

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: P252372

Luminaire Tested: **LE_6B20D010 EC6B10209050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252372
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_6B20D010 EC6B10209050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2007.5 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

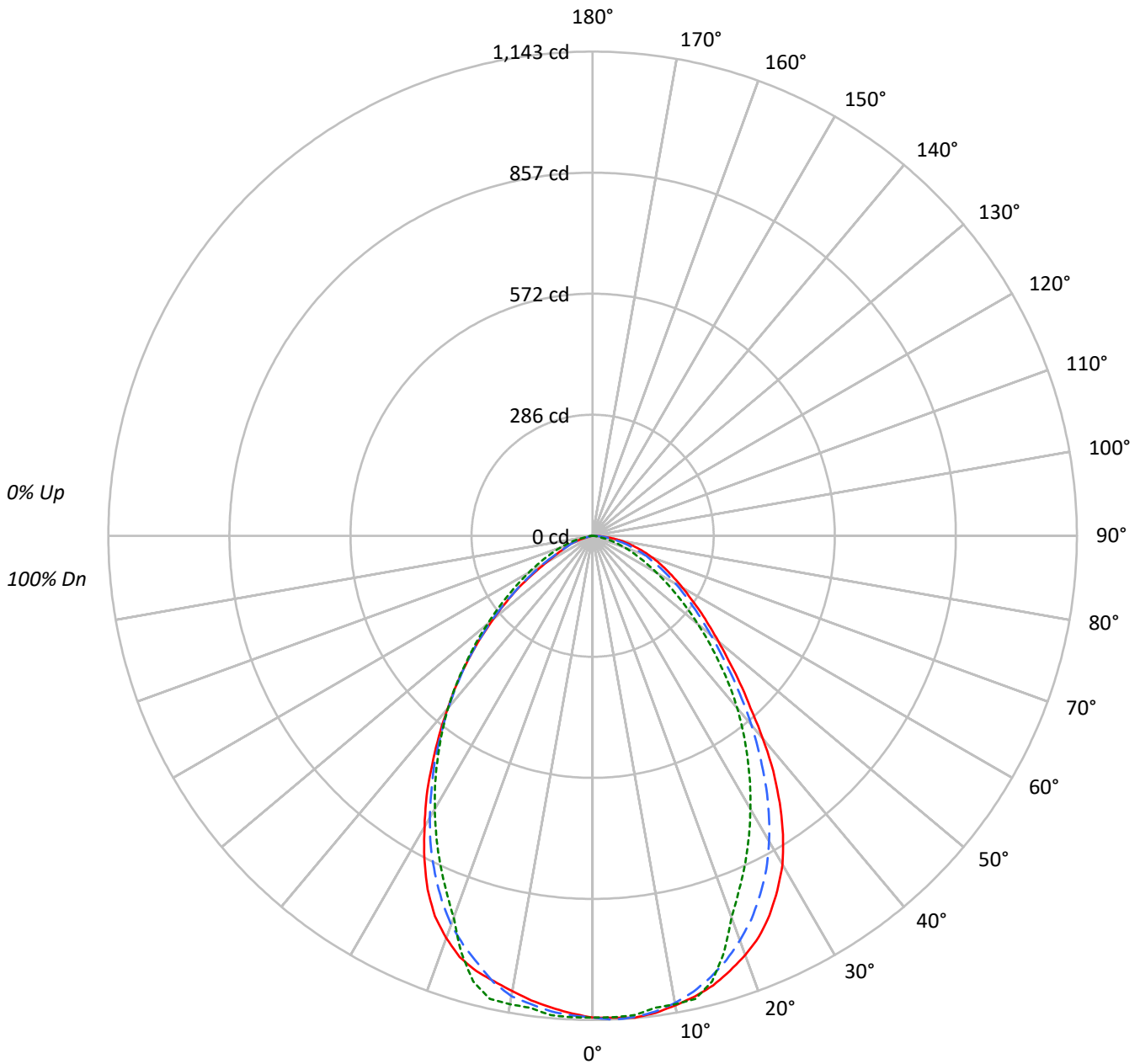
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	74211	74211	74211
5°	74783	74396	73231
10°	74568	74382	72315
15°	74229	73540	71838
20°	73121	66567	70150
25°	71136	61360	66356
30°	67544	56086	59754
35°	61294	50701	52597
40°	53220	45172	45291
45°	45385	38843	38437
50°	39279	32834	31038
55°	35124	27389	24023
60°	31994	22756	16193
65°	29871	18695	12072
70°	28460	15222	10129
75°	26820	10814	3327
80°	25548	5560	1127
85°	21034	3294	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	5.4
10°-20°	300.4	15.0
20°-30°	414.7	20.7
30°-40°	422.0	21.0
40°-50°	339.1	16.9
50°-60°	225.5	11.2
60°-70°	128.5	6.4
70°-80°	57.7	2.9
80°-90°	12.2	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°	822.5	41.0
0°-40°	1244.5	62.0
0°-60°	1809.1	90.1
0°-90°	2007.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1138	1138	1138	1138	1138	
5°	1142	1140	1136	1127	1118	108
15°	1099	1078	1089	1046	1064	309
25°	988	935	852	880	922	453
35°	770	710	637	648	660	478
45°	492	462	421	417	417	381
55°	309	288	241	214	211	277
65°	194	173	121	78	78	193
75°	106	89	43	18	13	114
85°	28	19	4	2	0	33
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°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5
2.5°	1139.0	1144.9	1143.4	1141.9	1143.4	1141.9	1139.0	1139.0	1136.0	1136.0	1143.4
5°	1141.9	1144.9	1143.4	1141.9	1141.9	1143.4	1137.5	1137.5	1134.5	1133.0	1140.4
7.5°	1136.0	1140.4	1137.5	1137.5	1136.0	1137.5	1131.5	1131.5	1127.1	1125.6	1133.0
10°	1125.6	1131.5	1128.6	1128.6	1128.6	1125.6	1122.8	1121.2	1116.8	1115.2	1119.8
12.5°	1113.9	1118.2	1116.8	1113.9	1113.9	1113.9	1107.9	1106.5	1100.5	1097.6	1102.0
15°	1099.0	1102.0	1100.5	1099.0	1096.1	1096.1	1090.2	1087.2	1081.4	1075.4	1078.4
17.5°	1076.9	1081.4	1078.4	1076.9	1072.5	1072.5	1066.5	1063.6	1054.8	1048.9	1050.2
