

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: P252595

Luminaire Tested: **LD6B30D010 EU6B30509730 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509730 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

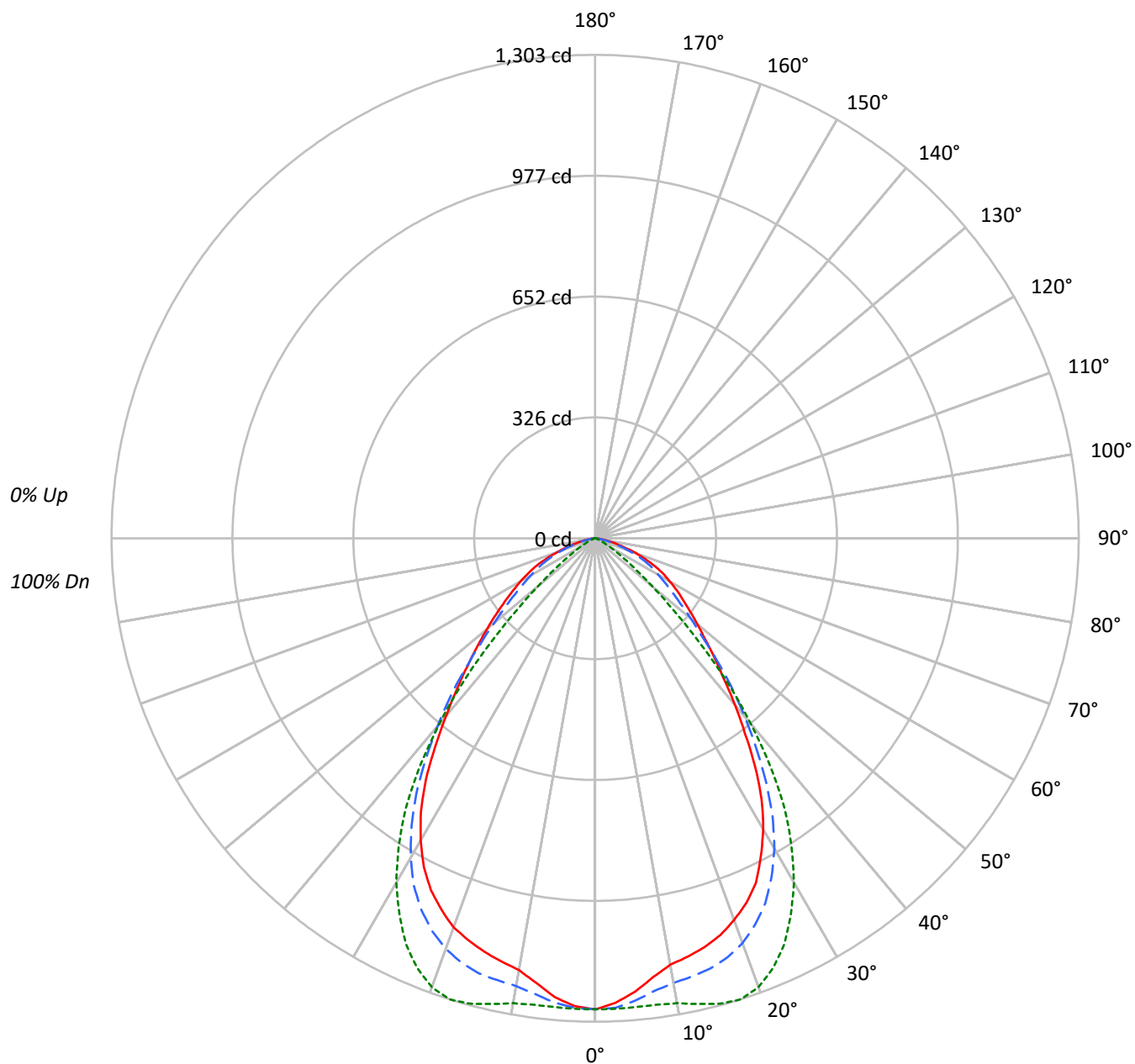
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82829	82829	82829
5°	80356	83048	81319
10°	77304	84299	78271
15°	77025	87730	77917
20°	76016	89367	77447
25°	73749	86850	75332
30°	68222	80712	70768
35°	59853	70955	63357
40°	49873	55622	53126
45°	41980	36703	44822
50°	36346	20106	38579
55°	32883	10681	33725
60°	30259	5559	30259
65°	27417	2949	26737
70°	22127	1679	20429
75°	15175	1109	14066
80°	9919	564	8829
85°	6587	1123	5464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	5.4
10°-20°	342.3	15.6
20°-30°	505.8	23.0
30°-40°	510.9	23.2
40°-50°	352.1	16.0
50°-60°	202.2	9.2
60°-70°	117.7	5.4
70°-80°	42.9	2.0
80°-90°	6.6	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°	966.5	44.0
0°-40°	1477.4	67.2
0°-60°	2031.8	92.4
0°-90°	2199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1270	1270	1270	1270	1270	
5°	1227	1250	1268	1256	1242	115
15°	1140	1201	1299	1214	1154	321
25°	1024	1085	1206	1107	1046	467
35°	752	803	891	840	796	466
45°	455	461	398	490	486	354
55°	289	254	94	264	296	260
65°	178	150	19	148	173	174
75°	60	48	4	47	56	68
85°	9	4	2	6	7	11
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°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1253.4	1254.9	1256.4	1254.9	1256.4	1262.3	1257.9	1260.8	1260.8	1262.3	1266.7
5°	1227.0	1227.0	1230.0	1228.5	1232.9	1238.8	1234.4	1238.8	1240.2	1243.2	1250.5
7.5°	1193.3	1193.3	1194.7	1194.7	1200.6	1206.5	1203.5	1209.4	1215.3	1221.2	1230.0
10°	1166.9	1169.8	1169.8	1171.3	1177.1	1184.5	1183.0	1190.3	1196.2	1205.0	1216.8
12.5°	1155.1	1156.6	1156.6	1159.5	1165.4	1172.7	1171.3	1178.6	1187.4	1197.7	1209.4
15°	1140.4	1143.4	1141.9	1144.8	1150.7	1158.0	1156.6	1163.9	1174.2	1184.5	1200.6
17.5°	1121.4	1122.8	1124.3	1124.3	1130.2	1136.0	1136.0	1143.4	1155.1	1166.9	1184.5
20°	1094.9	1097.9	1097.9	1099.3	1103.7	1112.5	1111.1	1118.4	1130.2	1141.9	1161.0
22.5°	1064.1	1065.6	1065.6	1067.0	1074.4	1078.8	1080.3	1086.1	1096.4	1109.6	1127.2
