

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: P252280

Luminaire Tested: **LD6B30D010 EU6B30509040 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252280
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 EU6B30509040 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 2370.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

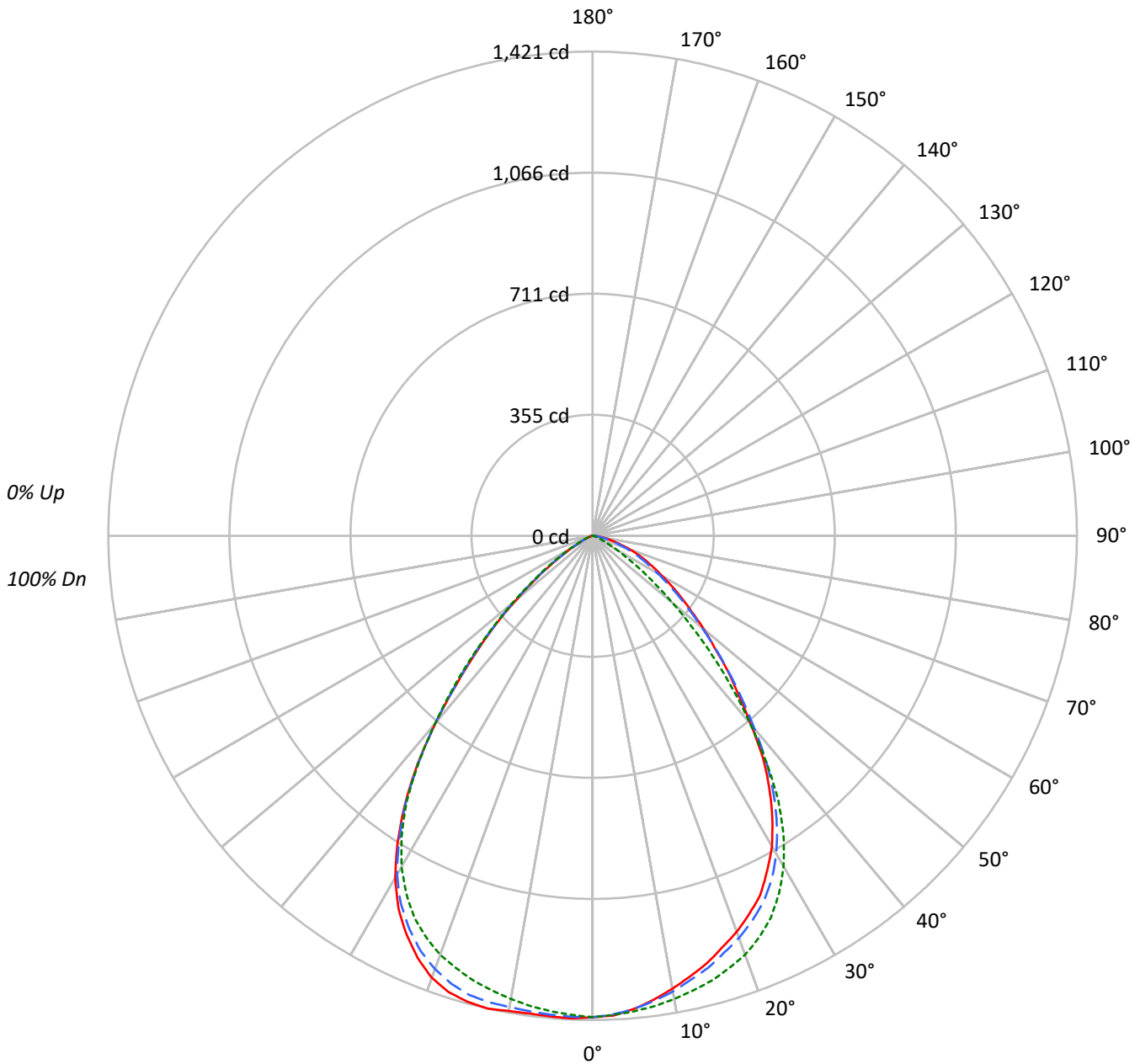
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252280

