

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: P252488

Luminaire Tested: **LD6B30D010 EU6B30509040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252488
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 EU6B30509040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 2177.0 lumens
Efficiency: N/A
Efficacy: 77.7 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

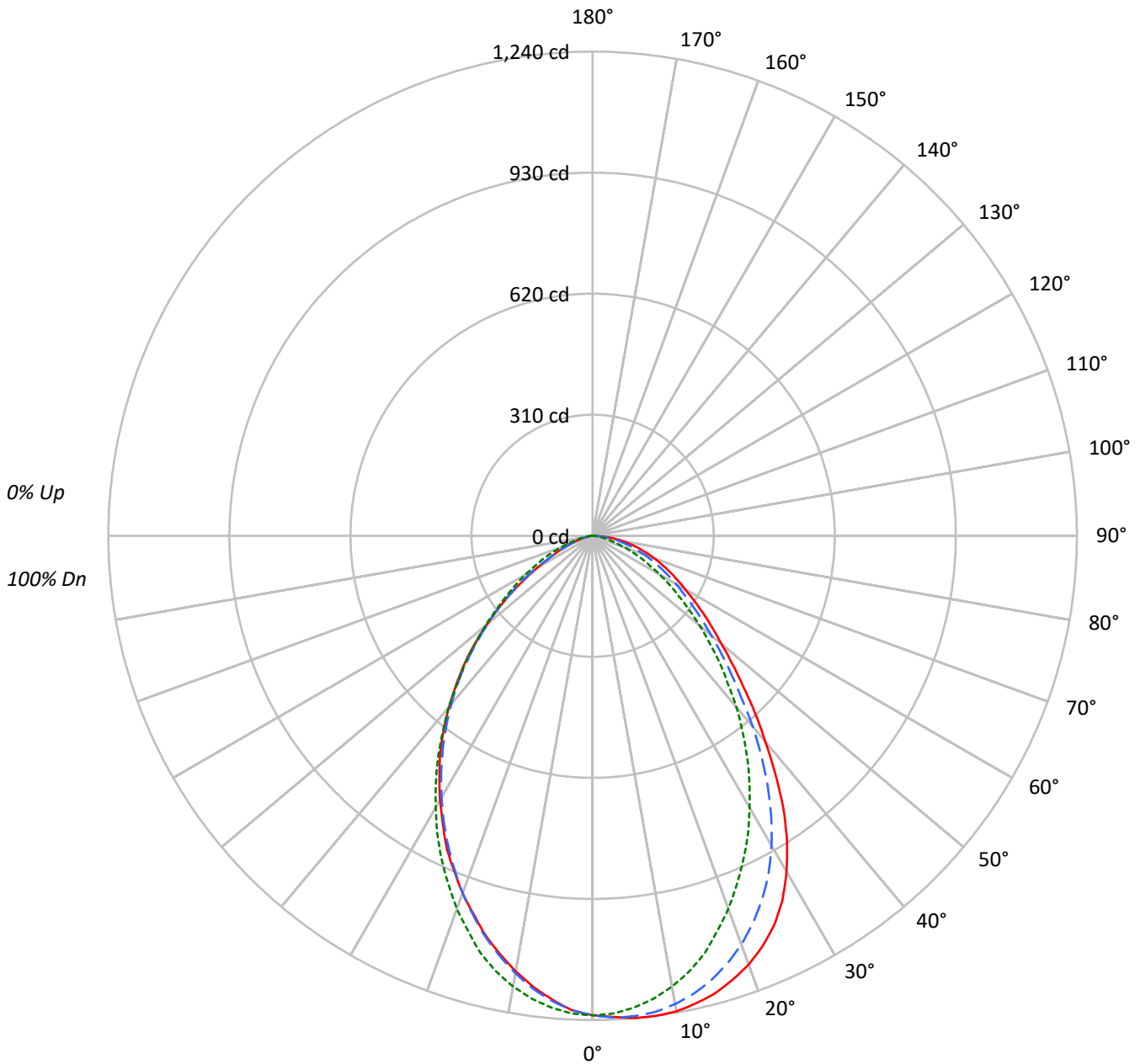
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	80129	80129	80129
5°	81214	79426	78084
10°	81928	77635	75031
15°	81915	74769	71547
20°	81119	70580	67623
25°	79198	65816	63606
30°	74791	60523	58850
35°	67793	54883	54206
40°	58543	48808	48664
45°	50201	42497	42811
50°	43633	36356	35838
55°	39196	30654	28720
60°	35608	25822	21138
65°	33437	21334	15530
70°	31894	16595	11388
75°	30526	12049	7739
80°	28854	8341	5110
85°	25526	5090	2545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	5.3
10°-20°	314.6	14.5
20°-30°	436.8	20.1
30°-40°	452.5	20.8
40°-50°	371.8	17.1
50°-60°	255.5	11.7
60°-70°	146.9	6.7
70°-80°	67.5	3.1
80°-90°	16.4	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°	866.3	39.8
0°-40°	1318.8	60.6
0°-60°	1946.1	89.4
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1228	1228	1228	1228	1228	
5°	1240	1235	1213	1196	1192	118
15°	1213	1177	1107	1063	1059	342
25°	1100	1027	914	875	884	503
35°	851	781	689	669	681	528
45°	544	503	461	455	464	424
55°	345	312	270	254	252	310
65°	217	189	138	97	101	216
75°	121	96	48	31	31	128
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°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1233.3	1243.5	1236.7	1235.0	1238.4	1238.4	1238.4	1233.3	1236.7	1231.6	1235.0
5°	1240.1	1248.6	1241.8	1238.4	1241.8	1243.5	1238.4	1235.0	1240.1	1233.3	1235.0
7.5°	1240.1	1248.6	1241.8	1240.1	1241.8	1241.8	1240.1	1233.3	1236.7	1229.9	1229.9
10°	1236.7	1243.5	1236.7	1233.3	1235.0	1233.3	1233.3	1224.7	1226.4	1217.9	1217.9
12.5°	1226.4	1235.0	1226.4	1223.0	1223.0	1223.0	1217.9	1211.1	1212.8	1202.6	1200.9
15°	1212.8	1219.6	1211.1	1207.7	1207.7	1206.0	1202.6	1192.3	1192.3	1182.1	1177.0
17.5°	1192.3	1199.2	1192.3	1187.2	1185.5	1182.1	1178.7	1168.4	1165.0	1153.1	1148.0
20°	1168.4	1173.6	1166.7	1161.6	1158.2	1154.8	1148.0	1137.7	1134.3	1122.4	1113.9
