

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: P252147

Luminaire Tested: **LE_6B15D010 EC6B10209027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252147
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 EC6B10209027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1916.2 lumens
Efficiency: N/A
Efficacy: 133.1 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

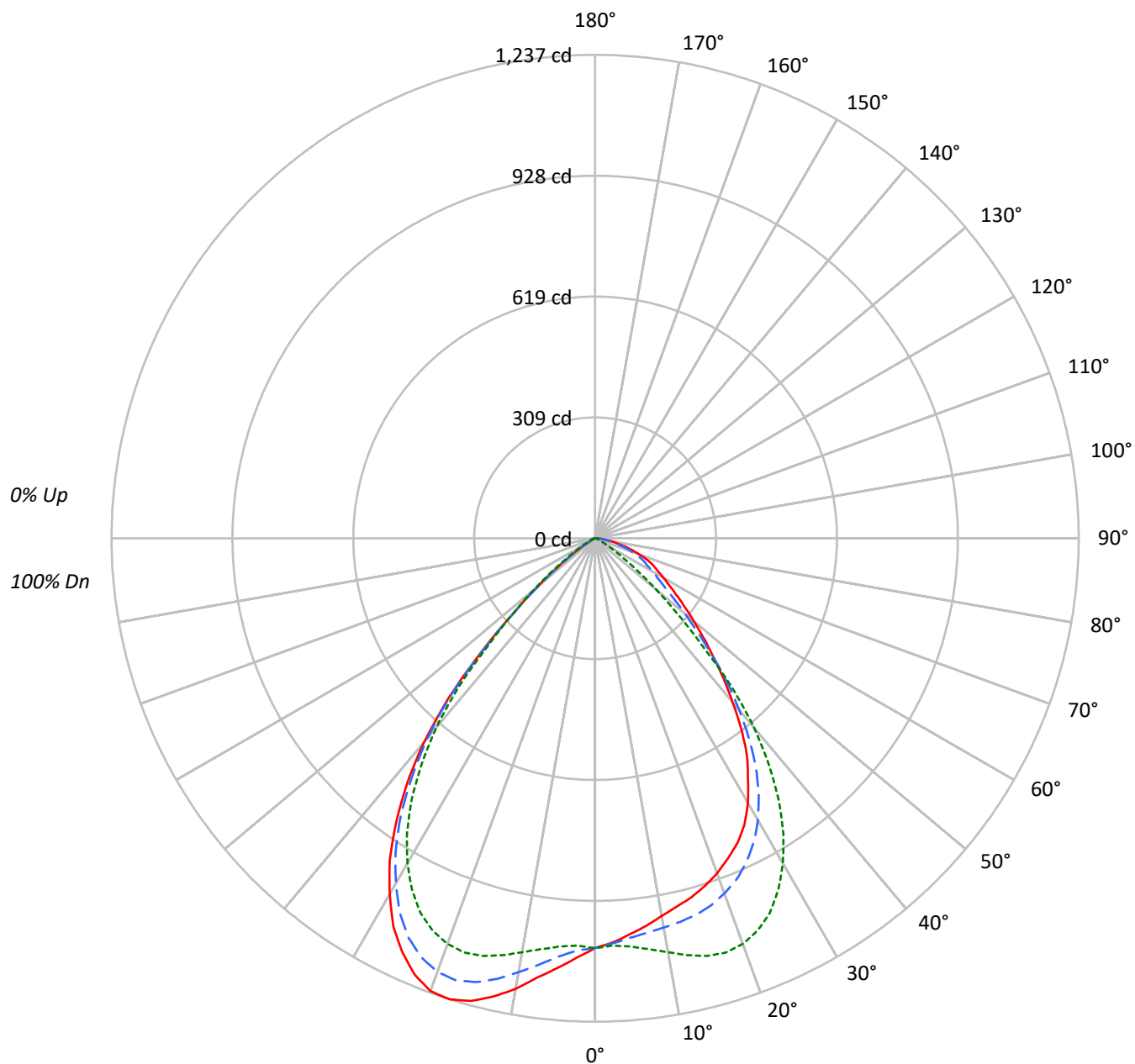
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	68398	68398	68398
5°	66616	68660	72268
10°	65002	71242	77549
15°	64239	74735	82793
20°	63318	76683	85590
25°	61972	76117	84050
30°	58896	72328	79130
35°	53879	65221	70644
40°	46603	53859	57955
45°	39305	35328	37911
50°	33372	20452	19223
55°	28959	9805	7405
60°	26161	4580	1827
65°	25379	2624	617
70°	22737	2098	572
75°	18678	1512	252
80°	13939	751	0
85°	11977	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	5.3
10°-20°	308.6	16.1
20°-30°	471.5	24.6
30°-40°	493.2	25.7
40°-50°	319.9	16.7
50°-60°	127.0	6.6
60°-70°	60.2	3.1
70°-80°	28.6	1.5
80°-90°	5.8	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°	881.4	46.0
0°-40°	1374.5	71.7
0°-60°	1821.5	95.1
0°-90°	1916.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1048	1048	1048	1048	1048	
5°	1017	1026	1048	1074	1104	96
15°	951	997	1106	1176	1226	268
25°	861	915	1057	1128	1168	394
35°	676	718	819	867	887	418
45°	426	422	383	406	411	331
55°	255	216	86	67	65	231
65°	164	136	17	4	4	161
75°	74	60	6	2	1	80
85°	16	10	0	0	0	19
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°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1035.2	1037.4	1026.2	1023.2	1031.2	1034.2	1035.2	1032.2	1033.2	1037.4	1037.4
5°	1017.2	1019.2	1009.2	1006.2	1014.2	1016.2	1019.2	1018.2	1021.2	1027.2	1026.2
7.5°	1000.2	1003.2	992.2	988.2	998.2	1003.2	1005.2	1005.2	1009.2	1017.2	1018.2
10°	981.2	985.2	975.1	973.1	984.2	989.2	990.2	992.2	998.2	1009.2	1011.2
12.5°	965.1	969.1	962.1	959.1	971.1	976.1	978.1	982.2	989.2	1003.2	1005.2
15°	951.1	954.1	946.1	944.1	956.1	962.1	963.1	969.1	978.1	994.2	997.2
