

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: P252226

Luminaire Tested: **LD6B70D010TE EU6B60709030 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252226  
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 EU6B60709030 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7705.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

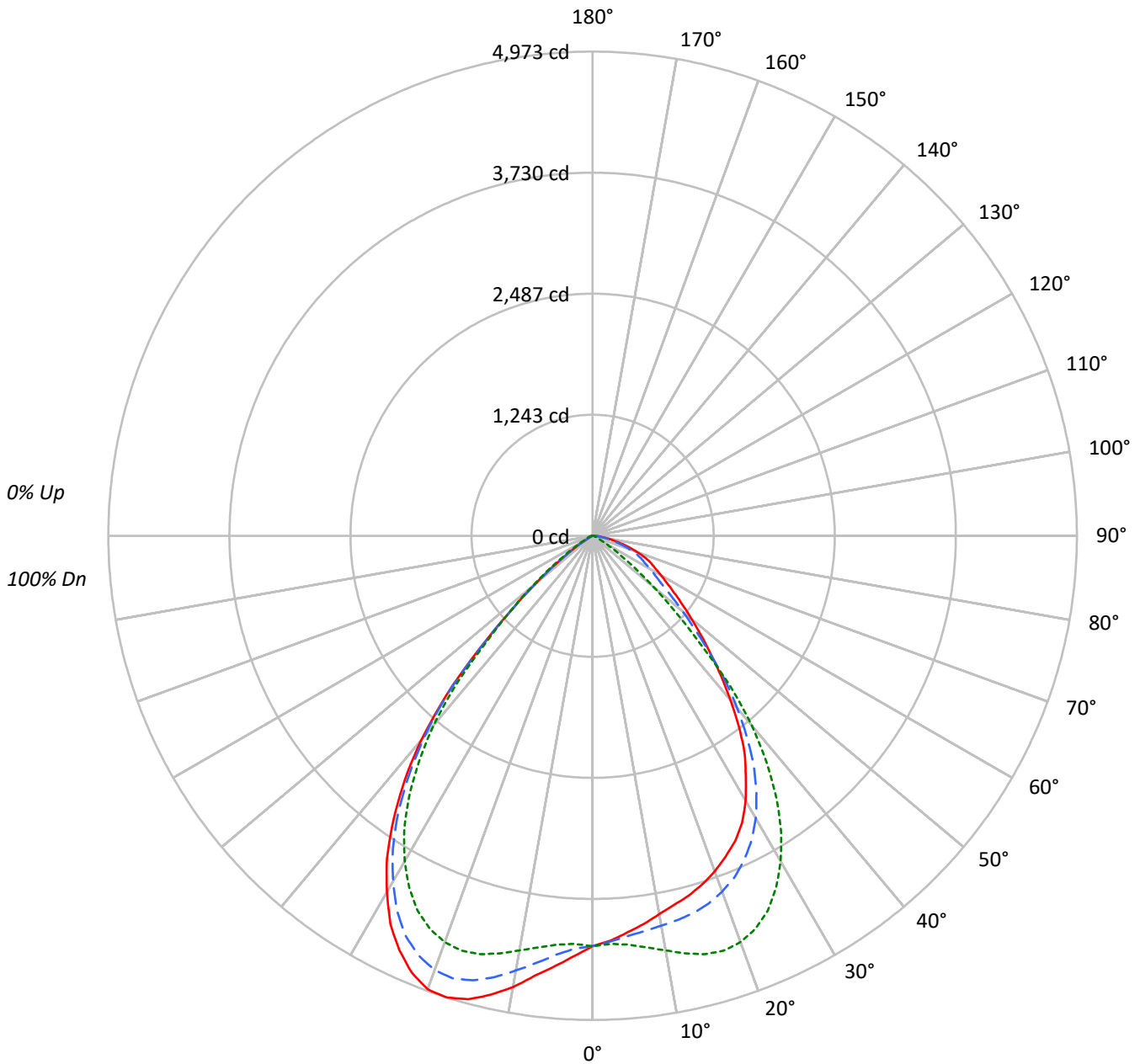
Input Watts (W): 79.45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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°	275002	275002	275002
5°	267873	276053	290572
10°	261358	286452	311818
15°	258301	300495	332881
20°	254605	308321	344132
25°	249191	306045	337955
30°	236795	290832	318155
35°	216648	262220	284043
40°	187390	216559	233039
45°	158021	142031	152439
50°	134158	82212	77300
55°	116428	39424	29789
60°	105168	18398	7359
65°	102025	10575	2485
70°	91484	8450	2308
75°	75167	6100	1008
80°	56018	3043	0
85°	48282	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.2	5.3
10°-20°	1240.9	16.1
20°-30°	1895.9	24.6
30°-40°	1983.0	25.7
40°-50°	1286.4	16.7
50°-60°	510.8	6.6
60°-70°	242.3	3.1
70°-80°	115.2	1.5
80°-90°	23.5	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°	3543.9	46.0
0°-40°	5526.9	71.7
0°-60°	7324.0	95.1
0°-90°	7705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7705.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4215	4215	4215	4215	4215	
5°	4090	4127	4215	4320	4437	386
15°	3824	4010	4449	4727	4928	1078
25°	3462	3679	4252	4538	4695	1585
35°	2720	2885	3292	3486	3566	1682
45°	1713	1697	1539	1632	1652	1333
55°	1024	870	347	270	262	927
65°	661	548	68	16	16	646
75°	298	242	24	8	4	322
85°	64	40	0	0	0	75
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°	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2
2.5°	4162.9	4170.9	4126.6	4114.5	4146.7	4158.8	4162.9	4150.8	4154.8	4170.9	4170.9
5°	4090.3	4098.4	4058.1	4046.0	4078.2	4086.3	4098.4	4094.3	4106.4	4130.6	4126.6
