

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: P684198

Luminaire Tested: **LX6C30D010 EX6C309050 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684198
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 EX6C309050 6LBLWWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

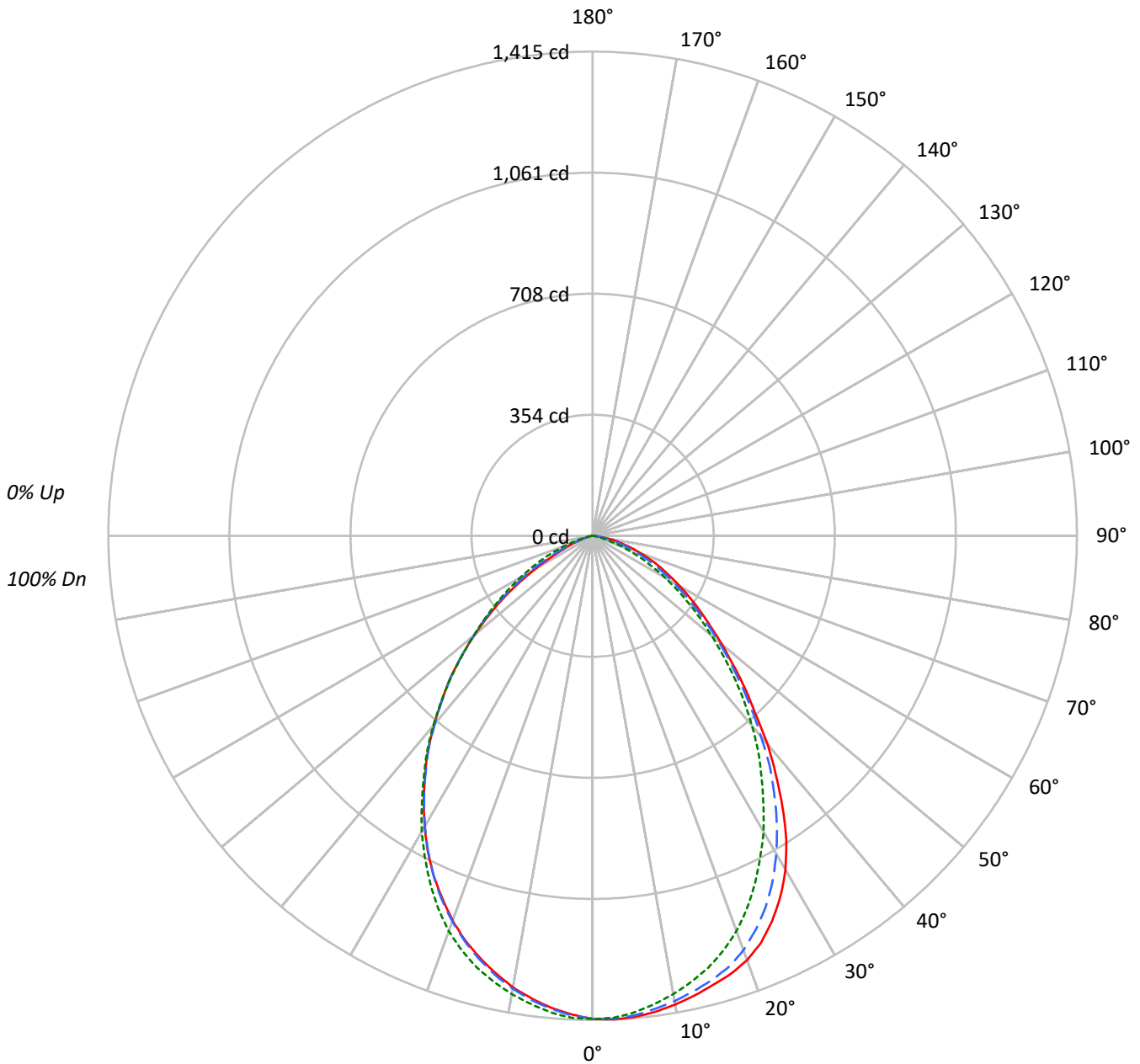
Lumens per Lamp: N/A
Luminaire Lumens: 2568.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P684198

