

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: P252588

Luminaire Tested: **LD6B30D010 EU6B30509024 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252588
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 EU6B30509024 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

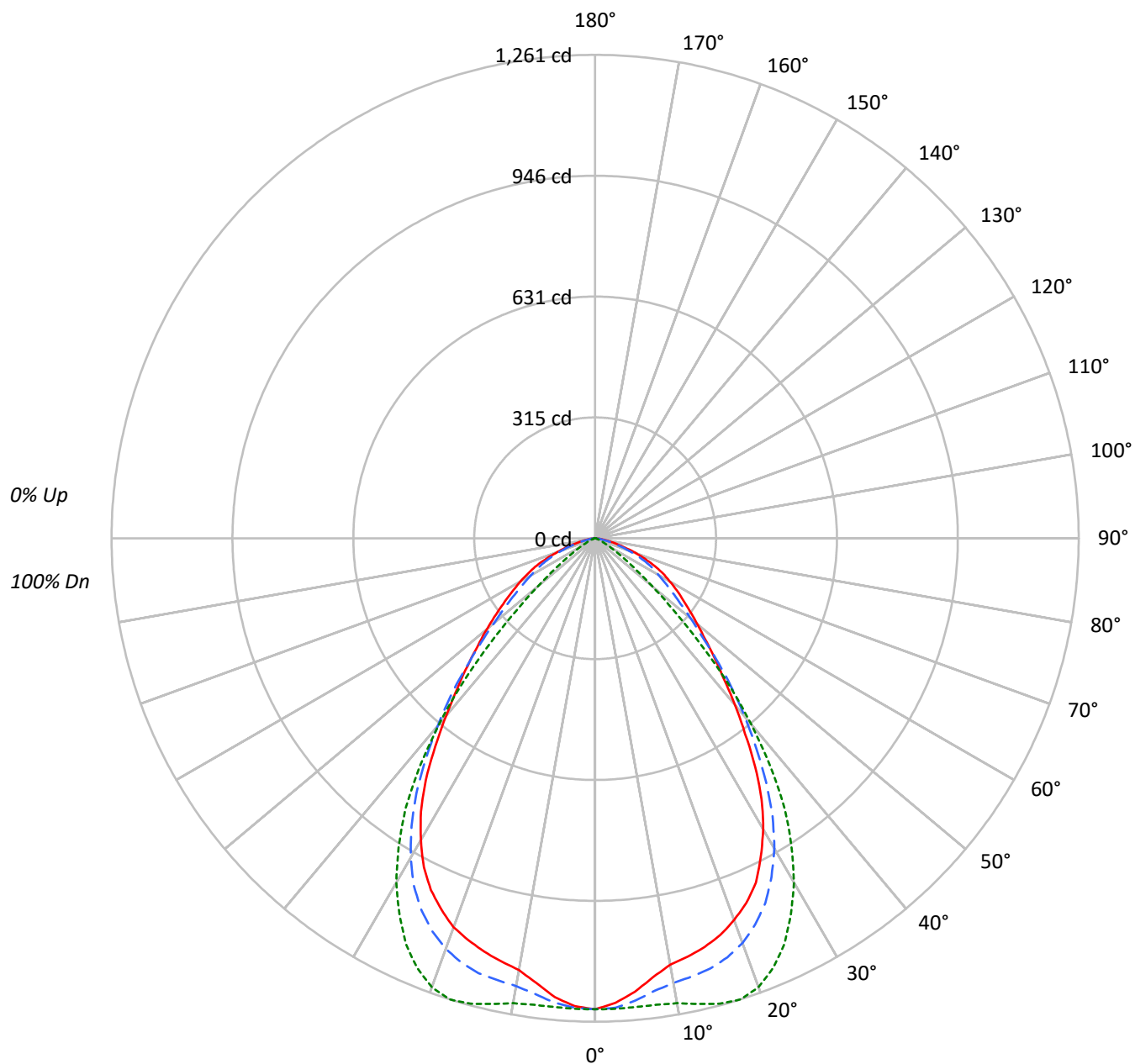
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50		
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46		
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42		
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	80155	80155	80155
5°	77763	80369	78693
10°	74806	81577	75747
15°	74539	84900	75404
20°	73566	86479	74947
25°	71366	84043	72899
30°	66022	78113	68478
35°	57917	68669	61310
40°	48263	53833	51406
45°	40624	35512	43373
50°	35179	19457	37341
55°	31825	10339	32633
60°	29280	5376	29280
65°	26537	2856	25873
70°	21402	1621	19781
75°	14670	1084	13612
80°	9618	526	8529
85°	6363	1048	5315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	5.4
10°-20°	331.3	15.6
20°-30°	489.5	23.0
30°-40°	494.4	23.2
40°-50°	340.8	16.0
50°-60°	195.7	9.2
60°-70°	113.9	5.4
70°-80°	41.6	2.0
80°-90°	6.3	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°	935.3	44.0
0°-40°	1429.7	67.2
0°-60°	1966.2	92.4
0°-90°	2128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2128.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1229	1229	1229	1229	1229	
5°	1187	1210	1227	1216	1202	111
15°	1104	1162	1257	1175	1116	311
25°	991	1050	1168	1071	1013	452
35°	727	777	862	812	770	451
45°	440	446	385	474	470	342
55°	280	246	91	256	287	252
65°	172	145	18	144	168	168
75°	58	47	4	46	54	66
85°	8	4	1	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°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1213.0	1214.4	1215.8	1214.4	1215.8	1221.5	1217.2	1220.1	1220.1	1221.5	1225.8
5°	1187.4	1187.4	1190.3	1188.8	1193.1	1198.8	1194.5	1198.8	1200.2	1203.0	1210.1
7.5°	1154.7	1154.7	1156.2	1156.2	1161.8	1167.5	1164.7	1170.4	1176.0	1181.7	1190.3
10°	1129.2	1132.0	1132.0	1133.4	1139.1	1146.2	1144.8	1151.9	1157.6	1166.1	1177.5
12.5°	1117.8	1119.2	1119.2	1122.1	1127.8	1134.9	1133.4	1140.5	1149.1	1159.0	1170.4
15°	1103.6	1106.5	1105.0	1107.9	1113.6	1120.7	1119.2	1126.3	1136.3	1146.2	1161.8
17.5°	1085.1	1086.6	1088.0	1088.0	1093.7	1099.3	1099.3	1106.5	1117.8	1129.2	1146.2
