

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252142

Luminaire Tested: **LE\_6B15D010 EC6B10208030 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252142  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B15D010 EC6B10208030 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2332.5 lumens  
Efficiency: N/A  
Efficacy: 162.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

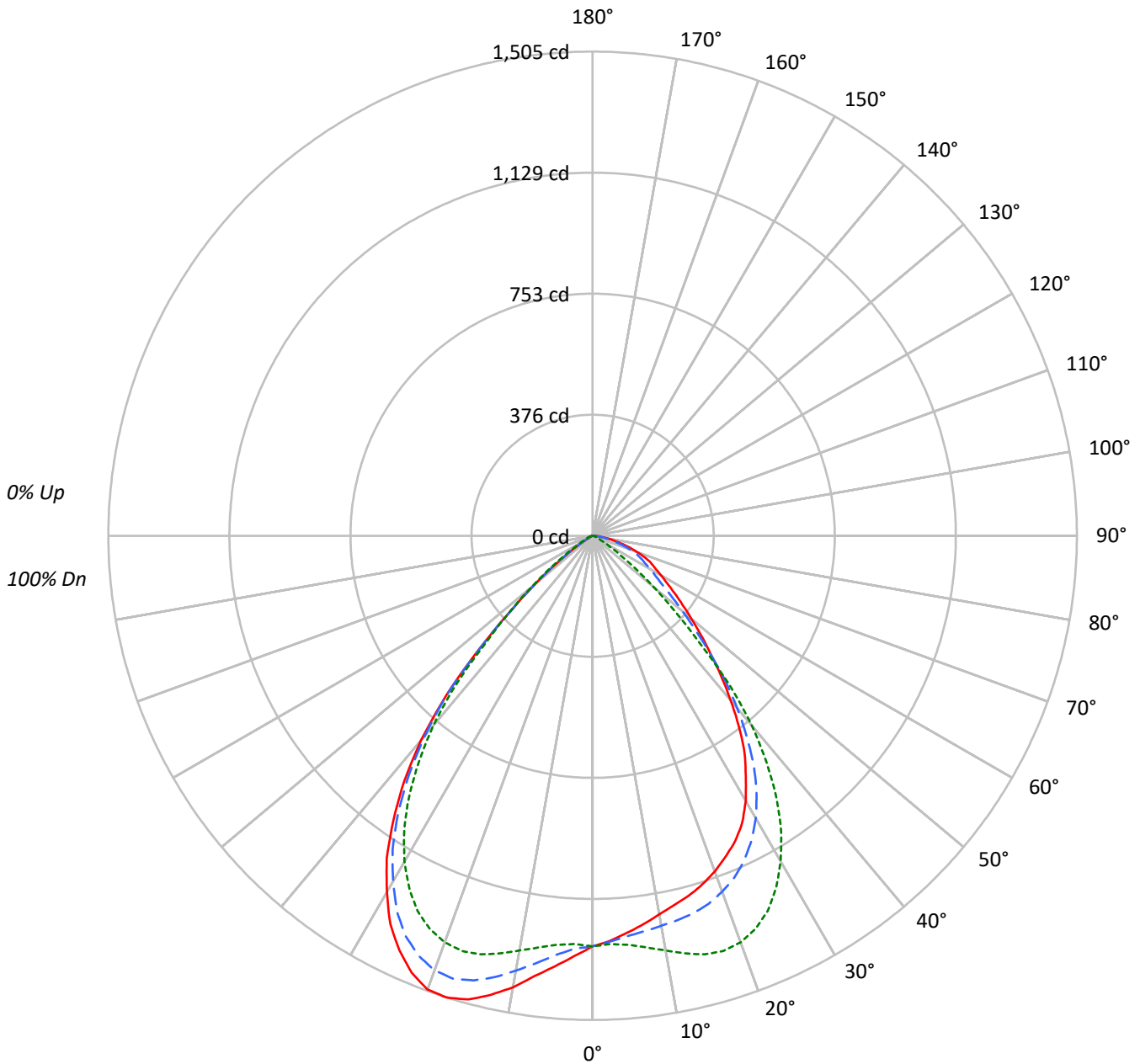
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252142