CATALOG NUMBER: LX6C30D010 EX6C309050 6LBLWWH

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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°	77395	77395	77395
5°	77663	76959	76199
10°	77426	75711	74598
15°	77134	74143	72424
20°	76966	71704	69790
25°	75089	67855	66367
30°	71346	63206	62149
35°	64755	57547	57166
40°	56814	51790	51518
45°	48710	45253	45617
50°	41926	38566	38370
55°	36644	32563	30565
60°	32201	26686	20865
65°	28187	20677	12556
70°	24043	13913	7373
75°	19402	7244	4024
80°	13480	2841	2241
85°	5346	881	1195



TEST NUMBER: P684198

CATALOG NUMBER: LX6C30D010 EX6C309050 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	5.2
10°-20°	369.4	14.4
20°-30°	525.7	20.5
30°-40°	553.3	21.5
40°-50°	461.1	18.0
50°-60°	311.5	12.1
60°-70°	157.9	6.2
70°-80°	51.0	2.0
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°	1027.4	40.0
0°-40°	1580.6	61.6
0°-60°	2353.2	91.6
0°-90°	2568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1412	1412	1412	1412	1412	
5°	1411	1407	1398	1388	1385	134
15°	1359	1344	1306	1280	1276	384
25°	1241	1196	1122	1099	1097	569
35°	968	926	860	851	854	602
45°	628	612	584	586	588	486
55°	383	365	341	330	320	345
65°	217	196	159	115	97	216
75°	92	72	34	18	19	99
85°	8	5	1	2	2	15
90°	0	0	0	0	0	



TEST NUMBER: P684198

CATALOG NUMBER: LX6C30D010 EX6C309050 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1414.6	1414.6	1413.7	1413.7	1413.2
5°	1411.3	1411.8	1411.8	1411.3	1411.3	1410.4	1410.4	1409.9	1408.5	1407.5	1407.0
7.5°	1403.2	1403.2	1402.8	1402.3	1401.8	1400.4	1399.9	1398.5	1397.6	1396.6	1394.7
10°	1390.9	1390.9	1390.4	1389.5	1389.0	1388.1	1388.1	1386.2	1384.3	1381.9	1380.5
12.5°	1376.2	1376.7	1375.7	1375.2	1373.8	1373.4	1372.4	1370.0	1368.6	1365.8	1363.4
15°	1359.1	1360.1	1360.1	1358.2	1356.7	1356.3	1354.8	1353.4	1350.1	1347.3	1344.4
17.5°	1342.5	1343.5	1342.5	1341.1	1339.7	1337.8	1336.8	1334.0	1329.7	1325.9	1321.6
20°	1319.3	1320.7	1318.8	1316.4	1313.6	1313.1	1311.7	1306.9	1300.7	1295.1	1288.9
22.5°	1286.5	1285.6	1284.1	1283.2	1278.4	1275.6	1273.7	1267.5	1260.9	1253.3	1245.7
25°	1241.4	1243.3	1240.5	1236.2	1233.8	1231.0	1226.2	1219.6	1213.4	1205.4	1196.3
27.5°	1188.3	1188.3	1184.5	1183.1	1177.8	1174.0	1171.7	1165.0	1157.0	1148.9	1138.9
30°	1127.1	1124.2	1124.2	1117.6	1113.3	1111.9	1109.5	1098.6	1091.5	1082.9	1073.0
32.5°	1053.0	1052.6	1050.7	1046.4	1040.7	1035.9	1035.9	1028.4	1018.9	1008.4	1002.3
35°	967.6	968.1	967.1	962.4	962.4	956.7	955.7	949.1	941.5	933.4	925.8
37.5°	879.3	881.2	879.3	877.0	875.5	875.1	870.8	866.1	860.4	855.6	849.9
40°	793.9	791.1	792.0	787.3	787.8	786.8	784.9	778.7	775.4	770.7	764.5
42.5°	701.9	704.7	705.7	702.8	701.9	700.0	701.9	699.5	695.7	693.3	687.6
45°	628.3	625.5	626.9	625.9	626.4	622.6	621.2	620.2	618.8	614.5	612.2
47.5°	555.2	555.7	555.2	553.3	552.4	552.4	550.5	547.6	547.6	544.8	542.9
50°	491.6	491.6	492.6	490.2	489.3	487.4	487.8	485.0	483.1	480.7	479.3
52.5°	433.3	433.7	431.8	432.3	431.4	431.4	429.5	427.6	425.7	421.4	420.5
55°	383.4	383.9	381.5	382.5	379.6	378.2	377.3	374.4	374.4	370.1	364.9
57.5°	336.9	336.5	336.0	334.6	332.7	331.2	329.8	326.5	325.1	322.2	317.9
60°	293.7	293.3	292.3	291.8	290.4	287.1	287.1	284.7	280.0	277.1	272.9
62.5°	252.9	252.9	252.5	251.0	249.6	248.2	247.2	245.3	240.6	237.3	233.5
65°	217.3	216.9	215.4	213.1	212.1	212.1	208.8	207.4	203.6	200.3	196.0
67.5°	183.2	181.3	180.3	180.8	178.0	178.0	175.1	172.7	169.4	163.7	160.4
70°	150.0	149.0	148.1	147.1	146.6	144.7	143.3	140.5	137.1	132.9	127.7
72.5°	120.1	120.1	118.6	117.7	116.3	114.4	113.4	111.0	107.2	102.5	98.7
75°	91.6	91.6	91.6	89.7	88.7	87.8	84.9	83.5	79.3	76.4	71.7
77.5°	67.4	66.4	65.0	64.5	63.6	62.6	61.2	58.8	55.0	51.7	48.9
80°	42.7	44.1	42.7	42.7	40.3	39.4	38.9	36.1	34.6	31.8	29.4
82.5°	23.7	24.2	23.3	22.8	21.4	20.9	20.9	19.0	18.0	16.1	14.7
85°	8.5	9.0	8.5	8.5	7.6	8.1	7.6	7.1	6.2	5.2	4.7
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: P684198

