

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: P252489

Luminaire Tested: **LD6B30D010 EU6B30509050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252489
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 EU6B30509050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2187.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

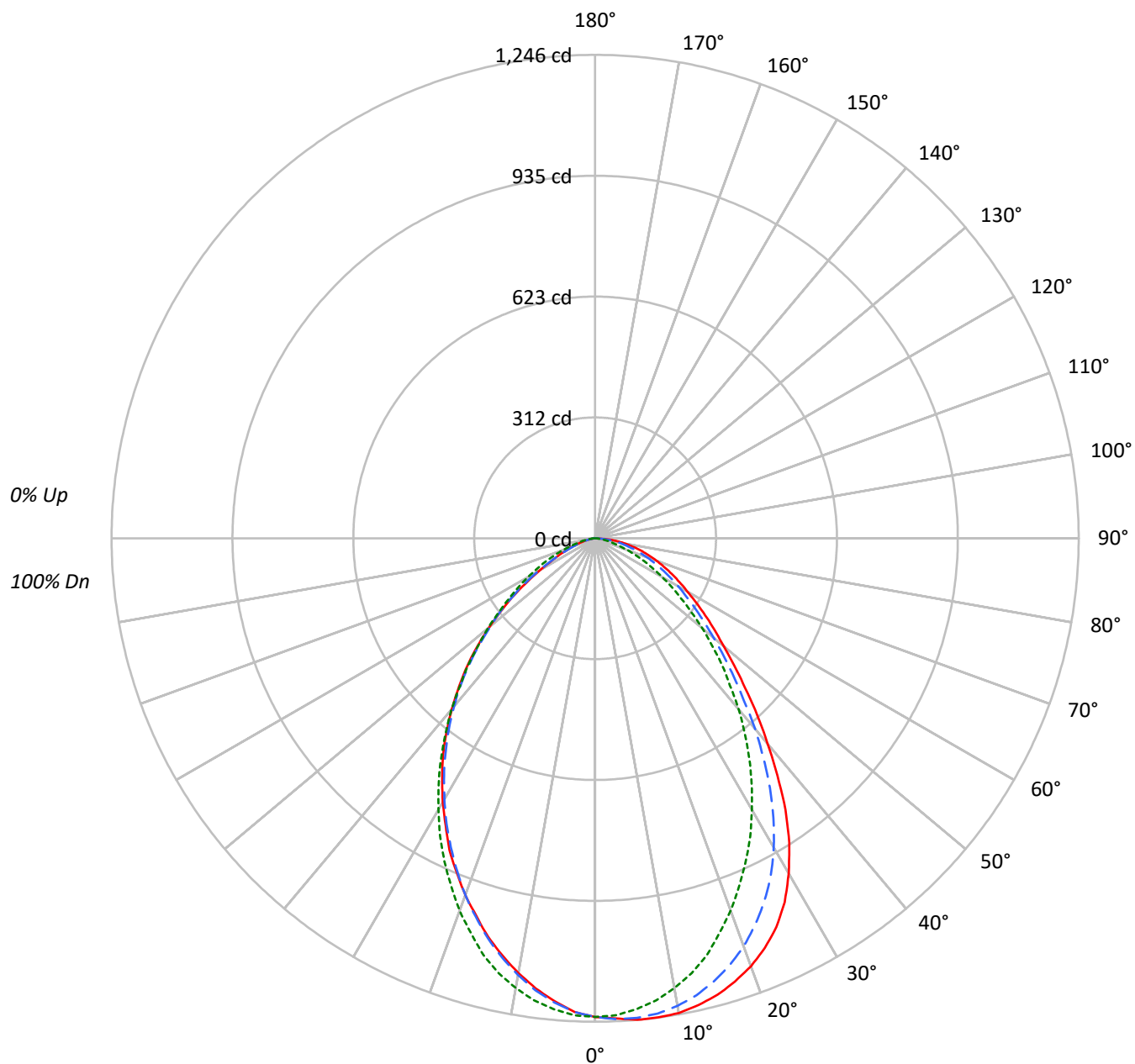
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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	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°	80494	80494	80494
5°	81587	79793	78444
10°	82305	77986	75376
15°	82293	75114	71872
20°	81494	70906	67935
25°	79565	66118	63894
30°	75130	60802	59122
35°	68104	55138	54453
40°	58815	49038	48894
45°	50432	42691	43004
50°	43826	36529	36001
55°	39367	30790	28845
60°	35778	25940	21242
65°	33591	21427	15607
70°	32027	16672	11445
75°	30677	12099	7764
80°	28967	8378	5147
85°	25675	5165	2545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	5.3
10°-20°	316.1	14.5
20°-30°	438.8	20.1
30°-40°	454.5	20.8
40°-50°	373.5	17.1
50°-60°	256.7	11.7
60°-70°	147.6	6.7
70°-80°	67.8	3.1
80°-90°	16.5	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°	870.3	39.8
0°-40°	1324.9	60.6
0°-60°	1955.1	89.4
0°-90°	2187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1234	1234	1234	1234	1234	
5°	1246	1241	1218	1201	1198	119
15°	1218	1182	1112	1068	1064	343
25°	1105	1032	918	879	888	506
35°	855	785	692	672	684	530
45°	547	506	463	458	466	426
55°	346	314	271	255	254	311
65°	218	190	139	98	101	217
75°	122	96	48	31	31	129
85°	34	24	7	3	3	38
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°	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8
2.5°	1238.9	1249.2	1242.4	1240.6	1244.1	1244.1	1244.1	1238.9	1242.4	1237.2	1240.6
5°	1245.8	1254.4	1247.5	1244.1	1247.5	1249.2	1244.1	1240.6	1245.8	1238.9	1240.6
7.5°	1245.8	1254.4	1247.5	1245.8	1247.5	1247.5	1245.8	1238.9	1242.4	1235.5	1235.5
10°	1242.4	1249.2	1242.4	1238.9	1240.6	1238.9	1238.9	1230.4	1232.1	1223.5	1223.5
12.5°	1232.1	1240.6	1232.1	1228.7	1228.7	1228.7	1223.5	1216.7	1218.4	1208.1	1206.4
15°	1218.4	1225.2	1216.7	1213.2	1213.2	1211.5	1208.1	1197.8	1197.8	1187.5	1182.4
17.5°	1197.8	1204.7	1197.8	1192.7	1191.0	1187.5	1184.1	1173.8	1170.4	1158.4	1153.3
