

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: P252688

Luminaire Tested: **LD6B30D010 EU6B30508030 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252688
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 EU6B30508030 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2759.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

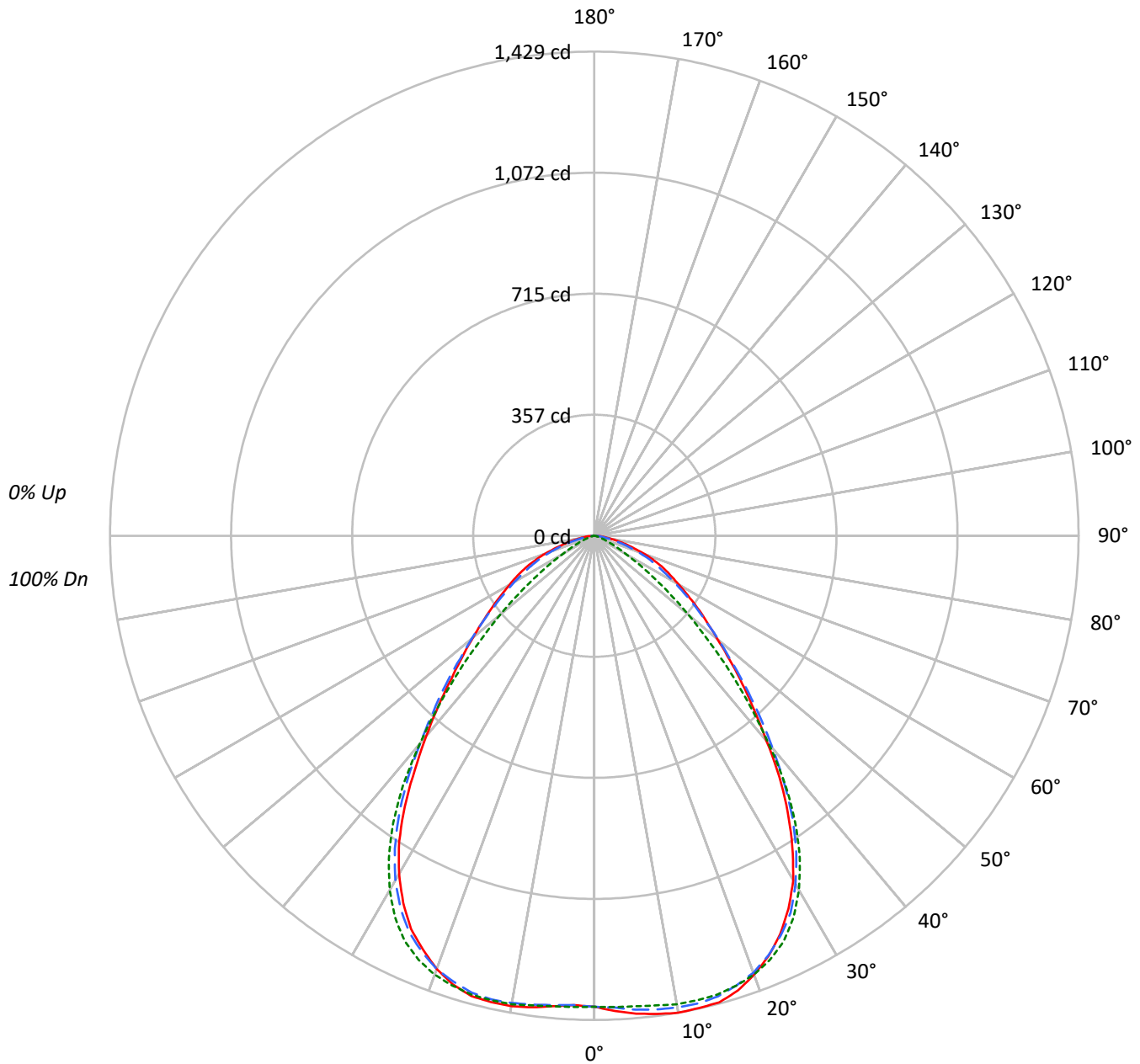
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252688

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252688

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1H

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	50	30	10
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	109	105	102	99	101	98	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68		
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61		
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54		
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48		
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44		
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	90684	90684	90684
5°	92707	91293	91293
10°	94694	92998	93388
15°	96274	94680	94951
20°	95685	95685	94463
25°	93408	95107	92134
30°	88426	90942	86792
35°	79238	82368	77669
40°	67315	68150	65637
45°	56964	52065	54962
50°	48089	36721	47490
55°	42267	23704	41824
60°	37461	14105	37709
65°	34595	8506	34595
70°	30005	4883	29261
75°	23795	2974	22308
80°	17733	2217	16982
85°	16169	1497	14746



