

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: P252593

Luminaire Tested: **LD6B30D010 EU6B30509050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252593
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 EU6B30509050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2567.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

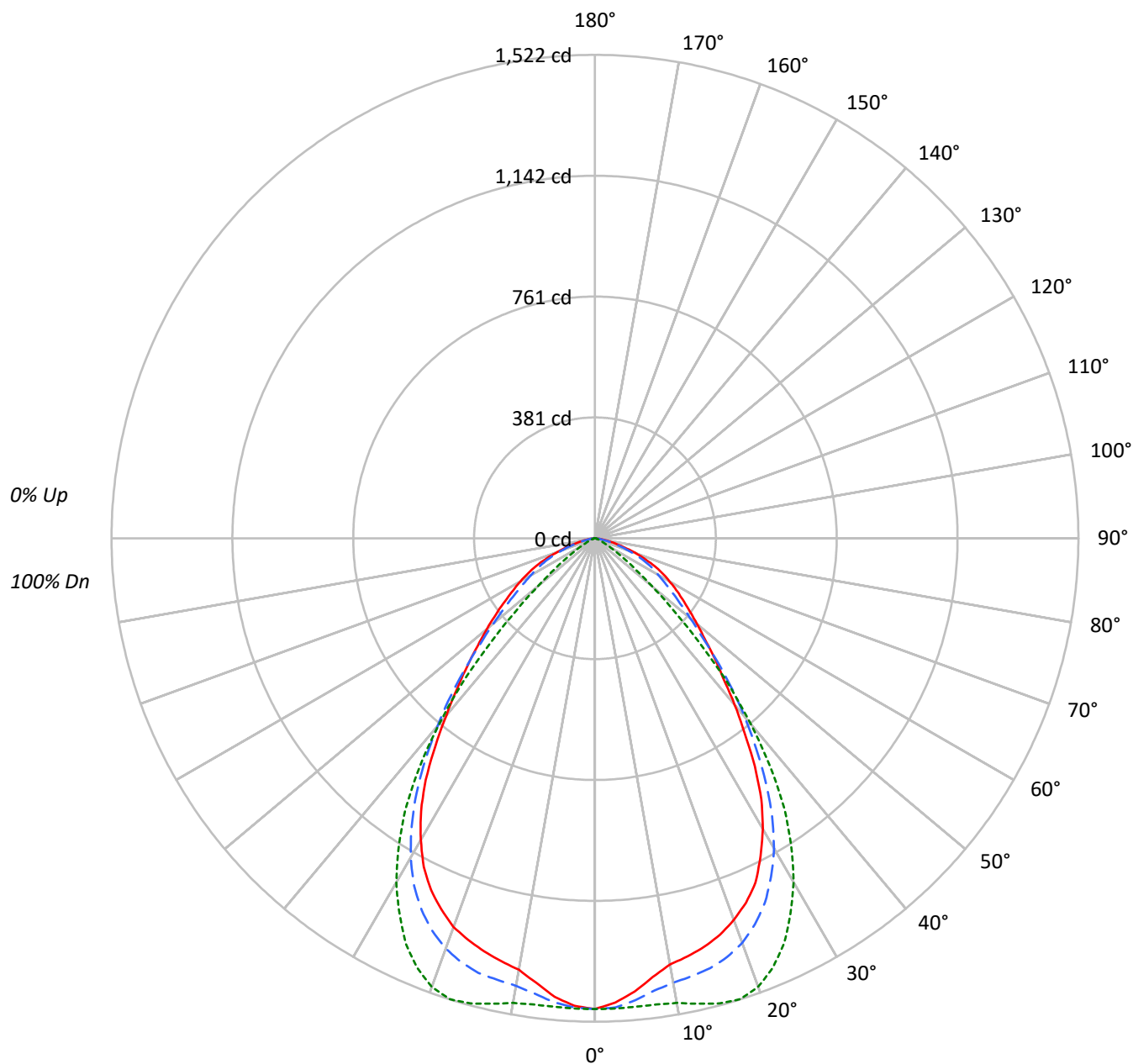
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	105	102	109	106	103	100		102	99	97		98	96	94		94	93	91
2	104	97	92	87	101	95	91	86		92	88	84		89	86	83		86	83	81
3	96	88	81	76	94	86	80	76		84	79	74		81	77	73		79	75	72
4	90	80	73	67	88	79	72	67		76	70	66		74	69	65		72	68	64
5	84	73	65	60	82	72	65	59		70	64	59		68	63	58		66	62	58
6	78	67	59	54	76	66	59	53		64	58	53		63	57	53		61	56	52
7	73	61	54	49	72	61	53	48		59	53	48		58	52	48		57	51	48
8	69	57	49	44	67	56	49	44		55	48	44		54	48	44		53	47	43
9	64	53	45	40	63	52	45	40		51	45	40		50	44	40		49	44	40
10	61	49	42	37	60	48	42	37		48	41	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	96693	96693	96693
5°	93808	96945	94928
10°	90235	98410	91375
15°	89919	102414	90959
20°	88742	104322	90409
25°	86087	101384	87937
30°	79635	94227	82611
35°	69864	82830	73958
40°	58219	64930	62018
45°	49002	42838	52323
50°	42436	23476	45044
55°	38388	12478	39367
60°	35321	6485	35321
65°	32001	3443	31214
70°	25828	1965	23863
75°	17695	1286	16410
80°	11572	639	10294
85°	7710	1273	6438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	5.4
10°-20°	399.6	15.6
20°-30°	590.4	23.0
30°-40°	596.4	23.2
40°-50°	411.1	16.0
50°-60°	236.1	9.2
60°-70°	137.4	5.4
70°-80°	50.1	2.0
80°-90°	7.7	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°	1128.3	44.0
0°-40°	1724.6	67.2
0°-60°	2371.8	92.4
0°-90°	2567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1482	1482	1482	1482	1482	
5°	1432	1460	1480	1467	1450	134
15°	1331	1402	1516	1417	1347	375
25°	1196	1266	1408	1292	1222	545
35°	877	937	1040	980	929	544
45°	531	538	464	572	567	413
55°	338	296	110	308	346	304
65°	207	175	22	173	202	203
75°	70	56	5	55	65	79
85°	10	5	2	7	9	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°	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1
2.5°	1463.2	1464.9	1466.6	1464.9	1466.6	1473.5	1468.4	1471.8	1471.8	1473.5	1478.6
5°	1432.4	1432.4	1435.8	1434.1	1439.2	1446.1	1440.9	1446.1	1447.8	1451.2	1459.8
7.5°	1393.0	1393.0	1394.7	1394.7	1401.5	1408.4	1405.0	1411.8	1418.7	1425.5	1435.8
