

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: P252220

Luminaire Tested: **LD6B70D010TE EU6B60708030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252220
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 EU6B60708030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9022.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

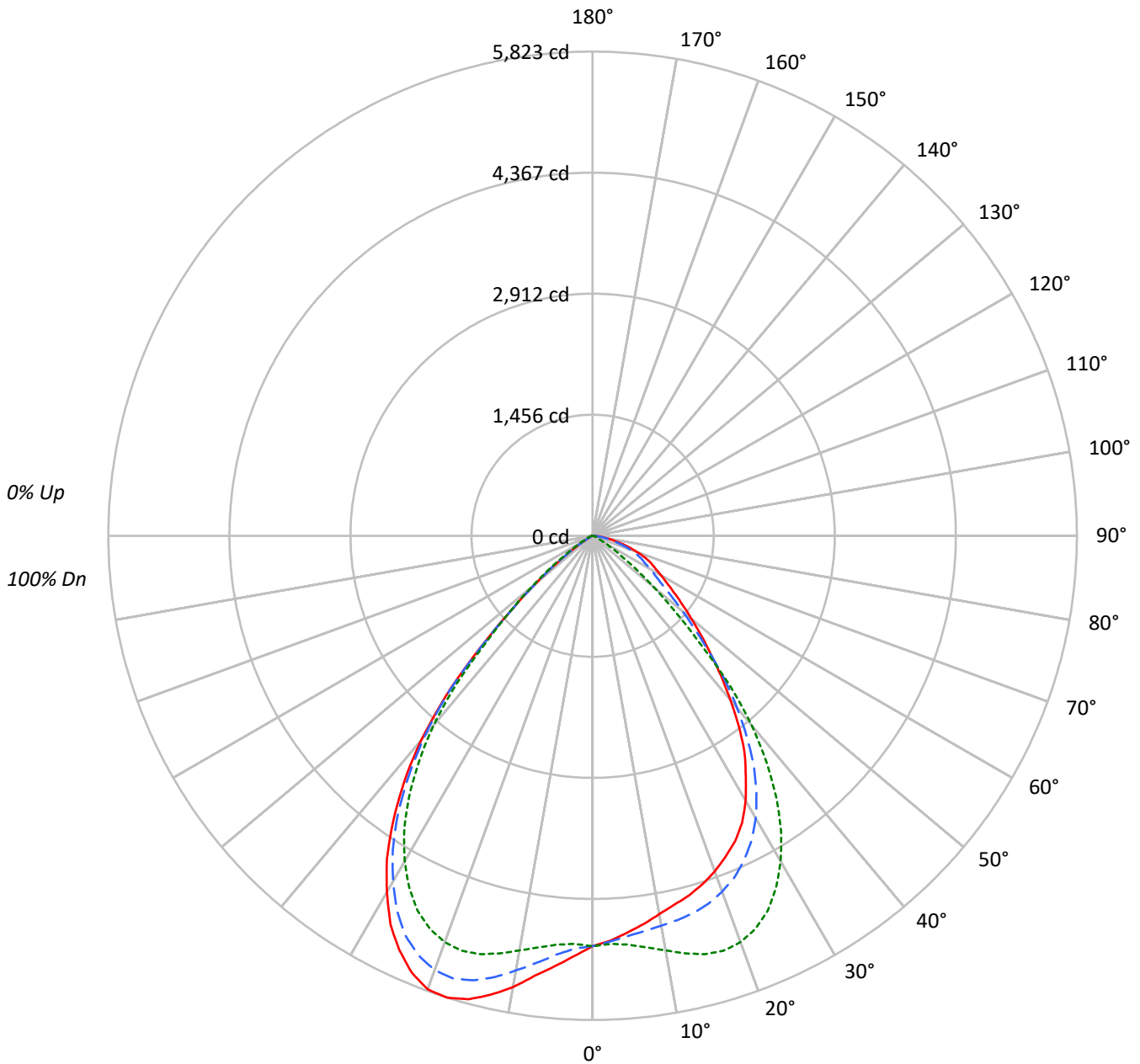
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	322008	322008	322008
5°	313664	323238	340239
10°	306035	335422	365114
15°	302453	351854	389785
20°	298122	361024	402958
25°	291784	358356	395724
30°	277272	340545	372539
35°	253674	307044	332594
40°	219421	253581	272871
45°	185027	166306	178504
50°	157086	96269	90514
55°	136322	46157	34885
60°	123135	21556	8625
65°	119469	12381	2918
70°	107107	9900	2709
75°	88023	7134	1185
80°	65598	3532	0
85°	56516	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	5.3
10°-20°	1453.0	16.1
20°-30°	2220.0	24.6
30°-40°	2321.9	25.7
40°-50°	1506.2	16.7
50°-60°	598.1	6.6
60°-70°	283.7	3.1
70°-80°	134.9	1.5
80°-90°	27.5	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°	4149.7	46.0
0°-40°	6471.6	71.7
0°-60°	8575.9	95.1
0°-90°	9022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9022.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4936	4936	4936	4936	4936	
5°	4790	4832	4936	5058	5195	452
15°	4478	4695	5209	5535	5771	1262
25°	4053	4308	4978	5313	5497	1856
35°	3185	3379	3855	4082	4176	1970
45°	2005	1987	1802	1911	1935	1560
55°	1198	1019	406	316	307	1086
65°	774	642	80	19	19	756
75°	349	283	28	9	5	377
85°	76	47	0	0	0	88
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°	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7
2.5°	4874.4	4883.8	4831.9	4817.8	4855.5	4869.7	4874.4	4860.2	4865.0	4883.8	4883.8
5°	4789.5	4798.9	4751.7	4737.6	4775.3	4784.7	4798.9	4794.2	4808.3	4836.7	4831.9
7.5°	4709.2	4723.4	4671.5	4652.6	4699.8	4723.4	4732.8	4732.8	4751.7	4789.5	4794.2
10°	4619.6	4638.5	4591.3	4581.8	4633.7	4657.3	4662.1	4671.5	4699.8	4751.7	4761.2
12.5°	4544.1	4563.0	4529.9	4515.8	4572.4	4596.0	4605.4	4624.3	4657.3	4723.4	4732.8
15°	4478.0	4492.2	4454.4	4445.0	4501.6	4529.9	4534.7	4563.0	4605.4	4680.9	4695.1
17.5°	4393.1	4402.5	4374.2	4364.8	4421.4	4449.7	4454.4	4487.5	4539.4	4614.9	4638.5
20°	4294.0	4303.4	4275.1	4265.7	4322.3	4355.3	4360.1	4388.4	4449.7	4529.9	4553.5
