

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: P252376

Luminaire Tested: **LD6B30D010 EU6B30508030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252376
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 EU6B30508030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2672.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

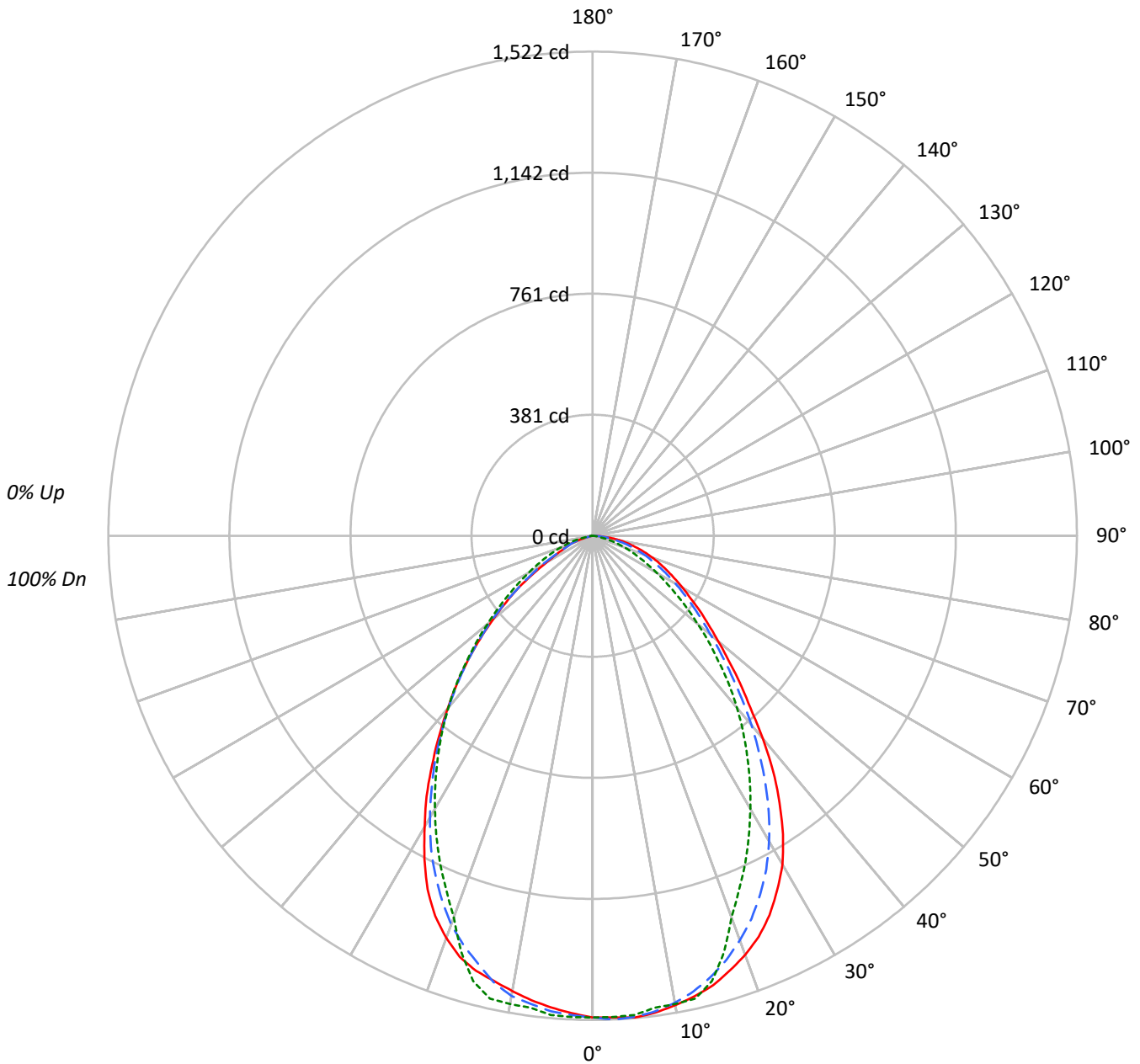
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	98774	98774	98774
5°	99538	99021	97475
10°	99251	98993	96257
15°	98807	97875	95619
20°	97331	88597	93373
25°	94689	81667	88318
30°	89910	74655	79545
35°	81587	67490	69999
40°	70832	60118	60280
45°	60405	51705	51160
50°	52281	43704	41309
55°	46737	36455	31985
60°	42589	30272	21556
65°	39766	24885	16086
70°	37883	20258	13505
75°	35693	14368	4462
80°	33964	7401	1465
85°	27996	4416	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	5.4
10°-20°	399.9	15.0
20°-30°	551.9	20.7
30°-40°	561.7	21.0
40°-50°	451.4	16.9
50°-60°	300.1	11.2
60°-70°	171.0	6.4
70°-80°	76.8	2.9
80°-90°	16.2	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°	1094.8	41.0
0°-40°	1656.4	62.0
0°-60°	2408.0	90.1
0°-90°	2672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2672.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1514	1514	1514	1514	1514	
5°	1520	1518	1512	1500	1488	144
15°	1463	1435	1449	1392	1416	412
25°	1315	1245	1134	1172	1227	603
35°	1024	946	847	863	879	637
45°	655	615	560	554	554	508
55°	411	383	320	285	281	369
65°	258	230	161	104	104	257
75°	142	118	57	24	18	151
85°	37	26	6	2	0	44
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°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1515.9	1523.8	1521.8	1519.9	1521.8	1519.9	1515.9	1515.9	1512.0	1512.0	1521.8
5°	1519.9	1523.8	1521.8	1519.9	1519.9	1521.8	1514.0	1514.0	1510.0	1508.1	1517.9
7.5°	1512.0	1517.9	1514.0	1514.0	1512.0	1514.0	1506.1	1506.1	1500.2	1498.2	1508.1
10°	1498.2	1506.1	1502.2	1502.2	1502.2	1498.2	1494.3	1492.3	1486.5	1484.5	1490.4
12.5°	1482.5	1488.4	1486.5	1482.5	1482.5	1482.5	1474.7	1472.7	1464.8	1460.9	1466.8
15°	1462.9	1466.8	1464.8	1462.9	1458.9	1458.9	1451.1	1447.1	1439.3	1431.4	1435.3
17.5°	1433.4	1439.3	1435.3	1433.4	1427.5	1427.5	1419.6	1415.7	1403.9	1396.0	1398.0
