

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: P252479

Luminaire Tested: **LD6B30D010 EU6B30508027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30508027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2400.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

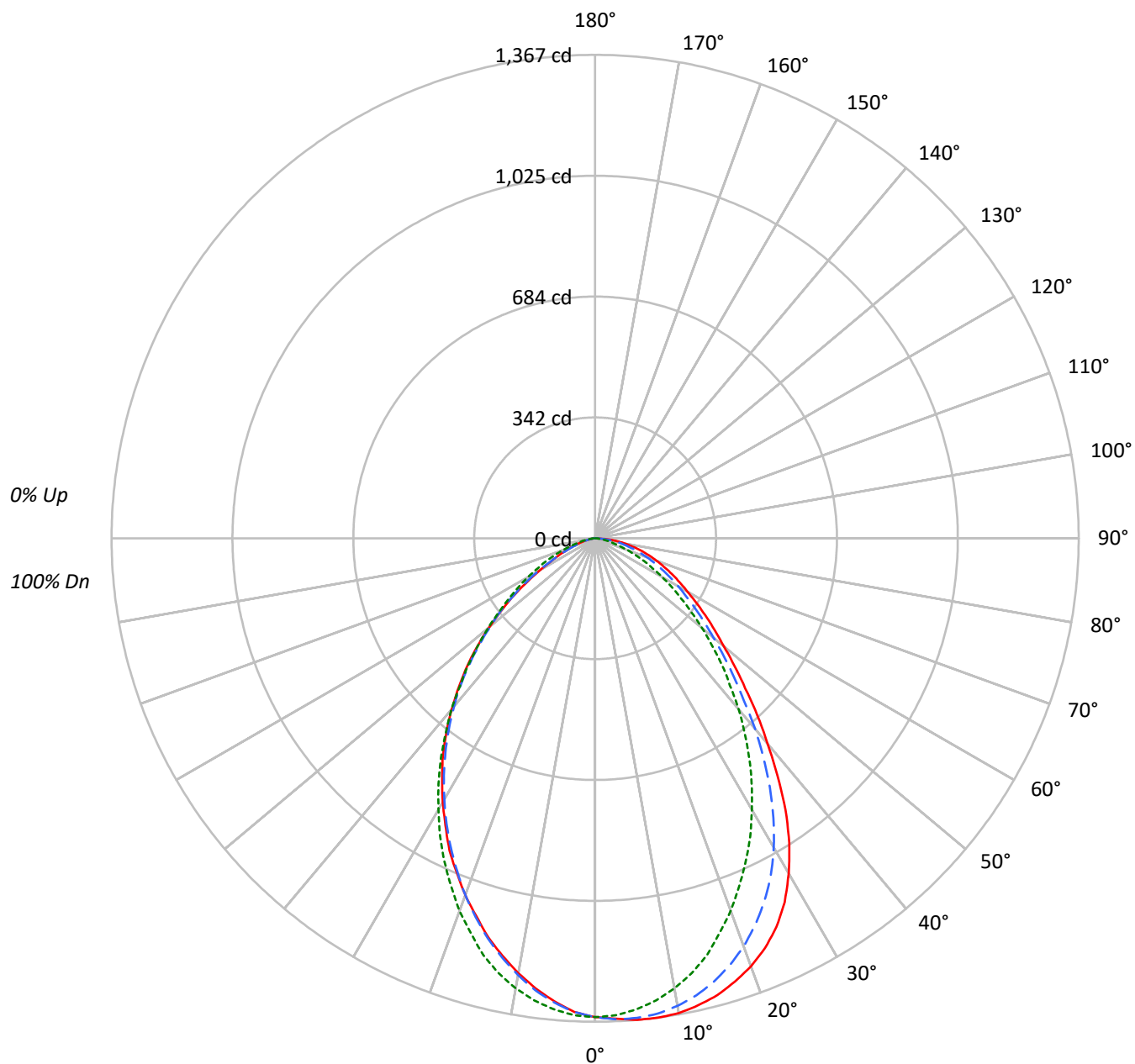
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252479