20°	1053.2	1054.8	1053.2	1050.2	1045.9	1044.4	1038.5	1032.6	1025.2	1017.8	1016.4
22.5°	1025.2	1026.6	1022.2	1019.2	1014.9	1013.4	1006.0	1001.5	989.8	980.9	979.4
25°	988.2	989.8	989.8	982.4	979.4	976.5	969.0	961.6	951.4	939.5	935.1
27.5°	944.0	948.4	945.4	938.0	932.1	930.6	923.2	917.4	904.1	893.8	887.9
30°	896.6	895.2	893.8	889.2	880.4	879.0	871.6	864.1	853.9	840.5	833.1
32.5°	836.1	836.1	834.6	830.2	821.4	818.4	812.5	803.6	791.8	781.5	774.1
35°	769.6	771.1	769.6	760.8	754.9	751.9	749.0	738.6	728.2	716.5	710.5
37.5°	700.2	695.8	697.2	689.9	682.5	685.4	676.6	672.1	660.4	651.5	645.5
40°	624.9	627.9	621.9	619.0	614.5	610.1	610.1	602.8	596.8	586.5	583.5
42.5°	551.0	555.5	554.0	551.0	545.1	546.6	539.2	536.2	528.9	524.4	520.0
45°	491.9	491.9	491.9	489.0	487.5	484.5	480.1	475.6	471.2	465.4	462.4
47.5°	434.2	434.2	435.8	432.9	429.9	428.4	425.5	425.5	418.0	412.1	409.2
50°	387.0	387.0	387.0	384.1	381.1	381.1	378.1	375.2	370.8	366.4	363.4
52.5°	344.2	344.2	344.2	341.2	339.8	338.2	336.8	335.4	329.4	326.5	323.5
55°	308.8	307.2	307.2	305.8	302.9	302.9	301.4	298.4	294.0	289.5	288.0
57.5°	273.2	274.8	273.2	273.2	270.4	270.4	267.4	265.9	261.5	258.5	255.5
60°	245.2	245.2	245.2	243.8	240.8	242.2	239.2	237.9	233.4	229.0	226.0
62.5°	217.1	218.6	218.6	217.1	214.2	214.2	212.8	211.2	206.8	202.4	198.0
65°	193.5	193.5	193.5	192.0	190.6	190.6	189.1	187.6	183.1	177.2	172.9
67.5°	171.4	169.9	169.9	169.9	168.4	166.9	165.5	164.0	159.5	155.1	149.2
70°	149.2	149.2	149.2	147.8	144.8	146.2	144.8	143.2	138.9	134.4	130.0
72.5°	128.5	128.5	127.0	125.6	125.6	124.1	124.1	122.6	118.1	112.2	107.9
75°	106.4	106.4	106.4	106.4	103.4	104.9	101.9	100.5	97.5	93.1	88.6
77.5°	87.1	87.1	87.1	85.6	84.2	84.2	82.8	81.2	76.9	73.9	68.0
80°	68.0	68.0	68.0	68.0	66.5	65.0	63.5	62.0	59.1	54.6	50.2
82.5°	50.2	50.2	48.8	48.8	48.8	47.2	45.8	44.4	41.4	38.4	35.5
85°	28.1	29.5	29.5	26.6	28.1	26.6	26.6	23.6	23.6	20.6	19.2
87.5°	10.4	8.9	8.9	8.9	8.9	8.9	8.9	7.4	7.4	7.4	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°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5
2.5°	1137.5	1136.0	1141.9	1141.9	1133.0	1137.5	1139.0	1136.0	1136.0	1137.5	1133.0
5°	1134.5	1131.5	1137.5	1139.0	1130.1	1134.5	1136.0	1133.0	1134.5	1136.0	1130.1
