

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: P252697

Luminaire Tested: **LD6B30D010 EU6B30509050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2404.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

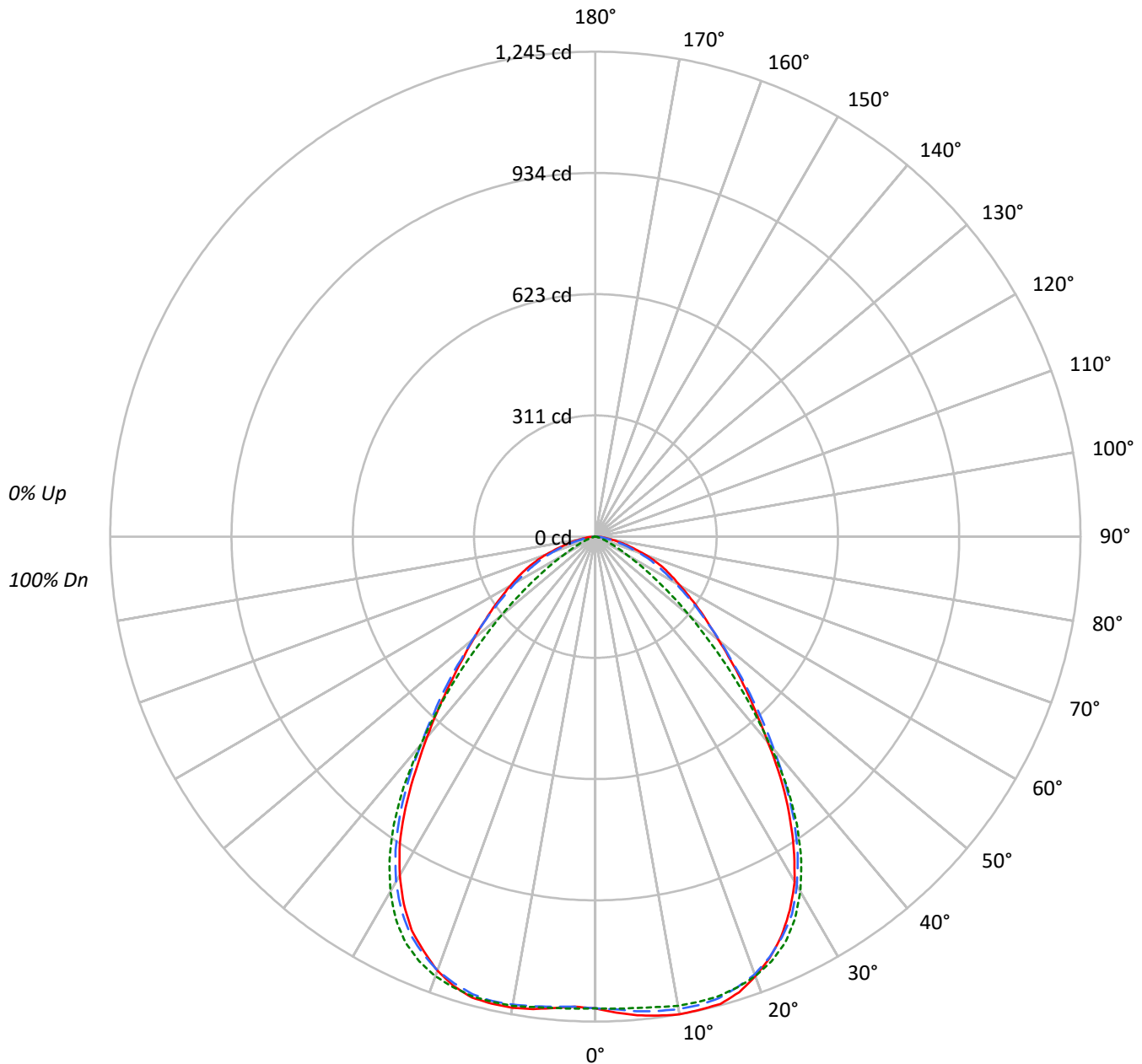
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	107	104	101	109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75	93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65	87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58	80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52	75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47	70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42	66	54	47	42		53	47	42		52	46	42		51	45	41
9	63	51	43	38	62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35	58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79019	79019	79019
5°	80782	79544	79544
10°	82504	81033	81371
15°	83887	82503	82732
20°	83376	83376	82306
25°	81394	82869	80285
30°	77043	79243	75627
35°	69036	71767	67674
40°	58654	59377	57189
45°	49629	45366	47894
50°	41908	31992	41380
55°	36830	20656	36443
60°	32633	12291	32855
65°	30149	7410	30149
70°	26152	4254	25484
75°	20720	2596	19435
80°	15442	1916	14803
85°	14073	1273	12800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	4.9
10°-20°	345.1	14.4
20°-30°	519.0	21.6
30°-40°	545.7	22.7
40°-50°	407.7	17.0
50°-60°	253.8	10.6
60°-70°	144.3	6.0
70°-80°	59.4	2.5
80°-90°	12.3	0.5
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°	980.8	40.8
0°-40°	1526.5	63.5
0°-60°	2187.9	91.0
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1211	1211	1211	1211	1211	
5°	1234	1223	1215	1211	1215	118
15°	1242	1227	1222	1216	1225	349
25°	1131	1134	1151	1126	1115	518
35°	867	889	901	875	850	538
45°	538	550	492	540	519	417
55°	324	317	182	312	320	291
65°	195	175	48	175	195	192
75°	82	65	10	63	77	89
85°	19	12	2	10	17	21
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°	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2
2.5°	1223.2	1221.5	1223.2	1219.8	1218.0	1218.0	1219.8	1216.3	1214.6	1216.3	1214.6
5°	1233.5	1230.0	1231.7	1230.0	1226.6	1226.6	1228.3	1223.2	1223.2	1224.9	1223.2
7.5°	1240.3	1240.3	1240.3	1236.9	1235.2	1233.5	1236.9	1231.7	1230.0	1230.0	1228.3
10°	1245.4	1243.7	1245.4	1242.0	1238.6	1236.9	1240.3	1236.9	1233.5	1236.9	1231.7
12.5°	1243.7	1243.7	1243.7	1242.0	1238.6	1236.9	1240.3	1235.2	1233.5	1235.2	1231.7