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252479

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1H

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	103	100	108	105	101	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	93	84	78	73	81	76	71		79	74	70		76
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	37		48	42	37		47
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	88336	88336	88336
5°	89531	87560	86086
10°	90321	85585	82716
15°	90304	82428	78876
20°	89430	77814	74551
25°	87311	72554	70121
30°	82445	66723	64885
35°	74738	60506	59757
40°	64538	53808	53654
45°	55349	46843	47193
50°	48099	40081	39513
55°	43211	33793	31655
60°	39262	28458	23304
65°	36864	23511	17120
70°	35155	18293	12551
75°	33651	13284	8520
80°	31785	9167	5636
85°	28146	5614	2844



TEST NUMBER: P252479

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	5.3
10°-20°	346.9	14.5
20°-30°	481.6	20.1
30°-40°	498.8	20.8
40°-50°	409.9	17.1
50°-60°	281.7	11.7
60°-70°	161.9	6.7
70°-80°	74.4	3.1
80°-90°	18.1	0.8
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°	955.1	39.8
0°-40°	1453.9	60.6
0°-60°	2145.5	89.4
0°-90°	2400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1354	1354	1354	1354	1354	
5°	1367	1362	1337	1318	1314	130
15°	1337	1298	1220	1172	1168	377
25°	1213	1132	1008	965	974	555
35°	938	861	760	737	750	582
45°	600	555	508	502	512	467
55°	380	344	297	280	278	342
65°	239	209	152	107	111	238
75°	134	105	53	34	34	141
85°	38	26	8	4	4	42
90°	0	0	0	0	0	



TEST NUMBER: P252479

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1359.6	1370.9	1363.4	1361.5	1365.2	1365.2	1365.2	1359.6	1363.4	1357.7	1361.5
5°	1367.1	1376.5	1369.0	1365.2	1369.0	1370.9	1365.2	1361.5	1367.1	1359.6	1361.5
7.5°	1367.1	1376.5	1369.0	1367.1	1369.0	1369.0	1367.1	1359.6	1363.4	1355.8	1355.8
10°	1363.4	1370.9	1363.4	1359.6	1361.5	1359.6	1359.6	1350.2	1352.1	1342.7	1342.7
12.5°	1352.1	1361.5	1352.1	1348.3	1348.3	1348.3	1342.7	1335.2	1337.0	1325.7	1323.9
15°	1337.0	1344.6	1335.2	1331.4	1331.4	1329.5	1325.7	1314.5	1314.5	1303.2	1297.5
17.5°	1314.5	1322.0	1314.5	1308.8	1306.9	1303.2	1299.4	1288.1	1284.4	1271.2	1265.6
20°	1288.1	1293.8	1286.3	1280.6	1276.9	1273.1	1265.6	1254.3	1250.5	1237.4	1228.0
22.5°	1254.3	1261.8	1250.5	1244.9	1241.1	1235.5	1228.0	1216.7	1211.0	1194.1	1182.8
25°	1212.9	1216.7	1207.3	1201.6	1194.1	1190.4	1184.7	1169.7	1164.0	1145.2	1132.1
27.5°	1160.3	1164.0	1152.7	1149.0	1139.6	1135.8	1128.3	1115.1	1107.6	1088.8	1075.6
30°	1094.4	1098.2	1090.7	1085.0	1077.5	1070.0	1064.4	1051.2	1039.9	1021.1	1009.8
32.5°	1021.1	1026.7	1019.2	1011.7	998.5	1000.4	991.0	977.9	968.5	951.5	938.4
35°	938.4	942.1	932.7	930.8	923.3	915.8	906.4	897.0	891.4	872.5	861.3
37.5°	846.2	855.6	846.2	838.7	834.9	829.3	823.7	810.5	806.7	795.4	780.4
40°	757.8	763.5	757.8	750.3	744.7	744.7	737.2	729.6	720.2	708.9	703.3
42.5°	678.9	675.1	673.2	669.5	661.9	660.1	658.2	648.8	643.1	631.8	622.4
45°	599.9	601.8	598.0	596.1	590.5	586.7	583.0	575.4	573.6	562.3	554.7
47.5°	534.1	532.2	528.4	528.4	524.7	520.9	517.1	511.5	509.6	500.2	492.7
50°	473.9	475.8	473.9	472.0	466.4	464.5	460.7	457.0	453.2	443.8	436.3
52.5°	425.0	423.1	421.2	421.2	415.6	413.7	409.9	406.2	402.4	393.0	387.4
55°	379.9	379.9	378.0	376.1	370.5	368.6	366.7	362.9	357.3	349.8	344.1
57.5°	338.5	338.5	336.6	334.7	331.0	331.0	327.2	323.4	319.7	312.2	304.6
60°	300.9	302.8	300.9	299.0	295.2	295.2	293.4	287.7	285.8	276.4	270.8
62.5°	268.9	268.9	268.9	267.0	265.1	261.4	261.4	255.7	252.0	246.3	238.8
65°	238.8	238.8	238.8	236.9	233.2	231.3	229.4	225.7	221.9	216.3	208.7
67.5°	210.6	210.6	210.6	208.7	205.0	203.1	201.2	199.3	193.7	188.0	180.5
70°	184.3	184.3	182.4	180.5	178.6	176.8	174.9	171.1	167.4	159.8	154.2
72.5°	158.0	158.0	158.0	154.2	152.3	152.3	148.6	146.7	142.9	135.4	129.8
75°	133.5	131.6	131.6	129.8	127.9	126.0	124.1	122.2	116.6	112.8	105.3
77.5°	109.1	109.1	107.2	105.3	105.3	103.4	101.5	97.8	95.9	90.3	84.6
80°	84.6	84.6	84.6	84.6	82.7	80.9	80.9	77.1	75.2	69.6	65.8
82.5°	63.9	62.1	62.1	62.1	60.2	58.3	58.3	56.4	54.5	50.8	47.0
85°	37.6	35.7	35.7	35.7	33.8	33.8	32.0	32.0	30.1	26.3	26.3
87.5°	11.3	11.3	13.2	13.2	11.3	11.3	11.3	11.3	11.3	9.4	9.4
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: P252479