7.5°	1124.1	1124.1	1128.6	1130.1	1121.2	1125.6	1125.6	1122.8	1124.1	1124.1	1119.8
10°	1113.9	1109.4	1113.9	1113.9	1106.5	1107.9	1110.9	1109.4	1115.2	1122.8	1122.8
12.5°	1094.6	1090.2	1097.6	1097.6	1093.1	1099.0	1106.5	1110.9	1116.8	1119.8	1110.9
15°	1071.0	1072.5	1085.8	1096.1	1091.6	1100.5	1107.9	1105.0	1097.6	1088.8	1075.4
17.5°	1040.0	1035.5	1047.4	1053.2	1047.4	1050.2	1056.2	1050.2	1038.5	1031.1	1013.4
20°	1004.5	992.8	992.8	989.8	979.4	979.4	977.9	967.6	963.1	958.8	951.4
22.5°	964.6	951.4	946.9	938.0	929.1	927.8	923.2	912.9	907.0	904.1	895.2
25°	918.9	907.0	899.6	890.8	877.5	874.5	870.1	859.8	856.8	852.4	845.0
27.5°	871.6	856.8	846.5	837.6	825.8	824.2	815.4	808.0	802.1	799.1	793.2
30°	816.9	800.6	793.2	781.5	772.6	769.6	762.2	751.9	747.5	744.5	740.1
32.5°	756.4	743.0	735.6	725.4	713.5	715.0	706.1	697.2	694.2	691.4	686.9
35°	697.2	684.0	675.1	666.2	658.9	655.9	650.0	642.6	638.1	636.6	633.8
37.5°	632.2	621.9	614.5	605.6	599.8	596.8	593.9	586.5	583.5	583.5	577.6
40°	568.8	559.9	554.0	549.5	542.1	540.6	537.8	533.2	531.8	530.4	525.9
42.5°	511.1	499.2	494.9	491.9	487.5	484.5	483.0	480.1	478.6	477.1	472.8
45°	456.5	446.1	441.8	438.8	434.2	432.9	431.4	426.9	424.0	421.0	419.5
47.5°	403.2	395.9	394.4	387.0	384.1	381.1	378.1	375.2	373.8	372.2	366.4
50°	357.5	353.0	345.6	341.2	338.2	336.8	330.9	326.5	325.0	323.5	319.1
52.5°	316.1	310.2	305.8	298.4	296.9	294.0	291.0	285.1	282.1	280.6	276.2
55°	279.2	274.8	268.9	263.0	258.5	257.0	252.6	246.8	243.8	240.8	237.9
57.5°	248.1	240.8	234.9	229.0	226.0	221.6	217.1	214.2	209.8	205.4	200.9
60°	218.6	212.8	205.4	199.4	196.5	193.5	187.6	183.1	178.8	174.4	169.9
62.5°	190.6	184.6	177.2	171.4	168.4	165.5	159.5	155.1	150.6	146.2	140.4
65°	165.5	159.5	153.6	147.8	144.8	141.9	135.9	130.0	125.6	121.1	115.2
67.5°	144.8	137.4	131.5	125.6	122.6	119.6	113.8	109.4	103.4	99.0	93.1
70°	122.6	116.8	112.2	106.4	103.4	100.5	94.5	88.6	84.2	79.8	73.9
72.5°	103.4	96.0	91.6	85.6	82.8	81.2	75.4	70.9	66.5	60.6	56.1
75°	82.8	76.9	70.9	66.5	63.5	62.0	56.1	51.8	47.2	42.9	38.4
77.5°	63.5	59.1	53.1	48.8	45.8	44.4	38.4	34.0	29.5	26.6	22.1
80°	47.2	41.4	38.4	34.0	32.5	29.5	26.6	22.1	19.2	14.8	11.9
82.5°	32.5	28.1	25.1	22.1	20.6	19.2	16.2	13.2	10.4	8.9	7.4
85°	17.8	14.8	13.2	11.9	10.4	10.4	8.9	7.4	5.9	4.4	3.0
