

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: P252277

Luminaire Tested: **LD6B30D010 EU6B30509027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2243.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

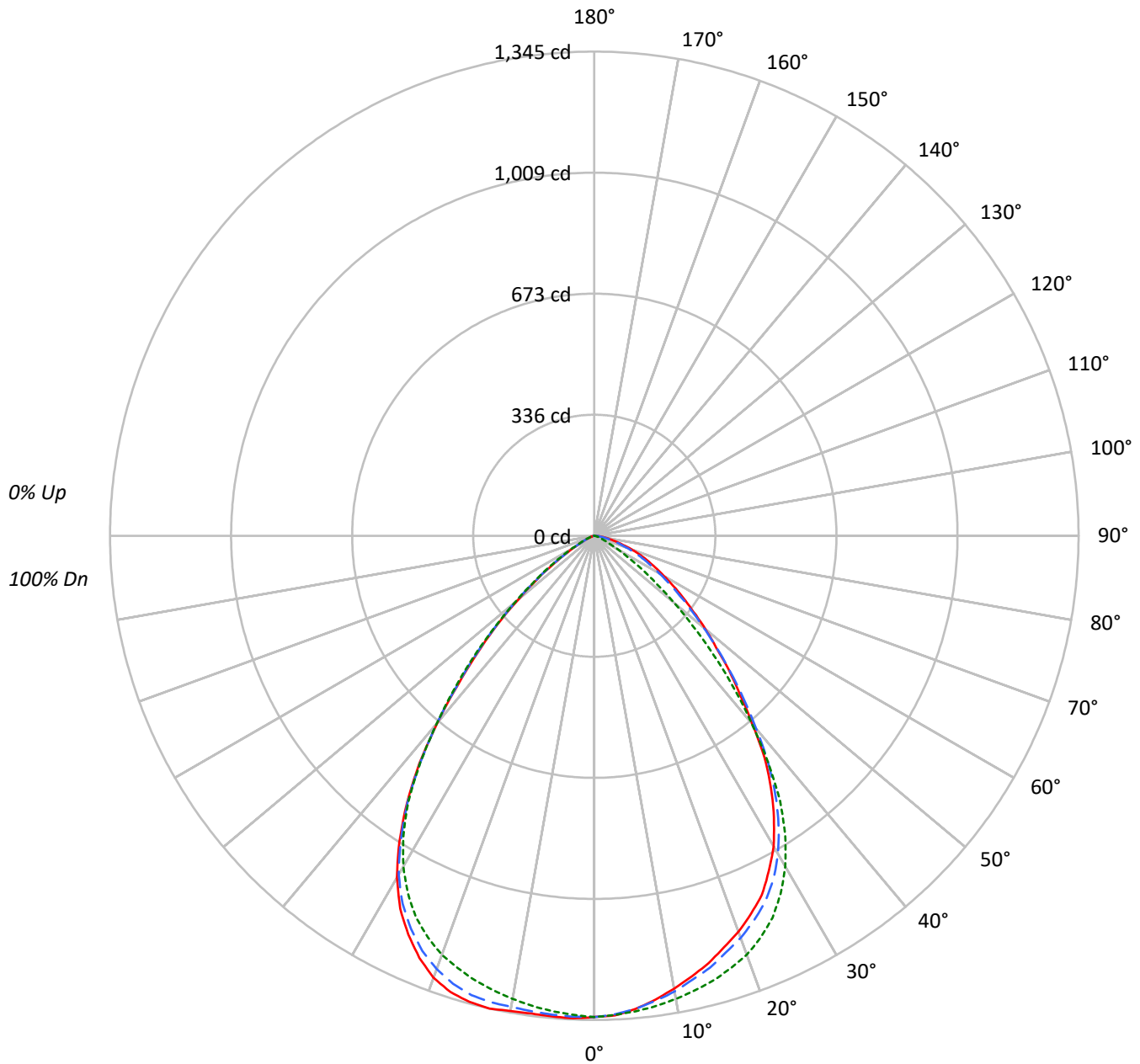
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102		109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	89		102	96	92	88		93	89	86		90	87	84		87	85	82
3	97	89	83	78		95	88	82	77		85	80	76		82	78	75		80	77	74
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	74	67	62		83	73	66	61		71	65	61		70	64	60		68	63	60
6	79	68	61	55		78	67	60	55		66	59	55		64	59	54		63	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	49		58	53	49
8	70	58	51	46		68	57	50	46		56	50	45		55	49	45		54	49	45
9	65	54	47	42		64	53	46	42		52	46	42		51	46	41		50	45	41
10	62	50	43	39		61	50	43	38		49	43	38		48	42	38		47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	87227	87227	87227
5°	86394	86820	87769
10°	84611	86539	88784
15°	82996	86373	90520
20°	81279	85986	90693
25°	79270	84273	87987
30°	75055	79921	82596
35°	68159	71632	72277
40°	58168	57896	57623
45°	48863	43355	42008
50°	40812	29332	27861
55°	34339	17994	16345
60°	29071	9486	8220
65°	25178	4986	3983
70°	20944	3071	2155
75°	15477	2042	1210
80°	12135	1202	601
85°	9656	1198	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	5.6
10°-20°	360.8	16.1
20°-30°	532.7	23.8
30°-40°	549.0	24.5
40°-50°	379.2	16.9
50°-60°	186.9	8.3
60°-70°	75.7	3.4
70°-80°	27.0	1.2
80°-90°	5.6	0.2
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°	1019.5	45.5
0°-40°	1568.6	69.9
0°-60°	2134.7	95.2
0°-90°	2243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1337	1337	1337	1337	1337	
5°	1319	1319	1326	1335	1340	125
15°	1229	1242	1279	1321	1340	346
25°	1101	1122	1171	1205	1222	503
35°	856	877	899	904	908	530
45°	530	533	470	463	455	409
55°	302	291	158	149	144	273
65°	163	147	32	26	26	162
75°	61	52	8	5	5	69
85°	13	10	2	0	0	16
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°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1333.7	1328.9	1332.1	1325.7	1333.7	1325.7	1327.3	1328.9	1327.3	1328.9	1330.5
5°	1319.2	1314.4	1319.2	1311.1	1319.2	1314.4	1314.4	1316.0	1316.0	1317.6	1319.2