10°	1362.1	1365.5	1365.5	1367.3	1374.1	1382.7	1381.0	1389.5	1396.4	1406.7	1420.4
12.5°	1348.4	1350.1	1350.1	1353.6	1360.4	1369.0	1367.3	1375.8	1386.1	1398.1	1411.8
15°	1331.3	1334.7	1333.0	1336.4	1343.3	1351.8	1350.1	1358.7	1370.7	1382.7	1401.5
17.5°	1309.0	1310.7	1312.4	1312.4	1319.3	1326.1	1326.1	1334.7	1348.4	1362.1	1382.7
20°	1278.2	1281.6	1281.6	1283.3	1288.4	1298.7	1297.0	1305.6	1319.3	1333.0	1355.3
22.5°	1242.2	1243.9	1243.9	1245.6	1254.2	1259.3	1261.0	1267.9	1279.9	1295.3	1315.9
25°	1195.9	1197.6	1195.9	1201.1	1204.5	1214.8	1211.3	1219.9	1233.6	1245.6	1266.2
27.5°	1129.1	1132.5	1132.5	1134.2	1142.8	1151.4	1151.4	1159.9	1171.9	1180.5	1201.1
30°	1057.1	1062.3	1057.1	1065.7	1069.1	1076.0	1081.1	1086.3	1096.6	1108.5	1127.4
32.5°	974.9	973.2	974.9	978.3	988.6	993.7	997.2	1002.3	1012.6	1022.9	1038.3
35°	877.2	880.7	882.4	889.2	889.2	897.8	899.5	902.9	918.4	925.2	937.2
37.5°	774.4	777.9	779.6	783.0	789.9	793.3	798.4	803.6	813.8	825.8	832.7
40°	683.6	683.6	685.3	688.8	693.9	695.6	700.8	707.6	714.5	724.8	731.6
42.5°	598.0	599.7	598.0	601.4	606.5	613.4	611.7	620.2	621.9	628.8	633.9
45°	531.1	531.1	527.7	531.1	531.1	538.0	536.3	539.7	538.0	541.4	538.0
47.5°	467.7	469.5	467.7	469.5	469.5	469.5	471.2	467.7	469.5	464.3	454.0
50°	418.1	419.8	416.3	418.1	416.3	414.6	416.3	411.2	409.5	402.6	392.4
52.5°	375.2	373.5	371.8	371.8	371.8	370.1	368.4	363.2	358.1	351.2	339.2
55°	337.5	335.8	334.1	334.1	330.7	329.0	329.0	323.8	318.7	310.1	296.4
57.5°	303.3	301.6	299.8	299.8	298.1	294.7	294.7	289.6	282.7	272.4	260.4
60°	270.7	270.7	270.7	269.0	269.0	265.6	265.6	260.4	253.6	243.3	229.6
62.5°	241.6	239.9	239.9	239.9	239.9	238.2	236.4	233.0	226.2	215.9	203.9
65°	207.3	207.3	207.3	207.3	205.6	205.6	205.6	200.5	197.0	186.8	174.8
67.5°	169.6	169.6	169.6	169.6	167.9	169.6	169.6	166.2	162.8	152.5	142.2
70°	135.4	133.6	131.9	133.6	131.9	131.9	133.6	130.2	128.5	119.9	109.7
72.5°	99.4	101.1	99.4	99.4	99.4	97.7	99.4	97.7	94.2	87.4	80.5
75°	70.2	72.0	72.0	70.2	70.2	70.2	68.5	68.5	65.1	60.0	56.5
77.5°	48.0	48.0	48.0	48.0	46.3	46.3	46.3	44.5	42.8	39.4	36.0
80°	30.8	30.8	30.8	30.8	29.1	29.1	29.1	27.4	27.4	24.0	20.6
82.5°	18.8	18.8	18.8	18.8	18.8	18.8	17.1	17.1	15.4	13.7	12.0
85°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	8.6	8.6	6.9	5.1
87.5°	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1	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°	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1
