

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: P252483

Luminaire Tested: **LD6B30D010 EU6B30508050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252483
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 EU6B30508050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2597.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

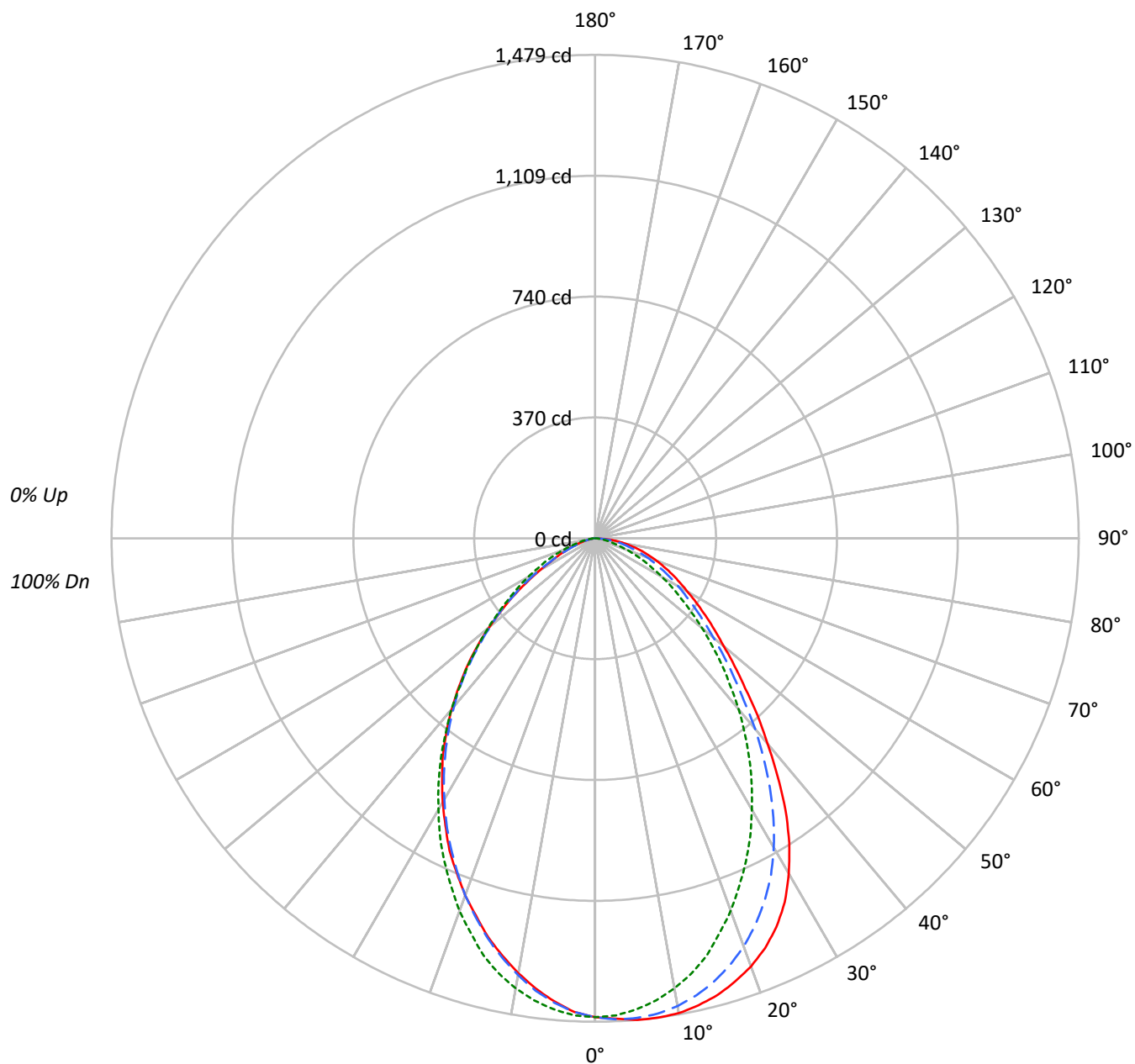
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95584	95584	95584
5°	96879	94751	93153
10°	97734	92607	89506
15°	97720	89196	85346
20°	96775	84202	80668
25°	94480	78514	75879
30°	89217	72200	70211
35°	80871	65475	64663
40°	69836	58228	58057
45°	59889	50690	51068
50°	52047	43369	42750
55°	46749	36569	34260
60°	42485	30794	25222
65°	39890	25441	18540
70°	38036	19800	13581
75°	36424	14368	9226
80°	34415	9956	6124
85°	30466	6063	3069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	5.3
10°-20°	375.4	14.5
20°-30°	521.1	20.1
30°-40°	539.7	20.8
40°-50°	443.5	17.1
50°-60°	304.8	11.7
60°-70°	175.2	6.7
70°-80°	80.6	3.1
80°-90°	19.6	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°	1033.5	39.8
0°-40°	1573.2	60.6
0°-60°	2321.6	89.4
0°-90°	2597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1465	1465	1465	1465	1465	
5°	1479	1473	1447	1426	1422	141
15°	1447	1404	1321	1268	1264	408
25°	1312	1225	1091	1044	1054	601
35°	1015	932	822	798	812	630
45°	649	600	549	543	554	506
55°	411	372	322	303	301	370
65°	258	226	165	116	120	257
75°	144	114	57	37	37	153
85°	41	28	8	4	4	46
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°	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1
2.5°	1471.2	1471.2	1475.3	1473.2	1477.3	1477.3	1477.3	1471.2	1475.3	1469.2	1473.2
5°	1479.3	1479.3	1481.4	1477.3	1481.4	1483.4	1477.3	1473.2	1479.3	1471.2	1473.2
7.5°	1479.3	1479.3	1481.4	1479.3	1481.4	1481.4	1479.3	1471.2	1475.3	1467.1	1467.1
10°	1475.3	1475.3	1475.3	1471.2	1473.2	1471.2	1471.2	1461.0	1463.1	1452.9	1452.9
12.5°	1463.1	1463.1	1463.1	1459.0	1459.0	1459.0	1452.9	1444.7	1446.8	1434.6	1432.5
15°	1446.8	1446.8	1444.7	1440.7	1440.7	1438.6	1434.6	1422.4	1422.4	1410.2	1404.0
17.5°	1422.4	1422.4	1422.4	1416.3	1414.2	1410.2	1406.1	1393.9	1389.8	1375.6	1369.5
20°	1393.9	1393.9	1391.8	1385.7	1381.7	1377.6	1369.5	1357.2	1353.2	1338.9	1328.8