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBSW1H

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	92165	92165	92165
5°	91286	91732	92740
10°	89400	91434	93812
15°	87697	91263	95646
20°	85875	90853	95824
25°	83762	89038	92969
30°	79303	84441	87274
35°	72014	75686	76363
40°	61464	61174	60885
45°	51631	45809	44388
50°	43116	30997	29434
55°	36284	19018	17266
60°	30715	10021	8677
65°	26598	5264	4214
70°	22127	3262	2270
75°	16334	2143	1286
80°	12812	1277	639
85°	10180	1273	0



TEST NUMBER: P252280

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	5.6
10°-20°	381.2	16.1
20°-30°	562.9	23.8
30°-40°	580.1	24.5
40°-50°	400.7	16.9
50°-60°	197.5	8.3
60°-70°	80.0	3.4
70°-80°	28.5	1.2
80°-90°	5.9	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°	1077.2	45.5
0°-40°	1657.4	69.9
0°-60°	2255.6	95.2
0°-90°	2370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2370.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1413	1413	1413	1413	1413	
5°	1394	1394	1401	1411	1416	132
15°	1298	1312	1351	1396	1416	366
25°	1164	1186	1237	1273	1292	532
35°	904	926	950	955	959	560
45°	560	563	496	490	481	433
55°	319	307	167	157	152	288
65°	172	155	34	27	27	171
75°	65	55	8	5	5	73
85°	14	10	2	0	0	17
90°	0	0	0	0	0	



TEST NUMBER: P252280

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1409.3	1404.1	1407.5	1400.7	1409.3	1400.7	1402.4	1404.1	1402.4	1404.1	1405.8
5°	1393.9	1388.8	1393.9	1385.4	1393.9	1388.8	1388.8	1390.5	1390.5	1392.2	1393.9
7.5°	1373.4	1368.3	1373.4	1364.9	1375.1	1370.0	1370.0	1373.4	1371.7	1373.4	1376.8
10°	1349.5	1342.7	1347.8	1342.7	1353.0	1346.1	1349.5	1349.5	1349.5	1354.7	1358.1
12.5°	1323.9	1317.1	1323.9	1315.4	1325.7	1320.5	1322.2	1327.4	1329.1	1332.5	1334.2
15°	1298.4	1289.8	1293.2	1288.1	1298.4	1293.2	1294.9	1301.8	1301.8	1306.9	1312.0
17.5°	1265.9	1259.1	1265.9	1259.1	1267.6	1264.2	1267.6	1272.8	1272.8	1277.9	1283.0
20°	1236.9	1230.1	1235.2	1230.1	1240.3	1235.2	1236.9	1243.8	1245.5	1250.6	1255.7
22.5°	1201.1	1196.0	1199.4	1194.3	1204.5	1201.1	1202.8	1209.6	1211.3	1214.8	1223.3
25°	1163.6	1153.3	1158.5	1155.0	1165.3	1160.2	1163.6	1170.4	1173.8	1178.9	1185.8
27.5°	1109.0	1103.9	1107.3	1107.3	1115.8	1110.7	1112.4	1119.2	1124.3	1129.5	1138.0
30°	1052.7	1044.1	1047.6	1049.3	1056.1	1052.7	1056.1	1062.9	1064.6	1071.4	1078.3
32.5°	981.0	977.6	984.4	981.0	984.4	984.4	986.1	991.3	994.7	998.1	1006.6
35°	904.2	897.4	904.2	900.8	909.4	904.2	909.4	914.5	914.5	921.3	926.4
37.5°	820.6	812.1	815.5	815.5	818.9	817.2	817.2	825.8	827.5	832.6	837.7
40°	721.7	718.3	725.1	723.4	725.1	725.1	726.8	731.9	735.3	737.0	738.7
42.5°	633.0	634.7	636.4	636.4	636.4	636.4	636.4	643.2	641.5	646.6	648.3
45°	559.6	552.8	556.2	554.5	559.6	554.5	559.6	564.7	561.3	566.4	563.0
47.5°	484.5	484.5	484.5	482.8	486.2	484.5	487.9	489.7	489.7	489.7	487.9
50°	424.8	419.7	421.4	421.4	423.1	421.4	424.8	426.5	426.5	423.1	416.3
52.5°	366.8	365.1	365.1	368.5	368.5	366.8	366.8	366.8	366.8	361.7	358.3
55°	319.0	315.6	317.3	317.3	317.3	317.3	319.0	317.3	317.3	312.2	307.1
57.5°	276.4	273.0	273.0	273.0	274.7	273.0	273.0	273.0	271.3	266.2	259.3
60°	235.4	233.7	235.4	235.4	237.2	235.4	235.4	235.4	232.0	226.9	220.1
62.5°	201.3	201.3	201.3	203.0	203.0	201.3	201.3	199.6	197.9	191.1	184.3
65°	172.3	170.6	172.3	172.3	174.0	174.0	172.3	170.6	168.9	162.1	155.3
67.5°	143.3	141.6	143.3	143.3	145.0	143.3	143.3	143.3	138.2	134.8	128.0
70°	116.0	114.3	114.3	114.3	116.0	112.6	114.3	114.3	110.9	105.8	99.0
72.5°	88.7	88.7	88.7	88.7	88.7	88.7	87.0	87.0	83.6	78.5	75.1
75°	64.8	64.8	66.5	66.5	64.8	64.8	64.8	63.1	61.4	58.0	54.6
77.5°	47.8	47.8	47.8	47.8	46.1	46.1	46.1	44.4	42.7	40.9	37.5
80°	34.1	34.1	34.1	32.4	34.1	32.4	32.4	32.4	29.0	27.3	25.6
82.5°	23.9	22.2	22.2	22.2	22.2	22.2	22.2	20.5	20.5	18.8	17.1
85°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	11.9	10.2	10.2
87.5°	6.8	8.5	8.5	8.5	8.5	8.5	8.5	6.8	6.8	6.8	5.1
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: P252280

