

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: P252383

Luminaire Tested: **LD6B30D010 EU6B30509035 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252383  
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 EU6B30509035 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2315.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

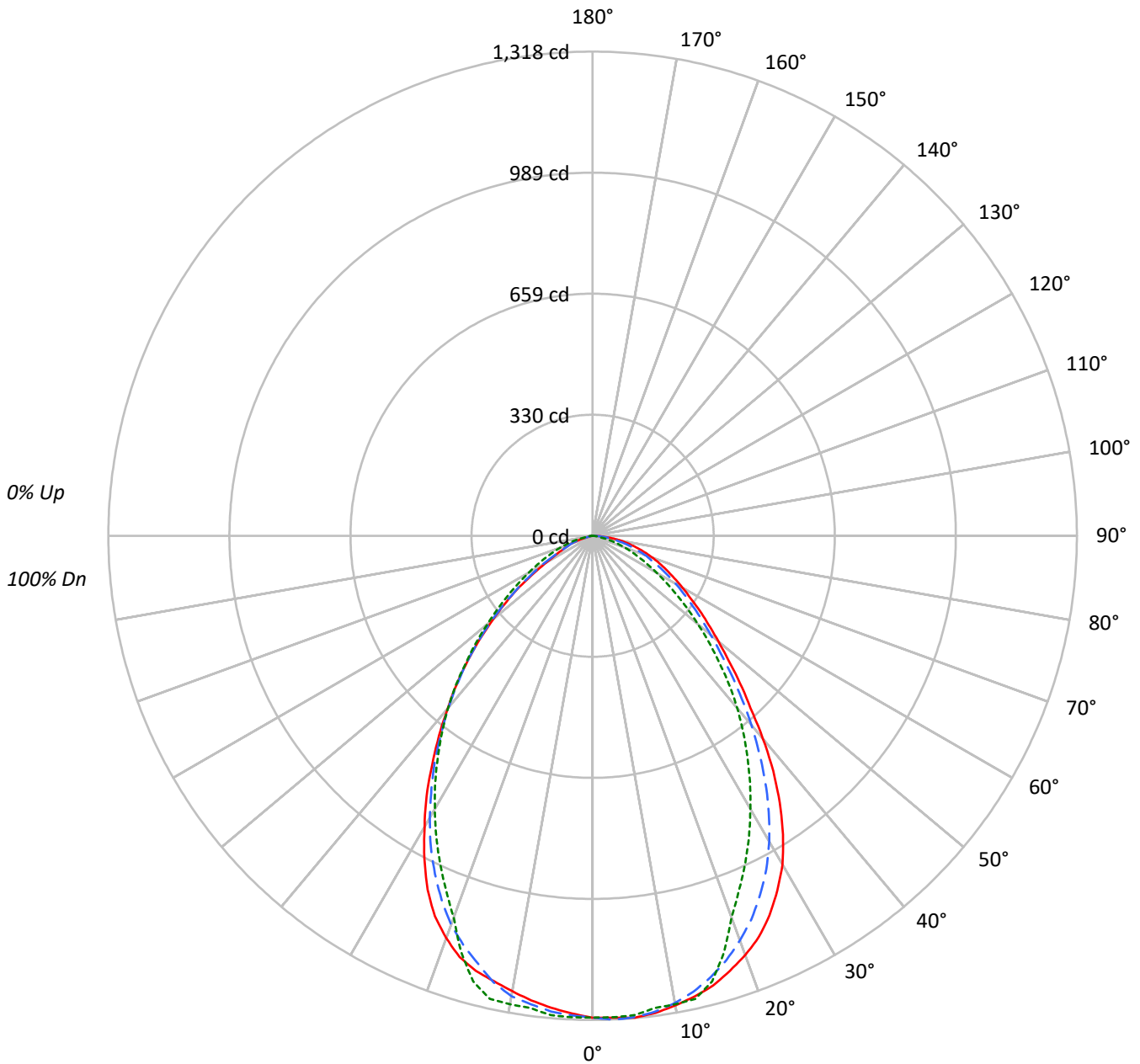
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	85576	85576	85576
5°	86237	85792	84456
10°	85995	85770	83398
15°	85603	84799	82840
20°	84327	76759	80897
25°	82034	70754	76520
30°	77895	64681	68915
35°	70684	58475	60649
40°	61370	52087	52232
45°	52341	44794	44324
50°	45298	37868	35788
55°	40493	31587	27708
60°	36900	26227	18672
65°	34456	21566	13940
70°	32828	17549	11693
75°	30929	12452	3857
80°	29455	6387	1277
85°	24253	3818	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.9	5.4
10°-20°	346.4	15.0
20°-30°	478.2	20.7
30°-40°	486.6	21.0
40°-50°	391.1	16.9
50°-60°	260.0	11.2
60°-70°	148.2	6.4
70°-80°	66.6	2.9
80°-90°	14.0	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°	948.5	41.0
0°-40°	1435.1	62.0
0°-60°	2086.2	90.1
0°-90°	2315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1312	1312	1312	1312	1312	
5°	1317	1315	1310	1300	1290	125
15°	1267	1244	1256	1206	1226	357
25°	1140	1078	983	1015	1063	522
35°	888	819	734	748	762	552
45°	567	533	486	480	480	440
55°	356	332	278	247	244	320
65°	223	199	140	90	90	222
75°	123	102	49	20	15	131
85°	32	22	5	2	0	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°	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7
2.5°	1313.4	1320.2	1318.5	1316.8	1318.5	1316.8	1313.4	1313.4	1310.0	1310.0	1318.5
5°	1316.8	1320.2	1318.5	1316.8	1316.8	1318.5	1311.7	1311.7	1308.3	1306.6	1315.1
7.5°	1310.0	1315.1	1311.7	1311.7	1310.0	1311.7	1304.9	1304.9	1299.8	1298.1	1306.6
10°	1298.1	1304.9	1301.5	1301.5	1301.5	1298.1	1294.7	1293.0	1287.8	1286.1	1291.3
12.5°	1284.4	1289.6	1287.8	1284.4	1284.4	1284.4	1277.6	1275.9	1269.1	1265.7	1270.8
15°	1267.4	1270.8	1269.1	1267.4	1264.0	1264.0	1257.2	1253.8	1247.0	1240.2	1243.6
17.5°	1241.9	1247.0	1243.6	1241.9	1236.7	1236.7	1229.9	1226.5	1216.3	1209.5	1211.2
20°	1214.6	1216.3	1214.6	1211.2	1206.1	1204.4	1197.6	1190.7	1182.2	1173.7	1172.0
