

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: P252399

Luminaire Tested: **LD6B40D010 EU6B30509727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30509727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2698.0 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

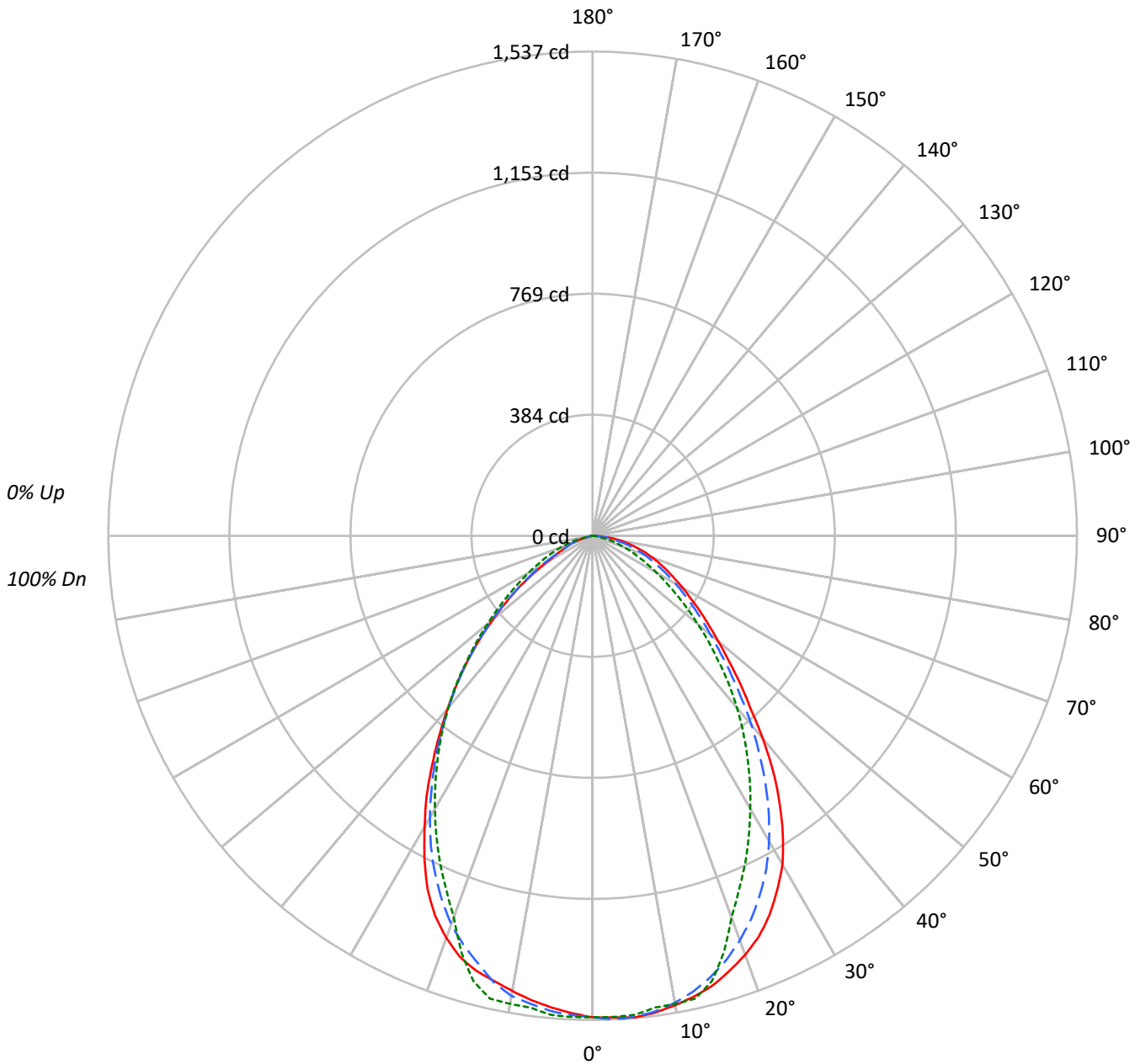
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99733	99733	99733
5°	100507	99983	98425
10°	100219	99960	97198
15°	99766	98828	96545
20°	98275	89457	94283
25°	95611	82459	89182
30°	90784	75379	80313
35°	82384	68151	70676
40°	71522	60698	60868
45°	60996	52203	51659
50°	52798	44131	41715
55°	47192	36807	32292
60°	43007	30572	21764
65°	40152	25132	16240
70°	38246	20448	13639
75°	36021	14519	4512
80°	34302	7477	1503
85°	28220	4491	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	5.4
10°-20°	403.8	15.0
20°-30°	557.3	20.7
30°-40°	567.1	21.0
40°-50°	455.8	16.9
50°-60°	303.1	11.2
60°-70°	172.7	6.4
70°-80°	77.6	2.9
80°-90°	16.3	0.6
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°	1105.4	41.0
0°-40°	1672.6	62.0
0°-60°	2431.4	90.1
0°-90°	2698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2698.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1529	1529	1529	1529	1529	
5°	1535	1533	1527	1515	1503	146
15°	1477	1449	1463	1406	1429	416
25°	1328	1257	1146	1183	1239	609
35°	1034	955	856	872	887	643
45°	661	621	566	560	560	513
55°	415	387	324	288	284	373
65°	260	232	163	105	105	259
75°	143	119	58	24	18	153
85°	38	26	6	2	0	45
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°	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7
2.5°	1530.7	1538.6	1536.7	1534.7	1536.7	1534.7	1530.7	1530.7	1526.7	1526.7	1536.7
5°	1534.7	1538.6	1536.7	1534.7	1534.7	1536.7	1528.7	1528.7	1524.7	1522.8	1532.7
7.5°	1526.7	1532.7	1528.7	1528.7	1526.7	1528.7	1520.8	1520.8	1514.8	1512.8	1522.8
10°	1512.8	1520.8	1516.8	1516.8	1516.8	1512.8	1508.9	1506.9	1500.9	1498.9	1504.9
12.5°	1496.9	1502.9	1500.9	1496.9	1496.9	1496.9	1489.0	1487.0	1479.1	1475.1	1481.1
15°	1477.1	1481.1	1479.1	1477.1	1473.1	1473.1	1465.2	1461.2	1453.3	1445.3	1449.3
17.5°	1447.3	1453.3	1449.3	1447.3	1441.4	1441.4	1433.4	1429.4	1417.5	1409.6	1411.6
20°	1415.5	1417.5	1415.5	1411.6	1405.6	1403.6	1395.7	1387.8	1377.8	1367.9	1365.9