15°	1242.0	1236.9	1238.6	1236.9	1231.7	1231.7	1233.5	1228.3	1224.9	1230.0	1226.6
17.5°	1226.6	1223.2	1224.9	1221.5	1218.0	1216.3	1218.0	1216.3	1212.9	1216.3	1212.9
20°	1200.9	1200.9	1202.6	1199.2	1195.8	1194.1	1197.5	1194.1	1190.6	1195.8	1195.8
22.5°	1170.1	1170.1	1170.1	1168.4	1166.6	1166.6	1166.6	1164.9	1163.2	1166.6	1168.4
25°	1130.7	1129.0	1130.7	1132.4	1130.7	1129.0	1130.7	1130.7	1127.2	1134.1	1134.1
27.5°	1081.0	1081.0	1084.4	1082.7	1082.7	1081.0	1084.4	1084.4	1082.7	1087.8	1093.0
30°	1022.7	1019.3	1022.7	1022.7	1024.5	1024.5	1026.2	1026.2	1026.2	1031.3	1034.7
32.5°	947.4	949.1	954.2	952.5	950.8	955.9	955.9	959.4	961.1	964.5	966.2
35°	866.8	868.6	868.6	870.3	873.7	870.3	878.8	877.1	878.8	885.7	889.1
37.5°	781.2	776.1	784.6	781.2	782.9	782.9	786.3	788.0	793.2	801.7	801.7
40°	688.7	690.4	693.8	695.5	697.2	697.2	697.2	702.4	704.1	714.4	712.7
42.5°	608.2	608.2	611.6	613.3	613.3	613.3	613.3	618.4	621.9	625.3	628.7
45°	537.9	532.8	536.2	536.2	539.6	537.9	541.4	544.8	546.5	551.6	549.9
47.5°	471.1	469.4	471.1	472.8	471.1	472.8	474.5	476.3	478.0	478.0	478.0
50°	412.9	412.9	414.6	416.3	416.3	416.3	416.3	418.0	418.0	421.4	418.0
52.5°	364.9	366.6	366.6	364.9	366.6	366.6	368.3	368.3	366.6	366.6	361.5
55°	323.8	322.1	323.8	322.1	323.8	323.8	322.1	322.1	320.4	318.6	316.9
57.5°	284.4	284.4	284.4	284.4	282.7	284.4	282.7	281.0	281.0	277.5	272.4
60°	250.1	250.1	250.1	250.1	250.1	248.4	250.1	248.4	245.0	241.6	234.7
62.5°	221.0	219.3	221.0	219.3	219.3	217.6	217.6	215.9	212.4	209.0	202.1
65°	195.3	197.0	195.3	195.3	193.6	191.9	191.9	190.2	185.0	181.6	174.7
67.5°	167.9	166.2	166.2	166.2	164.5	164.5	164.5	161.0	157.6	152.5	145.6
70°	137.1	137.1	137.1	135.3	135.3	133.6	133.6	131.9	128.5	125.1	116.5
72.5°	107.9	107.9	107.9	104.5	106.2	104.5	104.5	101.1	99.4	94.2	89.1
75°	82.2	82.2	80.5	80.5	78.8	77.1	77.1	75.4	73.7	70.2	65.1
77.5°	60.0	60.0	60.0	58.2	56.5	54.8	54.8	53.1	51.4	49.7	46.3
80°	41.1	41.1	41.1	41.1	39.4	37.7	37.7	36.0	36.0	34.3	30.8
82.5°	27.4	27.4	27.4	27.4	25.7	25.7	25.7	24.0	22.3	22.3	18.8
85°	18.8	18.8	17.1	17.1	17.1	17.1	15.4	15.4	13.7	12.0	12.0
87.5°	10.3	10.3	10.3	10.3	8.6	8.6	8.6	8.6	6.9	6.9	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2
2.5°	1219.8	1219.8	1218.0	1212.9	1214.6	1212.9	1214.6	1212.9	1207.8	1212.9	1207.8
5°	1226.6	1228.3	1224.9	1218.0	1219.8	1218.0	1218.0	1216.3	1211.2	1214.6	1211.2