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1357.7	1363.4	1355.8	1354.0	1361.5	1357.7	1355.8	1352.1	1354.0	1350.2	1344.6
5°	1355.8	1363.4	1354.0	1348.3	1357.7	1352.1	1348.3	1344.6	1344.6	1337.0	1333.3
7.5°	1350.2	1354.0	1344.6	1338.9	1344.6	1338.9	1335.2	1329.5	1327.6	1318.2	1312.6
10°	1335.2	1338.9	1327.6	1320.1	1325.7	1318.2	1312.6	1306.9	1303.2	1291.9	1284.4
12.5°	1314.5	1316.3	1303.2	1293.8	1297.5	1291.9	1282.5	1275.0	1271.2	1259.9	1250.5
15°	1286.3	1288.1	1273.1	1259.9	1263.7	1256.2	1244.9	1237.4	1231.7	1220.4	1207.3
17.5°	1252.4	1250.5	1233.6	1220.4	1222.3	1212.9	1201.6	1190.4	1182.8	1169.7	1160.3
20°	1214.8	1209.2	1190.4	1175.3	1177.2	1165.9	1152.7	1141.5	1132.1	1120.8	1107.6
22.5°	1167.8	1160.3	1143.3	1124.5	1126.4	1117.0	1098.2	1088.8	1079.4	1064.4	1053.1
25°	1117.0	1105.7	1088.8	1070.0	1070.0	1058.7	1043.7	1032.4	1023.0	1007.9	994.8
27.5°	1056.8	1051.2	1028.6	1013.6	1011.7	1000.4	987.3	974.1	962.8	949.6	936.5
30°	991.0	981.6	964.7	947.8	944.0	934.6	921.4	906.4	898.9	885.7	874.4
32.5°	921.4	912.0	893.2	876.3	874.4	866.9	855.6	840.6	833.1	823.7	816.1
35°	842.5	838.7	819.9	806.7	806.7	799.2	787.9	774.8	769.1	759.7	750.3
37.5°	767.2	761.6	744.7	733.4	733.4	724.0	712.7	707.1	701.4	693.9	688.3
40°	688.3	684.5	671.3	660.1	661.9	654.4	646.9	639.4	635.6	631.8	626.2
42.5°	614.9	611.2	601.8	592.4	592.4	586.7	579.2	573.6	569.8	564.1	562.3
45°	549.1	543.5	535.9	526.5	526.5	520.9	517.1	513.4	511.5	507.7	502.1
47.5°	485.2	481.4	473.9	464.5	464.5	464.5	457.0	451.3	451.3	447.6	445.7
50°	430.6	425.0	419.4	411.8	411.8	408.1	402.4	396.8	396.8	394.9	391.1
52.5°	379.9	376.1	368.6	361.1	361.1	357.3	351.7	349.8	347.9	342.2	340.4
55°	336.6	332.8	327.2	317.8	315.9	314.0	308.4	304.6	302.8	297.1	297.1
57.5°	297.1	293.4	284.0	278.3	276.4	272.7	267.0	263.3	261.4	257.6	253.9
60°	263.3	257.6	250.1	242.6	240.7	236.9	231.3	227.5	225.7	218.1	214.4
62.5°	231.3	225.7	218.1	210.6	208.7	205.0	197.5	193.7	189.9	182.4	178.6
65°	201.2	195.6	188.0	180.5	176.8	174.9	167.4	161.7	158.0	152.3	144.8
67.5°	173.0	167.4	159.8	150.4	150.4	144.8	139.2	133.5	127.9	122.2	116.6
70°	146.7	141.0	133.5	126.0	124.1	120.4	114.7	107.2	103.4	95.9	90.3
72.5°	122.2	116.6	109.1	101.5	99.7	95.9	90.3	82.7	77.1	71.5	65.8
75°	99.7	94.0	86.5	80.9	79.0	75.2	69.6	62.1	56.4	52.7	47.0
77.5°	79.0	73.3	67.7	62.1	60.2	56.4	50.8	47.0	41.4	37.6	32.0
80°	60.2	56.4	50.8	47.0	45.1	41.4	37.6	32.0	28.2	24.4	22.6
82.5°	43.3	39.5	35.7	30.1	30.1	26.3	24.4	20.7	16.9	15.0	13.2
85°	24.4	20.7	18.8	16.9	15.0	15.0	13.2	11.3	9.4	7.5	7.5
87.5°	7.5	7.5	5.6	5.6	5.6	5.6	3.8	3.8	3.8	3.8	3.8
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: P252479

