

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: P252696

Luminaire Tested: **LD6B30D010 EU6B30509040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2394.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

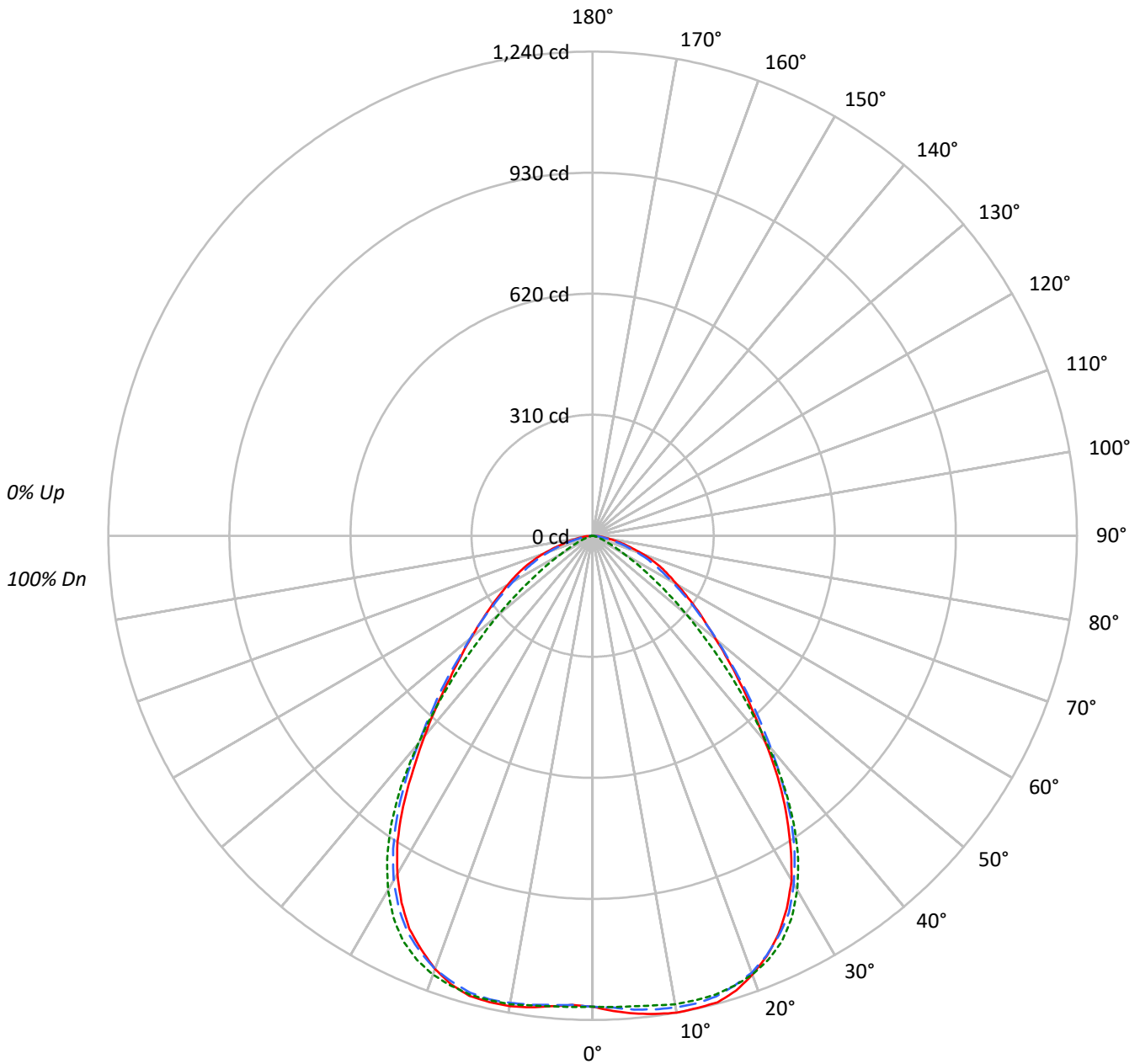
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252696

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBDW1H

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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	78687	78687	78687
5°	80441	79217	79217
10°	82166	80696	81033
15°	83543	82158	82388
20°	83028	83028	81966
25°	81055	82524	79947
30°	76727	78912	75311
35°	68749	71473	67395
40°	58407	59130	56959
45°	49426	45173	47691
50°	41725	31860	41208
55°	36671	20565	36284
60°	32503	12239	32725
65°	30025	7379	30025
70°	26037	4235	25389
75°	20645	2571	19359
80°	15366	1916	14728
85°	14073	1273	12800



