

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: P252487

Luminaire Tested: **LD6B30D010 EU6B30509035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2173.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

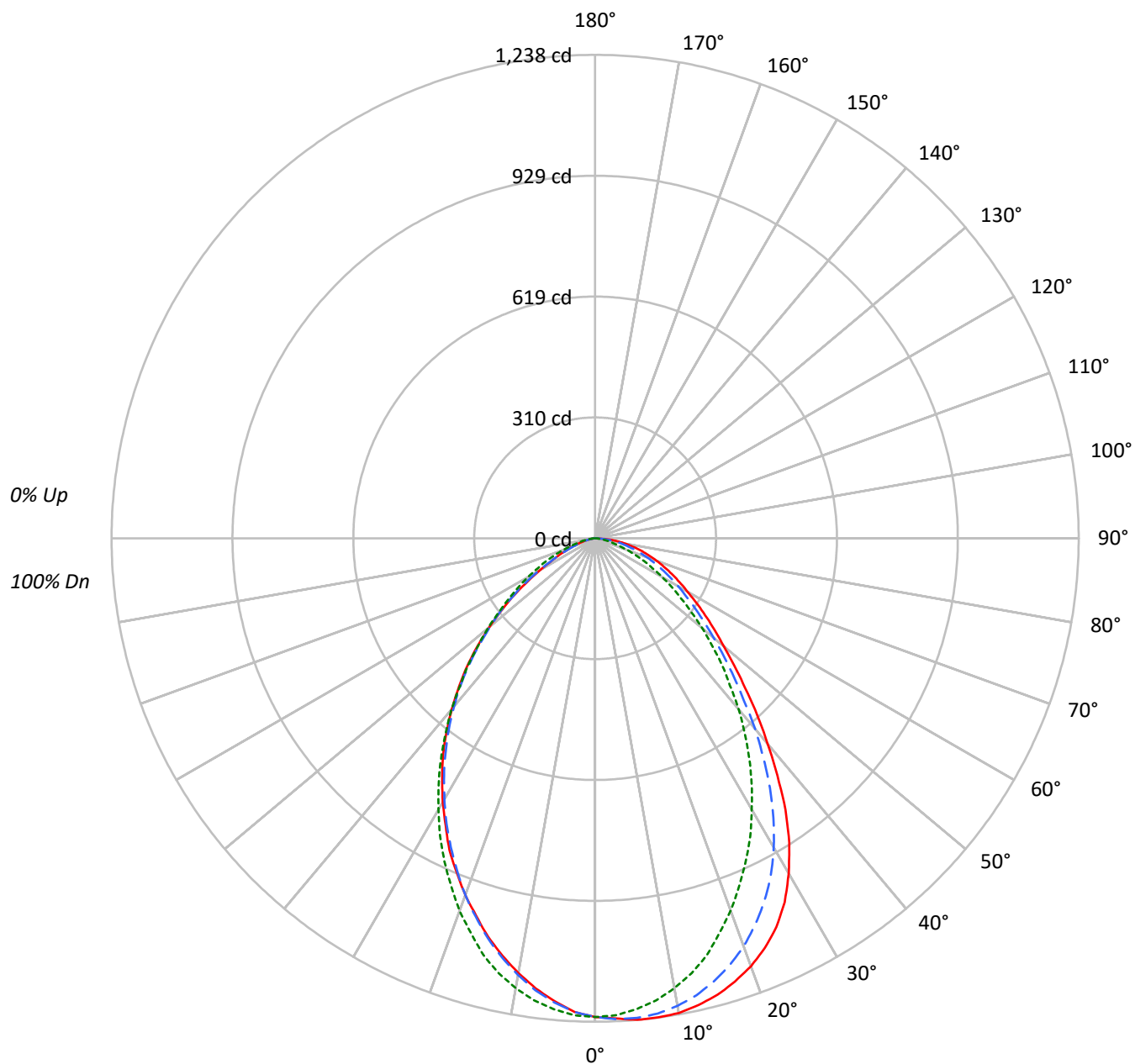
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252487

