

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: P252375

Luminaire Tested: **LD6B30D010 EU6B30508027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252375
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: LD6B30D010 EU6B30508027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2556.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

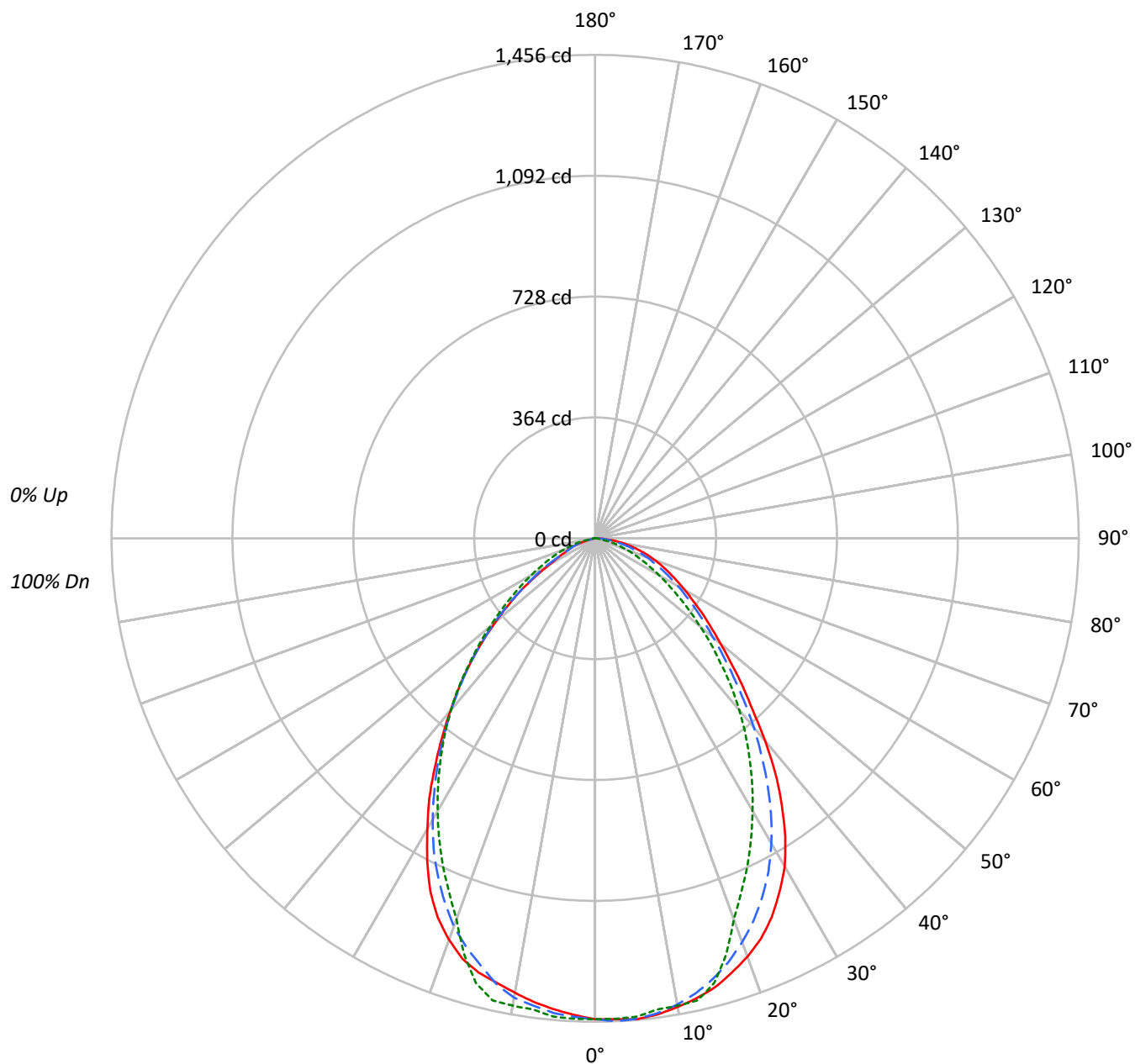
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	94488	94488	94488
5°	95216	94724	93244
10°	94945	94694	92077
15°	94512	93627	91465
20°	93102	84750	89319
25°	90579	78118	84482
30°	86008	71409	76087
35°	78043	64560	66957
40°	67758	57504	57666
45°	57785	49454	48937
50°	50017	41806	39513
55°	44713	34874	30597
60°	40736	28954	20616
65°	38037	23804	15391
70°	36243	19380	12914
75°	34130	13738	4260
80°	32499	7063	1428
85°	26723	4192	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	5.4
10°-20°	382.5	15.0
20°-30°	528.0	20.7
30°-40°	537.3	21.0
40°-50°	431.8	16.9
50°-60°	287.1	11.2
60°-70°	163.6	6.4
70°-80°	73.5	2.9
80°-90°	15.5	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°	1047.2	41.0
0°-40°	1584.5	62.0
0°-60°	2303.4	90.1
0°-90°	2556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2556.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1448	1448	1448	1448	1448	
5°	1454	1452	1446	1435	1424	138
15°	1399	1373	1386	1332	1354	394
25°	1258	1191	1085	1121	1174	577
35°	980	905	811	826	841	609
45°	626	589	536	530	530	486
55°	393	367	307	273	269	353
65°	246	220	154	100	100	245
75°	135	113	54	23	17	145
85°	36	24	6	2	0	42
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°	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1450.1	1457.7	1455.8	1453.9	1455.8	1453.9	1450.1	1450.1	1446.4	1446.4	1455.8
5°	1453.9	1457.7	1455.8	1453.9	1453.9	1455.8	1448.3	1448.3	1444.5	1442.6	1452.0
7.5°	1446.4	1452.0	1448.3	1448.3	1446.4	1448.3	1440.7	1440.7	1435.1	1433.2	1442.6
10°	1433.2	1440.7	1437.0	1437.0	1437.0	1433.2	1429.4	1427.6	1421.9	1420.0	1425.7
12.5°	1418.2	1423.8	1421.9	1418.2	1418.2	1418.2	1410.6	1408.8	1401.2	1397.5	1403.1
15°	1399.3	1403.1	1401.2	1399.3	1395.6	1395.6	1388.1	1384.3	1376.8	1369.3	1373.0
17.5°	1371.1	1376.8	1373.0	1371.1	1365.5	1365.5	1358.0	1354.2	1342.9	1335.4	1337.3
