

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: P252590

Luminaire Tested: **LD6B30D010 EU6B30509030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

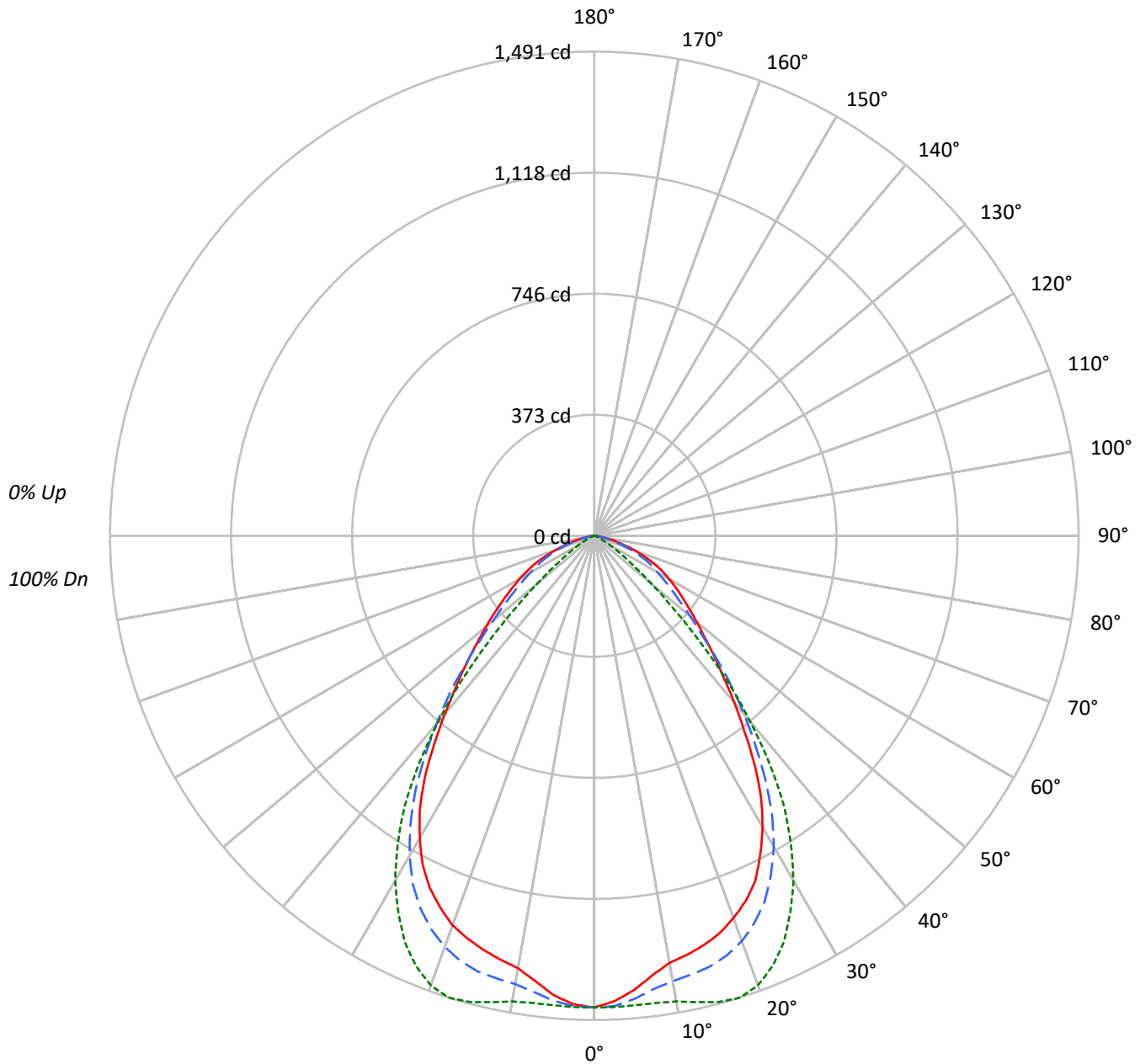
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86
3	96	88	81	76	94	86	80	76	84	79	74		81	77	73		79
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	76	66	59	53	64	58	53		63	57	53		61
7	73	61	54	49	72	61	53	48	59	53	48		58	52	48		57
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	94769	94769	94769
5°	91941	95019	93041
10°	88446	96456	89559
15°	88129	100381	89149
20°	86979	102253	88610
25°	84381	99368	86195
30°	78053	92351	80968
35°	68478	81181	72492
40°	57061	63644	60783
45°	48033	41989	51290
50°	41593	23009	44141
55°	37626	12227	38582
60°	34617	6354	34617
65°	31368	3365	30597
70°	25313	1927	23386
75°	17368	1260	16082
80°	11346	639	10106
85°	7560	1273	6288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	5.4
10°-20°	391.7	15.6
20°-30°	578.7	23.0
30°-40°	584.5	23.2
40°-50°	402.9	16.0
50°-60°	231.4	9.2
60°-70°	134.7	5.4
70°-80°	49.1	2.0
80°-90°	7.5	0.3
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°	1105.8	44.0
0°-40°	1690.4	67.2
0°-60°	2324.7	92.4
0°-90°	2516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1453	1453	1453	1453	1453	
5°	1404	1431	1451	1438	1421	132
15°	1305	1374	1486	1389	1320	368
25°	1172	1241	1380	1266	1197	534
35°	860	919	1019	961	910	534
45°	521	527	455	561	556	405
55°	331	290	108	302	339	298
65°	203	171	22	170	198	199
75°	69	55	5	54	64	78
85°	10	5	2	7	8	13
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°	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6
2.5°	1434.1	1435.8	1437.5	1435.8	1437.5	1444.2	1439.2	1442.5	1442.5	1444.2	1449.3
5°	1403.9	1403.9	1407.3	1405.6	1410.6	1417.3	1412.3	1417.3	1419.0	1422.4	1430.8
7.5°	1365.3	1365.3	1367.0	1367.0	1373.7	1380.4	1377.0	1383.8	1390.5	1397.2	1407.3
10°	1335.1	1338.4	1338.4	1340.1	1346.8	1355.2	1353.5	1361.9	1368.6	1378.7	1392.2
12.5°	1321.6	1323.3	1323.3	1326.7	1333.4	1341.8	1340.1	1348.5	1358.6	1370.3	1383.8
15°	1304.8	1308.2	1306.5	1309.9	1316.6	1325.0	1323.3	1331.7	1343.5	1355.2	1373.7
17.5°	1283.0	1284.7	1286.4	1286.4	1293.1	1299.8	1299.8	1308.2	1321.6	1335.1	1355.2
20°	1252.8	1256.1	1256.1	1257.8	1262.8	1272.9	1271.2	1279.6	1293.1	1306.5	1328.3
