

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: P252364

Luminaire Tested: **LD6B20D010 EU6B10208035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252364
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: LD6B20D010 EU6B10208035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1889.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

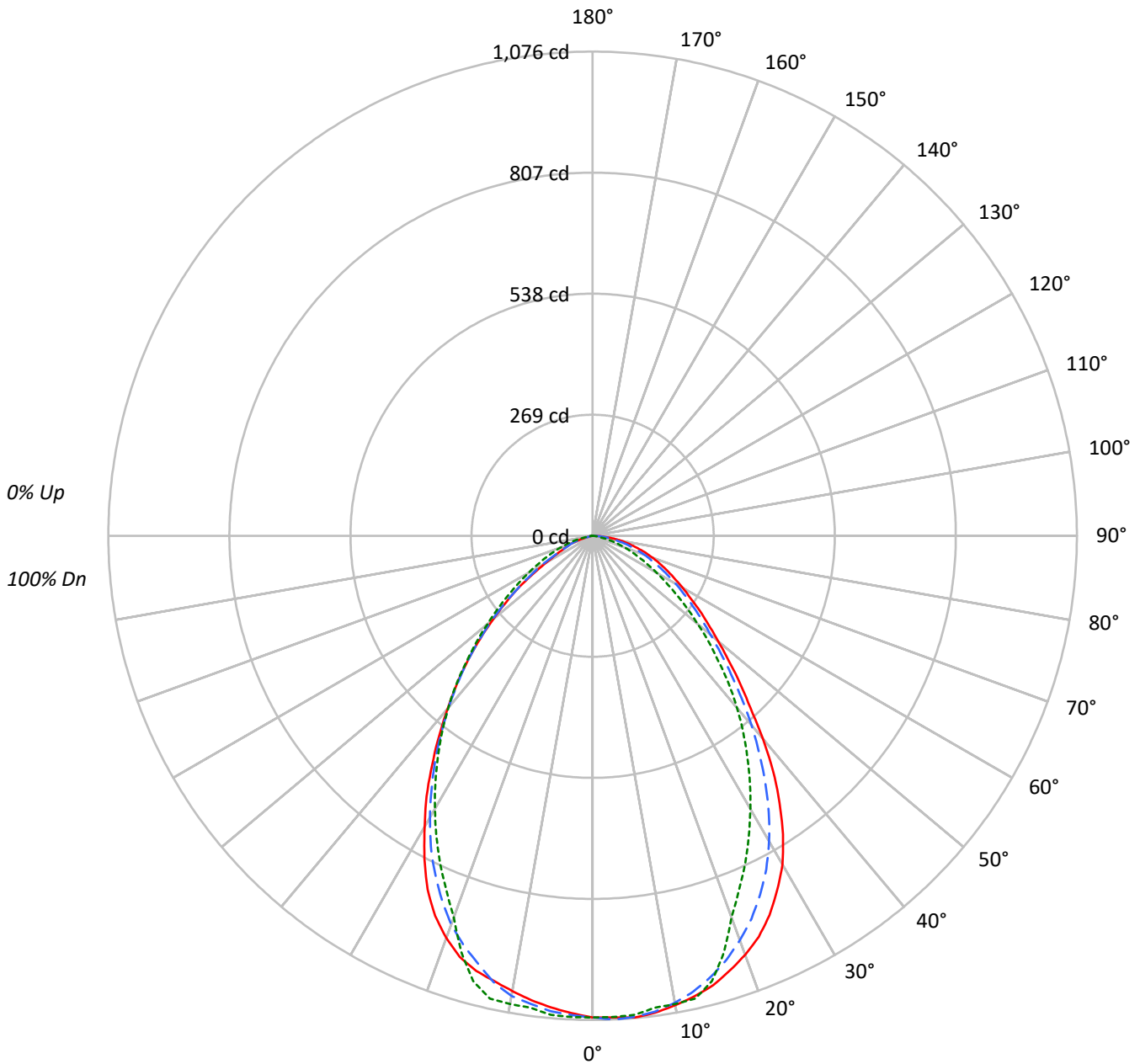
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252364

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBLWW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P252364