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252487

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1H

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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59		
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39		
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35		
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79978	79978	79978
5°	81063	79282	77939
10°	81775	77489	74892
15°	81766	74634	71412
20°	80973	70455	67498
25°	79054	65694	63491
30°	74648	60410	58745
35°	67666	54787	54102
40°	58441	48723	48578
45°	50109	42414	42728
50°	43552	36295	35767
55°	39116	30597	28663
60°	35543	25770	21099
65°	33375	21288	15514
70°	31836	16557	11369
75°	30475	12024	7713
80°	28779	8303	5110
85°	25526	5090	2545



TEST NUMBER: P252487

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	5.3
10°-20°	314.1	14.5
20°-30°	436.0	20.1
30°-40°	451.6	20.8
40°-50°	371.1	17.1
50°-60°	255.1	11.7
60°-70°	146.6	6.7
70°-80°	67.4	3.1
80°-90°	16.4	0.8
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°	864.7	39.8
0°-40°	1316.4	60.6
0°-60°	1942.5	89.4
0°-90°	2173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1226	1226	1226	1226	1226	
5°	1238	1233	1211	1194	1190	118
15°	1211	1175	1105	1061	1057	341
25°	1098	1025	913	873	882	503
35°	850	780	688	667	679	527
45°	543	502	460	455	463	423
55°	344	312	269	254	252	310
65°	216	189	138	97	100	215
75°	121	95	48	31	31	128
85°	34	24	7	3	3	38
90°	0	0	0	0	0	



TEST NUMBER: P252487

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1231.0	1241.2	1234.4	1232.7	1236.1	1236.1	1236.1	1231.0	1234.4	1229.3	1232.7
5°	1237.8	1246.3	1239.5	1236.1	1239.5	1241.2	1236.1	1232.7	1237.8	1231.0	1232.7
7.5°	1237.8	1246.3	1239.5	1237.8	1239.5	1239.5	1237.8	1231.0	1234.4	1227.6	1227.6
10°	1234.4	1241.2	1234.4	1231.0	1232.7	1231.0	1231.0	1222.5	1224.2	1215.7	1215.7
12.5°	1224.2	1232.7	1224.2	1220.8	1220.8	1220.8	1215.7	1208.9	1210.6	1200.4	1198.7
15°	1210.6	1217.4	1208.9	1205.5	1205.5	1203.8	1200.4	1190.1	1190.1	1179.9	1174.8
17.5°	1190.1	1196.9	1190.1	1185.0	1183.3	1179.9	1176.5	1166.3	1162.9	1151.0	1145.9
20°	1166.3	1171.4	1164.6	1159.5	1156.1	1152.7	1145.9	1135.7	1132.2	1120.3	1111.8
22.5°	1135.7	1142.5	1132.2	1127.1	1123.7	1118.6	1111.8	1101.6	1096.5	1081.2	1071.0
25°	1098.2	1101.6	1093.1	1088.0	1081.2	1077.8	1072.7	1059.0	1053.9	1036.9	1025.0
27.5°	1050.5	1053.9	1043.7	1040.3	1031.8	1028.4	1021.6	1009.7	1002.8	985.8	973.9
30°	990.9	994.3	987.5	982.4	975.6	968.8	963.7	951.8	941.6	924.5	914.3
32.5°	924.5	929.6	922.8	916.0	904.1	905.8	897.3	885.4	876.9	861.5	849.6
35°	849.6	853.0	844.5	842.8	836.0	829.2	820.7	812.2	807.0	790.0	779.8
37.5°	766.2	774.7	766.2	759.4	756.0	750.9	745.8	733.8	730.4	720.2	706.6
40°	686.2	691.3	686.2	679.3	674.2	674.2	667.4	660.6	652.1	641.9	636.8
42.5°	614.6	611.2	609.5	606.1	599.3	597.6	595.9	587.4	582.3	572.1	563.6
45°	543.1	544.8	541.4	539.7	534.6	531.2	527.8	521.0	519.3	509.1	502.3
47.5°	483.5	481.8	478.4	478.4	475.0	471.6	468.2	463.1	461.4	452.9	446.1
50°	429.1	430.8	429.1	427.4	422.3	420.5	417.1	413.7	410.3	401.8	395.0
52.5°	384.8	383.1	381.4	381.4	376.3	374.6	371.2	367.8	364.4	355.8	350.7
55°	343.9	343.9	342.2	340.5	335.4	333.7	332.0	328.6	323.5	316.7	311.6
57.5°	306.5	306.5	304.8	303.1	299.7	299.7	296.3	292.9	289.4	282.6	275.8
60°	272.4	274.1	272.4	270.7	267.3	267.3	265.6	260.5	258.8	250.3	245.2
62.5°	243.5	243.5	243.5	241.8	240.1	236.7	236.7	231.6	228.2	223.0	216.2
65°	216.2	216.2	216.2	214.5	211.1	209.4	207.7	204.3	200.9	195.8	189.0
67.5°	190.7	190.7	190.7	189.0	185.6	183.9	182.2	180.5	175.4	170.3	163.5
70°	166.9	166.9	165.2	163.5	161.7	160.0	158.3	154.9	151.5	144.7	139.6
72.5°	143.0	143.0	143.0	139.6	137.9	137.9	134.5	132.8	129.4	122.6	117.5
75°	120.9	119.2	119.2	117.5	115.8	114.1	112.4	110.7	105.6	102.2	95.3
77.5°	98.8	98.8	97.0	95.3	95.3	93.6	91.9	88.5	86.8	81.7	76.6
80°	76.6	76.6	76.6	76.6	74.9	73.2	73.2	69.8	68.1	63.0	59.6
82.5°	57.9	56.2	56.2	56.2	54.5	52.8	52.8	51.1	49.4	46.0	42.6
85°	34.1	32.3	32.3	32.3	30.6	30.6	28.9	28.9	27.2	23.8	23.8
87.5°	10.2	10.2	11.9	11.9	10.2	10.2	10.2	10.2	10.2	8.5	8.5
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: P252487