2.5°	1475.2	1476.9	1476.9	1476.9	1482.1	1483.8	1478.6	1473.5	1483.8	1482.1	1485.5
5°	1458.1	1463.2	1466.6	1468.4	1473.5	1476.9	1471.8	1470.1	1478.6	1480.3	1482.1
7.5°	1437.5	1446.1	1454.6	1458.1	1464.9	1468.4	1466.6	1466.6	1476.9	1480.3	1480.3
10°	1423.8	1435.8	1446.1	1454.6	1463.2	1468.4	1468.4	1470.1	1482.1	1485.5	1488.9
12.5°	1420.4	1435.8	1449.5	1461.5	1468.4	1476.9	1478.6	1483.8	1495.8	1500.9	1500.9
15°	1411.8	1432.4	1449.5	1464.9	1475.2	1485.5	1488.9	1499.2	1512.9	1516.3	1519.8
17.5°	1396.4	1416.9	1437.5	1456.4	1470.1	1478.6	1488.9	1499.2	1516.3	1521.5	1523.2
20°	1369.0	1393.0	1413.5	1432.4	1446.1	1458.1	1468.4	1480.3	1495.8	1502.6	1504.3
22.5°	1327.9	1351.8	1372.4	1393.0	1406.7	1416.9	1427.2	1440.9	1456.4	1463.2	1463.2
25°	1278.2	1300.4	1322.7	1338.1	1351.8	1363.8	1369.0	1384.4	1399.8	1408.4	1408.4
27.5°	1214.8	1235.3	1255.9	1273.0	1281.6	1291.9	1300.4	1314.1	1326.1	1333.0	1339.8
30°	1134.2	1154.8	1173.7	1190.8	1201.1	1211.3	1219.9	1230.2	1242.2	1250.8	1252.5
32.5°	1046.9	1064.0	1082.8	1100.0	1110.3	1113.7	1122.3	1132.5	1142.8	1149.7	1151.4
35°	950.9	962.9	974.9	990.3	1000.6	1000.6	1009.2	1016.0	1024.6	1040.0	1036.6
37.5°	837.8	855.0	863.5	868.7	875.5	882.4	884.1	892.7	902.9	906.4	911.5
40°	731.6	736.7	741.9	741.9	748.7	748.7	748.7	750.5	760.7	762.4	769.3
42.5°	625.4	625.4	620.2	615.1	616.8	615.1	606.5	606.5	611.7	618.5	618.5
45°	526.0	514.0	498.6	486.6	478.0	474.6	464.3	464.3	462.6	464.3	471.2
47.5°	442.0	421.5	395.8	371.8	363.2	356.4	341.0	334.1	330.7	332.4	335.8
50°	371.8	349.5	320.4	291.3	275.9	267.3	248.4	236.4	234.7	231.3	238.2
52.5°	320.4	293.0	262.1	227.9	212.5	198.7	178.2	167.9	161.1	161.1	162.8
55°	275.9	246.7	212.5	178.2	162.8	152.5	131.9	118.2	111.4	109.7	114.8
57.5°	238.2	210.7	176.5	142.2	126.8	114.8	94.2	82.2	77.1	73.7	75.4
60°	209.0	181.6	147.3	114.8	101.1	87.4	70.2	56.5	49.7	49.7	51.4
62.5°	181.6	155.9	125.1	94.2	82.2	70.2	51.4	39.4	34.3	32.6	34.3
65°	154.2	130.2	104.5	78.8	66.8	56.5	41.1	30.8	24.0	22.3	24.0
67.5°	125.1	106.2	84.0	63.4	53.1	44.5	30.8	22.3	17.1	15.4	17.1
70°	97.7	80.5	63.4	46.3	39.4	32.6	22.3	17.1	12.0	10.3	12.0
72.5°	70.2	58.3	44.5	32.6	27.4	22.3	15.4	12.0	8.6	6.9	8.6
75°	48.0	39.4	29.1	20.6	17.1	15.4	10.3	6.9	5.1	5.1	5.1
77.5°	30.8	24.0	18.8	13.7	10.3	8.6	5.1	3.4	3.4	3.4	3.4
80°	17.1	13.7	10.3	6.9	5.1	5.1	3.4	3.4	1.7	1.7	1.7
