

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: P684170

Luminaire Tested: **LX6C30D010 EX6C309027 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684170
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: LX6C30D010 EX6C309027 6LBLWWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

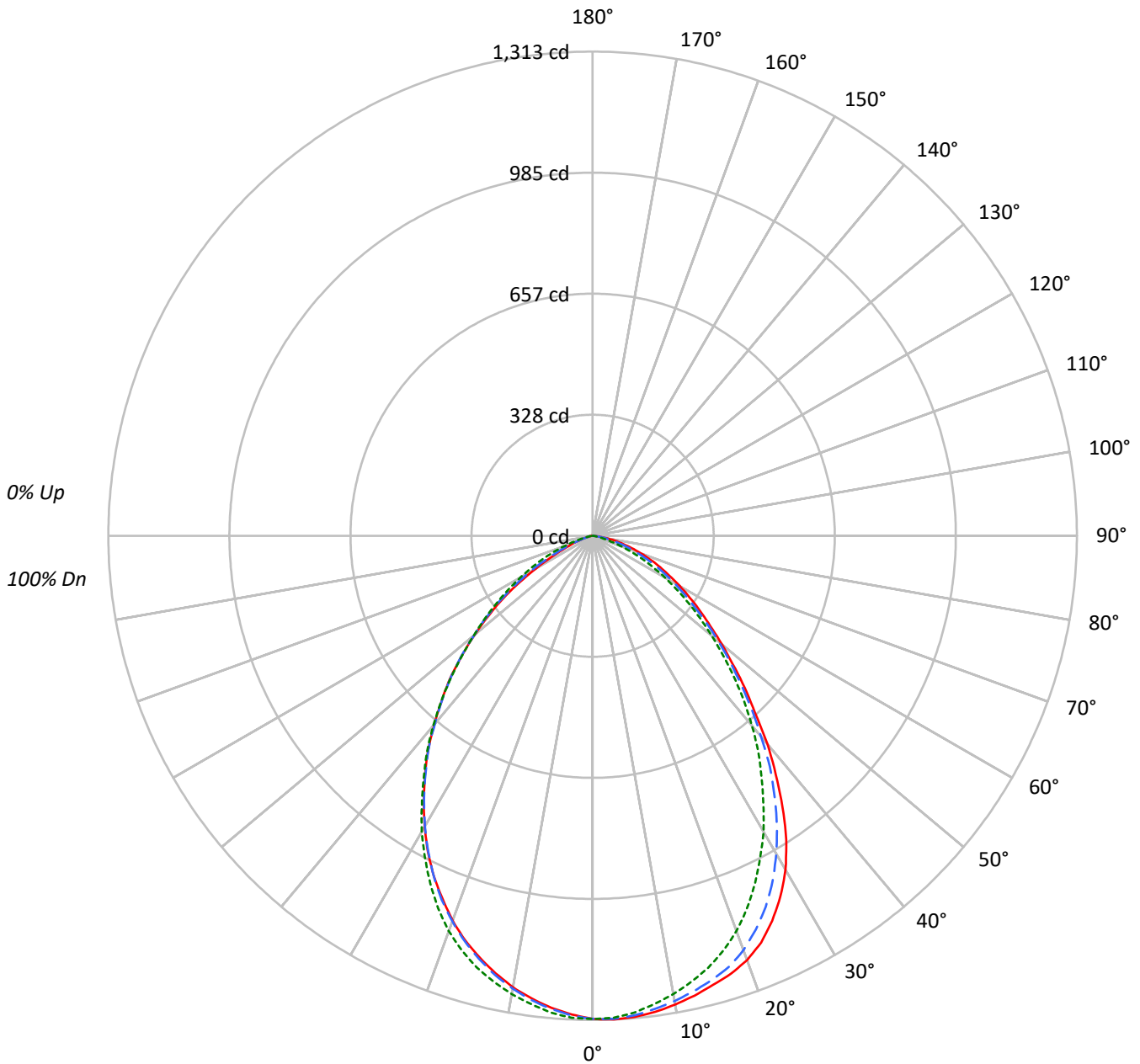
Lumens per Lamp: N/A
Luminaire Lumens: 2383.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
Input Current (A_{in}): 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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	71820	71820	71820
5°	72067	71417	70713
10°	71848	70256	69226
15°	71578	68803	67202
20°	71418	66535	64767
25°	69681	62967	61582
30°	66206	58648	57673
35°	60090	53398	53050
40°	52720	48061	47804
45°	45198	41989	42338
50°	38907	35794	35607
55°	34006	30221	28367
60°	29888	24768	19362
65°	26164	19198	11648
70°	22311	12919	6844
75°	18004	6714	3728
80°	12502	2652	2084
85°	4969	818	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	5.2
10°-20°	342.8	14.4
20°-30°	487.8	20.5
30°-40°	513.4	21.5
40°-50°	427.9	18.0
50°-60°	289.1	12.1
60°-70°	146.6	6.2
70°-80°	47.3	2.0
80°-90°	5.4	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°	953.3	40.0
0°-40°	1466.8	61.6
0°-60°	2183.7	91.6
0°-90°	2383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1310	1310	1310	1310	1310	
5°	1310	1306	1298	1288	1285	124
15°	1261	1248	1212	1188	1184	356
25°	1152	1110	1041	1019	1018	528
35°	898	859	798	790	793	559
45°	583	568	542	544	546	451
55°	356	339	316	306	297	320
65°	202	182	148	107	90	201
75°	85	66	32	17	18	92
85°	8	4	1	2	2	14
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°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1313.2	1313.2	1313.2	1313.2	1313.2	1313.2	1312.7	1312.7	1311.8	1311.8	1311.4
5°	1309.6	1310.1	1310.1	1309.6	1309.6	1308.8	1308.8	1308.3	1307.0	1306.1	1305.7
7.5°	1302.2	1302.2	1301.7	1301.3	1300.8	1299.5	1299.1	1297.8	1296.9	1296.0	1294.2
10°	1290.7	1290.7	1290.3	1289.4	1288.9	1288.1	1288.1	1286.3	1284.5	1282.3	1281.0
12.5°	1277.1	1277.5	1276.6	1276.2	1274.9	1274.4	1273.5	1271.3	1270.0	1267.4	1265.2
15°	1261.2	1262.1	1262.1	1260.3	1259.0	1258.6	1257.2	1255.9	1252.8	1250.2	1247.6
