

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: P252221

Luminaire Tested: **LD6B70D010TE EU6B60708035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60708035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE 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: 9253.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

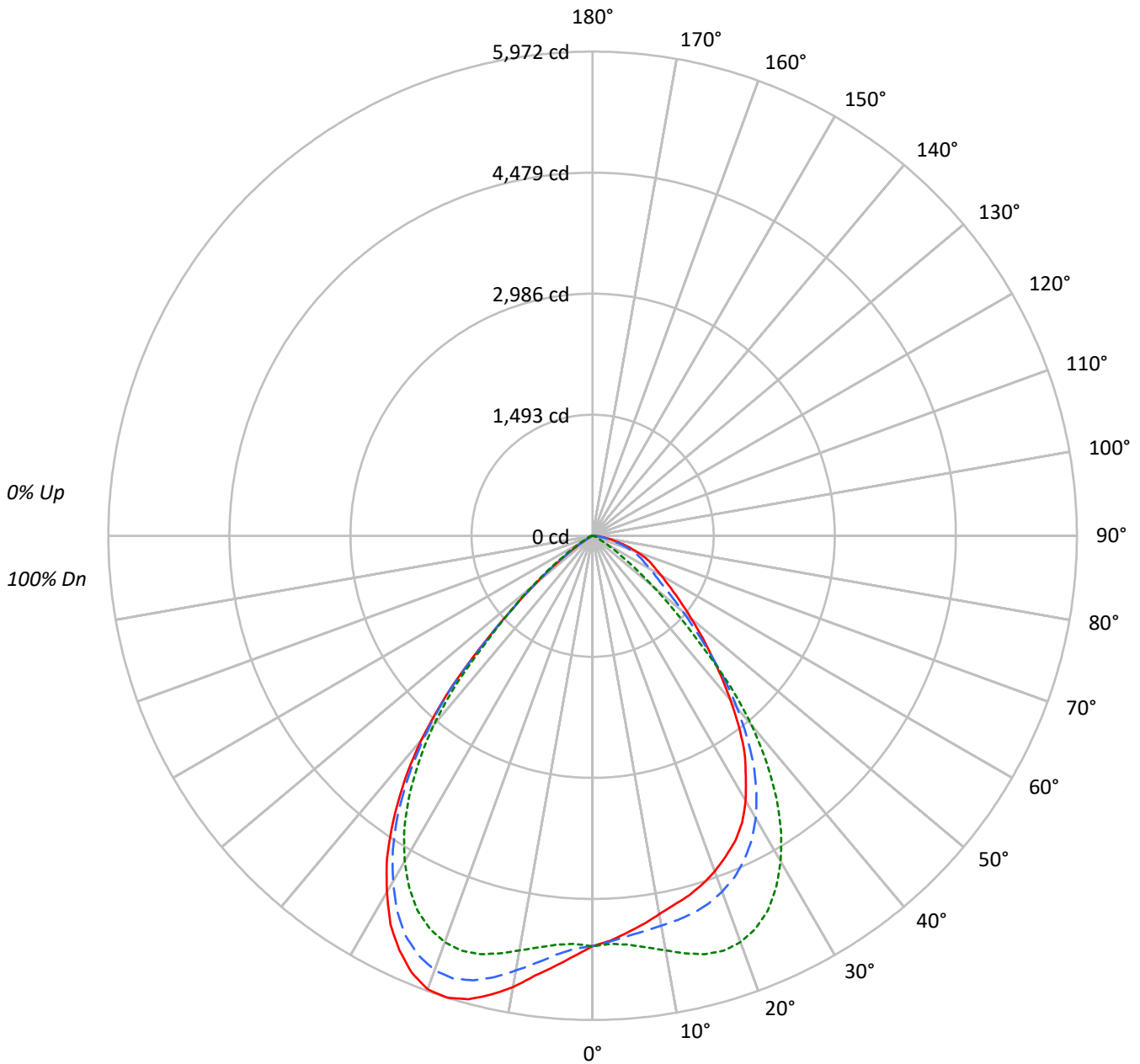
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	330255	330255	330255
5°	321693	331516	348949
10°	313872	344008	374462
15°	310200	360864	399761
20°	305752	370264	413275
25°	299249	367534	405852
30°	284368	349261	382076
35°	260173	314905	341116
40°	225042	260070	279854
45°	189769	170569	183071
50°	161115	98726	92839
55°	139814	47340	35784
60°	126293	22104	8847
65°	122525	12705	2995
70°	109853	10148	2766
75°	90266	7310	1210
80°	67289	3644	0
85°	57938	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.0	5.3
10°-20°	1490.2	16.1
20°-30°	2276.8	24.6
30°-40°	2381.3	25.7
40°-50°	1544.8	16.7
50°-60°	613.4	6.6
60°-70°	291.0	3.1
70°-80°	138.4	1.5
80°-90°	28.2	0.3
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°	4255.9	46.0
0°-40°	6637.3	71.7
0°-60°	8795.4	95.1
0°-90°	9253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5062	5062	5062	5062	5062	
5°	4912	4956	5062	5188	5328	464
15°	4593	4815	5343	5677	5919	1294
25°	4157	4418	5106	5449	5638	1904
35°	3267	3465	3954	4186	4283	2020
45°	2057	2037	1849	1960	1984	1600
55°	1229	1045	416	324	315	1114
65°	794	658	82	19	19	775
75°	358	290	29	10	5	386
85°	77	48	0	0	0	90
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°	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1
2.5°	4999.2	5008.9	4955.7	4941.1	4979.8	4994.4	4999.2	4984.7	4989.5	5008.9	5008.9
5°	4912.1	4921.8	4873.4	4858.9	4897.6	4907.3	4921.8	4916.9	4931.5	4960.5	4955.7
7.5°	4829.8	4844.3	4791.1	4771.8	4820.1	4844.3	4854.0	4854.0	4873.4	4912.1	4916.9
10°	4737.9	4757.2	4708.8	4699.2	4752.4	4776.6	4781.4	4791.1	4820.1	4873.4	4883.1
12.5°	4660.4	4679.8	4645.9	4631.4	4689.5	4713.7	4723.4	4742.7	4776.6	4844.3	4854.0
15°	4592.7	4607.2	4568.5	4558.8	4616.9	4645.9	4650.8	4679.8	4723.4	4800.8	4815.3
17.5°	4505.6	4515.3	4486.2	4476.5	4534.6	4563.7	4568.5	4602.4	4655.6	4733.0	4757.2
20°	4403.9	4413.6	4384.6	4374.9	4433.0	4466.9	4471.7	4500.7	4563.7	4645.9	4670.1