22.5°	1217.5	1219.2	1219.2	1220.9	1229.3	1234.3	1236.0	1242.7	1254.5	1269.6	1289.7
25°	1172.2	1173.8	1172.2	1177.2	1180.6	1190.6	1187.3	1195.7	1209.1	1220.9	1241.0
27.5°	1106.7	1110.0	1110.0	1111.7	1120.1	1128.5	1128.5	1136.9	1148.7	1157.1	1177.2
30°	1036.1	1041.2	1036.1	1044.5	1047.9	1054.6	1059.7	1064.7	1074.8	1086.5	1105.0
32.5°	955.5	953.9	955.5	958.9	969.0	974.0	977.4	982.4	992.5	1002.6	1017.7
35°	859.8	863.2	864.9	871.6	871.6	880.0	881.6	885.0	900.1	906.8	918.6
37.5°	759.1	762.4	764.1	767.4	774.2	777.5	782.6	787.6	797.7	809.4	816.1
40°	670.0	670.0	671.7	675.1	680.1	681.8	686.8	693.6	700.3	710.4	717.1
42.5°	586.1	587.8	586.1	589.4	594.5	601.2	599.5	607.9	609.6	616.3	621.3
45°	520.6	520.6	517.2	520.6	520.6	527.3	525.6	529.0	527.3	530.7	527.3
47.5°	458.5	460.1	458.5	460.1	460.1	460.1	461.8	458.5	460.1	455.1	445.0
50°	409.8	411.4	408.1	409.8	408.1	406.4	408.1	403.0	401.4	394.6	384.6
52.5°	367.8	366.1	364.4	364.4	364.4	362.7	361.1	356.0	351.0	344.3	332.5
55°	330.8	329.1	327.5	327.5	324.1	322.4	322.4	317.4	312.4	304.0	290.5
57.5°	297.2	295.6	293.9	293.9	292.2	288.8	288.8	283.8	277.1	267.0	255.3
60°	265.3	265.3	265.3	263.7	263.7	260.3	260.3	255.3	248.5	238.5	225.0
62.5°	236.8	235.1	235.1	235.1	235.1	233.4	231.7	228.4	221.7	211.6	199.8
65°	203.2	203.2	203.2	203.2	201.5	201.5	201.5	196.5	193.1	183.0	171.3
67.5°	166.3	166.3	166.3	166.3	164.6	166.3	166.3	162.9	159.5	149.5	139.4
70°	132.7	131.0	129.3	131.0	129.3	129.3	131.0	127.6	125.9	117.6	107.5
72.5°	97.4	99.1	97.4	97.4	97.4	95.7	97.4	95.7	92.4	85.6	78.9
75°	68.9	70.5	70.5	68.9	68.9	68.9	67.2	67.2	63.8	58.8	55.4
77.5°	47.0	47.0	47.0	47.0	45.3	45.3	45.3	43.7	42.0	38.6	35.3
80°	30.2	30.2	30.2	30.2	28.5	28.5	28.5	26.9	26.9	23.5	20.2
82.5°	18.5	18.5	18.5	18.5	18.5	18.5	16.8	16.8	15.1	13.4	11.8
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	8.4	8.4	6.7	5.0
87.5°	3.4	3.4	5.0	5.0	5.0	5.0	5.0	5.0	3.4	3.4	3.4
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°	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6
2.5°	1445.9	1447.6	1447.6	1447.6	1452.6	1454.3	1449.3	1444.2	1454.3	1452.6	1456.0
5°	1429.1	1434.1	1437.5	1439.2	1444.2	1447.6	1442.5	1440.9	1449.3	1450.9	1452.6
7.5°	1408.9	1417.3	1425.7	1429.1	1435.8	1439.2	1437.5	1437.5	1447.6	1450.9	1450.9
10°	1395.5	1407.3	1417.3	1425.7	1434.1	1439.2	1439.2	1440.9	1452.6	1456.0	1459.3