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1229.3	1234.4	1227.6	1225.9	1232.7	1229.3	1227.6	1224.2	1225.9	1222.5	1217.4
5°	1227.6	1234.4	1225.9	1220.8	1229.3	1224.2	1220.8	1217.4	1217.4	1210.6	1207.2
7.5°	1222.5	1225.9	1217.4	1212.3	1217.4	1212.3	1208.9	1203.8	1202.1	1193.5	1188.4
10°	1208.9	1212.3	1202.1	1195.2	1200.4	1193.5	1188.4	1183.3	1179.9	1169.7	1162.9
12.5°	1190.1	1191.8	1179.9	1171.4	1174.8	1169.7	1161.2	1154.4	1151.0	1140.8	1132.2
15°	1164.6	1166.3	1152.7	1140.8	1144.2	1137.4	1127.1	1120.3	1115.2	1105.0	1093.1
17.5°	1134.0	1132.2	1116.9	1105.0	1106.7	1098.2	1088.0	1077.8	1071.0	1059.0	1050.5
20°	1099.9	1094.8	1077.8	1064.1	1065.8	1055.6	1043.7	1033.5	1025.0	1014.8	1002.8
22.5°	1057.3	1050.5	1035.2	1018.2	1019.9	1011.4	994.3	985.8	977.3	963.7	953.5
25°	1011.4	1001.1	985.8	968.8	968.8	958.6	945.0	934.7	926.2	912.6	900.7
27.5°	956.9	951.8	931.3	917.7	916.0	905.8	893.9	882.0	871.7	859.8	847.9
30°	897.3	888.8	873.4	858.1	854.7	846.2	834.3	820.7	813.9	801.9	791.7
32.5°	834.3	825.8	808.7	793.4	791.7	784.9	774.7	761.1	754.3	745.8	738.9
35°	762.8	759.4	742.3	730.4	730.4	723.6	713.4	701.5	696.4	687.9	679.3
37.5°	694.7	689.6	674.2	664.0	664.0	655.5	645.3	640.2	635.1	628.3	623.2
40°	623.2	619.8	607.8	597.6	599.3	592.5	585.7	578.9	575.5	572.1	567.0
42.5°	556.8	553.4	544.8	536.3	536.3	531.2	524.4	519.3	515.9	510.8	509.1
45°	497.2	492.1	485.2	476.7	476.7	471.6	468.2	464.8	463.1	459.7	454.6
47.5°	439.3	435.9	429.1	420.5	420.5	420.5	413.7	408.6	408.6	405.2	403.5
50°	389.9	384.8	379.7	372.9	372.9	369.5	364.4	359.3	359.3	357.6	354.1
52.5°	343.9	340.5	333.7	326.9	326.9	323.5	318.4	316.7	315.0	309.9	308.2
55°	304.8	301.4	296.3	287.7	286.0	284.3	279.2	275.8	274.1	269.0	269.0
57.5°	269.0	265.6	257.1	252.0	250.3	246.9	241.8	238.4	236.7	233.3	229.9
60°	238.4	233.3	226.4	219.6	217.9	214.5	209.4	206.0	204.3	197.5	194.1
62.5°	209.4	204.3	197.5	190.7	189.0	185.6	178.8	175.4	172.0	165.2	161.7
65°	182.2	177.1	170.3	163.5	160.0	158.3	151.5	146.4	143.0	137.9	131.1
67.5°	156.6	151.5	144.7	136.2	136.2	131.1	126.0	120.9	115.8	110.7	105.6
70°	132.8	127.7	120.9	114.1	112.4	109.0	103.9	97.0	93.6	86.8	81.7
72.5°	110.7	105.6	98.8	91.9	90.2	86.8	81.7	74.9	69.8	64.7	59.6
75°	90.2	85.1	78.3	73.2	71.5	68.1	63.0	56.2	51.1	47.7	42.6
77.5°	71.5	66.4	61.3	56.2	54.5	51.1	46.0	42.6	37.5	34.1	28.9
80°	54.5	51.1	46.0	42.6	40.9	37.5	34.1	28.9	25.5	22.1	20.4
82.5°	39.2	35.8	32.3	27.2	27.2	23.8	22.1	18.7	15.3	13.6	11.9
85°	22.1	18.7	17.0	15.3	13.6	13.6	11.9	10.2	8.5	6.8	6.8
87.5°	6.8	6.8	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4
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: P252487