22.5°	1182.2	1183.9	1178.8	1175.4	1170.3	1168.6	1160.1	1155.0	1141.3	1131.1	1129.4
25°	1139.6	1141.3	1141.3	1132.8	1129.4	1126.0	1117.5	1109.0	1097.1	1083.4	1078.3
27.5°	1088.5	1093.6	1090.2	1081.7	1074.9	1073.2	1064.7	1057.9	1042.5	1030.6	1023.8
30°	1034.0	1032.3	1030.6	1025.5	1015.3	1013.6	1005.1	996.6	984.6	969.3	960.8
32.5°	964.2	964.2	962.5	957.4	947.1	943.7	936.9	926.7	913.1	901.2	892.6
35°	887.5	889.2	887.5	877.3	870.5	867.1	863.7	851.8	839.8	826.2	819.4
37.5°	807.5	802.4	804.1	795.5	787.0	790.4	780.2	775.1	761.5	751.2	744.4
40°	720.6	724.0	717.2	713.8	708.7	703.5	703.5	695.0	688.2	676.3	672.9
42.5°	635.4	640.5	638.8	635.4	628.6	630.3	621.8	618.4	609.9	604.7	599.6
45°	567.3	567.3	567.3	563.9	562.2	558.7	553.6	548.5	543.4	536.6	533.2
47.5°	500.8	500.8	502.5	499.1	495.7	494.0	490.6	490.6	482.1	475.3	471.9
50°	446.3	446.3	446.3	442.9	439.5	439.5	436.1	432.7	427.6	422.5	419.1
52.5°	396.9	396.9	396.9	393.5	391.8	390.1	388.4	386.7	379.9	376.5	373.1
55°	356.0	354.3	354.3	352.6	349.2	349.2	347.5	344.1	339.0	333.9	332.2
57.5°	315.1	316.9	315.1	315.1	311.7	311.7	308.3	306.6	301.5	298.1	294.7
60°	282.8	282.8	282.8	281.1	277.7	279.4	276.0	274.3	269.2	264.0	260.6
62.5°	250.4	252.1	252.1	250.4	247.0	247.0	245.3	243.6	238.5	233.4	228.3
65°	223.2	223.2	223.2	221.5	219.8	219.8	218.0	216.3	211.2	204.4	199.3
67.5°	197.6	195.9	195.9	195.9	194.2	192.5	190.8	189.1	184.0	178.9	172.1
70°	172.1	172.1	172.1	170.4	166.9	168.6	166.9	165.2	160.1	155.0	149.9
72.5°	148.2	148.2	146.5	144.8	144.8	143.1	143.1	141.4	136.3	129.5	124.4
75°	122.7	122.7	122.7	122.7	119.2	120.9	117.5	115.8	112.4	107.3	102.2
77.5°	100.5	100.5	100.5	98.8	97.1	97.1	95.4	93.7	88.6	85.2	78.4
80°	78.4	78.4	78.4	78.4	76.7	75.0	73.3	71.5	68.1	63.0	57.9
82.5°	57.9	57.9	56.2	56.2	56.2	54.5	52.8	51.1	47.7	44.3	40.9
85°	32.4	34.1	34.1	30.7	32.4	30.7	30.7	27.3	27.3	23.8	22.1
87.5°	11.9	10.2	10.2	10.2	10.2	10.2	10.2	8.5	8.5	8.5	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7
2.5°	1311.7	1310.0	1316.8	1316.8	1306.6	1311.7	1313.4	1310.0	1310.0	1311.7	1306.6
5°	1308.3	1304.9	1311.7	1313.4	1303.2	1308.3	1310.0	1306.6	1308.3	1310.0	1303.2
7.5°	1296.4	1296.4	1301.5	1303.2	1293.0	1298.1	1298.1	1294.7	1296.4	1296.4	1291.3