22.5°	1137.7	1144.6	1134.3	1129.2	1125.8	1120.7	1113.9	1103.6	1098.5	1083.2	1072.9
25°	1100.2	1103.6	1095.1	1090.0	1083.2	1079.7	1074.6	1061.0	1055.9	1038.8	1026.9
27.5°	1052.5	1055.9	1045.6	1042.2	1033.7	1030.3	1023.5	1011.5	1004.7	987.6	975.7
30°	992.8	996.2	989.3	984.2	977.4	970.6	965.5	953.5	943.3	926.2	916.0
32.5°	926.2	931.3	924.5	917.7	905.8	907.5	898.9	887.0	878.5	863.1	851.2
35°	851.2	854.6	846.1	844.4	837.5	830.7	822.2	813.6	808.5	791.5	781.2
37.5°	767.6	776.1	767.6	760.8	757.4	752.2	747.1	735.2	731.8	721.5	707.9
40°	687.4	692.5	687.4	680.6	675.5	675.5	668.7	661.8	653.3	643.1	638.0
42.5°	615.8	612.4	610.7	607.3	600.4	598.7	597.0	588.5	583.4	573.1	564.6
45°	544.1	545.8	542.4	540.7	535.6	532.2	528.8	522.0	520.3	510.0	503.2
47.5°	484.4	482.7	479.3	479.3	475.9	472.5	469.1	464.0	462.3	453.7	446.9
50°	429.9	431.6	429.9	428.1	423.0	421.3	417.9	414.5	411.1	402.6	395.7
52.5°	385.5	383.8	382.1	382.1	377.0	375.3	371.9	368.4	365.0	356.5	351.4
55°	344.6	344.6	342.9	341.2	336.0	334.3	332.6	329.2	324.1	317.3	312.2
57.5°	307.0	307.0	305.3	303.6	300.2	300.2	296.8	293.4	290.0	283.2	276.3
60°	272.9	274.6	272.9	271.2	267.8	267.8	266.1	261.0	259.3	250.7	245.6
62.5°	243.9	243.9	243.9	242.2	240.5	237.1	237.1	232.0	228.6	223.5	216.6
65°	216.6	216.6	216.6	214.9	211.5	209.8	208.1	204.7	201.3	196.2	189.3
67.5°	191.0	191.0	191.0	189.3	185.9	184.2	182.5	180.8	175.7	170.6	163.8
70°	167.2	167.2	165.5	163.8	162.0	160.3	158.6	155.2	151.8	145.0	139.9
72.5°	143.3	143.3	143.3	139.9	138.2	138.2	134.8	133.0	129.6	122.8	117.7
75°	121.1	119.4	119.4	117.7	116.0	114.3	112.6	110.9	105.8	102.3	95.5
77.5°	98.9	98.9	97.2	95.5	95.5	93.8	92.1	88.7	87.0	81.9	76.8
80°	76.8	76.8	76.8	76.8	75.1	73.3	73.3	69.9	68.2	63.1	59.7
82.5°	58.0	56.3	56.3	56.3	54.6	52.9	52.9	51.2	49.5	46.1	42.6
85°	34.1	32.4	32.4	32.4	30.7	30.7	29.0	29.0	27.3	23.9	23.9
87.5°	10.2	10.2	11.9	11.9	10.2	10.2	10.2	10.2	10.2	8.5	8.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1231.6	1236.7	1229.9	1228.2	1235.0	1231.6	1229.9	1226.4	1228.2	1224.7	1219.6
5°	1229.9	1236.7	1228.2	1223.0	1231.6	1226.4	1223.0	1219.6	1219.6	1212.8	1209.4
7.5°	1224.7	1228.2	1219.6	1214.5	1219.6	1214.5	1211.1	1206.0	1204.3	1195.7	1190.6
