

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: P252380

Luminaire Tested: **LE\_6B30D010 EC6B30509024 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B30D010 EC6B30509024 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2413.8 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

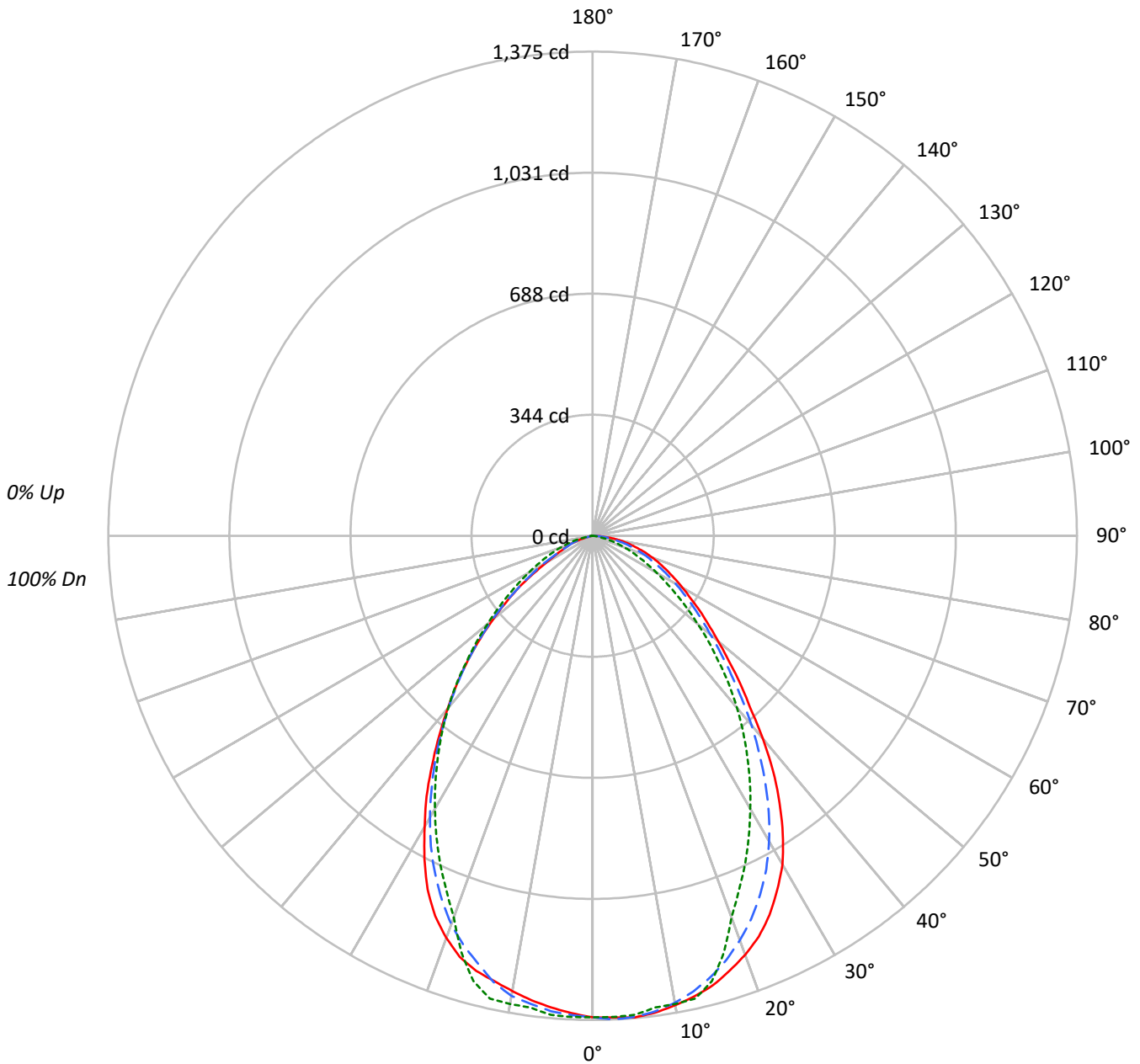
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252380

CATALOG NUMBER: LE\_6B30D010 EC6B30509024 6LBLWW1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P252380

