

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: io LED

Report Number: P252382

Luminaire Tested: **LD6B30D010 EU6B30509030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252382
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: io LED
Catalog Number: LD6B30D010 EU6B30509030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

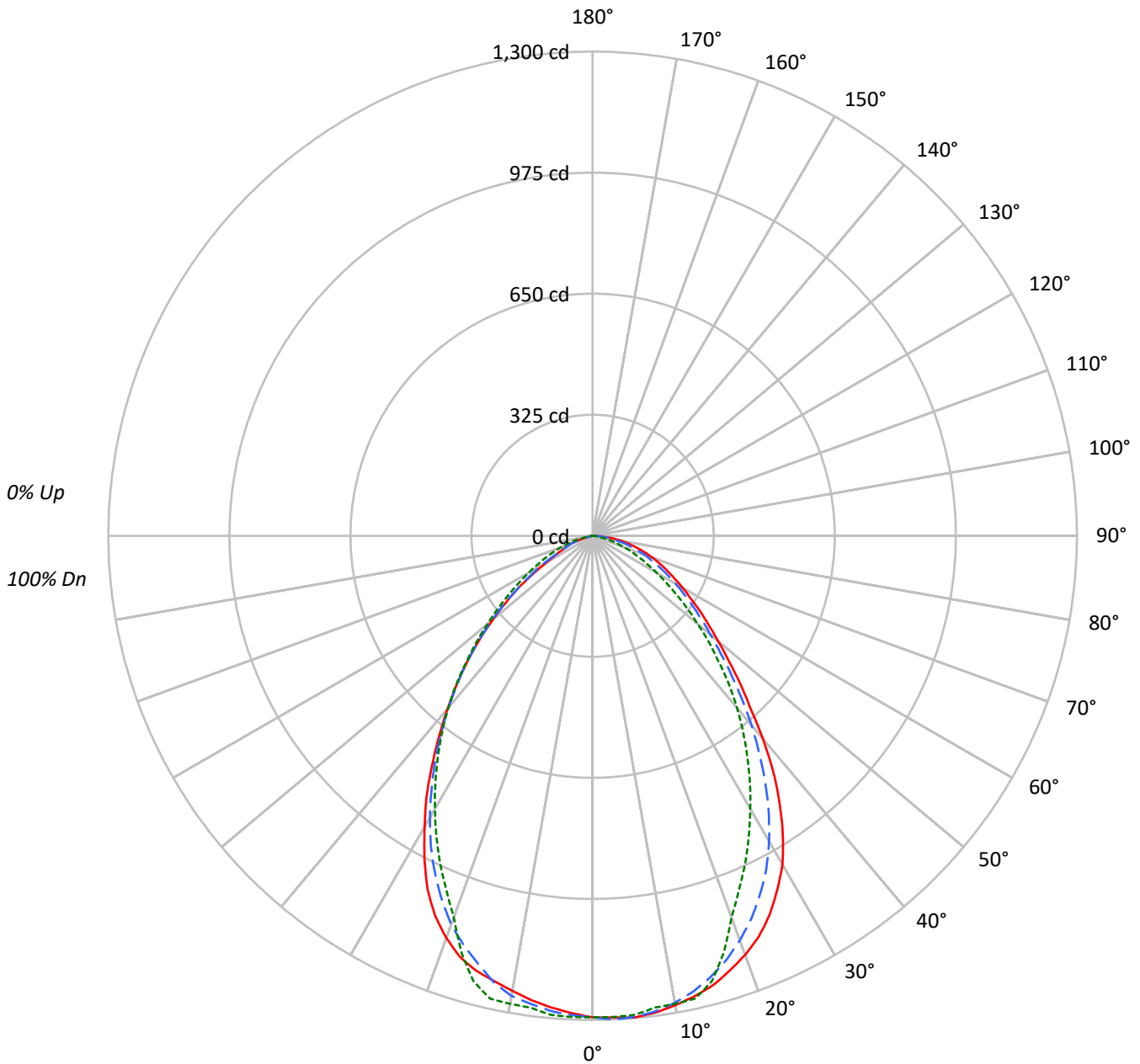
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	84356	84356	84356
5°	85006	84567	83251
10°	84770	84545	82206
15°	84380	83590	81658
20°	83126	75662	79745
25°	80868	69746	75426
30°	76787	63755	67928
35°	69681	57638	59781
40°	60493	51338	51483
45°	51594	44158	43687
50°	44658	37320	35280
55°	39924	31132	27310
60°	36378	25848	18411
65°	33962	21257	13739
70°	32351	17301	11540
75°	30475	12276	3806
80°	29004	6312	1277
85°	23879	3743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	5.4
10°-20°	341.5	15.0
20°-30°	471.4	20.7
30°-40°	479.7	21.0
40°-50°	385.5	16.9
50°-60°	256.3	11.2
60°-70°	146.1	6.4
70°-80°	65.6	2.9
80°-90°	13.8	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°	935.0	41.0
0°-40°	1414.7	62.0
0°-60°	2056.5	90.1
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1293	1293	1293	1293	1293	
5°	1298	1296	1291	1281	1271	123
15°	1249	1226	1238	1189	1209	352
25°	1123	1063	969	1001	1048	515
35°	875	808	724	737	751	544
45°	559	526	479	474	474	434
55°	351	327	274	244	240	315
65°	220	196	138	89	89	219
75°	121	101	49	20	15	129
85°	32	22	5	2	0	38
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°	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0
2.5°	1294.7	1301.4	1299.7	1298.0	1299.7	1298.0	1294.7	1294.7	1291.3	1291.3	1299.7
5°	1298.0	1301.4	1299.7	1298.0	1298.0	1299.7	1293.0	1293.0	1289.6	1288.0	1296.4
7.5°	1291.3	1296.4	1293.0	1293.0	1291.3	1293.0	1286.3	1286.3	1281.2	1279.6	1288.0
10°	1279.6	1286.3	1282.9	1282.9	1282.9	1279.6	1276.2	1274.5	1269.5	1267.8	1272.8
12.5°	1266.1	1271.2	1269.5	1266.1	1266.1	1266.1	1259.4	1257.7	1251.0	1247.7	1252.7
15°	1249.3	1252.7	1251.0	1249.3	1246.0	1246.0	1239.3	1235.9	1229.2	1222.5	1225.8
17.5°	1224.2	1229.2	1225.8	1224.2	1219.1	1219.1	1212.4	1209.0	1199.0	1192.2	1193.9
20°	1197.3	1199.0	1197.3	1193.9	1188.9	1187.2	1180.5	1173.8	1165.4	1157.0	1155.3