TEST NUMBER: P252688

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	4.9
10°-20°	396.1	14.4
20°-30°	595.7	21.6
30°-40°	626.3	22.7
40°-50°	467.9	17.0
50°-60°	291.3	10.6
60°-70°	165.6	6.0
70°-80°	68.2	2.5
80°-90°	14.1	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°	1125.6	40.8
0°-40°	1751.9	63.5
0°-60°	2511.0	91.0
0°-90°	2759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1390	1390	1390	1390	1390	
5°	1416	1404	1394	1390	1394	135
15°	1425	1408	1402	1396	1406	401
25°	1298	1302	1321	1292	1280	594
35°	995	1020	1034	1005	975	617
45°	617	631	564	619	596	478
55°	372	364	208	358	368	334
65°	224	200	55	200	224	221
75°	94	75	12	73	88	103
85°	22	14	2	12	20	24
90°	0	0	0	0	0	



TEST NUMBER: P252688

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0
2.5°	1403.8	1401.8	1403.8	1399.9	1397.9	1397.9	1399.9	1395.9	1394.0	1395.9	1394.0
5°	1415.6	1411.7	1413.6	1411.7	1407.7	1407.7	1409.7	1403.8	1403.8	1405.8	1403.8
7.5°	1423.5	1423.5	1423.5	1419.5	1417.6	1415.6	1419.5	1413.6	1411.7	1411.7	1409.7
10°	1429.4	1427.4	1429.4	1425.4	1421.5	1419.5	1423.5	1419.5	1415.6	1419.5	1413.6
12.5°	1427.4	1427.4	1427.4	1425.4	1421.5	1419.5	1423.5	1417.6	1415.6	1417.6	1413.6
15°	1425.4	1419.5	1421.5	1419.5	1413.6	1413.6	1415.6	1409.7	1405.8	1411.7	1407.7
17.5°	1407.7	1403.8	1405.8	1401.8	1397.9	1395.9	1397.9	1395.9	1392.0	1395.9	1392.0
20°	1378.2	1378.2	1380.2	1376.3	1372.3	1370.4	1374.3	1370.4	1366.4	1372.3	1372.3
22.5°	1342.9	1342.9	1342.9	1340.9	1338.9	1338.9	1338.9	1337.0	1335.0	1338.9	1340.9
25°	1297.6	1295.7	1297.6	1299.6	1297.6	1295.7	1297.6	1297.6	1293.7	1301.6	1301.6
27.5°	1240.6	1240.6	1244.6	1242.6	1242.6	1240.6	1244.6	1244.6	1242.6	1248.5	1254.4
30°	1173.8	1169.8	1173.8	1173.8	1175.7	1175.7	1177.7	1177.7	1177.7	1183.6	1187.5
32.5°	1087.3	1089.2	1095.1	1093.2	1091.2	1097.1	1097.1	1101.0	1103.0	1106.9	1108.9
35°	994.9	996.8	996.8	998.8	1002.7	998.8	1008.6	1006.7	1008.6	1016.5	1020.4
37.5°	896.5	890.7	900.5	896.5	898.5	898.5	902.4	904.4	910.3	920.1	920.1
40°	790.4	792.3	796.3	798.2	800.2	800.2	800.2	806.1	808.1	819.9	817.9
42.5°	698.0	698.0	701.9	703.9	703.9	703.9	703.9	709.8	713.7	717.6	721.6
45°	617.4	611.5	615.4	615.4	619.3	617.4	621.3	625.2	627.2	633.1	631.1
47.5°	540.7	538.7	540.7	542.6	540.7	542.6	544.6	546.6	548.5	548.5	548.5
50°	473.8	473.8	475.8	477.8	477.8	477.8	477.8	479.7	479.7	483.7	479.7
52.5°	418.8	420.7	420.7	418.8	420.7	420.7	422.7	422.7	420.7	420.7	414.9
55°	371.6	369.6	371.6	369.6	371.6	371.6	369.6	369.6	367.7	365.7	363.7
57.5°	326.4	326.4	326.4	326.4	324.4	326.4	324.4	322.4	322.4	318.5	312.6
60°	287.1	287.1	287.1	287.1	287.1	285.1	287.1	285.1	281.2	277.2	269.4
62.5°	253.6	251.7	253.6	251.7	251.7	249.7	249.7	247.7	243.8	239.9	232.0
65°	224.1	226.1	224.1	224.1	222.2	220.2	220.2	218.2	212.3	208.4	200.5
67.5°	192.7	190.7	190.7	190.7	188.7	188.7	188.7	184.8	180.9	175.0	167.1
70°	157.3	157.3	157.3	155.3	155.3	153.4	153.4	151.4	147.5	143.5	133.7
72.5°	123.9	123.9	123.9	119.9	121.9	119.9	119.9	116.0	114.0	108.1	102.2
75°	94.4	94.4	92.4	92.4	90.4	88.5	88.5	86.5	84.5	80.6	74.7
77.5°	68.8	68.8	68.8	66.8	64.9	62.9	62.9	60.9	59.0	57.0	53.1
80°	47.2	47.2	47.2	47.2	45.2	43.3	43.3	41.3	41.3	39.3	35.4
82.5°	31.5	31.5	31.5	31.5	29.5	29.5	29.5	27.5	25.6	25.6	21.6
85°	21.6	21.6	19.7	19.7	19.7	19.7	17.7	17.7	15.7	13.8	13.8
87.5°	11.8	11.8	11.8	11.8	9.8	9.8	9.8	9.8	7.9	7.9	5.9
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: P252688