7.5°	1299.8	1295.0	1299.8	1291.8	1301.4	1296.6	1296.6	1299.8	1298.2	1299.8	1303.1
10°	1277.2	1270.8	1275.6	1270.8	1280.5	1274.0	1277.2	1277.2	1277.2	1282.1	1285.3
12.5°	1253.0	1246.5	1253.0	1244.9	1254.6	1249.8	1251.4	1256.2	1257.8	1261.1	1262.7
15°	1228.8	1220.7	1223.9	1219.1	1228.8	1223.9	1225.6	1232.0	1232.0	1236.9	1241.7
17.5°	1198.1	1191.6	1198.1	1191.6	1199.7	1196.5	1199.7	1204.6	1204.6	1209.4	1214.2
20°	1170.7	1164.2	1169.0	1164.2	1173.9	1169.0	1170.7	1177.1	1178.7	1183.6	1188.4
22.5°	1136.7	1131.9	1135.1	1130.3	1140.0	1136.7	1138.4	1144.8	1146.4	1149.7	1157.7
25°	1101.2	1091.5	1096.4	1093.1	1102.8	1098.0	1101.2	1107.7	1110.9	1115.8	1122.2
27.5°	1049.6	1044.7	1047.9	1047.9	1056.0	1051.2	1052.8	1059.2	1064.1	1068.9	1077.0
30°	996.3	988.2	991.4	993.0	999.5	996.3	999.5	1006.0	1007.6	1014.0	1020.5
32.5°	928.4	925.2	931.7	928.4	931.7	931.7	933.3	938.1	941.4	944.6	952.7
35°	855.8	849.3	855.8	852.6	860.6	855.8	860.6	865.5	865.5	871.9	876.8
37.5°	776.7	768.6	771.8	771.8	775.1	773.4	773.4	781.5	783.1	788.0	792.8
40°	683.0	679.8	686.2	684.6	686.2	686.2	687.9	692.7	695.9	697.5	699.2
42.5°	599.1	600.7	602.3	602.3	602.3	602.3	602.3	608.7	607.1	612.0	613.6
45°	529.6	523.2	526.4	524.8	529.6	524.8	529.6	534.5	531.2	536.1	532.8
47.5°	458.6	458.6	458.6	457.0	460.2	458.6	461.8	463.4	463.4	463.4	461.8
50°	402.1	397.2	398.8	398.8	400.4	398.8	402.1	403.7	403.7	400.4	394.0
52.5°	347.2	345.5	345.5	348.8	348.8	347.2	347.2	347.2	347.2	342.3	339.1
55°	301.9	298.7	300.3	300.3	300.3	300.3	301.9	300.3	300.3	295.5	290.6
57.5°	261.6	258.4	258.4	258.4	260.0	258.4	258.4	258.4	256.7	251.9	245.4
60°	222.8	221.2	222.8	222.8	224.4	222.8	222.8	222.8	219.6	214.8	208.3
62.5°	190.5	190.5	190.5	192.1	192.1	190.5	190.5	188.9	187.3	180.8	174.4
65°	163.1	161.5	163.1	163.1	164.7	164.7	163.1	161.5	159.9	153.4	146.9
67.5°	135.6	134.0	135.6	135.6	137.2	135.6	135.6	135.6	130.8	127.6	121.1
70°	109.8	108.2	108.2	108.2	109.8	106.6	108.2	108.2	105.0	100.1	93.7
72.5°	84.0	84.0	84.0	84.0	84.0	84.0	82.3	82.3	79.1	74.3	71.0
75°	61.4	61.4	63.0	63.0	61.4	61.4	61.4	59.7	58.1	54.9	51.7
77.5°	45.2	45.2	45.2	45.2	43.6	43.6	43.6	42.0	40.4	38.8	35.5
80°	32.3	32.3	32.3	30.7	32.3	30.7	30.7	30.7	27.4	25.8	24.2
82.5°	22.6	21.0	21.0	21.0	21.0	21.0	21.0	19.4	19.4	17.8	16.1