20°	1341.0	1342.9	1341.0	1337.3	1331.6	1329.8	1322.2	1314.7	1305.3	1295.9	1294.0
22.5°	1305.3	1307.2	1301.5	1297.8	1292.1	1290.3	1280.9	1275.2	1260.2	1248.9	1247.0
25°	1258.3	1260.2	1260.2	1250.8	1247.0	1243.2	1233.8	1224.4	1211.3	1196.2	1190.6
27.5°	1201.9	1207.5	1203.7	1194.3	1186.8	1184.9	1175.5	1168.0	1151.1	1137.9	1130.4
30°	1141.7	1139.8	1137.9	1132.3	1121.0	1119.1	1109.7	1100.3	1087.1	1070.2	1060.8
32.5°	1064.6	1064.6	1062.7	1057.0	1045.8	1042.0	1034.5	1023.2	1008.1	995.0	985.6
35°	979.9	981.8	979.9	968.6	961.1	957.4	953.6	940.4	927.3	912.2	904.7
37.5°	891.5	885.9	887.8	878.4	869.0	872.7	861.4	855.8	840.7	829.5	821.9
40°	795.6	799.4	791.8	788.1	782.4	776.8	776.8	767.4	759.9	746.7	742.9
42.5°	701.6	707.2	705.3	701.6	694.0	695.9	686.5	682.7	673.3	667.7	662.1
45°	626.3	626.3	626.3	622.6	620.7	616.9	611.3	605.6	600.0	592.5	588.7
47.5°	553.0	553.0	554.8	551.1	547.3	545.4	541.7	541.7	532.3	524.8	521.0
50°	492.8	492.8	492.8	489.0	485.3	485.3	481.5	477.7	472.1	466.4	462.7
52.5°	438.2	438.2	438.2	434.5	432.6	430.7	428.8	427.0	419.4	415.7	411.9
55°	393.1	391.2	391.2	389.3	385.6	385.6	383.7	379.9	374.3	368.6	366.8
57.5°	348.0	349.8	348.0	348.0	344.2	344.2	340.4	338.6	332.9	329.1	325.4
60°	312.2	312.2	312.2	310.3	306.6	308.5	304.7	302.8	297.2	291.5	287.8
62.5°	276.5	278.4	278.4	276.5	272.7	272.7	270.8	269.0	263.3	257.7	252.0
65°	246.4	246.4	246.4	244.5	242.6	242.6	240.7	238.9	233.2	225.7	220.1
67.5°	218.2	216.3	216.3	216.3	214.4	212.5	210.7	208.8	203.1	197.5	190.0
70°	190.0	190.0	190.0	188.1	184.3	186.2	184.3	182.4	176.8	171.2	165.5
72.5°	163.6	163.6	161.8	159.9	159.9	158.0	158.0	156.1	150.5	142.9	137.3
75°	135.4	135.4	135.4	135.4	131.7	133.5	129.8	127.9	124.1	118.5	112.9
77.5°	111.0	111.0	111.0	109.1	107.2	107.2	105.3	103.4	97.8	94.0	86.5
80°	86.5	86.5	86.5	86.5	84.6	82.8	80.9	79.0	75.2	69.6	63.9
82.5°	63.9	63.9	62.1	62.1	62.1	60.2	58.3	56.4	52.7	48.9	45.1
85°	35.7	37.6	37.6	33.9	35.7	33.9	33.9	30.1	30.1	26.3	24.5
87.5°	13.2	11.3	11.3	11.3	11.3	11.3	11.3	9.4	9.4	9.4	7.5
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°	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1448.3	1446.4	1453.9	1453.9	1442.6	1448.3	1450.1	1446.4	1446.4	1448.3	1442.6
5°	1444.5	1440.7	1448.3	1450.1	1438.8	1444.5	1446.4	1442.6	1444.5	1446.4	1438.8