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0
2.5°	1399.9	1399.9	1397.9	1392.0	1394.0	1392.0	1394.0	1392.0	1386.1	1392.0	1386.1
5°	1407.7	1409.7	1405.8	1397.9	1399.9	1397.9	1397.9	1395.9	1390.0	1394.0	1390.0
7.5°	1415.6	1413.6	1411.7	1403.8	1405.8	1403.8	1403.8	1399.9	1394.0	1397.9	1392.0
10°	1419.5	1419.5	1415.6	1407.7	1407.7	1405.8	1407.7	1405.8	1397.9	1403.8	1399.9
12.5°	1419.5	1417.6	1417.6	1407.7	1409.7	1407.7	1409.7	1405.8	1399.9	1403.8	1401.8
15°	1413.6	1413.6	1411.7	1401.8	1403.8	1403.8	1405.8	1401.8	1395.9	1401.8	1397.9
17.5°	1401.8	1401.8	1399.9	1392.0	1395.9	1395.9	1397.9	1394.0	1388.1	1392.0	1392.0
20°	1378.2	1380.2	1380.2	1374.3	1378.2	1378.2	1380.2	1378.2	1376.3	1378.2	1374.3
22.5°	1350.7	1354.7	1354.7	1348.8	1352.7	1352.7	1358.6	1356.6	1352.7	1354.7	1352.7
25°	1309.4	1313.4	1317.3	1313.4	1317.3	1317.3	1323.2	1321.2	1317.3	1321.2	1315.3
27.5°	1262.2	1264.2	1268.1	1264.2	1270.1	1268.1	1274.0	1272.1	1266.2	1272.1	1270.1
30°	1195.4	1203.3	1209.2	1203.3	1209.2	1209.2	1213.1	1211.1	1209.2	1207.2	1207.2
32.5°	1120.7	1128.5	1128.5	1126.6	1130.5	1130.5	1132.5	1128.5	1126.6	1128.5	1130.5
35°	1028.3	1032.2	1036.1	1034.2	1036.1	1038.1	1036.1	1038.1	1032.2	1034.2	1034.2
37.5°	928.0	931.9	931.9	926.0	930.0	930.0	926.0	926.0	922.1	926.0	918.2
40°	821.8	817.9	819.9	815.9	812.0	812.0	810.0	802.2	798.2	800.2	802.2
42.5°	717.6	717.6	711.7	701.9	692.1	692.1	686.2	682.2	674.4	678.3	676.3
45°	629.2	619.3	611.5	595.7	589.8	585.9	576.1	566.2	562.3	564.3	562.3
47.5°	544.6	536.7	517.1	495.5	489.6	483.7	471.9	460.1	456.1	452.2	452.2
50°	473.8	460.1	438.4	414.9	405.0	395.2	379.5	367.7	359.8	361.8	361.8
52.5°	409.0	393.2	367.7	338.2	326.4	314.6	300.8	287.1	281.2	279.2	279.2
55°	351.9	334.2	308.7	275.3	265.4	251.7	234.0	218.2	210.4	208.4	212.3
57.5°	300.8	285.1	255.6	222.2	210.4	196.6	178.9	165.2	155.3	153.4	155.3
60°	259.5	237.9	212.3	180.9	165.2	153.4	133.7	121.9	112.1	108.1	110.1
62.5°	218.2	198.6	173.0	141.6	129.8	118.0	100.3	86.5	78.6	76.7	78.6
65°	186.8	167.1	143.5	116.0	104.2	92.4	76.7	62.9	57.0	55.1	57.0
67.5°	155.3	137.6	118.0	92.4	82.6	72.7	57.0	47.2	39.3	37.4	39.3
70°	125.8	110.1	90.4	72.7	62.9	55.1	43.3	33.4	27.5	25.6	27.5
72.5°	94.4	82.6	68.8	53.1	47.2	41.3	31.5	23.6	19.7	17.7	19.7
75°	68.8	59.0	49.2	37.4	33.4	29.5	21.6	15.7	13.8	11.8	13.8
77.5°	47.2	41.3	33.4	25.6	21.6	19.7	13.8	11.8	9.8	7.9	7.9
80°	31.5	27.5	21.6	17.7	15.7	13.8	9.8	7.9	5.9	5.9	5.9
82.5°	19.7	15.7	13.8	9.8	7.9	7.9	5.9	3.9	3.9	3.9	3.9
85°	11.8	9.8	7.9	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0
87.5°	5.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	0.0	0.0	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: P252688