10°	1284.4	1279.3	1284.4	1284.4	1275.9	1277.6	1281.0	1279.3	1286.1	1294.7	1294.7
12.5°	1262.3	1257.2	1265.7	1265.7	1260.6	1267.4	1275.9	1281.0	1287.8	1291.3	1281.0
15°	1235.0	1236.7	1252.1	1264.0	1258.9	1269.1	1277.6	1274.2	1265.7	1255.5	1240.2
17.5°	1199.3	1194.2	1207.8	1214.6	1207.8	1211.2	1218.0	1211.2	1197.6	1189.0	1168.6
20°	1158.4	1144.8	1144.8	1141.3	1129.4	1129.4	1127.7	1115.8	1110.7	1105.6	1097.1
22.5°	1112.4	1097.1	1091.9	1081.7	1071.5	1069.8	1064.7	1052.8	1046.0	1042.5	1032.3
25°	1059.6	1046.0	1037.4	1027.2	1011.9	1008.5	1003.4	991.4	988.0	982.9	974.4
27.5°	1005.1	988.0	976.1	965.9	952.3	950.6	940.3	931.8	925.0	921.6	914.8
30°	942.0	923.3	914.8	901.2	890.9	887.5	879.0	867.1	862.0	858.6	853.5
32.5°	872.2	856.9	848.3	836.4	822.8	824.5	814.3	804.1	800.6	797.2	792.1
35°	804.1	788.7	778.5	768.3	759.8	756.4	749.5	741.0	735.9	734.2	730.8
37.5°	729.1	717.2	708.7	698.4	691.6	688.2	684.8	676.3	672.9	672.9	666.1
40°	655.8	645.6	638.8	633.7	625.2	623.5	620.1	615.0	613.3	611.6	606.4
42.5°	589.4	575.8	570.7	567.3	562.2	558.7	557.0	553.6	551.9	550.2	545.1
45°	526.4	514.5	509.3	505.9	500.8	499.1	497.4	492.3	488.9	485.5	483.8
47.5°	465.1	456.5	454.8	446.3	442.9	439.5	436.1	432.7	431.0	429.3	422.5
50°	412.2	407.1	398.6	393.5	390.1	388.4	381.6	376.5	374.8	373.1	368.0
52.5°	364.5	357.7	352.6	344.1	342.4	339.0	335.6	328.8	325.4	323.7	318.6
55°	322.0	316.9	310.0	303.2	298.1	296.4	291.3	284.5	281.1	277.7	274.3
57.5°	286.2	277.7	270.9	264.0	260.6	255.5	250.4	247.0	241.9	236.8	231.7
60°	252.1	245.3	236.8	230.0	226.6	223.2	216.3	211.2	206.1	201.0	195.9
62.5°	219.8	212.9	204.4	197.6	194.2	190.8	184.0	178.9	173.8	168.6	161.8
65°	190.8	184.0	177.2	170.4	166.9	163.5	156.7	149.9	144.8	139.7	132.9
67.5°	166.9	158.4	151.6	144.8	141.4	138.0	131.2	126.1	119.2	114.1	107.3
70°	141.4	134.6	129.5	122.7	119.2	115.8	109.0	102.2	97.1	92.0	85.2
72.5°	119.2	110.7	105.6	98.8	95.4	93.7	86.9	81.8	76.7	69.8	64.7
75°	95.4	88.6	81.8	76.7	73.3	71.5	64.7	59.6	54.5	49.4	44.3
77.5°	73.3	68.1	61.3	56.2	52.8	51.1	44.3	39.2	34.1	30.7	25.6
80°	54.5	47.7	44.3	39.2	37.5	34.1	30.7	25.6	22.1	17.0	13.6
82.5°	37.5	32.4	29.0	25.6	23.8	22.1	18.7	15.3	11.9	10.2	8.5
85°	20.4	17.0	15.3	13.6	11.9	11.9	10.2	8.5	6.8	5.1	3.4
