

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: P252387

Luminaire Tested: **LD6B30D010 EU6B30509730 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252387  
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 EU6B30509730 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS 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: 1995.0 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

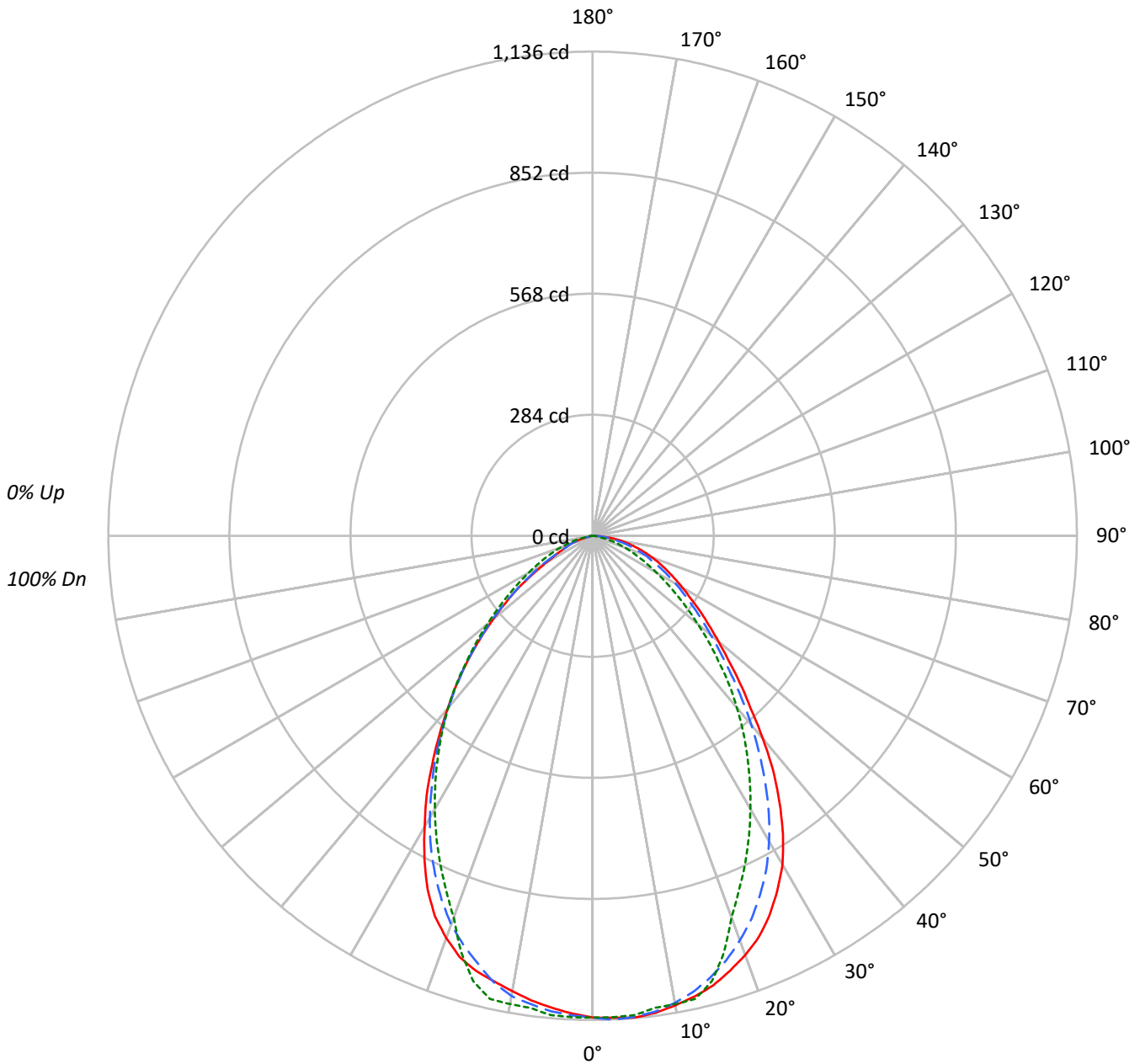
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	73748	73748	73748
5°	74318	73931	72779
10°	74104	73912	71871
15°	73769	73074	71392
20°	72670	66151	69712
25°	70697	60979	65946
30°	67130	55739	59385
35°	60912	50391	52262
40°	52888	44882	45010
45°	45108	38603	38197
50°	39036	32631	30845
55°	34897	27219	23875
60°	31798	22599	16088
65°	29686	18586	12010
70°	28288	15127	10072
75°	26644	10738	3327
80°	25360	5523	1090
85°	20885	3294	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	5.4
10°-20°	298.6	15.0
20°-30°	412.1	20.7
30°-40°	419.4	21.0
40°-50°	337.0	16.9
50°-60°	224.1	11.2
60°-70°	127.7	6.4
70°-80°	57.4	2.9
80°-90°	12.1	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°	817.4	41.0
0°-40°	1236.7	62.0
0°-60°	1797.9	90.1
0°-90°	1995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1995.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1130	1130	1130	1130	1130	
5°	1135	1133	1129	1120	1111	108
15°	1092	1072	1082	1039	1057	307
25°	982	929	847	875	916	450
35°	765	706	633	644	656	475
45°	489	460	418	414	414	379
55°	307	286	239	213	210	276
65°	192	172	120	78	78	192
75°	106	88	43	18	13	113
85°	28	19	4	2	0	33
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°	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4
2.5°	1131.9	1137.7	1136.3	1134.8	1136.3	1134.8	1131.9	1131.9	1128.9	1128.9	1136.3
5°	1134.8	1137.7	1136.3	1134.8	1134.8	1136.3	1130.4	1130.4	1127.4	1126.0	1133.3
7.5°	1128.9	1133.3	1130.4	1130.4	1128.9	1130.4	1124.5	1124.5	1120.1	1118.6	1126.0
10°	1118.6	1124.5	1121.6	1121.6	1121.6	1118.6	1115.7	1114.2	1109.8	1108.4	1112.8
12.5°	1106.9	1111.3	1109.8	1106.9	1106.9	1106.9	1101.0	1099.6	1093.7	1090.7	1095.2
15°	1092.2	1095.2	1093.7	1092.2	1089.3	1089.3	1083.4	1080.5	1074.6	1068.7	1071.7