20°	1173.8	1179.0	1172.1	1167.0	1163.5	1160.1	1153.3	1143.0	1139.5	1127.5	1119.0
22.5°	1143.0	1149.8	1139.5	1134.4	1131.0	1125.8	1119.0	1108.7	1103.6	1088.1	1077.9
25°	1105.3	1108.7	1100.1	1095.0	1088.1	1084.7	1079.6	1065.9	1060.7	1043.6	1031.6
27.5°	1057.3	1060.7	1050.4	1047.0	1038.4	1035.0	1028.2	1016.2	1009.3	992.2	980.2
30°	997.3	1000.7	993.9	988.7	981.9	975.0	969.9	957.9	947.6	930.5	920.2
32.5°	930.5	935.6	928.8	921.9	909.9	911.6	903.1	891.1	882.5	867.1	855.1
35°	855.1	858.5	849.9	848.2	841.4	834.5	826.0	817.4	812.2	795.1	784.8
37.5°	771.1	779.7	771.1	764.3	760.8	755.7	750.6	738.6	735.1	724.9	711.1
40°	690.6	695.7	690.6	683.7	678.6	678.6	671.7	664.9	656.3	646.0	640.9
42.5°	618.6	615.2	613.5	610.0	603.2	601.5	599.8	591.2	586.1	575.8	567.2
45°	546.6	548.4	544.9	543.2	538.1	534.6	531.2	524.4	522.6	512.4	505.5
47.5°	486.7	484.9	481.5	481.5	478.1	474.7	471.2	466.1	464.4	455.8	449.0
50°	431.8	433.5	431.8	430.1	425.0	423.3	419.8	416.4	413.0	404.4	397.6
52.5°	387.3	385.6	383.8	383.8	378.7	377.0	373.6	370.1	366.7	358.1	353.0
55°	346.1	346.1	344.4	342.7	337.6	335.9	334.2	330.7	325.6	318.7	313.6
57.5°	308.4	308.4	306.7	305.0	301.6	301.6	298.2	294.7	291.3	284.5	277.6
60°	274.2	275.9	274.2	272.5	269.0	269.0	267.3	262.2	260.5	251.9	246.8
62.5°	245.0	245.0	245.0	243.3	241.6	238.2	238.2	233.0	229.6	224.5	217.6
65°	217.6	217.6	217.6	215.9	212.5	210.8	209.1	205.6	202.2	197.1	190.2
67.5°	191.9	191.9	191.9	190.2	186.8	185.1	183.4	181.6	176.5	171.4	164.5
70°	167.9	167.9	166.2	164.5	162.8	161.1	159.4	155.9	152.5	145.7	140.5
72.5°	143.9	143.9	143.9	140.5	138.8	138.8	135.4	133.7	130.2	123.4	118.2
75°	121.7	120.0	120.0	118.2	116.5	114.8	113.1	111.4	106.2	102.8	96.0
77.5°	99.4	99.4	97.7	96.0	96.0	94.2	92.5	89.1	87.4	82.3	77.1
80°	77.1	77.1	77.1	77.1	75.4	73.7	73.7	70.3	68.5	63.4	60.0
82.5°	58.3	56.5	56.5	56.5	54.8	53.1	53.1	51.4	49.7	46.3	42.8
85°	34.3	32.6	32.6	32.6	30.8	30.8	29.1	29.1	27.4	24.0	24.0
87.5°	10.3	10.3	12.0	12.0	10.3	10.3	10.3	10.3	10.3	8.6	8.6
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°	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8
2.5°	1237.2	1242.4	1235.5	1233.8	1240.6	1237.2	1235.5	1232.1	1233.8	1230.4	1225.2