22.5°	1165.4	1167.1	1162.0	1158.7	1153.6	1151.9	1143.5	1138.5	1125.1	1115.0	1113.3
25°	1123.4	1125.1	1125.1	1116.7	1113.3	1110.0	1101.6	1093.2	1081.4	1068.0	1062.9
27.5°	1073.0	1078.1	1074.7	1066.3	1059.6	1057.9	1049.5	1042.8	1027.7	1015.9	1009.2
30°	1019.3	1017.6	1015.9	1010.9	1000.8	999.1	990.7	982.3	970.6	955.5	947.1
32.5°	950.4	950.4	948.8	943.7	933.6	930.3	923.6	913.5	900.1	888.3	879.9
35°	874.9	876.6	874.9	864.8	858.1	854.7	851.4	839.6	827.9	814.4	807.7
37.5°	796.0	790.9	792.6	784.2	775.8	779.2	769.1	764.0	750.6	740.5	733.8
40°	710.3	713.7	707.0	703.6	698.6	693.5	693.5	685.1	678.4	666.7	663.3
42.5°	626.3	631.4	629.7	626.3	619.6	621.3	612.9	609.6	601.2	596.1	591.1
45°	559.2	559.2	559.2	555.8	554.1	550.8	545.7	540.7	535.7	529.0	525.6
47.5°	493.7	493.7	495.4	492.0	488.7	487.0	483.6	483.6	475.2	468.5	465.1
50°	440.0	440.0	440.0	436.6	433.2	433.2	429.9	426.5	421.5	416.4	413.1
52.5°	391.3	391.3	391.3	387.9	386.2	384.5	382.9	381.2	374.5	371.1	367.7
55°	351.0	349.3	349.3	347.6	344.2	344.2	342.6	339.2	334.2	329.1	327.4
57.5°	310.7	312.3	310.7	310.7	307.3	307.3	303.9	302.3	297.2	293.9	290.5
60°	278.8	278.8	278.8	277.1	273.7	275.4	272.0	270.4	265.3	260.3	256.9
62.5°	246.8	248.5	248.5	246.8	243.5	243.5	241.8	240.1	235.1	230.1	225.0
65°	220.0	220.0	220.0	218.3	216.6	216.6	214.9	213.3	208.2	201.5	196.5
67.5°	194.8	193.1	193.1	193.1	191.4	189.8	188.1	186.4	181.4	176.3	169.6
70°	169.6	169.6	169.6	167.9	164.6	166.2	164.6	162.9	157.8	152.8	147.8
72.5°	146.1	146.1	144.4	142.7	142.7	141.1	141.1	139.4	134.3	127.6	122.6
75°	120.9	120.9	120.9	120.9	117.5	119.2	115.9	114.2	110.8	105.8	100.8
77.5°	99.1	99.1	99.1	97.4	95.7	95.7	94.0	92.4	87.3	84.0	77.2
80°	77.2	77.2	77.2	77.2	75.6	73.9	72.2	70.5	67.2	62.1	57.1
82.5°	57.1	57.1	55.4	55.4	55.4	53.7	52.1	50.4	47.0	43.7	40.3
85°	31.9	33.6	33.6	30.2	31.9	30.2	30.2	26.9	26.9	23.5	21.8
87.5°	11.8	10.1	10.1	10.1	10.1	10.1	10.1	8.4	8.4	8.4	6.7
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°	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0
2.5°	1293.0	1291.3	1298.0	1298.0	1288.0	1293.0	1294.7	1291.3	1291.3	1293.0	1288.0
5°	1289.6	1286.3	1293.0	1294.7	1284.6	1289.6	1291.3	1288.0	1289.6	1291.3	1284.6
7.5°	1277.9	1277.9	1282.9	1284.6	1274.5	1279.6	1279.6	1276.2	1277.9	1277.9	1272.8
