

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: P252279

Luminaire Tested: **LD6B30D010 EU6B30509035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252279
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 EU6B30509035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2366.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

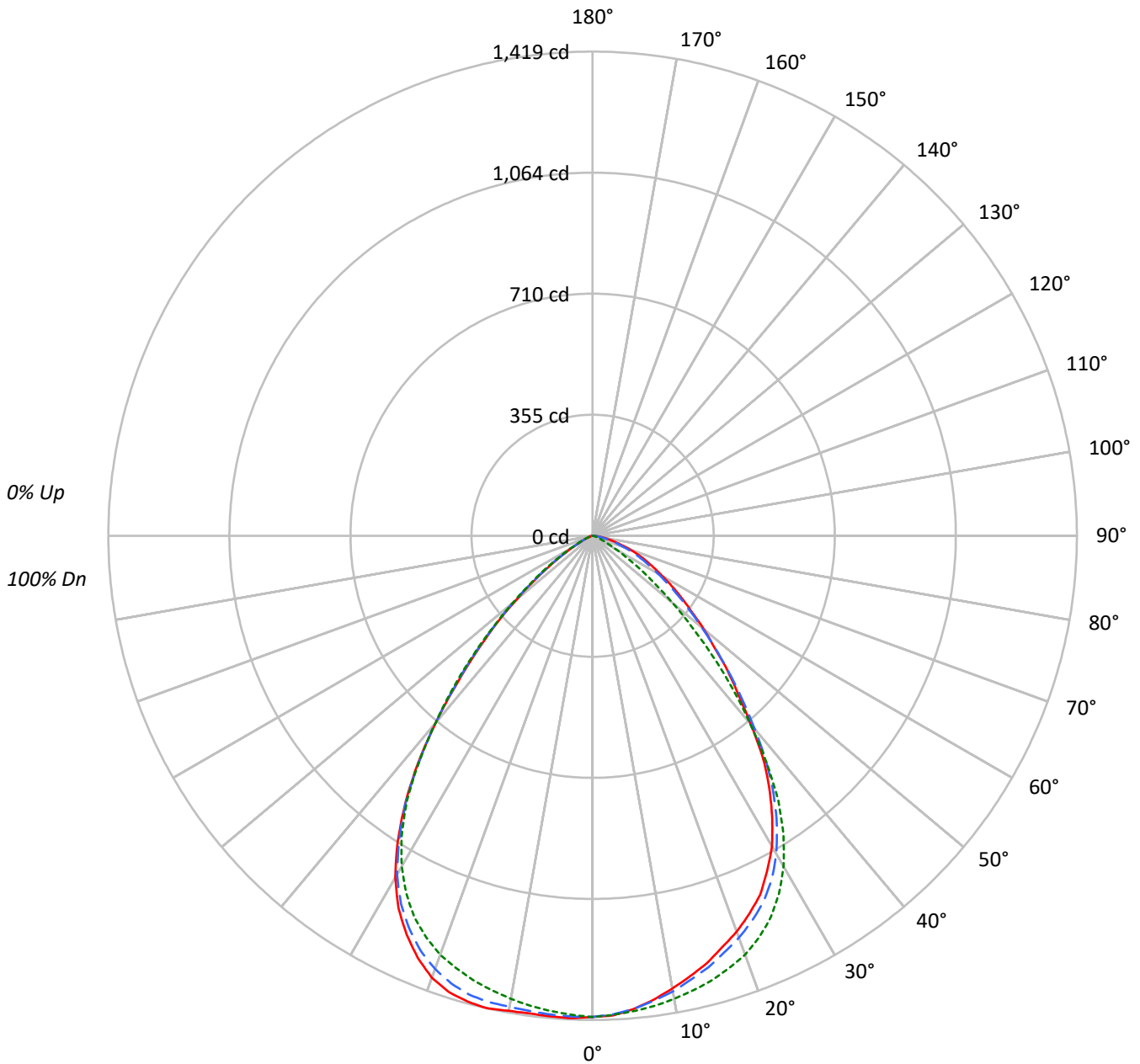
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	92009	92009	92009
5°	91129	91581	92583
10°	89255	91282	93653
15°	87548	91114	95484
20°	85729	90700	95664
25°	83618	88887	92818
30°	79168	84298	87123
35°	71895	75558	76235
40°	61362	61072	60783
45°	51548	45726	44314
50°	43045	30946	29393
55°	36227	18984	17244
60°	30663	9995	8664
65°	26552	5264	4214
70°	22089	3243	2270
75°	16309	2143	1286
80°	12812	1277	639
85°	10180	1273	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	5.6
10°-20°	380.6	16.1
20°-30°	562.0	23.8
30°-40°	579.1	24.5
40°-50°	400.0	16.9
50°-60°	197.2	8.3
60°-70°	79.9	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°	1075.4	45.5
0°-40°	1654.6	69.9
0°-60°	2251.7	95.2
0°-90°	2366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1410	1410	1410	1410	1410	
5°	1392	1392	1398	1409	1414	131
15°	1296	1310	1349	1393	1414	365
25°	1162	1184	1235	1271	1289	531
35°	903	925	949	954	957	559
45°	559	562	496	489	480	432
55°	318	307	167	157	152	288
65°	172	155	34	27	27	171
75°	65	54	8	5	5	73
85°	14	10	2	0	0	17
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°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1406.9	1401.8	1405.2	1398.4	1406.9	1398.4	1400.1	1401.8	1400.1	1401.8	1403.5
5°	1391.5	1386.4	1391.5	1383.0	1391.5	1386.4	1386.4	1388.1	1388.1	1389.8	1391.5
7.5°	1371.1	1366.0	1371.1	1362.6	1372.8	1367.7	1367.7	1371.1	1369.4	1371.1	1374.5
10°	1347.3	1340.4	1345.6	1340.4	1350.7	1343.9	1347.3	1347.3	1347.3	1352.4	1355.8
12.5°	1321.7	1314.9	1321.7	1313.2	1323.4	1318.3	1320.0	1325.1	1326.8	1330.2	1331.9
15°	1296.2	1287.6	1291.1	1285.9	1296.2	1291.1	1292.8	1299.6	1299.6	1304.7	1309.8