12.5°	1392.2	1407.3	1420.7	1432.5	1439.2	1447.6	1449.3	1454.3	1466.0	1471.1	1471.1
15°	1383.8	1403.9	1420.7	1435.8	1445.9	1456.0	1459.3	1469.4	1482.8	1486.2	1489.6
17.5°	1368.6	1388.8	1408.9	1427.4	1440.9	1449.3	1459.3	1469.4	1486.2	1491.2	1492.9
20°	1341.8	1365.3	1385.4	1403.9	1417.3	1429.1	1439.2	1450.9	1466.0	1472.8	1474.4
22.5°	1301.5	1325.0	1345.1	1365.3	1378.7	1388.8	1398.9	1412.3	1427.4	1434.1	1434.1
25°	1252.8	1274.6	1296.4	1311.5	1325.0	1336.7	1341.8	1356.9	1372.0	1380.4	1380.4
27.5°	1190.6	1210.8	1230.9	1247.7	1256.1	1266.2	1274.6	1288.0	1299.8	1306.5	1313.2
30°	1111.7	1131.9	1150.3	1167.1	1177.2	1187.3	1195.7	1205.8	1217.5	1225.9	1227.6
32.5°	1026.1	1042.9	1061.3	1078.1	1088.2	1091.6	1100.0	1110.0	1120.1	1126.8	1128.5
35°	932.0	943.8	955.5	970.6	980.7	980.7	989.1	995.8	1004.2	1019.3	1016.0
37.5°	821.2	838.0	846.4	851.4	858.1	864.9	866.5	874.9	885.0	888.4	893.4
40°	717.1	722.1	727.1	727.1	733.9	733.9	733.9	735.5	745.6	747.3	754.0
42.5°	613.0	613.0	607.9	602.9	604.6	602.9	594.5	594.5	599.5	606.2	606.2
45°	515.6	503.8	488.7	476.9	468.5	465.2	455.1	455.1	453.4	455.1	461.8
47.5°	433.3	413.1	387.9	364.4	356.0	349.3	334.2	327.5	324.1	325.8	329.1
50°	364.4	342.6	314.0	285.5	270.4	262.0	243.5	231.7	230.1	226.7	233.4
52.5°	314.0	287.2	256.9	223.3	208.2	194.8	174.6	164.6	157.9	157.9	159.5
55°	270.4	241.8	208.2	174.6	159.5	149.5	129.3	115.9	109.2	107.5	112.5
57.5°	233.4	206.6	173.0	139.4	124.3	112.5	92.4	80.6	75.6	72.2	73.9
60°	204.9	178.0	144.4	112.5	99.1	85.6	68.9	55.4	48.7	48.7	50.4
62.5°	178.0	152.8	122.6	92.4	80.6	68.9	50.4	38.6	33.6	31.9	33.6
65°	151.1	127.6	102.4	77.2	65.5	55.4	40.3	30.2	23.5	21.8	23.5
67.5°	122.6	104.1	82.3	62.1	52.1	43.7	30.2	21.8	16.8	15.1	16.8
70°	95.7	78.9	62.1	45.3	38.6	31.9	21.8	16.8	11.8	10.1	11.8
72.5°	68.9	57.1	43.7	31.9	26.9	21.8	15.1	11.8	8.4	6.7	8.4
75°	47.0	38.6	28.5	20.2	16.8	15.1	10.1	6.7	5.0	5.0	5.0
77.5°	30.2	23.5	18.5	13.4	10.1	8.4	5.0	3.4	3.4	3.4	3.4
80°	16.8	13.4	10.1	6.7	5.0	5.0	3.4	3.4	1.7	1.7	1.7
82.5°	10.1	6.7	5.0	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
85°	5.0	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	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°	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6
2.5°	1449.3	1450.9	1445.9	1452.6	1447.6	1454.3	1454.3	1447.6	1449.3	1445.9	1452.6