7.5°	1431.3	1431.3	1437.0	1438.8	1427.6	1433.2	1433.2	1429.4	1431.3	1431.3	1425.7
10°	1418.2	1412.5	1418.2	1418.2	1408.8	1410.6	1414.4	1412.5	1420.0	1429.4	1429.4
12.5°	1393.7	1388.1	1397.5	1397.5	1391.8	1399.3	1408.8	1414.4	1421.9	1425.7	1414.4
15°	1363.6	1365.5	1382.4	1395.6	1389.9	1401.2	1410.6	1406.9	1397.5	1386.2	1369.3
17.5°	1324.1	1318.5	1333.5	1341.0	1333.5	1337.3	1344.8	1337.3	1322.2	1312.8	1290.3
20°	1279.0	1263.9	1263.9	1260.2	1247.0	1247.0	1245.1	1232.0	1226.3	1220.7	1211.3
22.5°	1228.2	1211.3	1205.6	1194.3	1183.1	1181.2	1175.5	1162.4	1154.8	1151.1	1139.8
25°	1169.9	1154.8	1145.4	1134.1	1117.2	1113.5	1107.8	1094.7	1090.9	1085.2	1075.8
27.5°	1109.7	1090.9	1077.7	1066.4	1051.4	1049.5	1038.2	1028.8	1021.3	1017.5	1010.0
30°	1040.1	1019.4	1010.0	995.0	983.7	979.9	970.5	957.4	951.7	947.9	942.3
32.5°	963.0	946.1	936.7	923.5	908.4	910.3	899.0	887.8	884.0	880.2	874.6
35°	887.8	870.8	859.5	848.3	838.9	835.1	827.6	818.2	812.5	810.6	806.9
37.5°	805.0	791.8	782.4	771.1	763.6	759.9	756.1	746.7	742.9	742.9	735.4
40°	724.1	712.8	705.3	699.7	690.3	688.4	684.6	679.0	677.1	675.2	669.6
42.5°	650.8	635.7	630.1	626.3	620.7	616.9	615.0	611.3	609.4	607.5	601.9
45°	581.2	568.0	562.4	558.6	553.0	551.1	549.2	543.6	539.8	536.0	534.2
47.5°	513.5	504.1	502.2	492.8	489.0	485.3	481.5	477.7	475.9	474.0	466.4
50°	455.2	449.5	440.1	434.5	430.7	428.8	421.3	415.7	413.8	411.9	406.3
52.5°	402.5	395.0	389.3	379.9	378.0	374.3	370.5	363.0	359.2	357.4	351.7
55°	355.5	349.8	342.3	334.8	329.1	327.3	321.6	314.1	310.3	306.6	302.8
57.5°	316.0	306.6	299.1	291.5	287.8	282.1	276.5	272.7	267.1	261.4	255.8
60°	278.4	270.8	261.4	253.9	250.2	246.4	238.9	233.2	227.6	221.9	216.3
62.5°	242.6	235.1	225.7	218.2	214.4	210.7	203.1	197.5	191.8	186.2	178.7
65°	210.7	203.1	195.6	188.1	184.3	180.6	173.0	165.5	159.9	154.2	146.7
67.5°	184.3	174.9	167.4	159.9	156.1	152.3	144.8	139.2	131.7	126.0	118.5
70°	156.1	148.6	142.9	135.4	131.7	127.9	120.4	112.9	107.2	101.6	94.0
72.5°	131.7	122.3	116.6	109.1	105.3	103.4	95.9	90.3	84.6	77.1	71.5
75°	105.3	97.8	90.3	84.6	80.9	79.0	71.5	65.8	60.2	54.5	48.9
77.5°	80.9	75.2	67.7	62.1	58.3	56.4	48.9	43.3	37.6	33.9	28.2
80°	60.2	52.7	48.9	43.3	41.4	37.6	33.9	28.2	24.5	18.8	15.0