20°	1059.6	1062.4	1062.4	1063.8	1068.1	1076.6	1075.2	1082.3	1093.7	1105.0	1123.5
22.5°	1029.8	1031.2	1031.2	1032.6	1039.7	1044.0	1045.4	1051.1	1061.0	1073.8	1090.8
25°	991.4	992.8	991.4	995.7	998.5	1007.0	1004.2	1011.3	1022.7	1032.6	1049.6
27.5°	936.0	938.8	938.8	940.3	947.4	954.5	954.5	961.6	971.5	978.6	995.7
30°	876.4	880.6	876.4	883.5	886.3	892.0	896.2	900.5	909.0	919.0	934.6
32.5°	808.2	806.8	808.2	811.0	819.5	823.8	826.6	830.9	839.4	847.9	860.7
35°	727.2	730.1	731.5	737.2	737.2	744.3	745.7	748.5	761.3	767.0	776.9
37.5°	642.0	644.8	646.3	649.1	654.8	657.6	661.9	666.1	674.7	684.6	690.3
40°	566.7	566.7	568.1	571.0	575.2	576.7	580.9	586.6	592.3	600.8	606.5
42.5°	495.7	497.1	495.7	498.5	502.8	508.5	507.1	514.2	515.6	521.3	525.5
45°	440.3	440.3	437.5	440.3	440.3	446.0	444.6	447.4	446.0	448.8	446.0
47.5°	387.8	389.2	387.8	389.2	389.2	389.2	390.6	387.8	389.2	384.9	376.4
50°	346.6	348.0	345.1	346.6	345.1	343.7	345.1	340.9	339.5	333.8	325.3
52.5°	311.1	309.6	308.2	308.2	308.2	306.8	305.4	301.1	296.9	291.2	281.2
55°	279.8	278.4	277.0	277.0	274.1	272.7	272.7	268.4	264.2	257.1	245.7
57.5°	251.4	250.0	248.6	248.6	247.1	244.3	244.3	240.0	234.4	225.8	215.9
60°	224.4	224.4	224.4	223.0	223.0	220.2	220.2	215.9	210.2	201.7	190.3
62.5°	200.3	198.8	198.8	198.8	198.8	197.4	196.0	193.2	187.5	179.0	169.0
65°	171.9	171.9	171.9	171.9	170.4	170.4	170.4	166.2	163.3	154.8	144.9
67.5°	140.6	140.6	140.6	140.6	139.2	140.6	140.6	137.8	134.9	126.4	117.9
70°	112.2	110.8	109.4	110.8	109.4	109.4	110.8	107.9	106.5	99.4	90.9
72.5°	82.4	83.8	82.4	82.4	82.4	81.0	82.4	81.0	78.1	72.4	66.8
75°	58.2	59.7	59.7	58.2	58.2	58.2	56.8	56.8	54.0	49.7	46.9
77.5°	39.8	39.8	39.8	39.8	38.3	38.3	38.3	36.9	35.5	32.7	29.8
80°	25.6	25.6	25.6	25.6	24.1	24.1	24.1	22.7	22.7	19.9	17.0
82.5°	15.6	15.6	15.6	15.6	15.6	15.6	14.2	14.2	12.8	11.4	9.9
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.1	7.1	5.7	4.3
87.5°	2.8	2.8	4.3	4.3	4.3	4.3	4.3	4.3	2.8	2.8	2.8
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°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1222.9	1224.3	1224.3	1224.3	1228.6	1230.0	1225.8	1221.5	1230.0	1228.6	1231.4
5°	1208.7	1213.0	1215.8	1217.2	1221.5	1224.3	1220.1	1218.7	1225.8	1227.2	1228.6
7.5°	1191.7	1198.8	1205.9	1208.7	1214.4	1217.2	1215.8	1215.8	1224.3	1227.2	1227.2