22.5°	1357.2	1357.2	1353.2	1347.1	1343.0	1336.9	1328.8	1316.5	1310.4	1292.1	1279.9
25°	1312.5	1312.5	1306.4	1300.3	1292.1	1288.1	1282.0	1265.7	1259.6	1239.2	1225.0
27.5°	1255.5	1255.5	1247.4	1243.3	1233.1	1229.0	1220.9	1206.7	1198.5	1178.2	1163.9
30°	1184.3	1184.3	1180.2	1174.1	1166.0	1157.8	1151.7	1137.5	1125.3	1104.9	1092.7
32.5°	1104.9	1104.9	1102.9	1094.7	1080.5	1082.5	1072.4	1058.1	1047.9	1029.6	1015.4
35°	1015.4	1015.4	1009.3	1007.3	999.1	991.0	980.8	970.6	964.5	944.2	932.0
37.5°	915.7	915.7	915.7	907.5	903.5	897.4	891.3	877.0	873.0	860.7	844.5
40°	820.0	820.0	820.0	811.9	805.8	805.8	797.7	789.5	779.3	767.1	761.0
42.5°	734.6	734.6	728.5	724.4	716.3	714.2	712.2	702.0	695.9	683.7	673.5
45°	649.1	649.1	647.1	645.0	638.9	634.9	630.8	622.7	620.6	608.4	600.3
47.5°	577.9	577.9	571.8	571.8	567.7	563.7	559.6	553.5	551.4	541.3	533.1
50°	512.8	512.8	512.8	510.7	504.6	502.6	498.5	494.5	490.4	480.2	472.1
52.5°	459.9	459.9	455.8	455.8	449.7	447.7	443.6	439.5	435.5	425.3	419.2
55°	411.0	411.0	409.0	407.0	400.9	398.8	396.8	392.7	386.6	378.5	372.4
57.5°	366.3	366.3	364.2	362.2	358.1	358.1	354.1	350.0	345.9	337.8	329.6
60°	325.6	325.6	325.6	323.5	319.5	319.5	317.4	311.3	309.3	299.1	293.0
62.5°	291.0	291.0	291.0	288.9	286.9	282.8	282.8	276.7	272.7	266.6	258.4
65°	258.4	258.4	258.4	256.4	252.3	250.3	248.3	244.2	240.1	234.0	225.9
67.5°	227.9	227.9	227.9	225.9	221.8	219.8	217.7	215.7	209.6	203.5	195.3
70°	199.4	199.4	197.4	195.3	193.3	191.3	189.2	185.2	181.1	173.0	166.9
72.5°	170.9	170.9	170.9	166.9	164.8	164.8	160.8	158.7	154.6	146.5	140.4
75°	144.5	144.5	142.4	140.4	138.4	136.3	134.3	132.3	126.2	122.1	114.0
77.5°	118.0	118.0	116.0	114.0	114.0	111.9	109.9	105.8	103.8	97.7	91.6
80°	91.6	91.6	91.6	91.6	89.5	87.5	87.5	83.4	81.4	75.3	71.2
82.5°	69.2	69.2	67.2	67.2	65.1	63.1	63.1	61.0	59.0	54.9	50.9
85°	40.7	40.7	38.7	38.7	36.6	36.6	34.6	34.6	32.6	28.5	28.5
87.5°	12.2	12.2	14.2	14.2	12.2	12.2	12.2	12.2	12.2	10.2	10.2
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°	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1
2.5°	1469.2	1475.3	1467.1	1465.1	1473.2	1469.2	1467.1	1463.1	1465.1	1461.0	1454.9
5°	1467.1	1475.3	1465.1	1459.0	1469.2	1463.1	1459.0	1454.9	1454.9	1446.8	1442.7
7.5°	1461.0	1465.1	1454.9	1448.8	1454.9	1448.8	1444.7	1438.6	1436.6	1426.4	1420.3