CATALOG NUMBER: LE\_6B30D010 EC6B30509024 6LBLWW1LI

**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	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

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

	0°	90°	180°
0°	89223	89223	89223
5°	89918	89453	88051
10°	89665	89427	86956
15°	89257	88413	86380
20°	87923	80036	84348
25°	85533	73777	79788
30°	81217	67438	71853
35°	73703	60968	63237
40°	63993	54302	54455
45°	54574	46704	46215
50°	47236	39482	37310
55°	42222	32929	28891
60°	38479	27349	19468
65°	35907	22477	14526
70°	34221	18293	12208
75°	32240	12982	4033
80°	30733	6688	1315
85°	25301	4042	0



TEST NUMBER: P252380

CATALOG NUMBER: LE\_6B30D010 EC6B30509024 6LBLWW1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.1	5.4
10°-20°	361.2	15.0
20°-30°	498.6	20.7
30°-40°	507.4	21.0
40°-50°	407.8	16.9
50°-60°	271.1	11.2
60°-70°	154.5	6.4
70°-80°	69.4	2.9
80°-90°	14.6	0.6
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°	989.0	41.0
0°-40°	1496.3	62.0
0°-60°	2175.2	90.1
0°-90°	2413.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1368	1368	1368	1368	1368	
5°	1373	1371	1366	1355	1344	130
15°	1322	1297	1309	1258	1279	372
25°	1188	1124	1025	1059	1108	545
35°	925	854	766	780	794	575
45°	592	556	506	501	501	459
55°	371	346	290	258	254	334
65°	233	208	146	94	94	232
75°	128	107	52	21	16	137
85°	34	23	5	2	0	40
90°	0	0	0	0	0	



TEST NUMBER: P252380

CATALOG NUMBER: LE\_6B30D010 EC6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1369.4	1376.5	1374.8	1373.0	1374.8	1373.0	1369.4	1369.4	1365.9	1365.9	1374.8
5°	1373.0	1376.5	1374.8	1373.0	1373.0	1374.8	1367.6	1367.6	1364.1	1362.4	1371.2
7.5°	1365.9	1371.2	1367.6	1367.6	1365.9	1367.6	1360.5	1360.5	1355.2	1353.5	1362.4
10°	1353.5	1360.5	1357.0	1357.0	1357.0	1353.5	1349.9	1348.1	1342.8	1341.0	1346.4
12.5°	1339.2	1344.5	1342.8	1339.2	1339.2	1339.2	1332.1	1330.4	1323.2	1319.8	1325.0
15°	1321.5	1325.0	1323.2	1321.5	1317.9	1317.9	1310.9	1307.2	1300.1	1293.0	1296.6
17.5°	1294.9	1300.1	1296.6	1294.9	1289.5	1289.5	1282.4	1278.9	1268.1	1261.1	1262.9
20°	1266.4	1268.1	1266.4	1262.9	1257.5	1255.8	1248.6	1241.5	1232.6	1223.8	1222.0
22.5°	1232.6	1234.5	1229.1	1225.5	1220.2	1218.5	1209.6	1204.2	1190.0	1179.4	1177.6
25°	1188.2	1190.0	1190.0	1181.1	1177.6	1174.0	1165.1	1156.2	1143.9	1129.6	1124.4
27.5°	1135.0	1140.2	1136.8	1127.9	1120.8	1119.0	1110.1	1103.0	1087.0	1074.6	1067.5
30°	1078.1	1076.4	1074.6	1069.2	1058.6	1056.9	1048.0	1039.0	1026.6	1010.6	1001.8
32.5°	1005.2	1005.2	1003.5	998.2	987.5	984.0	976.9	966.2	952.0	939.6	930.8
35°	925.4	927.1	925.4	914.8	907.6	904.1	900.5	888.1	875.6	861.5	854.4
37.5°	841.9	836.6	838.4	829.5	820.6	824.1	813.5	808.1	794.0	783.2	776.1
40°	751.4	754.9	747.8	744.2	738.9	733.5	733.5	724.6	717.6	705.1	701.6
42.5°	662.5	667.9	666.1	662.5	655.4	657.1	648.2	644.8	635.9	630.5	625.2
45°	591.5	591.5	591.5	587.9	586.1	582.6	577.2	571.9	566.6	559.5	556.0
47.5°	522.2	522.2	524.0	520.4	516.9	515.1	511.5	511.5	502.6	495.5	492.0
50°	465.4	465.4	465.4	461.8	458.2	458.2	454.8	451.1	445.9	440.5	437.0
52.5°	413.9	413.9	413.9	410.2	408.5	406.8	405.0	403.2	396.1	392.5	389.0
55°	371.2	369.5	369.5	367.6	364.1	364.1	362.4	358.8	353.5	348.1	346.4
57.5°	328.6	330.4	328.6	328.6	325.0	325.0	321.5	319.8	314.4	310.9	307.2
60°	294.9	294.9	294.9	293.1	289.5	291.2	287.8	286.0	280.6	275.2	271.8
62.5°	261.1	262.9	262.9	261.1	257.5	257.5	255.8	254.0	248.6	243.4	238.0
65°	232.6	232.6	232.6	230.9	229.1	229.1	227.4	225.6	220.2	213.1	207.8
67.5°	206.0	204.2	204.2	204.2	202.5	200.8	198.9	197.1	191.9	186.5	179.4
70°	179.4	179.4	179.4	177.6	174.1	175.9	174.1	172.2	167.0	161.6	156.2
72.5°	154.5	154.5	152.8	151.0	151.0	149.2	149.2	147.4	142.1	135.0	129.6
75°	127.9	127.9	127.9	127.9	124.4	126.1	122.5	120.8	117.2	111.9	106.6
77.5°	104.8	104.8	104.8	103.0	101.2	101.2	99.5	97.8	92.4	88.8	81.8
80°	81.8	81.8	81.8	81.8	79.9	78.1	76.4	74.6	71.0	65.8	60.4
82.5°	60.4	60.4	58.6	58.6	58.6	56.9	55.0	53.2	49.8	46.1	42.6
85°	33.8	35.5	35.5	32.0	33.8	32.0	32.0	28.4	28.4	24.9	23.1
87.5°	12.4	10.6	10.6	10.6	10.6	10.6	10.6	8.9	8.9	8.9	7.1
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: P252380