CATALOG NUMBER: LE\_6B15D010 EC6B10208030 6LBSW1LI

### 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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	83247	83247	83247
5°	81090	83565	87959
10°	79125	86717	94395
15°	78200	90972	100773
20°	77072	93338	104176
25°	75433	92645	102305
30°	71680	88050	96314
35°	65587	79389	85984
40°	56729	65560	70551
45°	47839	42995	46141
50°	40609	24887	23405
55°	35249	11932	9008
60°	31837	5585	2231
65°	30890	3211	756
70°	27678	2556	687
75°	22737	1865	302
80°	16944	939	0
85°	14597	0	0



TEST NUMBER: P252142

CATALOG NUMBER: LE\_6B15D010 EC6B10208030 6LBSW1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	5.3
10°-20°	375.6	16.1
20°-30°	573.9	24.6
30°-40°	600.3	25.7
40°-50°	389.4	16.7
50°-60°	154.6	6.6
60°-70°	73.3	3.1
70°-80°	34.9	1.5
80°-90°	7.1	0.3
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°	1072.8	46.0
0°-40°	1673.1	71.7
0°-60°	2217.2	95.1
0°-90°	2332.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2332.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1276	1276	1276	1276	1276	
5°	1238	1249	1276	1308	1343	117
15°	1158	1214	1347	1431	1492	326
25°	1048	1114	1287	1374	1421	480
35°	824	874	997	1055	1080	509
45°	518	514	466	494	500	403
55°	310	264	105	82	79	281
65°	200	166	21	5	5	195
75°	90	73	7	2	1	97
85°	20	12	0	0	0	23
90°	0	0	0	0	0	



TEST NUMBER: P252142

CATALOG NUMBER: LE\_6B15D010 EC6B10208030 6LBSW1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1260.2	1262.6	1249.2	1245.6	1255.4	1259.0	1260.2	1256.5	1257.8	1262.6	1262.6
5°	1238.2	1240.6	1228.5	1224.9	1234.6	1237.0	1240.6	1239.5	1243.1	1250.5	1249.2
7.5°	1217.5	1221.1	1207.8	1202.9	1215.1	1221.1	1223.6	1223.6	1228.5	1238.2	1239.5
10°	1194.4	1199.2	1187.0	1184.6	1198.0	1204.1	1205.2	1207.8	1215.1	1228.5	1230.9
12.5°	1174.8	1179.6	1171.1	1167.5	1182.1	1188.2	1190.6	1195.5	1204.1	1221.1	1223.6
15°	1157.8	1161.4	1151.6	1149.1	1163.9	1171.1	1172.4	1179.6	1190.6	1210.1	1213.9
17.5°	1135.8	1138.2	1130.9	1128.5	1143.1	1150.4	1151.6	1160.1	1173.6	1193.1	1199.2
20°	1110.1	1112.6	1105.2	1102.9	1117.5	1126.0	1127.2	1134.5	1150.4	1171.1	1177.2
22.5°	1079.6	1084.5	1076.0	1073.5	1088.2	1095.5	1099.1	1105.2	1121.1	1141.9	1150.4
25°	1047.9	1047.9	1041.9	1040.6	1054.0	1062.6	1061.4	1069.9	1085.8	1106.5	1113.8
27.5°	1006.5	1005.2	999.1	997.9	1012.5	1019.9	1017.4	1026.0	1040.6	1061.4	1068.6
30°	951.5	954.0	945.5	943.0	955.2	967.4	966.2	974.8	989.4	1008.9	1013.8
32.5°	885.6	888.1	886.9	883.2	894.2	900.4	904.0	910.1	922.2	943.0	947.9
35°	823.5	819.8	814.9	814.9	825.9	835.6	832.0	839.4	851.5	872.2	873.5
37.5°	746.6	745.4	743.0	740.5	752.8	755.1	756.4	761.2	772.2	789.2	786.9
40°	666.1	667.2	666.1	661.2	668.5	678.2	677.1	679.5	689.2	701.5	697.8
42.5°	590.5	590.5	590.5	585.6	594.1	599.0	601.4	600.2	602.6	613.6	608.8
45°	518.5	519.8	518.5	517.2	518.5	520.9	518.5	517.2	517.2	520.9	513.6
47.5°	456.2	456.2	452.6	449.0	452.6	453.9	450.1	446.5	445.2	444.0	431.9
50°	400.1	398.9	397.8	391.6	395.2	396.5	391.6	389.1	384.2	378.1	363.5
52.5°	351.4	350.1	348.9	342.8	345.2	346.5	341.6	336.8	330.6	325.8	307.4
55°	309.9	308.6	308.6	305.0	302.5	305.0	300.1	296.5	287.9	281.8	263.5
57.5°	274.5	274.5	272.0	268.4	269.6	269.6	264.8	259.9	252.5	245.2	230.6
60°	244.0	244.0	244.0	240.4	240.4	240.4	237.9	233.0	226.9	219.6	205.0
62.5°	219.6	219.6	218.4	214.8	215.9	215.9	213.5	208.6	202.5	197.6	183.0
65°	200.1	200.1	200.1	196.4	196.4	197.6	195.2	190.2	185.4	179.4	165.9
67.5°	175.6	174.5	174.5	172.0	173.2	174.5	172.0	168.4	162.2	158.6	146.4
70°	145.1	146.4	147.6	144.0	145.1	145.1	144.0	140.2	136.6	133.0	122.0
72.5°	118.4	118.4	117.1	115.9	115.9	117.1	114.6	111.0	108.6	106.1	97.6
75°	90.2	89.0	90.2	87.9	87.9	87.9	85.4	84.1	83.0	79.2	73.2
77.5°	65.9	64.6	64.6	62.2	63.4	63.4	62.2	59.8	57.4	56.1	51.2
80°	45.1	45.1	45.1	43.9	43.9	42.8	42.8	41.5	39.0	37.9	35.4
82.5°	30.5	30.5	30.5	29.2	29.2	29.2	28.0	26.9	25.6	24.4	22.0
85°	19.5	19.5	19.5	18.2	18.2	18.2	17.1	17.1	15.9	14.6	12.2
87.5°	11.0	11.0	11.0	9.8	9.8	9.8	9.8	9.8	8.5	7.4	6.1
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: P252142