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1405.8	1405.8	1409.3	1404.1	1412.7	1407.5	1405.8	1414.4	1409.3	1407.5	1411.0
5°	1393.9	1395.6	1397.3	1393.9	1402.4	1397.3	1397.3	1405.8	1402.4	1400.7	1405.8
7.5°	1378.5	1380.2	1383.7	1382.0	1388.8	1385.4	1387.1	1395.6	1392.2	1392.2	1397.3
10°	1359.8	1363.2	1366.6	1366.6	1375.1	1371.7	1371.7	1382.0	1378.5	1380.2	1387.1
12.5°	1337.6	1342.7	1347.8	1349.5	1358.1	1353.0	1354.7	1366.6	1364.9	1366.6	1373.4
15°	1313.7	1320.5	1325.7	1325.7	1335.9	1330.8	1335.9	1347.8	1344.4	1351.2	1359.8
17.5°	1286.4	1293.2	1300.1	1301.8	1312.0	1308.6	1315.4	1327.4	1327.4	1330.8	1341.0
20°	1260.8	1269.4	1272.8	1277.9	1288.1	1286.4	1289.8	1303.5	1303.5	1308.6	1318.8
22.5°	1226.7	1235.2	1242.1	1247.2	1255.7	1255.7	1260.8	1272.8	1272.8	1276.2	1286.4
25°	1189.2	1199.4	1204.5	1209.6	1218.2	1216.5	1221.6	1231.8	1233.5	1236.9	1247.2
27.5°	1141.4	1149.9	1156.7	1160.2	1172.1	1165.3	1170.4	1182.3	1180.6	1184.0	1192.6
30°	1081.7	1090.2	1097.0	1097.0	1107.3	1107.3	1112.4	1117.5	1117.5	1120.9	1127.7
32.5°	1011.7	1022.0	1022.0	1027.1	1033.9	1027.1	1033.9	1040.7	1037.3	1042.4	1047.6
35°	931.5	936.7	938.4	938.4	943.5	941.8	940.1	945.2	941.8	950.3	955.4
37.5°	834.3	841.1	837.7	841.1	839.4	834.3	834.3	842.8	836.0	837.7	842.8
40°	740.5	740.5	738.7	730.2	731.9	726.8	725.1	726.8	720.0	718.3	725.1
42.5°	643.2	641.5	636.4	624.4	626.1	617.6	610.8	610.8	607.4	605.7	607.4
45°	556.2	551.1	542.5	528.9	525.5	518.7	505.0	501.6	496.5	496.5	498.2
47.5°	476.0	469.2	455.5	440.2	431.6	423.1	409.5	404.4	395.8	392.4	395.8
50°	409.5	397.5	380.5	358.3	349.8	339.5	325.9	317.3	308.8	305.4	303.7
52.5°	348.0	331.0	313.9	286.6	279.8	269.6	250.8	242.3	233.7	226.9	226.9
55°	295.2	279.8	255.9	230.3	220.1	209.9	191.1	179.1	170.6	167.2	163.8
57.5°	247.4	230.3	208.1	180.8	170.6	160.4	141.6	129.7	121.1	116.0	112.6
60°	208.1	189.4	167.2	143.3	131.4	121.1	102.4	90.4	81.9	76.8	73.4
62.5°	170.6	155.3	133.1	110.9	100.7	90.4	75.1	63.1	54.6	51.2	46.1
65°	143.3	128.0	107.5	88.7	80.2	70.0	56.3	46.1	39.2	34.1	30.7
67.5°	116.0	104.1	87.0	70.0	61.4	54.6	42.7	34.1	27.3	23.9	22.2
70°	92.1	80.2	66.5	52.9	47.8	40.9	32.4	23.9	20.5	17.1	15.4
72.5°	68.2	59.7	49.5	39.2	34.1	30.7	22.2	18.8	13.6	11.9	10.2
75°	49.5	42.7	35.8	27.3	23.9	22.2	17.1	11.9	10.2	8.5	6.8
77.5°	34.1	30.7	23.9	18.8	17.1	15.4	11.9	8.5	6.8	5.1	5.1
80°	22.2	18.8	15.4	11.9	11.9	10.2	6.8	5.1	5.1	3.4	3.4
82.5°	13.6	11.9	10.2	8.5	6.8	6.8	5.1	3.4	3.4	1.7	1.7
85°	8.5	6.8	5.1	5.1	3.4	3.4	3.4	1.7	1.7	1.7	1.7
87.5°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	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