22.5°	1377.8	1379.8	1373.9	1369.9	1363.9	1361.9	1352.0	1346.1	1330.2	1318.3	1316.3
25°	1328.2	1330.2	1330.2	1320.2	1316.3	1312.3	1302.4	1292.5	1278.6	1262.7	1256.7
27.5°	1268.6	1274.6	1270.6	1260.7	1252.7	1250.8	1240.8	1232.9	1215.0	1201.1	1193.2
30°	1205.1	1203.1	1201.1	1195.2	1183.3	1181.3	1171.3	1161.4	1147.5	1129.7	1119.7
32.5°	1123.7	1123.7	1121.7	1115.8	1103.8	1099.9	1091.9	1080.0	1064.1	1050.2	1040.3
35°	1034.4	1036.3	1034.4	1022.4	1014.5	1010.5	1006.6	992.7	978.8	962.9	954.9
37.5°	941.0	935.1	937.1	927.2	917.2	921.2	909.3	903.3	887.4	875.5	867.6
40°	839.8	843.8	835.8	831.9	825.9	819.9	819.9	810.0	802.1	788.2	784.2
42.5°	740.5	746.5	744.5	740.5	732.6	734.6	724.6	720.7	710.8	704.8	698.8
45°	661.1	661.1	661.1	657.1	655.2	651.2	645.2	639.3	633.3	625.4	621.4
47.5°	583.7	583.7	585.7	581.7	577.7	575.7	571.8	571.8	561.9	553.9	549.9
50°	520.2	520.2	520.2	516.2	512.2	512.2	508.2	504.3	498.3	492.4	488.4
52.5°	462.6	462.6	462.6	458.6	456.6	454.6	452.7	450.7	442.7	438.8	434.8
55°	414.9	413.0	413.0	411.0	407.0	407.0	405.0	401.0	395.1	389.1	387.1
57.5°	367.3	369.3	367.3	367.3	363.3	363.3	359.3	357.4	351.4	347.4	343.5
60°	329.6	329.6	329.6	327.6	323.6	325.6	321.6	319.6	313.7	307.7	303.8
62.5°	291.8	293.8	293.8	291.8	287.9	287.9	285.9	283.9	277.9	272.0	266.0
65°	260.1	260.1	260.1	258.1	256.1	256.1	254.1	252.1	246.2	238.2	232.3
67.5°	230.3	228.3	228.3	228.3	226.3	224.3	222.4	220.4	214.4	208.5	200.5
70°	200.5	200.5	200.5	198.5	194.6	196.5	194.6	192.6	186.6	180.7	174.7
72.5°	172.7	172.7	170.7	168.8	168.8	166.8	166.8	164.8	158.8	150.9	144.9
75°	142.9	142.9	142.9	142.9	139.0	141.0	137.0	135.0	131.0	125.1	119.1
77.5°	117.1	117.1	117.1	115.1	113.2	113.2	111.2	109.2	103.2	99.3	91.3
80°	91.3	91.3	91.3	91.3	89.3	87.4	85.4	83.4	79.4	73.5	67.5
82.5°	67.5	67.5	65.5	65.5	65.5	63.5	61.5	59.6	55.6	51.6	47.6
85°	37.7	39.7	39.7	35.7	37.7	35.7	35.7	31.8	31.8	27.8	25.8
87.5°	13.9	11.9	11.9	11.9	11.9	11.9	11.9	9.9	9.9	9.9	7.9
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°	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7
2.5°	1528.7	1526.7	1534.7	1534.7	1522.8	1528.7	1530.7	1526.7	1526.7	1528.7	1522.8
5°	1524.7	1520.8	1528.7	1530.7	1518.8	1524.7	1526.7	1522.8	1524.7	1526.7	1518.8
7.5°	1510.8	1510.8	1516.8	1518.8	1506.9	1512.8	1512.8	1508.9	1510.8	1510.8	1504.9