7.5°	4021.8	4033.9	3989.6	3973.5	4013.7	4033.9	4042.0	4042.0	4058.1	4090.3	4094.3
10°	3945.2	3961.4	3921.1	3913.0	3957.3	3977.5	3981.5	3989.6	4013.7	4058.1	4066.1
12.5°	3880.8	3896.9	3868.7	3856.6	3904.9	3925.1	3933.2	3949.3	3977.5	4033.9	4042.0
15°	3824.3	3836.4	3804.2	3796.1	3844.5	3868.7	3872.7	3896.9	3933.2	3997.6	4009.7
17.5°	3751.8	3759.9	3735.7	3727.6	3776.0	3800.2	3804.2	3832.4	3876.7	3941.2	3961.4
20°	3667.2	3675.2	3651.1	3643.0	3691.4	3719.6	3723.6	3747.8	3800.2	3868.7	3888.8
22.5°	3566.4	3582.6	3554.3	3546.3	3594.6	3618.8	3630.9	3651.1	3703.4	3772.0	3800.2
25°	3461.7	3461.7	3441.5	3437.5	3481.8	3510.0	3506.0	3534.2	3586.6	3655.1	3679.3
27.5°	3324.6	3320.6	3300.5	3296.4	3344.8	3369.0	3360.9	3389.1	3437.5	3506.0	3530.2
30°	3143.3	3151.4	3123.1	3115.1	3155.4	3195.7	3191.7	3219.9	3268.2	3332.7	3348.8
32.5°	2925.7	2933.7	2929.7	2917.6	2953.9	2974.0	2986.1	3006.3	3046.6	3115.1	3131.2
35°	2720.2	2708.1	2692.0	2692.0	2728.2	2760.5	2748.4	2772.5	2812.8	2881.4	2885.4
37.5°	2466.3	2462.2	2454.2	2446.1	2486.4	2494.5	2498.5	2514.6	2550.9	2607.3	2599.3
40°	2200.3	2204.3	2200.3	2184.2	2208.4	2240.6	2236.6	2244.6	2276.9	2317.2	2305.1
42.5°	1950.5	1950.5	1950.5	1934.3	1962.5	1978.7	1986.7	1982.7	1990.8	2027.0	2010.9
45°	1712.7	1716.7	1712.7	1708.7	1712.7	1720.8	1712.7	1708.7	1708.7	1720.8	1696.6
47.5°	1507.2	1507.2	1495.1	1483.0	1495.1	1499.1	1487.0	1474.9	1470.9	1466.9	1426.6
50°	1321.8	1317.8	1313.7	1293.6	1305.7	1309.7	1293.6	1285.5	1269.4	1249.3	1200.9
52.5°	1160.6	1156.6	1152.5	1132.4	1140.5	1144.5	1128.4	1112.2	1092.1	1076.0	1015.5
55°	1023.6	1019.6	1019.6	1007.5	999.4	1007.5	991.3	979.3	951.0	930.9	870.5
57.5°	906.7	906.7	898.7	886.6	890.6	890.6	874.5	858.4	834.2	810.0	761.6
60°	806.0	806.0	806.0	793.9	793.9	793.9	785.8	769.7	749.6	725.4	677.0
62.5°	725.4	725.4	721.3	709.3	713.3	713.3	705.2	689.1	669.0	652.8	604.5
65°	660.9	660.9	660.9	648.8	648.8	652.8	644.8	628.7	612.5	592.4	548.1
67.5°	580.3	576.3	576.3	568.2	572.2	576.3	568.2	556.1	536.0	523.9	483.6
