

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: P252141

Luminaire Tested: **LE_6B15D010 EC6B10208027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252141
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 EC6B10208027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2232.5 lumens
Efficiency: N/A
Efficacy: 155.0 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

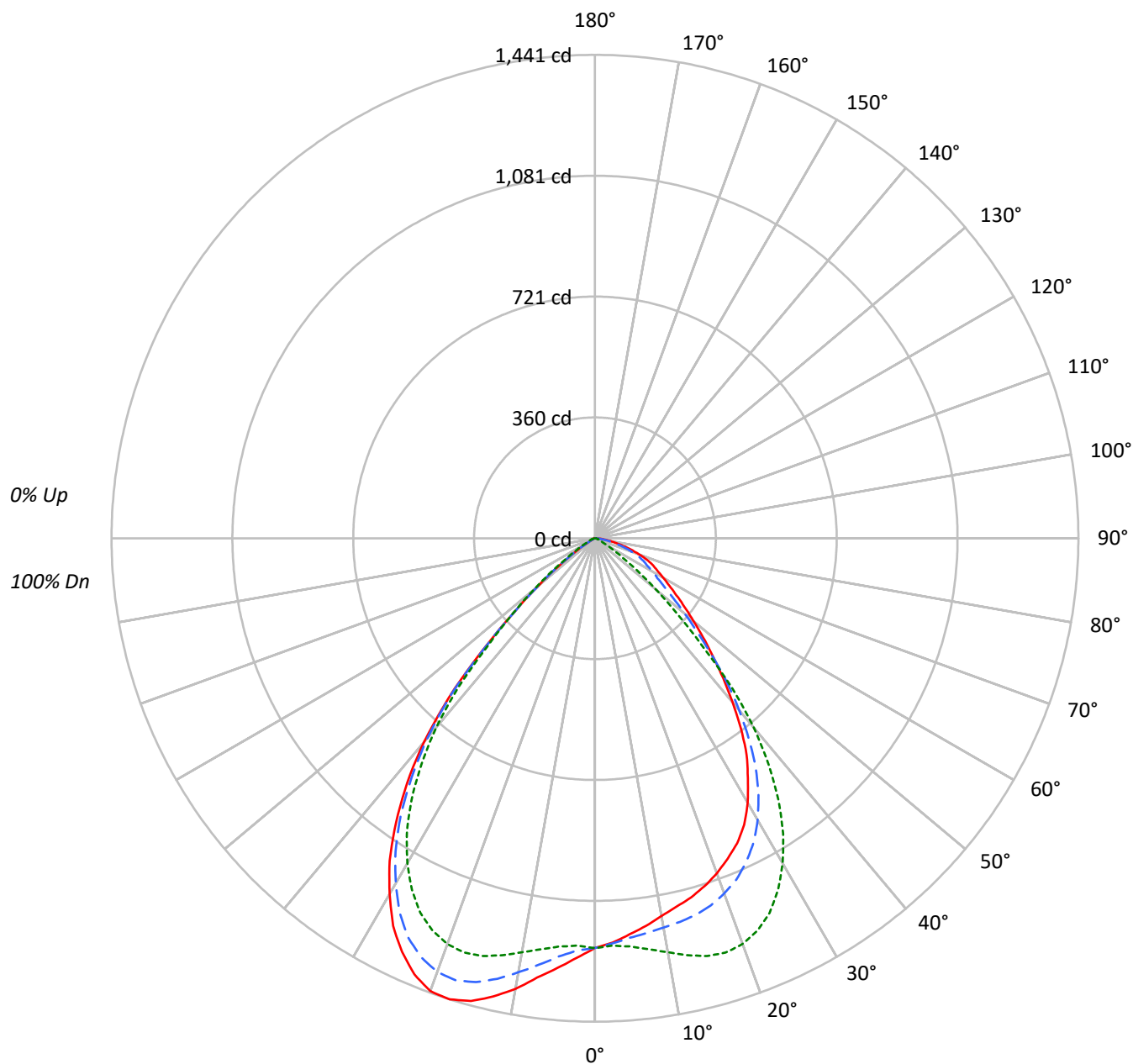
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	103	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	89	83	78	95	88	82	78	85	80	76		83	78	75		80
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	61	56	78	68	61	56	66	60	55		64	59	55		63
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54
9	66	54	47	42	64	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	39		48	43	39		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79685	79685	79685
5°	77612	79989	84194
10°	75727	83001	90348
15°	74843	87068	96450
20°	73767	89339	99712
25°	72201	88678	97914
30°	68614	84268	92193
35°	62768	75980	82304
40°	54293	62750	67528
45°	45781	41150	44176
50°	38873	23831	22390
55°	33736	11420	8633
60°	30467	5337	2140
65°	29562	3072	710
70°	26514	2461	668
75°	21779	1764	277
80°	16230	902	0
85°	13923	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	5.3
10°-20°	359.5	16.1
20°-30°	549.3	24.6
30°-40°	574.6	25.7
40°-50°	372.7	16.7
50°-60°	148.0	6.6
60°-70°	70.2	3.1
70°-80°	33.4	1.5
80°-90°	6.8	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°	1026.8	46.0
0°-40°	1601.4	71.7
0°-60°	2122.1	95.1
0°-90°	2232.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1221	1221	1221	1221	1221	
5°	1185	1196	1221	1252	1286	112
15°	1108	1162	1289	1370	1428	312
25°	1003	1066	1232	1315	1360	459
35°	788	836	954	1010	1033	487
45°	496	492	446	473	479	386
55°	297	252	100	78	76	269
65°	192	159	20	5	5	187
75°	86	70	7	2	1	93
85°	19	12	0	0	0	22
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°	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4
2.5°	1206.1	1208.5	1195.6	1192.1	1201.5	1205.0	1206.1	1202.6	1203.9	1208.5	1208.5
5°	1185.1	1187.5	1175.9	1172.4	1181.6	1184.0	1187.5	1186.4	1189.9	1196.9	1195.6
7.5°	1165.2	1168.8	1156.0	1151.2	1163.0	1168.8	1171.1	1171.1	1175.9	1185.1	1186.4
