

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: P252278

Luminaire Tested: **LD6B30D010 EU6B30509030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252278
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 EU6B30509030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

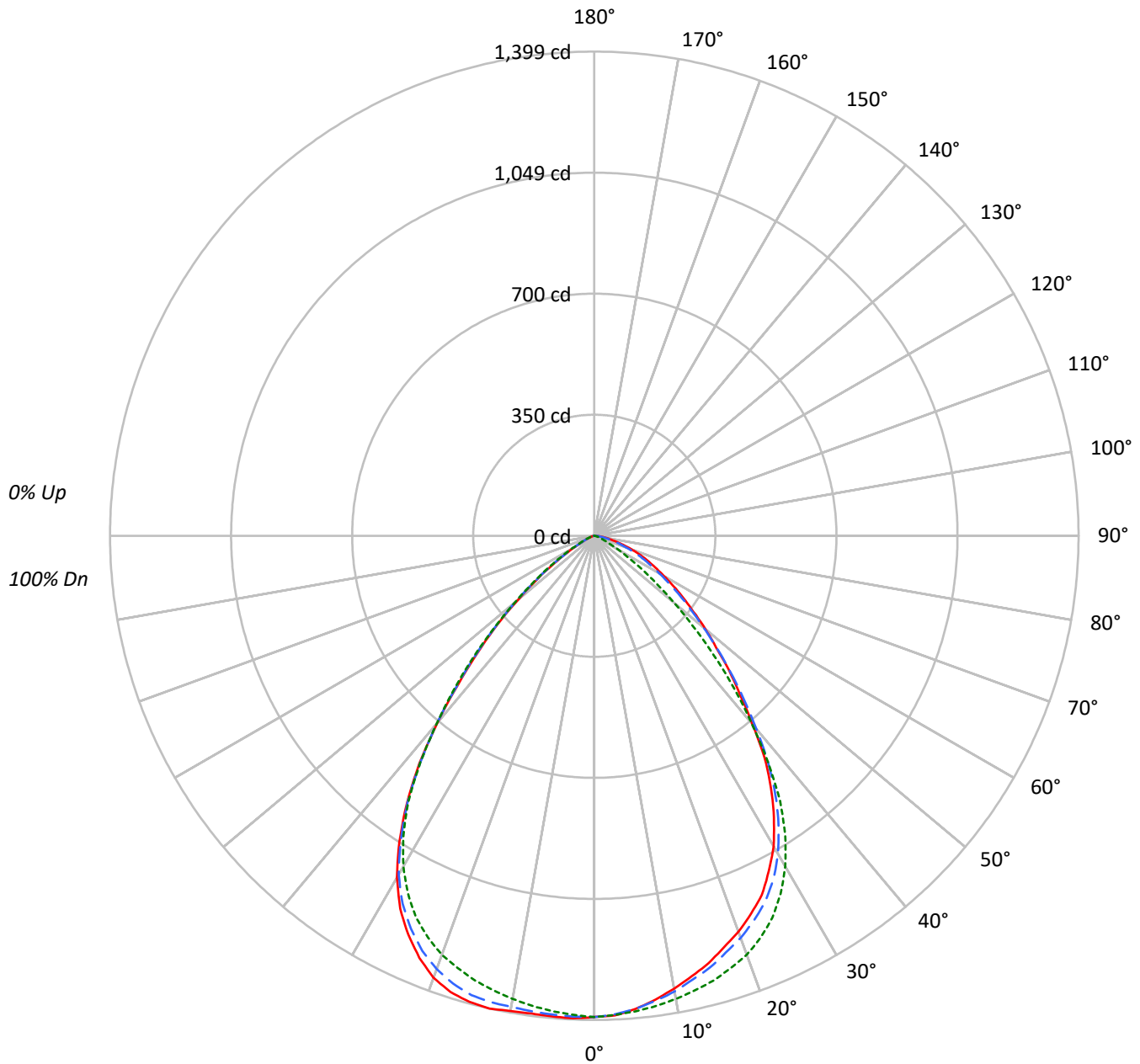
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	90724	90724	90724
5°	89859	90304	91293
10°	88009	90010	92348
15°	86326	89844	94154
20°	84535	89437	94331
25°	82452	87649	91522
30°	78060	83123	85910
35°	70891	74507	75176
40°	60502	60221	59931
45°	50828	45090	43696
50°	42446	30510	28977
55°	35727	18722	17005
60°	30246	9864	8547
65°	26182	5187	4153
70°	21784	3205	2251
75°	16082	2117	1260
80°	12624	1277	639
85°	10031	1273	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	5.6
10°-20°	375.3	16.1
20°-30°	554.1	23.8
30°-40°	571.1	24.5
40°-50°	394.4	16.9
50°-60°	194.4	8.3
60°-70°	78.8	3.4
70°-80°	28.1	1.2
80°-90°	5.8	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°	1060.4	45.5
0°-40°	1631.5	69.9
0°-60°	2220.3	95.2
0°-90°	2333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1391	1391	1391	1391	1391	
5°	1372	1372	1379	1389	1394	130
15°	1278	1292	1330	1374	1394	360
25°	1145	1167	1218	1253	1271	524
35°	890	912	936	940	944	552
45°	551	554	489	482	474	426
55°	314	302	165	154	150	284
65°	170	153	34	27	27	168
75°	64	54	8	5	5	72
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°	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6
2.5°	1387.3	1382.2	1385.6	1378.9	1387.3	1378.9	1380.5	1382.2	1380.5	1382.2	1383.9
5°	1372.1	1367.1	1372.1	1363.7	1372.1	1367.1	1367.1	1368.8	1368.8	1370.5	1372.1
7.5°	1352.0	1346.9	1352.0	1343.6	1353.7	1348.6	1348.6	1352.0	1350.3	1352.0	1355.3
10°	1328.5	1321.8	1326.8	1321.8	1331.8	1325.1	1328.5	1328.5	1328.5	1333.5	1336.9
12.5°	1303.3	1296.6	1303.3	1294.9	1305.0	1299.9	1301.6	1306.6	1308.3	1311.7	1313.4
15°	1278.1	1269.7	1273.0	1268.0	1278.1	1273.0	1274.7	1281.4	1281.4	1286.5	1291.5
17.5°	1246.2	1239.5	1246.2	1239.5	1247.9	1244.5	1247.9	1252.9	1252.9	1257.9	1263.0