10°	1180.3	1190.3	1198.8	1205.9	1213.0	1217.2	1217.2	1218.7	1228.6	1231.4	1234.3
12.5°	1177.5	1190.3	1201.6	1211.6	1217.2	1224.3	1225.8	1230.0	1240.0	1244.2	1244.2
15°	1170.4	1187.4	1201.6	1214.4	1222.9	1231.4	1234.3	1242.8	1254.2	1257.0	1259.8
17.5°	1157.6	1174.6	1191.7	1207.3	1218.7	1225.8	1234.3	1242.8	1257.0	1261.3	1262.7
20°	1134.9	1154.7	1171.8	1187.4	1198.8	1208.7	1217.2	1227.2	1240.0	1245.6	1247.1
22.5°	1100.8	1120.7	1137.7	1154.7	1166.1	1174.6	1183.1	1194.5	1207.3	1213.0	1213.0
25°	1059.6	1078.0	1096.5	1109.3	1120.7	1130.6	1134.9	1147.6	1160.4	1167.5	1167.5
27.5°	1007.0	1024.1	1041.1	1055.3	1062.4	1070.9	1078.0	1089.4	1099.3	1105.0	1110.7
30°	940.3	957.3	972.9	987.1	995.7	1004.2	1011.3	1019.8	1029.8	1036.9	1038.3
32.5°	867.8	882.0	897.7	911.9	920.4	923.2	930.3	938.8	947.4	953.1	954.5
35°	788.3	798.2	808.2	821.0	829.5	829.5	836.6	842.3	849.4	862.2	859.3
37.5°	694.5	708.8	715.9	720.1	725.8	731.5	732.9	740.0	748.5	751.4	755.6
40°	606.5	610.7	615.0	615.0	620.7	620.7	620.7	622.1	630.6	632.1	637.7
42.5°	518.4	518.4	514.2	509.9	511.3	509.9	502.8	502.8	507.1	512.7	512.7
45°	436.0	426.1	413.3	403.4	396.3	393.4	384.9	384.9	383.5	384.9	390.6
47.5°	366.4	349.4	328.1	308.2	301.1	295.4	282.6	277.0	274.1	275.5	278.4
50°	308.2	289.8	265.6	241.5	228.7	221.6	206.0	196.0	194.6	191.7	197.4
52.5°	265.6	242.9	217.3	188.9	176.1	164.8	147.7	139.2	133.5	133.5	134.9
55°	228.7	204.5	176.1	147.7	134.9	126.4	109.4	98.0	92.3	90.9	95.2
57.5°	197.4	174.7	146.3	117.9	105.1	95.2	78.1	68.2	63.9	61.1	62.5
60°	173.3	150.6	122.1	95.2	83.8	72.4	58.2	46.9	41.2	41.2	42.6
62.5°	150.6	129.3	103.7	78.1	68.2	58.2	42.6	32.7	28.4	27.0	28.4
65°	127.8	107.9	86.6	65.3	55.4	46.9	34.1	25.6	19.9	18.5	19.9
67.5°	103.7	88.1	69.6	52.6	44.0	36.9	25.6	18.5	14.2	12.8	14.2
70°	81.0	66.8	52.6	38.3	32.7	27.0	18.5	14.2	9.9	8.5	9.9
72.5°	58.2	48.3	36.9	27.0	22.7	18.5	12.8	9.9	7.1	5.7	7.1
75°	39.8	32.7	24.1	17.0	14.2	12.8	8.5	5.7	4.3	4.3	4.3
77.5°	25.6	19.9	15.6	11.4	8.5	7.1	4.3	2.8	2.8	2.8	2.8
80°	14.2	11.4	8.5	5.7	4.3	4.3	2.8	2.8	1.4	1.4	1.4
82.5°	8.5	5.7	4.3	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4
85°	4.3	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	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°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1225.8	1227.2	1222.9	1228.6	1224.3	1230.0	1230.0	1224.3	1225.8	1222.9	1228.6