TEST NUMBER: P252280

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1411.0	1411.0	1414.4	1409.3	1412.7	1412.7	1416.1	1409.3	1412.7	1414.4	1417.8
5°	1404.1	1405.8	1409.3	1407.5	1409.3	1409.3	1412.7	1404.1	1411.0	1411.0	1416.1
7.5°	1397.3	1397.3	1400.7	1399.0	1402.4	1404.1	1407.5	1400.7	1407.5	1407.5	1412.7
10°	1388.8	1388.8	1393.9	1392.2	1397.3	1399.0	1404.1	1397.3	1404.1	1405.8	1411.0
12.5°	1376.8	1378.5	1383.7	1383.7	1388.8	1392.2	1397.3	1393.9	1402.4	1404.1	1411.0
15°	1363.2	1366.6	1373.4	1371.7	1376.8	1382.0	1388.8	1383.7	1395.6	1399.0	1405.8
17.5°	1346.1	1349.5	1354.7	1354.7	1359.8	1363.2	1371.7	1368.3	1378.5	1380.2	1388.8
20°	1320.5	1325.7	1332.5	1330.8	1335.9	1339.3	1346.1	1342.7	1353.0	1356.4	1364.9
22.5°	1289.8	1293.2	1298.4	1298.4	1303.5	1306.9	1313.7	1308.6	1318.8	1320.5	1327.4
25°	1248.9	1252.3	1255.7	1257.4	1262.5	1264.2	1267.6	1264.2	1272.8	1274.5	1283.0
27.5°	1196.0	1197.7	1202.8	1202.8	1206.2	1207.9	1213.1	1206.2	1218.2	1218.2	1223.3
30°	1132.9	1131.2	1138.0	1134.6	1138.0	1138.0	1143.1	1139.7	1148.2	1144.8	1149.9
32.5°	1049.3	1052.7	1052.7	1049.3	1056.1	1054.4	1054.4	1051.0	1056.1	1057.8	1061.2
35°	952.0	957.1	957.1	958.8	960.5	955.4	957.1	946.9	955.4	957.1	958.8
37.5°	846.2	841.1	844.5	839.4	847.9	837.7	837.7	830.9	837.7	837.7	839.4
40°	725.1	723.4	726.8	723.4	721.7	720.0	716.6	711.5	718.3	714.9	720.0
42.5°	610.8	609.1	609.1	605.7	604.0	604.0	600.6	597.1	595.4	595.4	604.0
45°	493.1	496.5	493.1	491.4	494.8	491.4	493.1	486.2	489.7	486.2	489.7
47.5°	394.1	395.8	392.4	389.0	394.1	389.0	389.0	383.9	390.7	390.7	387.3
50°	305.4	303.7	300.3	303.7	302.0	302.0	302.0	296.9	300.3	295.2	298.6
52.5°	225.2	223.5	223.5	221.8	223.5	221.8	221.8	220.1	220.1	218.4	220.1
55°	163.8	162.1	158.7	158.7	158.7	160.4	158.7	157.0	157.0	155.3	157.0
57.5°	110.9	107.5	107.5	107.5	107.5	105.8	105.8	104.1	105.8	104.1	105.8
60°	71.7	71.7	68.2	68.2	68.2	68.2	68.2	66.5	68.2	68.2	68.2
62.5°	44.4	44.4	42.7	40.9	42.7	40.9	40.9	40.9	42.7	40.9	42.7
65°	29.0	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
67.5°	20.5	18.8	18.8	18.8	18.8	18.8	18.8	17.1	18.8	18.8	18.8
70°	13.6	13.6	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	6.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	5.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	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	1.7	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: P252280