10°	1143.1	1147.8	1136.1	1133.8	1146.6	1152.5	1153.6	1156.0	1163.0	1175.9	1178.1
12.5°	1124.5	1129.1	1120.9	1117.4	1131.5	1137.2	1139.6	1144.2	1152.5	1168.8	1171.1
15°	1108.1	1111.6	1102.2	1099.9	1113.9	1120.9	1122.1	1129.1	1139.6	1158.2	1161.8
17.5°	1087.1	1089.4	1082.4	1080.1	1094.1	1101.1	1102.2	1110.4	1123.2	1142.0	1147.8
20°	1062.5	1064.9	1057.9	1055.5	1069.5	1077.8	1078.9	1085.9	1101.1	1120.9	1126.8
22.5°	1033.4	1038.0	1029.9	1027.5	1041.5	1048.5	1052.0	1057.9	1073.1	1092.9	1101.1
25°	1003.0	1003.0	997.1	996.0	1008.9	1017.0	1015.9	1024.0	1039.2	1059.0	1066.0
27.5°	963.2	962.1	956.2	955.1	969.1	976.1	973.9	982.0	996.0	1015.9	1022.9
30°	910.8	913.1	904.9	902.6	914.2	926.0	924.8	933.0	947.0	965.6	970.2
32.5°	847.8	850.0	848.9	845.4	855.9	861.8	865.2	871.0	882.8	902.6	907.2
35°	788.1	784.6	780.0	780.0	790.5	799.9	796.4	803.4	815.0	834.9	836.0
37.5°	714.6	713.4	711.1	708.8	720.4	722.8	724.0	728.6	739.1	755.5	753.1
40°	637.5	638.8	637.5	632.9	639.9	649.2	648.0	650.4	659.8	671.4	667.9
42.5°	565.1	565.1	565.1	560.5	568.6	573.2	575.6	574.5	576.9	587.4	582.6
45°	496.2	497.4	496.2	495.1	496.2	498.6	496.2	495.1	495.1	498.6	491.6
47.5°	436.8	436.8	433.2	429.8	433.2	434.4	430.9	427.4	426.2	425.0	413.4
50°	383.0	381.9	380.6	374.9	378.4	379.5	374.9	372.5	367.8	362.0	348.0
52.5°	336.2	335.1	334.0	328.1	330.5	331.6	327.0	322.2	316.4	311.8	294.2
55°	296.6	295.4	295.4	291.9	289.6	291.9	287.2	283.8	275.6	269.8	252.2
57.5°	262.8	262.8	260.4	256.9	258.0	258.0	253.4	248.8	241.8	234.8	220.6
60°	233.5	233.5	233.5	230.0	230.0	230.0	227.8	223.0	217.1	210.1	196.1
62.5°	210.1	210.1	209.0	205.5	206.6	206.6	204.4	199.6	193.9	189.1	175.1
65°	191.5	191.5	191.5	188.0	188.0	189.1	186.9	182.1	177.5	171.6	158.8
67.5°	168.1	167.0	167.0	164.6	165.8	167.0	164.6	161.1	155.2	151.8	140.1
70°	139.0	140.1	141.2	137.8	139.0	139.0	137.8	134.2	130.8	127.2	116.8
72.5°	113.2	113.2	112.1	110.9	110.9	112.1	109.8	106.2	103.9	101.6	93.4
75°	86.4	85.2	86.4	84.1	84.1	84.1	81.8	80.6	79.4	75.9	70.0
77.5°	63.0	61.9	61.9	59.5	60.8	60.8	59.5	57.2	54.9	53.8	49.0
80°	43.2	43.2	43.2	42.0	42.0	40.9	40.9	39.8	37.4	36.2	33.9
82.5°	29.2	29.2	29.2	28.0	28.0	28.0	26.9	25.8	24.5	23.4	21.0
85°	18.6	18.6	18.6	17.5	17.5	17.5	16.4	16.4	15.1	14.0	11.6