17.5°	1245.8	1246.7	1245.8	1244.5	1243.1	1241.4	1240.5	1237.9	1233.9	1230.4	1226.4
20°	1224.2	1225.5	1223.8	1221.6	1218.9	1218.5	1217.2	1212.8	1207.0	1201.8	1196.0
22.5°	1193.8	1192.9	1191.6	1190.7	1186.3	1183.7	1181.9	1176.2	1170.0	1163.0	1156.0
25°	1152.0	1153.8	1151.1	1147.1	1144.9	1142.3	1137.9	1131.7	1126.0	1118.5	1110.2
27.5°	1102.7	1102.7	1099.1	1097.8	1093.0	1089.5	1087.3	1081.1	1073.6	1066.1	1056.9
30°	1045.9	1043.2	1043.2	1037.1	1033.1	1031.8	1029.6	1019.4	1012.8	1004.9	995.7
32.5°	977.2	976.7	975.0	971.0	965.7	961.3	961.3	954.3	945.5	935.8	930.0
35°	897.9	898.3	897.5	893.1	893.1	887.8	886.9	880.7	873.7	866.2	859.2
37.5°	816.0	817.8	816.0	813.8	812.5	812.0	808.1	803.7	798.4	794.0	788.7
40°	736.7	734.1	735.0	730.6	731.0	730.1	728.4	722.6	719.6	715.2	709.4
42.5°	651.3	653.9	654.8	652.2	651.3	649.5	651.3	649.1	645.6	643.4	638.1
45°	583.0	580.4	581.7	580.8	581.3	577.8	576.4	575.6	574.2	570.3	568.1
47.5°	515.2	515.7	515.2	513.5	512.6	512.6	510.8	508.2	508.2	505.5	503.8
50°	456.2	456.2	457.1	454.9	454.0	452.3	452.7	450.1	448.3	446.1	444.8
52.5°	402.1	402.5	400.7	401.2	400.3	400.3	398.5	396.8	395.0	391.0	390.2
55°	355.8	356.3	354.1	354.9	352.3	351.0	350.1	347.4	347.4	343.5	338.6
57.5°	312.7	312.2	311.8	310.5	308.7	307.4	306.1	303.0	301.6	299.0	295.0
60°	272.6	272.1	271.3	270.8	269.5	266.4	266.4	264.2	259.8	257.2	253.2
62.5°	234.7	234.7	234.3	233.0	231.6	230.3	229.4	227.7	223.3	220.2	216.7
65°	201.7	201.2	199.9	197.7	196.8	196.8	193.8	192.4	188.9	185.8	181.9
67.5°	170.0	168.2	167.3	167.8	165.1	165.1	162.5	160.3	157.2	151.9	148.8
70°	139.2	138.3	137.4	136.5	136.1	134.3	133.0	130.3	127.3	123.3	118.5
72.5°	111.4	111.4	110.1	109.2	107.9	106.1	105.2	103.0	99.5	95.1	91.6
75°	85.0	85.0	85.0	83.2	82.3	81.5	78.8	77.5	73.5	70.9	66.5
77.5°	62.5	61.7	60.3	59.9	59.0	58.1	56.8	54.6	51.1	48.0	45.4
80°	39.6	41.0	39.6	39.6	37.4	36.6	36.1	33.5	32.1	29.5	27.3
82.5°	22.0	22.5	21.6	21.1	19.8	19.4	19.4	17.6	16.7	15.0	13.7
85°	7.9	8.4	7.9	7.9	7.0	7.5	7.0	6.6	5.7	4.8	4.4
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1311.4	1310.5	1310.5	1310.1	1309.6	1309.6	1309.6	1309.2	1308.3	1308.3	1307.9
5°	1304.8	1303.9	1302.6	1301.7	1301.3	1300.8	1300.4	1300.0	1298.2	1297.8	1296.4