17.5°	933.1	935.1	929.1	927.1	939.1	945.1	946.1	953.1	964.1	980.2	985.2
20°	912.0	914.0	908.0	906.0	918.0	925.1	926.1	932.1	945.1	962.1	967.1
22.5°	887.0	891.0	884.0	882.0	894.0	900.0	903.0	908.0	921.0	938.1	945.1
25°	860.9	860.9	855.9	854.9	865.9	873.0	872.0	879.0	892.0	909.0	915.0
27.5°	826.9	825.9	820.9	819.9	831.9	837.9	835.9	842.9	854.9	872.0	878.0
30°	781.8	783.8	776.8	774.8	784.8	794.8	793.8	800.8	812.9	828.9	832.9
32.5°	727.6	729.6	728.6	725.6	734.6	739.6	742.6	747.6	757.8	774.8	778.8
35°	676.5	673.5	669.5	669.5	678.5	686.5	683.5	689.5	699.5	716.6	717.6
37.5°	613.4	612.4	610.4	608.4	618.4	620.4	621.4	625.4	634.4	648.5	646.5
40°	547.2	548.2	547.2	543.2	549.2	557.2	556.2	558.2	566.2	576.2	573.2
42.5°	485.1	485.1	485.1	481.1	488.1	492.1	494.1	493.1	495.1	504.1	500.1
45°	426.0	427.0	426.0	425.0	426.0	428.0	426.0	425.0	425.0	428.0	422.0
47.5°	374.9	374.9	371.9	368.9	371.9	372.9	369.9	366.9	365.9	364.9	354.8
50°	328.8	327.8	326.8	321.8	324.8	325.8	321.8	319.8	315.8	310.8	298.6
52.5°	288.6	287.6	286.6	281.6	283.6	284.6	280.6	276.6	271.6	267.6	252.6
55°	254.6	253.6	253.6	250.5	248.5	250.5	246.5	243.5	236.5	231.5	216.5
57.5°	225.5	225.5	223.5	220.5	221.5	221.5	217.5	213.5	207.5	201.5	189.4
60°	200.5	200.5	200.5	197.5	197.5	197.5	195.4	191.4	186.4	180.4	168.4
62.5°	180.4	180.4	179.4	176.4	177.4	177.4	175.4	171.4	166.4	162.4	150.4
65°	164.4	164.4	164.4	161.4	161.4	162.4	160.4	156.4	152.4	147.4	136.2
67.5°	144.4	143.4	143.4	141.4	142.4	143.4	141.4	138.2	133.2	130.2	120.2
70°	119.2	120.2	121.2	118.2	119.2	119.2	118.2	115.2	112.2	109.2	100.2
72.5°	97.2	97.2	96.2	95.2	95.2	96.2	94.2	91.2	89.2	87.2	80.1
75°	74.1	73.1	74.1	72.1	72.1	72.1	70.1	69.1	68.1	65.1	60.1
77.5°	54.1	53.1	53.1	51.1	52.1	52.1	51.1	49.1	47.1	46.1	42.1
80°	37.1	37.1	37.1	36.1	36.1	35.1	35.1	34.1	32.1	31.1	29.1
82.5°	25.0	25.0	25.0	24.0	24.0	24.0	23.0	22.0	21.0	20.0	18.0
85°	16.0	16.0	16.0	15.0	15.0	15.0	14.0	14.0	13.0	12.0	10.0
87.5°	9.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0	7.0	6.0	5.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1044.4	1030.2	1039.4	1039.4	1036.4	1044.4	1049.4	1053.4	1052.4	1043.4	1042.4