87.5°	6.8	5.1	5.1	5.1	5.1	3.4	3.4	3.4	1.7	1.7	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7
2.5°	1310.0	1310.0	1310.0	1308.3	1308.3	1308.3	1306.6	1313.4	1306.6	1304.9	1310.0
5°	1308.3	1304.9	1304.9	1304.9	1304.9	1303.2	1301.5	1304.9	1299.8	1298.1	1298.1
7.5°	1298.1	1296.4	1296.4	1294.7	1293.0	1291.3	1289.6	1291.3	1286.1	1284.4	1284.4
10°	1299.8	1296.4	1296.4	1291.3	1287.8	1282.7	1277.6	1279.3	1272.5	1267.4	1267.4
12.5°	1279.3	1270.8	1265.7	1260.6	1257.2	1255.5	1248.7	1252.1	1245.3	1243.6	1243.6
15°	1233.3	1223.1	1214.6	1211.2	1211.2	1207.8	1202.7	1209.5	1206.1	1207.8	1216.3
17.5°	1161.8	1156.7	1151.6	1149.9	1151.6	1155.0	1158.4	1168.6	1168.6	1173.7	1182.2
20°	1098.8	1095.4	1098.8	1098.8	1100.5	1107.3	1114.1	1122.6	1126.0	1131.1	1143.1
22.5°	1037.4	1037.4	1040.8	1046.0	1044.2	1056.2	1057.9	1073.2	1073.2	1083.4	1093.6
25°	977.8	977.8	981.2	982.9	986.3	993.1	1000.0	1011.9	1015.3	1025.5	1034.0
27.5°	919.9	918.2	918.2	919.9	923.3	931.8	935.2	948.9	954.0	960.8	969.3
30°	855.2	853.5	856.9	860.3	858.6	867.1	872.2	882.4	885.8	892.6	899.5
32.5°	793.8	793.8	793.8	797.2	797.2	804.1	804.1	816.0	816.0	821.1	827.9
35°	730.8	730.8	732.5	734.2	735.9	737.6	739.3	746.1	747.8	749.5	752.9
37.5°	671.2	669.5	671.2	671.2	667.8	674.6	674.6	681.4	676.3	681.4	683.1
40°	609.9	609.9	608.2	608.2	608.2	611.6	608.2	613.3	609.9	613.3	611.6
42.5°	546.8	546.8	543.4	546.8	545.1	545.1	545.1	548.5	543.4	546.8	548.5
45°	483.8	482.1	482.1	480.4	480.4	480.4	482.1	482.1	480.4	483.8	483.8
47.5°	422.5	420.8	420.8	420.8	420.8	422.5	417.4	420.8	417.4	417.4	417.4
50°	369.7	368.0	366.3	364.5	362.8	362.8	361.1	361.1	357.7	356.0	354.3
52.5°	318.6	316.9	313.4	313.4	311.7	310.0	304.9	304.9	299.8	298.1	298.1
55°	272.6	267.5	265.7	262.3	262.3	258.9	255.5	252.1	247.0	243.6	243.6
57.5°	230.0	224.9	221.5	219.8	218.0	214.6	207.8	206.1	199.3	197.6	195.9
60°	192.5	187.4	182.3	178.9	177.2	172.1	165.2	161.8	158.4	153.3	148.2
62.5°	156.7	151.6	144.8	143.1	139.7	134.6	129.5	124.4	120.9	115.8	112.4
65°	126.1	120.9	115.8	112.4	109.0	103.9	98.8	93.7	90.3	88.6	86.9
67.5°	102.2	95.4	90.3	88.6	85.2	81.8	76.7	75.0	71.5	71.5	71.5
70°	80.1	75.0	69.8	68.1	66.4	63.0	59.6	59.6	59.6	59.6	59.6
72.5°	59.6	56.2	51.1	49.4	47.7	46.0	42.6	44.3	42.6	42.6	42.6