22.5°	4283.0	4302.3	4268.4	4258.8	4316.8	4345.9	4360.4	4384.6	4447.5	4529.8	4563.7
25°	4157.1	4157.1	4132.9	4128.1	4181.3	4215.2	4210.4	4244.2	4307.2	4389.4	4418.5
27.5°	3992.6	3987.8	3963.6	3958.7	4016.8	4045.8	4036.1	4070.0	4128.1	4210.4	4239.4
30°	3774.8	3784.5	3750.6	3740.9	3789.3	3837.7	3832.9	3866.8	3924.8	4002.3	4021.6
32.5°	3513.5	3523.2	3518.3	3503.8	3547.4	3571.6	3586.1	3610.3	3658.7	3740.9	3760.3
35°	3266.7	3252.1	3232.8	3232.8	3276.3	3315.1	3300.5	3329.6	3378.0	3460.2	3465.1
37.5°	2961.8	2956.9	2947.3	2937.6	2986.0	2995.7	3000.5	3019.9	3063.4	3131.2	3121.5
40°	2642.4	2647.2	2642.4	2623.0	2652.0	2690.8	2685.9	2695.6	2734.3	2782.7	2768.2
42.5°	2342.3	2342.3	2342.3	2323.0	2356.8	2376.2	2385.9	2381.0	2390.7	2434.3	2414.9
45°	2056.8	2061.6	2056.8	2051.9	2056.8	2066.5	2056.8	2051.9	2051.9	2066.5	2037.4
47.5°	1810.0	1810.0	1795.5	1780.9	1795.5	1800.3	1785.8	1771.3	1766.4	1761.6	1713.2
50°	1587.4	1582.5	1577.7	1553.5	1568.0	1572.8	1553.5	1543.8	1524.4	1500.2	1442.2
52.5°	1393.8	1388.9	1384.1	1359.9	1369.6	1374.4	1355.1	1335.7	1311.5	1292.1	1219.6
55°	1229.2	1224.4	1224.4	1209.9	1200.2	1209.9	1190.5	1176.0	1142.1	1117.9	1045.3
57.5°	1088.9	1088.9	1079.2	1064.7	1069.5	1069.5	1050.2	1030.8	1001.8	972.7	914.7
60°	967.9	967.9	967.9	953.4	953.4	953.4	943.7	924.3	900.1	871.1	813.0
62.5°	871.1	871.1	866.3	851.8	856.6	856.6	846.9	827.6	803.4	784.0	725.9
65°	793.7	793.7	793.7	779.2	779.2	784.0	774.3	755.0	735.6	711.4	658.2
67.5°	696.9	692.0	692.0	682.4	687.2	692.0	682.4	667.9	643.7	629.1	580.7
70°	575.9	580.7	585.6	571.1	575.9	575.9	571.1	556.5	542.0	527.5	484.0
72.5°	469.4	469.4	464.6	459.8	459.8	464.6	454.9	440.4	430.7	421.0	387.2
75°	358.1	353.3	358.1	348.4	348.4	348.4	338.8	333.9	329.1	314.6	290.4
77.5°	261.3	256.5	256.5	246.8	251.7	251.7	246.8	237.1	227.5	222.6	203.3
80°	179.1	179.1	179.1	174.2	174.2	169.4	169.4	164.5	154.9	150.0	140.3
82.5°	121.0	121.0	121.0	116.1	116.1	116.1	111.3	106.5	101.6	96.8	87.1
85°	77.4	77.4	77.4	72.6	72.6	72.6	67.8	67.8	62.9	58.1	48.4
87.5°	43.6	43.6	43.6	38.7	38.7	38.7	38.7	38.7	33.9	29.0	24.2
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°	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1
2.5°	5042.8	4975.0	5018.6	5018.6	5004.0	5042.8	5067.0	5086.3	5081.5	5037.9	5033.1