5°	1036.4	1024.2	1034.2	1035.2	1032.2	1043.4	1050.4	1055.4	1056.4	1048.4	1049.4
7.5°	1030.2	1020.2	1033.2	1037.4	1036.4	1046.4	1054.4	1062.4	1066.4	1060.4	1061.4
10°	1027.2	1019.2	1033.2	1039.4	1040.4	1051.4	1063.4	1074.4	1079.4	1075.4	1078.4
12.5°	1023.2	1018.2	1034.2	1043.4	1047.4	1058.4	1073.4	1086.4	1094.5	1092.5	1098.5
15°	1019.2	1015.2	1034.2	1047.4	1052.4	1062.4	1079.4	1098.5	1107.5	1106.5	1114.5
17.5°	1009.2	1008.2	1028.2	1042.4	1049.4	1061.4	1077.4	1100.5	1109.5	1111.5	1121.5
20°	993.2	993.2	1015.2	1030.2	1038.4	1049.4	1069.4	1091.4	1102.5	1104.5	1115.5
22.5°	971.1	973.1	994.2	1009.2	1021.2	1029.2	1050.4	1073.4	1083.4	1086.4	1098.5
25°	942.1	944.1	964.1	979.1	992.2	1001.2	1021.2	1042.4	1054.4	1057.4	1066.4
27.5°	904.0	908.0	927.1	942.1	953.1	959.1	980.2	1002.2	1011.2	1014.2	1023.2
30°	859.9	860.9	880.0	893.0	904.0	909.0	927.1	950.1	957.1	960.1	973.1
32.5°	805.8	804.8	822.9	834.9	843.9	849.9	869.0	884.0	891.0	896.0	903.0
35°	740.6	739.6	752.6	766.8	773.8	775.8	794.8	810.8	814.9	818.9	827.9
37.5°	667.5	667.5	678.5	685.5	693.5	696.5	705.6	723.6	730.6	729.6	736.6
40°	590.4	586.2	594.4	601.4	603.4	604.4	613.4	627.4	632.4	632.4	637.4
42.5°	509.1	503.1	504.1	508.1	510.1	503.1	509.1	518.1	515.1	519.1	520.1
45°	423.0	413.9	409.9	400.9	402.9	395.9	391.9	393.9	392.9	382.9	384.9
47.5°	352.8	336.8	329.8	316.8	313.8	305.6	300.6	291.6	283.6	283.6	278.6
50°	293.6	277.6	263.6	248.5	243.5	236.5	225.5	213.5	207.5	201.5	196.5
52.5°	246.5	229.5	212.5	196.5	189.4	180.4	165.4	153.4	142.4	136.2	130.2
55°	208.5	189.4	171.4	154.4	145.4	136.2	121.2	107.2	94.2	86.2	81.1
57.5°	179.4	161.4	142.4	124.2	116.2	106.2	90.2	75.1	63.1	54.1	49.1
60°	158.4	140.4	123.2	104.2	96.2	86.2	69.1	55.1	43.1	35.1	29.1
62.5°	140.4	124.2	106.2	89.2	81.1	71.1	55.1	41.1	30.1	22.0	17.0
65°	127.2	111.2	96.2	79.1	72.1	62.1	47.1	34.1	24.0	17.0	12.0
67.5°	112.2	98.2	83.1	69.1	62.1	54.1	40.1	29.1	20.0	14.0	10.0
70°	94.2	83.1	70.1	57.1	52.1	45.1	33.1	24.0	16.0	11.0	8.0