20°	1401.9	1403.9	1401.9	1398.0	1392.1	1390.1	1382.2	1374.4	1364.5	1354.7	1352.7
22.5°	1364.5	1366.5	1360.6	1356.7	1350.8	1348.8	1339.0	1333.1	1317.4	1305.6	1303.6
25°	1315.4	1317.4	1317.4	1307.5	1303.6	1299.7	1289.8	1280.0	1266.2	1250.5	1244.6
27.5°	1256.4	1262.3	1258.4	1248.5	1240.7	1238.7	1228.9	1221.0	1203.3	1189.6	1181.7
30°	1193.5	1191.5	1189.6	1183.7	1171.9	1169.9	1160.1	1150.2	1136.5	1118.8	1108.9
32.5°	1112.9	1112.9	1110.9	1105.0	1093.2	1089.3	1081.4	1069.6	1053.9	1040.1	1030.3
35°	1024.4	1026.4	1024.4	1012.6	1004.7	1000.8	996.9	983.1	969.3	953.6	945.7
37.5°	932.0	926.1	928.0	918.2	908.4	912.3	900.5	894.6	878.9	867.1	859.2
40°	831.7	835.6	827.8	823.8	817.9	812.0	812.0	802.2	794.3	780.6	776.7
42.5°	733.4	739.3	737.3	733.4	725.5	727.5	717.7	713.7	703.9	698.0	692.1
45°	654.7	654.7	654.7	650.8	648.8	644.9	639.0	633.1	627.2	619.4	615.4
47.5°	578.1	578.1	580.0	576.1	572.2	570.2	566.3	566.3	556.4	548.6	544.6
50°	515.1	515.1	515.1	511.2	507.3	507.3	503.3	499.4	493.5	487.6	483.7
52.5°	458.1	458.1	458.1	454.2	452.2	450.3	448.3	446.3	438.5	434.5	430.6
55°	410.9	409.0	409.0	407.0	403.1	403.1	401.1	397.2	391.3	385.4	383.4
57.5°	363.7	365.7	363.7	363.7	359.8	359.8	355.9	353.9	348.0	344.1	340.2
60°	326.4	326.4	326.4	324.4	320.5	322.5	318.5	316.6	310.7	304.8	300.8
62.5°	289.0	291.0	291.0	289.0	285.1	285.1	283.1	281.2	275.3	269.4	263.5
65°	257.6	257.6	257.6	255.6	253.6	253.6	251.7	249.7	243.8	235.9	230.0
67.5°	228.1	226.1	226.1	226.1	224.1	222.2	220.2	218.2	212.4	206.5	198.6
70°	198.6	198.6	198.6	196.6	192.7	194.7	192.7	190.7	184.8	178.9	173.0
72.5°	171.1	171.1	169.1	167.1	167.1	165.2	165.2	163.2	157.3	149.4	143.5
75°	141.6	141.6	141.6	141.6	137.6	139.6	135.7	133.7	129.8	123.9	118.0
77.5°	116.0	116.0	116.0	114.0	112.1	112.1	110.1	108.1	102.2	98.3	90.4
80°	90.4	90.4	90.4	90.4	88.5	86.5	84.5	82.6	78.6	72.7	66.9
82.5°	66.9	66.9	64.9	64.9	64.9	62.9	61.0	59.0	55.1	51.1	47.2
85°	37.4	39.3	39.3	35.4	37.4	35.4	35.4	31.5	31.5	27.5	25.6
87.5°	13.8	11.8	11.8	11.8	11.8	11.8	11.8	9.8	9.8	9.8	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°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1514.0	1512.0	1519.9	1519.9	1508.1	1514.0	1515.9	1512.0	1512.0	1514.0	1508.1
5°	1510.0	1506.1	1514.0	1515.9	1504.1	1510.0	1512.0	1508.1	1510.0	1512.0	1504.1