CATALOG NUMBER: LE\_6B30D010 EC6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1367.6	1365.9	1373.0	1373.0	1362.4	1367.6	1369.4	1365.9	1365.9	1367.6	1362.4
5°	1364.1	1360.5	1367.6	1369.4	1358.8	1364.1	1365.9	1362.4	1364.1	1365.9	1358.8
7.5°	1351.6	1351.6	1357.0	1358.8	1348.1	1353.5	1353.5	1349.9	1351.6	1351.6	1346.4
10°	1339.2	1333.9	1339.2	1339.2	1330.4	1332.1	1335.6	1333.9	1341.0	1349.9	1349.9
12.5°	1316.1	1310.9	1319.8	1319.8	1314.4	1321.5	1330.4	1335.6	1342.8	1346.4	1335.6
15°	1287.8	1289.5	1305.5	1317.9	1312.6	1323.2	1332.1	1328.6	1319.8	1309.0	1293.0
17.5°	1250.4	1245.1	1259.2	1266.4	1259.2	1262.9	1270.0	1262.9	1248.6	1239.8	1218.5
20°	1207.8	1193.6	1193.6	1190.0	1177.6	1177.6	1175.9	1163.4	1158.1	1152.8	1143.9
22.5°	1159.9	1143.9	1138.5	1127.9	1117.2	1115.4	1110.1	1097.6	1090.6	1087.0	1076.4
25°	1104.8	1090.6	1081.8	1071.0	1055.0	1051.5	1046.1	1033.8	1030.1	1024.9	1016.0
27.5°	1048.0	1030.1	1017.8	1007.1	992.9	991.1	980.5	971.6	964.5	960.9	953.8
30°	982.2	962.6	953.8	939.6	928.9	925.4	916.5	904.1	898.8	895.2	889.9
32.5°	909.4	893.4	884.5	872.1	857.9	859.6	849.0	838.4	834.8	831.2	825.9
35°	838.4	822.4	811.8	801.0	792.1	788.6	781.5	772.6	767.2	765.5	762.0
37.5°	760.2	747.8	738.9	728.2	721.1	717.6	714.0	705.1	701.6	701.6	694.5
40°	683.9	673.1	666.1	660.8	651.9	650.1	646.5	641.2	639.4	637.6	632.4
42.5°	614.5	600.4	595.0	591.5	586.1	582.6	580.8	577.2	575.5	573.8	568.4
45°	548.9	536.4	531.1	527.5	522.2	520.4	518.6	513.4	509.8	506.2	504.4
47.5°	484.9	476.0	474.2	465.4	461.8	458.2	454.8	451.1	449.4	447.6	440.5
50°	429.9	424.5	415.6	410.2	406.8	405.0	397.9	392.5	390.8	389.0	383.6
52.5°	380.1	373.0	367.6	358.8	357.0	353.5	349.9	342.8	339.2	337.5	332.1
55°	335.8	330.4	323.2	316.1	310.9	309.0	303.8	296.6	293.1	289.5	286.0
57.5°	298.4	289.5	282.4	275.2	271.8	266.4	261.1	257.5	252.2	246.9	241.5
60°	262.9	255.8	246.9	239.8	236.2	232.6	225.6	220.2	214.9	209.6	204.2
62.5°	229.1	222.0	213.1	206.0	202.5	198.9	191.9	186.5	181.1	175.9	168.8
65°	198.9	191.9	184.8	177.6	174.1	170.5	163.4	156.2	151.0	145.6	138.5
67.5°	174.1	165.1	158.1	151.0	147.4	143.9	136.8	131.4	124.4	119.0	111.9
70°	147.4	140.4	135.0	127.9	124.4	120.8	113.6	106.6	101.2	95.9	88.8
72.5°	124.4	115.5	110.1	103.0	99.5	97.8	90.6	85.2	79.9	72.9	67.5
75°	99.5	92.4	85.2	79.9	76.4	74.6	67.5	62.1	56.9	51.5	46.1
77.5°	76.4	71.0	64.0	58.6	55.0	53.2	46.1	40.9	35.5	32.0	26.6
80°	56.9	49.8	46.1	40.9	39.1	35.5	32.0	26.6	23.1	17.8	14.2
82.5°	39.1	33.8	30.2	26.6	24.9	23.1	19.5	16.0	12.4	10.6	8.9
85°	21.4	17.8	16.0	14.2	12.4	12.4	10.6	8.9	7.1	5.4	3.5
87.5°	7.1	5.4	5.4	5.4	5.4	3.5	3.5	3.5	1.8	1.8	1.8
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: P252380

