

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: P684177

Luminaire Tested: **LX6C30D010 EX6C309030 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684177  
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 EX6C309030 6LBLWWH  
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

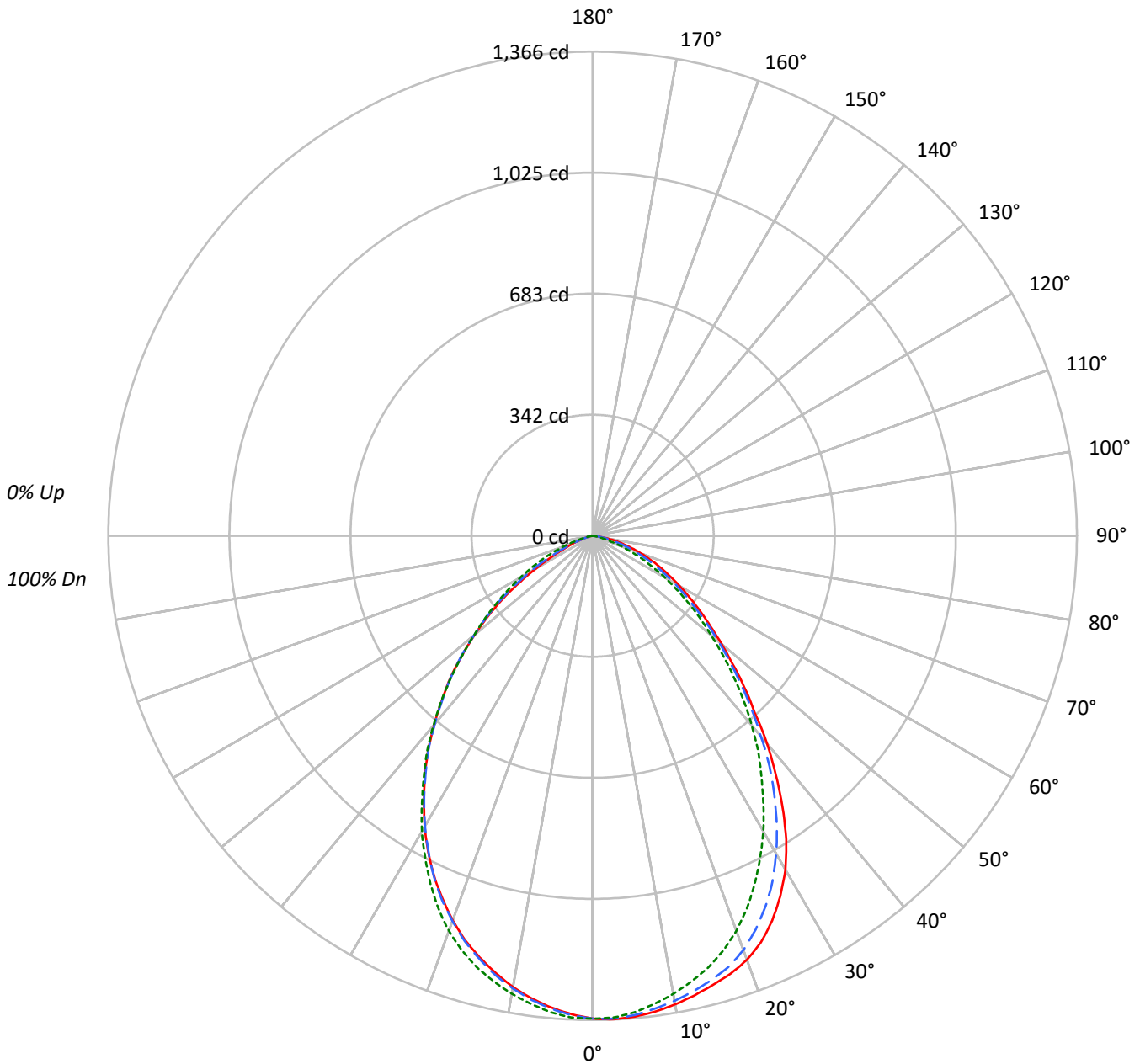
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2478.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 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<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	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	41	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°	74682	74682	74682
5°	74945	74262	73531
10°	74715	73056	71987
15°	74433	71550	69881
20°	74265	69189	67346
25°	72458	65478	64038
30°	68846	60990	59971
35°	62486	55533	55165
40°	54824	49972	49715
45°	47005	43663	44020
50°	40459	37218	37022
55°	35363	31425	29495
60°	31083	25755	20130
65°	27201	19963	12115
70°	23193	13432	7117
75°	18724	6990	3876
80°	13007	2747	2178
85°	5158	881	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	5.2
10°-20°	356.5	14.4
20°-30°	507.2	20.5
30°-40°	533.9	21.5
40°-50°	444.9	18.0
50°-60°	300.6	12.1
60°-70°	152.4	6.2
70°-80°	49.2	2.0
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°	991.3	40.0
0°-40°	1525.2	61.6
0°-60°	2270.7	91.6
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1362	1362	1362	1362	1362	
5°	1362	1358	1350	1339	1336	129
15°	1312	1297	1261	1236	1231	371
25°	1198	1154	1082	1060	1059	549
35°	934	893	830	822	824	581
45°	606	591	563	566	568	469
55°	370	352	329	319	309	333
65°	210	189	154	111	93	209
75°	88	69	33	18	18	95
85°	8	5	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°	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1365.5	1365.5	1365.5	1365.5	1365.5	1365.5	1365.1	1365.1	1364.1	1364.1	1363.7
5°	1361.9	1362.3	1362.3	1361.9	1361.9	1360.9	1360.9	1360.5	1359.1	1358.2	1357.7
7.5°	1354.1	1354.1	1353.6	1353.2	1352.7	1351.3	1350.9	1349.5	1348.6	1347.7	1345.8
10°	1342.2	1342.2	1341.7	1340.8	1340.3	1339.4	1339.4	1337.6	1335.8	1333.5	1332.1
12.5°	1328.0	1328.4	1327.5	1327.1	1325.7	1325.2	1324.3	1322.0	1320.6	1317.9	1315.6