5°	1445.9	1445.9	1442.5	1447.6	1440.9	1447.6	1445.9	1434.1	1437.5	1430.8	1437.5
7.5°	1445.9	1442.5	1437.5	1442.5	1434.1	1439.2	1432.5	1420.7	1417.3	1408.9	1408.9
10°	1450.9	1445.9	1439.2	1440.9	1432.5	1434.1	1424.1	1407.3	1402.2	1392.2	1388.8
12.5°	1462.7	1457.7	1447.6	1450.9	1439.2	1439.2	1425.7	1405.6	1395.5	1382.1	1378.7
15°	1479.5	1471.1	1459.3	1461.0	1449.3	1442.5	1425.7	1402.2	1388.8	1370.3	1365.3
17.5°	1482.8	1474.4	1459.3	1459.3	1444.2	1435.8	1415.7	1388.8	1372.0	1353.5	1343.5
20°	1464.4	1456.0	1439.2	1437.5	1424.1	1412.3	1390.5	1363.6	1346.8	1326.7	1318.3
22.5°	1425.7	1415.7	1400.6	1398.9	1385.4	1378.7	1355.2	1328.3	1311.5	1291.4	1284.7
25°	1368.6	1363.6	1348.5	1346.8	1335.1	1326.7	1306.5	1281.3	1266.2	1246.1	1239.3
27.5°	1301.5	1296.4	1281.3	1281.3	1267.9	1262.8	1244.4	1220.9	1209.1	1190.6	1182.2
30°	1220.9	1214.1	1205.8	1204.1	1192.3	1187.3	1170.5	1148.7	1136.9	1121.8	1118.4
32.5°	1125.1	1120.1	1115.1	1113.4	1101.6	1096.6	1084.8	1063.0	1052.9	1039.5	1034.5
35°	1014.3	1011.0	1005.9	1004.2	999.2	994.2	982.4	965.6	960.6	950.5	945.5
37.5°	886.7	890.0	886.7	886.7	881.6	883.3	873.2	863.2	858.1	851.4	848.1
40°	749.0	755.7	760.7	760.7	759.1	765.8	764.1	755.7	754.0	750.7	749.0
42.5°	609.6	613.0	623.0	629.7	628.1	644.9	646.5	653.3	658.3	654.9	656.6
45°	463.5	473.6	487.0	493.7	502.1	523.9	535.7	549.1	560.9	567.6	565.9
47.5°	334.2	345.9	361.1	371.1	386.2	413.1	443.3	460.1	476.9	485.3	493.7
50°	241.8	253.6	272.0	287.2	297.2	334.2	366.1	387.9	406.4	418.2	426.5
52.5°	169.6	183.0	203.2	216.6	231.7	267.0	304.0	329.1	349.3	364.4	372.8
55°	117.6	132.7	151.1	164.6	181.4	218.3	253.6	280.4	302.3	315.7	325.8
57.5°	82.3	95.7	114.2	125.9	142.7	178.0	213.3	240.1	262.0	275.4	287.2
60°	55.4	68.9	87.3	99.1	112.5	147.8	179.7	208.2	228.4	241.8	253.6
62.5°	38.6	50.4	68.9	80.6	92.4	122.6	152.8	178.0	198.2	213.3	223.3
65°	30.2	40.3	55.4	65.5	77.2	102.4	127.6	149.5	169.6	184.7	191.4
67.5°	21.8	31.9	43.7	52.1	60.5	82.3	104.1	120.9	139.4	151.1	159.5
70°	15.1	21.8	31.9	38.6	45.3	62.1	78.9	94.0	107.5	115.9	122.6
72.5°	11.8	15.1	21.8	26.9	31.9	43.7	57.1	68.9	78.9	85.6	92.4
75°	6.7	10.1	15.1	18.5	21.8	30.2	38.6	47.0	53.7	58.8	62.1
77.5°	3.4	5.0	8.4	10.1	13.4	18.5	25.2	30.2	35.3	38.6	42.0
80°	3.4	3.4	5.0	5.0	6.7	10.1	13.4	16.8	20.2	23.5	25.2