82.5°	10.3	6.9	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
85°	5.1	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°	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1
2.5°	1478.6	1480.3	1475.2	1482.1	1476.9	1483.8	1483.8	1476.9	1478.6	1475.2	1482.1
5°	1475.2	1475.2	1471.8	1476.9	1470.1	1476.9	1475.2	1463.2	1466.6	1459.8	1466.6
7.5°	1475.2	1471.8	1466.6	1471.8	1463.2	1468.4	1461.5	1449.5	1446.1	1437.5	1437.5
10°	1480.3	1475.2	1468.4	1470.1	1461.5	1463.2	1452.9	1435.8	1430.7	1420.4	1416.9
12.5°	1492.3	1487.2	1476.9	1480.3	1468.4	1468.4	1454.6	1434.1	1423.8	1410.1	1406.7
15°	1509.5	1500.9	1488.9	1490.6	1478.6	1471.8	1454.6	1430.7	1416.9	1398.1	1393.0
17.5°	1512.9	1504.3	1488.9	1488.9	1473.5	1464.9	1444.4	1416.9	1399.8	1381.0	1370.7
20°	1494.1	1485.5	1468.4	1466.6	1452.9	1440.9	1418.7	1391.2	1374.1	1353.6	1345.0
22.5°	1454.6	1444.4	1428.9	1427.2	1413.5	1406.7	1382.7	1355.3	1338.1	1317.6	1310.7
25°	1396.4	1391.2	1375.8	1374.1	1362.1	1353.6	1333.0	1307.3	1291.9	1271.3	1264.5
27.5°	1327.9	1322.7	1307.3	1307.3	1293.6	1288.4	1269.6	1245.6	1233.6	1214.8	1206.2
30°	1245.6	1238.8	1230.2	1228.5	1216.5	1211.3	1194.2	1171.9	1159.9	1144.5	1141.1
32.5°	1148.0	1142.8	1137.7	1136.0	1124.0	1118.8	1106.8	1084.6	1074.3	1060.6	1055.4
35°	1034.9	1031.4	1026.3	1024.6	1019.4	1014.3	1002.3	985.2	980.0	969.8	964.6
37.5°	904.7	908.1	904.7	904.7	899.5	901.2	890.9	880.7	875.5	868.7	865.2
40°	764.2	771.0	776.2	776.2	774.4	781.3	779.6	771.0	769.3	765.9	764.2
42.5°	621.9	625.4	635.7	642.5	640.8	657.9	659.6	666.5	671.6	668.2	669.9
45°	472.9	483.2	496.9	503.7	512.3	534.6	546.6	560.3	572.3	579.1	577.4
47.5°	341.0	353.0	368.4	378.7	394.1	421.5	452.3	469.5	486.6	495.2	503.7
50°	246.7	258.7	277.6	293.0	303.3	341.0	373.5	395.8	414.6	426.6	435.2
52.5°	173.0	186.8	207.3	221.0	236.4	272.4	310.1	335.8	356.4	371.8	380.4
55°	119.9	135.4	154.2	167.9	185.0	222.7	258.7	286.1	308.4	322.1	332.4
57.5°	84.0	97.7	116.5	128.5	145.6	181.6	217.6	245.0	267.3	281.0	293.0
60°	56.5	70.2	89.1	101.1	114.8	150.8	183.3	212.5	233.0	246.7	258.7
62.5°	39.4	51.4	70.2	82.2	94.2	125.1	155.9	181.6	202.2	217.6	227.9
65°	30.8	41.1	56.5	66.8	78.8	104.5	130.2	152.5	173.0	188.5	195.3
67.5°	22.3	32.6	44.5	53.1	61.7	84.0	106.2	123.4	142.2	154.2	162.8
70°	15.4	22.3	32.6	39.4	46.3	63.4	80.5	95.9	109.7	118.2	125.1
72.5°	12.0	15.4	22.3	27.4	32.6	44.5	58.3	70.2	80.5	87.4	94.2
75°	6.9	10.3	15.4	18.8	22.3	30.8	39.4	48.0	54.8	60.0	63.4