7.5°	1233.5	1231.7	1230.0	1223.2	1224.9	1223.2	1223.2	1219.8	1214.6	1218.0	1212.9
10°	1236.9	1236.9	1233.5	1226.6	1226.6	1224.9	1226.6	1224.9	1218.0	1223.2	1219.8
12.5°	1236.9	1235.2	1235.2	1226.6	1228.3	1226.6	1228.3	1224.9	1219.8	1223.2	1221.5
15°	1231.7	1231.7	1230.0	1221.5	1223.2	1223.2	1224.9	1221.5	1216.3	1221.5	1218.0
17.5°	1221.5	1221.5	1219.8	1212.9	1216.3	1216.3	1218.0	1214.6	1209.5	1212.9	1212.9
20°	1200.9	1202.6	1202.6	1197.5	1200.9	1200.9	1202.6	1200.9	1199.2	1200.9	1197.5
22.5°	1176.9	1180.4	1180.4	1175.2	1178.6	1178.6	1183.8	1182.1	1178.6	1180.4	1178.6
25°	1140.9	1144.4	1147.8	1144.4	1147.8	1147.8	1152.9	1151.2	1147.8	1151.2	1146.1
27.5°	1099.8	1101.5	1105.0	1101.5	1106.7	1105.0	1110.1	1108.4	1103.3	1108.4	1106.7
30°	1041.6	1048.4	1053.6	1048.4	1053.6	1053.6	1057.0	1055.3	1053.6	1051.9	1051.9
32.5°	976.5	983.3	983.3	981.6	985.1	985.1	986.8	983.3	981.6	983.3	985.1
35°	896.0	899.4	902.8	901.1	902.8	904.5	902.8	904.5	899.4	901.1	901.1
37.5°	808.6	812.0	812.0	806.9	810.3	810.3	806.9	806.9	803.5	806.9	800.0
40°	716.1	712.7	714.4	711.0	707.5	707.5	705.8	699.0	695.5	697.2	699.0
42.5°	625.3	625.3	620.2	611.6	603.0	603.0	597.9	594.5	587.6	591.0	589.3
45°	548.2	539.6	532.8	519.1	513.9	510.5	501.9	493.4	490.0	491.7	490.0
47.5°	474.5	467.7	450.6	431.7	426.6	421.4	411.2	400.9	397.4	394.0	394.0
50°	412.9	400.9	382.0	361.5	352.9	344.3	330.6	320.4	313.5	315.2	315.2
52.5°	356.3	342.6	320.4	294.7	284.4	274.1	262.1	250.1	245.0	243.3	243.3
55°	306.7	291.2	269.0	239.8	231.3	219.3	203.9	190.2	183.3	181.6	185.0
57.5°	262.1	248.4	222.7	193.6	183.3	171.3	155.9	143.9	135.3	133.6	135.3
60°	226.1	207.3	185.0	157.6	143.9	133.6	116.5	106.2	97.6	94.2	95.9
62.5°	190.2	173.0	150.8	123.3	113.1	102.8	87.4	75.4	68.5	66.8	68.5
65°	162.7	145.6	125.1	101.1	90.8	80.5	66.8	54.8	49.7	48.0	49.7
67.5°	135.3	119.9	102.8	80.5	72.0	63.4	49.7	41.1	34.3	32.5	34.3
70°	109.6	95.9	78.8	63.4	54.8	48.0	37.7	29.1	24.0	22.3	24.0
72.5°	82.2	72.0	60.0	46.3	41.1	36.0	27.4	20.6	17.1	15.4	17.1
75°	60.0	51.4	42.8	32.5	29.1	25.7	18.8	13.7	12.0	10.3	12.0
77.5°	41.1	36.0	29.1	22.3	18.8	17.1	12.0	10.3	8.6	6.9	6.9
80°	27.4	24.0	18.8	15.4	13.7	12.0	8.6	6.9	5.1	5.1	5.1
82.5°	17.1	13.7	12.0	8.6	6.9	6.9	5.1	3.4	3.4	3.4	3.4
85°	10.3	8.6	6.9	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7
87.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	0.0	0.0	1.7