87.5°	5.9	4.4	4.4	4.4	4.4	3.0	3.0	3.0	1.5	1.5	1.5
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°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5
2.5°	1136.0	1136.0	1136.0	1134.5	1134.5	1134.5	1133.0	1139.0	1133.0	1131.5	1136.0
5°	1134.5	1131.5	1131.5	1131.5	1131.5	1130.1	1128.6	1131.5	1127.1	1125.6	1125.6
7.5°	1125.6	1124.1	1124.1	1122.8	1121.2	1119.8	1118.2	1119.8	1115.2	1113.9	1113.9
10°	1127.1	1124.1	1124.1	1119.8	1116.8	1112.4	1107.9	1109.4	1103.5	1099.0	1099.0
12.5°	1109.4	1102.0	1097.6	1093.1	1090.2	1088.8	1082.8	1085.8	1079.9	1078.4	1078.4
15°	1069.5	1060.6	1053.2	1050.2	1050.2	1047.4	1042.9	1048.9	1045.9	1047.4	1054.8
17.5°	1007.5	1003.0	998.6	997.1	998.6	1001.5	1004.5	1013.4	1013.4	1017.8	1025.2
20°	952.9	949.9	952.9	952.9	954.2	960.2	966.1	973.5	976.5	980.9	991.2
22.5°	899.6	899.6	902.6	907.0	905.5	915.9	917.4	930.6	930.6	939.5	948.4
25°	847.9	847.9	850.9	852.4	855.4	861.2	867.1	877.5	880.4	889.2	896.6
27.5°	797.8	796.2	796.2	797.8	800.6	808.0	811.0	822.9	827.2	833.1	840.5
30°	741.6	740.1	743.0	746.0	744.5	751.9	756.4	765.2	768.1	774.1	780.0
32.5°	688.4	688.4	688.4	691.4	691.4	697.2	697.2	707.6	707.6	712.0	717.9
35°	633.8	633.8	635.2	636.6	638.1	639.6	641.1	647.0	648.5	650.0	652.9
37.5°	582.0	580.5	582.0	582.0	579.1	585.0	585.0	590.9	586.5	590.9	592.4
40°	528.9	528.9	527.4	527.4	527.4	530.4	527.4	531.8	528.9	531.8	530.4
42.5°	474.2	474.2	471.2	474.2	472.8	472.8	472.8	475.6	471.2	474.2	475.6
45°	419.5	418.0	418.0	416.6	416.6	416.6	418.0	418.0	416.6	419.5	419.5
47.5°	366.4	364.9	364.9	364.9	364.9	366.4	361.9	364.9	361.9	361.9	361.9
50°	320.5	319.1	317.6	316.1	314.6	314.6	313.1	313.1	310.2	308.8	307.2
52.5°	276.2	274.8	271.8	271.8	270.4	268.9	264.4	264.4	260.0	258.5	258.5
55°	236.4	231.9	230.5	227.5	227.5	224.5	221.6	218.6	214.2	211.2	211.2
57.5°	199.4	195.0	192.0	190.6	189.1	186.1	180.2	178.8	172.9	171.4	169.9
60°	166.9	162.5	158.1	155.1	153.6	149.2	143.2	140.4	137.4	133.0	128.5
62.5°	135.9	131.5	125.6	124.1	121.1	116.8	112.2	107.9	104.9	100.5	97.5
65°	109.4	104.9	100.5	97.5	94.5	90.1	85.6	81.2	78.2	76.9	75.4
67.5°	88.6	82.8	78.2	76.9	73.9	70.9	66.5	65.0	62.0	62.0	62.0
70°	69.4	65.0	60.6	59.1	57.6	54.6	51.8	51.8	51.8	51.8	51.8