5°	1222.9	1222.9	1220.1	1224.3	1218.7	1224.3	1222.9	1213.0	1215.8	1210.1	1215.8
7.5°	1222.9	1220.1	1215.8	1220.1	1213.0	1217.2	1211.6	1201.6	1198.8	1191.7	1191.7
10°	1227.2	1222.9	1217.2	1218.7	1211.6	1213.0	1204.5	1190.3	1186.0	1177.5	1174.6
12.5°	1237.1	1232.9	1224.3	1227.2	1217.2	1217.2	1205.9	1188.8	1180.3	1168.9	1166.1
15°	1251.3	1244.2	1234.3	1235.7	1225.8	1220.1	1205.9	1186.0	1174.6	1159.0	1154.7
17.5°	1254.2	1247.1	1234.3	1234.3	1221.5	1214.4	1197.4	1174.6	1160.4	1144.8	1136.3
20°	1238.5	1231.4	1217.2	1215.8	1204.5	1194.5	1176.0	1153.3	1139.1	1122.1	1115.0
22.5°	1205.9	1197.4	1184.6	1183.1	1171.8	1166.1	1146.2	1123.5	1109.3	1092.2	1086.6
25°	1157.6	1153.3	1140.5	1139.1	1129.2	1122.1	1105.0	1083.7	1070.9	1053.9	1048.2
27.5°	1100.8	1096.5	1083.7	1083.7	1072.4	1068.1	1052.5	1032.6	1022.7	1007.0	999.9
30°	1032.6	1026.9	1019.8	1018.4	1008.4	1004.2	990.0	971.5	961.6	948.8	946.0
32.5°	951.6	947.4	943.1	941.7	931.7	927.5	917.5	899.1	890.6	879.2	874.9
35°	857.9	855.0	850.8	849.4	845.1	840.8	830.9	816.7	812.4	803.9	799.7
37.5°	749.9	752.8	749.9	749.9	745.7	747.1	738.6	730.1	725.8	720.1	717.3
40°	633.5	639.2	643.4	643.4	642.0	647.7	646.3	639.2	637.7	634.9	633.5
42.5°	515.6	518.4	526.9	532.6	531.2	545.4	546.8	552.5	556.8	553.9	555.4
45°	392.0	400.5	411.9	417.6	424.7	443.1	453.1	464.5	474.4	480.1	478.7
47.5°	282.6	292.6	305.4	313.9	326.7	349.4	375.0	389.2	403.4	410.5	417.6
50°	204.5	214.5	230.1	242.9	251.4	282.6	309.6	328.1	343.7	353.7	360.8
52.5°	143.5	154.8	171.9	183.2	196.0	225.8	257.1	278.4	295.4	308.2	315.3
55°	99.4	112.2	127.8	139.2	153.4	184.6	214.5	237.2	255.7	267.0	275.5
57.5°	69.6	81.0	96.6	106.5	120.7	150.6	180.4	203.1	221.6	232.9	242.9
60°	46.9	58.2	73.9	83.8	95.2	125.0	152.0	176.1	193.2	204.5	214.5
62.5°	32.7	42.6	58.2	68.2	78.1	103.7	129.3	150.6	167.6	180.4	188.9
65°	25.6	34.1	46.9	55.4	65.3	86.6	107.9	126.4	143.5	156.2	161.9
67.5°	18.5	27.0	36.9	44.0	51.1	69.6	88.1	102.3	117.9	127.8	134.9
70°	12.8	18.5	27.0	32.7	38.3	52.6	66.8	79.5	90.9	98.0	103.7
72.5°	9.9	12.8	18.5	22.7	27.0	36.9	48.3	58.2	66.8	72.4	78.1
75°	5.7	8.5	12.8	15.6	18.5	25.6	32.7	39.8	45.5	49.7	52.6
77.5°	2.8	4.3	7.1	8.5	11.4	15.6	21.3	25.6	29.8	32.7	35.5