85°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	11.3	9.7	9.7
87.5°	6.5	8.1	8.1	8.1	8.1	8.1	8.1	6.5	6.5	6.5	4.8
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°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1330.5	1330.5	1333.7	1328.9	1337.0	1332.1	1330.5	1338.6	1333.7	1332.1	1335.4
5°	1319.2	1320.8	1322.4	1319.2	1327.3	1322.4	1322.4	1330.5	1327.3	1325.7	1330.5
7.5°	1304.7	1306.3	1309.5	1307.9	1314.4	1311.1	1312.7	1320.8	1317.6	1317.6	1322.4
10°	1286.9	1290.1	1293.4	1293.4	1301.4	1298.2	1298.2	1307.9	1304.7	1306.3	1312.7
12.5°	1265.9	1270.8	1275.6	1277.2	1285.3	1280.5	1282.1	1293.4	1291.8	1293.4	1299.8
15°	1243.3	1249.8	1254.6	1254.6	1264.3	1259.5	1264.3	1275.6	1272.4	1278.8	1286.9
17.5°	1217.5	1223.9	1230.4	1232.0	1241.7	1238.5	1244.9	1256.2	1256.2	1259.5	1269.1
20°	1193.3	1201.3	1204.6	1209.4	1219.1	1217.5	1220.7	1233.6	1233.6	1238.5	1248.2
22.5°	1161.0	1169.0	1175.5	1180.3	1188.4	1188.4	1193.3	1204.6	1204.6	1207.8	1217.5
25°	1125.4	1135.1	1140.0	1144.8	1152.9	1151.3	1156.1	1165.8	1167.4	1170.7	1180.3
27.5°	1080.2	1088.3	1094.8	1098.0	1109.3	1102.8	1107.7	1119.0	1117.4	1120.6	1128.7
30°	1023.7	1031.8	1038.2	1038.2	1047.9	1047.9	1052.8	1057.6	1057.6	1060.9	1067.3
32.5°	957.5	967.2	967.2	972.0	978.5	972.0	978.5	985.0	981.7	986.6	991.4
35°	881.6	886.5	888.1	888.1	892.9	891.3	889.7	894.5	891.3	899.4	904.2
37.5°	789.6	796.0	792.8	796.0	794.4	789.6	789.6	797.7	791.2	792.8	797.7
40°	700.8	700.8	699.2	691.1	692.7	687.9	686.2	687.9	681.4	679.8	686.2
42.5°	608.7	607.1	602.3	591.0	592.6	584.5	578.1	578.1	574.8	573.2	574.8
45°	526.4	521.5	513.5	500.6	497.3	490.9	477.9	474.7	469.9	469.9	471.5
47.5°	450.5	444.0	431.1	416.6	408.5	400.4	387.5	382.7	374.6	371.4	374.6
50°	387.5	376.2	360.1	339.1	331.0	321.3	308.4	300.3	292.3	289.0	287.4
52.5°	329.4	313.3	297.1	271.3	264.8	255.1	237.4	229.3	221.2	214.8	214.8
55°	279.3	264.8	242.2	218.0	208.3	198.6	180.8	169.5	161.5	158.2	155.0
57.5°	234.1	218.0	197.0	171.2	161.5	151.8	134.0	122.7	114.6	109.8	106.6
60°	197.0	179.2	158.2	135.6	124.3	114.6	96.9	85.6	77.5	72.7	69.4
62.5°	161.5	146.9	125.9	105.0	95.3	85.6	71.0	59.7	51.7	48.4	43.6
65°	135.6	121.1	101.7	84.0	75.9	66.2	53.3	43.6	37.1	32.3	29.1
67.5°	109.8	98.5	82.3	66.2	58.1	51.7	40.4	32.3	25.8	22.6	21.0