25°	1024.5	1025.9	1024.5	1028.9	1031.8	1040.6	1037.7	1045.0	1056.8	1067.0	1084.7
27.5°	967.2	970.2	970.2	971.6	979.0	986.3	986.3	993.7	1003.9	1011.3	1028.9
30°	905.6	910.0	905.6	912.9	915.9	921.7	926.1	930.5	939.4	949.6	965.8
32.5°	835.1	833.7	835.1	838.1	846.9	851.3	854.2	858.6	867.4	876.2	889.4
35°	751.5	754.4	755.9	761.8	761.8	769.1	770.6	773.5	786.7	792.6	802.9
37.5°	663.4	666.4	667.8	670.8	676.6	679.6	684.0	688.4	697.2	707.4	713.3
40°	585.6	585.6	587.1	590.0	594.4	595.9	600.3	606.2	612.0	620.9	626.7
42.5°	512.2	513.7	512.2	515.2	519.6	525.4	524.0	531.3	532.8	538.7	543.1
45°	455.0	455.0	452.1	455.0	455.0	460.9	459.4	462.3	460.9	463.8	460.9
47.5°	400.7	402.2	400.7	402.2	402.2	402.2	403.6	400.7	402.2	397.8	389.0
50°	358.1	359.6	356.7	358.1	356.7	355.2	356.7	352.3	350.8	344.9	336.1
52.5°	321.4	320.0	318.5	318.5	318.5	317.0	315.6	311.2	306.8	300.9	290.6
55°	289.1	287.7	286.2	286.2	283.3	281.8	281.8	277.4	273.0	265.7	253.9
57.5°	259.8	258.3	256.9	256.9	255.4	252.5	252.5	248.0	242.2	233.4	223.1
60°	231.9	231.9	231.9	230.4	230.4	227.5	227.5	223.1	217.2	208.4	196.7
62.5°	207.0	205.5	205.5	205.5	205.5	204.0	202.5	199.6	193.7	184.9	174.7
65°	177.6	177.6	177.6	177.6	176.1	176.1	176.1	171.7	168.8	160.0	149.7
67.5°	145.3	145.3	145.3	145.3	143.8	145.3	145.3	142.4	139.4	130.6	121.8
70°	116.0	114.5	113.0	114.5	113.0	113.0	114.5	111.5	110.1	102.7	93.9
72.5°	85.1	86.6	85.1	85.1	85.1	83.7	85.1	83.7	80.7	74.9	69.0
75°	60.2	61.6	61.6	60.2	60.2	60.2	58.7	58.7	55.8	51.4	48.4
77.5°	41.1	41.1	41.1	41.1	39.6	39.6	39.6	38.2	36.7	33.8	30.8
80°	26.4	26.4	26.4	26.4	25.0	25.0	25.0	23.5	23.5	20.5	17.6
82.5°	16.1	16.1	16.1	16.1	16.1	16.1	14.7	14.7	13.2	11.7	10.3
85°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	7.3	7.3	5.9	4.4
87.5°	2.9	2.9	4.4	4.4	4.4	4.4	4.4	4.4	2.9	2.9	2.9
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°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1263.7	1265.2	1265.2	1265.2	1269.6	1271.1	1266.7	1262.3	1271.1	1269.6	1272.5
5°	1249.0	1253.4	1256.4	1257.9	1262.3	1265.2	1260.8	1259.3	1266.7	1268.1	1269.6
7.5°	1231.4	1238.8	1246.1	1249.0	1254.9	1257.9	1256.4	1256.4	1265.2	1268.1	1268.1
10°	1219.7	1230.0	1238.8	1246.1	1253.4	1257.9	1257.9	1259.3	1269.6	1272.5	1275.5