10°	1496.9	1491.0	1496.9	1496.9	1487.0	1489.0	1493.0	1491.0	1498.9	1508.9	1508.9
12.5°	1471.1	1465.2	1475.1	1475.1	1469.1	1477.1	1487.0	1493.0	1500.9	1504.9	1493.0
15°	1439.4	1441.4	1459.2	1473.1	1467.2	1479.1	1489.0	1485.0	1475.1	1463.2	1445.3
17.5°	1397.7	1391.7	1407.6	1415.5	1407.6	1411.6	1419.5	1411.6	1395.7	1385.8	1361.9
20°	1350.0	1334.1	1334.1	1330.2	1316.3	1316.3	1314.3	1300.4	1294.4	1288.5	1278.6
22.5°	1296.4	1278.6	1272.6	1260.7	1248.8	1246.8	1240.8	1226.9	1219.0	1215.0	1203.1
25°	1234.9	1219.0	1209.1	1197.2	1179.3	1175.3	1169.4	1155.5	1151.5	1145.5	1135.6
27.5°	1171.3	1151.5	1137.6	1125.7	1109.8	1107.8	1095.9	1086.0	1078.0	1074.1	1066.1
30°	1097.9	1076.1	1066.1	1050.2	1038.3	1034.4	1024.4	1010.5	1004.6	1000.6	994.7
32.5°	1016.5	998.6	988.7	974.8	958.9	960.9	949.0	937.1	933.1	929.1	923.2
35°	937.1	919.2	907.3	895.4	885.5	881.5	873.5	863.6	857.7	855.7	851.7
37.5°	849.7	835.8	825.9	814.0	806.0	802.1	798.1	788.2	784.2	784.2	776.3
40°	764.4	752.4	744.5	738.5	728.6	726.6	722.7	716.7	714.7	712.7	706.8
42.5°	686.9	671.0	665.1	661.1	655.2	651.2	649.2	645.2	643.2	641.3	635.3
45°	613.5	599.6	593.6	589.6	583.7	581.7	579.7	573.8	569.8	565.8	563.8
47.5°	542.0	532.1	530.1	520.2	516.2	512.2	508.2	504.3	502.3	500.3	492.4
50°	480.5	474.5	464.6	458.6	454.6	452.7	444.7	438.8	436.8	434.8	428.8
52.5°	424.9	416.9	411.0	401.0	399.1	395.1	391.1	383.2	379.2	377.2	371.3
55°	375.2	369.3	361.3	353.4	347.4	345.4	339.5	331.6	327.6	323.6	319.6
57.5°	333.5	323.6	315.7	307.7	303.8	297.8	291.8	287.9	281.9	276.0	270.0
60°	293.8	285.9	276.0	268.0	264.0	260.1	252.1	246.2	240.2	234.3	228.3
62.5°	256.1	248.2	238.2	230.3	226.3	222.4	214.4	208.5	202.5	196.5	188.6
65°	222.4	214.4	206.5	198.5	194.6	190.6	182.7	174.7	168.8	162.8	154.9
67.5°	194.6	184.6	176.7	168.8	164.8	160.8	152.9	146.9	139.0	133.0	125.1
70°	164.8	156.8	150.9	142.9	139.0	135.0	127.1	119.1	113.2	107.2	99.3
72.5°	139.0	129.0	123.1	115.1	111.2	109.2	101.3	95.3	89.3	81.4	75.4
75°	111.2	103.2	95.3	89.3	85.4	83.4	75.4	69.5	63.5	57.6	51.6
77.5°	85.4	79.4	71.5	65.5	61.5	59.6	51.6	45.7	39.7	35.7	29.8
80°	63.5	55.6	51.6	45.7	43.7	39.7	35.7	29.8	25.8	19.9	15.9
82.5°	43.7	37.7	33.8	29.8	27.8	25.8	21.8	17.9	13.9	11.9	9.9
85°	23.8	19.9	17.9	15.9	13.9	13.9	11.9	9.9	7.9	6.0	4.0
87.5°	7.9	6.0	6.0	6.0	6.0	4.0	4.0	4.0	2.0	2.0	2.0