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBLWW1LI

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°	69827	69827	69827
5°	70369	70002	68915
10°	70169	69983	68049
15°	69852	69197	67596
20°	68810	62631	66012
25°	66939	57732	62440
30°	63559	52779	56229
35°	57678	47715	49483
40°	50077	42498	42617
45°	42709	36555	36168
50°	36965	30896	29201
55°	33043	25774	22612
60°	30102	21399	15240
65°	28111	17598	11377
70°	26781	14325	9538
75°	25232	10158	3151
80°	24008	5222	1052
85°	19762	3144	0



TEST NUMBER: P252364

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBLWW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	5.4
10°-20°	282.7	15.0
20°-30°	390.2	20.7
30°-40°	397.1	21.0
40°-50°	319.1	16.9
50°-60°	212.2	11.2
60°-70°	120.9	6.4
70°-80°	54.3	2.9
80°-90°	11.4	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°	774.0	41.0
0°-40°	1171.0	62.0
0°-60°	1702.3	90.1
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1074	1073	1069	1061	1052	102
15°	1034	1015	1024	984	1001	291
25°	930	880	802	828	867	426
35°	724	669	599	610	621	450
45°	463	435	396	392	392	359
55°	290	271	227	202	199	261
65°	182	163	114	74	74	181
75°	100	83	40	17	12	107
85°	26	18	4	1	0	31
90°	0	0	0	0	0	



TEST NUMBER: P252364

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBLWW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1071.7	1077.3	1075.9	1074.5	1075.9	1074.5	1071.7	1071.7	1068.9	1068.9	1075.9
5°	1074.5	1077.3	1075.9	1074.5	1074.5	1075.9	1070.3	1070.3	1067.5	1066.2	1073.1
7.5°	1068.9	1073.1	1070.3	1070.3	1068.9	1070.3	1064.8	1064.8	1060.6	1059.2	1066.2
10°	1059.2	1064.8	1062.0	1062.0	1062.0	1059.2	1056.4	1055.0	1050.9	1049.5	1053.6
12.5°	1048.1	1052.3	1050.9	1048.1	1048.1	1048.1	1042.5	1041.1	1035.6	1032.8	1037.0
15°	1034.2	1037.0	1035.6	1034.2	1031.4	1031.4	1025.8	1023.1	1017.5	1011.9	1014.7
17.5°	1013.3	1017.5	1014.7	1013.3	1009.2	1009.2	1003.6	1000.8	992.5	986.9	988.3
20°	991.1	992.5	991.1	988.3	984.1	982.8	977.2	971.6	964.7	957.7	956.3
22.5°	964.7	966.1	961.9	959.1	955.0	953.6	946.6	942.4	931.3	923.0	921.6
25°	929.9	931.3	931.3	924.4	921.6	918.8	911.9	904.9	895.2	884.1	879.9
27.5°	888.2	892.4	889.6	882.7	877.1	875.7	868.8	863.2	850.7	841.0	835.4
30°	843.7	842.4	841.0	836.8	828.5	827.1	820.1	813.2	803.4	790.9	784.0
32.5°	786.8	786.8	785.4	781.2	772.9	770.1	764.5	756.2	745.1	735.3	728.4
35°	724.2	725.6	724.2	715.9	710.3	707.5	704.7	695.0	685.3	674.2	668.6
37.5°	658.9	654.7	656.1	649.1	642.2	645.0	636.6	632.5	621.3	613.0	607.4
40°	588.0	590.8	585.2	582.4	578.3	574.1	574.1	567.1	561.6	551.8	549.1
42.5°	518.5	522.7	521.3	518.5	512.9	514.3	507.4	504.6	497.6	493.5	489.3
45°	462.9	462.9	462.9	460.1	458.7	455.9	451.8	447.6	443.4	437.9	435.1
47.5°	408.7	408.7	410.1	407.3	404.5	403.1	400.3	400.3	393.4	387.8	385.0
50°	364.2	364.2	364.2	361.4	358.6	358.6	355.8	353.1	348.9	344.7	341.9
52.5°	323.9	323.9	323.9	321.1	319.7	318.3	316.9	315.5	310.0	307.2	304.4
55°	290.5	289.1	289.1	287.7	285.0	285.0	283.6	280.8	276.6	272.4	271.1
57.5°	257.2	258.5	257.2	257.2	254.4	254.4	251.6	250.2	246.0	243.3	240.5
60°	230.7	230.7	230.7	229.4	226.6	228.0	225.2	223.8	219.6	215.5	212.7
62.5°	204.3	205.7	205.7	204.3	201.6	201.6	200.2	198.8	194.6	190.4	186.3
65°	182.1	182.1	182.1	180.7	179.3	179.3	177.9	176.5	172.4	166.8	162.6
67.5°	161.2	159.9	159.9	159.9	158.5	157.1	155.7	154.3	150.1	146.0	140.4
70°	140.4	140.4	140.4	139.0	136.2	137.6	136.2	134.8	130.7	126.5	122.3
72.5°	120.9	120.9	119.5	118.2	118.2	116.8	116.8	115.4	111.2	105.6	101.5
75°	100.1	100.1	100.1	100.1	97.3	98.7	95.9	94.5	91.7	87.6	83.4
77.5°	82.0	82.0	82.0	80.6	79.2	79.2	77.8	76.5	72.3	69.5	63.9
80°	63.9	63.9	63.9	63.9	62.6	61.2	59.8	58.4	55.6	51.4	47.3
82.5°	47.3	47.3	45.9	45.9	45.9	44.5	43.1	41.7	38.9	36.1	33.4
85°	26.4	27.8	27.8	25.0	26.4	25.0	25.0	22.2	22.2	19.5	18.1
87.5°	9.7	8.3	8.3	8.3	8.3	8.3	8.3	7.0	7.0	7.0	5.6
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: P252364

