

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: P684191

Luminaire Tested: **LX6C30D010 EX6C309040 6LBLWWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684191  
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 EX6C309040 6LBLWWH  
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

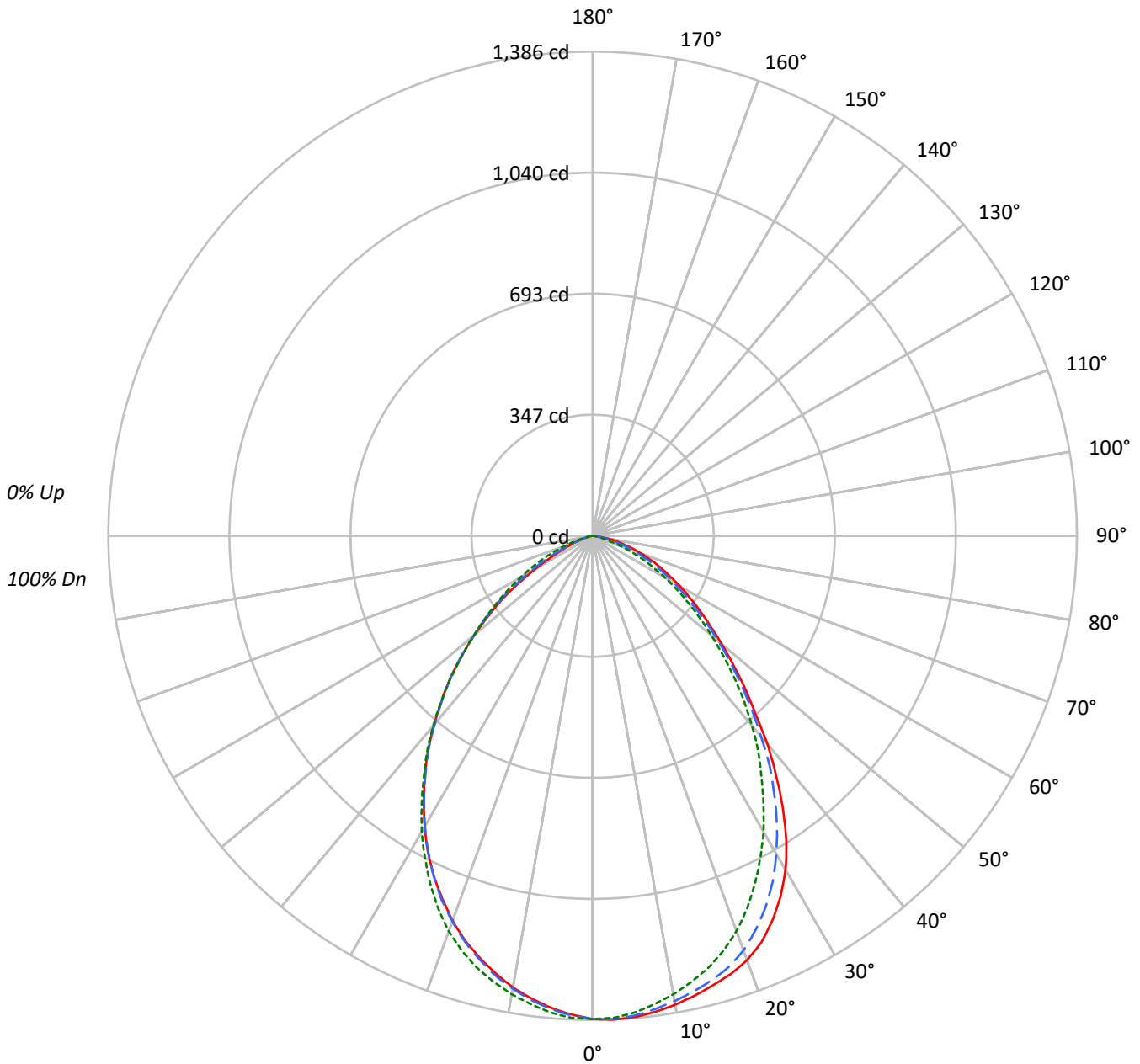
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2516.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

TEST NUMBER: P684191

CATALOG NUMBER: LX6C30D010 EX6C309040 6LBLWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P684191