17.5°	1070.2	1074.6	1071.7	1070.2	1065.8	1065.8	1059.9	1057.0	1048.2	1042.3	1043.8
20°	1046.7	1048.2	1046.7	1043.8	1039.4	1037.9	1032.0	1026.2	1018.8	1011.5	1010.0
22.5°	1018.8	1020.3	1015.9	1012.9	1008.5	1007.1	999.7	995.3	983.6	974.8	973.3
25°	982.1	983.6	983.6	976.2	973.3	970.4	963.0	955.7	945.4	933.7	929.3
27.5°	938.1	942.5	939.5	932.2	926.3	924.9	917.5	911.6	898.4	888.2	882.3
30°	891.1	889.6	888.2	883.8	874.9	873.5	866.1	858.8	848.5	835.3	828.0
32.5°	830.9	830.9	829.4	825.0	816.2	813.3	807.4	798.6	786.9	776.6	769.2
35°	764.8	766.3	764.8	756.0	750.2	747.2	744.3	734.0	723.7	712.0	706.1
37.5°	695.8	691.4	692.9	685.6	678.2	681.2	672.4	668.0	656.2	647.4	641.5
40°	621.0	623.9	618.0	615.1	610.7	606.3	606.3	599.0	593.1	582.8	579.9
42.5°	547.6	552.0	550.5	547.6	541.7	543.2	535.8	532.9	525.6	521.2	516.7
45°	488.9	488.9	488.9	485.9	484.5	481.5	477.1	472.7	468.3	462.4	459.5
47.5°	431.6	431.6	433.1	430.1	427.2	425.7	422.8	422.8	415.5	409.6	406.6
50°	384.6	384.6	384.6	381.7	378.8	378.8	375.8	372.9	368.5	364.1	361.1
52.5°	342.1	342.1	342.1	339.1	337.6	336.2	334.7	333.2	327.4	324.4	321.5
55°	306.8	305.4	305.4	303.9	300.9	300.9	299.5	296.5	292.1	287.7	286.3
57.5°	271.6	273.1	271.6	271.6	268.6	268.6	265.7	264.2	259.8	256.9	254.0
60°	243.7	243.7	243.7	242.2	239.3	240.8	237.8	236.4	231.9	227.5	224.6
62.5°	215.8	217.3	217.3	215.8	212.9	212.9	211.4	209.9	205.5	201.1	196.7
65°	192.3	192.3	192.3	190.8	189.4	189.4	187.9	186.4	182.0	176.2	171.8
67.5°	170.3	168.8	168.8	168.8	167.4	165.9	164.4	163.0	158.5	154.1	148.3
70°	148.3	148.3	148.3	146.8	143.9	145.3	143.9	142.4	138.0	133.6	129.2
72.5°	127.7	127.7	126.3	124.8	124.8	123.3	123.3	121.8	117.4	111.6	107.2
75°	105.7	105.7	105.7	105.7	102.8	104.2	101.3	99.8	96.9	92.5	88.1
77.5°	86.6	86.6	86.6	85.1	83.7	83.7	82.2	80.7	76.3	73.4	67.5
80°	67.5	67.5	67.5	67.5	66.1	64.6	63.1	61.7	58.7	54.3	49.9
82.5°	49.9	49.9	48.4	48.4	48.4	47.0	45.5	44.0	41.1	38.2	35.2
85°	27.9	29.4	29.4	26.4	27.9	26.4	26.4	23.5	23.5	20.6	19.1
87.5°	10.3	8.8	8.8	8.8	8.8	8.8	8.8	7.3	7.3	7.3	5.9
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°	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4
2.5°	1130.4	1128.9	1134.8	1134.8	1126.0	1130.4	1131.9	1128.9	1128.9	1130.4	1126.0