72.5°	51.8	48.8	44.4	42.9	41.4	39.9	36.9	38.4	36.9	36.9	36.9
75°	32.5	29.5	26.6	25.1	23.6	22.1	20.6	19.2	17.8	16.2	16.2
77.5°	17.8	14.8	13.2	11.9	11.9	10.4	8.9	8.9	7.4	7.4	7.4
80°	10.4	8.9	7.4	5.9	5.9	4.4	4.4	4.4	4.4	3.0	3.0
82.5°	5.9	4.4	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5
85°	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P252372

CATALOG NUMBER: LE_6B20D010 EC6B10209050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5
2.5°	1128.6	1133.0	1128.6	1133.0	1133.0	1133.0	1133.0	1128.6
5°	1121.2	1124.1	1119.8	1122.8	1124.1	1122.8	1122.8	1118.2
7.5°	1107.9	1110.9	1106.5	1110.9	1112.4	1110.9	1109.4	1106.5
10°	1094.6	1096.1	1091.6	1094.6	1097.6	1097.6	1096.1	1091.6
12.5°	1074.0	1078.4	1074.0	1076.9	1079.9	1081.4	1081.4	1076.9
15°	1050.2	1057.8	1054.8	1059.1	1063.6	1065.1	1065.1	1063.6
17.5°	1026.6	1034.0	1029.6	1037.0	1041.5	1044.4	1045.9	1042.9
20°	992.8	1001.5	998.6	1004.5	1010.4	1014.9	1014.9	1010.4
22.5°	948.4	960.2	958.8	963.1	970.5	972.0	975.0	972.0
25°	899.6	908.5	907.0	911.5	920.4	920.4	921.8	921.8
27.5°	843.5	852.4	850.9	853.9	859.8	861.2	862.8	859.8
30°	782.9	787.4	787.4	791.8	796.2	797.8	797.8	793.2
32.5°	716.5	722.4	725.4	723.9	728.2	731.2	729.8	729.8
35°	655.9	657.4	658.9	660.4	661.8	664.8	661.8	660.4
37.5°	590.9	595.4	592.4	595.4	598.2	596.8	595.4	595.4
40°	531.8	533.2	530.4	533.2	534.8	534.8	534.8	531.8
42.5°	472.8	475.6	472.8	475.6	475.6	475.6	475.6	474.2
45°	413.6	416.6	416.6	418.0	418.0	416.6	416.6	416.6
47.5°	359.0	361.9	359.0	361.9	363.4	360.5	360.5	360.5
50°	307.2	305.8	305.8	307.2	307.2	307.2	307.2	305.8
52.5°	254.1	255.5	255.5	255.5	257.0	255.5	257.0	257.0
55°	208.2	208.2	208.2	209.8	208.2	208.2	209.8	211.2
57.5°	166.9	165.5	164.0	164.0	165.5	164.0	164.0	164.0
60°	128.5	127.0	125.6	125.6	125.6	125.6	125.6	124.1
62.5°	96.0	96.0	96.0	97.5	97.5	97.5	97.5	99.0
65°	76.9	76.9	76.9	76.9	76.9	76.9	76.9	78.2
67.5°	62.0	62.0	62.0	63.5	63.5	63.5	63.5	63.5
70°	51.8	51.8	53.1	51.8	53.1	53.1	53.1	53.1
72.5°	35.5	35.5	35.5	35.5	35.5	34.0	35.5	34.0
75°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	13.2
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	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)