10°	1211.1	1214.5	1204.3	1197.4	1202.6	1195.7	1190.6	1185.5	1182.1	1171.9	1165.0
12.5°	1192.3	1194.0	1182.1	1173.6	1177.0	1171.9	1163.3	1156.5	1153.1	1142.9	1134.3
15°	1166.7	1168.4	1154.8	1142.9	1146.3	1139.5	1129.2	1122.4	1117.3	1107.0	1095.1
17.5°	1136.0	1134.3	1119.0	1107.0	1108.7	1100.2	1090.0	1079.7	1072.9	1061.0	1052.5
20°	1101.9	1096.8	1079.7	1066.1	1067.8	1057.6	1045.6	1035.4	1026.9	1016.6	1004.7
22.5°	1059.3	1052.5	1037.1	1020.0	1021.8	1013.2	996.2	987.6	979.1	965.5	955.2
25°	1013.2	1003.0	987.6	970.6	970.6	960.3	946.7	936.5	927.9	914.3	902.3
27.5°	958.6	953.5	933.1	919.4	917.7	907.5	895.5	883.6	873.4	861.4	849.5
30°	898.9	890.4	875.1	859.7	856.3	847.8	835.8	822.2	815.4	803.4	793.2
32.5°	835.8	827.3	810.2	794.9	793.2	786.4	776.1	762.5	755.7	747.1	740.3
35°	764.2	760.8	743.7	731.8	731.8	724.9	714.7	702.8	697.7	689.1	680.6
37.5°	696.0	690.8	675.5	665.2	665.2	656.7	646.5	641.4	636.3	629.4	624.3
40°	624.3	620.9	609.0	598.7	600.4	593.6	586.8	580.0	576.5	573.1	568.0
42.5°	557.8	554.4	545.8	537.3	537.3	532.2	525.4	520.3	516.8	511.7	510.0
45°	498.1	493.0	486.1	477.6	477.6	472.5	469.1	465.7	464.0	460.6	455.4
47.5°	440.1	436.7	429.9	421.3	421.3	421.3	414.5	409.4	409.4	406.0	404.3
50°	390.6	385.5	380.4	373.6	373.6	370.2	365.0	359.9	359.9	358.2	354.8
52.5°	344.6	341.2	334.3	327.5	327.5	324.1	319.0	317.3	315.6	310.4	308.7
55°	305.3	301.9	296.8	288.3	286.6	284.9	279.7	276.3	274.6	269.5	269.5
57.5°	269.5	266.1	257.6	252.5	250.7	247.3	242.2	238.8	237.1	233.7	230.3
60°	238.8	233.7	226.9	220.0	218.3	214.9	209.8	206.4	204.7	197.9	194.5
62.5°	209.8	204.7	197.9	191.0	189.3	185.9	179.1	175.7	172.3	165.5	162.0
65°	182.5	177.4	170.6	163.8	160.3	158.6	151.8	146.7	143.3	138.2	131.3
67.5°	156.9	151.8	145.0	136.5	136.5	131.3	126.2	121.1	116.0	110.9	105.8
70°	133.0	127.9	121.1	114.3	112.6	109.2	104.1	97.2	93.8	87.0	81.9
72.5°	110.9	105.8	98.9	92.1	90.4	87.0	81.9	75.1	69.9	64.8	59.7
75°	90.4	85.3	78.5	73.3	71.6	68.2	63.1	56.3	51.2	47.8	42.6
77.5°	71.6	66.5	61.4	56.3	54.6	51.2	46.1	42.6	37.5	34.1	29.0
80°	54.6	51.2	46.1	42.6	40.9	37.5	34.1	29.0	25.6	22.2	20.5
82.5°	39.2	35.8	32.4	27.3	27.3	23.9	22.2	18.8	15.4	13.6	11.9
85°	22.2	18.8	17.1	15.4	13.6	13.6	11.9	10.2	8.5	6.8	6.8