22.5°	4176.0	4194.9	4161.9	4152.4	4209.1	4237.4	4251.5	4275.1	4336.5	4416.7	4449.7
25°	4053.4	4053.4	4029.8	4025.0	4076.9	4110.0	4105.3	4138.3	4199.6	4279.8	4308.2
27.5°	3892.9	3888.2	3864.6	3859.9	3916.5	3944.8	3935.4	3968.4	4025.0	4105.3	4133.6
30°	3680.6	3690.0	3657.0	3647.5	3694.7	3741.9	3737.2	3770.2	3826.9	3902.4	3921.2
32.5°	3425.8	3435.2	3430.5	3416.3	3458.8	3482.4	3496.5	3520.1	3567.3	3647.5	3666.4
35°	3185.1	3171.0	3152.1	3152.1	3194.6	3232.3	3218.1	3246.5	3293.6	3373.9	3378.6
37.5°	2887.8	2883.1	2873.7	2864.2	2911.4	2920.9	2925.6	2944.5	2986.9	3053.0	3043.6
40°	2576.4	2581.1	2576.4	2557.5	2585.8	2623.6	2618.9	2628.3	2666.1	2713.2	2699.1
42.5°	2283.8	2283.8	2283.8	2265.0	2298.0	2316.9	2326.3	2321.6	2331.0	2373.5	2354.6
45°	2005.4	2010.2	2005.4	2000.7	2005.4	2014.9	2005.4	2000.7	2000.7	2014.9	1986.6
47.5°	1764.8	1764.8	1750.6	1736.5	1750.6	1755.4	1741.2	1727.0	1722.3	1717.6	1670.4
50°	1547.7	1543.0	1538.3	1514.7	1528.9	1533.6	1514.7	1505.3	1486.4	1462.8	1406.2
52.5°	1359.0	1354.3	1349.5	1326.0	1335.4	1340.1	1321.2	1302.4	1278.8	1259.9	1189.1
55°	1198.5	1193.8	1193.8	1179.7	1170.2	1179.7	1160.8	1146.6	1113.6	1090.0	1019.2
57.5°	1061.7	1061.7	1052.3	1038.1	1042.8	1042.8	1024.0	1005.1	976.8	948.5	891.8
60°	943.7	943.7	943.7	929.6	929.6	929.6	920.1	901.3	877.7	849.4	792.7
62.5°	849.4	849.4	844.6	830.5	835.2	835.2	825.8	806.9	783.3	764.4	707.8
65°	773.9	773.9	773.9	759.7	759.7	764.4	755.0	736.1	717.2	693.6	641.7
67.5°	679.5	674.8	674.8	665.3	670.1	674.8	665.3	651.2	627.6	613.4	566.2
70°	561.5	566.2	571.0	556.8	561.5	561.5	556.8	542.6	528.5	514.3	471.9
72.5°	457.7	457.7	453.0	448.3	448.3	453.0	443.6	429.4	420.0	410.5	377.5
75°	349.2	344.5	349.2	339.7	339.7	339.7	330.3	325.6	320.9	306.7	283.1
77.5°	254.8	250.1	250.1	240.7	245.4	245.4	240.7	231.2	221.8	217.1	198.2
80°	174.6	174.6	174.6	169.9	169.9	165.2	165.2	160.4	151.0	146.3	136.8
82.5°	118.0	118.0	118.0	113.2	113.2	113.2	108.5	103.8	99.1	94.4	84.9
85°	75.5	75.5	75.5	70.8	70.8	70.8	66.1	66.1	61.3	56.6	47.2
87.5°	42.5	42.5	42.5	37.7	37.7	37.7	37.7	37.7	33.0	28.3	23.6
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°	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7
2.5°	4916.9	4850.8	4893.3	4893.3	4879.1	4916.9	4940.5	4959.3	4954.6	4912.2	4907.4