10°	1444.7	1448.8	1436.6	1428.5	1434.6	1426.4	1420.3	1414.2	1410.2	1397.9	1389.8
12.5°	1422.4	1424.4	1410.2	1400.0	1404.0	1397.9	1387.8	1379.6	1375.6	1363.3	1353.2
15°	1391.8	1393.9	1377.6	1363.3	1367.4	1359.3	1347.1	1338.9	1332.8	1320.6	1306.4
17.5°	1355.2	1353.2	1334.9	1320.6	1322.7	1312.5	1300.3	1288.1	1279.9	1265.7	1255.5
20°	1314.5	1308.4	1288.1	1271.8	1273.8	1261.6	1247.4	1235.2	1225.0	1212.8	1198.5
22.5°	1263.6	1255.5	1237.2	1216.8	1218.9	1208.7	1188.4	1178.2	1168.0	1151.7	1139.5
25°	1208.7	1196.5	1178.2	1157.8	1157.8	1145.6	1129.3	1117.1	1107.0	1090.7	1076.4
27.5°	1143.6	1137.5	1113.1	1096.8	1094.7	1082.5	1068.3	1054.1	1041.8	1027.6	1013.4
30°	1072.4	1062.2	1043.9	1025.6	1021.5	1011.3	997.1	980.8	972.7	958.4	946.2
32.5°	997.1	986.9	966.6	948.2	946.2	938.1	925.9	909.6	901.4	891.3	883.1
35°	911.6	907.5	887.2	873.0	873.0	864.8	852.6	838.4	832.3	822.1	811.9
37.5°	830.2	824.1	805.8	793.6	793.6	783.4	771.2	765.1	759.0	750.9	744.8
40°	744.8	740.7	726.4	714.2	716.3	708.1	700.0	691.8	687.8	683.7	677.6
42.5°	665.4	661.3	651.2	641.0	641.0	634.9	626.7	620.6	616.6	610.5	608.4
45°	594.2	588.1	579.9	569.8	569.8	563.7	559.6	555.5	553.5	549.4	543.3
47.5°	525.0	520.9	512.8	502.6	502.6	502.6	494.5	488.4	488.4	484.3	482.3
50°	466.0	459.9	453.8	445.6	445.6	441.6	435.5	429.4	429.4	427.3	423.2
52.5°	411.0	407.0	398.8	390.7	390.7	386.6	380.5	378.5	376.4	370.3	368.3
55°	364.2	360.2	354.1	343.9	341.9	339.8	333.7	329.6	327.6	321.5	321.5
57.5°	321.5	317.4	307.3	301.2	299.1	295.1	288.9	284.9	282.8	278.8	274.7
60°	284.9	278.8	270.6	262.5	260.5	256.4	250.3	246.2	244.2	236.0	232.0
62.5°	250.3	244.2	236.0	227.9	225.9	221.8	213.7	209.6	205.5	197.4	193.3
65°	217.7	211.6	203.5	195.3	191.3	189.2	181.1	175.0	170.9	164.8	156.7
67.5°	187.2	181.1	173.0	162.8	162.8	156.7	150.6	144.5	138.4	132.3	126.2
70°	158.7	152.6	144.5	136.3	134.3	130.2	124.1	116.0	111.9	103.8	97.7
72.5°	132.3	126.2	118.0	109.9	107.8	103.8	97.7	89.5	83.4	77.3	71.2
75°	107.8	101.7	93.6	87.5	85.5	81.4	75.3	67.2	61.0	57.0	50.9
77.5°	85.5	79.4	73.3	67.2	65.1	61.0	54.9	50.9	44.8	40.7	34.6
80°	65.1	61.0	54.9	50.9	48.8	44.8	40.7	34.6	30.5	26.5	24.4
82.5°	46.8	42.7	38.7	32.6	32.6	28.5	26.5	22.4	18.3	16.3	14.2
85°	26.5	22.4	20.3	18.3	16.3	16.3	14.2	12.2	10.2	8.1	8.1