7.5°	1496.3	1496.3	1502.2	1504.1	1492.3	1498.2	1498.2	1494.3	1496.3	1496.3	1490.4
10°	1482.5	1476.6	1482.5	1482.5	1472.7	1474.7	1478.6	1476.6	1484.5	1494.3	1494.3
12.5°	1457.0	1451.1	1460.9	1460.9	1455.0	1462.9	1472.7	1478.6	1486.5	1490.4	1478.6
15°	1425.5	1427.5	1445.2	1458.9	1453.0	1464.8	1474.7	1470.7	1460.9	1449.1	1431.4
17.5°	1384.2	1378.3	1394.0	1401.9	1394.0	1398.0	1405.8	1398.0	1382.2	1372.4	1348.8
20°	1337.0	1321.3	1321.3	1317.4	1303.6	1303.6	1301.6	1287.9	1282.0	1276.1	1266.2
22.5°	1283.9	1266.2	1260.3	1248.5	1236.7	1234.8	1228.9	1215.1	1207.2	1203.3	1191.5
25°	1223.0	1207.2	1197.4	1185.6	1167.9	1164.0	1158.1	1144.3	1140.4	1134.5	1124.7
27.5°	1160.1	1140.4	1126.6	1114.8	1099.1	1097.1	1085.3	1075.5	1067.6	1063.7	1055.9
30°	1087.3	1065.7	1055.9	1040.1	1028.3	1024.4	1014.6	1000.8	994.9	991.0	985.1
32.5°	1006.7	989.0	979.2	965.4	949.7	951.6	939.8	928.0	924.1	920.2	914.3
35°	928.0	910.4	898.6	886.8	876.9	873.0	865.1	855.3	849.4	847.4	843.5
37.5°	841.5	827.8	817.9	806.1	798.3	794.3	790.4	780.6	776.7	776.7	768.8
40°	757.0	745.2	737.3	731.4	721.6	719.6	715.7	709.8	707.8	705.9	700.0
42.5°	680.3	664.6	658.7	654.7	648.8	644.9	642.9	639.0	637.1	635.1	629.2
45°	607.6	593.8	587.9	584.0	578.1	576.1	574.1	568.2	564.3	560.4	558.4
47.5°	536.8	526.9	525.0	515.1	511.2	507.3	503.3	499.4	497.4	495.5	487.6
50°	475.8	469.9	460.1	454.2	450.3	448.3	440.4	434.5	432.6	430.6	424.7
52.5°	420.8	412.9	407.0	397.2	395.2	391.3	387.3	379.5	375.5	373.6	367.7
55°	371.6	365.7	357.8	350.0	344.1	342.1	336.2	328.4	324.4	320.5	316.6
57.5°	330.3	320.5	312.6	304.8	300.8	294.9	289.0	285.1	279.2	273.3	267.4
60°	291.0	283.1	273.3	265.4	261.5	257.6	249.7	243.8	237.9	232.0	226.1
62.5°	253.6	245.8	235.9	228.1	224.1	220.2	212.4	206.5	200.6	194.7	186.8
65°	220.2	212.4	204.5	196.6	192.7	188.8	180.9	173.0	167.1	161.2	153.4
67.5°	192.7	182.9	175.0	167.1	163.2	159.3	151.4	145.5	137.6	131.7	123.9
70°	163.2	155.3	149.4	141.6	137.6	133.7	125.8	118.0	112.1	106.2	98.3
72.5°	137.6	127.8	121.9	114.0	110.1	108.1	100.3	94.4	88.5	80.6	74.7
75°	110.1	102.2	94.4	88.5	84.5	82.6	74.7	68.8	62.9	57.0	51.1
77.5°	84.5	78.6	70.8	64.9	61.0	59.0	51.1	45.2	39.3	35.4	29.5
80°	62.9	55.1	51.1	45.2	43.3	39.3	35.4	29.5	25.6	19.7	15.7
82.5°	43.3	37.4	33.4	29.5	27.5	25.6	21.6	17.7	13.8	11.8	9.8