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1344.6	1346.4	1342.7	1346.4	1342.7	1344.6	1340.8	1344.6	1340.8	1344.6	1337.0
5°	1331.4	1331.4	1325.7	1329.5	1325.7	1327.6	1320.1	1322.0	1318.2	1322.0	1314.5
7.5°	1308.8	1310.7	1301.3	1305.1	1299.4	1299.4	1293.8	1295.7	1290.0	1291.9	1286.3
10°	1282.5	1280.6	1271.2	1275.0	1267.5	1267.5	1261.8	1261.8	1254.3	1256.2	1248.6
12.5°	1244.9	1243.0	1231.7	1235.5	1228.0	1228.0	1222.3	1222.3	1214.8	1218.6	1211.0
15°	1201.6	1199.8	1188.5	1190.4	1182.8	1182.8	1175.3	1177.2	1171.5	1175.3	1167.8
17.5°	1152.7	1150.9	1139.6	1141.5	1132.1	1133.9	1128.3	1126.4	1122.7	1124.5	1118.9
20°	1102.0	1098.2	1086.9	1088.8	1085.0	1079.4	1075.6	1077.5	1073.8	1077.5	1071.9
22.5°	1049.3	1041.8	1032.4	1032.4	1028.6	1028.6	1023.0	1026.7	1019.2	1024.9	1021.1
25°	989.1	983.5	976.0	979.7	972.2	972.2	966.6	968.5	964.7	968.5	964.7
27.5°	930.8	927.1	915.8	919.6	913.9	915.8	910.2	912.0	910.2	913.9	910.2
30°	868.8	866.9	859.4	859.4	857.5	855.6	853.7	853.7	851.9	857.5	853.7
32.5°	810.5	804.9	797.3	803.0	793.6	799.2	795.4	799.2	795.4	799.2	797.3
35°	750.3	748.4	739.0	740.9	739.0	739.0	737.2	737.2	737.2	742.8	742.8
37.5°	686.4	684.5	678.9	680.7	677.0	675.1	675.1	678.9	678.9	682.6	682.6
40°	624.3	626.2	620.6	620.6	618.7	618.7	618.7	622.4	620.6	624.3	622.4
42.5°	562.3	562.3	556.6	558.5	556.6	558.5	558.5	562.3	562.3	564.1	562.3
45°	504.0	504.0	502.1	504.0	500.2	502.1	500.2	504.0	502.1	504.0	504.0
47.5°	445.7	445.7	445.7	443.8	443.8	443.8	443.8	443.8	441.9	445.7	443.8
50°	391.1	393.0	391.1	391.1	389.3	391.1	389.3	389.3	385.5	387.4	387.4
52.5°	342.2	342.2	338.5	338.5	338.5	336.6	336.6	336.6	334.7	334.7	331.0
55°	295.2	295.2	291.5	291.5	289.6	287.7	285.8	285.8	280.2	280.2	274.6
57.5°	252.0	250.1	244.5	244.5	240.7	238.8	236.9	235.1	231.3	227.5	225.7
60°	212.5	208.7	205.0	203.1	199.3	195.6	191.8	188.0	184.3	182.4	180.5
62.5°	174.9	169.2	165.5	163.6	159.8	154.2	150.4	146.7	142.9	141.0	137.3
65°	141.0	135.4	129.8	127.9	124.1	120.4	114.7	110.9	107.2	105.3	105.3
67.5°	110.9	105.3	97.8	97.8	94.0	90.3	86.5	82.7	80.9	82.7	82.7
70°	82.7	79.0	73.3	71.5	67.7	63.9	62.1	62.1	62.1	63.9	62.1
72.5°	62.1	56.4	52.7	50.8	48.9	47.0	47.0	47.0	45.1	47.0	47.0
75°	43.3	39.5	35.7	35.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8
77.5°	30.1	26.3	24.4	24.4	24.4	22.6	22.6	22.6	22.6	22.6	22.6
80°	18.8	18.8	16.9	16.9	15.0	15.0	15.0	15.0	15.0	15.0	15.0
82.5°	11.3	11.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
85°	5.6	5.6	5.6	5.6	5.6	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8
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: P252479