10°	1266.1	1261.1	1266.1	1266.1	1257.7	1259.4	1262.8	1261.1	1267.8	1276.2	1276.2
12.5°	1244.3	1239.3	1247.7	1247.7	1242.6	1249.3	1257.7	1262.8	1269.5	1272.8	1262.8
15°	1217.4	1219.1	1234.2	1246.0	1240.9	1251.0	1259.4	1256.1	1247.7	1237.6	1222.5
17.5°	1182.2	1177.1	1190.6	1197.3	1190.6	1193.9	1200.6	1193.9	1180.5	1172.1	1151.9
20°	1141.9	1128.4	1128.4	1125.1	1113.3	1113.3	1111.6	1099.9	1094.9	1089.8	1081.4
22.5°	1096.5	1081.4	1076.4	1066.3	1056.2	1054.6	1049.5	1037.8	1031.0	1027.7	1017.6
25°	1044.5	1031.0	1022.6	1012.6	997.5	994.1	989.1	977.3	973.9	968.9	960.5
27.5°	990.7	973.9	962.2	952.1	938.7	937.0	926.9	918.5	911.8	908.5	901.7
30°	928.6	910.1	901.7	888.3	878.2	874.9	866.5	854.7	849.7	846.3	841.3
32.5°	859.8	844.6	836.3	824.5	811.1	812.7	802.7	792.6	789.2	785.9	780.8
35°	792.6	777.5	767.4	757.3	748.9	745.6	738.9	730.5	725.4	723.7	720.4
37.5°	718.7	707.0	698.6	688.5	681.8	678.4	675.0	666.7	663.3	663.3	656.6
40°	646.5	636.4	629.7	624.7	616.3	614.6	611.2	606.2	604.5	602.8	597.8
42.5°	581.0	567.6	562.5	559.2	554.1	550.8	549.1	545.7	544.1	542.4	537.4
45°	518.9	507.1	502.1	498.7	493.7	492.0	490.3	485.3	481.9	478.6	476.9
47.5°	458.4	450.0	448.4	440.0	436.6	433.2	429.9	426.5	424.8	423.2	416.4
50°	406.4	401.3	392.9	387.9	384.5	382.9	376.1	371.1	369.4	367.7	362.7
52.5°	359.4	352.6	347.6	339.2	337.5	334.2	330.8	324.1	320.7	319.1	314.0
55°	317.4	312.3	305.6	298.9	293.9	292.2	287.1	280.4	277.1	273.7	270.4
57.5°	282.1	273.7	267.0	260.3	256.9	251.9	246.8	243.5	238.4	233.4	228.4
60°	248.5	241.8	233.4	226.7	223.3	220.0	213.3	208.2	203.2	198.1	193.1
62.5°	216.6	209.9	201.5	194.8	191.4	188.1	181.4	176.3	171.3	166.2	159.5
65°	188.1	181.4	174.6	167.9	164.6	161.2	154.5	147.8	142.7	137.7	131.0
67.5°	164.6	156.2	149.5	142.7	139.4	136.0	129.3	124.3	117.5	112.5	105.8
70°	139.4	132.7	127.6	120.9	117.5	114.2	107.5	100.8	95.7	90.7	84.0
72.5°	117.5	109.1	104.1	97.4	94.0	92.4	85.6	80.6	75.6	68.8	63.8
75°	94.0	87.3	80.6	75.6	72.2	70.5	63.8	58.8	53.7	48.7	43.7
77.5°	72.2	67.2	60.5	55.4	52.1	50.4	43.7	38.6	33.6	30.2	25.2
80°	53.7	47.0	43.7	38.6	36.9	33.6	30.2	25.2	21.8	16.8	13.4
82.5°	36.9	31.9	28.5	25.2	23.5	21.8	18.5	15.1	11.8	10.1	8.4
85°	20.2	16.8	15.1	13.4	11.8	11.8	10.1	8.4	6.7	5.0	3.4