87.5°	8.1	8.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1
2.5°	1454.9	1457.0	1452.9	1457.0	1452.9	1454.9	1450.8	1454.9	1450.8	1454.9	1446.8
5°	1440.7	1440.7	1434.6	1438.6	1434.6	1436.6	1428.5	1430.5	1426.4	1430.5	1422.4
7.5°	1416.3	1418.3	1408.1	1412.2	1406.1	1406.1	1400.0	1402.0	1395.9	1397.9	1391.8
10°	1387.8	1385.7	1375.6	1379.6	1371.5	1371.5	1365.4	1365.4	1357.2	1359.3	1351.1
12.5°	1347.1	1345.0	1332.8	1336.9	1328.8	1328.8	1322.7	1322.7	1314.5	1318.6	1310.4
15°	1300.3	1298.2	1286.0	1288.1	1279.9	1279.9	1271.8	1273.8	1267.7	1271.8	1263.6
17.5°	1247.4	1245.3	1233.1	1235.2	1225.0	1227.0	1220.9	1218.9	1214.8	1216.8	1210.7
20°	1192.4	1188.4	1176.1	1178.2	1174.1	1168.0	1163.9	1166.0	1161.9	1166.0	1159.9
22.5°	1135.4	1127.3	1117.1	1117.1	1113.1	1113.1	1107.0	1111.0	1102.9	1109.0	1104.9
25°	1070.3	1064.2	1056.1	1060.2	1052.0	1052.0	1045.9	1047.9	1043.9	1047.9	1043.9
27.5°	1007.3	1003.2	991.0	995.0	988.9	991.0	984.9	986.9	984.9	988.9	984.9
30°	940.1	938.1	929.9	929.9	927.9	925.9	923.8	923.8	921.8	927.9	923.8
32.5°	877.0	870.9	862.8	868.9	858.7	864.8	860.7	864.8	860.7	864.8	862.8
35°	811.9	809.9	799.7	801.7	799.7	799.7	797.7	797.7	797.7	803.8	803.8
37.5°	742.7	740.7	734.6	736.6	732.5	730.5	730.5	734.6	734.6	738.7	738.7
40°	675.6	677.6	671.5	671.5	669.5	669.5	669.5	673.5	671.5	675.6	673.5
42.5°	608.4	608.4	602.3	604.4	602.3	604.4	604.4	608.4	608.4	610.5	608.4
45°	545.3	545.3	543.3	545.3	541.3	543.3	541.3	545.3	543.3	545.3	545.3
47.5°	482.3	482.3	482.3	480.2	480.2	480.2	480.2	480.2	478.2	482.3	480.2
50°	423.2	425.3	423.2	423.2	421.2	423.2	421.2	421.2	417.1	419.2	419.2
52.5°	370.3	370.3	366.3	366.3	366.3	364.2	364.2	364.2	362.2	362.2	358.1
55°	319.5	319.5	315.4	315.4	313.4	311.3	309.3	309.3	303.2	303.2	297.1
57.5°	272.7	270.6	264.5	264.5	260.5	258.4	256.4	254.4	250.3	246.2	244.2
60°	229.9	225.9	221.8	219.8	215.7	211.6	207.6	203.5	199.4	197.4	195.3
62.5°	189.2	183.1	179.1	177.0	173.0	166.9	162.8	158.7	154.6	152.6	148.5
65°	152.6	146.5	140.4	138.4	134.3	130.2	124.1	120.1	116.0	114.0	114.0
67.5°	120.1	114.0	105.8	105.8	101.7	97.7	93.6	89.5	87.5	89.5	89.5
70°	89.5	85.5	79.4	77.3	73.3	69.2	67.2	67.2	67.2	69.2	67.2
72.5°	67.2	61.0	57.0	54.9	52.9	50.9	50.9	50.9	48.8	50.9	50.9
75°	46.8	42.7	38.7	38.7	36.6	36.6	36.6	36.6	36.6	36.6	36.6