15°	1311.5	1312.4	1312.4	1310.6	1309.2	1308.7	1307.4	1306.0	1302.8	1300.0	1297.3
17.5°	1295.5	1296.4	1295.5	1294.1	1292.7	1290.9	1290.0	1287.2	1283.1	1279.4	1275.3
20°	1273.0	1274.4	1272.6	1270.3	1267.5	1267.1	1265.7	1261.1	1255.2	1249.7	1243.7
22.5°	1241.4	1240.5	1239.1	1238.2	1233.6	1230.9	1229.1	1223.1	1216.7	1209.4	1202.0
25°	1197.9	1199.7	1197.0	1192.9	1190.6	1187.8	1183.3	1176.9	1170.9	1163.1	1154.4
27.5°	1146.6	1146.6	1143.0	1141.6	1136.6	1132.9	1130.6	1124.2	1116.4	1108.6	1099.0
30°	1087.6	1084.8	1084.8	1078.4	1074.3	1072.9	1070.6	1060.1	1053.2	1045.0	1035.4
32.5°	1016.1	1015.7	1013.8	1009.7	1004.2	999.6	999.6	992.3	983.2	973.1	967.1
35°	933.7	934.2	933.2	928.7	928.7	923.2	922.3	915.8	908.5	900.7	893.4
37.5°	848.5	850.4	848.5	846.2	844.9	844.4	840.3	835.7	830.2	825.6	820.1
40°	766.1	763.4	764.3	759.7	760.1	759.2	757.4	751.4	748.2	743.7	737.7
42.5°	677.3	680.0	680.9	678.2	677.3	675.4	677.3	675.0	671.3	669.0	663.5
45°	606.3	603.5	604.9	604.0	604.5	600.8	599.4	598.5	597.1	593.0	590.7
47.5°	535.8	536.2	535.8	533.9	533.0	533.0	531.2	528.4	528.4	525.7	523.9
50°	474.4	474.4	475.3	473.0	472.1	470.3	470.7	468.0	466.2	463.9	462.5
52.5°	418.1	418.5	416.7	417.2	416.2	416.2	414.4	412.6	410.8	406.6	405.7
55°	370.0	370.5	368.2	369.1	366.3	365.0	364.0	361.3	361.3	357.2	352.1
57.5°	325.1	324.7	324.2	322.8	321.0	319.6	318.3	315.0	313.7	310.9	306.8
60°	283.5	283.0	282.1	281.6	280.2	277.0	277.0	274.8	270.2	267.4	263.3
62.5°	244.1	244.1	243.6	242.2	240.9	239.5	238.6	236.7	232.2	229.0	225.3
65°	209.7	209.3	207.9	205.6	204.7	204.7	201.5	200.1	196.4	193.2	189.1
67.5°	176.8	174.9	174.0	174.5	171.7	171.7	169.0	166.7	163.5	158.0	154.8
70°	144.7	143.8	142.9	142.0	141.5	139.7	138.3	135.5	132.3	128.2	123.2
72.5°	115.9	115.9	114.5	113.6	112.2	110.4	109.4	107.2	103.5	98.9	95.2
75°	88.4	88.4	88.4	86.5	85.6	84.7	82.0	80.6	76.5	73.7	69.1
77.5°	65.0	64.1	62.7	62.3	61.4	60.4	59.1	56.8	53.1	49.9	47.2
80°	41.2	42.6	41.2	41.2	38.9	38.0	37.5	34.8	33.4	30.7	28.4
82.5°	22.9	23.4	22.4	22.0	20.6	20.1	20.1	18.3	17.4	15.6	14.2
85°	8.2	8.7	8.2	8.2	7.3	7.8	7.3	6.9	6.0	5.0	4.6
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1363.7	1362.8	1362.8	1362.3	1361.9	1361.9	1361.9	1361.4	1360.5	1360.5	1360.0
5°	1356.8	1355.9	1354.5	1353.6	1353.2	1352.7	1352.2	1351.8	1349.9	1349.5	1348.1