5°	4879.1	4822.5	4869.7	4874.4	4860.2	4912.2	4945.2	4968.8	4973.5	4935.7	4940.5
7.5°	4850.8	4803.6	4865.0	4883.8	4879.1	4926.3	4964.1	5001.8	5020.7	4992.4	4997.1
10°	4836.7	4798.9	4865.0	4893.3	4898.0	4949.9	5006.5	5058.4	5082.0	5063.2	5077.3
12.5°	4817.8	4794.2	4869.7	4912.2	4931.0	4982.9	5053.7	5115.1	5152.8	5143.4	5171.7
15°	4798.9	4780.0	4869.7	4931.0	4954.6	5001.8	5082.0	5171.7	5214.1	5209.4	5247.2
17.5°	4751.7	4747.0	4841.4	4907.4	4940.5	4997.1	5072.6	5181.1	5223.6	5233.0	5280.2
20°	4676.2	4676.2	4780.0	4850.8	4888.6	4940.5	5034.8	5138.6	5190.6	5200.0	5251.9
22.5°	4572.4	4581.8	4680.9	4751.7	4808.3	4846.1	4945.2	5053.7	5100.9	5115.1	5171.7
25°	4435.6	4445.0	4539.4	4610.2	4671.5	4714.0	4808.3	4907.4	4964.1	4978.2	5020.7
27.5°	4256.3	4275.1	4364.8	4435.6	4487.5	4515.8	4614.9	4718.7	4761.2	4775.3	4817.8
30°	4048.6	4053.4	4143.0	4204.3	4256.3	4279.8	4364.8	4473.3	4506.3	4520.5	4581.8
32.5°	3793.8	3789.1	3874.0	3930.7	3973.1	4001.4	4091.1	4161.9	4194.9	4218.5	4251.5
35°	3487.1	3482.4	3543.7	3609.8	3642.8	3652.3	3741.9	3817.4	3836.3	3855.2	3897.6
37.5°	3142.6	3142.6	3194.6	3227.6	3265.3	3279.5	3322.0	3406.9	3439.9	3435.2	3468.2
40°	2779.3	2760.4	2798.2	2831.2	2840.6	2845.4	2887.8	2953.9	2977.5	2977.5	3001.1
42.5°	2397.1	2368.8	2373.5	2392.4	2401.8	2368.8	2397.1	2439.6	2425.4	2444.3	2449.0
45°	1991.3	1948.8	1929.9	1887.5	1896.9	1863.9	1845.0	1854.4	1849.7	1802.5	1812.0
47.5°	1661.0	1585.5	1552.4	1491.1	1476.9	1439.2	1415.6	1373.1	1335.4	1335.4	1311.8
50°	1382.6	1307.1	1241.0	1170.2	1146.6	1113.6	1061.7	1005.1	976.8	948.5	924.9
52.5°	1160.8	1080.6	1000.4	924.9	891.8	849.4	778.6	722.0	670.1	641.7	613.4
55°	981.5	891.8	806.9	726.7	684.2	641.7	571.0	504.9	443.6	405.8	382.2
57.5°	844.6	759.7	670.1	585.1	547.4	500.2	424.7	353.9	297.3	254.8	231.2
60°	745.6	660.6	580.4	490.7	453.0	405.8	325.6	259.5	202.9	165.2	136.8
62.5°	660.6	585.1	500.2	420.0	382.2	335.0	259.5	193.5	141.6	103.8	80.2
65°	599.3	523.8	453.0	372.8	339.7	292.6	221.8	160.4	113.2	80.2	56.6
67.5°	528.5	462.4	391.7	325.6	292.6	254.8	188.7	136.8	94.4	66.1	47.2
70°	443.6	391.7	330.3	269.0	245.4	212.3	155.7	113.2	75.5	51.9	37.7
72.5°	353.9	311.4	264.2	217.1	198.2	165.2	127.4	89.7	56.6	37.7	28.3
75°	269.0	235.9	198.2	165.2	146.3	127.4	94.4	66.1	42.5	28.3	18.9
77.5°	184.0	169.9	141.6	113.2	103.8	89.7	61.3	42.5	28.3	18.9	9.4