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°	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7
2.5°	1526.7	1526.7	1526.7	1524.7	1524.7	1524.7	1522.8	1530.7	1522.8	1520.8	1526.7
5°	1524.7	1520.8	1520.8	1520.8	1520.8	1518.8	1516.8	1520.8	1514.8	1512.8	1512.8
7.5°	1512.8	1510.8	1510.8	1508.9	1506.9	1504.9	1502.9	1504.9	1498.9	1496.9	1496.9
10°	1514.8	1510.8	1510.8	1504.9	1500.9	1495.0	1489.0	1491.0	1483.0	1477.1	1477.1
12.5°	1491.0	1481.1	1475.1	1469.1	1465.2	1463.2	1455.3	1459.2	1451.3	1449.3	1449.3
15°	1437.4	1425.5	1415.5	1411.6	1411.6	1407.6	1401.6	1409.6	1405.6	1407.6	1417.5
17.5°	1354.0	1348.0	1342.1	1340.1	1342.1	1346.1	1350.0	1361.9	1361.9	1367.9	1377.8
20°	1280.5	1276.6	1280.5	1280.5	1282.5	1290.5	1298.4	1308.3	1312.3	1318.3	1332.2
22.5°	1209.1	1209.1	1213.0	1219.0	1217.0	1230.9	1232.9	1250.8	1250.8	1262.7	1274.6
25°	1139.6	1139.6	1143.6	1145.5	1149.5	1157.5	1165.4	1179.3	1183.3	1195.2	1205.1
27.5°	1072.1	1070.1	1070.1	1072.1	1076.1	1086.0	1089.9	1105.8	1111.8	1119.7	1129.7
30°	996.6	994.7	998.6	1002.6	1000.6	1010.5	1016.5	1028.4	1032.4	1040.3	1048.3
32.5°	925.2	925.2	925.2	929.1	929.1	937.1	937.1	951.0	951.0	956.9	964.9
35°	851.7	851.7	853.7	855.7	857.7	859.7	861.6	869.6	871.6	873.5	877.5
37.5°	782.2	780.2	782.2	782.2	778.3	786.2	786.2	794.1	788.2	794.1	796.1
40°	710.8	710.8	708.8	708.8	708.8	712.7	708.8	714.7	710.8	714.7	712.7
42.5°	637.3	637.3	633.3	637.3	635.3	635.3	635.3	639.3	633.3	637.3	639.3
45°	563.8	561.9	561.9	559.9	559.9	559.9	561.9	561.9	559.9	563.8	563.8
47.5°	492.4	490.4	490.4	490.4	490.4	492.4	486.4	490.4	486.4	486.4	486.4
50°	430.8	428.8	426.8	424.9	422.9	422.9	420.9	420.9	416.9	414.9	413.0
52.5°	371.3	369.3	365.3	365.3	363.3	361.3	355.4	355.4	349.4	347.4	347.4
55°	317.7	311.7	309.7	305.7	305.7	301.8	297.8	293.8	287.9	283.9	283.9
57.5°	268.0	262.1	258.1	256.1	254.1	250.2	242.2	240.2	232.3	230.3	228.3
60°	224.3	218.4	212.4	208.5	206.5	200.5	192.6	188.6	184.6	178.7	172.7
62.5°	182.7	176.7	168.8	166.8	162.8	156.8	150.9	144.9	141.0	135.0	131.0
65°	146.9	141.0	135.0	131.0	127.1	121.1	115.1	109.2	105.2	103.2	101.3
67.5°	119.1	111.2	105.2	103.2	99.3	95.3	89.3	87.4	83.4	83.4	83.4
70°	93.3	87.4	81.4	79.4	77.4	73.5	69.5	69.5	69.5	69.5	69.5
72.5°	69.5	65.5	59.6	57.6	55.6	53.6	49.6	51.6	49.6	49.6	49.6