85°	23.6	19.7	17.7	15.7	13.8	13.8	11.8	9.8	7.9	5.9	3.9
87.5°	7.9	5.9	5.9	5.9	5.9	3.9	3.9	3.9	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°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1512.0	1512.0	1512.0	1510.0	1510.0	1510.0	1508.1	1515.9	1508.1	1506.1	1512.0
5°	1510.0	1506.1	1506.1	1506.1	1506.1	1504.1	1502.2	1506.1	1500.2	1498.2	1498.2
7.5°	1498.2	1496.3	1496.3	1494.3	1492.3	1490.4	1488.4	1490.4	1484.5	1482.5	1482.5
10°	1500.2	1496.3	1496.3	1490.4	1486.5	1480.6	1474.7	1476.6	1468.8	1462.9	1462.9
12.5°	1476.6	1466.8	1460.9	1455.0	1451.1	1449.1	1441.2	1445.2	1437.3	1435.3	1435.3
15°	1423.5	1411.7	1401.9	1398.0	1398.0	1394.0	1388.1	1396.0	1392.1	1394.0	1403.9
17.5°	1341.0	1335.1	1329.2	1327.2	1329.2	1333.1	1337.0	1348.8	1348.8	1354.7	1364.5
20°	1268.2	1264.3	1268.2	1268.2	1270.2	1278.0	1285.9	1295.7	1299.7	1305.6	1319.3
22.5°	1197.4	1197.4	1201.4	1207.2	1205.3	1219.0	1221.0	1238.7	1238.7	1250.5	1262.3
25°	1128.6	1128.6	1132.5	1134.5	1138.4	1146.3	1154.2	1167.9	1171.9	1183.7	1193.5
27.5°	1061.8	1059.8	1059.8	1061.8	1065.7	1075.5	1079.4	1095.2	1101.1	1108.9	1118.8
30°	987.0	985.1	989.0	992.9	991.0	1000.8	1006.7	1018.5	1022.4	1030.3	1038.2
32.5°	916.3	916.3	916.3	920.2	920.2	928.0	928.0	941.8	941.8	947.7	955.6
35°	843.5	843.5	845.5	847.4	849.4	851.4	853.3	861.2	863.2	865.1	869.1
37.5°	774.7	772.7	774.7	774.7	770.8	778.6	778.6	786.5	780.6	786.5	788.4
40°	703.9	703.9	701.9	701.9	701.9	705.9	701.9	707.8	703.9	707.8	705.9
42.5°	631.2	631.2	627.2	631.2	629.2	629.2	629.2	633.1	627.2	631.2	633.1
45°	558.4	556.4	556.4	554.5	554.5	554.5	556.4	556.4	554.5	558.4	558.4
47.5°	487.6	485.7	485.7	485.7	485.7	487.6	481.7	485.7	481.7	481.7	481.7
50°	426.7	424.7	422.7	420.8	418.8	418.8	416.8	416.8	412.9	410.9	409.0
52.5°	367.7	365.7	361.8	361.8	359.8	357.8	352.0	352.0	346.1	344.1	344.1
55°	314.6	308.7	306.7	302.8	302.8	298.9	294.9	291.0	285.1	281.2	281.2
57.5°	265.4	259.5	255.6	253.6	251.7	247.7	239.9	237.9	230.0	228.1	226.1
60°	222.2	216.3	210.4	206.5	204.5	198.6	190.7	186.8	182.9	177.0	171.1
62.5°	180.9	175.0	167.1	165.2	161.2	155.3	149.4	143.5	139.6	133.7	129.8
65°	145.5	139.6	133.7	129.8	125.8	119.9	114.0	108.1	104.2	102.2	100.3
67.5°	118.0	110.1	104.2	102.2	98.3	94.4	88.5	86.5	82.6	82.6	82.6