TEST NUMBER: P252696

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	4.9
10°-20°	343.7	14.4
20°-30°	516.9	21.6
30°-40°	543.4	22.7
40°-50°	406.0	17.0
50°-60°	252.7	10.6
60°-70°	143.7	6.0
70°-80°	59.2	2.5
80°-90°	12.2	0.5
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°	976.7	40.8
0°-40°	1520.1	63.5
0°-60°	2178.8	91.0
0°-90°	2394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1206	1206	1206	1206	1206	
5°	1228	1218	1210	1206	1210	118
15°	1237	1222	1216	1211	1220	348
25°	1126	1129	1146	1121	1111	515
35°	863	885	897	872	846	536
45°	536	548	490	537	517	415
55°	322	316	181	310	319	290
65°	194	174	48	174	194	192
75°	82	65	10	63	77	89
85°	19	12	2	10	17	21
90°	0	0	0	0	0	



TEST NUMBER: P252696

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1218.1	1216.4	1218.1	1214.7	1213.0	1213.0	1214.7	1211.3	1209.6	1211.3	1209.6
5°	1228.3	1224.9	1226.6	1224.9	1221.5	1221.5	1223.2	1218.1	1218.1	1219.8	1218.1
7.5°	1235.2	1235.2	1235.2	1231.7	1230.0	1228.3	1231.7	1226.6	1224.9	1224.9	1223.2
10°	1240.3	1238.6	1240.3	1236.9	1233.4	1231.7	1235.2	1231.7	1228.3	1231.7	1226.6
12.5°	1238.6	1238.6	1238.6	1236.9	1233.4	1231.7	1235.2	1230.0	1228.3	1230.0	1226.6
15°	1236.9	1231.7	1233.4	1231.7	1226.6	1226.6	1228.3	1223.2	1219.8	1224.9	1221.5
17.5°	1221.5	1218.1	1219.8	1216.4	1213.0	1211.3	1213.0	1211.3	1207.9	1211.3	1207.9
20°	1195.9	1195.9	1197.6	1194.2	1190.8	1189.1	1192.5	1189.1	1185.7	1190.8	1190.8
22.5°	1165.2	1165.2	1165.2	1163.5	1161.8	1161.8	1161.8	1160.1	1158.4	1161.8	1163.5
25°	1126.0	1124.3	1126.0	1127.7	1126.0	1124.3	1126.0	1126.0	1122.6	1129.4	1129.4
27.5°	1076.5	1076.5	1079.9	1078.2	1078.2	1076.5	1079.9	1079.9	1078.2	1083.3	1088.4
30°	1018.5	1015.1	1018.5	1018.5	1020.2	1020.2	1021.9	1021.9	1021.9	1027.0	1030.4
32.5°	943.4	945.1	950.2	948.5	946.8	952.0	952.0	955.4	957.1	960.5	962.2
35°	863.2	864.9	864.9	866.7	870.1	866.7	875.2	873.5	875.2	882.0	885.4
37.5°	777.9	772.8	781.4	777.9	779.6	779.6	783.1	784.8	789.9	798.4	798.4
40°	685.8	687.5	690.9	692.6	694.3	694.3	694.3	699.5	701.2	711.4	709.7
42.5°	605.6	605.6	609.0	610.8	610.8	610.8	610.8	615.9	619.3	622.7	626.1
45°	535.7	530.6	534.0	534.0	537.4	535.7	539.1	542.5	544.2	549.3	547.6
47.5°	469.2	467.4	469.2	470.9	469.2	470.9	472.6	474.3	476.0	476.0	476.0
50°	411.1	411.1	412.9	414.6	414.6	414.6	414.6	416.3	416.3	419.7	416.3
52.5°	363.4	365.1	365.1	363.4	365.1	365.1	366.8	366.8	365.1	365.1	360.0
55°	322.4	320.7	322.4	320.7	322.4	322.4	320.7	320.7	319.0	317.3	315.6
57.5°	283.2	283.2	283.2	283.2	281.5	283.2	281.5	279.8	279.8	276.4	271.3
60°	249.1	249.1	249.1	249.1	249.1	247.4	249.1	247.4	244.0	240.5	233.7
62.5°	220.1	218.4	220.1	218.4	218.4	216.7	216.7	215.0	211.5	208.1	201.3
65°	194.5	196.2	194.5	194.5	192.8	191.1	191.1	189.4	184.2	180.8	174.0
67.5°	167.2	165.5	165.5	165.5	163.8	163.8	163.8	160.4	157.0	151.8	145.0
70°	136.5	136.5	136.5	134.8	134.8	133.1	133.1	131.4	128.0	124.5	116.0
72.5°	107.5	107.5	107.5	104.1	105.8	104.1	104.1	100.7	98.9	93.8	88.7
75°	81.9	81.9	80.2	80.2	78.5	76.8	76.8	75.1	73.4	69.9	64.8
77.5°	59.7	59.7	59.7	58.0	56.3	54.6	54.6	52.9	51.2	49.5	46.1
80°	40.9	40.9	40.9	40.9	39.2	37.5	37.5	35.8	35.8	34.1	30.7
82.5°	27.3	27.3	27.3	27.3	25.6	25.6	25.6	23.9	22.2	22.2	18.8
85°	18.8	18.8	17.1	17.1	17.1	17.1	15.4	15.4	13.6	11.9	11.9
87.5°	10.2	10.2	10.2	10.2	8.5	8.5	8.5	8.5	6.8	6.8	5.1
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: P252696