5°	5004.0	4946.0	4994.4	4999.2	4984.7	5037.9	5071.8	5096.0	5100.8	5062.1	5067.0
7.5°	4975.0	4926.6	4989.5	5008.9	5004.0	5052.4	5091.2	5129.9	5149.2	5120.2	5125.0
10°	4960.5	4921.8	4989.5	5018.6	5023.4	5076.6	5134.7	5187.9	5212.1	5192.8	5207.3
12.5°	4941.1	4916.9	4994.4	5037.9	5057.3	5110.5	5183.1	5246.0	5284.7	5275.1	5304.1
15°	4921.8	4902.4	4994.4	5057.3	5081.5	5129.9	5212.1	5304.1	5347.7	5342.8	5381.5
17.5°	4873.4	4868.5	4965.3	5033.1	5067.0	5125.0	5202.5	5313.8	5357.3	5367.0	5415.4
20°	4795.9	4795.9	4902.4	4975.0	5013.7	5067.0	5163.8	5270.2	5323.5	5333.1	5386.4
22.5°	4689.5	4699.2	4800.8	4873.4	4931.5	4970.2	5071.8	5183.1	5231.5	5246.0	5304.1
25°	4549.1	4558.8	4655.6	4728.2	4791.1	4834.7	4931.5	5033.1	5091.2	5105.7	5149.2
27.5°	4365.2	4384.6	4476.5	4549.1	4602.4	4631.4	4733.0	4839.5	4883.1	4897.6	4941.1
30°	4152.3	4157.1	4249.1	4312.0	4365.2	4389.4	4476.5	4587.8	4621.7	4636.2	4699.2
32.5°	3891.0	3886.1	3973.2	4031.3	4074.9	4103.9	4195.8	4268.4	4302.3	4326.5	4360.4
35°	3576.4	3571.6	3634.5	3702.2	3736.1	3745.8	3837.7	3915.2	3934.5	3953.9	3997.4
37.5°	3223.1	3223.1	3276.3	3310.2	3348.9	3363.5	3407.0	3494.1	3528.0	3523.2	3557.0
40°	2850.5	2831.1	2869.8	2903.7	2913.4	2918.2	2961.8	3029.5	3053.7	3053.7	3077.9
42.5°	2458.5	2429.4	2434.3	2453.6	2463.3	2429.4	2458.5	2502.0	2487.5	2506.9	2511.7
45°	2042.3	1998.7	1979.4	1935.8	1945.5	1911.6	1892.2	1901.9	1897.1	1848.7	1858.4
47.5°	1703.5	1626.1	1592.2	1529.3	1514.8	1476.0	1451.9	1408.3	1369.6	1369.6	1345.4
50°	1418.0	1340.5	1272.8	1200.2	1176.0	1142.1	1088.9	1030.8	1001.8	972.7	948.5
52.5°	1190.5	1108.2	1026.0	948.5	914.7	871.1	798.5	740.4	687.2	658.2	629.1
55°	1006.6	914.7	827.6	745.3	701.7	658.2	585.6	517.8	454.9	416.2	392.0
57.5°	866.3	779.2	687.2	600.1	561.4	513.0	435.6	363.0	304.9	261.3	237.1
60°	764.6	677.5	595.3	503.3	464.6	416.2	333.9	266.2	208.1	169.4	140.3
62.5°	677.5	600.1	513.0	430.7	392.0	343.6	266.2	198.4	145.2	106.5	82.3
65°	614.6	537.2	464.6	382.3	348.4	300.0	227.5	164.5	116.1	82.3	58.1
67.5°	542.0	474.3	401.7	333.9	300.0	261.3	193.6	140.3	96.8	67.8	48.4
70°	454.9	401.7	338.8	275.9	251.7	217.8	159.7	116.1	77.4	53.2	38.7
72.5°	363.0	319.4	271.0	222.6	203.3	169.4	130.7	92.0	58.1	38.7	29.0
75°	275.9	242.0	203.3	169.4	150.0	130.7	96.8	67.8	43.6	29.0	19.4
77.5°	188.7	174.2	145.2	116.1	106.5	92.0	62.9	43.6	29.0	19.4	9.7