5°	1235.5	1242.4	1233.8	1228.7	1237.2	1232.1	1228.7	1225.2	1225.2	1218.4	1214.9
7.5°	1230.4	1233.8	1225.2	1220.1	1225.2	1220.1	1216.7	1211.5	1209.8	1201.2	1196.1
10°	1216.7	1220.1	1209.8	1202.9	1208.1	1201.2	1196.1	1191.0	1187.5	1177.2	1170.4
12.5°	1197.8	1199.5	1187.5	1179.0	1182.4	1177.2	1168.7	1161.8	1158.4	1148.1	1139.5
15°	1172.1	1173.8	1160.1	1148.1	1151.5	1144.7	1134.4	1127.5	1122.4	1112.1	1100.1
17.5°	1141.3	1139.5	1124.1	1112.1	1113.8	1105.3	1095.0	1084.7	1077.9	1065.9	1057.3
20°	1107.0	1101.8	1084.7	1071.0	1072.7	1062.4	1050.4	1040.2	1031.6	1021.3	1009.3
22.5°	1064.1	1057.3	1041.9	1024.7	1026.4	1017.9	1000.7	992.2	983.6	969.9	959.6
25°	1017.9	1007.6	992.2	975.0	975.0	964.8	951.0	940.8	932.2	918.5	906.5
27.5°	963.0	957.9	937.3	923.6	921.9	911.6	899.6	887.6	877.4	865.4	853.4
30°	903.1	894.5	879.1	863.7	860.2	851.7	839.7	826.0	819.1	807.1	796.8
32.5°	839.7	831.1	814.0	798.5	796.8	790.0	779.7	766.0	759.1	750.6	743.7
35°	767.7	764.3	747.1	735.1	735.1	728.3	718.0	706.0	700.9	692.3	683.7
37.5°	699.1	694.0	678.6	668.3	668.3	659.7	649.5	644.3	639.2	632.3	627.2
40°	627.2	623.8	611.8	601.5	603.2	596.3	589.5	582.6	579.2	575.8	570.6
42.5°	560.3	556.9	548.4	539.8	539.8	534.6	527.8	522.6	519.2	514.1	512.4
45°	500.4	495.2	488.4	479.8	479.8	474.7	471.2	467.8	466.1	462.7	457.5
47.5°	442.1	438.7	431.8	423.3	423.3	423.3	416.4	411.3	411.3	407.8	406.1
50°	392.4	387.3	382.1	375.3	375.3	371.9	366.7	361.6	361.6	359.9	356.4
52.5°	346.1	342.7	335.9	329.0	329.0	325.6	320.4	318.7	317.0	311.9	310.2
55°	306.7	303.3	298.2	289.6	287.9	286.2	281.0	277.6	275.9	270.7	270.7
57.5°	270.7	267.3	258.8	253.6	251.9	248.5	243.3	239.9	238.2	234.8	231.3
60°	239.9	234.8	227.9	221.1	219.3	215.9	210.8	207.3	205.6	198.8	195.4
62.5°	210.8	205.6	198.8	191.9	190.2	186.8	179.9	176.5	173.1	166.2	162.8
65°	183.4	178.2	171.4	164.5	161.1	159.4	152.5	147.4	143.9	138.8	131.9
67.5°	157.7	152.5	145.7	137.1	137.1	131.9	126.8	121.7	116.5	111.4	106.2
70°	133.7	128.5	121.7	114.8	113.1	109.7	104.5	97.7	94.2	87.4	82.3
72.5°	111.4	106.2	99.4	92.5	90.8	87.4	82.3	75.4	70.3	65.1	60.0
75°	90.8	85.7	78.8	73.7	72.0	68.5	63.4	56.5	51.4	48.0	42.8
77.5°	72.0	66.8	61.7	56.5	54.8	51.4	46.3	42.8	37.7	34.3	29.1
80°	54.8	51.4	46.3	42.8	41.1	37.7	34.3	29.1	25.7	22.3	20.6