72.5°	75.1	66.1	56.1	46.1	42.1	35.1	27.0	19.0	12.0	8.0	6.0
75°	57.1	50.1	42.1	35.1	31.1	27.0	20.0	14.0	9.0	6.0	4.0
77.5°	39.1	36.1	30.1	24.0	22.0	19.0	13.0	9.0	6.0	4.0	2.0
80°	27.0	24.0	20.0	16.0	14.0	12.0	8.0	6.0	3.0	2.0	1.0
82.5°	17.0	14.0	12.0	10.0	9.0	7.0	5.0	3.0	2.0	1.0	1.0
85°	9.0	8.0	7.0	5.0	5.0	4.0	3.0	2.0	1.0	0.0	0.0
87.5°	5.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1054.4	1054.4	1053.4	1065.4	1051.4	1065.4	1058.4	1065.4	1055.4	1054.4	1055.4
5°	1062.4	1065.4	1066.4	1077.4	1064.4	1081.4	1075.4	1081.4	1074.4	1076.4	1079.4
7.5°	1078.4	1083.4	1082.4	1096.5	1083.4	1102.5	1098.5	1107.5	1100.5	1102.5	1106.5
10°	1096.5	1102.5	1103.5	1117.5	1105.5	1128.5	1123.5	1133.5	1127.5	1130.5	1135.5
12.5°	1117.5	1124.5	1125.5	1141.5	1128.5	1152.6	1149.6	1159.6	1154.6	1157.6	1163.6
15°	1133.5	1143.5	1145.5	1161.6	1147.5	1172.6	1170.6	1183.6	1175.6	1180.6	1185.6
17.5°	1141.5	1150.6	1154.6	1169.6	1157.6	1182.6	1180.6	1191.6	1185.6	1190.6	1196.6
20°	1136.5	1147.5	1150.6	1165.6	1153.6	1178.6	1175.6	1186.6	1180.6	1184.6	1190.6
22.5°	1118.5	1129.5	1133.5	1147.5	1136.5	1159.6	1158.6	1168.6	1160.6	1165.6	1170.6
25°	1086.4	1098.5	1100.5	1113.5	1101.5	1125.5	1123.5	1134.5	1128.5	1131.5	1138.5
27.5°	1040.4	1054.4	1057.4	1068.4	1059.4	1079.4	1079.4	1088.4	1081.4	1081.4	1088.4
30°	985.2	999.2	1001.2	1010.2	1002.2	1020.2	1021.2	1030.2	1019.2	1025.2	1026.2
32.5°	918.0	927.1	933.1	941.1	929.1	952.1	949.1	956.1	950.1	950.1	955.1
35°	836.9	847.9	850.9	860.9	850.9	869.0	869.0	873.0	866.9	866.9	875.0
37.5°	748.6	756.8	757.8	767.8	759.8	774.8	773.8	776.8	770.8	774.8	774.8
40°	645.5	651.5	653.5	658.5	657.5	668.5	667.5	669.5	666.5	667.5	669.5
42.5°	525.1	533.2	537.2	541.2	535.2	550.2	547.2	550.2	549.2	550.2	553.2
45°	386.9	392.9	395.9	396.9	394.9	403.9	410.9	404.9	405.9	403.9	407.9
47.5°	279.6	280.6	278.6	284.6	279.6	283.6	285.6	286.6	280.6	279.6	283.6
50°	191.4	196.5	189.4	192.4	191.4	195.4	193.4	194.4	188.4	191.4	189.4
52.5°	127.2	126.2	124.2	125.2	123.2	123.2	123.2	125.2	121.2	119.2	117.2