CATALOG NUMBER: LX6C30D010 EX6C309040 6LBLWWH

**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°	75827	75827	75827
5°	76089	75402	74659
10°	75856	74175	73089
15°	75574	72645	70954
20°	75402	70251	68378
25°	73571	66482	65018
30°	69897	61921	60895
35°	63443	56383	56008
40°	55661	50738	50473
45°	47726	44338	44695
50°	41082	37790	37594
55°	35908	31903	29954
60°	31554	26149	20437
65°	27616	20262	12297
70°	23546	13640	7229
75°	18999	7096	3940
80°	13196	2778	2210
85°	5284	881	1195



TEST NUMBER: P684191

CATALOG NUMBER: LX6C30D010 EX6C309040 6LBLWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	5.2
10°-20°	361.9	14.4
20°-30°	515.0	20.5
30°-40°	542.1	21.5
40°-50°	451.7	18.0
50°-60°	305.2	12.1
60°-70°	154.7	6.2
70°-80°	49.9	2.0
80°-90°	5.8	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°	1006.5	40.0
0°-40°	1548.6	61.6
0°-60°	2305.6	91.6
0°-90°	2516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1383	1383	1383	1383	1383	
5°	1383	1379	1370	1360	1357	131
15°	1332	1317	1280	1254	1250	376
25°	1216	1172	1099	1076	1075	557
35°	948	907	842	834	837	590
45°	616	600	572	574	576	476
55°	376	358	334	324	313	338
65°	213	192	156	113	95	212
75°	90	70	34	18	19	97
85°	8	5	1	2	2	14
90°	0	0	0	0	0	



TEST NUMBER: P684191

CATALOG NUMBER: LX6C30D010 EX6C309040 6LBLWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2
2.5°	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.0	1386.0	1385.1	1385.1	1384.6
5°	1382.7	1383.2	1383.2	1382.7	1382.7	1381.8	1381.8	1381.3	1379.9	1379.0	1378.6
7.5°	1374.8	1374.8	1374.4	1373.9	1373.4	1372.0	1371.6	1370.2	1369.3	1368.3	1366.5
10°	1362.7	1362.7	1362.3	1361.3	1360.9	1360.0	1360.0	1358.1	1356.2	1353.9	1352.5
12.5°	1348.3	1348.8	1347.9	1347.4	1346.0	1345.5	1344.6	1342.3	1340.9	1338.1	1335.8
15°	1331.6	1332.5	1332.5	1330.7	1329.3	1328.8	1327.4	1326.0	1322.8	1320.0	1317.2
17.5°	1315.3	1316.3	1315.3	1313.9	1312.5	1310.7	1309.7	1307.0	1302.8	1299.0	1294.9
20°	1292.5	1293.9	1292.1	1289.7	1287.0	1286.5	1285.1	1280.4	1274.4	1268.8	1262.8
22.5°	1260.5	1259.5	1258.1	1257.2	1252.6	1249.8	1247.9	1241.9	1235.4	1227.9	1220.5
25°	1216.3	1218.1	1215.4	1211.2	1208.8	1206.1	1201.4	1194.9	1188.9	1181.0	1172.1
27.5°	1164.2	1164.2	1160.5	1159.1	1154.0	1150.3	1147.9	1141.4	1133.5	1125.6	1115.9
30°	1104.2	1101.4	1101.4	1094.9	1090.8	1089.4	1087.0	1076.3	1069.4	1061.0	1051.2
32.5°	1031.7	1031.2	1029.4	1025.2	1019.6	1015.0	1015.0	1007.5	998.2	988.0	982.0
35°	948.0	948.5	947.6	942.9	942.9	937.3	936.4	929.9	922.4	914.5	907.1
37.5°	861.5	863.4	861.5	859.2	857.8	857.4	853.2	848.5	842.9	838.3	832.7
40°	777.8	775.1	776.0	771.3	771.8	770.9	769.0	763.0	759.7	755.1	749.0
42.5°	687.6	690.4	691.4	688.6	687.6	685.8	687.6	685.3	681.6	679.3	673.7
45°	615.6	612.8	614.2	613.3	613.7	610.0	608.6	607.7	606.3	602.1	599.8
47.5°	544.0	544.4	544.0	542.1	541.2	541.2	539.3	536.5	536.5	533.8	531.9
50°	481.7	481.7	482.6	480.3	479.4	477.5	478.0	475.2	473.3	471.0	469.6
52.5°	424.5	425.0	423.1	423.6	422.6	422.6	420.8	418.9	417.1	412.9	411.9
55°	375.7	376.1	373.8	374.7	372.0	370.6	369.6	366.8	366.8	362.7	357.5
57.5°	330.1	329.6	329.2	327.8	325.9	324.5	323.1	319.9	318.5	315.7	311.5
60°	287.8	287.3	286.4	285.9	284.5	281.3	281.3	279.0	274.3	271.5	267.3
62.5°	247.8	247.8	247.3	246.0	244.6	243.2	242.2	240.4	235.7	232.5	228.8
65°	212.9	212.5	211.1	208.8	207.8	207.8	204.6	203.2	199.5	196.2	192.0
67.5°	179.5	177.6	176.7	177.1	174.4	174.4	171.6	169.2	166.0	160.4	157.2
70°	146.9	146.0	145.1	144.1	143.7	141.8	140.4	137.6	134.4	130.2	125.1
72.5°	117.6	117.6	116.2	115.3	113.9	112.1	111.1	108.8	105.1	100.4	96.7
75°	89.7	89.7	89.7	87.9	86.9	86.0	83.2	81.8	77.6	74.9	70.2
77.5°	66.0	65.1	63.7	63.2	62.3	61.4	60.0	57.7	53.9	50.7	47.9
80°	41.8	43.2	41.8	41.8	39.5	38.6	38.1	35.3	33.9	31.2	28.8
82.5°	23.2	23.7	22.8	22.3	20.9	20.5	20.5	18.6	17.7	15.8	14.4
85°	8.4	8.8	8.4	8.4	7.4	7.9	7.4	7.0	6.0	5.1	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