82.5°	39.4	36.0	32.6	27.4	27.4	24.0	22.3	18.8	15.4	13.7	12.0
85°	22.3	18.8	17.1	15.4	13.7	13.7	12.0	10.3	8.6	6.9	6.9
87.5°	6.9	6.9	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8
2.5°	1225.2	1226.9	1223.5	1226.9	1223.5	1225.2	1221.8	1225.2	1221.8	1225.2	1218.4
5°	1213.2	1213.2	1208.1	1211.5	1208.1	1209.8	1202.9	1204.7	1201.2	1204.7	1197.8
7.5°	1192.7	1194.4	1185.8	1189.2	1184.1	1184.1	1179.0	1180.7	1175.5	1177.2	1172.1
10°	1168.7	1167.0	1158.4	1161.8	1155.0	1155.0	1149.8	1149.8	1143.0	1144.7	1137.8
12.5°	1134.4	1132.7	1122.4	1125.8	1119.0	1119.0	1113.8	1113.8	1107.0	1110.4	1103.6
15°	1095.0	1093.3	1083.0	1084.7	1077.9	1077.9	1071.0	1072.7	1067.6	1071.0	1064.1
17.5°	1050.4	1048.7	1038.4	1040.2	1031.6	1033.3	1028.2	1026.4	1023.0	1024.7	1019.6
20°	1004.2	1000.7	990.5	992.2	988.7	983.6	980.2	981.9	978.5	981.9	976.8
22.5°	956.2	949.3	940.8	940.8	937.3	937.3	932.2	935.6	928.8	933.9	930.5
25°	901.4	896.2	889.4	892.8	885.9	885.9	880.8	882.5	879.1	882.5	879.1
27.5°	848.2	844.8	834.5	838.0	832.8	834.5	829.4	831.1	829.4	832.8	829.4
30°	791.7	790.0	783.1	783.1	781.4	779.7	778.0	778.0	776.3	781.4	778.0
32.5°	738.6	733.4	726.6	731.7	723.1	728.3	724.9	728.3	724.9	728.3	726.6
35°	683.7	682.0	673.4	675.2	673.4	673.4	671.7	671.7	671.7	676.9	676.9
37.5°	625.5	623.8	618.6	620.3	616.9	615.2	615.2	618.6	618.6	622.0	622.0
40°	568.9	570.6	565.5	565.5	563.8	563.8	563.8	567.2	565.5	568.9	567.2
42.5°	512.4	512.4	507.2	508.9	507.2	508.9	508.9	512.4	512.4	514.1	512.4
45°	459.2	459.2	457.5	459.2	455.8	457.5	455.8	459.2	457.5	459.2	459.2
47.5°	406.1	406.1	406.1	404.4	404.4	404.4	404.4	404.4	402.7	406.1	404.4
50°	356.4	358.1	356.4	356.4	354.7	356.4	354.7	354.7	351.3	353.0	353.0
52.5°	311.9	311.9	308.4	308.4	308.4	306.7	306.7	306.7	305.0	305.0	301.6
55°	269.0	269.0	265.6	265.6	263.9	262.2	260.5	260.5	255.3	255.3	250.2
57.5°	229.6	227.9	222.8	222.8	219.3	217.6	215.9	214.2	210.8	207.3	205.6
60°	193.6	190.2	186.8	185.1	181.6	178.2	174.8	171.4	167.9	166.2	164.5
62.5°	159.4	154.2	150.8	149.1	145.7	140.5	137.1	133.7	130.2	128.5	125.1
65°	128.5	123.4	118.2	116.5	113.1	109.7	104.5	101.1	97.7	96.0	96.0
67.5°	101.1	96.0	89.1	89.1	85.7	82.3	78.8	75.4	73.7	75.4	75.4
70°	75.4	72.0	66.8	65.1	61.7	58.3	56.5	56.5	56.5	58.3	56.5