20°	1217.6	1210.9	1215.9	1210.9	1221.0	1215.9	1217.6	1224.3	1226.0	1231.1	1236.1
22.5°	1182.4	1177.3	1180.7	1175.6	1185.7	1182.4	1184.0	1190.8	1192.4	1195.8	1204.2
25°	1145.4	1135.3	1140.4	1137.0	1147.1	1142.0	1145.4	1152.1	1155.5	1160.5	1167.2
27.5°	1091.7	1086.6	1090.0	1090.0	1098.4	1093.3	1095.0	1101.7	1106.8	1111.8	1120.2
30°	1036.2	1027.8	1031.2	1032.9	1039.6	1036.2	1039.6	1046.3	1048.0	1054.7	1061.4
32.5°	965.7	962.3	969.1	965.7	969.1	969.1	970.7	975.8	979.1	982.5	990.9
35°	890.1	883.4	890.1	886.8	895.2	890.1	895.2	900.2	900.2	906.9	912.0
37.5°	807.8	799.4	802.8	802.8	806.2	804.5	804.5	812.9	814.5	819.6	824.6
40°	710.4	707.1	713.8	712.1	713.8	713.8	715.5	720.5	723.9	725.5	727.2
42.5°	623.1	624.8	626.4	626.4	626.4	626.4	626.4	633.2	631.5	636.5	638.2
45°	550.9	544.2	547.5	545.8	550.9	545.8	550.9	555.9	552.5	557.6	554.2
47.5°	477.0	477.0	477.0	475.3	478.7	477.0	480.3	482.0	482.0	482.0	480.3
50°	418.2	413.2	414.8	414.8	416.5	414.8	418.2	419.9	419.9	416.5	409.8
52.5°	361.1	359.4	359.4	362.8	362.8	361.1	361.1	361.1	361.1	356.1	352.7
55°	314.1	310.7	312.4	312.4	312.4	312.4	314.1	312.4	312.4	307.3	302.3
57.5°	272.1	268.7	268.7	268.7	270.4	268.7	268.7	268.7	267.0	262.0	255.3
60°	231.8	230.1	231.8	231.8	233.4	231.8	231.8	231.8	228.4	223.4	216.7
62.5°	198.2	198.2	198.2	199.9	199.9	198.2	198.2	196.5	194.8	188.1	181.4
65°	169.6	167.9	169.6	169.6	171.3	171.3	169.6	167.9	166.3	159.6	152.8
67.5°	141.1	139.4	141.1	141.1	142.8	141.1	141.1	141.1	136.0	132.7	126.0
70°	114.2	112.5	112.5	112.5	114.2	110.8	112.5	112.5	109.2	104.1	97.4
72.5°	87.3	87.3	87.3	87.3	87.3	87.3	85.7	85.7	82.3	77.3	73.9
75°	63.8	63.8	65.5	65.5	63.8	63.8	63.8	62.1	60.5	57.1	53.7
77.5°	47.0	47.0	47.0	47.0	45.3	45.3	45.3	43.7	42.0	40.3	36.9
80°	33.6	33.6	33.6	31.9	33.6	31.9	31.9	31.9	28.6	26.9	25.2
82.5°	23.5	21.8	21.8	21.8	21.8	21.8	21.8	20.2	20.2	18.5	16.8
85°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	11.8	10.1	10.1
87.5°	6.7	8.4	8.4	8.4	8.4	8.4	8.4	6.7	6.7	6.7	5.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6
2.5°	1383.9	1383.9	1387.3	1382.2	1390.6	1385.6	1383.9	1392.3	1387.3	1385.6	1388.9