TEST NUMBER: P684191

CATALOG NUMBER: LX6C30D010 EX6C309040 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2
2.5°	1384.6	1383.7	1383.7	1383.2	1382.7	1382.7	1382.7	1382.3	1381.3	1381.3	1380.9
5°	1377.6	1376.7	1375.3	1374.4	1373.9	1373.4	1373.0	1372.5	1370.6	1370.2	1368.8
7.5°	1365.1	1364.1	1361.8	1360.9	1359.5	1359.0	1357.2	1356.2	1354.4	1352.5	1351.6
10°	1350.2	1347.9	1346.0	1343.7	1342.8	1341.4	1339.0	1336.2	1334.8	1332.5	1330.7
12.5°	1333.5	1330.7	1326.9	1324.2	1323.2	1320.9	1317.2	1314.9	1311.6	1307.9	1304.6
15°	1312.5	1309.3	1306.0	1300.9	1299.5	1296.7	1293.0	1288.4	1283.7	1280.0	1276.3
17.5°	1289.7	1284.6	1279.5	1273.9	1269.8	1268.4	1262.3	1255.8	1251.6	1245.1	1240.9
20°	1257.7	1250.7	1242.3	1236.7	1233.0	1228.8	1221.9	1214.9	1209.8	1204.2	1198.2
22.5°	1213.5	1207.0	1197.2	1188.9	1186.1	1180.0	1174.0	1167.5	1161.0	1154.9	1147.5
25°	1161.4	1154.5	1144.7	1136.3	1131.7	1128.9	1117.3	1110.7	1104.2	1099.1	1094.0
27.5°	1108.0	1095.4	1088.9	1075.9	1071.7	1070.8	1060.1	1053.1	1046.1	1039.1	1032.6
30°	1041.9	1032.2	1022.4	1013.1	1007.5	1004.3	996.4	987.5	982.9	978.2	971.7
32.5°	973.6	964.8	952.7	943.8	939.6	935.0	928.0	922.0	915.0	909.9	908.5
35°	900.6	890.8	880.6	874.1	873.2	867.6	860.6	855.5	850.4	842.5	841.1
37.5°	822.5	816.9	809.9	800.6	796.4	796.4	789.5	785.8	779.2	778.8	775.1
40°	745.8	743.4	732.7	730.0	729.0	722.5	720.7	714.2	709.5	709.0	703.5
42.5°	670.0	663.9	662.1	657.4	653.2	652.3	648.1	645.3	643.5	640.7	637.9
45°	594.7	593.3	588.6	585.4	584.0	582.1	580.7	575.1	574.2	571.9	570.5
47.5°	529.6	525.8	521.7	517.9	517.5	514.7	511.4	511.4	506.3	505.9	504.9
50°	464.9	462.2	459.8	454.7	455.6	451.9	451.5	447.3	444.9	443.1	445.4
52.5°	408.2	402.6	401.7	397.5	396.1	396.6	391.5	390.1	389.2	387.3	386.4
55°	354.3	351.5	347.8	345.0	342.7	340.3	338.5	338.5	333.4	333.8	331.5
57.5°	306.9	304.5	299.9	295.7	294.8	292.0	289.7	287.3	286.9	283.6	281.3
60°	264.6	260.4	254.3	252.5	249.7	247.3	245.0	242.2	240.8	238.5	234.3
62.5°	225.0	218.1	215.7	212.0	208.8	207.4	203.6	200.4	198.1	194.8	191.6
65°	187.4	182.3	178.1	173.9	173.4	169.7	166.4	163.7	159.0	156.2	150.2
67.5°	153.0	148.3	143.7	139.5	136.2	135.3	130.2	126.9	123.7	118.1	113.0
70°	121.3	116.7	113.0	107.9	106.5	102.8	99.0	95.8	90.2	85.1	80.9
72.5°	92.5	87.4	83.2	79.5	77.2	73.9	70.2	66.5	60.9	55.8	52.1
75°	66.0	62.3	58.1	54.4	52.5	50.7	46.5	42.3	38.6	33.5	30.2
77.5°	44.6	40.9	37.2	33.9	31.6	30.2	27.4	24.2	20.9	18.1	15.8
80°	26.0	23.7	20.9	18.1	17.7	16.3	13.9	12.1	10.2	8.8	7.0
82.5°	12.6	11.2	9.3	7.9	7.0	6.5	5.6	4.6	3.7	3.3	3.3
85°	3.7	3.3	2.8	2.3	1.9	1.9	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