80°	130.7	116.1	96.8	77.4	67.8	58.1	38.7	29.0	14.5	9.7	4.8
82.5°	82.3	67.8	58.1	48.4	43.6	33.9	24.2	14.5	9.7	4.8	4.8
85°	43.6	38.7	33.9	24.2	24.2	19.4	14.5	9.7	4.8	0.0	0.0
87.5°	24.2	19.4	14.5	9.7	9.7	4.8	4.8	4.8	0.0	0.0	0.0
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°	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1
2.5°	5091.2	5091.2	5086.3	5144.4	5076.6	5144.4	5110.5	5144.4	5096.0	5091.2	5096.0
5°	5129.9	5144.4	5149.2	5202.5	5139.6	5221.8	5192.8	5221.8	5187.9	5197.6	5212.1
7.5°	5207.3	5231.5	5226.7	5294.4	5231.5	5323.5	5304.1	5347.7	5313.8	5323.5	5342.8
10°	5294.4	5323.5	5328.3	5396.0	5338.0	5449.3	5425.1	5473.5	5444.4	5459.0	5483.2
12.5°	5396.0	5429.9	5434.8	5512.2	5449.3	5565.4	5550.9	5599.3	5575.1	5589.6	5618.7
15°	5473.5	5521.9	5531.6	5609.0	5541.2	5662.2	5652.5	5715.5	5676.7	5700.9	5725.1
17.5°	5512.2	5555.8	5575.1	5647.7	5589.6	5710.6	5700.9	5754.2	5725.1	5749.3	5778.4
20°	5488.0	5541.2	5555.8	5628.3	5570.3	5691.3	5676.7	5730.0	5700.9	5720.3	5749.3
22.5°	5400.9	5454.1	5473.5	5541.2	5488.0	5599.3	5594.5	5642.9	5604.1	5628.3	5652.5
25°	5246.0	5304.1	5313.8	5376.7	5318.6	5434.8	5425.1	5478.3	5449.3	5463.8	5497.7
27.5°	5023.4	5091.2	5105.7	5158.9	5115.4	5212.1	5212.1	5255.7	5221.8	5221.8	5255.7
30°	4757.2	4825.0	4834.7	4878.2	4839.5	4926.6	4931.5	4975.0	4921.8	4950.8	4955.7
32.5°	4433.0	4476.5	4505.6	4544.3	4486.2	4597.5	4583.0	4616.9	4587.8	4587.8	4612.0
35°	4041.0	4094.2	4108.7	4157.1	4108.7	4195.8	4195.8	4215.2	4186.2	4186.2	4224.9
37.5°	3615.1	3653.8	3658.7	3707.1	3668.3	3740.9	3736.1	3750.6	3721.6	3740.9	3740.9
40°	3116.6	3145.7	3155.4	3179.6	3174.7	3227.9	3223.1	3232.8	3218.3	3223.1	3232.8
42.5°	2535.9	2574.6	2594.0	2613.3	2584.3	2656.9	2642.4	2656.9	2652.0	2656.9	2671.4
45°	1868.0	1897.1	1911.6	1916.4	1906.8	1950.3	1984.2	1955.2	1960.0	1950.3	1969.7
47.5°	1350.2	1355.1	1345.4	1374.4	1350.2	1369.6	1379.3	1384.1	1355.1	1350.2	1369.6
50°	924.3	948.5	914.7	929.2	924.3	943.7	934.0	938.9	909.8	924.3	914.7
52.5°	614.6	609.8	600.1	604.9	595.3	595.3	595.3	604.9	585.6	575.9	566.2
55°	372.6	363.0	343.6	338.8	338.8	343.6	333.9	324.2	324.2	319.4	319.4
57.5°	217.8	203.3	193.6	188.7	179.1	174.2	169.4	169.4	159.7	159.7	159.7
60°	121.0	106.5	96.8	87.1	87.1	82.3	77.4	72.6	72.6	72.6	67.8
62.5°	62.9	53.2	43.6	38.7	38.7	33.9	29.0	29.0	29.0	29.0	24.2