7.5°	1344.5	1343.5	1341.2	1340.3	1339.0	1338.5	1336.7	1335.8	1333.9	1332.1	1331.2
10°	1329.8	1327.5	1325.7	1323.4	1322.5	1321.1	1318.8	1316.1	1314.7	1312.4	1310.6
12.5°	1313.3	1310.6	1306.9	1304.2	1303.2	1300.9	1297.3	1295.0	1291.8	1288.1	1284.9
15°	1292.7	1289.5	1286.3	1281.3	1279.9	1277.1	1273.5	1268.9	1264.3	1260.7	1257.0
17.5°	1270.3	1265.2	1260.2	1254.7	1250.6	1249.2	1243.3	1236.8	1232.7	1226.3	1222.2
20°	1238.7	1231.8	1223.6	1218.1	1214.4	1210.3	1203.4	1196.5	1191.5	1186.0	1180.1
22.5°	1195.2	1188.8	1179.1	1170.9	1168.2	1162.2	1156.2	1149.8	1143.4	1137.5	1130.1
25°	1143.9	1137.0	1127.4	1119.2	1114.6	1111.8	1100.4	1094.0	1087.6	1082.5	1077.5
27.5°	1091.2	1078.9	1072.4	1059.6	1055.5	1054.6	1044.1	1037.2	1030.3	1023.5	1017.0
30°	1026.2	1016.6	1007.0	997.8	992.3	989.1	981.3	972.6	968.0	963.5	957.1
32.5°	958.9	950.2	938.3	929.6	925.5	920.9	914.0	908.1	901.2	896.1	894.8
35°	887.0	877.4	867.3	860.9	860.0	854.5	847.6	842.6	837.5	829.8	828.4
37.5°	810.1	804.6	797.7	788.5	784.4	784.4	777.5	773.9	767.5	767.0	763.4
40°	734.5	732.2	721.7	718.9	718.0	711.6	709.8	703.4	698.8	698.3	692.8
42.5°	659.9	653.9	652.1	647.5	643.4	642.5	638.3	635.6	633.8	631.0	628.3
45°	585.7	584.3	579.7	576.5	575.1	573.3	571.9	566.4	565.5	563.2	561.9
47.5°	521.6	517.9	513.8	510.1	509.7	506.9	503.7	503.7	498.7	498.2	497.3
50°	457.9	455.2	452.9	447.8	448.8	445.1	444.6	440.5	438.2	436.4	438.7
52.5°	402.1	396.6	395.6	391.5	390.1	390.6	385.6	384.2	383.3	381.4	380.5
55°	348.9	346.2	342.5	339.8	337.5	335.2	333.4	333.4	328.3	328.8	326.5
57.5°	302.2	299.9	295.4	291.2	290.3	287.6	285.3	283.0	282.5	279.3	277.0
60°	260.6	256.4	250.5	248.7	245.9	243.6	241.3	238.6	237.2	234.9	230.8
62.5°	221.6	214.8	212.5	208.8	205.6	204.2	200.6	197.4	195.1	191.9	188.7
65°	184.5	179.5	175.4	171.3	170.8	167.1	163.9	161.2	156.6	153.9	147.9
67.5°	150.7	146.1	141.5	137.4	134.2	133.3	128.2	125.0	121.8	116.3	111.3
70°	119.5	114.9	111.3	106.2	104.9	101.2	97.5	94.3	88.8	83.8	79.7
72.5°	91.1	86.1	82.0	78.3	76.0	72.8	69.1	65.5	60.0	55.0	51.3
75°	65.0	61.4	57.2	53.6	51.7	49.9	45.8	41.7	38.0	33.0	29.8
77.5°	44.0	40.3	36.6	33.4	31.1	29.8	27.0	23.8	20.6	17.9	15.6
80°	25.6	23.4	20.6	17.9	17.4	16.0	13.7	11.9	10.1	8.7	6.9