7.5°	1292.9	1292.0	1289.8	1288.9	1287.6	1287.2	1285.4	1284.5	1282.8	1281.0	1280.1
10°	1278.8	1276.6	1274.9	1272.7	1271.8	1270.5	1268.2	1265.6	1264.3	1262.1	1260.3
12.5°	1263.0	1260.3	1256.8	1254.2	1253.3	1251.1	1247.6	1245.4	1242.3	1238.7	1235.7
15°	1243.1	1240.1	1237.0	1232.1	1230.8	1228.2	1224.7	1220.2	1215.8	1212.3	1208.8
17.5°	1221.6	1216.7	1211.9	1206.6	1202.6	1201.3	1195.6	1189.4	1185.5	1179.3	1175.3
20°	1191.2	1184.6	1176.7	1171.4	1167.8	1163.9	1157.3	1150.7	1145.8	1140.5	1134.8
22.5°	1149.4	1143.2	1133.9	1126.0	1123.4	1117.6	1111.9	1105.8	1099.6	1093.9	1086.8
25°	1100.0	1093.4	1084.2	1076.3	1071.8	1069.2	1058.2	1052.0	1045.9	1041.0	1036.2
27.5°	1049.4	1037.5	1031.3	1019.0	1015.0	1014.2	1004.0	997.4	990.8	984.2	978.0
30°	986.9	977.6	968.4	959.6	954.3	951.2	943.7	935.3	930.9	926.5	920.4
32.5°	922.1	913.8	902.3	893.9	890.0	885.6	879.0	873.2	866.6	861.8	860.5
35°	853.0	843.7	834.0	827.9	827.0	821.7	815.1	810.3	805.4	797.9	796.6
37.5°	779.0	773.7	767.1	758.3	754.3	754.3	747.7	744.2	738.1	737.6	734.1
40°	706.3	704.1	694.0	691.4	690.5	684.3	682.6	676.4	672.0	671.6	666.3
42.5°	634.6	628.8	627.1	622.7	618.7	617.8	613.9	611.2	609.5	606.8	604.2
45°	563.2	561.9	557.5	554.4	553.1	551.3	550.0	544.7	543.8	541.6	540.3
47.5°	501.6	498.1	494.1	490.6	490.1	487.5	484.4	484.4	479.6	479.1	478.2
50°	440.4	437.7	435.5	430.7	431.6	428.0	427.6	423.6	421.4	419.7	421.9
52.5°	386.6	381.4	380.5	376.5	375.2	375.6	370.8	369.5	368.6	366.8	365.9
55°	335.6	332.9	329.4	326.8	324.5	322.3	320.6	320.6	315.7	316.2	314.0
57.5°	290.6	288.4	284.0	280.1	279.2	276.5	274.3	272.1	271.7	268.6	266.4
60°	250.6	246.6	240.9	239.1	236.5	234.3	232.1	229.4	228.1	225.9	221.9
62.5°	213.1	206.5	204.3	200.8	197.7	196.4	192.9	189.8	187.6	184.5	181.4
65°	177.5	172.6	168.7	164.7	164.3	160.7	157.7	155.0	150.6	148.0	142.2
67.5°	144.9	140.5	136.1	132.1	129.0	128.1	123.3	120.2	117.1	111.9	107.0
70°	114.9	110.5	107.0	102.2	100.8	97.3	93.8	90.7	85.4	80.6	76.6
72.5°	87.6	82.8	78.8	75.3	73.1	70.0	66.5	63.0	57.7	52.8	49.3
75°	62.5	59.0	55.0	51.5	49.8	48.0	44.0	40.1	36.6	31.7	28.6
77.5°	42.3	38.8	35.2	32.1	29.9	28.6	26.0	22.9	19.8	17.2	15.0
80°	24.7	22.5	19.8	17.2	16.7	15.4	13.2	11.4	9.7	8.4	6.6
82.5°	11.9	10.6	8.8	7.5	6.6	6.2	5.3	4.4	3.5	3.1	3.1