5°	1372.1	1373.8	1375.5	1372.1	1380.5	1375.5	1375.5	1383.9	1380.5	1378.9	1383.9
7.5°	1357.0	1358.7	1362.1	1360.4	1367.1	1363.7	1365.4	1373.8	1370.5	1370.5	1375.5
10°	1338.5	1341.9	1345.3	1345.3	1353.7	1350.3	1350.3	1360.4	1357.0	1358.7	1365.4
12.5°	1316.7	1321.8	1326.8	1328.5	1336.9	1331.8	1333.5	1345.3	1343.6	1345.3	1352.0
15°	1293.2	1299.9	1305.0	1305.0	1315.0	1310.0	1315.0	1326.8	1323.4	1330.2	1338.5
17.5°	1266.3	1273.0	1279.8	1281.4	1291.5	1288.2	1294.9	1306.6	1306.6	1310.0	1320.1
20°	1241.1	1249.5	1252.9	1257.9	1268.0	1266.3	1269.7	1283.1	1283.1	1288.2	1298.2
22.5°	1207.5	1215.9	1222.7	1227.7	1236.1	1236.1	1241.1	1252.9	1252.9	1256.3	1266.3
25°	1170.6	1180.7	1185.7	1190.8	1199.2	1197.5	1202.5	1212.6	1214.3	1217.6	1227.7
27.5°	1123.6	1132.0	1138.7	1142.0	1153.8	1147.1	1152.1	1163.9	1162.2	1165.6	1174.0
30°	1064.8	1073.2	1079.9	1079.9	1090.0	1090.0	1095.0	1100.1	1100.1	1103.4	1110.1
32.5°	995.9	1006.0	1006.0	1011.0	1017.8	1011.0	1017.8	1024.5	1021.1	1026.2	1031.2
35°	917.0	922.0	923.7	923.7	928.8	927.1	925.4	930.4	927.1	935.5	940.5
37.5°	821.3	828.0	824.6	828.0	826.3	821.3	821.3	829.7	822.9	824.6	829.7
40°	728.9	728.9	727.2	718.8	720.5	715.5	713.8	715.5	708.7	707.1	713.8
42.5°	633.2	631.5	626.4	614.7	616.4	608.0	601.3	601.3	597.9	596.2	597.9
45°	547.5	542.5	534.1	520.6	517.3	510.6	497.1	493.8	488.7	488.7	490.4
47.5°	468.6	461.9	448.4	433.3	424.9	416.5	403.1	398.0	389.6	386.3	389.6
50°	403.1	391.3	374.5	352.7	344.3	334.2	320.8	312.4	304.0	300.6	298.9
52.5°	342.6	325.8	309.0	282.2	275.4	265.4	246.9	238.5	230.1	223.4	223.4
55°	290.6	275.4	251.9	226.7	216.7	206.6	188.1	176.3	167.9	164.6	161.2
57.5°	243.5	226.7	204.9	178.0	167.9	157.9	139.4	127.6	119.2	114.2	110.8
60°	204.9	186.4	164.6	141.1	129.3	119.2	100.8	89.0	80.6	75.6	72.2
62.5°	167.9	152.8	131.0	109.2	99.1	89.0	73.9	62.1	53.7	50.4	45.3
65°	141.1	126.0	105.8	87.3	78.9	68.9	55.4	45.3	38.6	33.6	30.2
67.5°	114.2	102.4	85.7	68.9	60.5	53.7	42.0	33.6	26.9	23.5	21.8
70°	90.7	78.9	65.5	52.1	47.0	40.3	31.9	23.5	20.2	16.8	15.1
72.5°	67.2	58.8	48.7	38.6	33.6	30.2	21.8	18.5	13.4	11.8	10.1