87.5°	10.5	10.5	10.5	9.4	9.4	9.4	9.4	9.4	8.1	7.0	5.9
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°	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4
2.5°	1216.6	1200.4	1210.9	1210.9	1207.4	1216.6	1222.5	1227.2	1226.0	1215.5	1214.4
5°	1207.4	1193.4	1205.0	1206.1	1202.6	1215.5	1223.8	1229.5	1230.8	1221.4	1222.5
7.5°	1200.4	1188.6	1203.9	1208.5	1207.4	1219.0	1228.4	1237.8	1242.4	1235.4	1236.5
10°	1196.9	1187.5	1203.9	1210.9	1212.0	1224.9	1238.9	1251.8	1257.5	1252.9	1256.4
12.5°	1192.1	1186.4	1205.0	1215.5	1220.1	1233.0	1250.5	1265.8	1275.1	1272.8	1279.8
15°	1187.5	1182.9	1205.0	1220.1	1226.0	1237.8	1257.5	1279.8	1290.2	1289.1	1298.4
17.5°	1175.9	1174.6	1198.0	1214.4	1222.5	1236.5	1255.2	1282.1	1292.6	1294.9	1306.6
20°	1157.1	1157.1	1182.9	1200.4	1209.6	1222.5	1245.9	1271.5	1284.4	1286.8	1299.6
22.5°	1131.5	1133.8	1158.2	1175.9	1189.9	1199.1	1223.8	1250.5	1262.2	1265.8	1279.8
25°	1097.6	1099.9	1123.2	1140.8	1156.0	1166.5	1189.9	1214.4	1228.4	1231.9	1242.4
27.5°	1053.2	1057.9	1080.1	1097.6	1110.4	1117.4	1142.0	1167.6	1178.1	1181.6	1192.1
30°	1001.9	1003.0	1025.2	1040.4	1053.2	1059.0	1080.1	1106.9	1115.1	1118.6	1133.8
32.5°	938.8	937.6	958.6	972.6	983.1	990.1	1012.4	1029.9	1038.0	1043.9	1052.0
35°	862.9	861.8	876.9	893.2	901.4	903.8	926.0	944.6	949.2	954.0	964.5
37.5°	777.6	777.6	790.5	798.6	808.0	811.5	822.0	843.0	851.2	850.0	858.2
40°	687.8	683.1	692.4	700.6	702.9	704.1	714.6	731.0	736.8	736.8	742.6
42.5°	593.1	586.1	587.4	592.0	594.4	586.1	593.1	603.6	600.1	604.9	606.0
45°	492.8	482.2	477.6	467.0	469.4	461.2	456.5	458.9	457.8	446.0	448.4
47.5°	411.0	392.4	384.1	369.0	365.5	356.1	350.2	339.8	330.5	330.5	324.6
50°	342.1	323.4	307.1	289.6	283.8	275.6	262.8	248.8	241.8	234.8	228.9
52.5°	287.2	267.4	247.5	228.9	220.6	210.1	192.6	178.6	165.8	158.8	151.8
55°	242.9	220.6	199.6	179.9	169.2	158.8	141.2	125.0	109.8	100.4	94.6
57.5°	209.0	188.0	165.8	144.8	135.5	123.8	105.1	87.6	73.5	63.0	57.2
60°	184.5	163.5	143.6	121.4	112.1	100.4	80.6	64.2	50.2	40.9	33.9
62.5°	163.5	144.8	123.8	103.9	94.6	82.9	64.2	47.9	35.0	25.8	19.9
65°	148.2	129.6	112.1	92.2	84.1	72.4	54.9	39.8	28.0	19.9	14.0
67.5°	130.8	114.4	96.9	80.6	72.4	63.0	46.8	33.9	23.4	16.4	11.6
70°	109.8	96.9	81.8	66.5	60.8	52.5	38.5	28.0	18.6	12.9	9.4