12.5°	1216.8	1230.0	1241.7	1252.0	1257.9	1265.2	1266.7	1271.1	1281.3	1285.7	1285.7
15°	1209.4	1227.0	1241.7	1254.9	1263.7	1272.5	1275.5	1284.3	1296.0	1298.9	1301.9
17.5°	1196.2	1213.8	1231.4	1247.6	1259.3	1266.7	1275.5	1284.3	1298.9	1303.4	1304.8
20°	1172.7	1193.3	1210.9	1227.0	1238.8	1249.0	1257.9	1268.1	1281.3	1287.2	1288.7
22.5°	1137.5	1158.0	1175.7	1193.3	1205.0	1213.8	1222.6	1234.4	1247.6	1253.4	1253.4
25°	1094.9	1114.0	1133.1	1146.3	1158.0	1168.3	1172.7	1185.9	1199.1	1206.5	1206.5
27.5°	1040.6	1058.2	1075.9	1090.5	1097.9	1106.7	1114.0	1125.8	1136.0	1141.9	1147.8
30°	971.6	989.3	1005.4	1020.1	1028.9	1037.7	1045.0	1053.8	1064.1	1071.4	1072.9
32.5°	896.8	911.5	927.6	942.3	951.1	954.0	961.4	970.2	979.0	984.9	986.3
35°	814.6	824.9	835.1	848.4	857.2	857.2	864.5	870.4	877.7	890.9	888.0
37.5°	717.7	732.4	739.7	744.1	750.0	755.9	757.4	764.7	773.5	776.4	780.8
40°	626.7	631.1	635.5	635.5	641.4	641.4	641.4	642.9	651.7	653.1	659.0
42.5°	535.7	535.7	531.3	526.9	528.4	526.9	519.6	519.6	524.0	529.9	529.9
45°	450.6	440.3	427.1	416.8	409.5	406.6	397.8	397.8	396.3	397.8	403.6
47.5°	378.7	361.1	339.0	318.5	311.2	305.3	292.1	286.2	283.3	284.7	287.7
50°	318.5	299.4	274.5	249.5	236.3	229.0	212.8	202.5	201.1	198.1	204.0
52.5°	274.5	251.0	224.6	195.2	182.0	170.3	152.6	143.8	138.0	138.0	139.4
55°	236.3	211.4	182.0	152.6	139.4	130.6	113.0	101.3	95.4	93.9	98.3
57.5°	204.0	180.5	151.2	121.8	108.6	98.3	80.7	70.5	66.0	63.1	64.6
60°	179.1	155.6	126.2	98.3	86.6	74.9	60.2	48.4	42.6	42.6	44.0
62.5°	155.6	133.6	107.1	80.7	70.5	60.2	44.0	33.8	29.4	27.9	29.4
65°	132.1	111.5	89.5	67.5	57.2	48.4	35.2	26.4	20.5	19.1	20.5
67.5°	107.1	91.0	71.9	54.3	45.5	38.2	26.4	19.1	14.7	13.2	14.7
70°	83.7	69.0	54.3	39.6	33.8	27.9	19.1	14.7	10.3	8.8	10.3
72.5°	60.2	49.9	38.2	27.9	23.5	19.1	13.2	10.3	7.3	5.9	7.3
75°	41.1	33.8	25.0	17.6	14.7	13.2	8.8	5.9	4.4	4.4	4.4
77.5°	26.4	20.5	16.1	11.7	8.8	7.3	4.4	2.9	2.9	2.9	2.9
80°	14.7	11.7	8.8	5.9	4.4	4.4	2.9	2.9	1.5	1.5	1.5
82.5°	8.8	5.9	4.4	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5
85°	4.4	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1266.7	1268.1	1263.7	1269.6	1265.2	1271.1	1271.1	1265.2	1266.7	1263.7	1269.6
5°	1263.7	1263.7	1260.8	1265.2	1259.3	1265.2	1263.7	1253.4	1256.4	1250.5	1256.4