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1412.7	1414.4	1411.0	1412.7	1409.3	1412.7	1414.4	1417.8
5°	1409.3	1411.0	1407.5	1411.0	1407.5	1411.0	1412.7	1416.1
7.5°	1405.8	1409.3	1405.8	1409.3	1405.8	1409.3	1411.0	1414.4
10°	1405.8	1411.0	1407.5	1412.7	1407.5	1411.0	1414.4	1416.1
12.5°	1405.8	1411.0	1409.3	1412.7	1411.0	1414.4	1417.8	1421.2
15°	1402.4	1407.5	1404.1	1409.3	1407.5	1409.3	1416.1	1416.1
17.5°	1383.7	1388.8	1388.8	1392.2	1392.2	1397.3	1400.7	1404.1
20°	1359.8	1364.9	1363.2	1368.3	1368.3	1373.4	1376.8	1380.2
22.5°	1323.9	1330.8	1329.1	1334.2	1332.5	1335.9	1342.7	1341.0
25°	1277.9	1286.4	1284.7	1288.1	1286.4	1286.4	1289.8	1291.5
27.5°	1221.6	1226.7	1225.0	1228.4	1225.0	1228.4	1231.8	1233.5
30°	1148.2	1151.6	1149.9	1151.6	1149.9	1153.3	1155.0	1158.5
32.5°	1059.5	1064.6	1059.5	1062.9	1061.2	1061.2	1068.0	1064.6
35°	953.7	955.4	957.1	957.1	953.7	955.4	958.8	958.8
37.5°	836.0	844.5	834.3	839.4	837.7	837.7	837.7	842.8
40°	713.2	714.9	711.5	711.5	711.5	709.7	716.6	714.9
42.5°	597.1	598.8	597.1	592.0	593.7	593.7	598.8	592.0
45°	484.5	487.9	486.2	486.2	482.8	482.8	484.5	481.1
47.5°	383.9	387.3	382.2	383.9	380.5	383.9	382.2	385.6
50°	291.7	295.2	293.5	295.2	295.2	291.7	296.9	290.0
52.5°	218.4	220.1	218.4	216.7	215.0	215.0	218.4	216.7
55°	155.3	153.6	153.6	153.6	155.3	155.3	153.6	151.8
57.5°	104.1	104.1	102.4	102.4	104.1	100.7	102.4	100.7
60°	66.5	66.5	66.5	66.5	64.8	66.5	66.5	66.5
62.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
65°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
67.5°	17.1	18.8	18.8	18.8	17.1	17.1	17.1	17.1
70°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)