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1070.3	1068.9	1074.5	1074.5	1066.2	1070.3	1071.7	1068.9	1068.9	1070.3	1066.2
5°	1067.5	1064.8	1070.3	1071.7	1063.4	1067.5	1068.9	1066.2	1067.5	1068.9	1063.4
7.5°	1057.8	1057.8	1062.0	1063.4	1055.0	1059.2	1059.2	1056.4	1057.8	1057.8	1053.6
10°	1048.1	1043.9	1048.1	1048.1	1041.1	1042.5	1045.3	1043.9	1049.5	1056.4	1056.4
12.5°	1030.0	1025.8	1032.8	1032.8	1028.6	1034.2	1041.1	1045.3	1050.9	1053.6	1045.3
15°	1007.8	1009.2	1021.7	1031.4	1027.2	1035.6	1042.5	1039.7	1032.8	1024.5	1011.9
17.5°	978.6	974.4	985.5	991.1	985.5	988.3	993.9	988.3	977.2	970.2	953.6
20°	945.2	934.1	934.1	931.3	921.6	921.6	920.2	910.5	906.3	902.1	895.2
22.5°	907.7	895.2	891.0	882.7	874.3	872.9	868.8	859.0	853.5	850.7	842.4
25°	864.6	853.5	846.5	838.2	825.7	822.9	818.7	809.0	806.2	802.0	795.1
27.5°	820.1	806.2	796.5	788.1	777.0	775.6	767.3	760.3	754.8	752.0	746.4
30°	768.7	753.4	746.4	735.3	727.0	724.2	717.3	707.5	703.4	700.6	696.4
32.5°	711.7	699.2	692.2	682.5	671.4	672.8	664.4	656.1	653.3	650.5	646.4
35°	656.1	643.6	635.2	626.9	620.0	617.2	611.6	604.7	600.5	599.1	596.3
37.5°	594.9	585.2	578.3	569.9	564.4	561.6	558.8	551.8	549.1	549.1	543.5
40°	535.2	526.8	521.3	517.1	510.1	508.8	506.0	501.8	500.4	499.0	494.9
42.5°	481.0	469.8	465.7	462.9	458.7	455.9	454.5	451.8	450.4	449.0	444.8
45°	429.5	419.8	415.6	412.8	408.7	407.3	405.9	401.7	398.9	396.2	394.8
47.5°	379.5	372.5	371.1	364.2	361.4	358.6	355.8	353.1	351.7	350.3	344.7
50°	336.4	332.2	325.3	321.1	318.3	316.9	311.4	307.2	305.8	304.4	300.2
52.5°	297.5	291.9	287.7	280.8	279.4	276.6	273.8	268.3	265.5	264.1	259.9
55°	262.7	258.5	253.0	247.4	243.3	241.9	237.7	232.1	229.4	226.6	223.8
57.5°	233.5	226.6	221.0	215.5	212.7	208.5	204.3	201.6	197.4	193.2	189.0
60°	205.7	200.2	193.2	187.7	184.9	182.1	176.5	172.4	168.2	164.0	159.9
62.5°	179.3	173.8	166.8	161.2	158.5	155.7	150.1	146.0	141.8	137.6	132.1
65°	155.7	150.1	144.6	139.0	136.2	133.4	127.9	122.3	118.2	114.0	108.4
67.5°	136.2	129.3	123.7	118.2	115.4	112.6	107.0	102.9	97.3	93.1	87.6
70°	115.4	109.8	105.6	100.1	97.3	94.5	89.0	83.4	79.2	75.1	69.5
72.5°	97.3	90.4	86.2	80.6	77.8	76.5	70.9	66.7	62.6	57.0	52.8
75°	77.8	72.3	66.7	62.6	59.8	58.4	52.8	48.7	44.5	40.3	36.1
77.5°	59.8	55.6	50.0	45.9	43.1	41.7	36.1	32.0	27.8	25.0	20.9
80°	44.5	38.9	36.1	32.0	30.6	27.8	25.0	20.9	18.1	13.9	11.1
82.5°	30.6	26.4	23.6	20.9	19.5	18.1	15.3	12.5	9.7	8.3	7.0
85°	16.7	13.9	12.5	11.1	9.7	9.7	8.3	7.0	5.6	4.2	2.8
87.5°	5.6	4.2	4.2	4.2	4.2	2.8	2.8	2.8	1.4	1.4	1.4
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: P252364