CATALOG NUMBER: LX6C30D010 EX6C309050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1413.2	1412.3	1412.3	1411.8	1411.3	1411.3	1411.3	1410.8	1409.9	1409.9	1409.4
5°	1406.1	1405.1	1403.7	1402.8	1402.3	1401.8	1401.3	1400.9	1399.0	1398.5	1397.1
7.5°	1393.3	1392.3	1390.0	1389.0	1387.6	1387.1	1385.2	1384.3	1382.4	1380.5	1379.5
10°	1378.1	1375.7	1373.8	1371.5	1370.5	1369.1	1366.7	1363.9	1362.4	1360.1	1358.2
12.5°	1361.0	1358.2	1354.4	1351.5	1350.6	1348.2	1344.4	1342.0	1338.7	1334.9	1331.6
15°	1339.7	1336.3	1333.0	1327.8	1326.4	1323.5	1319.7	1315.0	1310.2	1306.4	1302.6
17.5°	1316.4	1311.2	1306.0	1300.3	1296.0	1294.6	1288.4	1281.8	1277.5	1270.8	1266.6
20°	1283.7	1276.5	1268.0	1262.3	1258.5	1254.2	1247.1	1240.0	1234.8	1229.1	1222.9
22.5°	1238.6	1231.9	1222.0	1213.4	1210.6	1204.4	1198.2	1191.6	1185.0	1178.8	1171.2
25°	1185.4	1178.3	1168.3	1159.8	1155.1	1152.2	1140.3	1133.7	1127.1	1121.8	1116.6
27.5°	1130.9	1118.0	1111.4	1098.1	1093.8	1092.9	1082.0	1074.9	1067.7	1060.6	1054.0
30°	1063.5	1053.5	1043.5	1034.0	1028.4	1025.0	1017.0	1007.9	1003.2	998.5	991.8
32.5°	993.7	984.7	972.4	963.3	959.1	954.3	947.2	941.0	933.9	928.7	927.3
35°	919.2	909.2	898.8	892.2	891.2	885.5	878.4	873.2	868.0	859.9	858.5
37.5°	839.5	833.8	826.7	817.2	812.9	812.9	805.8	802.0	795.3	794.9	791.1
40°	761.2	758.8	747.9	745.0	744.1	737.5	735.6	728.9	724.2	723.7	718.0
42.5°	683.8	677.7	675.8	671.0	666.7	665.8	661.5	658.7	656.8	653.9	651.1
45°	607.0	605.5	600.8	597.5	596.0	594.1	592.7	587.0	586.1	583.7	582.3
47.5°	540.5	536.7	532.4	528.7	528.2	525.3	522.0	522.0	516.8	516.3	515.4
50°	474.6	471.7	469.3	464.1	465.1	461.3	460.8	456.5	454.1	452.2	454.6
52.5°	416.7	411.0	410.0	405.7	404.3	404.8	399.6	398.1	397.2	395.3	394.4
55°	361.6	358.8	355.0	352.1	349.7	347.4	345.5	345.5	340.3	340.7	338.4
57.5°	313.2	310.8	306.1	301.8	300.9	298.0	295.6	293.3	292.8	289.5	287.1
60°	270.0	265.7	259.6	257.7	254.8	252.5	250.1	247.2	245.8	243.4	239.2
62.5°	229.7	222.6	220.2	216.4	213.1	211.6	207.9	204.5	202.2	198.8	195.5
65°	191.2	186.0	181.8	177.5	177.0	173.2	169.9	167.0	162.3	159.4	153.3
67.5°	156.1	151.4	146.6	142.4	139.0	138.1	132.9	129.6	126.2	120.5	115.3
70°	123.9	119.1	115.3	110.1	108.7	104.9	101.1	97.8	92.1	86.8	82.6
72.5°	94.4	89.2	84.9	81.1	78.8	75.5	71.7	67.9	62.2	56.9	53.1
75°	67.4	63.6	59.3	55.5	53.6	51.7	47.5	43.2	39.4	34.2	30.8
77.5°	45.6	41.8	38.0	34.6	32.3	30.8	28.0	24.7	21.4	18.5	16.1
80°	26.6	24.2	21.4	18.5	18.0	16.6	14.2	12.3	10.4	9.0	7.1
82.5°	12.8	11.4	9.5	8.1	7.1	6.6	5.7	4.7	3.8	3.3	3.3
85°	3.8	3.3	2.8	2.4	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: P684198