17.5°	1263.8	1257.0	1263.8	1257.0	1265.5	1262.1	1265.5	1270.6	1270.6	1275.7	1280.8
20°	1234.8	1228.0	1233.1	1228.0	1238.3	1233.1	1234.8	1241.7	1243.4	1248.5	1253.6
22.5°	1199.1	1194.0	1197.4	1192.3	1202.5	1199.1	1200.8	1207.6	1209.3	1212.7	1221.2
25°	1161.6	1151.4	1156.5	1153.1	1163.3	1158.2	1161.6	1168.4	1171.8	1176.9	1183.8
27.5°	1107.1	1102.0	1105.4	1105.4	1113.9	1108.8	1110.5	1117.3	1122.4	1127.5	1136.1
30°	1050.9	1042.4	1045.8	1047.5	1054.3	1050.9	1054.3	1061.1	1062.8	1069.6	1076.4
32.5°	979.4	976.0	982.8	979.4	982.8	982.8	984.5	989.6	993.0	996.4	1004.9
35°	902.7	895.9	902.7	899.3	907.8	902.7	907.8	912.9	912.9	919.7	924.9
37.5°	819.3	810.7	814.1	814.1	817.6	815.9	815.9	824.4	826.1	831.2	836.3
40°	720.5	717.1	723.9	722.2	723.9	723.9	725.6	730.7	734.1	735.8	737.5
42.5°	631.9	633.6	635.3	635.3	635.3	635.3	635.3	642.1	640.4	645.5	647.2
45°	558.7	551.8	555.3	553.6	558.7	553.6	558.7	563.8	560.4	565.5	562.1
47.5°	483.7	483.7	483.7	482.0	485.4	483.7	487.1	488.8	488.8	488.8	487.1
50°	424.1	419.0	420.7	420.7	422.4	420.7	424.1	425.8	425.8	422.4	415.6
52.5°	366.2	364.5	364.5	367.9	367.9	366.2	366.2	366.2	366.2	361.1	357.7
55°	318.5	315.1	316.8	316.8	316.8	316.8	318.5	316.8	316.8	311.7	306.6
57.5°	275.9	272.5	272.5	272.5	274.2	272.5	272.5	272.5	270.8	265.7	258.9
60°	235.0	233.3	235.0	235.0	236.8	235.0	235.0	235.0	231.6	226.5	219.7
62.5°	201.0	201.0	201.0	202.7	202.7	201.0	201.0	199.3	197.6	190.8	183.9
65°	172.0	170.3	172.0	172.0	173.7	173.7	172.0	170.3	168.6	161.8	155.0
67.5°	143.1	141.4	143.1	143.1	144.8	143.1	143.1	143.1	138.0	134.6	127.7
70°	115.8	114.1	114.1	114.1	115.8	112.4	114.1	114.1	110.7	105.6	98.8
72.5°	88.6	88.6	88.6	88.6	88.6	88.6	86.9	86.9	83.5	78.3	74.9
75°	64.7	64.7	66.4	66.4	64.7	64.7	64.7	63.0	61.3	57.9	54.5
77.5°	47.7	47.7	47.7	47.7	46.0	46.0	46.0	44.3	42.6	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	25.5
82.5°	23.8	22.1	22.1	22.1	22.1	22.1	22.1	20.4	20.4	18.7	17.0