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1068.9	1068.9	1068.9	1067.5	1067.5	1067.5	1066.2	1071.7	1066.2	1064.8	1068.9
5°	1067.5	1064.8	1064.8	1064.8	1064.8	1063.4	1062.0	1064.8	1060.6	1059.2	1059.2
7.5°	1059.2	1057.8	1057.8	1056.4	1055.0	1053.6	1052.3	1053.6	1049.5	1048.1	1048.1
10°	1060.6	1057.8	1057.8	1053.6	1050.9	1046.7	1042.5	1043.9	1038.4	1034.2	1034.2
12.5°	1043.9	1037.0	1032.8	1028.6	1025.8	1024.5	1018.9	1021.7	1016.1	1014.7	1014.7
15°	1006.4	998.0	991.1	988.3	988.3	985.5	981.4	986.9	984.1	985.5	992.5
17.5°	948.0	943.8	939.7	938.3	939.7	942.4	945.2	953.6	953.6	957.7	964.7
20°	896.6	893.8	896.6	896.6	898.0	903.5	909.1	916.0	918.8	923.0	932.7
22.5°	846.5	846.5	849.3	853.5	852.1	861.8	863.2	875.7	875.7	884.1	892.4
25°	797.9	797.9	800.7	802.0	804.8	810.4	815.9	825.7	828.5	836.8	843.7
27.5°	750.6	749.2	749.2	750.6	753.4	760.3	763.1	774.2	778.4	784.0	790.9
30°	697.8	696.4	699.2	702.0	700.6	707.5	711.7	720.0	722.8	728.4	733.9
32.5°	647.8	647.8	647.8	650.5	650.5	656.1	656.1	665.8	665.8	670.0	675.6
35°	596.3	596.3	597.7	599.1	600.5	601.9	603.3	608.8	610.2	611.6	614.4
37.5°	547.7	546.3	547.7	547.7	544.9	550.5	550.5	556.0	551.8	556.0	557.4
40°	497.6	497.6	496.2	496.2	496.2	499.0	496.2	500.4	497.6	500.4	499.0
42.5°	446.2	446.2	443.4	446.2	444.8	444.8	444.8	447.6	443.4	446.2	447.6
45°	394.8	393.4	393.4	392.0	392.0	392.0	393.4	393.4	392.0	394.8	394.8
47.5°	344.7	343.3	343.3	343.3	343.3	344.7	340.6	343.3	340.6	340.6	340.6
50°	301.6	300.2	298.9	297.5	296.1	296.1	294.7	294.7	291.9	290.5	289.1
52.5°	259.9	258.5	255.8	255.8	254.4	253.0	248.8	248.8	244.6	243.3	243.3
55°	222.4	218.2	216.8	214.1	214.1	211.3	208.5	205.7	201.6	198.8	198.8
57.5°	187.7	183.5	180.7	179.3	177.9	175.1	169.6	168.2	162.6	161.2	159.9
60°	157.1	152.9	148.7	146.0	144.6	140.4	134.8	132.1	129.3	125.1	120.9
62.5°	127.9	123.7	118.2	116.8	114.0	109.8	105.6	101.5	98.7	94.5	91.7
65°	102.9	98.7	94.5	91.7	89.0	84.8	80.6	76.5	73.7	72.3	70.9
67.5°	83.4	77.8	73.7	72.3	69.5	66.7	62.6	61.2	58.4	58.4	58.4
70°	65.3	61.2	57.0	55.6	54.2	51.4	48.7	48.7	48.7	48.7	48.7
72.5°	48.7	45.9	41.7	40.3	38.9	37.5	34.8	36.1	34.8	34.8	34.8
75°	30.6	27.8	25.0	23.6	22.2	20.9	19.5	18.1	16.7	15.3	15.3
77.5°	16.7	13.9	12.5	11.1	11.1	9.7	8.3	8.3	7.0	7.0	7.0
80°	9.7	8.3	7.0	5.6	5.6	4.2	4.2	4.2	4.2	2.8	2.8
82.5°	5.6	4.2	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
85°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P252364