7.5°	1263.7	1260.8	1256.4	1260.8	1253.4	1257.9	1252.0	1241.7	1238.8	1231.4	1231.4
10°	1268.1	1263.7	1257.9	1259.3	1252.0	1253.4	1244.6	1230.0	1225.6	1216.8	1213.8
12.5°	1278.4	1274.0	1265.2	1268.1	1257.9	1257.9	1246.1	1228.5	1219.7	1207.9	1205.0
15°	1293.1	1285.7	1275.5	1276.9	1266.7	1260.8	1246.1	1225.6	1213.8	1197.7	1193.3
17.5°	1296.0	1288.7	1275.5	1275.5	1262.3	1254.9	1237.3	1213.8	1199.1	1183.0	1174.2
20°	1279.9	1272.5	1257.9	1256.4	1244.6	1234.4	1215.3	1191.8	1177.1	1159.5	1152.2
22.5°	1246.1	1237.3	1224.1	1222.6	1210.9	1205.0	1184.5	1161.0	1146.3	1128.7	1122.8
25°	1196.2	1191.8	1178.6	1177.1	1166.9	1159.5	1141.9	1119.9	1106.7	1089.1	1083.2
27.5°	1137.5	1133.1	1119.9	1119.9	1108.1	1103.7	1087.6	1067.0	1056.8	1040.6	1033.3
30°	1067.0	1061.2	1053.8	1052.4	1042.1	1037.7	1023.0	1003.9	993.7	980.4	977.5
32.5°	983.4	979.0	974.6	973.1	962.8	958.4	948.2	929.1	920.3	908.5	904.1
35°	886.5	883.6	879.2	877.7	873.3	868.9	858.6	843.9	839.5	830.7	826.3
37.5°	775.0	777.9	775.0	775.0	770.6	772.0	763.2	754.4	750.0	744.1	741.2
40°	654.6	660.5	664.9	664.9	663.4	669.3	667.8	660.5	659.0	656.1	654.6
42.5°	532.8	535.7	544.5	550.4	548.9	563.6	565.1	570.9	575.4	572.4	573.9
45°	405.1	413.9	425.6	431.5	438.9	457.9	468.2	479.9	490.2	496.1	494.6
47.5°	292.1	302.4	315.6	324.4	337.6	361.1	387.5	402.2	416.8	424.2	431.5
50°	211.4	221.6	237.8	251.0	259.8	292.1	320.0	339.0	355.2	365.5	372.8
52.5°	148.2	160.0	177.6	189.3	202.5	233.4	265.7	287.7	305.3	318.5	325.8
55°	102.7	116.0	132.1	143.8	158.5	190.8	221.6	245.1	264.2	275.9	284.7
57.5°	71.9	83.7	99.8	110.1	124.8	155.6	186.4	209.9	229.0	240.7	251.0
60°	48.4	60.2	76.3	86.6	98.3	129.2	157.0	182.0	199.6	211.4	221.6
62.5°	33.8	44.0	60.2	70.5	80.7	107.1	133.6	155.6	173.2	186.4	195.2
65°	26.4	35.2	48.4	57.2	67.5	89.5	111.5	130.6	148.2	161.5	167.3
67.5°	19.1	27.9	38.2	45.5	52.8	71.9	91.0	105.7	121.8	132.1	139.4
70°	13.2	19.1	27.9	33.8	39.6	54.3	69.0	82.2	93.9	101.3	107.1
72.5°	10.3	13.2	19.1	23.5	27.9	38.2	49.9	60.2	69.0	74.9	80.7
75°	5.9	8.8	13.2	16.1	19.1	26.4	33.8	41.1	47.0	51.4	54.3
77.5°	2.9	4.4	7.3	8.8	11.7	16.1	22.0	26.4	30.8	33.8	36.7
80°	2.9	2.9	4.4	4.4	5.9	8.8	11.7	14.7	17.6	20.5	22.0
82.5°	1.5	1.5	2.9	2.9	2.9	4.4	5.9	8.8	10.3	11.7	13.2