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1217.4	1219.1	1215.7	1219.1	1215.7	1217.4	1214.0	1217.4	1214.0	1217.4	1210.6
5°	1205.5	1205.5	1200.4	1203.8	1200.4	1202.1	1195.2	1196.9	1193.5	1196.9	1190.1
7.5°	1185.0	1186.7	1178.2	1181.6	1176.5	1176.5	1171.4	1173.1	1168.0	1169.7	1164.6
10°	1161.2	1159.5	1151.0	1154.4	1147.6	1147.6	1142.5	1142.5	1135.7	1137.4	1130.5
12.5°	1127.1	1125.4	1115.2	1118.6	1111.8	1111.8	1106.7	1106.7	1099.9	1103.3	1096.5
15°	1088.0	1086.3	1076.1	1077.8	1071.0	1071.0	1064.1	1065.8	1060.7	1064.1	1057.3
17.5°	1043.7	1042.0	1031.8	1033.5	1025.0	1026.7	1021.6	1019.9	1016.5	1018.2	1013.1
20°	997.7	994.3	984.1	985.8	982.4	977.3	973.9	975.6	972.2	975.6	970.5
22.5°	950.1	943.3	934.7	934.7	931.3	931.3	926.2	929.6	922.8	927.9	924.5
25°	895.6	890.5	883.7	887.1	880.3	880.3	875.2	876.9	873.4	876.9	873.4
27.5°	842.8	839.4	829.2	832.6	827.5	829.2	824.1	825.8	824.1	827.5	824.1
30°	786.6	784.9	778.1	778.1	776.4	774.7	773.0	773.0	771.3	776.4	773.0
32.5°	733.8	728.7	721.9	727.0	718.5	723.6	720.2	723.6	720.2	723.6	721.9
35°	679.3	677.6	669.1	670.8	669.1	669.1	667.4	667.4	667.4	672.5	672.5
37.5°	621.5	619.8	614.6	616.4	612.9	611.2	611.2	614.6	614.6	618.1	618.1
40°	565.3	567.0	561.9	561.9	560.2	560.2	560.2	563.6	561.9	565.3	563.6
42.5°	509.1	509.1	504.0	505.7	504.0	505.7	505.7	509.1	509.1	510.8	509.1
45°	456.3	456.3	454.6	456.3	452.9	454.6	452.9	456.3	454.6	456.3	456.3
47.5°	403.5	403.5	403.5	401.8	401.8	401.8	401.8	401.8	400.1	403.5	401.8
50°	354.1	355.8	354.1	354.1	352.4	354.1	352.4	352.4	349.0	350.7	350.7
52.5°	309.9	309.9	306.5	306.5	306.5	304.8	304.8	304.8	303.1	303.1	299.7
55°	267.3	267.3	263.9	263.9	262.2	260.5	258.8	258.8	253.7	253.7	248.6
57.5°	228.2	226.4	221.3	221.3	217.9	216.2	214.5	212.8	209.4	206.0	204.3
60°	192.4	189.0	185.6	183.9	180.5	177.1	173.7	170.3	166.9	165.2	163.5
62.5°	158.3	153.2	149.8	148.1	144.7	139.6	136.2	132.8	129.4	127.7	124.3
65°	127.7	122.6	117.5	115.8	112.4	109.0	103.9	100.5	97.0	95.3	95.3
67.5°	100.5	95.3	88.5	88.5	85.1	81.7	78.3	74.9	73.2	74.9	74.9
70°	74.9	71.5	66.4	64.7	61.3	57.9	56.2	56.2	56.2	57.9	56.2
72.5°	56.2	51.1	47.7	46.0	44.3	42.6	42.6	42.6	40.9	42.6	42.6
75°	39.2	35.8	32.3	32.3	30.6	30.6	30.6	30.6	30.6	30.6	30.6
77.5°	27.2	23.8	22.1	22.1	22.1	20.4	20.4	20.4	20.4	20.4	20.4
80°	17.0	17.0	15.3	15.3	13.6	13.6	13.6	13.6	13.6	13.6	13.6
82.5°	10.2	10.2	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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: P252487