75°	48.7	42.0	35.3	26.9	23.5	21.8	16.8	11.8	10.1	8.4	6.7
77.5°	33.6	30.2	23.5	18.5	16.8	15.1	11.8	8.4	6.7	5.0	5.0
80°	21.8	18.5	15.1	11.8	11.8	10.1	6.7	5.0	5.0	3.4	3.4
82.5°	13.4	11.8	10.1	8.4	6.7	6.7	5.0	3.4	3.4	1.7	1.7
85°	8.4	6.7	5.0	5.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6
2.5°	1388.9	1388.9	1392.3	1387.3	1390.6	1390.6	1394.0	1387.3	1390.6	1392.3	1395.7
5°	1382.2	1383.9	1387.3	1385.6	1387.3	1387.3	1390.6	1382.2	1388.9	1388.9	1394.0
7.5°	1375.5	1375.5	1378.9	1377.2	1380.5	1382.2	1385.6	1378.9	1385.6	1385.6	1390.6
10°	1367.1	1367.1	1372.1	1370.5	1375.5	1377.2	1382.2	1375.5	1382.2	1383.9	1388.9
12.5°	1355.3	1357.0	1362.1	1362.1	1367.1	1370.5	1375.5	1372.1	1380.5	1382.2	1388.9
15°	1341.9	1345.3	1352.0	1350.3	1355.3	1360.4	1367.1	1362.1	1373.8	1377.2	1383.9
17.5°	1325.1	1328.5	1333.5	1333.5	1338.5	1341.9	1350.3	1346.9	1357.0	1358.7	1367.1
20°	1299.9	1305.0	1311.7	1310.0	1315.0	1318.4	1325.1	1321.8	1331.8	1335.2	1343.6
22.5°	1269.7	1273.0	1278.1	1278.1	1283.1	1286.5	1293.2	1288.2	1298.2	1299.9	1306.6
25°	1229.4	1232.7	1236.1	1237.8	1242.8	1244.5	1247.9	1244.5	1252.9	1254.6	1263.0
27.5°	1177.3	1179.0	1184.0	1184.0	1187.4	1189.1	1194.1	1187.4	1199.2	1199.2	1204.2
30°	1115.2	1113.5	1120.2	1116.9	1120.2	1120.2	1125.3	1121.9	1130.3	1126.9	1132.0
32.5°	1032.9	1036.2	1036.2	1032.9	1039.6	1037.9	1037.9	1034.6	1039.6	1041.3	1044.6
35°	937.2	942.2	942.2	943.9	945.5	940.5	942.2	932.1	940.5	942.2	943.9
37.5°	833.0	828.0	831.3	826.3	834.7	824.6	824.6	817.9	824.6	824.6	826.3
40°	713.8	712.1	715.5	712.1	710.4	708.7	705.4	700.3	707.1	703.7	708.7
42.5°	601.3	599.6	599.6	596.2	594.5	594.5	591.2	587.8	586.1	586.1	594.5
45°	485.4	488.7	485.4	483.7	487.0	483.7	485.4	478.7	482.0	478.7	482.0
47.5°	388.0	389.6	386.3	382.9	388.0	382.9	382.9	377.9	384.6	384.6	381.2
50°	300.6	298.9	295.6	298.9	297.3	297.3	297.3	292.2	295.6	290.6	293.9
52.5°	221.7	220.0	220.0	218.3	220.0	218.3	218.3	216.7	216.7	215.0	216.7
55°	161.2	159.6	156.2	156.2	156.2	157.9	156.2	154.5	154.5	152.8	154.5
57.5°	109.2	105.8	105.8	105.8	105.8	104.1	104.1	102.4	104.1	102.4	104.1