85°	3.5	3.1	2.6	2.2	1.8	1.8	1.3	1.3	1.3	1.3	1.3
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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1306.6	1306.1	1305.7	1305.2	1304.4	1304.4	1303.0	1302.2	1302.2	1301.3	1300.8
5°	1295.1	1293.8	1293.3	1292.5	1291.6	1291.1	1289.4	1288.9	1288.1	1287.2	1287.2
7.5°	1278.8	1277.1	1275.3	1274.4	1274.0	1272.7	1271.8	1271.3	1270.0	1269.1	1267.4
10°	1257.2	1255.9	1253.7	1252.8	1252.0	1251.1	1248.9	1247.6	1247.1	1246.2	1245.4
12.5°	1232.1	1230.4	1228.2	1226.4	1225.5	1224.2	1222.0	1220.7	1220.7	1218.9	1218.9
15°	1205.3	1202.6	1198.7	1196.9	1196.5	1193.8	1192.1	1190.3	1188.1	1187.2	1187.2
17.5°	1170.9	1166.5	1163.0	1163.0	1161.2	1158.6	1156.0	1154.6	1153.3	1151.6	1150.7
20°	1130.4	1127.3	1123.4	1123.4	1119.4	1118.5	1115.9	1115.4	1112.4	1112.8	1111.5
22.5°	1081.5	1079.8	1077.6	1075.8	1073.6	1071.0	1069.6	1070.1	1068.8	1068.3	1067.9
25°	1032.2	1027.4	1024.7	1023.8	1023.0	1020.8	1019.9	1019.4	1019.4	1018.1	1018.6
27.5°	975.4	971.9	968.4	969.7	967.9	966.6	965.7	964.4	965.3	964.8	965.3
30°	917.3	912.9	910.7	911.6	911.1	907.6	909.4	908.9	909.4	909.4	910.2
32.5°	856.1	853.0	852.5	853.0	849.0	849.5	847.7	850.3	850.8	853.4	851.2
35°	794.0	792.2	789.1	788.7	789.1	788.7	788.7	790.5	790.0	792.7	791.8
37.5°	730.1	729.2	726.2	727.0	725.3	728.4	729.2	728.4	731.4	730.6	730.1
40°	667.6	666.3	664.5	668.0	665.8	664.1	667.2	664.5	665.4	668.0	668.0
42.5°	604.2	602.0	602.0	602.0	601.5	601.5	602.9	604.2	603.3	603.7	607.3
45°	540.3	539.9	538.6	539.4	539.0	541.2	541.2	542.1	543.8	545.6	544.7
47.5°	478.7	477.8	479.1	478.2	478.7	477.4	478.2	480.9	483.1	480.0	483.1
50°	421.0	419.2	418.8	420.1	419.7	419.2	420.1	420.1	419.2	419.2	422.3
52.5°	365.9	364.2	362.9	365.1	363.7	364.2	362.4	362.4	363.3	362.4	361.1
55°	314.4	313.1	311.3	312.2	310.0	309.6	307.8	307.8	306.5	305.6	303.0
57.5°	265.1	264.2	260.3	259.8	260.3	257.2	254.1	252.8	249.2	248.4	247.9
60°	221.5	216.7	214.5	211.8	210.1	208.7	205.2	203.0	197.7	194.6	194.2
62.5°	176.1	173.9	171.3	167.3	166.5	162.1	158.5	152.8	150.2	146.2	142.2
65°	139.6	133.9	129.9	127.7	124.2	120.2	116.3	110.1	107.0	102.2	98.2
67.5°	102.2	97.3	92.0	90.3	87.2	82.3	78.4	73.1	70.5	66.1	64.7
70°	70.0	65.6	61.7	59.0	56.8	52.0	48.0	46.2	43.6	42.7	42.7