75°	43.7	39.7	35.7	33.8	31.8	29.8	27.8	25.8	23.8	21.8	21.8
77.5°	23.8	19.9	17.9	15.9	15.9	13.9	11.9	11.9	9.9	9.9	9.9
80°	13.9	11.9	9.9	7.9	7.9	6.0	6.0	6.0	6.0	4.0	4.0
82.5°	7.9	6.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0
85°	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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	0.0	0.0	0.0



TEST NUMBER: P252399

CATALOG NUMBER: LD6B40D010 EU6B30509727 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7
2.5°	1516.8	1522.8	1516.8	1522.8	1522.8	1522.8	1522.8	1516.8
5°	1506.9	1510.8	1504.9	1508.9	1510.8	1508.9	1508.9	1502.9
7.5°	1489.0	1493.0	1487.0	1493.0	1495.0	1493.0	1491.0	1487.0
10°	1471.1	1473.1	1467.2	1471.1	1475.1	1475.1	1473.1	1467.2
12.5°	1443.3	1449.3	1443.3	1447.3	1451.3	1453.3	1453.3	1447.3
15°	1411.6	1421.5	1417.5	1423.5	1429.4	1431.4	1431.4	1429.4
17.5°	1379.8	1389.7	1383.8	1393.7	1399.7	1403.6	1405.6	1401.6
20°	1334.1	1346.1	1342.1	1350.0	1358.0	1363.9	1363.9	1358.0
22.5°	1274.6	1290.5	1288.5	1294.4	1304.4	1306.4	1310.3	1306.4
25°	1209.1	1221.0	1219.0	1225.0	1236.9	1236.9	1238.9	1238.9
27.5°	1133.6	1145.5	1143.6	1147.5	1155.5	1157.5	1159.4	1155.5
30°	1052.2	1058.2	1058.2	1064.1	1070.1	1072.1	1072.1	1066.1
32.5°	962.9	970.8	974.8	972.8	978.8	982.7	980.8	980.8
35°	881.5	883.5	885.5	887.4	889.4	893.4	889.4	887.4
37.5°	794.1	800.1	796.1	800.1	804.1	802.1	800.1	800.1
40°	714.7	716.7	712.7	716.7	718.7	718.7	718.7	714.7
42.5°	635.3	639.3	635.3	639.3	639.3	639.3	639.3	637.3
45°	555.9	559.9	559.9	561.9	561.9	559.9	559.9	559.9
47.5°	482.4	486.4	482.4	486.4	488.4	484.4	484.4	484.4
50°	413.0	411.0	411.0	413.0	413.0	413.0	413.0	411.0
52.5°	341.5	343.5	343.5	343.5	345.4	343.5	345.4	345.4
55°	279.9	279.9	279.9	281.9	279.9	279.9	281.9	283.9
57.5°	224.3	222.4	220.4	220.4	222.4	220.4	220.4	220.4
60°	172.7	170.7	168.8	168.8	168.8	168.8	168.8	166.8
62.5°	129.0	129.0	129.0	131.0	131.0	131.0	131.0	133.0
65°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	105.2
67.5°	83.4	83.4	83.4	85.4	85.4	85.4	85.4	85.4
70°	69.5	69.5	71.5	69.5	71.5	71.5	71.5	71.5
72.5°	47.6	47.6	47.6	47.6	47.6	45.7	47.6	45.7
75°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	17.9
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	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)