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°	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2
2.5°	1211.2	1207.8	1207.8	1209.5	1211.2	1212.9	1209.5	1207.8	1207.8	1212.9	1209.5
5°	1211.2	1209.5	1209.5	1209.5	1212.9	1214.6	1211.2	1209.5	1211.2	1216.3	1214.6
7.5°	1216.3	1212.9	1214.6	1214.6	1216.3	1219.8	1216.3	1214.6	1216.3	1221.5	1218.0
10°	1219.8	1216.3	1218.0	1216.3	1221.5	1223.2	1219.8	1218.0	1219.8	1226.6	1224.9
12.5°	1221.5	1219.8	1219.8	1218.0	1223.2	1224.9	1221.5	1219.8	1221.5	1226.6	1224.9
15°	1218.0	1216.3	1216.3	1216.3	1219.8	1223.2	1218.0	1216.3	1216.3	1221.5	1219.8
17.5°	1211.2	1207.8	1207.8	1207.8	1209.5	1211.2	1206.0	1204.3	1202.6	1207.8	1206.0
20°	1199.2	1195.8	1192.3	1192.3	1194.1	1194.1	1190.6	1185.5	1185.5	1187.2	1183.8
22.5°	1176.9	1175.2	1171.8	1170.1	1173.5	1171.8	1164.9	1159.8	1158.1	1159.8	1156.4
25°	1146.1	1142.7	1140.9	1139.2	1140.9	1139.2	1132.4	1125.5	1125.5	1125.5	1120.4
27.5°	1103.3	1099.8	1098.1	1098.1	1099.8	1096.4	1089.6	1082.7	1079.3	1079.3	1074.1
30°	1048.4	1048.4	1046.7	1045.0	1043.3	1043.3	1033.0	1026.2	1022.7	1024.5	1021.0
32.5°	981.6	979.9	978.2	973.1	974.8	973.1	964.5	959.4	954.2	950.8	949.1
35°	896.0	896.0	894.3	894.3	894.3	892.5	884.0	878.8	875.4	873.7	868.6
37.5°	801.7	800.0	798.3	798.3	798.3	798.3	793.2	788.0	788.0	786.3	782.9
40°	695.5	697.2	699.0	697.2	702.4	707.5	700.7	697.2	695.5	700.7	693.8
42.5°	592.7	591.0	599.6	601.3	601.3	609.9	611.6	613.3	611.6	615.0	615.0
45°	493.4	491.7	500.2	503.7	512.2	522.5	527.6	536.2	539.6	543.1	539.6
47.5°	399.2	406.0	412.9	421.4	428.3	445.4	455.7	464.3	467.7	472.8	472.8
50°	320.4	327.2	339.2	346.1	354.6	375.2	392.3	404.3	411.2	416.3	414.6
52.5°	246.7	258.7	274.1	281.0	292.9	316.9	335.8	349.5	358.0	363.2	364.9
55°	190.2	200.4	215.9	226.1	238.1	263.8	287.8	303.2	311.8	318.6	322.1
57.5°	140.5	152.5	169.6	178.2	191.9	221.0	241.6	260.4	270.7	279.2	281.0
60°	102.8	114.8	130.2	140.5	154.2	183.3	207.3	224.4	236.4	243.3	246.7
62.5°	73.7	85.7	101.1	111.4	123.3	149.0	173.0	190.2	202.1	210.7	215.9
65°	53.1	65.1	80.5	89.1	99.4	123.3	145.6	162.7	174.7	185.0	188.4
67.5°	39.4	48.0	61.7	70.2	80.5	99.4	118.2	133.6	145.6	154.2	157.6
70°	29.1	36.0	48.0	53.1	60.0	77.1	92.5	106.2	116.5	123.3	126.8
72.5°	20.6	25.7	34.3	39.4	44.5	58.2	70.2	80.5	87.4	94.2	97.6
75°	13.7	17.1	24.0	27.4	30.8	41.1	49.7	58.2	63.4	68.5	70.2