82.5°	1.7	1.7	3.4	3.4	3.4	5.0	6.7	10.1	11.8	13.4	15.1
85°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.0	6.7	8.4	8.4
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	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



TEST NUMBER: P252590

CATALOG NUMBER: LD6B30D010 EU6B30509030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6
2.5°	1447.6	1450.9	1449.3	1452.6	1447.6	1445.9	1449.3	1444.2
5°	1429.1	1430.8	1429.1	1429.1	1425.7	1422.4	1425.7	1420.7
7.5°	1400.6	1400.6	1395.5	1395.5	1388.8	1385.4	1385.4	1383.8
10°	1377.0	1372.0	1367.0	1368.6	1358.6	1355.2	1353.5	1351.9
12.5°	1365.3	1361.9	1353.5	1353.5	1343.5	1340.1	1338.4	1336.7
15°	1351.9	1345.1	1338.4	1336.7	1328.3	1325.0	1323.3	1319.9
17.5°	1328.3	1323.3	1314.9	1314.9	1306.5	1304.8	1301.5	1299.8
20°	1303.2	1296.4	1289.7	1289.7	1279.6	1279.6	1274.6	1276.3
22.5°	1267.9	1262.8	1256.1	1256.1	1247.7	1246.1	1241.0	1239.3
25°	1225.9	1219.2	1214.1	1212.5	1205.8	1202.4	1200.7	1197.4
27.5°	1170.5	1165.4	1160.4	1157.1	1148.7	1147.0	1141.9	1143.6
30°	1101.6	1098.3	1096.6	1093.2	1083.2	1079.8	1079.8	1074.8
32.5°	1026.1	1021.0	1017.7	1012.6	1004.2	1002.6	997.5	999.2
35°	933.7	927.0	921.9	923.6	913.6	911.9	908.5	910.2
37.5°	838.0	831.3	824.5	822.9	814.5	814.5	809.4	809.4
40°	738.9	732.2	728.8	728.8	718.7	720.4	715.4	713.7
42.5°	649.9	643.2	641.5	639.8	634.8	633.1	628.1	629.7
45°	565.9	564.3	564.3	560.9	555.9	554.2	555.9	555.9
47.5°	492.0	493.7	492.0	492.0	488.7	492.0	488.7	490.4
50°	429.9	433.3	433.3	433.3	431.6	433.3	433.3	434.9
52.5°	377.8	382.9	381.2	382.9	381.2	384.6	382.9	384.6
55°	332.5	335.9	337.5	339.2	339.2	339.2	339.2	339.2
57.5°	290.5	295.6	297.2	298.9	298.9	302.3	298.9	298.9
60°	256.9	262.0	263.7	265.3	265.3	267.0	263.7	265.3
62.5°	226.7	231.7	231.7	233.4	233.4	233.4	230.1	231.7
65°	196.5	198.2	199.8	199.8	198.2	198.2	196.5	198.2
67.5°	162.9	164.6	162.9	162.9	161.2	161.2	157.9	159.5
70°	125.9	125.9	127.6	125.9	124.3	125.9	124.3	122.6
72.5°	94.0	94.0	94.0	92.4	92.4	90.7	92.4	92.4
75°	63.8	63.8	65.5	65.5	65.5	65.5	63.8	63.8
77.5°	42.0	42.0	42.0	42.0	43.7	42.0	42.0	42.0
80°	26.9	26.9	28.5	28.5	26.9	26.9	26.9	26.9
82.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
85°	10.1	10.1	10.1	10.1	8.4	8.4	8.4	8.4
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.4	3.4
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)