TEST NUMBER: P684191

CATALOG NUMBER: LX6C30D010 EX6C309040 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2
2.5°	1379.5	1379.0	1378.6	1378.1	1377.2	1377.2	1375.8	1374.8	1374.8	1373.9	1373.4
5°	1367.4	1366.0	1365.5	1364.6	1363.7	1363.2	1361.3	1360.9	1360.0	1359.0	1359.0
7.5°	1350.2	1348.3	1346.5	1345.5	1345.1	1343.7	1342.8	1342.3	1340.9	1340.0	1338.1
10°	1327.4	1326.0	1323.7	1322.8	1321.8	1320.9	1318.6	1317.2	1316.7	1315.8	1314.9
12.5°	1300.9	1299.0	1296.7	1294.9	1293.9	1292.5	1290.2	1288.8	1288.8	1287.0	1287.0
15°	1272.5	1269.8	1265.6	1263.7	1263.2	1260.5	1258.6	1256.7	1254.4	1253.5	1253.5
17.5°	1236.3	1231.6	1227.9	1227.9	1226.1	1223.3	1220.5	1219.1	1217.7	1215.8	1214.9
20°	1193.5	1190.3	1186.1	1186.1	1181.9	1181.0	1178.2	1177.7	1174.4	1174.9	1173.5
22.5°	1141.9	1140.0	1137.7	1135.9	1133.5	1130.7	1129.3	1129.8	1128.4	1127.9	1127.5
25°	1089.8	1084.7	1081.9	1081.0	1080.1	1077.7	1076.8	1076.3	1076.3	1074.9	1075.4
27.5°	1029.8	1026.1	1022.4	1023.8	1021.9	1020.5	1019.6	1018.2	1019.2	1018.7	1019.2
30°	968.5	963.8	961.5	962.4	962.0	958.2	960.1	959.6	960.1	960.1	961.0
32.5°	903.8	900.6	900.1	900.6	896.4	896.9	895.0	897.8	898.3	901.1	898.7
35°	838.3	836.4	833.2	832.7	833.2	832.7	832.7	834.6	834.1	836.9	836.0
37.5°	770.9	769.9	766.7	767.6	765.8	769.0	769.9	769.0	772.3	771.3	770.9
40°	704.9	703.5	701.6	705.3	703.0	701.1	704.4	701.6	702.5	705.3	705.3
42.5°	637.9	635.6	635.6	635.6	635.1	635.1	636.5	637.9	637.0	637.4	641.2
45°	570.5	570.0	568.6	569.6	569.1	571.4	571.4	572.3	574.2	576.1	575.1
47.5°	505.4	504.5	505.9	504.9	505.4	504.0	504.9	507.7	510.0	506.8	510.0
50°	444.5	442.6	442.2	443.6	443.1	442.6	443.6	443.6	442.6	442.6	445.9
52.5°	386.4	384.5	383.1	385.4	384.0	384.5	382.6	382.6	383.6	382.6	381.3
55°	332.0	330.6	328.7	329.6	327.3	326.9	325.0	325.0	323.6	322.7	319.9
57.5°	279.9	279.0	274.8	274.3	274.8	271.5	268.3	266.9	263.2	262.2	261.8
60°	233.9	228.8	226.4	223.6	221.8	220.4	216.7	214.3	208.8	205.5	205.0
62.5°	186.0	183.7	180.9	176.7	175.7	171.1	167.4	161.3	158.5	154.4	150.2
65°	147.4	141.3	137.2	134.8	131.1	126.9	122.7	116.2	113.0	107.9	103.7
67.5°	107.9	102.8	97.2	95.3	92.1	86.9	82.8	77.2	74.4	69.7	68.3
70°	73.9	69.3	65.1	62.3	60.0	54.9	50.7	48.8	46.0	45.1	45.1
72.5°	47.4	43.2	38.6	37.2	35.3	32.5	29.8	28.8	29.8	29.3	29.3
75°	26.5	24.2	20.9	19.5	19.5	18.6	18.1	18.1	18.1	18.1	18.1
77.5°	13.5	12.1	11.2	10.7	10.7	10.7	11.2	11.2	11.2	11.6	11.2
80°	6.5	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	7.0	6.5
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.7	3.7	3.7	3.7
85°	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P684191