82.5°	41.4	35.7	32.0	28.2	26.3	24.5	20.7	16.9	13.2	11.3	9.4
85°	22.6	18.8	16.9	15.0	13.2	13.2	11.3	9.4	7.5	5.6	3.8
87.5°	7.5	5.6	5.6	5.6	5.6	3.8	3.8	3.8	1.9	1.9	1.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1446.4	1446.4	1446.4	1444.5	1444.5	1444.5	1442.6	1450.1	1442.6	1440.7	1446.4
5°	1444.5	1440.7	1440.7	1440.7	1440.7	1438.8	1437.0	1440.7	1435.1	1433.2	1433.2
7.5°	1433.2	1431.3	1431.3	1429.4	1427.6	1425.7	1423.8	1425.7	1420.0	1418.2	1418.2
10°	1435.1	1431.3	1431.3	1425.7	1421.9	1416.3	1410.6	1412.5	1405.0	1399.3	1399.3
12.5°	1412.5	1403.1	1397.5	1391.8	1388.1	1386.2	1378.7	1382.4	1374.9	1373.0	1373.0
15°	1361.7	1350.4	1341.0	1337.3	1337.3	1333.5	1327.9	1335.4	1331.6	1333.5	1342.9
17.5°	1282.7	1277.1	1271.5	1269.6	1271.5	1275.2	1279.0	1290.3	1290.3	1295.9	1305.3
20°	1213.1	1209.4	1213.1	1213.1	1215.0	1222.5	1230.1	1239.5	1243.2	1248.9	1262.0
22.5°	1145.4	1145.4	1149.2	1154.8	1153.0	1166.1	1168.0	1184.9	1184.9	1196.2	1207.5
25°	1079.6	1079.6	1083.4	1085.2	1089.0	1096.5	1104.1	1117.2	1121.0	1132.3	1141.7
27.5°	1015.7	1013.8	1013.8	1015.7	1019.4	1028.8	1032.6	1047.6	1053.3	1060.8	1070.2
30°	944.2	942.3	946.1	949.8	947.9	957.4	963.0	974.3	978.0	985.6	993.1
32.5°	876.5	876.5	876.5	880.2	880.2	887.8	887.8	900.9	900.9	906.6	914.1
35°	806.9	806.9	808.8	810.6	812.5	814.4	816.3	823.8	825.7	827.6	831.3
37.5°	741.1	739.2	741.1	741.1	737.3	744.8	744.8	752.3	746.7	752.3	754.2
40°	673.3	673.3	671.5	671.5	671.5	675.2	671.5	677.1	673.3	677.1	675.2
42.5°	603.8	603.8	600.0	603.8	601.9	601.9	601.9	605.6	600.0	603.8	605.6
45°	534.2	532.3	532.3	530.4	530.4	530.4	532.3	532.3	530.4	534.2	534.2
47.5°	466.4	464.6	464.6	464.6	464.6	466.4	460.8	464.6	460.8	460.8	460.8
50°	408.1	406.3	404.4	402.5	400.6	400.6	398.7	398.7	395.0	393.1	391.2
52.5°	351.7	349.8	346.1	346.1	344.2	342.3	336.7	336.7	331.0	329.1	329.1
55°	300.9	295.3	293.4	289.7	289.7	285.9	282.1	278.4	272.7	269.0	269.0
57.5°	253.9	248.3	244.5	242.6	240.7	237.0	229.5	227.6	220.1	218.2	216.3
60°	212.5	206.9	201.3	197.5	195.6	190.0	182.4	178.7	174.9	169.3	163.6
62.5°	173.0	167.4	159.9	158.0	154.2	148.6	142.9	137.3	133.5	127.9	124.1
65°	139.2	133.5	127.9	124.1	120.4	114.7	109.1	103.4	99.7	97.8	95.9
67.5°	112.9	105.3	99.7	97.8	94.0	90.3	84.6	82.8	79.0	79.0	79.0