82.5°	12.4	11.0	9.2	7.8	6.9	6.4	5.5	4.6	3.7	3.2	3.2
85°	3.7	3.2	2.7	2.3	1.8	1.8	1.4	1.4	1.4	1.4	1.4
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1358.6	1358.2	1357.7	1357.3	1356.4	1356.4	1355.0	1354.1	1354.1	1353.2	1352.7
5°	1346.7	1345.4	1344.9	1344.0	1343.1	1342.6	1340.8	1340.3	1339.4	1338.5	1338.5
7.5°	1329.8	1328.0	1326.1	1325.2	1324.8	1323.4	1322.5	1322.0	1320.6	1319.7	1317.9
10°	1307.4	1306.0	1303.7	1302.8	1301.9	1300.9	1298.7	1297.3	1296.8	1295.9	1295.0
12.5°	1281.3	1279.4	1277.1	1275.3	1274.4	1273.0	1270.7	1269.4	1269.4	1267.5	1267.5
15°	1253.3	1250.6	1246.5	1244.6	1244.2	1241.4	1239.6	1237.8	1235.5	1234.6	1234.6
17.5°	1217.6	1213.0	1209.4	1209.4	1207.5	1204.8	1202.0	1200.7	1199.3	1197.5	1196.5
20°	1175.5	1172.3	1168.2	1168.2	1164.0	1163.1	1160.4	1159.9	1156.7	1157.2	1155.8
22.5°	1124.7	1122.8	1120.5	1118.7	1116.4	1113.7	1112.3	1112.7	1111.4	1110.9	1110.5
25°	1073.4	1068.3	1065.6	1064.7	1063.7	1061.5	1060.5	1060.1	1060.1	1058.7	1059.2
27.5°	1014.3	1010.6	1007.0	1008.3	1006.5	1005.1	1004.2	1002.8	1003.8	1003.3	1003.8
30°	953.8	949.3	947.0	947.9	947.4	943.8	945.6	945.1	945.6	945.6	946.5
32.5°	890.2	887.0	886.5	887.0	882.9	883.3	881.5	884.2	884.7	887.4	885.2
35°	825.6	823.8	820.6	820.1	820.6	820.1	820.1	822.0	821.5	824.3	823.3
37.5°	759.2	758.3	755.1	756.0	754.2	757.4	758.3	757.4	760.6	759.7	759.2
40°	694.2	692.8	691.0	694.7	692.4	690.5	693.7	691.0	691.9	694.7	694.7
42.5°	628.3	626.0	626.0	626.0	625.5	625.5	626.9	628.3	627.3	627.8	631.5
45°	561.9	561.4	560.0	561.0	560.5	562.8	562.8	563.7	565.5	567.4	566.4
47.5°	497.8	496.8	498.2	497.3	497.8	496.4	497.3	500.0	502.3	499.1	502.3
50°	437.8	435.9	435.5	436.9	436.4	435.9	436.9	436.9	435.9	435.9	439.1
52.5°	380.5	378.7	377.3	379.6	378.2	378.7	376.9	376.9	377.8	376.9	375.5
55°	327.0	325.6	323.7	324.7	322.4	321.9	320.1	320.1	318.7	317.8	315.0
57.5°	275.7	274.8	270.6	270.2	270.6	267.4	264.2	262.8	259.2	258.3	257.8
60°	230.3	225.3	223.0	220.3	218.4	217.1	213.4	211.1	205.6	202.4	201.9
62.5°	183.2	180.9	178.1	174.0	173.1	168.5	164.9	158.9	156.2	152.0	147.9
65°	145.2	139.2	135.1	132.8	129.1	125.0	120.9	114.5	111.3	106.2	102.1
67.5°	106.2	101.2	95.7	93.9	90.7	85.6	81.5	76.0	73.3	68.7	67.3
