	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1
2.5°	1407.4	1407.4	1410.8	1405.7	1409.1	1409.1	1412.5	1405.7	1409.1	1410.8	1414.2
5°	1400.6	1402.3	1405.7	1404.0	1405.7	1405.7	1409.1	1400.6	1407.4	1407.4	1412.5
7.5°	1393.8	1393.8	1397.1	1395.5	1398.9	1400.6	1404.0	1397.1	1404.0	1404.0	1409.1
10°	1385.2	1385.2	1390.4	1388.6	1393.8	1395.5	1400.6	1393.8	1400.6	1402.3	1407.4
12.5°	1373.3	1375.1	1380.1	1380.1	1385.2	1388.6	1393.8	1390.4	1398.9	1400.6	1407.4
15°	1359.7	1363.2	1370.0	1368.2	1373.3	1378.5	1385.2	1380.1	1392.1	1395.5	1402.3
17.5°	1342.7	1346.1	1351.2	1351.2	1356.3	1359.7	1368.2	1364.8	1375.1	1376.7	1385.2
20°	1317.2	1322.3	1329.1	1327.4	1332.5	1335.9	1342.7	1339.3	1349.5	1352.9	1361.4
22.5°	1286.6	1290.0	1295.1	1295.1	1300.2	1303.6	1310.4	1305.3	1315.5	1317.2	1324.0
25°	1245.7	1249.1	1252.5	1254.2	1259.3	1261.0	1264.4	1261.0	1269.5	1271.3	1279.7
27.5°	1192.9	1194.7	1199.8	1199.8	1203.2	1204.8	1210.0	1203.2	1215.1	1215.1	1220.2
30°	1130.0	1128.3	1135.1	1131.7	1135.1	1135.1	1140.2	1136.8	1145.3	1141.9	1147.0
32.5°	1046.6	1050.0	1050.0	1046.6	1053.4	1051.7	1051.7	1048.3	1053.4	1055.1	1058.5
35°	949.6	954.7	954.7	956.4	958.1	953.0	954.7	944.5	953.0	954.7	956.4
37.5°	844.1	839.0	842.4	837.3	845.8	835.6	835.6	828.8	835.6	835.6	837.3
40°	723.3	721.5	724.9	721.5	719.9	718.2	714.8	709.6	716.4	713.0	718.2
42.5°	609.2	607.5	607.5	604.1	602.5	602.5	599.1	595.6	593.9	593.9	602.5
45°	491.8	495.2	491.8	490.1	493.5	490.1	491.8	485.0	488.4	485.0	488.4
47.5°	393.1	394.8	391.4	388.0	393.1	388.0	388.0	382.9	389.7	389.7	386.3
50°	304.6	302.9	299.5	302.9	301.2	301.2	301.2	296.1	299.5	294.4	297.8
52.5°	224.6	223.0	223.0	221.2	223.0	221.2	221.2	219.5	219.5	217.8	219.5
55°	163.4	161.7	158.3	158.3	158.3	160.0	158.3	156.6	156.6	154.9	156.6
57.5°	110.6	107.2	107.2	107.2	107.2	105.5	105.5	103.8	105.5	103.8	105.5
60°	71.5	71.5	68.1	68.1	68.1	68.1	68.1	66.4	68.1	68.1	68.1
62.5°	44.2	44.2	42.6	40.8	42.6	40.8	40.8	40.8	42.6	40.8	42.6
65°	28.9	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
67.5°	20.4	18.8	18.8	18.8	18.8	18.8	18.8	17.0	18.8	18.8	18.8
70°	13.6	13.6	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	6.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	5.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	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: P684169

CATALOG NUMBER: LX6C25D010 EX6C259730 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1	1409.1
2.5°	1409.1	1410.8	1407.4	1409.1	1405.7	1409.1	1410.8	1414.2
5°	1405.7	1407.4	1404.0	1407.4	1404.0	1407.4	1409.1	1412.5
7.5°	1402.3	1405.7	1402.3	1405.7	1402.3	1405.7	1407.4	1410.8
10°	1402.3	1407.4	1404.0	1409.1	1404.0	1407.4	1410.8	1412.5
12.5°	1402.3	1407.4	1405.7	1409.1	1407.4	1410.8	1414.2	1417.6
15°	1398.9	1404.0	1400.6	1405.7	1404.0	1405.7	1412.5	1412.5
17.5°	1380.1	1385.2	1385.2	1388.6	1388.6	1393.8	1397.1	1400.6
20°	1356.3	1361.4	1359.7	1364.8	1364.8	1370.0	1373.3	1376.7
22.5°	1320.6	1327.4	1325.7	1330.8	1329.1	1332.5	1339.3	1337.6
25°	1274.7	1283.2	1281.4	1284.8	1283.2	1283.2	1286.6	1288.2
27.5°	1218.5	1223.6	1221.9	1225.3	1221.9	1225.3	1228.7	1230.4
30°	1145.3	1148.7	1147.0	1148.7	1147.0	1150.4	1152.1	1155.5
32.5°	1056.8	1061.9	1056.8	1060.2	1058.5	1058.5	1065.3	1061.9
35°	951.3	953.0	954.7	954.7	951.3	953.0	956.4	956.4
37.5°	833.9	842.4	832.2	837.3	835.6	835.6	835.6	840.7
40°	711.4	713.0	709.6	709.6	709.6	707.9	714.8	713.0
42.5°	595.6	597.3	595.6	590.5	592.2	592.2	597.3	590.5
45°	483.3	486.7	485.0	485.0	481.6	481.6	483.3	479.9
47.5°	382.9	386.3	381.2	382.9	379.5	382.9	381.2	384.6
50°	291.0	294.4	292.7	294.4	294.4	291.0	296.1	289.3
52.5°	217.8	219.5	217.8	216.1	214.4	214.4	217.8	216.1
55°	154.9	153.1	153.1	153.1	154.9	154.9	153.1	151.5
57.5°	103.8	103.8	102.1	102.1	103.8	100.4	102.1	100.4
60°	66.4	66.4	66.4	66.4	64.7	66.4	66.4	66.4
62.5°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
65°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
67.5°	17.0	18.8	18.8	18.8	17.0	17.0	17.0	17.0
70°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)