CATALOG NUMBER: LE\_6B30D010 EC6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1365.9	1365.9	1365.9	1364.1	1364.1	1364.1	1362.4	1369.4	1362.4	1360.5	1365.9
5°	1364.1	1360.5	1360.5	1360.5	1360.5	1358.8	1357.0	1360.5	1355.2	1353.5	1353.5
7.5°	1353.5	1351.6	1351.6	1349.9	1348.1	1346.4	1344.5	1346.4	1341.0	1339.2	1339.2
10°	1355.2	1351.6	1351.6	1346.4	1342.8	1337.5	1332.1	1333.9	1326.8	1321.5	1321.5
12.5°	1333.9	1325.0	1319.8	1314.4	1310.9	1309.0	1301.9	1305.5	1298.4	1296.6	1296.6
15°	1286.0	1275.2	1266.4	1262.9	1262.9	1259.2	1254.0	1261.1	1257.5	1259.2	1268.1
17.5°	1211.4	1206.0	1200.8	1198.9	1200.8	1204.2	1207.8	1218.5	1218.5	1223.8	1232.6
20°	1145.6	1142.1	1145.6	1145.6	1147.4	1154.5	1161.6	1170.5	1174.0	1179.4	1191.8
22.5°	1081.8	1081.8	1085.2	1090.6	1088.8	1101.2	1103.0	1119.0	1119.0	1129.6	1140.2
25°	1019.5	1019.5	1023.1	1024.9	1028.4	1035.5	1042.6	1055.0	1058.6	1069.2	1078.1
27.5°	959.1	957.4	957.4	959.1	962.6	971.6	975.1	989.4	994.6	1001.8	1010.6
30°	891.6	889.9	893.4	897.0	895.2	904.1	909.4	920.0	923.6	930.8	937.9
32.5°	827.8	827.8	827.8	831.2	831.2	838.4	838.4	850.8	850.8	856.1	863.2
35°	762.0	762.0	763.8	765.5	767.2	769.1	770.9	778.0	779.8	781.5	785.1
37.5°	699.8	698.0	699.8	699.8	696.2	703.4	703.4	710.5	705.1	710.5	712.2
40°	635.9	635.9	634.1	634.1	634.1	637.6	634.1	639.4	635.9	639.4	637.6
42.5°	570.1	570.1	566.6	570.1	568.4	568.4	568.4	571.9	566.6	570.1	571.9
45°	504.4	502.6	502.6	500.9	500.9	500.9	502.6	502.6	500.9	504.4	504.4
47.5°	440.5	438.8	438.8	438.8	438.8	440.5	435.1	438.8	435.1	435.1	435.1
50°	385.4	383.6	381.9	380.1	378.4	378.4	376.5	376.5	373.0	371.2	369.5
52.5°	332.1	330.4	326.9	326.9	325.0	323.2	317.9	317.9	312.6	310.9	310.9
55°	284.1	278.9	277.1	273.5	273.5	270.0	266.4	262.9	257.5	254.0	254.0
57.5°	239.8	234.5	230.9	229.1	227.4	223.8	216.8	214.9	207.8	206.0	204.2
60°	200.8	195.4	190.0	186.5	184.8	179.4	172.2	168.8	165.1	159.9	154.5
62.5°	163.4	158.1	151.0	149.2	145.6	140.4	135.0	129.6	126.1	120.8	117.2
65°	131.4	126.1	120.8	117.2	113.6	108.4	103.0	97.8	94.1	92.4	90.6
67.5°	106.6	99.5	94.1	92.4	88.8	85.2	79.9	78.1	74.6	74.6	74.6
70°	83.5	78.1	72.9	71.0	69.2	65.8	62.1	62.1	62.1	62.1	62.1
72.5°	62.1	58.6	53.2	51.5	49.8	48.0	44.4	46.1	44.4	44.4	44.4
75°	39.1	35.5	32.0	30.2	28.4	26.6	24.9	23.1	21.4	19.5	19.5
77.5°	21.4	17.8	16.0	14.2	14.2	12.4	10.6	10.6	8.9	8.9	8.9
80°	12.4	10.6	8.9	7.1	7.1	5.4	5.4	5.4	5.4	3.5	3.5
82.5°	7.1	5.4	3.5	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8
85°	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P252380