80°	127.4	113.2	94.4	75.5	66.1	56.6	37.7	28.3	14.2	9.4	4.7
82.5°	80.2	66.1	56.6	47.2	42.5	33.0	23.6	14.2	9.4	4.7	4.7
85°	42.5	37.7	33.0	23.6	23.6	18.9	14.2	9.4	4.7	0.0	0.0
87.5°	23.6	18.9	14.2	9.4	9.4	4.7	4.7	4.7	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°	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7
2.5°	4964.1	4964.1	4959.3	5016.0	4949.9	5016.0	4982.9	5016.0	4968.8	4964.1	4968.8
5°	5001.8	5016.0	5020.7	5072.6	5011.2	5091.5	5063.2	5091.5	5058.4	5067.9	5082.0
7.5°	5077.3	5100.9	5096.2	5162.2	5100.9	5190.6	5171.7	5214.1	5181.1	5190.6	5209.4
10°	5162.2	5190.6	5195.3	5261.3	5204.7	5313.2	5289.6	5336.8	5308.5	5322.7	5346.3
12.5°	5261.3	5294.4	5299.1	5374.6	5313.2	5426.5	5412.3	5459.5	5435.9	5450.1	5478.4
15°	5336.8	5384.0	5393.5	5469.0	5402.9	5520.9	5511.4	5572.8	5535.0	5558.6	5582.2
17.5°	5374.6	5417.1	5435.9	5506.7	5450.1	5568.0	5558.6	5610.5	5582.2	5605.8	5634.1
20°	5351.0	5402.9	5417.1	5487.8	5431.2	5549.2	5535.0	5586.9	5558.6	5577.5	5605.8
22.5°	5266.1	5318.0	5336.8	5402.9	5351.0	5459.5	5454.8	5502.0	5464.2	5487.8	5511.4
25°	5115.1	5171.7	5181.1	5242.5	5185.8	5299.1	5289.6	5341.6	5313.2	5327.4	5360.4
27.5°	4898.0	4964.1	4978.2	5030.1	4987.7	5082.0	5082.0	5124.5	5091.5	5091.5	5124.5
30°	4638.5	4704.5	4714.0	4756.4	4718.7	4803.6	4808.3	4850.8	4798.9	4827.2	4831.9
32.5°	4322.3	4364.8	4393.1	4430.8	4374.2	4482.8	4468.6	4501.6	4473.3	4473.3	4496.9
35°	3940.1	3992.0	4006.2	4053.4	4006.2	4091.1	4091.1	4110.0	4081.7	4081.7	4119.4
37.5°	3524.9	3562.6	3567.3	3614.5	3576.8	3647.5	3642.8	3657.0	3628.7	3647.5	3647.5
40°	3038.8	3067.1	3076.6	3100.2	3095.5	3147.4	3142.6	3152.1	3137.9	3142.6	3152.1
42.5°	2472.6	2510.3	2529.2	2548.1	2519.8	2590.6	2576.4	2590.6	2585.8	2590.6	2604.7
45°	1821.4	1849.7	1863.9	1868.6	1859.2	1901.6	1934.7	1906.3	1911.1	1901.6	1920.5
47.5°	1316.5	1321.2	1311.8	1340.1	1316.5	1335.4	1344.8	1349.5	1321.2	1316.5	1335.4
50°	901.3	924.9	891.8	906.0	901.3	920.1	910.7	915.4	887.1	901.3	891.8
52.5°	599.3	594.6	585.1	589.8	580.4	580.4	580.4	589.8	571.0	561.5	552.1
55°	363.3	353.9	335.0	330.3	330.3	335.0	325.6	316.2	316.2	311.4	311.4
57.5°	212.3	198.2	188.7	184.0	174.6	169.9	165.2	165.2	155.7	155.7	155.7
60°	118.0	103.8	94.4	84.9	84.9	80.2	75.5	70.8	70.8	70.8	66.1
62.5°	61.3	51.9	42.5	37.7	37.7	33.0	28.3	28.3	28.3	28.3	23.6