70°	88.4	82.8	77.1	75.2	73.4	69.6	65.8	65.8	65.8	65.8	65.8
72.5°	65.8	62.1	56.4	54.5	52.7	50.8	47.0	48.9	47.0	47.0	47.0
75°	41.4	37.6	33.9	32.0	30.1	28.2	26.3	24.5	22.6	20.7	20.7
77.5°	22.6	18.8	16.9	15.0	15.0	13.2	11.3	11.3	9.4	9.4	9.4
80°	13.2	11.3	9.4	7.5	7.5	5.6	5.6	5.6	5.6	3.8	3.8
82.5°	7.5	5.6	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9
85°	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P252375

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1437.0	1442.6	1437.0	1442.6	1442.6	1442.6	1442.6	1437.0
5°	1427.6	1431.3	1425.7	1429.4	1431.3	1429.4	1429.4	1423.8
7.5°	1410.6	1414.4	1408.8	1414.4	1416.3	1414.4	1412.5	1408.8
10°	1393.7	1395.6	1389.9	1393.7	1397.5	1397.5	1395.6	1389.9
12.5°	1367.4	1373.0	1367.4	1371.1	1374.9	1376.8	1376.8	1371.1
15°	1337.3	1346.7	1342.9	1348.6	1354.2	1356.1	1356.1	1354.2
17.5°	1307.2	1316.6	1310.9	1320.4	1326.0	1329.8	1331.6	1327.9
20°	1263.9	1275.2	1271.5	1279.0	1286.5	1292.1	1292.1	1286.5
22.5°	1207.5	1222.5	1220.7	1226.3	1235.7	1237.6	1241.4	1237.6
25°	1145.4	1156.7	1154.8	1160.5	1171.8	1171.8	1173.6	1173.6
27.5°	1074.0	1085.2	1083.4	1087.1	1094.7	1096.5	1098.4	1094.7
30°	996.8	1002.5	1002.5	1008.1	1013.8	1015.7	1015.7	1010.0
32.5°	912.2	919.7	923.5	921.6	927.3	931.0	929.1	929.1
35°	835.1	837.0	838.9	840.7	842.6	846.4	842.6	840.7
37.5°	752.3	758.0	754.2	758.0	761.7	759.9	758.0	758.0
40°	677.1	679.0	675.2	679.0	680.9	680.9	680.9	677.1
42.5°	601.9	605.6	601.9	605.6	605.6	605.6	605.6	603.8
45°	526.6	530.4	530.4	532.3	532.3	530.4	530.4	530.4
47.5°	457.0	460.8	457.0	460.8	462.7	458.9	458.9	458.9
50°	391.2	389.3	389.3	391.2	391.2	391.2	391.2	389.3
52.5°	323.5	325.4	325.4	325.4	327.3	325.4	327.3	327.3
55°	265.2	265.2	265.2	267.1	265.2	265.2	267.1	269.0
57.5°	212.5	210.7	208.8	208.8	210.7	208.8	208.8	208.8
60°	163.6	161.8	159.9	159.9	159.9	159.9	159.9	158.0
62.5°	122.3	122.3	122.3	124.1	124.1	124.1	124.1	126.0
65°	97.8	97.8	97.8	97.8	97.8	97.8	97.8	99.7
67.5°	79.0	79.0	79.0	80.9	80.9	80.9	80.9	80.9
70°	65.8	65.8	67.7	65.8	67.7	67.7	67.7	67.7
72.5°	45.1	45.1	45.1	45.1	45.1	43.3	45.1	43.3
75°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	16.9
77.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	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)