77.5°	8.6	12.0	17.1	18.8	22.3	27.4	34.3	39.4	42.8	46.3	49.7
80°	5.1	6.9	10.3	12.0	13.7	18.8	22.3	25.7	29.1	32.5	34.3
82.5°	3.4	5.1	6.9	6.9	8.6	10.3	13.7	17.1	18.8	20.6	22.3
85°	1.7	1.7	3.4	3.4	5.1	5.1	6.9	8.6	10.3	12.0	13.7
87.5°	1.7	1.7	1.7	1.7	3.4	3.4	5.1	5.1	5.1	6.9	6.9
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: P252697

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2	1211.2
2.5°	1206.0	1211.2	1206.0	1209.5	1207.8	1207.8	1206.0	1207.8
5°	1211.2	1218.0	1211.2	1216.3	1212.9	1212.9	1212.9	1214.6
7.5°	1216.3	1223.2	1218.0	1223.2	1221.5	1219.8	1219.8	1223.2
10°	1221.5	1226.6	1223.2	1228.3	1226.6	1224.9	1224.9	1228.3
12.5°	1221.5	1228.3	1224.9	1230.0	1228.3	1226.6	1226.6	1228.3
15°	1216.3	1224.9	1219.8	1224.9	1223.2	1221.5	1221.5	1224.9
17.5°	1200.9	1207.8	1204.3	1207.8	1207.8	1206.0	1207.8	1209.5
20°	1180.4	1185.5	1182.1	1185.5	1185.5	1182.1	1183.8	1185.5
22.5°	1151.2	1156.4	1152.9	1156.4	1154.7	1152.9	1152.9	1151.2
25°	1115.3	1122.1	1117.0	1120.4	1117.0	1113.5	1113.5	1115.3
27.5°	1070.7	1075.8	1069.0	1072.4	1069.0	1065.6	1065.6	1063.9
30°	1012.5	1014.2	1009.0	1012.5	1009.0	1007.3	1003.9	1003.9
32.5°	942.2	943.9	938.8	938.8	935.4	935.4	928.5	933.7
35°	860.0	861.7	860.0	858.3	853.1	851.4	849.7	849.7
37.5°	774.3	774.3	769.2	767.5	764.1	760.6	762.3	757.2
40°	687.0	685.3	680.1	681.8	680.1	675.0	673.3	671.5
42.5°	604.7	604.7	599.6	601.3	597.9	596.2	591.0	592.7
45°	532.8	532.8	527.6	527.6	525.9	520.8	522.5	519.1
47.5°	467.7	467.7	466.0	466.0	460.8	459.1	459.1	459.1
50°	411.2	411.2	411.2	411.2	409.4	407.7	406.0	407.7
52.5°	363.2	366.6	364.9	364.9	363.2	361.5	359.8	359.8
55°	320.4	322.1	322.1	323.8	322.1	320.4	322.1	320.4
57.5°	282.7	286.1	286.1	286.1	286.1	286.1	284.4	282.7
60°	250.1	251.8	251.8	253.5	253.5	253.5	251.8	251.8
62.5°	217.6	221.0	222.7	222.7	224.4	222.7	222.7	222.7
65°	191.9	195.3	197.0	195.3	197.0	197.0	195.3	195.3
67.5°	161.0	164.5	164.5	164.5	164.5	166.2	164.5	164.5
70°	130.2	133.6	131.9	133.6	133.6	133.6	133.6	133.6
72.5°	99.4	101.1	102.8	102.8	104.5	102.8	102.8	102.8
75°	72.0	75.4	75.4	75.4	75.4	77.1	77.1	77.1
77.5°	51.4	53.1	53.1	54.8	54.8	54.8	54.8	56.5
80°	36.0	36.0	37.7	37.7	39.4	39.4	39.4	39.4
82.5°	24.0	25.7	25.7	25.7	25.7	25.7	25.7	25.7
85°	13.7	15.4	15.4	15.4	15.4	17.1	17.1	17.1
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	6.9	6.9
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)