5°	1127.4	1124.5	1130.4	1131.9	1123.0	1127.4	1128.9	1126.0	1127.4	1128.9	1123.0
7.5°	1117.2	1117.2	1121.6	1123.0	1114.2	1118.6	1118.6	1115.7	1117.2	1117.2	1112.8
10°	1106.9	1102.5	1106.9	1106.9	1099.6	1101.0	1104.0	1102.5	1108.4	1115.7	1115.7
12.5°	1087.8	1083.4	1090.7	1090.7	1086.3	1092.2	1099.6	1104.0	1109.8	1112.8	1104.0
15°	1064.3	1065.8	1079.0	1089.3	1084.9	1093.7	1101.0	1098.1	1090.7	1081.9	1068.7
17.5°	1033.5	1029.1	1040.8	1046.7	1040.8	1043.8	1049.6	1043.8	1032.0	1024.7	1007.1
20°	998.3	986.5	986.5	983.6	973.3	973.3	971.8	961.6	957.2	952.8	945.4
22.5°	958.6	945.4	941.0	932.2	923.4	921.9	917.5	907.2	901.4	898.4	889.6
25°	913.1	901.4	894.0	885.2	872.0	869.1	864.7	854.4	851.5	847.1	839.7
27.5°	866.1	851.5	841.2	832.4	820.6	819.2	810.4	803.0	797.1	794.2	788.3
30°	811.8	795.7	788.3	776.6	767.8	764.8	757.5	747.2	742.8	739.9	735.5
32.5°	751.6	738.4	731.1	720.8	709.1	710.5	701.7	692.9	690.0	687.0	682.6
35°	692.9	679.7	670.9	662.1	654.7	651.8	645.9	638.6	634.2	632.7	629.8
37.5°	628.3	618.0	610.7	601.9	596.0	593.1	590.1	582.8	579.9	579.9	574.0
40°	565.2	556.4	550.5	546.1	538.8	537.3	534.4	530.0	528.5	527.0	522.6
42.5°	507.9	496.2	491.8	488.9	484.5	481.5	480.0	477.1	475.6	474.2	469.8
45°	453.6	443.3	438.9	436.0	431.6	430.1	428.7	424.3	421.3	418.4	416.9
47.5°	400.8	393.4	392.0	384.6	381.7	378.8	375.8	372.9	371.4	369.9	364.1
50°	355.3	350.9	343.5	339.1	336.2	334.7	328.8	324.4	323.0	321.5	317.1
52.5°	314.2	308.3	303.9	296.5	295.1	292.1	289.2	283.3	280.4	278.9	274.5
55°	277.5	273.1	267.2	261.3	256.9	255.4	251.0	245.2	242.2	239.3	236.4
57.5°	246.6	239.3	233.4	227.5	224.6	220.2	215.8	212.9	208.5	204.1	199.7
60°	217.3	211.4	204.1	198.2	195.2	192.3	186.4	182.0	177.6	173.2	168.8
62.5°	189.4	183.5	176.2	170.3	167.4	164.4	158.5	154.1	149.7	145.3	139.5
65°	164.4	158.5	152.7	146.8	143.9	140.9	135.1	129.2	124.8	120.4	114.5
67.5°	143.9	136.5	130.7	124.8	121.8	118.9	113.0	108.6	102.8	98.4	92.5
70°	121.8	116.0	111.6	105.7	102.8	99.8	94.0	88.1	83.7	79.3	73.4
72.5°	102.8	95.4	91.0	85.1	82.2	80.7	74.9	70.5	66.1	60.2	55.8
75°	82.2	76.3	70.5	66.1	63.1	61.7	55.8	51.4	47.0	42.6	38.2
77.5°	63.1	58.7	52.8	48.4	45.5	44.0	38.2	33.8	29.4	26.4	22.0
80°	47.0	41.1	38.2	33.8	32.3	29.4	26.4	22.0	19.1	14.7	11.7