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1214.7	1214.7	1213.0	1207.9	1209.6	1207.9	1209.6	1207.9	1202.7	1207.9	1202.7
5°	1221.5	1223.2	1219.8	1213.0	1214.7	1213.0	1213.0	1211.3	1206.1	1209.6	1206.1
7.5°	1228.3	1226.6	1224.9	1218.1	1219.8	1218.1	1218.1	1214.7	1209.6	1213.0	1207.9
10°	1231.7	1231.7	1228.3	1221.5	1221.5	1219.8	1221.5	1219.8	1213.0	1218.1	1214.7
12.5°	1231.7	1230.0	1230.0	1221.5	1223.2	1221.5	1223.2	1219.8	1214.7	1218.1	1216.4
15°	1226.6	1226.6	1224.9	1216.4	1218.1	1218.1	1219.8	1216.4	1211.3	1216.4	1213.0
17.5°	1216.4	1216.4	1214.7	1207.9	1211.3	1211.3	1213.0	1209.6	1204.4	1207.9	1207.9
20°	1195.9	1197.6	1197.6	1192.5	1195.9	1195.9	1197.6	1195.9	1194.2	1195.9	1192.5
22.5°	1172.0	1175.4	1175.4	1170.3	1173.7	1173.7	1178.9	1177.1	1173.7	1175.4	1173.7
25°	1136.2	1139.6	1143.0	1139.6	1143.0	1143.0	1148.1	1146.4	1143.0	1146.4	1141.3
27.5°	1095.3	1097.0	1100.4	1097.0	1102.1	1100.4	1105.5	1103.8	1098.7	1103.8	1102.1
30°	1037.3	1044.1	1049.2	1044.1	1049.2	1049.2	1052.6	1050.9	1049.2	1047.5	1047.5
32.5°	972.4	979.2	979.2	977.5	981.0	981.0	982.7	979.2	977.5	979.2	981.0
35°	892.2	895.7	899.1	897.4	899.1	900.8	899.1	900.8	895.7	897.4	897.4
37.5°	805.2	808.6	808.6	803.5	806.9	806.9	803.5	803.5	800.1	803.5	796.7
40°	713.1	709.7	711.4	708.0	704.6	704.6	702.9	696.1	692.6	694.3	696.1
42.5°	622.7	622.7	617.6	609.0	600.5	600.5	595.4	592.0	585.2	588.6	586.9
45°	545.9	537.4	530.6	516.9	511.8	508.4	499.9	491.3	487.9	489.6	487.9
47.5°	472.6	465.7	448.7	429.9	424.8	419.7	409.4	399.2	395.8	392.4	392.4
50°	411.1	399.2	380.4	360.0	351.4	342.9	329.3	319.0	312.2	313.9	313.9
52.5°	354.8	341.2	319.0	293.4	283.2	273.0	261.0	249.1	244.0	242.3	242.3
55°	305.4	290.0	267.8	238.8	230.3	218.4	203.0	189.4	182.5	180.8	184.2
57.5°	261.0	247.4	221.8	192.8	182.5	170.6	155.2	143.3	134.8	133.1	134.8
60°	225.2	206.4	184.2	157.0	143.3	133.1	116.0	105.8	97.2	93.8	95.5
62.5°	189.4	172.3	150.1	122.8	112.6	102.4	87.0	75.1	68.2	66.5	68.2
65°	162.1	145.0	124.5	100.7	90.4	80.2	66.5	54.6	49.5	47.8	49.5
67.5°	134.8	119.4	102.4	80.2	71.7	63.1	49.5	40.9	34.1	32.4	34.1
70°	109.2	95.5	78.5	63.1	54.6	47.8	37.5	29.0	23.9	22.2	23.9
72.5°	81.9	71.7	59.7	46.1	40.9	35.8	27.3	20.5	17.1	15.4	17.1
75°	59.7	51.2	42.7	32.4	29.0	25.6	18.8	13.6	11.9	10.2	11.9
77.5°	40.9	35.8	29.0	22.2	18.8	17.1	11.9	10.2	8.5	6.8	6.8
80°	27.3	23.9	18.8	15.4	13.6	11.9	8.5	6.8	5.1	5.1	5.1
82.5°	17.1	13.6	11.9	8.5	6.8	6.8	5.1	3.4	3.4	3.4	3.4
85°	10.2	8.5	6.8	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7
87.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	0.0	0.0	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: P252696