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1210.6	1215.7	1208.9	1214.0	1212.3	1210.6	1207.2	1214.0
5°	1190.1	1191.8	1185.0	1191.8	1190.1	1186.7	1183.3	1190.1
7.5°	1161.2	1166.3	1157.8	1164.6	1162.9	1159.5	1156.1	1162.9
10°	1128.8	1134.0	1127.1	1132.2	1132.2	1128.8	1123.7	1130.5
12.5°	1093.1	1096.5	1089.7	1096.5	1094.8	1091.4	1089.7	1094.8
15°	1053.9	1059.0	1052.2	1057.3	1055.6	1053.9	1052.2	1057.3
17.5°	1011.4	1016.5	1011.4	1016.5	1016.5	1011.4	1009.7	1013.1
20°	968.8	972.2	967.1	972.2	970.5	970.5	967.1	972.2
22.5°	921.1	926.2	922.8	926.2	924.5	924.5	922.8	926.2
25°	873.4	878.6	873.4	878.6	876.9	876.9	873.4	882.0
27.5°	825.8	829.2	824.1	830.9	829.2	825.8	827.5	829.2
30°	774.7	778.1	774.7	779.8	779.8	779.8	776.4	779.8
32.5°	723.6	728.7	723.6	728.7	727.0	727.0	725.3	728.7
35°	672.5	674.2	670.8	675.9	675.9	677.6	674.2	679.3
37.5°	619.8	621.5	619.8	621.5	624.9	619.8	623.2	624.9
40°	565.3	568.7	567.0	568.7	568.7	570.4	568.7	570.4
42.5°	510.8	514.2	510.8	515.9	514.2	514.2	515.9	515.9
45°	454.6	459.7	456.3	459.7	461.4	459.7	459.7	463.1
47.5°	401.8	405.2	403.5	405.2	405.2	405.2	405.2	408.6
50°	349.0	350.7	350.7	352.4	352.4	354.1	350.7	352.4
52.5°	296.3	299.7	299.7	299.7	298.0	299.7	299.7	299.7
55°	248.6	250.3	246.9	250.3	250.3	248.6	248.6	252.0
57.5°	202.6	202.6	202.6	202.6	202.6	200.9	202.6	202.6
60°	160.0	161.7	160.0	160.0	160.0	160.0	158.3	161.7
62.5°	124.3	124.3	122.6	124.3	124.3	124.3	126.0	126.0
65°	97.0	98.8	97.0	98.8	98.8	98.8	98.8	100.5
67.5°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
70°	57.9	57.9	57.9	59.6	57.9	57.9	57.9	59.6
72.5°	42.6	42.6	42.6	42.6	42.6	42.6	44.3	44.3
75°	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
77.5°	20.4	20.4	20.4	22.1	20.4	22.1	20.4	20.4
80°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	3.4	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)