70°	87.2	75.9	63.0	50.1	45.2	38.8	30.7	22.6	19.4	16.1	14.5
72.5°	64.6	56.5	46.8	37.1	32.3	29.1	21.0	17.8	12.9	11.3	9.7
75°	46.8	40.4	33.9	25.8	22.6	21.0	16.1	11.3	9.7	8.1	6.5
77.5°	32.3	29.1	22.6	17.8	16.1	14.5	11.3	8.1	6.5	4.8	4.8
80°	21.0	17.8	14.5	11.3	11.3	9.7	6.5	4.8	4.8	3.2	3.2
82.5°	12.9	11.3	9.7	8.1	6.5	6.5	4.8	3.2	3.2	1.6	1.6
85°	8.1	6.5	4.8	4.8	3.2	3.2	3.2	1.6	1.6	1.6	1.6
87.5°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	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°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1335.4	1335.4	1338.6	1333.7	1337.0	1337.0	1340.2	1333.7	1337.0	1338.6	1341.8
5°	1328.9	1330.5	1333.7	1332.1	1333.7	1333.7	1337.0	1328.9	1335.4	1335.4	1340.2
7.5°	1322.4	1322.4	1325.7	1324.0	1327.3	1328.9	1332.1	1325.7	1332.1	1332.1	1337.0
10°	1314.4	1314.4	1319.2	1317.6	1322.4	1324.0	1328.9	1322.4	1328.9	1330.5	1335.4
12.5°	1303.1	1304.7	1309.5	1309.5	1314.4	1317.6	1322.4	1319.2	1327.3	1328.9	1335.4
15°	1290.1	1293.4	1299.8	1298.2	1303.1	1307.9	1314.4	1309.5	1320.8	1324.0	1330.5
17.5°	1274.0	1277.2	1282.1	1282.1	1286.9	1290.1	1298.2	1295.0	1304.7	1306.3	1314.4
20°	1249.8	1254.6	1261.1	1259.5	1264.3	1267.5	1274.0	1270.8	1280.5	1283.7	1291.8
22.5°	1220.7	1223.9	1228.8	1228.8	1233.6	1236.9	1243.3	1238.5	1248.2	1249.8	1256.2
25°	1182.0	1185.2	1188.4	1190.0	1194.9	1196.5	1199.7	1196.5	1204.6	1206.2	1214.2
27.5°	1131.9	1133.5	1138.4	1138.4	1141.6	1143.2	1148.0	1141.6	1152.9	1152.9	1157.7
30°	1072.2	1070.5	1077.0	1073.8	1077.0	1077.0	1081.8	1078.6	1086.7	1083.5	1088.3
32.5°	993.0	996.3	996.3	993.0	999.5	997.9	997.9	994.7	999.5	1001.1	1004.3
35°	901.0	905.8	905.8	907.5	909.1	904.2	905.8	896.2	904.2	905.8	907.5
37.5°	800.9	796.0	799.3	794.4	802.5	792.8	792.8	786.4	792.8	792.8	794.4
40°	686.2	684.6	687.9	684.6	683.0	681.4	678.2	673.3	679.8	676.6	681.4
42.5°	578.1	576.4	576.4	573.2	571.6	571.6	568.4	565.1	563.5	563.5	571.6
45°	466.6	469.9	466.6	465.0	468.3	465.0	466.6	460.2	463.4	460.2	463.4
47.5°	373.0	374.6	371.4	368.2	373.0	368.2	368.2	363.3	369.8	369.8	366.5
50°	289.0	287.4	284.2	287.4	285.8	285.8	285.8	281.0	284.2	279.3	282.6
52.5°	213.1	211.5	211.5	209.9	211.5	209.9	209.9	208.3	208.3	206.7	208.3
55°	155.0	153.4	150.2	150.2	150.2	151.8	150.2	148.6	148.6	146.9	148.6