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1206.1	1202.7	1202.7	1204.4	1206.1	1207.9	1204.4	1202.7	1202.7	1207.9	1204.4
5°	1206.1	1204.4	1204.4	1204.4	1207.9	1209.6	1206.1	1204.4	1206.1	1211.3	1209.6
7.5°	1211.3	1207.9	1209.6	1209.6	1211.3	1214.7	1211.3	1209.6	1211.3	1216.4	1213.0
10°	1214.7	1211.3	1213.0	1211.3	1216.4	1218.1	1214.7	1213.0	1214.7	1221.5	1219.8
12.5°	1216.4	1214.7	1214.7	1213.0	1218.1	1219.8	1216.4	1214.7	1216.4	1221.5	1219.8
15°	1213.0	1211.3	1211.3	1211.3	1214.7	1218.1	1213.0	1211.3	1211.3	1216.4	1214.7
17.5°	1206.1	1202.7	1202.7	1202.7	1204.4	1206.1	1201.0	1199.3	1197.6	1202.7	1201.0
20°	1194.2	1190.8	1187.4	1187.4	1189.1	1189.1	1185.7	1180.6	1180.6	1182.3	1178.9
22.5°	1172.0	1170.3	1166.9	1165.2	1168.6	1166.9	1160.1	1155.0	1153.3	1155.0	1151.6
25°	1141.3	1137.9	1136.2	1134.5	1136.2	1134.5	1127.7	1120.8	1120.8	1120.8	1115.7
27.5°	1098.7	1095.3	1093.6	1093.6	1095.3	1091.8	1085.0	1078.2	1074.8	1074.8	1069.7
30°	1044.1	1044.1	1042.4	1040.7	1039.0	1039.0	1028.7	1021.9	1018.5	1020.2	1016.8
32.5°	977.5	975.8	974.1	969.0	970.7	969.0	960.5	955.4	950.2	946.8	945.1
35°	892.2	892.2	890.5	890.5	890.5	888.8	880.3	875.2	871.8	870.1	864.9
37.5°	798.4	796.7	795.0	795.0	795.0	795.0	789.9	784.8	784.8	783.1	779.6
40°	692.6	694.3	696.1	694.3	699.5	704.6	697.8	694.3	692.6	697.8	690.9
42.5°	590.3	588.6	597.1	598.8	598.8	607.3	609.0	610.8	609.0	612.5	612.5
45°	491.3	489.6	498.2	501.6	510.1	520.3	525.5	534.0	537.4	540.8	537.4
47.5°	397.5	404.3	411.1	419.7	426.5	443.6	453.8	462.3	465.7	470.9	470.9
50°	319.0	325.8	337.8	344.6	353.1	373.6	390.7	402.6	409.4	414.6	412.9
52.5°	245.7	257.6	273.0	279.8	291.7	315.6	334.4	348.0	356.6	361.7	363.4
55°	189.4	199.6	215.0	225.2	237.1	262.7	286.6	302.0	310.5	317.3	320.7
57.5°	139.9	151.8	168.9	177.4	191.1	220.1	240.5	259.3	269.5	278.1	279.8
60°	102.4	114.3	129.7	139.9	153.5	182.5	206.4	223.5	235.4	242.3	245.7
62.5°	73.4	85.3	100.7	110.9	122.8	148.4	172.3	189.4	201.3	209.8	215.0
65°	52.9	64.8	80.2	88.7	98.9	122.8	145.0	162.1	174.0	184.2	187.7
67.5°	39.2	47.8	61.4	69.9	80.2	98.9	117.7	133.1	145.0	153.5	157.0
70°	29.0	35.8	47.8	52.9	59.7	76.8	92.1	105.8	116.0	122.8	126.2
72.5°	20.5	25.6	34.1	39.2	44.4	58.0	69.9	80.2	87.0	93.8	97.2
75°	13.6	17.1	23.9	27.3	30.7	40.9	49.5	58.0	63.1	68.2	69.9
77.5°	8.5	11.9	17.1	18.8	22.2	27.3	34.1	39.2	42.7	46.1	49.5
80°	5.1	6.8	10.2	11.9	13.6	18.8	22.2	25.6	29.0	32.4	34.1
82.5°	3.4	5.1	6.8	6.8	8.5	10.2	13.6	17.1	18.8	20.5	22.2
85°	1.7	1.7	3.4	3.4	5.1	5.1	6.8	8.5	10.2	11.9	13.6
87.5°	1.7	1.7	1.7	1.7	3.4	3.4	5.1	5.1	5.1	6.8	6.8
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: P252696