82.5°	32.3	27.9	25.0	22.0	20.6	19.1	16.1	13.2	10.3	8.8	7.3
85°	17.6	14.7	13.2	11.7	10.3	10.3	8.8	7.3	5.9	4.4	2.9
87.5°	5.9	4.4	4.4	4.4	4.4	2.9	2.9	2.9	1.5	1.5	1.5
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°	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4
2.5°	1128.9	1128.9	1128.9	1127.4	1127.4	1127.4	1126.0	1131.9	1126.0	1124.5	1128.9
5°	1127.4	1124.5	1124.5	1124.5	1124.5	1123.0	1121.6	1124.5	1120.1	1118.6	1118.6
7.5°	1118.6	1117.2	1117.2	1115.7	1114.2	1112.8	1111.3	1112.8	1108.4	1106.9	1106.9
10°	1120.1	1117.2	1117.2	1112.8	1109.8	1105.4	1101.0	1102.5	1096.6	1092.2	1092.2
12.5°	1102.5	1095.2	1090.7	1086.3	1083.4	1081.9	1076.1	1079.0	1073.1	1071.7	1071.7
15°	1062.9	1054.0	1046.7	1043.8	1043.8	1040.8	1036.4	1042.3	1039.4	1040.8	1048.2
17.5°	1001.2	996.8	992.4	990.9	992.4	995.3	998.3	1007.1	1007.1	1011.5	1018.8
20°	946.9	943.9	946.9	946.9	948.3	954.2	960.1	967.4	970.4	974.8	985.0
22.5°	894.0	894.0	897.0	901.4	899.9	910.2	911.6	924.9	924.9	933.7	942.5
25°	842.6	842.6	845.6	847.1	850.0	855.9	861.7	872.0	874.9	883.8	891.1
27.5°	792.7	791.3	791.3	792.7	795.7	803.0	805.9	817.7	822.1	828.0	835.3
30°	737.0	735.5	738.4	741.4	739.9	747.2	751.6	760.4	763.4	769.2	775.1
32.5°	684.1	684.1	684.1	687.0	687.0	692.9	692.9	703.2	703.2	707.6	713.5
35°	629.8	629.8	631.3	632.7	634.2	635.7	637.1	643.0	644.5	645.9	648.9
37.5°	578.4	576.9	578.4	578.4	575.5	581.3	581.3	587.2	582.8	587.2	588.7
40°	525.6	525.6	524.1	524.1	524.1	527.0	524.1	528.5	525.6	528.5	527.0
42.5°	471.2	471.2	468.3	471.2	469.8	469.8	469.8	472.7	468.3	471.2	472.7
45°	416.9	415.5	415.5	414.0	414.0	414.0	415.5	415.5	414.0	416.9	416.9
47.5°	364.1	362.6	362.6	362.6	362.6	364.1	359.7	362.6	359.7	359.7	359.7
50°	318.6	317.1	315.6	314.2	312.7	312.7	311.2	311.2	308.3	306.8	305.4
52.5°	274.5	273.1	270.1	270.1	268.6	267.2	262.8	262.8	258.4	256.9	256.9
55°	234.9	230.5	229.0	226.1	226.1	223.1	220.2	217.3	212.9	209.9	209.9
57.5°	198.2	193.8	190.8	189.4	187.9	185.0	179.1	177.6	171.8	170.3	168.8
60°	165.9	161.5	157.1	154.1	152.7	148.3	142.4	139.5	136.5	132.1	127.7
62.5°	135.1	130.7	124.8	123.3	120.4	116.0	111.6	107.2	104.2	99.8	96.9
65°	108.6	104.2	99.8	96.9	94.0	89.5	85.1	80.7	77.8	76.3	74.9
67.5°	88.1	82.2	77.8	76.3	73.4	70.5	66.1	64.6	61.7	61.7	61.7