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0
2.5°	1390.0	1386.1	1386.1	1388.1	1390.0	1392.0	1388.1	1386.1	1386.1	1392.0	1388.1
5°	1390.0	1388.1	1388.1	1388.1	1392.0	1394.0	1390.0	1388.1	1390.0	1395.9	1394.0
7.5°	1395.9	1392.0	1394.0	1394.0	1395.9	1399.9	1395.9	1394.0	1395.9	1401.8	1397.9
10°	1399.9	1395.9	1397.9	1395.9	1401.8	1403.8	1399.9	1397.9	1399.9	1407.7	1405.8
12.5°	1401.8	1399.9	1399.9	1397.9	1403.8	1405.8	1401.8	1399.9	1401.8	1407.7	1405.8
15°	1397.9	1395.9	1395.9	1395.9	1399.9	1403.8	1397.9	1395.9	1395.9	1401.8	1399.9
17.5°	1390.0	1386.1	1386.1	1386.1	1388.1	1390.0	1384.1	1382.2	1380.2	1386.1	1384.1
20°	1376.3	1372.3	1368.4	1368.4	1370.4	1370.4	1366.4	1360.6	1360.6	1362.5	1358.6
22.5°	1350.7	1348.8	1344.8	1342.9	1346.8	1344.8	1337.0	1331.1	1329.1	1331.1	1327.1
25°	1315.3	1311.4	1309.4	1307.5	1309.4	1307.5	1299.6	1291.7	1291.7	1291.7	1285.8
27.5°	1266.2	1262.2	1260.3	1260.3	1262.2	1258.3	1250.4	1242.6	1238.7	1238.7	1232.8
30°	1203.3	1203.3	1201.3	1199.3	1197.4	1197.4	1185.6	1177.7	1173.8	1175.7	1171.8
32.5°	1126.6	1124.6	1122.7	1116.8	1118.7	1116.8	1106.9	1101.0	1095.1	1091.2	1089.2
35°	1028.3	1028.3	1026.3	1026.3	1026.3	1024.3	1014.5	1008.6	1004.7	1002.7	996.8
37.5°	920.1	918.2	916.2	916.2	916.2	916.2	910.3	904.4	904.4	902.4	898.5
40°	798.2	800.2	802.2	800.2	806.1	812.0	804.1	800.2	798.2	804.1	796.3
42.5°	680.3	678.3	688.1	690.1	690.1	699.9	701.9	703.9	701.9	705.8	705.8
45°	566.2	564.3	574.1	578.0	587.9	599.7	605.6	615.4	619.3	623.3	619.3
47.5°	458.1	466.0	473.8	483.7	491.5	511.2	523.0	532.8	536.7	542.6	542.6
50°	367.7	375.5	389.3	397.2	407.0	430.6	450.2	464.0	471.9	477.8	475.8
52.5°	283.1	296.9	314.6	322.4	336.2	363.7	385.4	401.1	410.9	416.8	418.8
55°	218.2	230.0	247.7	259.5	273.3	302.8	330.3	348.0	357.8	365.7	369.6
57.5°	161.2	175.0	194.6	204.5	220.2	253.6	277.2	298.8	310.6	320.5	322.4
60°	118.0	131.7	149.4	161.2	177.0	210.4	237.9	257.6	271.3	279.2	283.1
62.5°	84.5	98.3	116.0	127.8	141.6	171.1	198.6	218.2	232.0	241.8	247.7
65°	60.9	74.7	92.4	102.2	114.0	141.6	167.1	186.8	200.5	212.3	216.3
67.5°	45.2	55.1	70.8	80.6	92.4	114.0	135.7	153.4	167.1	177.0	180.9
70°	33.4	41.3	55.1	60.9	68.8	88.5	106.2	121.9	133.7	141.6	145.5
72.5°	23.6	29.5	39.3	45.2	51.1	66.8	80.6	92.4	100.3	108.1	112.1
75°	15.7	19.7	27.5	31.5	35.4	47.2	57.0	66.8	72.7	78.6	80.6
77.5°	9.8	13.8	19.7	21.6	25.6	31.5	39.3	45.2	49.2	53.1	57.0
80°	5.9	7.9	11.8	13.8	15.7	21.6	25.6	29.5	33.4	37.4	39.3
82.5°	3.9	5.9	7.9	7.9	9.8	11.8	15.7	19.7	21.6	23.6	25.6
85°	2.0	2.0	3.9	3.9	5.9	5.9	7.9	9.8	11.8	13.8	15.7
87.5°	2.0	2.0	2.0	2.0	3.9	3.9	5.9	5.9	5.9	7.9	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