75°	37.5	34.1	30.7	29.0	27.3	25.6	23.8	22.1	20.4	18.7	18.7
77.5°	20.4	17.0	15.3	13.6	13.6	11.9	10.2	10.2	8.5	8.5	8.5
80°	11.9	10.2	8.5	6.8	6.8	5.1	5.1	5.1	5.1	3.4	3.4
82.5°	6.8	5.1	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7
85°	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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	0.0	0.0	0.0





TEST NUMBER: P252383

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7	1311.7
2.5°	1301.5	1306.6	1301.5	1306.6	1306.6	1306.6	1306.6	1301.5
5°	1293.0	1296.4	1291.3	1294.7	1296.4	1294.7	1294.7	1289.6
7.5°	1277.6	1281.0	1275.9	1281.0	1282.7	1281.0	1279.3	1275.9
10°	1262.3	1264.0	1258.9	1262.3	1265.7	1265.7	1264.0	1258.9
12.5°	1238.4	1243.6	1238.4	1241.9	1245.3	1247.0	1247.0	1241.9
15°	1211.2	1219.7	1216.3	1221.4	1226.5	1228.2	1228.2	1226.5
17.5°	1183.9	1192.5	1187.3	1195.9	1201.0	1204.4	1206.1	1202.7
20°	1144.8	1155.0	1151.6	1158.4	1165.2	1170.3	1170.3	1165.2
22.5°	1093.6	1107.3	1105.6	1110.7	1119.2	1120.9	1124.3	1120.9
25°	1037.4	1047.7	1046.0	1051.1	1061.3	1061.3	1063.0	1063.0
27.5°	972.7	982.9	981.2	984.6	991.4	993.1	994.8	991.4
30°	902.9	908.0	908.0	913.1	918.2	919.9	919.9	914.8
32.5°	826.2	833.0	836.4	834.7	839.8	843.2	841.5	841.5
35°	756.4	758.1	759.8	761.5	763.2	766.6	763.2	761.5
37.5°	681.4	686.5	683.1	686.5	689.9	688.2	686.5	686.5
40°	613.3	615.0	611.6	615.0	616.7	616.7	616.7	613.3
42.5°	545.1	548.5	545.1	548.5	548.5	548.5	548.5	546.8
45°	477.0	480.4	480.4	482.1	482.1	480.4	480.4	480.4
47.5°	414.0	417.4	414.0	417.4	419.1	415.7	415.7	415.7
50°	354.3	352.6	352.6	354.3	354.3	354.3	354.3	352.6
52.5°	293.0	294.7	294.7	294.7	296.4	294.7	296.4	296.4
55°	240.2	240.2	240.2	241.9	240.2	240.2	241.9	243.6
57.5°	192.5	190.8	189.1	189.1	190.8	189.1	189.1	189.1
60°	148.2	146.5	144.8	144.8	144.8	144.8	144.8	143.1
62.5°	110.7	110.7	110.7	112.4	112.4	112.4	112.4	114.1
65°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	90.3
67.5°	71.5	71.5	71.5	73.3	73.3	73.3	73.3	73.3
70°	59.6	59.6	61.3	59.6	61.3	61.3	61.3	61.3
72.5°	40.9	40.9	40.9	40.9	40.9	39.2	40.9	39.2
75°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	15.3
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	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)