72.5°	87.6	77.1	65.4	53.8	49.0	40.9	31.5	22.1	14.0	9.4	7.0
75°	66.5	58.4	49.0	40.9	36.2	31.5	23.4	16.4	10.5	7.0	4.6
77.5°	45.5	42.0	35.0	28.0	25.8	22.1	15.1	10.5	7.0	4.6	2.4
80°	31.5	28.0	23.4	18.6	16.4	14.0	9.4	7.0	3.5	2.4	1.1
82.5°	19.9	16.4	14.0	11.6	10.5	8.1	5.9	3.5	2.4	1.1	1.1
85°	10.5	9.4	8.1	5.9	5.9	4.6	3.5	2.4	1.1	0.0	0.0
87.5°	5.9	4.6	3.5	2.4	2.4	1.1	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4
2.5°	1228.4	1228.4	1227.2	1241.2	1224.9	1241.2	1233.0	1241.2	1229.5	1228.4	1229.5
5°	1237.8	1241.2	1242.4	1255.2	1240.0	1259.9	1252.9	1259.9	1251.8	1254.0	1257.5
7.5°	1256.4	1262.2	1261.0	1277.4	1262.2	1284.4	1279.8	1290.2	1282.1	1284.4	1289.1
10°	1277.4	1284.4	1285.6	1301.9	1287.9	1314.8	1308.9	1320.6	1313.6	1317.1	1323.0
12.5°	1301.9	1310.1	1311.2	1330.0	1314.8	1342.8	1339.2	1351.0	1345.1	1348.6	1355.6
15°	1320.6	1332.2	1334.6	1353.2	1337.0	1366.1	1363.8	1379.0	1369.6	1375.5	1381.4
17.5°	1330.0	1340.5	1345.1	1362.6	1348.6	1377.9	1375.5	1388.4	1381.4	1387.1	1394.1
20°	1324.1	1337.0	1340.5	1358.0	1344.0	1373.1	1369.6	1382.5	1375.5	1380.1	1387.1
22.5°	1303.1	1315.9	1320.6	1337.0	1324.1	1351.0	1349.8	1361.5	1352.1	1358.0	1363.8
25°	1265.8	1279.8	1282.1	1297.2	1283.2	1311.2	1308.9	1321.8	1314.8	1318.2	1326.5
27.5°	1212.0	1228.4	1231.9	1244.8	1234.2	1257.5	1257.5	1268.0	1259.9	1259.9	1268.0
30°	1147.8	1164.1	1166.5	1177.0	1167.6	1188.6	1189.9	1200.4	1187.5	1194.5	1195.6
32.5°	1069.5	1080.1	1087.1	1096.4	1082.4	1109.2	1105.8	1113.9	1106.9	1106.9	1112.8
35°	975.0	987.9	991.4	1003.0	991.4	1012.4	1012.4	1017.0	1010.0	1010.0	1019.4
37.5°	872.2	881.6	882.8	894.4	885.1	902.6	901.4	904.9	897.9	902.6	902.6
40°	752.0	759.0	761.2	767.1	766.0	778.9	777.6	780.0	776.5	777.6	780.0
42.5°	611.9	621.1	625.9	630.5	623.5	641.0	637.5	641.0	639.9	641.0	644.5
45°	450.8	457.8	461.2	462.4	460.0	470.5	478.8	471.8	472.9	470.5	475.2
47.5°	325.8	327.0	324.6	331.6	325.8	330.5	332.8	334.0	327.0	325.8	330.5
50°	223.0	228.9	220.6	224.1	223.0	227.8	225.4	226.5	219.5	223.0	220.6
52.5°	148.2	147.1	144.8	146.0	143.6	143.6	143.6	146.0	141.2	139.0	136.6
55°	89.9	87.6	82.9	81.8	81.8	82.9	80.6	78.2	78.2	77.1	77.1
57.5°	52.5	49.0	46.8	45.5	43.2	42.0	40.9	40.9	38.5	38.5	38.5