CATALOG NUMBER: LE\_6B15D010 EC6B10208030 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1271.1	1254.1	1265.1	1265.1	1261.4	1271.1	1277.2	1282.1	1281.0	1270.0	1268.8
5°	1261.4	1246.8	1259.0	1260.2	1256.5	1270.0	1278.5	1284.6	1285.9	1276.0	1277.2
7.5°	1254.1	1241.9	1257.8	1262.6	1261.4	1273.6	1283.4	1293.1	1298.0	1290.8	1291.9
10°	1250.5	1240.6	1257.8	1265.1	1266.2	1279.8	1294.4	1307.8	1313.9	1309.0	1312.6
12.5°	1245.6	1239.5	1259.0	1270.0	1274.9	1288.2	1306.5	1322.4	1332.1	1329.8	1337.0
15°	1240.6	1235.8	1259.0	1274.9	1281.0	1293.1	1313.9	1337.0	1348.0	1346.9	1356.6
17.5°	1228.5	1227.2	1251.6	1268.8	1277.2	1291.9	1311.5	1339.5	1350.5	1352.9	1365.1
20°	1209.0	1209.0	1235.8	1254.1	1263.9	1277.2	1301.6	1328.5	1342.0	1344.4	1357.8
22.5°	1182.1	1184.6	1210.1	1228.5	1243.1	1252.9	1278.5	1306.5	1318.8	1322.4	1337.0
25°	1146.8	1149.1	1173.6	1191.9	1207.8	1218.8	1243.1	1268.8	1283.4	1287.0	1298.0
27.5°	1100.4	1105.2	1128.5	1146.8	1160.1	1167.5	1193.1	1220.0	1230.9	1234.6	1245.6
30°	1046.8	1047.9	1071.1	1087.0	1100.4	1106.5	1128.5	1156.5	1165.0	1168.8	1184.6
32.5°	980.9	979.6	1001.6	1016.2	1027.2	1034.5	1057.8	1076.0	1084.5	1090.6	1099.1
35°	901.5	900.4	916.1	933.2	941.8	944.2	967.4	986.9	991.9	996.8	1007.6
37.5°	812.5	812.5	825.9	834.5	844.2	847.9	858.9	880.8	889.4	888.1	896.6
40°	718.5	713.6	723.4	732.0	734.4	735.6	746.6	763.6	769.8	769.8	775.9
42.5°	619.8	612.4	613.6	618.5	621.0	612.4	619.8	630.8	627.0	631.9	633.1
45°	514.9	503.9	499.0	488.0	490.4	481.9	477.0	479.5	478.2	466.0	468.5
47.5°	429.4	409.9	401.4	385.5	381.9	372.1	366.0	355.0	345.2	345.2	339.1
50°	357.5	337.9	320.9	302.5	296.5	287.9	274.5	259.9	252.5	245.2	239.1
52.5°	300.1	279.4	258.6	239.1	230.6	219.6	201.2	186.6	173.2	165.9	158.6
55°	253.8	230.6	208.6	187.9	176.9	165.9	147.6	130.5	114.6	104.9	98.9
57.5°	218.4	196.4	173.2	151.2	141.5	129.4	109.8	91.5	76.9	65.9	59.8
60°	192.8	170.8	150.0	126.9	117.1	104.9	84.1	67.1	52.5	42.8	35.4
62.5°	170.8	151.2	129.4	108.6	98.9	86.6	67.1	50.0	36.6	26.9	20.8
65°	154.9	135.4	117.1	96.4	87.9	75.6	57.4	41.5	29.2	20.8	14.6
67.5°	136.6	119.5	101.2	84.1	75.6	65.9	48.8	35.4	24.4	17.1	12.2
70°	114.6	101.2	85.4	69.5	63.4	54.9	40.2	29.2	19.5	13.4	9.8
72.5°	91.5	80.5	68.4	56.1	51.2	42.8	33.0	23.1	14.6	9.8	7.4
75°	69.5	61.0	51.2	42.8	37.9	33.0	24.4	17.1	11.0	7.4	4.9
77.5°	47.6	43.9	36.6	29.2	26.9	23.1	15.9	11.0	7.4	4.9	2.5
80°	33.0	29.2	24.4	19.5	17.1	14.6	9.8	7.4	3.6	2.5	1.2
82.5°	20.8	17.1	14.6	12.2	11.0	8.5	6.1	3.6	2.5	1.2	1.2
85°	11.0	9.8	8.5	6.1	6.1	4.9	3.6	2.5	1.2	0.0	0.0
87.5°	6.1	4.9	3.6	2.5	2.5	1.2	1.2	1.2	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