CATALOG NUMBER: LD6B30D010 EU6B30508027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1337.0	1342.7	1335.2	1340.8	1338.9	1337.0	1333.3	1340.8
5°	1314.5	1316.3	1308.8	1316.3	1314.5	1310.7	1306.9	1314.5
7.5°	1282.5	1288.1	1278.7	1286.3	1284.4	1280.6	1276.9	1284.4
10°	1246.8	1252.4	1244.9	1250.5	1250.5	1246.8	1241.1	1248.6
12.5°	1207.3	1211.0	1203.5	1211.0	1209.2	1205.4	1203.5	1209.2
15°	1164.0	1169.7	1162.1	1167.8	1165.9	1164.0	1162.1	1167.8
17.5°	1117.0	1122.7	1117.0	1122.7	1122.7	1117.0	1115.1	1118.9
20°	1070.0	1073.8	1068.1	1073.8	1071.9	1071.9	1068.1	1073.8
22.5°	1017.3	1023.0	1019.2	1023.0	1021.1	1021.1	1019.2	1023.0
25°	964.7	970.3	964.7	970.3	968.5	968.5	964.7	974.1
27.5°	912.0	915.8	910.2	917.7	915.8	912.0	913.9	915.8
30°	855.6	859.4	855.6	861.3	861.3	861.3	857.5	861.3
32.5°	799.2	804.9	799.2	804.9	803.0	803.0	801.1	804.9
35°	742.8	744.7	740.9	746.6	746.6	748.4	744.7	750.3
37.5°	684.5	686.4	684.5	686.4	690.1	684.5	688.3	690.1
40°	624.3	628.1	626.2	628.1	628.1	630.0	628.1	630.0
42.5°	564.1	567.9	564.1	569.8	567.9	567.9	569.8	569.8
45°	502.1	507.7	504.0	507.7	509.6	507.7	507.7	511.5
47.5°	443.8	447.6	445.7	447.6	447.6	447.6	447.6	451.3
50°	385.5	387.4	387.4	389.3	389.3	391.1	387.4	389.3
52.5°	327.2	331.0	331.0	331.0	329.1	331.0	331.0	331.0
55°	274.6	276.4	272.7	276.4	276.4	274.6	274.6	278.3
57.5°	223.8	223.8	223.8	223.8	223.8	221.9	223.8	223.8
60°	176.8	178.6	176.8	176.8	176.8	176.8	174.9	178.6
62.5°	137.3	137.3	135.4	137.3	137.3	137.3	139.2	139.2
65°	107.2	109.1	107.2	109.1	109.1	109.1	109.1	110.9
67.5°	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
70°	63.9	63.9	63.9	65.8	63.9	63.9	63.9	65.8
72.5°	47.0	47.0	47.0	47.0	47.0	47.0	48.9	48.9
75°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
77.5°	22.6	22.6	22.6	24.4	22.6	24.4	22.6	22.6
80°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
82.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)