CATALOG NUMBER: LX6C30D010 EX6C309050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1408.0	1407.5	1407.0	1406.6	1405.6	1405.6	1404.2	1403.2	1403.2	1402.3	1401.8
5°	1395.7	1394.2	1393.8	1392.8	1391.9	1391.4	1389.5	1389.0	1388.1	1387.1	1387.1
7.5°	1378.1	1376.2	1374.3	1373.4	1372.9	1371.5	1370.5	1370.0	1368.6	1367.7	1365.8
10°	1354.8	1353.4	1351.0	1350.1	1349.1	1348.2	1345.8	1344.4	1343.9	1343.0	1342.0
12.5°	1327.8	1325.9	1323.5	1321.6	1320.7	1319.3	1316.9	1315.5	1315.5	1313.6	1313.6
15°	1298.8	1296.0	1291.7	1289.8	1289.4	1286.5	1284.6	1282.7	1280.3	1279.4	1279.4
17.5°	1261.8	1257.1	1253.3	1253.3	1251.4	1248.5	1245.7	1244.3	1242.8	1241.0	1240.0
20°	1218.2	1214.9	1210.6	1210.6	1206.3	1205.4	1202.5	1202.0	1198.7	1199.2	1197.8
22.5°	1165.5	1163.6	1161.2	1159.3	1157.0	1154.1	1152.7	1153.2	1151.7	1151.3	1150.8
25°	1112.3	1107.1	1104.3	1103.3	1102.4	1100.0	1099.1	1098.6	1098.6	1097.2	1097.6
27.5°	1051.1	1047.3	1043.5	1045.0	1043.1	1041.6	1040.7	1039.3	1040.2	1039.7	1040.2
30°	988.5	983.7	981.4	982.3	981.8	978.0	979.9	979.5	979.9	979.9	980.9
32.5°	922.5	919.2	918.7	919.2	914.9	915.4	913.5	916.4	916.8	919.7	917.3
35°	855.6	853.7	850.4	849.9	850.4	849.9	849.9	851.8	851.3	854.2	853.2
37.5°	786.8	785.9	782.5	783.5	781.6	784.9	785.9	784.9	788.2	787.3	786.8
40°	719.4	718.0	716.1	719.9	717.5	715.6	718.9	716.1	717.0	719.9	719.9
42.5°	651.1	648.7	648.7	648.7	648.2	648.2	649.7	651.1	650.1	650.6	654.4
45°	582.3	581.8	580.4	581.3	580.9	583.2	583.2	584.2	586.1	588.0	587.0
47.5°	515.8	514.9	516.3	515.4	515.8	514.4	515.4	518.2	520.6	517.3	520.6
50°	453.7	451.8	451.3	452.7	452.2	451.8	452.7	452.7	451.8	451.8	455.1
52.5°	394.4	392.5	391.0	393.4	392.0	392.5	390.6	390.6	391.5	390.6	389.1
55°	338.8	337.4	335.5	336.5	334.1	333.6	331.7	331.7	330.3	329.3	326.5
57.5°	285.7	284.7	280.5	280.0	280.5	277.1	273.8	272.4	268.6	267.6	267.2
60°	238.7	233.5	231.1	228.3	226.4	224.9	221.1	218.8	213.1	209.8	209.3
62.5°	189.8	187.4	184.6	180.3	179.4	174.6	170.8	164.7	161.8	157.6	153.3
65°	150.4	144.3	140.0	137.6	133.8	129.6	125.3	118.6	115.3	110.1	105.8
67.5°	110.1	104.9	99.2	97.3	94.0	88.7	84.5	78.8	75.9	71.2	69.8
70°	75.5	70.7	66.4	63.6	61.2	56.0	51.7	49.8	47.0	46.0	46.0
72.5°	48.4	44.1	39.4	38.0	36.1	33.2	30.4	29.4	30.4	29.9	29.9
75°	27.0	24.7	21.4	19.9	19.9	19.0	18.5	18.5	18.5	18.5	18.5
77.5°	13.8	12.3	11.4	10.9	10.9	10.9	11.4	11.4	11.4	11.9	11.4
80°	6.6	6.2	6.2	6.2	6.6	6.6	6.6	6.6	6.6	7.1	6.6
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	3.8
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: P684198