80°	2.8	2.8	4.3	4.3	5.7	8.5	11.4	14.2	17.0	19.9	21.3
82.5°	1.4	1.4	2.8	2.8	2.8	4.3	5.7	8.5	9.9	11.4	12.8
85°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.3	5.7	7.1	7.1
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.3
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: P252588

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6	1228.6
2.5°	1224.3	1227.2	1225.8	1228.6	1224.3	1222.9	1225.8	1221.5
5°	1208.7	1210.1	1208.7	1208.7	1205.9	1203.0	1205.9	1201.6
7.5°	1184.6	1184.6	1180.3	1180.3	1174.6	1171.8	1171.8	1170.4
10°	1164.7	1160.4	1156.2	1157.6	1149.1	1146.2	1144.8	1143.4
12.5°	1154.7	1151.9	1144.8	1144.8	1136.3	1133.4	1132.0	1130.6
15°	1143.4	1137.7	1132.0	1130.6	1123.5	1120.7	1119.2	1116.4
17.5°	1123.5	1119.2	1112.1	1112.1	1105.0	1103.6	1100.8	1099.3
20°	1102.2	1096.5	1090.8	1090.8	1082.3	1082.3	1078.0	1079.5
22.5°	1072.4	1068.1	1062.4	1062.4	1055.3	1053.9	1049.6	1048.2
25°	1036.9	1031.2	1026.9	1025.5	1019.8	1017.0	1015.5	1012.7
27.5°	990.0	985.7	981.5	978.6	971.5	970.1	965.8	967.3
30°	931.7	928.9	927.5	924.6	916.1	913.3	913.3	909.0
32.5°	867.8	863.6	860.7	856.5	849.4	847.9	843.7	845.1
35°	789.7	784.0	779.8	781.2	772.7	771.2	768.4	769.8
37.5°	708.8	703.1	697.4	696.0	688.9	688.9	684.6	684.6
40°	625.0	619.3	616.4	616.4	607.9	609.3	605.1	603.6
42.5°	549.7	544.0	542.6	541.2	536.9	535.5	531.2	532.6
45°	478.7	477.2	477.2	474.4	470.1	468.7	470.1	470.1
47.5°	416.2	417.6	416.2	416.2	413.3	416.2	413.3	414.7
50°	363.6	366.4	366.4	366.4	365.0	366.4	366.4	367.9
52.5°	319.6	323.8	322.4	323.8	322.4	325.3	323.8	325.3
55°	281.2	284.1	285.5	286.9	286.9	286.9	286.9	286.9
57.5°	245.7	250.0	251.4	252.8	252.8	255.7	252.8	252.8
60°	217.3	221.6	223.0	224.4	224.4	225.8	223.0	224.4
62.5°	191.7	196.0	196.0	197.4	197.4	197.4	194.6	196.0
65°	166.2	167.6	169.0	169.0	167.6	167.6	166.2	167.6
67.5°	137.8	139.2	137.8	137.8	136.4	136.4	133.5	134.9
70°	106.5	106.5	107.9	106.5	105.1	106.5	105.1	103.7
72.5°	79.5	79.5	79.5	78.1	78.1	76.7	78.1	78.1
75°	54.0	54.0	55.4	55.4	55.4	55.4	54.0	54.0
77.5°	35.5	35.5	35.5	35.5	36.9	35.5	35.5	35.5
80°	22.7	22.7	24.1	24.1	22.7	22.7	22.7	22.7
82.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
85°	8.5	8.5	8.5	8.5	7.1	7.1	7.1	7.1
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.8	2.8
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)