87.5°	6.7	5.0	5.0	5.0	5.0	3.4	3.4	3.4	1.7	1.7	1.7
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°	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0
2.5°	1291.3	1291.3	1291.3	1289.6	1289.6	1289.6	1288.0	1294.7	1288.0	1286.3	1291.3
5°	1289.6	1286.3	1286.3	1286.3	1286.3	1284.6	1282.9	1286.3	1281.2	1279.6	1279.6
7.5°	1279.6	1277.9	1277.9	1276.2	1274.5	1272.8	1271.2	1272.8	1267.8	1266.1	1266.1
10°	1281.2	1277.9	1277.9	1272.8	1269.5	1264.5	1259.4	1261.1	1254.4	1249.3	1249.3
12.5°	1261.1	1252.7	1247.7	1242.6	1239.3	1237.6	1230.9	1234.2	1227.5	1225.8	1225.8
15°	1215.8	1205.7	1197.3	1193.9	1193.9	1190.6	1185.5	1192.2	1188.9	1190.6	1199.0
17.5°	1145.2	1140.2	1135.2	1133.5	1135.2	1138.5	1141.9	1151.9	1151.9	1157.0	1165.4
20°	1083.1	1079.7	1083.1	1083.1	1084.8	1091.5	1098.2	1106.6	1110.0	1115.0	1126.8
22.5°	1022.6	1022.6	1026.0	1031.0	1029.4	1041.1	1042.8	1057.9	1057.9	1068.0	1078.1
25°	963.9	963.9	967.2	968.9	972.3	979.0	985.7	997.5	1000.8	1010.9	1019.3
27.5°	906.8	905.1	905.1	906.8	910.1	918.5	921.9	935.3	940.4	947.1	955.5
30°	843.0	841.3	844.6	848.0	846.3	854.7	859.8	869.8	873.2	879.9	886.6
32.5°	782.5	782.5	782.5	785.9	785.9	792.6	792.6	804.3	804.3	809.4	816.1
35°	720.4	720.4	722.1	723.7	725.4	727.1	728.8	735.5	737.2	738.9	742.2
37.5°	661.6	659.9	661.6	661.6	658.3	665.0	665.0	671.7	666.7	671.7	673.4
40°	601.2	601.2	599.5	599.5	599.5	602.8	599.5	604.5	601.2	604.5	602.8
42.5°	539.0	539.0	535.7	539.0	537.4	537.4	537.4	540.7	535.7	539.0	540.7
45°	476.9	475.2	475.2	473.5	473.5	473.5	475.2	475.2	473.5	476.9	476.9
47.5°	416.4	414.8	414.8	414.8	414.8	416.4	411.4	414.8	411.4	411.4	411.4
50°	364.4	362.7	361.0	359.4	357.7	357.7	356.0	356.0	352.6	351.0	349.3
52.5°	314.0	312.3	309.0	309.0	307.3	305.6	300.6	300.6	295.5	293.9	293.9
55°	268.7	263.6	262.0	258.6	258.6	255.2	251.9	248.5	243.5	240.1	240.1
57.5°	226.7	221.7	218.3	216.6	214.9	211.6	204.9	203.2	196.5	194.8	193.1
60°	189.8	184.7	179.7	176.3	174.6	169.6	162.9	159.5	156.2	151.1	146.1
62.5°	154.5	149.5	142.7	141.1	137.7	132.7	127.6	122.6	119.2	114.2	110.8
65°	124.3	119.2	114.2	110.8	107.5	102.4	97.4	92.4	89.0	87.3	85.6
67.5°	100.8	94.0	89.0	87.3	84.0	80.6	75.6	73.9	70.5	70.5	70.5
70°	78.9	73.9	68.8	67.2	65.5	62.1	58.8	58.8	58.8	58.8	58.8