77.5°	32.6	28.5	26.5	26.5	26.5	24.4	24.4	24.4	24.4	24.4	24.4
80°	20.3	20.3	18.3	18.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
82.5°	12.2	12.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
85°	6.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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: P252483

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1	1465.1
2.5°	1446.8	1452.9	1444.7	1450.8	1448.8	1446.8	1442.7	1450.8
5°	1422.4	1424.4	1416.3	1424.4	1422.4	1418.3	1414.2	1422.4
7.5°	1387.8	1393.9	1383.7	1391.8	1389.8	1385.7	1381.7	1389.8
10°	1349.1	1355.2	1347.1	1353.2	1353.2	1349.1	1343.0	1351.1
12.5°	1306.4	1310.4	1302.3	1310.4	1308.4	1304.3	1302.3	1308.4
15°	1259.6	1265.7	1257.5	1263.6	1261.6	1259.6	1257.5	1263.6
17.5°	1208.7	1214.8	1208.7	1214.8	1214.8	1208.7	1206.7	1210.7
20°	1157.8	1161.9	1155.8	1161.9	1159.9	1159.9	1155.8	1161.9
22.5°	1100.9	1107.0	1102.9	1107.0	1104.9	1104.9	1102.9	1107.0
25°	1043.9	1050.0	1043.9	1050.0	1047.9	1047.9	1043.9	1054.1
27.5°	986.9	991.0	984.9	993.0	991.0	986.9	988.9	991.0
30°	925.9	929.9	925.9	932.0	932.0	932.0	927.9	932.0
32.5°	864.8	870.9	864.8	870.9	868.9	868.9	866.8	870.9
35°	803.8	805.8	801.7	807.8	807.8	809.9	805.8	811.9
37.5°	740.7	742.7	740.7	742.7	746.8	740.7	744.8	746.8
40°	675.6	679.6	677.6	679.6	679.6	681.7	679.6	681.7
42.5°	610.5	614.5	610.5	616.6	614.5	614.5	616.6	616.6
45°	543.3	549.4	545.3	549.4	551.4	549.4	549.4	553.5
47.5°	480.2	484.3	482.3	484.3	484.3	484.3	484.3	488.4
50°	417.1	419.2	419.2	421.2	421.2	423.2	419.2	421.2
52.5°	354.1	358.1	358.1	358.1	356.1	358.1	358.1	358.1
55°	297.1	299.1	295.1	299.1	299.1	297.1	297.1	301.2
57.5°	242.1	242.1	242.1	242.1	242.1	240.1	242.1	242.1
60°	191.3	193.3	191.3	191.3	191.3	191.3	189.2	193.3
62.5°	148.5	148.5	146.5	148.5	148.5	148.5	150.6	150.6
65°	116.0	118.0	116.0	118.0	118.0	118.0	118.0	120.1
67.5°	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
70°	69.2	69.2	69.2	71.2	69.2	69.2	69.2	71.2
72.5°	50.9	50.9	50.9	50.9	50.9	50.9	52.9	52.9
75°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
77.5°	24.4	24.4	24.4	26.5	24.4	26.5	24.4	24.4
80°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
82.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0
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)