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1403.5	1403.5	1406.9	1401.8	1410.3	1405.2	1403.5	1412.0	1406.9	1405.2	1408.6
5°	1391.5	1393.2	1395.0	1391.5	1400.1	1395.0	1395.0	1403.5	1400.1	1398.4	1403.5
7.5°	1376.2	1377.9	1381.3	1379.6	1386.4	1383.0	1384.7	1393.2	1389.8	1389.8	1395.0
10°	1357.5	1360.9	1364.3	1364.3	1372.8	1369.4	1369.4	1379.6	1376.2	1377.9	1384.7
12.5°	1335.3	1340.4	1345.6	1347.3	1355.8	1350.7	1352.4	1364.3	1362.6	1364.3	1371.1
15°	1311.5	1318.3	1323.4	1323.4	1333.6	1328.5	1333.6	1345.6	1342.2	1349.0	1357.5
17.5°	1284.2	1291.1	1297.9	1299.6	1309.8	1306.4	1313.2	1325.1	1325.1	1328.5	1338.7
20°	1258.7	1267.2	1270.6	1275.7	1285.9	1284.2	1287.6	1301.3	1301.3	1306.4	1316.6
22.5°	1224.6	1233.1	1240.0	1245.1	1253.6	1253.6	1258.7	1270.6	1270.6	1274.0	1284.2
25°	1187.2	1197.4	1202.5	1207.6	1216.1	1214.4	1219.5	1229.7	1231.4	1234.8	1245.1
27.5°	1139.5	1148.0	1154.8	1158.2	1170.1	1163.3	1168.4	1180.3	1178.6	1182.0	1190.6
30°	1079.9	1088.4	1095.2	1095.2	1105.4	1105.4	1110.5	1115.6	1115.6	1119.0	1125.8
32.5°	1010.0	1020.2	1020.2	1025.3	1032.2	1025.3	1032.2	1039.0	1035.6	1040.7	1045.8
35°	930.0	935.1	936.8	936.8	941.9	940.2	938.5	943.6	940.2	948.7	953.8
37.5°	832.9	839.7	836.3	839.7	838.0	832.9	832.9	841.4	834.6	836.3	841.4
40°	739.2	739.2	737.5	729.0	730.7	725.6	723.9	725.6	718.8	717.1	723.9
42.5°	642.1	640.4	635.3	623.4	625.1	616.6	609.8	609.8	606.4	604.6	606.4
45°	555.3	550.1	541.6	528.0	524.6	517.8	504.2	500.8	495.6	495.6	497.3
47.5°	475.2	468.4	454.8	439.4	430.9	422.4	408.8	403.7	395.2	391.7	395.2
50°	408.8	396.9	379.8	357.7	349.2	338.9	325.3	316.8	308.3	304.9	303.2
52.5°	347.5	330.4	313.4	286.1	279.3	269.1	250.4	241.9	233.3	226.5	226.5
55°	294.7	279.3	255.5	229.9	219.7	209.5	190.8	178.8	170.3	166.9	163.5
57.5°	247.0	229.9	207.8	180.5	170.3	160.1	141.4	129.4	120.9	115.8	112.4
60°	207.8	189.1	166.9	143.1	131.1	120.9	102.2	90.3	81.8	76.6	73.2
62.5°	170.3	155.0	132.9	110.7	100.5	90.3	74.9	63.0	54.5	51.1	46.0
65°	143.1	127.7	107.3	88.6	80.1	69.8	56.2	46.0	39.2	34.1	30.7