72.5°	58.8	55.4	50.4	48.7	47.0	45.3	42.0	43.7	42.0	42.0	42.0
75°	36.9	33.6	30.2	28.5	26.9	25.2	23.5	21.8	20.2	18.5	18.5
77.5°	20.2	16.8	15.1	13.4	13.4	11.8	10.1	10.1	8.4	8.4	8.4
80°	11.8	10.1	8.4	6.7	6.7	5.0	5.0	5.0	5.0	3.4	3.4
82.5°	6.7	5.0	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7
85°	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P252382

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0	1293.0
2.5°	1282.9	1288.0	1282.9	1288.0	1288.0	1288.0	1288.0	1282.9
5°	1274.5	1277.9	1272.8	1276.2	1277.9	1276.2	1276.2	1271.2
7.5°	1259.4	1262.8	1257.7	1262.8	1264.5	1262.8	1261.1	1257.7
10°	1244.3	1246.0	1240.9	1244.3	1247.7	1247.7	1246.0	1240.9
12.5°	1220.8	1225.8	1220.8	1224.2	1227.5	1229.2	1229.2	1224.2
15°	1193.9	1202.3	1199.0	1204.0	1209.0	1210.7	1210.7	1209.0
17.5°	1167.1	1175.5	1170.4	1178.8	1183.9	1187.2	1188.9	1185.5
20°	1128.4	1138.5	1135.2	1141.9	1148.6	1153.6	1153.6	1148.6
22.5°	1078.1	1091.5	1089.8	1094.9	1103.2	1104.9	1108.3	1104.9
25°	1022.6	1032.7	1031.0	1036.1	1046.2	1046.2	1047.8	1047.8
27.5°	958.8	968.9	967.2	970.6	977.3	979.0	980.7	977.3
30°	890.0	895.0	895.0	900.1	905.1	906.8	906.8	901.7
32.5°	814.4	821.1	824.5	822.8	827.9	831.2	829.5	829.5
35°	745.6	747.3	748.9	750.6	752.3	755.6	752.3	750.6
37.5°	671.7	676.7	673.4	676.7	680.1	678.4	676.7	676.7
40°	604.5	606.2	602.8	606.2	607.9	607.9	607.9	604.5
42.5°	537.4	540.7	537.4	540.7	540.7	540.7	540.7	539.0
45°	470.2	473.5	473.5	475.2	475.2	473.5	473.5	473.5
47.5°	408.1	411.4	408.1	411.4	413.1	409.7	409.7	409.7
50°	349.3	347.6	347.6	349.3	349.3	349.3	349.3	347.6
52.5°	288.8	290.5	290.5	290.5	292.2	290.5	292.2	292.2
55°	236.8	236.8	236.8	238.4	236.8	236.8	238.4	240.1
57.5°	189.8	188.1	186.4	186.4	188.1	186.4	186.4	186.4
60°	146.1	144.4	142.7	142.7	142.7	142.7	142.7	141.1
62.5°	109.1	109.1	109.1	110.8	110.8	110.8	110.8	112.5
65°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	89.0
67.5°	70.5	70.5	70.5	72.2	72.2	72.2	72.2	72.2
70°	58.8	58.8	60.5	58.8	60.5	60.5	60.5	60.5
72.5°	40.3	40.3	40.3	40.3	40.3	38.6	40.3	38.6
75°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	15.1
77.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	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)