55°	77.1	75.1	71.1	70.1	70.1	71.1	69.1	67.1	67.1	66.1	66.1
57.5°	45.1	42.1	40.1	39.1	37.1	36.1	35.1	35.1	33.1	33.1	33.1
60°	25.0	22.0	20.0	18.0	18.0	17.0	16.0	15.0	15.0	15.0	14.0
62.5°	13.0	11.0	9.0	8.0	8.0	7.0	6.0	6.0	6.0	6.0	5.0
65°	9.0	7.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	7.0	6.0	5.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0
70°	6.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	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: P252147

CATALOG NUMBER: LE_6B15D010 EC6B10209027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1064.4	1063.4	1064.4	1066.4	1062.4	1074.4	1068.4	1074.4
5°	1087.4	1088.4	1089.4	1092.5	1087.4	1102.5	1094.5	1103.5
7.5°	1117.5	1118.5	1119.5	1122.5	1119.5	1134.5	1125.5	1133.5
10°	1148.6	1150.6	1150.6	1155.6	1152.6	1166.6	1160.6	1170.6
12.5°	1177.6	1179.6	1181.6	1184.6	1182.6	1197.6	1192.6	1200.6
15°	1200.6	1204.8	1205.8	1209.8	1207.8	1223.8	1217.8	1225.8
17.5°	1211.8	1215.8	1215.8	1220.8	1218.8	1235.8	1227.8	1236.8
20°	1205.8	1208.8	1209.8	1214.8	1212.8	1229.8	1221.8	1232.8
22.5°	1186.6	1187.6	1188.6	1193.6	1192.6	1207.8	1200.6	1207.8
25°	1151.6	1154.6	1153.6	1157.6	1157.6	1169.6	1161.6	1167.6
27.5°	1101.5	1104.5	1104.5	1109.5	1105.5	1117.5	1109.5	1118.5
30°	1040.4	1043.4	1041.4	1045.4	1041.4	1053.4	1047.4	1050.4
32.5°	967.1	967.1	968.1	969.1	967.1	978.1	972.1	978.1
35°	880.0	882.0	883.0	884.0	882.0	890.0	883.0	887.0
37.5°	781.8	786.8	785.8	786.8	783.8	793.8	787.8	789.8
40°	676.5	676.5	675.5	677.5	674.5	682.5	678.5	680.5
42.5°	554.2	557.2	553.2	558.2	550.2	561.2	557.2	554.2
45°	415.9	411.9	410.9	411.9	408.9	409.9	412.9	410.9
47.5°	283.6	283.6	281.6	278.6	282.6	283.6	279.6	279.6
50°	190.4	190.4	188.4	187.4	189.4	188.4	186.4	189.4
52.5°	121.2	117.2	117.2	119.2	117.2	115.2	118.2	116.2
55°	66.1	64.1	64.1	66.1	64.1	64.1	63.1	65.1
57.5°	32.1	33.1	32.1	32.1	32.1	32.1	31.1	32.1
60°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
62.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
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)