57.5°	105.0	101.7	101.7	101.7	101.7	100.1	100.1	98.5	100.1	98.5	100.1
60°	67.8	67.8	64.6	64.6	64.6	64.6	64.6	63.0	64.6	64.6	64.6
62.5°	42.0	42.0	40.4	38.8	40.4	38.8	38.8	38.8	40.4	38.8	40.4
65°	27.4	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
67.5°	19.4	17.8	17.8	17.8	17.8	17.8	17.8	16.1	17.8	17.8	17.8
70°	12.9	12.9	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	6.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	4.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P252277

CATALOG NUMBER: LD6B30D010 EU6B30509027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1337.0	1338.6	1335.4	1337.0	1333.7	1337.0	1338.6	1341.8
5°	1333.7	1335.4	1332.1	1335.4	1332.1	1335.4	1337.0	1340.2
7.5°	1330.5	1333.7	1330.5	1333.7	1330.5	1333.7	1335.4	1338.6
10°	1330.5	1335.4	1332.1	1337.0	1332.1	1335.4	1338.6	1340.2
12.5°	1330.5	1335.4	1333.7	1337.0	1335.4	1338.6	1341.8	1345.0
15°	1327.3	1332.1	1328.9	1333.7	1332.1	1333.7	1340.2	1340.2
17.5°	1309.5	1314.4	1314.4	1317.6	1317.6	1322.4	1325.7	1328.9
20°	1286.9	1291.8	1290.1	1295.0	1295.0	1299.8	1303.1	1306.3
22.5°	1253.0	1259.5	1257.8	1262.7	1261.1	1264.3	1270.8	1269.1
25°	1209.4	1217.5	1215.9	1219.1	1217.5	1217.5	1220.7	1222.3
27.5°	1156.1	1161.0	1159.3	1162.6	1159.3	1162.6	1165.8	1167.4
30°	1086.7	1089.9	1088.3	1089.9	1088.3	1091.5	1093.1	1096.4
32.5°	1002.7	1007.6	1002.7	1006.0	1004.3	1004.3	1010.8	1007.6
35°	902.6	904.2	905.8	905.8	902.6	904.2	907.5	907.5
37.5°	791.2	799.3	789.6	794.4	792.8	792.8	792.8	797.7
40°	674.9	676.6	673.3	673.3	673.3	671.7	678.2	676.6
42.5°	565.1	566.8	565.1	560.3	561.9	561.9	566.8	560.3
45°	458.6	461.8	460.2	460.2	457.0	457.0	458.6	455.3
47.5°	363.3	366.5	361.7	363.3	360.1	363.3	361.7	364.9
50°	276.1	279.3	277.7	279.3	279.3	276.1	281.0	274.5
52.5°	206.7	208.3	206.7	205.1	203.5	203.5	206.7	205.1
55°	146.9	145.3	145.3	145.3	146.9	146.9	145.3	143.7
57.5°	98.5	98.5	96.9	96.9	98.5	95.3	96.9	95.3
60°	63.0	63.0	63.0	63.0	61.4	63.0	63.0	63.0
62.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
65°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
67.5°	16.1	17.8	17.8	17.8	16.1	16.1	16.1	16.1
70°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	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)