85°	1.5	1.5	1.5	1.5	1.5	2.9	2.9	4.4	5.9	7.3	7.3
87.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	2.9	2.9	2.9	4.4
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: P252595

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1265.2	1268.1	1266.7	1269.6	1265.2	1263.7	1266.7	1262.3
5°	1249.0	1250.5	1249.0	1249.0	1246.1	1243.2	1246.1	1241.7
7.5°	1224.1	1224.1	1219.7	1219.7	1213.8	1210.9	1210.9	1209.4
10°	1203.5	1199.1	1194.7	1196.2	1187.4	1184.5	1183.0	1181.5
12.5°	1193.3	1190.3	1183.0	1183.0	1174.2	1171.3	1169.8	1168.3
15°	1181.5	1175.7	1169.8	1168.3	1161.0	1158.0	1156.6	1153.6
17.5°	1161.0	1156.6	1149.2	1149.2	1141.9	1140.4	1137.5	1136.0
20°	1139.0	1133.1	1127.2	1127.2	1118.4	1118.4	1114.0	1115.5
22.5°	1108.1	1103.7	1097.9	1097.9	1090.5	1089.1	1084.7	1083.2
25°	1071.4	1065.6	1061.2	1059.7	1053.8	1050.9	1049.4	1046.5
27.5°	1023.0	1018.6	1014.2	1011.3	1003.9	1002.5	998.1	999.5
30°	962.8	959.9	958.4	955.5	946.7	943.8	943.8	939.4
32.5°	896.8	892.4	889.4	885.0	877.7	876.2	871.8	873.3
35°	816.1	810.2	805.8	807.3	798.4	797.0	794.0	795.5
37.5°	732.4	726.5	720.7	719.2	711.9	711.9	707.4	707.4
40°	645.8	639.9	637.0	637.0	628.2	629.7	625.3	623.8
42.5°	568.0	562.1	560.7	559.2	554.8	553.3	548.9	550.4
45°	494.6	493.2	493.2	490.2	485.8	484.4	485.8	485.8
47.5°	430.0	431.5	430.0	430.0	427.1	430.0	427.1	428.6
50°	375.7	378.7	378.7	378.7	377.2	378.7	378.7	380.1
52.5°	330.2	334.6	333.2	334.6	333.2	336.1	334.6	336.1
55°	290.6	293.5	295.0	296.5	296.5	296.5	296.5	296.5
57.5°	253.9	258.3	259.8	261.3	261.3	264.2	261.3	261.3
60°	224.6	229.0	230.4	231.9	231.9	233.4	230.4	231.9
62.5°	198.1	202.5	202.5	204.0	204.0	204.0	201.1	202.5
65°	171.7	173.2	174.7	174.7	173.2	173.2	171.7	173.2
67.5°	142.4	143.8	142.4	142.4	140.9	140.9	138.0	139.4
70°	110.1	110.1	111.5	110.1	108.6	110.1	108.6	107.1
72.5°	82.2	82.2	82.2	80.7	80.7	79.3	80.7	80.7
75°	55.8	55.8	57.2	57.2	57.2	57.2	55.8	55.8
77.5°	36.7	36.7	36.7	36.7	38.2	36.7	36.7	36.7
80°	23.5	23.5	25.0	25.0	23.5	23.5	23.5	23.5
82.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
85°	8.8	8.8	8.8	8.8	7.3	7.3	7.3	7.3
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	2.9	2.9
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)