TEST NUMBER: P252688

CATALOG NUMBER: LD6B30D010 EU6B30508030 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0	1390.0
2.5°	1384.1	1390.0	1384.1	1388.1	1386.1	1386.1	1384.1	1386.1
5°	1390.0	1397.9	1390.0	1395.9	1392.0	1392.0	1392.0	1394.0
7.5°	1395.9	1403.8	1397.9	1403.8	1401.8	1399.9	1399.9	1403.8
10°	1401.8	1407.7	1403.8	1409.7	1407.7	1405.8	1405.8	1409.7
12.5°	1401.8	1409.7	1405.8	1411.7	1409.7	1407.7	1407.7	1409.7
15°	1395.9	1405.8	1399.9	1405.8	1403.8	1401.8	1401.8	1405.8
17.5°	1378.2	1386.1	1382.2	1386.1	1386.1	1384.1	1386.1	1388.1
20°	1354.7	1360.6	1356.6	1360.6	1360.6	1356.6	1358.6	1360.6
22.5°	1321.2	1327.1	1323.2	1327.1	1325.2	1323.2	1323.2	1321.2
25°	1279.9	1287.8	1281.9	1285.8	1281.9	1278.0	1278.0	1279.9
27.5°	1228.8	1234.7	1226.9	1230.8	1226.9	1222.9	1222.9	1221.0
30°	1162.0	1163.9	1158.0	1162.0	1158.0	1156.1	1152.1	1152.1
32.5°	1081.4	1083.3	1077.4	1077.4	1073.5	1073.5	1065.6	1071.5
35°	987.0	989.0	987.0	985.0	979.1	977.2	975.2	975.2
37.5°	888.7	888.7	882.8	880.8	876.9	873.0	874.9	869.0
40°	788.4	786.4	780.5	782.5	780.5	774.6	772.7	770.7
42.5°	694.0	694.0	688.1	690.1	686.2	684.2	678.3	680.3
45°	611.5	611.5	605.6	605.6	603.6	597.7	599.7	595.7
47.5°	536.7	536.7	534.8	534.8	528.9	526.9	526.9	526.9
50°	471.9	471.9	471.9	471.9	469.9	467.9	466.0	467.9
52.5°	416.8	420.7	418.8	418.8	416.8	414.9	412.9	412.9
55°	367.7	369.6	369.6	371.6	369.6	367.7	369.6	367.7
57.5°	324.4	328.3	328.3	328.3	328.3	328.3	326.4	324.4
60°	287.1	289.0	289.0	291.0	291.0	291.0	289.0	289.0
62.5°	249.7	253.6	255.6	255.6	257.6	255.6	255.6	255.6
65°	220.2	224.1	226.1	224.1	226.1	226.1	224.1	224.1
67.5°	184.8	188.7	188.7	188.7	188.7	190.7	188.7	188.7
70°	149.4	153.4	151.4	153.4	153.4	153.4	153.4	153.4
72.5°	114.0	116.0	118.0	118.0	119.9	118.0	118.0	118.0
75°	82.6	86.5	86.5	86.5	86.5	88.5	88.5	88.5
77.5°	59.0	60.9	60.9	62.9	62.9	62.9	62.9	64.9
80°	41.3	41.3	43.3	43.3	45.2	45.2	45.2	45.2
82.5°	27.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
85°	15.7	17.7	17.7	17.7	17.7	19.7	19.7	19.7
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)