72.5°	56.5	51.4	48.0	46.3	44.6	42.8	42.8	42.8	41.1	42.8	42.8
75°	39.4	36.0	32.6	32.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8
77.5°	27.4	24.0	22.3	22.3	22.3	20.6	20.6	20.6	20.6	20.6	20.6
80°	17.1	17.1	15.4	15.4	13.7	13.7	13.7	13.7	13.7	13.7	13.7
82.5°	10.3	10.3	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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: P252489

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8	1233.8
2.5°	1218.4	1223.5	1216.7	1221.8	1220.1	1218.4	1214.9	1221.8
5°	1197.8	1199.5	1192.7	1199.5	1197.8	1194.4	1191.0	1197.8
7.5°	1168.7	1173.8	1165.2	1172.1	1170.4	1167.0	1163.5	1170.4
10°	1136.1	1141.3	1134.4	1139.5	1139.5	1136.1	1131.0	1137.8
12.5°	1100.1	1103.6	1096.7	1103.6	1101.8	1098.4	1096.7	1101.8
15°	1060.7	1065.9	1059.0	1064.1	1062.4	1060.7	1059.0	1064.1
17.5°	1017.9	1023.0	1017.9	1023.0	1023.0	1017.9	1016.2	1019.6
20°	975.0	978.5	973.3	978.5	976.8	976.8	973.3	978.5
22.5°	927.1	932.2	928.8	932.2	930.5	930.5	928.8	932.2
25°	879.1	884.2	879.1	884.2	882.5	882.5	879.1	887.6
27.5°	831.1	834.5	829.4	836.2	834.5	831.1	832.8	834.5
30°	779.7	783.1	779.7	784.8	784.8	784.8	781.4	784.8
32.5°	728.3	733.4	728.3	733.4	731.7	731.7	730.0	733.4
35°	676.9	678.6	675.2	680.3	680.3	682.0	678.6	683.7
37.5°	623.8	625.5	623.8	625.5	628.9	623.8	627.2	628.9
40°	568.9	572.3	570.6	572.3	572.3	574.1	572.3	574.1
42.5°	514.1	517.5	514.1	519.2	517.5	517.5	519.2	519.2
45°	457.5	462.7	459.2	462.7	464.4	462.7	462.7	466.1
47.5°	404.4	407.8	406.1	407.8	407.8	407.8	407.8	411.3
50°	351.3	353.0	353.0	354.7	354.7	356.4	353.0	354.7
52.5°	298.2	301.6	301.6	301.6	299.9	301.6	301.6	301.6
55°	250.2	251.9	248.5	251.9	251.9	250.2	250.2	253.6
57.5°	203.9	203.9	203.9	203.9	203.9	202.2	203.9	203.9
60°	161.1	162.8	161.1	161.1	161.1	161.1	159.4	162.8
62.5°	125.1	125.1	123.4	125.1	125.1	125.1	126.8	126.8
65°	97.7	99.4	97.7	99.4	99.4	99.4	99.4	101.1
67.5°	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
70°	58.3	58.3	58.3	60.0	58.3	58.3	58.3	60.0
72.5°	42.8	42.8	42.8	42.8	42.8	42.8	44.6	44.6
75°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
77.5°	20.6	20.6	20.6	22.3	20.6	22.3	20.6	20.6
80°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
82.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)