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1201.0	1206.1	1201.0	1204.4	1202.7	1202.7	1201.0	1202.7
5°	1206.1	1213.0	1206.1	1211.3	1207.9	1207.9	1207.9	1209.6
7.5°	1211.3	1218.1	1213.0	1218.1	1216.4	1214.7	1214.7	1218.1
10°	1216.4	1221.5	1218.1	1223.2	1221.5	1219.8	1219.8	1223.2
12.5°	1216.4	1223.2	1219.8	1224.9	1223.2	1221.5	1221.5	1223.2
15°	1211.3	1219.8	1214.7	1219.8	1218.1	1216.4	1216.4	1219.8
17.5°	1195.9	1202.7	1199.3	1202.7	1202.7	1201.0	1202.7	1204.4
20°	1175.4	1180.6	1177.1	1180.6	1180.6	1177.1	1178.9	1180.6
22.5°	1146.4	1151.6	1148.1	1151.6	1149.9	1148.1	1148.1	1146.4
25°	1110.6	1117.4	1112.3	1115.7	1112.3	1108.9	1108.9	1110.6
27.5°	1066.3	1071.4	1064.5	1068.0	1064.5	1061.1	1061.1	1059.4
30°	1008.3	1010.0	1004.8	1008.3	1004.8	1003.1	999.7	999.7
32.5°	938.3	940.0	934.9	934.9	931.5	931.5	924.7	929.8
35°	856.4	858.1	856.4	854.7	849.6	847.9	846.2	846.2
37.5°	771.1	771.1	766.0	764.3	760.9	757.5	759.2	754.1
40°	684.1	682.4	677.3	679.0	677.3	672.2	670.5	668.8
42.5°	602.2	602.2	597.1	598.8	595.4	593.7	588.6	590.3
45°	530.6	530.6	525.5	525.5	523.7	518.6	520.3	516.9
47.5°	465.7	465.7	464.0	464.0	458.9	457.2	457.2	457.2
50°	409.4	409.4	409.4	409.4	407.7	406.0	404.3	406.0
52.5°	361.7	365.1	363.4	363.4	361.7	360.0	358.3	358.3
55°	319.0	320.7	320.7	322.4	320.7	319.0	320.7	319.0
57.5°	281.5	284.9	284.9	284.9	284.9	284.9	283.2	281.5
60°	249.1	250.8	250.8	252.5	252.5	252.5	250.8	250.8
62.5°	216.7	220.1	221.8	221.8	223.5	221.8	221.8	221.8
65°	191.1	194.5	196.2	194.5	196.2	196.2	194.5	194.5
67.5°	160.4	163.8	163.8	163.8	163.8	165.5	163.8	163.8
70°	129.7	133.1	131.4	133.1	133.1	133.1	133.1	133.1
72.5°	98.9	100.7	102.4	102.4	104.1	102.4	102.4	102.4
75°	71.7	75.1	75.1	75.1	75.1	76.8	76.8	76.8
77.5°	51.2	52.9	52.9	54.6	54.6	54.6	54.6	56.3
80°	35.8	35.8	37.5	37.5	39.2	39.2	39.2	39.2
82.5°	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6
85°	13.6	15.4	15.4	15.4	15.4	17.1	17.1	17.1
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)