67.5°	115.8	103.9	86.9	69.8	61.3	54.5	42.6	34.1	27.3	23.8	22.1
70°	92.0	80.1	66.4	52.8	47.7	40.9	32.4	23.8	20.4	17.0	15.3
72.5°	68.1	59.6	49.4	39.2	34.1	30.7	22.1	18.7	13.6	11.9	10.2
75°	49.4	42.6	35.8	27.3	23.8	22.1	17.0	11.9	10.2	8.5	6.8
77.5°	34.1	30.7	23.8	18.7	17.0	15.3	11.9	8.5	6.8	5.1	5.1
80°	22.1	18.7	15.3	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1408.6	1408.6	1412.0	1406.9	1410.3	1410.3	1413.7	1406.9	1410.3	1412.0	1415.4
5°	1401.8	1403.5	1406.9	1405.2	1406.9	1406.9	1410.3	1401.8	1408.6	1408.6	1413.7
7.5°	1395.0	1395.0	1398.4	1396.7	1400.1	1401.8	1405.2	1398.4	1405.2	1405.2	1410.3
10°	1386.4	1386.4	1391.5	1389.8	1395.0	1396.7	1401.8	1395.0	1401.8	1403.5	1408.6
12.5°	1374.5	1376.2	1381.3	1381.3	1386.4	1389.8	1395.0	1391.5	1400.1	1401.8	1408.6
15°	1360.9	1364.3	1371.1	1369.4	1374.5	1379.6	1386.4	1381.3	1393.2	1396.7	1403.5
17.5°	1343.9	1347.3	1352.4	1352.4	1357.5	1360.9	1369.4	1366.0	1376.2	1377.9	1386.4
20°	1318.3	1323.4	1330.2	1328.5	1333.6	1337.0	1343.9	1340.4	1350.7	1354.1	1362.6
22.5°	1287.6	1291.1	1296.2	1296.2	1301.3	1304.7	1311.5	1306.4	1316.6	1318.3	1325.1
25°	1246.8	1250.2	1253.6	1255.3	1260.4	1262.1	1265.5	1262.1	1270.6	1272.3	1280.8
27.5°	1194.0	1195.7	1200.8	1200.8	1204.2	1205.9	1211.0	1204.2	1216.1	1216.1	1221.2
30°	1131.0	1129.2	1136.1	1132.7	1136.1	1136.1	1141.2	1137.8	1146.3	1142.9	1148.0
32.5°	1047.5	1050.9	1050.9	1047.5	1054.3	1052.6	1052.6	1049.2	1054.3	1056.0	1059.4
35°	950.4	955.5	955.5	957.2	958.9	953.8	955.5	945.3	953.8	955.5	957.2
37.5°	844.8	839.7	843.1	838.0	846.5	836.3	836.3	829.5	836.3	836.3	838.0
40°	723.9	722.2	725.6	722.2	720.5	718.8	715.4	710.3	717.1	713.7	718.8
42.5°	609.8	608.1	608.1	604.6	602.9	602.9	599.5	596.1	594.4	594.4	602.9
45°	492.2	495.6	492.2	490.5	493.9	490.5	492.2	485.4	488.8	485.4	488.8
47.5°	393.4	395.2	391.7	388.3	393.4	388.3	388.3	383.2	390.0	390.0	386.6
50°	304.9	303.2	299.8	303.2	301.5	301.5	301.5	296.4	299.8	294.7	298.1
52.5°	224.8	223.1	223.1	221.4	223.1	221.4	221.4	219.7	219.7	218.0	219.7