70°	69.0	64.6	60.2	58.7	57.3	54.3	51.4	51.4	51.4	51.4	51.4
72.5°	51.4	48.4	44.0	42.6	41.1	39.6	36.7	38.2	36.7	36.7	36.7
75°	32.3	29.4	26.4	25.0	23.5	22.0	20.6	19.1	17.6	16.1	16.1
77.5°	17.6	14.7	13.2	11.7	11.7	10.3	8.8	8.8	7.3	7.3	7.3
80°	10.3	8.8	7.3	5.9	5.9	4.4	4.4	4.4	4.4	2.9	2.9
82.5°	5.9	4.4	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5	1.5
85°	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P252387

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4
2.5°	1121.6	1126.0	1121.6	1126.0	1126.0	1126.0	1126.0	1121.6
5°	1114.2	1117.2	1112.8	1115.7	1117.2	1115.7	1115.7	1111.3
7.5°	1101.0	1104.0	1099.6	1104.0	1105.4	1104.0	1102.5	1099.6
10°	1087.8	1089.3	1084.9	1087.8	1090.7	1090.7	1089.3	1084.9
12.5°	1067.3	1071.7	1067.3	1070.2	1073.1	1074.6	1074.6	1070.2
15°	1043.8	1051.1	1048.2	1052.6	1057.0	1058.5	1058.5	1057.0
17.5°	1020.3	1027.6	1023.2	1030.6	1035.0	1037.9	1039.4	1036.4
20°	986.5	995.3	992.4	998.3	1004.1	1008.5	1008.5	1004.1
22.5°	942.5	954.2	952.8	957.2	964.5	966.0	968.9	966.0
25°	894.0	902.8	901.4	905.8	914.6	914.6	916.1	916.1
27.5°	838.2	847.1	845.6	848.5	854.4	855.9	857.3	854.4
30°	778.1	782.5	782.5	786.9	791.3	792.7	792.7	788.3
32.5°	712.0	717.9	720.8	719.3	723.7	726.7	725.2	725.2
35°	651.8	653.3	654.7	656.2	657.7	660.6	657.7	656.2
37.5°	587.2	591.6	588.7	591.6	594.6	593.1	591.6	591.6
40°	528.5	530.0	527.0	530.0	531.4	531.4	531.4	528.5
42.5°	469.8	472.7	469.8	472.7	472.7	472.7	472.7	471.2
45°	411.0	414.0	414.0	415.5	415.5	414.0	414.0	414.0
47.5°	356.7	359.7	356.7	359.7	361.1	358.2	358.2	358.2
50°	305.4	303.9	303.9	305.4	305.4	305.4	305.4	303.9
52.5°	252.5	254.0	254.0	254.0	255.4	254.0	255.4	255.4
55°	207.0	207.0	207.0	208.5	207.0	207.0	208.5	209.9
57.5°	165.9	164.4	163.0	163.0	164.4	163.0	163.0	163.0
60°	127.7	126.3	124.8	124.8	124.8	124.8	124.8	123.3
62.5°	95.4	95.4	95.4	96.9	96.9	96.9	96.9	98.4
65°	76.3	76.3	76.3	76.3	76.3	76.3	76.3	77.8
67.5°	61.7	61.7	61.7	63.1	63.1	63.1	63.1	63.1
70°	51.4	51.4	52.8	51.4	52.8	52.8	52.8	52.8
72.5°	35.2	35.2	35.2	35.2	35.2	33.8	35.2	33.8
75°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	13.2
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
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)