TEST NUMBER: P252142

CATALOG NUMBER: LE\_6B15D010 EC6B10208030 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1283.4	1283.4	1282.1	1296.8	1279.8	1296.8	1288.2	1296.8	1284.6	1283.4	1284.6
5°	1293.1	1296.8	1298.0	1311.5	1295.6	1316.4	1309.0	1316.4	1307.8	1310.2	1313.9
7.5°	1312.6	1318.8	1317.5	1334.6	1318.8	1342.0	1337.0	1348.0	1339.5	1342.0	1346.9
10°	1334.6	1342.0	1343.1	1360.2	1345.6	1373.6	1367.5	1379.8	1372.4	1376.1	1382.2
12.5°	1360.2	1368.8	1370.0	1389.5	1373.6	1402.9	1399.2	1411.5	1405.4	1409.0	1416.4
15°	1379.8	1392.0	1394.4	1413.9	1396.9	1427.4	1424.9	1440.8	1431.0	1437.1	1443.2
17.5°	1389.5	1400.5	1405.4	1423.6	1409.0	1439.5	1437.1	1450.5	1443.2	1449.2	1456.6
20°	1383.4	1396.9	1400.5	1418.8	1404.1	1434.6	1431.0	1444.4	1437.1	1442.0	1449.2
22.5°	1361.5	1374.9	1379.8	1396.9	1383.4	1411.5	1410.2	1422.5	1412.8	1418.8	1424.9
25°	1322.4	1337.0	1339.5	1355.4	1340.8	1370.0	1367.5	1381.0	1373.6	1377.4	1385.9
27.5°	1266.2	1283.4	1287.0	1300.5	1289.5	1313.9	1313.9	1324.9	1316.4	1316.4	1324.9
30°	1199.2	1216.2	1218.8	1229.8	1220.0	1241.9	1243.1	1254.1	1240.6	1248.0	1249.2
32.5°	1117.5	1128.5	1135.8	1145.5	1130.9	1159.0	1155.2	1163.9	1156.5	1156.5	1162.6
35°	1018.6	1032.1	1035.8	1047.9	1035.8	1057.8	1057.8	1062.6	1055.2	1055.2	1065.0
37.5°	911.2	921.0	922.2	934.5	924.8	943.0	941.8	945.5	938.1	943.0	943.0
40°	785.6	793.0	795.4	801.5	800.2	813.8	812.5	814.9	811.2	812.5	814.9
42.5°	639.2	649.0	653.9	658.8	651.5	669.8	666.1	669.8	668.5	669.8	673.4
45°	470.9	478.2	481.9	483.1	480.6	491.6	500.1	492.9	494.1	491.6	496.5
47.5°	340.4	341.6	339.1	346.5	340.4	345.2	347.6	348.9	341.6	340.4	345.2
50°	233.0	239.1	230.6	234.2	233.0	237.9	235.5	236.6	229.4	233.0	230.6
52.5°	154.9	153.8	151.2	152.5	150.0	150.0	150.0	152.5	147.6	145.1	142.8
55°	93.9	91.5	86.6	85.4	85.4	86.6	84.1	81.8	81.8	80.5	80.5
57.5°	54.9	51.2	48.8	47.6	45.1	43.9	42.8	42.8	40.2	40.2	40.2
60°	30.5	26.9	24.4	22.0	22.0	20.8	19.5	18.2	18.2	18.2	17.1
62.5°	15.9	13.4	11.0	9.8	9.8	8.5	7.4	7.4	7.4	7.4	6.1
65°	11.0	8.5	7.4	6.1	6.1	4.9	4.9	4.9	4.9	4.9	4.9
67.5°	8.5	7.4	6.1	4.9	4.9	4.9	3.6	3.6	3.6	3.6	3.6
70°	7.4	4.9	4.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	4.9	4.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	3.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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