70°	92.4	86.5	80.6	78.6	76.7	72.7	68.8	68.8	68.8	68.8	68.8
72.5°	68.8	64.9	59.0	57.0	55.1	53.1	49.2	51.1	49.2	49.2	49.2
75°	43.3	39.3	35.4	33.4	31.5	29.5	27.5	25.6	23.6	21.6	21.6
77.5°	23.6	19.7	17.7	15.7	15.7	13.8	11.8	11.8	9.8	9.8	9.8
80°	13.8	11.8	9.8	7.9	7.9	5.9	5.9	5.9	5.9	3.9	3.9
82.5°	7.9	5.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0
85°	3.9	3.9	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: P252376

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0	1514.0
2.5°	1502.2	1508.1	1502.2	1508.1	1508.1	1508.1	1508.1	1502.2
5°	1492.3	1496.3	1490.4	1494.3	1496.3	1494.3	1494.3	1488.4
7.5°	1474.7	1478.6	1472.7	1478.6	1480.6	1478.6	1476.6	1472.7
10°	1457.0	1458.9	1453.0	1457.0	1460.9	1460.9	1458.9	1453.0
12.5°	1429.4	1435.3	1429.4	1433.4	1437.3	1439.3	1439.3	1433.4
15°	1398.0	1407.8	1403.9	1409.8	1415.7	1417.6	1417.6	1415.7
17.5°	1366.5	1376.3	1370.4	1380.3	1386.2	1390.1	1392.1	1388.1
20°	1321.3	1333.1	1329.2	1337.0	1344.9	1350.8	1350.8	1344.9
22.5°	1262.3	1278.0	1276.1	1282.0	1291.8	1293.8	1297.7	1293.8
25°	1197.4	1209.2	1207.2	1213.1	1224.9	1224.9	1226.9	1226.9
27.5°	1122.7	1134.5	1132.5	1136.5	1144.3	1146.3	1148.3	1144.3
30°	1042.1	1048.0	1048.0	1053.9	1059.8	1061.8	1061.8	1055.9
32.5°	953.6	961.5	965.4	963.4	969.3	973.3	971.3	971.3
35°	873.0	875.0	876.9	878.9	880.9	884.8	880.9	878.9
37.5°	786.5	792.4	788.4	792.4	796.3	794.3	792.4	792.4
40°	707.8	709.8	705.9	709.8	711.8	711.8	711.8	707.8
42.5°	629.2	633.1	629.2	633.1	633.1	633.1	633.1	631.2
45°	550.5	554.5	554.5	556.4	556.4	554.5	554.5	554.5
47.5°	477.8	481.7	477.8	481.7	483.7	479.8	479.8	479.8
50°	409.0	407.0	407.0	409.0	409.0	409.0	409.0	407.0
52.5°	338.2	340.2	340.2	340.2	342.1	340.2	342.1	342.1
55°	277.2	277.2	277.2	279.2	277.2	277.2	279.2	281.2
57.5°	222.2	220.2	218.2	218.2	220.2	218.2	218.2	218.2
60°	171.1	169.1	167.1	167.1	167.1	167.1	167.1	165.2
62.5°	127.8	127.8	127.8	129.8	129.8	129.8	129.8	131.7
65°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	104.2
67.5°	82.6	82.6	82.6	84.5	84.5	84.5	84.5	84.5
70°	68.8	68.8	70.8	68.8	70.8	70.8	70.8	70.8
72.5°	47.2	47.2	47.2	47.2	47.2	45.2	47.2	45.2
75°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	17.7
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)