65°	42.5	33.0	28.3	23.6	23.6	18.9	18.9	18.9	18.9	18.9	18.9
67.5°	33.0	28.3	23.6	18.9	18.9	18.9	14.2	14.2	14.2	14.2	14.2
70°	28.3	18.9	18.9	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	18.9	18.9	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
75°	14.2	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	0.0	0.0	0.0	0.0	0.0
80°	4.7	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: P252220

CATALOG NUMBER: LD6B70D010TE EU6B60708030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7	4935.7
2.5°	5011.2	5006.5	5011.2	5020.7	5001.8	5058.4	5030.1	5058.4
5°	5119.8	5124.5	5129.2	5143.4	5119.8	5190.6	5152.8	5195.3
7.5°	5261.3	5266.1	5270.8	5284.9	5270.8	5341.6	5299.1	5336.8
10°	5407.6	5417.1	5417.1	5440.6	5426.5	5492.6	5464.2	5511.4
12.5°	5544.5	5553.9	5563.3	5577.5	5568.0	5638.8	5615.2	5653.0
15°	5653.0	5671.9	5676.6	5695.5	5686.0	5761.5	5733.2	5771.0
17.5°	5704.9	5723.8	5723.8	5747.4	5737.9	5818.1	5780.4	5822.9
20°	5676.6	5690.7	5695.5	5719.0	5709.6	5789.8	5752.1	5804.0
22.5°	5586.9	5591.6	5596.4	5620.0	5615.2	5686.0	5653.0	5686.0
25°	5421.8	5435.9	5431.2	5450.1	5450.1	5506.7	5469.0	5497.3
27.5°	5185.8	5200.0	5200.0	5223.6	5204.7	5261.3	5223.6	5266.1
30°	4898.0	4912.2	4902.7	4921.6	4902.7	4959.3	4931.0	4945.2
32.5°	4553.5	4553.5	4558.3	4563.0	4553.5	4605.4	4577.1	4605.4
35°	4143.0	4152.4	4157.2	4161.9	4152.4	4190.2	4157.2	4176.0
37.5°	3680.6	3704.2	3699.5	3704.2	3690.0	3737.2	3708.9	3718.3
40°	3185.1	3185.1	3180.4	3189.8	3175.7	3213.4	3194.6	3204.0
42.5°	2609.4	2623.6	2604.7	2628.3	2590.6	2642.5	2623.6	2609.4
45°	1958.3	1939.4	1934.7	1939.4	1925.2	1929.9	1944.1	1934.7
47.5°	1335.4	1335.4	1326.0	1311.8	1330.7	1335.4	1316.5	1316.5
50°	896.6	896.6	887.1	882.4	891.8	887.1	877.7	891.8
52.5°	571.0	552.1	552.1	561.5	552.1	542.6	556.8	547.4
55°	311.4	302.0	302.0	311.4	302.0	302.0	297.3	306.7
57.5°	151.0	155.7	151.0	151.0	151.0	151.0	146.3	151.0
60°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
62.5°	28.3	28.3	23.6	23.6	23.6	23.6	23.6	23.6
65°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
67.5°	14.2	14.2	14.2	14.2	14.2	18.9	14.2	14.2
70°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	14.2	14.2	18.9	18.9	18.9	18.9	18.9	18.9
75°	9.4	9.4	9.4	4.7	4.7	4.7	4.7	4.7
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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)