87.5°	6.8	6.8	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°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1219.6	1221.3	1217.9	1221.3	1217.9	1219.6	1216.2	1219.6	1216.2	1219.6	1212.8
5°	1207.7	1207.7	1202.6	1206.0	1202.6	1204.3	1197.4	1199.2	1195.7	1199.2	1192.3
7.5°	1187.2	1188.9	1180.4	1183.8	1178.7	1178.7	1173.6	1175.3	1170.2	1171.9	1166.7
10°	1163.3	1161.6	1153.1	1156.5	1149.7	1149.7	1144.6	1144.6	1137.7	1139.5	1132.6
12.5°	1129.2	1127.5	1117.3	1120.7	1113.9	1113.9	1108.7	1108.7	1101.9	1105.3	1098.5
15°	1090.0	1088.3	1078.0	1079.7	1072.9	1072.9	1066.1	1067.8	1062.7	1066.1	1059.3
17.5°	1045.6	1043.9	1033.7	1035.4	1026.9	1028.6	1023.5	1021.8	1018.3	1020.0	1014.9
20°	999.6	996.2	985.9	987.6	984.2	979.1	975.7	977.4	974.0	977.4	972.3
22.5°	951.8	945.0	936.5	936.5	933.1	933.1	927.9	931.3	924.5	929.6	926.2
25°	897.2	892.1	885.3	888.7	881.9	881.9	876.8	878.5	875.1	878.5	875.1
27.5°	844.4	840.9	830.7	834.1	829.0	830.7	825.6	827.3	825.6	829.0	825.6
30°	788.1	786.4	779.5	779.5	777.8	776.1	774.4	774.4	772.7	777.8	774.4
32.5°	735.2	730.1	723.2	728.4	719.8	724.9	721.5	724.9	721.5	724.9	723.2
35°	680.6	678.9	670.4	672.1	670.4	670.4	668.7	668.7	668.7	673.8	673.8
37.5°	622.6	620.9	615.8	617.5	614.1	612.4	612.4	615.8	615.8	619.2	619.2
40°	566.3	568.0	562.9	562.9	561.2	561.2	561.2	564.6	562.9	566.3	564.6
42.5°	510.0	510.0	504.9	506.6	504.9	506.6	506.6	510.0	510.0	511.7	510.0
45°	457.1	457.1	455.4	457.1	453.7	455.4	453.7	457.1	455.4	457.1	457.1
47.5°	404.3	404.3	404.3	402.6	402.6	402.6	402.6	402.6	400.9	404.3	402.6
50°	354.8	356.5	354.8	354.8	353.1	354.8	353.1	353.1	349.7	351.4	351.4
52.5°	310.4	310.4	307.0	307.0	307.0	305.3	305.3	305.3	303.6	303.6	300.2
55°	267.8	267.8	264.4	264.4	262.7	261.0	259.3	259.3	254.2	254.2	249.0
57.5°	228.6	226.9	221.7	221.7	218.3	216.6	214.9	213.2	209.8	206.4	204.7
60°	192.8	189.3	185.9	184.2	180.8	177.4	174.0	170.6	167.2	165.5	163.8
62.5°	158.6	153.5	150.1	148.4	145.0	139.9	136.5	133.0	129.6	127.9	124.5
65°	127.9	122.8	117.7	116.0	112.6	109.2	104.1	100.6	97.2	95.5	95.5
67.5°	100.6	95.5	88.7	88.7	85.3	81.9	78.5	75.1	73.3	75.1	75.1
70°	75.1	71.6	66.5	64.8	61.4	58.0	56.3	56.3	56.3	58.0	56.3
72.5°	56.3	51.2	47.8	46.1	44.3	42.6	42.6	42.6	40.9	42.6	42.6