CATALOG NUMBER: LX6C30D010 EX6C309040 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2
2.5°	1373.0	1372.0	1372.0	1371.6	1371.6	1371.6	1371.6	1372.0
5°	1358.1	1357.6	1357.6	1356.7	1356.7	1356.7	1356.7	1356.7
7.5°	1338.1	1337.2	1337.6	1336.7	1336.7	1337.2	1336.7	1336.2
10°	1313.5	1313.0	1313.5	1313.5	1312.5	1312.1	1312.5	1313.0
12.5°	1285.6	1285.1	1284.2	1284.6	1284.6	1284.2	1283.7	1282.8
15°	1253.0	1252.6	1252.1	1251.6	1251.2	1251.6	1251.2	1250.2
17.5°	1214.9	1214.9	1214.4	1214.0	1213.5	1212.6	1213.0	1214.4
20°	1174.0	1173.5	1172.6	1173.0	1171.2	1170.3	1170.7	1172.1
22.5°	1127.0	1125.6	1126.6	1125.2	1125.2	1125.6	1125.2	1124.2
25°	1075.9	1074.0	1074.9	1075.4	1075.4	1074.9	1074.5	1074.9
27.5°	1019.2	1020.5	1020.5	1019.6	1021.0	1019.2	1020.1	1020.5
30°	961.0	959.6	959.2	961.0	963.8	961.5	961.5	962.0
32.5°	901.1	899.2	899.2	900.1	899.7	899.7	901.5	899.2
35°	836.9	837.8	834.1	836.4	837.4	836.4	836.9	836.9
37.5°	772.3	771.3	771.3	771.3	772.7	772.7	773.7	773.2
40°	708.6	706.7	706.2	707.2	705.3	706.7	706.7	705.3
42.5°	639.8	640.2	642.5	640.2	640.7	640.2	639.3	638.8
45°	576.1	577.5	576.5	576.1	576.5	574.7	575.1	576.5
47.5°	508.6	511.4	508.6	510.5	510.0	509.1	508.2	506.3
50°	445.4	446.3	445.9	445.4	444.9	444.5	442.2	440.8
52.5°	380.8	380.8	380.8	380.8	376.1	378.5	377.5	374.7
55°	317.6	319.0	317.1	317.1	313.8	313.8	312.9	313.4
57.5°	256.6	255.3	253.9	253.9	250.6	249.2	247.8	246.0
60°	199.9	198.5	196.7	194.3	191.1	191.1	190.2	186.4
62.5°	146.5	144.1	142.7	140.9	138.1	136.2	134.8	135.8
65°	100.4	98.1	96.2	96.2	96.2	95.3	94.8	94.8
67.5°	66.0	67.4	66.5	67.4	67.4	66.5	66.0	67.0
70°	45.6	45.6	45.1	45.1	45.1	45.1	44.6	45.1
72.5°	29.3	29.3	29.3	29.8	29.3	29.3	29.8	29.8
75°	18.6	18.6	18.6	19.1	18.6	18.6	19.1	18.6
77.5°	11.2	11.6	11.6	11.6	11.6	11.2	11.6	11.6
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)