CATALOG NUMBER: LE\_6B30D010 EC6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1357.0	1362.4	1357.0	1362.4	1362.4	1362.4	1362.4	1357.0
5°	1348.1	1351.6	1346.4	1349.9	1351.6	1349.9	1349.9	1344.5
7.5°	1332.1	1335.6	1330.4	1335.6	1337.5	1335.6	1333.9	1330.4
10°	1316.1	1317.9	1312.6	1316.1	1319.8	1319.8	1317.9	1312.6
12.5°	1291.2	1296.6	1291.2	1294.9	1298.4	1300.1	1300.1	1294.9
15°	1262.9	1271.8	1268.1	1273.5	1278.9	1280.6	1280.6	1278.9
17.5°	1234.5	1243.4	1238.0	1246.9	1252.2	1255.8	1257.5	1254.0
20°	1193.6	1204.2	1200.8	1207.8	1214.9	1220.2	1220.2	1214.9
22.5°	1140.2	1154.5	1152.8	1158.1	1167.0	1168.8	1172.2	1168.8
25°	1081.8	1092.4	1090.6	1095.9	1106.5	1106.5	1108.4	1108.4
27.5°	1014.2	1024.9	1023.1	1026.6	1033.8	1035.5	1037.2	1033.8
30°	941.4	946.8	946.8	952.0	957.4	959.1	959.1	953.8
32.5°	861.5	868.5	872.1	870.4	875.6	879.2	877.4	877.4
35°	788.6	790.4	792.1	794.0	795.8	799.2	795.8	794.0
37.5°	710.5	715.8	712.2	715.8	719.4	717.6	715.8	715.8
40°	639.4	641.2	637.6	641.2	643.0	643.0	643.0	639.4
42.5°	568.4	571.9	568.4	571.9	571.9	571.9	571.9	570.1
45°	497.4	500.9	500.9	502.6	502.6	500.9	500.9	500.9
47.5°	431.6	435.1	431.6	435.1	437.0	433.4	433.4	433.4
50°	369.5	367.6	367.6	369.5	369.5	369.5	369.5	367.6
52.5°	305.5	307.2	307.2	307.2	309.0	307.2	309.0	309.0
55°	250.5	250.5	250.5	252.2	250.5	250.5	252.2	254.0
57.5°	200.8	198.9	197.1	197.1	198.9	197.1	197.1	197.1
60°	154.5	152.8	151.0	151.0	151.0	151.0	151.0	149.2
62.5°	115.5	115.5	115.5	117.2	117.2	117.2	117.2	119.0
65°	92.4	92.4	92.4	92.4	92.4	92.4	92.4	94.1
67.5°	74.6	74.6	74.6	76.4	76.4	76.4	76.4	76.4
70°	62.1	62.1	64.0	62.1	64.0	64.0	64.0	64.0
72.5°	42.6	42.6	42.6	42.6	42.6	40.9	42.6	40.9
75°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.0
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	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)