55°	163.5	161.8	158.4	158.4	158.4	160.1	158.4	156.7	156.7	155.0	156.7
57.5°	110.7	107.3	107.3	107.3	107.3	105.6	105.6	103.9	105.6	103.9	105.6
60°	71.5	71.5	68.1	68.1	68.1	68.1	68.1	66.4	68.1	68.1	68.1
62.5°	44.3	44.3	42.6	40.9	42.6	40.9	40.9	40.9	42.6	40.9	42.6
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°	20.4	18.7	18.7	18.7	18.7	18.7	18.7	17.0	18.7	18.7	18.7
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: P252279

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1410.3	1412.0	1408.6	1410.3	1406.9	1410.3	1412.0	1415.4
5°	1406.9	1408.6	1405.2	1408.6	1405.2	1408.6	1410.3	1413.7
7.5°	1403.5	1406.9	1403.5	1406.9	1403.5	1406.9	1408.6	1412.0
10°	1403.5	1408.6	1405.2	1410.3	1405.2	1408.6	1412.0	1413.7
12.5°	1403.5	1408.6	1406.9	1410.3	1408.6	1412.0	1415.4	1418.8
15°	1400.1	1405.2	1401.8	1406.9	1405.2	1406.9	1413.7	1413.7
17.5°	1381.3	1386.4	1386.4	1389.8	1389.8	1395.0	1398.4	1401.8
20°	1357.5	1362.6	1360.9	1366.0	1366.0	1371.1	1374.5	1377.9
22.5°	1321.7	1328.5	1326.8	1331.9	1330.2	1333.6	1340.4	1338.7
25°	1275.7	1284.2	1282.5	1285.9	1284.2	1284.2	1287.6	1289.4
27.5°	1219.5	1224.6	1222.9	1226.3	1222.9	1226.3	1229.7	1231.4
30°	1146.3	1149.7	1148.0	1149.7	1148.0	1151.4	1153.1	1156.5
32.5°	1057.7	1062.8	1057.7	1061.1	1059.4	1059.4	1066.2	1062.8
35°	952.1	953.8	955.5	955.5	952.1	953.8	957.2	957.2
37.5°	834.6	843.1	832.9	838.0	836.3	836.3	836.3	841.4
40°	712.0	713.7	710.3	710.3	710.3	708.5	715.4	713.7
42.5°	596.1	597.8	596.1	591.0	592.7	592.7	597.8	591.0
45°	483.7	487.1	485.4	485.4	482.0	482.0	483.7	480.3
47.5°	383.2	386.6	381.5	383.2	379.8	383.2	381.5	384.9
50°	291.3	294.7	293.0	294.7	294.7	291.3	296.4	289.6
52.5°	218.0	219.7	218.0	216.3	214.6	214.6	218.0	216.3
55°	155.0	153.3	153.3	153.3	155.0	155.0	153.3	151.6
57.5°	103.9	103.9	102.2	102.2	103.9	100.5	102.2	100.5
60°	66.4	66.4	66.4	66.4	64.7	66.4	66.4	66.4
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°	17.0	18.7	18.7	18.7	17.0	17.0	17.0	17.0
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)