CATALOG NUMBER: LD6B20D010 EU6B10208035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3	1070.3
2.5°	1062.0	1066.2	1062.0	1066.2	1066.2	1066.2	1066.2	1062.0
5°	1055.0	1057.8	1053.6	1056.4	1057.8	1056.4	1056.4	1052.3
7.5°	1042.5	1045.3	1041.1	1045.3	1046.7	1045.3	1043.9	1041.1
10°	1030.0	1031.4	1027.2	1030.0	1032.8	1032.8	1031.4	1027.2
12.5°	1010.6	1014.7	1010.6	1013.3	1016.1	1017.5	1017.5	1013.3
15°	988.3	995.3	992.5	996.7	1000.8	1002.2	1002.2	1000.8
17.5°	966.1	973.0	968.9	975.8	980.0	982.8	984.1	981.4
20°	934.1	942.4	939.7	945.2	950.8	955.0	955.0	950.8
22.5°	892.4	903.5	902.1	906.3	913.2	914.6	917.4	914.6
25°	846.5	854.9	853.5	857.6	866.0	866.0	867.4	867.4
27.5°	793.7	802.0	800.7	803.4	809.0	810.4	811.8	809.0
30°	736.7	740.9	740.9	745.1	749.2	750.6	750.6	746.4
32.5°	674.2	679.7	682.5	681.1	685.3	688.1	686.7	686.7
35°	617.2	618.6	620.0	621.3	622.7	625.5	622.7	621.3
37.5°	556.0	560.2	557.4	560.2	563.0	561.6	560.2	560.2
40°	500.4	501.8	499.0	501.8	503.2	503.2	503.2	500.4
42.5°	444.8	447.6	444.8	447.6	447.6	447.6	447.6	446.2
45°	389.2	392.0	392.0	393.4	393.4	392.0	392.0	392.0
47.5°	337.8	340.6	337.8	340.6	341.9	339.2	339.2	339.2
50°	289.1	287.7	287.7	289.1	289.1	289.1	289.1	287.7
52.5°	239.1	240.5	240.5	240.5	241.9	240.5	241.9	241.9
55°	196.0	196.0	196.0	197.4	196.0	196.0	197.4	198.8
57.5°	157.1	155.7	154.3	154.3	155.7	154.3	154.3	154.3
60°	120.9	119.5	118.2	118.2	118.2	118.2	118.2	116.8
62.5°	90.4	90.4	90.4	91.7	91.7	91.7	91.7	93.1
65°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.7
67.5°	58.4	58.4	58.4	59.8	59.8	59.8	59.8	59.8
70°	48.7	48.7	50.0	48.7	50.0	50.0	50.0	50.0
72.5°	33.4	33.4	33.4	33.4	33.4	32.0	33.4	32.0
75°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	12.5
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
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)