70°	72.8	68.2	64.1	61.4	59.1	54.0	49.9	48.1	45.3	44.4	44.4
72.5°	46.7	42.6	38.0	36.6	34.8	32.1	29.3	28.4	29.3	28.8	28.8
75°	26.1	23.8	20.6	19.2	19.2	18.3	17.9	17.9	17.9	17.9	17.9
77.5°	13.3	11.9	11.0	10.5	10.5	10.5	11.0	11.0	11.0	11.4	11.0
80°	6.4	6.0	6.0	6.0	6.4	6.4	6.4	6.4	6.4	6.9	6.4
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7
85°	1.4	1.4	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P684177

CATALOG NUMBER: LX6C30D010 EX6C309030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1352.2	1351.3	1351.3	1350.9	1350.9	1350.9	1350.9	1351.3
5°	1337.6	1337.1	1337.1	1336.2	1336.2	1336.2	1336.2	1336.2
7.5°	1317.9	1317.0	1317.4	1316.5	1316.5	1317.0	1316.5	1316.1
10°	1293.6	1293.2	1293.6	1293.6	1292.7	1292.2	1292.7	1293.2
12.5°	1266.1	1265.7	1264.8	1265.2	1265.2	1264.8	1264.3	1263.4
15°	1234.1	1233.6	1233.2	1232.7	1232.3	1232.7	1232.3	1231.3
17.5°	1196.5	1196.5	1196.1	1195.6	1195.2	1194.3	1194.7	1196.1
20°	1156.2	1155.8	1154.9	1155.3	1153.5	1152.6	1153.0	1154.4
22.5°	1110.0	1108.6	1109.5	1108.2	1108.2	1108.6	1108.2	1107.2
25°	1059.6	1057.8	1058.7	1059.2	1059.2	1058.7	1058.3	1058.7
27.5°	1003.8	1005.1	1005.1	1004.2	1005.6	1003.8	1004.7	1005.1
30°	946.5	945.1	944.7	946.5	949.3	947.0	947.0	947.4
32.5°	887.4	885.6	885.6	886.5	886.1	886.1	887.9	885.6
35°	824.3	825.2	821.5	823.8	824.7	823.8	824.3	824.3
37.5°	760.6	759.7	759.7	759.7	761.1	761.1	762.0	761.5
40°	697.9	696.0	695.6	696.5	694.7	696.0	696.0	694.7
42.5°	630.1	630.6	632.8	630.6	631.0	630.6	629.6	629.2
45°	567.4	568.7	567.8	567.4	567.8	566.0	566.4	567.8
47.5°	501.0	503.7	501.0	502.8	502.3	501.4	500.5	498.7
50°	438.7	439.6	439.1	438.7	438.2	437.8	435.5	434.1
52.5°	375.0	375.0	375.0	375.0	370.5	372.7	371.8	369.1
55°	312.8	314.1	312.3	312.3	309.1	309.1	308.2	308.6
57.5°	252.8	251.4	250.0	250.0	246.8	245.4	244.1	242.2
60°	196.9	195.5	193.7	191.4	188.2	188.2	187.3	183.6
62.5°	144.2	142.0	140.6	138.7	136.0	134.2	132.8	133.7
65°	98.9	96.6	94.8	94.8	94.8	93.9	93.4	93.4
67.5°	65.0	66.4	65.5	66.4	66.4	65.5	65.0	65.9
70°	44.9	44.9	44.4	44.4	44.4	44.4	44.0	44.4
72.5°	28.8	28.8	28.8	29.3	28.8	28.8	29.3	29.3
75°	18.3	18.3	18.3	18.8	18.3	18.3	18.8	18.3
77.5°	11.0	11.4	11.4	11.4	11.4	11.0	11.4	11.4
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)