75°	39.2	35.8	32.4	32.4	30.7	30.7	30.7	30.7	30.7	30.7	30.7
77.5°	27.3	23.9	22.2	22.2	22.2	20.5	20.5	20.5	20.5	20.5	20.5
80°	17.1	17.1	15.4	15.4	13.6	13.6	13.6	13.6	13.6	13.6	13.6
82.5°	10.2	10.2	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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: P252488

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1212.8	1217.9	1211.1	1216.2	1214.5	1212.8	1209.4	1216.2
5°	1192.3	1194.0	1187.2	1194.0	1192.3	1188.9	1185.5	1192.3
7.5°	1163.3	1168.4	1159.9	1166.7	1165.0	1161.6	1158.2	1165.0
10°	1130.9	1136.0	1129.2	1134.3	1134.3	1130.9	1125.8	1132.6
12.5°	1095.1	1098.5	1091.7	1098.5	1096.8	1093.4	1091.7	1096.8
15°	1055.9	1061.0	1054.2	1059.3	1057.6	1055.9	1054.2	1059.3
17.5°	1013.2	1018.3	1013.2	1018.3	1018.3	1013.2	1011.5	1014.9
20°	970.6	974.0	968.9	974.0	972.3	972.3	968.9	974.0
22.5°	922.8	927.9	924.5	927.9	926.2	926.2	924.5	927.9
25°	875.1	880.2	875.1	880.2	878.5	878.5	875.1	883.6
27.5°	827.3	830.7	825.6	832.4	830.7	827.3	829.0	830.7
30°	776.1	779.5	776.1	781.2	781.2	781.2	777.8	781.2
32.5°	724.9	730.1	724.9	730.1	728.4	728.4	726.7	730.1
35°	673.8	675.5	672.1	677.2	677.2	678.9	675.5	680.6
37.5°	620.9	622.6	620.9	622.6	626.0	620.9	624.3	626.0
40°	566.3	569.7	568.0	569.7	569.7	571.4	569.7	571.4
42.5°	511.7	515.1	511.7	516.8	515.1	515.1	516.8	516.8
45°	455.4	460.6	457.1	460.6	462.3	460.6	460.6	464.0
47.5°	402.6	406.0	404.3	406.0	406.0	406.0	406.0	409.4
50°	349.7	351.4	351.4	353.1	353.1	354.8	351.4	353.1
52.5°	296.8	300.2	300.2	300.2	298.5	300.2	300.2	300.2
55°	249.0	250.7	247.3	250.7	250.7	249.0	249.0	252.5
57.5°	203.0	203.0	203.0	203.0	203.0	201.3	203.0	203.0
60°	160.3	162.0	160.3	160.3	160.3	160.3	158.6	162.0
62.5°	124.5	124.5	122.8	124.5	124.5	124.5	126.2	126.2
65°	97.2	98.9	97.2	98.9	98.9	98.9	98.9	100.6
67.5°	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
70°	58.0	58.0	58.0	59.7	58.0	58.0	58.0	59.7
72.5°	42.6	42.6	42.6	42.6	42.6	42.6	44.3	44.3
75°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
77.5°	20.5	20.5	20.5	22.2	20.5	22.2	20.5	20.5
80°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
82.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
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)