77.5°	3.4	5.1	8.6	10.3	13.7	18.8	25.7	30.8	36.0	39.4	42.8
80°	3.4	3.4	5.1	5.1	6.9	10.3	13.7	17.1	20.6	24.0	25.7
82.5°	1.7	1.7	3.4	3.4	3.4	5.1	6.9	10.3	12.0	13.7	15.4
85°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.1	6.9	8.6	8.6
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	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: P252593

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1	1482.1
2.5°	1476.9	1480.3	1478.6	1482.1	1476.9	1475.2	1478.6	1473.5
5°	1458.1	1459.8	1458.1	1458.1	1454.6	1451.2	1454.6	1449.5
7.5°	1428.9	1428.9	1423.8	1423.8	1416.9	1413.5	1413.5	1411.8
10°	1405.0	1399.8	1394.7	1396.4	1386.1	1382.7	1381.0	1379.3
12.5°	1393.0	1389.5	1381.0	1381.0	1370.7	1367.3	1365.5	1363.8
15°	1379.3	1372.4	1365.5	1363.8	1355.3	1351.8	1350.1	1346.7
17.5°	1355.3	1350.1	1341.6	1341.6	1333.0	1331.3	1327.9	1326.1
20°	1329.6	1322.7	1315.9	1315.9	1305.6	1305.6	1300.4	1302.2
22.5°	1293.6	1288.4	1281.6	1281.6	1273.0	1271.3	1266.2	1264.5
25°	1250.8	1243.9	1238.8	1237.0	1230.2	1226.8	1225.1	1221.6
27.5°	1194.2	1189.1	1183.9	1180.5	1171.9	1170.2	1165.1	1166.8
30°	1124.0	1120.5	1118.8	1115.4	1105.1	1101.7	1101.7	1096.6
32.5°	1046.9	1041.7	1038.3	1033.2	1024.6	1022.9	1017.7	1019.4
35°	952.6	945.8	940.6	942.3	932.1	930.4	926.9	928.6
37.5°	855.0	848.1	841.3	839.5	831.0	831.0	825.8	825.8
40°	753.9	747.0	743.6	743.6	733.3	735.0	729.9	728.2
42.5°	663.1	656.2	654.5	652.8	647.7	645.9	640.8	642.5
45°	577.4	575.7	575.7	572.3	567.1	565.4	567.1	567.1
47.5°	502.0	503.7	502.0	502.0	498.6	502.0	498.6	500.3
50°	438.6	442.0	442.0	442.0	440.3	442.0	442.0	443.8
52.5°	385.5	390.6	388.9	390.6	388.9	392.4	390.6	392.4
55°	339.2	342.7	344.4	346.1	346.1	346.1	346.1	346.1
57.5°	296.4	301.6	303.3	305.0	305.0	308.4	305.0	305.0
60°	262.1	267.3	269.0	270.7	270.7	272.4	269.0	270.7
62.5°	231.3	236.4	236.4	238.2	238.2	238.2	234.7	236.4
65°	200.5	202.2	203.9	203.9	202.2	202.2	200.5	202.2
67.5°	166.2	167.9	166.2	166.2	164.5	164.5	161.1	162.8
70°	128.5	128.5	130.2	128.5	126.8	128.5	126.8	125.1
72.5°	95.9	95.9	95.9	94.2	94.2	92.5	94.2	94.2
75°	65.1	65.1	66.8	66.8	66.8	66.8	65.1	65.1
77.5°	42.8	42.8	42.8	42.8	44.5	42.8	42.8	42.8
80°	27.4	27.4	29.1	29.1	27.4	27.4	27.4	27.4
82.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
85°	10.3	10.3	10.3	10.3	8.6	8.6	8.6	8.6
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	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)