65°	43.6	33.9	29.0	24.2	24.2	19.4	19.4	19.4	19.4	19.4	19.4
67.5°	33.9	29.0	24.2	19.4	19.4	19.4	14.5	14.5	14.5	14.5	14.5
70°	29.0	19.4	19.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
72.5°	19.4	19.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
75°	14.5	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0
80°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P252221

CATALOG NUMBER: LD6B70D010TE EU6B60708035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1	5062.1
2.5°	5139.6	5134.7	5139.6	5149.2	5129.9	5187.9	5158.9	5187.9
5°	5250.9	5255.7	5260.5	5275.1	5250.9	5323.5	5284.7	5328.3
7.5°	5396.0	5400.9	5405.7	5420.2	5405.7	5478.3	5434.8	5473.5
10°	5546.1	5555.8	5555.8	5579.9	5565.4	5633.2	5604.1	5652.5
12.5°	5686.4	5696.1	5705.8	5720.3	5710.6	5783.2	5759.0	5797.7
15°	5797.7	5817.1	5821.9	5841.3	5831.6	5909.0	5880.0	5918.7
17.5°	5851.0	5870.3	5870.3	5894.5	5884.8	5967.1	5928.4	5971.9
20°	5821.9	5836.4	5841.3	5865.5	5855.8	5938.1	5899.4	5952.6
22.5°	5730.0	5734.8	5739.7	5763.8	5759.0	5831.6	5797.7	5831.6
25°	5560.6	5575.1	5570.3	5589.6	5589.6	5647.7	5609.0	5638.0
27.5°	5318.6	5333.1	5333.1	5357.3	5338.0	5396.0	5357.3	5400.9
30°	5023.4	5037.9	5028.2	5047.6	5028.2	5086.3	5057.3	5071.8
32.5°	4670.1	4670.1	4675.0	4679.8	4670.1	4723.4	4694.3	4723.4
35°	4249.1	4258.8	4263.6	4268.4	4258.8	4297.5	4263.6	4283.0
37.5°	3774.8	3799.0	3794.2	3799.0	3784.5	3832.9	3803.9	3813.5
40°	3266.7	3266.7	3261.8	3271.5	3257.0	3295.7	3276.3	3286.0
42.5°	2676.2	2690.8	2671.4	2695.6	2656.9	2710.1	2690.8	2676.2
45°	2008.4	1989.0	1984.2	1989.0	1974.5	1979.4	1993.9	1984.2
47.5°	1369.6	1369.6	1359.9	1345.4	1364.7	1369.6	1350.2	1350.2
50°	919.5	919.5	909.8	905.0	914.7	909.8	900.1	914.7
52.5°	585.6	566.2	566.2	575.9	566.2	556.5	571.1	561.4
55°	319.4	309.7	309.7	319.4	309.7	309.7	304.9	314.6
57.5°	154.9	159.7	154.9	154.9	154.9	154.9	150.0	154.9
60°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
62.5°	29.0	29.0	24.2	24.2	24.2	24.2	24.2	24.2
65°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
67.5°	14.5	14.5	14.5	14.5	14.5	19.4	14.5	14.5
70°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
72.5°	14.5	14.5	19.4	19.4	19.4	19.4	19.4	19.4
75°	9.7	9.7	9.7	4.8	4.8	4.8	4.8	4.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)