60°	70.5	70.5	67.2	67.2	67.2	67.2	67.2	65.5	67.2	67.2	67.2
62.5°	43.7	43.7	42.0	40.3	42.0	40.3	40.3	40.3	42.0	40.3	42.0
65°	28.6	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
67.5°	20.2	18.5	18.5	18.5	18.5	18.5	18.5	16.8	18.5	18.5	18.5
70°	13.4	13.4	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	6.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	5.0	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: P252278

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6	1390.6
2.5°	1390.6	1392.3	1388.9	1390.6	1387.3	1390.6	1392.3	1395.7
5°	1387.3	1388.9	1385.6	1388.9	1385.6	1388.9	1390.6	1394.0
7.5°	1383.9	1387.3	1383.9	1387.3	1383.9	1387.3	1388.9	1392.3
10°	1383.9	1388.9	1385.6	1390.6	1385.6	1388.9	1392.3	1394.0
12.5°	1383.9	1388.9	1387.3	1390.6	1388.9	1392.3	1395.7	1399.0
15°	1380.5	1385.6	1382.2	1387.3	1385.6	1387.3	1394.0	1394.0
17.5°	1362.1	1367.1	1367.1	1370.5	1370.5	1375.5	1378.9	1382.2
20°	1338.5	1343.6	1341.9	1346.9	1346.9	1352.0	1355.3	1358.7
22.5°	1303.3	1310.0	1308.3	1313.4	1311.7	1315.0	1321.8	1320.1
25°	1257.9	1266.3	1264.7	1268.0	1266.3	1266.3	1269.7	1271.4
27.5°	1202.5	1207.5	1205.9	1209.2	1205.9	1209.2	1212.6	1214.3
30°	1130.3	1133.7	1132.0	1133.7	1132.0	1135.3	1137.0	1140.4
32.5°	1043.0	1048.0	1043.0	1046.3	1044.6	1044.6	1051.4	1048.0
35°	938.8	940.5	942.2	942.2	938.8	940.5	943.9	943.9
37.5°	822.9	831.3	821.3	826.3	824.6	824.6	824.6	829.7
40°	702.0	703.7	700.3	700.3	700.3	698.7	705.4	703.7
42.5°	587.8	589.5	587.8	582.8	584.5	584.5	589.5	582.8
45°	477.0	480.3	478.7	478.7	475.3	475.3	477.0	473.6
47.5°	377.9	381.2	376.2	377.9	374.5	377.9	376.2	379.6
50°	287.2	290.6	288.9	290.6	290.6	287.2	292.2	285.5
52.5°	215.0	216.7	215.0	213.3	211.6	211.6	215.0	213.3
55°	152.8	151.2	151.2	151.2	152.8	152.8	151.2	149.5
57.5°	102.4	102.4	100.8	100.8	102.4	99.1	100.8	99.1
60°	65.5	65.5	65.5	65.5	63.8	65.5	65.5	65.5
62.5°	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
65°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
67.5°	16.8	18.5	18.5	18.5	16.8	16.8	16.8	16.8
70°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)