72.5°	44.9	41.0	36.6	35.2	33.5	30.8	28.2	27.3	28.2	27.7	27.7
75°	25.1	22.9	19.8	18.5	18.5	17.6	17.2	17.2	17.2	17.2	17.2
77.5°	12.8	11.4	10.6	10.1	10.1	10.1	10.6	10.6	10.6	11.0	10.6
80°	6.2	5.7	5.7	5.7	6.2	6.2	6.2	6.2	6.2	6.6	6.2
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.5	3.5	3.5	3.5	3.5
85°	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P684170

CATALOG NUMBER: LX6C30D010 EX6C309027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1300.4	1299.5	1299.5	1299.1	1299.1	1299.1	1299.1	1299.5
5°	1286.3	1285.9	1285.9	1285.0	1285.0	1285.0	1285.0	1285.0
7.5°	1267.4	1266.5	1266.9	1266.0	1266.0	1266.5	1266.0	1265.6
10°	1244.0	1243.6	1244.0	1244.0	1243.1	1242.7	1243.1	1243.6
12.5°	1217.6	1217.2	1216.3	1216.7	1216.7	1216.3	1215.8	1215.0
15°	1186.8	1186.3	1185.9	1185.5	1185.0	1185.5	1185.0	1184.1
17.5°	1150.7	1150.7	1150.2	1149.8	1149.4	1148.5	1148.9	1150.2
20°	1111.9	1111.5	1110.6	1111.0	1109.3	1108.4	1108.8	1110.2
22.5°	1067.4	1066.1	1067.0	1065.7	1065.7	1066.1	1065.7	1064.8
25°	1019.0	1017.2	1018.1	1018.6	1018.6	1018.1	1017.7	1018.1
27.5°	965.3	966.6	966.6	965.7	967.0	965.3	966.2	966.6
30°	910.2	908.9	908.5	910.2	912.9	910.7	910.7	911.1
32.5°	853.4	851.7	851.7	852.5	852.1	852.1	853.9	851.7
35°	792.7	793.5	790.0	792.2	793.1	792.2	792.7	792.7
37.5°	731.4	730.6	730.6	730.6	731.9	731.9	732.8	732.3
40°	671.1	669.4	668.9	669.8	668.0	669.4	669.4	668.0
42.5°	605.9	606.4	608.6	606.4	606.8	606.4	605.5	605.1
45°	545.6	546.9	546.1	545.6	546.1	544.3	544.7	546.1
47.5°	481.8	484.4	481.8	483.5	483.1	482.2	481.3	479.6
50°	421.9	422.7	422.3	421.9	421.4	421.0	418.8	417.5
52.5°	360.7	360.7	360.7	360.7	356.3	358.5	357.6	354.9
55°	300.8	302.1	300.3	300.3	297.2	297.2	296.4	296.8
57.5°	243.1	241.8	240.4	240.4	237.4	236.0	234.7	233.0
60°	189.4	188.0	186.3	184.1	181.0	181.0	180.1	176.6
62.5°	138.7	136.5	135.2	133.4	130.8	129.0	127.7	128.6
65°	95.1	92.9	91.2	91.2	91.2	90.3	89.8	89.8
67.5°	62.5	63.9	63.0	63.9	63.9	63.0	62.5	63.4
70°	43.2	43.2	42.7	42.7	42.7	42.7	42.3	42.7
72.5°	27.7	27.7	27.7	28.2	27.7	27.7	28.2	28.2
75°	17.6	17.6	17.6	18.1	17.6	17.6	18.1	17.6
77.5°	10.6	11.0	11.0	11.0	11.0	10.6	11.0	11.0
80°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)