CATALOG NUMBER: LX6C30D010 EX6C309050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1401.3	1400.4	1400.4	1399.9	1399.9	1399.9	1399.9	1400.4
5°	1386.2	1385.7	1385.7	1384.7	1384.7	1384.7	1384.7	1384.7
7.5°	1365.8	1364.8	1365.3	1364.3	1364.3	1364.8	1364.3	1363.9
10°	1340.6	1340.1	1340.6	1340.6	1339.7	1339.2	1339.7	1340.1
12.5°	1312.1	1311.7	1310.7	1311.2	1311.2	1310.7	1310.2	1309.3
15°	1278.9	1278.4	1278.0	1277.5	1277.0	1277.5	1277.0	1276.1
17.5°	1240.0	1240.0	1239.5	1239.1	1238.6	1237.6	1238.1	1239.5
20°	1198.2	1197.8	1196.8	1197.3	1195.4	1194.4	1194.9	1196.3
22.5°	1150.3	1148.9	1149.8	1148.4	1148.4	1148.9	1148.4	1147.5
25°	1098.1	1096.2	1097.2	1097.6	1097.6	1097.2	1096.7	1097.2
27.5°	1040.2	1041.6	1041.6	1040.7	1042.1	1040.2	1041.2	1041.6
30°	980.9	979.5	979.0	980.9	983.7	981.4	981.4	981.8
32.5°	919.7	917.8	917.8	918.7	918.3	918.3	920.2	917.8
35°	854.2	855.1	851.3	853.7	854.7	853.7	854.2	854.2
37.5°	788.2	787.3	787.3	787.3	788.7	788.7	789.7	789.2
40°	723.2	721.3	720.8	721.8	719.9	721.3	721.3	719.9
42.5°	653.0	653.5	655.8	653.5	653.9	653.5	652.5	652.0
45°	588.0	589.4	588.4	588.0	588.4	586.5	587.0	588.4
47.5°	519.2	522.0	519.2	521.1	520.6	519.6	518.7	516.8
50°	454.6	455.6	455.1	454.6	454.1	453.7	451.3	449.9
52.5°	388.7	388.7	388.7	388.7	383.9	386.3	385.3	382.5
55°	324.1	325.5	323.6	323.6	320.3	320.3	319.4	319.8
57.5°	262.0	260.5	259.1	259.1	255.8	254.4	252.9	251.0
60°	204.1	202.6	200.7	198.4	195.0	195.0	194.1	190.3
62.5°	149.5	147.1	145.7	143.8	140.9	139.0	137.6	138.6
65°	102.5	100.1	98.2	98.2	98.2	97.3	96.8	96.8
67.5°	67.4	68.8	67.9	68.8	68.8	67.9	67.4	68.3
70°	46.5	46.5	46.0	46.0	46.0	46.0	45.6	46.0
72.5°	29.9	29.9	29.9	30.4	29.9	29.9	30.4	30.4
75°	19.0	19.0	19.0	19.5	19.0	19.0	19.5	19.0
77.5°	11.4	11.9	11.9	11.9	11.9	11.4	11.9	11.9
80°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)