60°	29.2	25.8	23.4	21.0	21.0	19.9	18.6	17.5	17.5	17.5	16.4
62.5°	15.1	12.9	10.5	9.4	9.4	8.1	7.0	7.0	7.0	7.0	5.9
65°	10.5	8.1	7.0	5.9	5.9	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	8.1	7.0	5.9	4.6	4.6	4.6	3.5	3.5	3.5	3.5	3.5
70°	7.0	4.6	4.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	4.6	4.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	3.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	1.1	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: P252141

CATALOG NUMBER: LE_6B15D010 EC6B10208027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4
2.5°	1240.0	1238.9	1240.0	1242.4	1237.8	1251.8	1244.8	1251.8
5°	1266.9	1268.0	1269.2	1272.8	1266.9	1284.4	1275.1	1285.6
7.5°	1301.9	1303.1	1304.2	1307.8	1304.2	1321.8	1311.2	1320.6
10°	1338.1	1340.5	1340.5	1346.2	1342.8	1359.1	1352.1	1363.8
12.5°	1372.0	1374.4	1376.6	1380.1	1377.9	1395.4	1389.5	1398.9
15°	1398.9	1403.5	1404.6	1409.4	1407.0	1425.8	1418.6	1428.0
17.5°	1411.6	1416.4	1416.4	1422.2	1419.9	1439.8	1430.4	1440.9
20°	1404.6	1408.1	1409.4	1415.1	1412.9	1432.8	1423.4	1436.2
22.5°	1382.5	1383.6	1384.9	1390.6	1389.5	1407.0	1398.9	1407.0
25°	1341.6	1345.1	1344.0	1348.6	1348.6	1362.6	1353.2	1360.2
27.5°	1283.2	1286.8	1286.8	1292.6	1287.9	1301.9	1292.6	1303.1
30°	1212.0	1215.5	1213.1	1217.9	1213.1	1227.2	1220.1	1223.8
32.5°	1126.8	1126.8	1128.0	1129.1	1126.8	1139.6	1132.6	1139.6
35°	1025.2	1027.5	1028.8	1029.9	1027.5	1036.9	1028.8	1033.4
37.5°	910.8	916.6	915.4	916.6	913.1	924.8	917.8	920.1
40°	788.1	788.1	787.0	789.4	785.9	795.1	790.5	792.9
42.5°	645.8	649.2	644.5	650.4	641.0	653.9	649.2	645.8
45°	484.6	479.9	478.8	479.9	476.4	477.6	481.1	478.8
47.5°	330.5	330.5	328.1	324.6	329.2	330.5	325.8	325.8
50°	221.9	221.9	219.5	218.4	220.6	219.5	217.1	220.6
52.5°	141.2	136.6	136.6	139.0	136.6	134.2	137.8	135.5
55°	77.1	74.8	74.8	77.1	74.8	74.8	73.5	75.9
57.5°	37.4	38.5	37.4	37.4	37.4	37.4	36.2	37.4
60°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
62.5°	7.0	7.0	5.9	5.9	5.9	5.9	5.9	5.9
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	3.5	3.5	3.5	3.5	3.5	4.6	3.5	3.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	3.5	3.5	4.6	4.6	4.6	4.6	4.6	4.6
75°	2.4	2.4	2.4	1.1	1.1	1.1	1.1	1.1
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)