TEST NUMBER: P252142

CATALOG NUMBER: LE\_6B15D010 EC6B10208030 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0	1276.0
2.5°	1295.6	1294.4	1295.6	1298.0	1293.1	1307.8	1300.5	1307.8
5°	1323.6	1324.9	1326.1	1329.8	1323.6	1342.0	1332.1	1343.1
7.5°	1360.2	1361.5	1362.6	1366.4	1362.6	1381.0	1370.0	1379.8
10°	1398.0	1400.5	1400.5	1406.6	1402.9	1420.0	1412.8	1424.9
12.5°	1433.4	1435.9	1438.4	1442.0	1439.5	1457.9	1451.8	1461.5
15°	1461.5	1466.4	1467.6	1472.5	1470.0	1489.5	1482.2	1492.0
17.5°	1474.9	1479.8	1479.8	1485.9	1483.5	1504.2	1494.4	1505.4
20°	1467.6	1471.2	1472.5	1478.6	1476.1	1496.9	1487.1	1500.5
22.5°	1444.4	1445.6	1446.9	1453.0	1451.8	1470.0	1461.5	1470.0
25°	1401.8	1405.4	1404.1	1409.0	1409.0	1423.6	1413.9	1421.2
27.5°	1340.8	1344.4	1344.4	1350.5	1345.6	1360.2	1350.5	1361.5
30°	1266.2	1270.0	1267.5	1272.4	1267.5	1282.1	1274.9	1278.5
32.5°	1177.2	1177.2	1178.5	1179.6	1177.2	1190.6	1183.4	1190.6
35°	1071.1	1073.5	1074.8	1076.0	1073.5	1083.2	1074.8	1079.6
37.5°	951.5	957.6	956.4	957.6	954.0	966.2	958.9	961.4
40°	823.5	823.5	822.2	824.6	821.0	830.8	825.9	828.4
42.5°	674.6	678.2	673.4	679.5	669.8	683.1	678.2	674.6
45°	506.2	501.4	500.1	501.4	497.8	499.0	502.6	500.1
47.5°	345.2	345.2	342.8	339.1	344.0	345.2	340.4	340.4
50°	231.8	231.8	229.4	228.1	230.6	229.4	226.9	230.6
52.5°	147.6	142.8	142.8	145.1	142.8	140.2	144.0	141.5
55°	80.5	78.1	78.1	80.5	78.1	78.1	76.9	79.2
57.5°	39.0	40.2	39.0	39.0	39.0	39.0	37.9	39.0
60°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
62.5°	7.4	7.4	6.1	6.1	6.1	6.1	6.1	6.1
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
67.5°	3.6	3.6	3.6	3.6	3.6	4.9	3.6	3.6
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	3.6	3.6	4.9	4.9	4.9	4.9	4.9	4.9
75°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)