70°	479.6	483.6	487.6	475.5	479.6	479.6	475.5	463.4	451.3	439.3	403.0
72.5°	390.9	390.9	386.9	382.8	382.8	386.9	378.8	366.7	358.7	350.6	322.4
75°	298.2	294.2	298.2	290.2	290.2	290.2	282.1	278.1	274.0	261.9	241.8
77.5°	217.6	213.6	213.6	205.5	209.6	209.6	205.5	197.5	189.4	185.4	169.3
80°	149.1	149.1	149.1	145.1	145.1	141.0	141.0	137.0	129.0	124.9	116.9
82.5°	100.7	100.7	100.7	96.7	96.7	96.7	92.7	88.7	84.6	80.6	72.5
85°	64.5	64.5	64.5	60.4	60.4	60.4	56.4	56.4	52.4	48.4	40.3
87.5°	36.3	36.3	36.3	32.2	32.2	32.2	32.2	32.2	28.2	24.2	20.1
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°	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2
2.5°	4199.1	4142.7	4179.0	4179.0	4166.9	4199.1	4219.3	4235.4	4231.4	4195.1	4191.1
5°	4166.9	4118.5	4158.8	4162.9	4150.8	4195.1	4223.3	4243.5	4247.5	4215.2	4219.3
7.5°	4142.7	4102.4	4154.8	4170.9	4166.9	4207.2	4239.4	4271.7	4287.8	4263.6	4267.6
10°	4130.6	4098.4	4154.8	4179.0	4183.0	4227.3	4275.7	4320.0	4340.2	4324.0	4336.1
12.5°	4114.5	4094.3	4158.8	4195.1	4211.2	4255.5	4316.0	4368.4	4400.6	4392.6	4416.7
15°	4098.4	4082.3	4158.8	4211.2	4231.4	4271.7	4340.2	4416.7	4453.0	4449.0	4481.2
17.5°	4058.1	4054.0	4134.6	4191.1	4219.3	4267.6	4332.1	4424.8	4461.1	4469.1	4509.4
20°	3993.6	3993.6	4082.3	4142.7	4174.9	4219.3	4299.9	4388.5	4432.9	4440.9	4485.2
22.5°	3904.9	3913.0	3997.6	4058.1	4106.4	4138.7	4223.3	4316.0	4356.3	4368.4	4416.7
25°	3788.1	3796.1	3876.7	3937.2	3989.6	4025.8	4106.4	4191.1	4239.4	4251.5	4287.8
27.5°	3634.9	3651.1	3727.6	3788.1	3832.4	3856.6	3941.2	4029.9	4066.1	4078.2	4114.5
30°	3457.6	3461.7	3538.2	3590.6	3634.9	3655.1	3727.6	3820.3	3848.5	3860.6	3913.0
32.5°	3240.0	3236.0	3308.5	3356.9	3393.1	3417.3	3493.9	3554.3	3582.6	3602.7	3630.9
35°	2978.1	2974.0	3026.4	3082.8	3111.1	3119.1	3195.7	3260.2	3276.3	3292.4	3328.7
37.5°	2683.9	2683.9	2728.2	2756.4	2788.7	2800.8	2837.0	2909.6	2937.8	2933.7	2962.0
40°	2373.6	2357.5	2389.7	2417.9	2426.0	2430.0	2466.3	2522.7	2542.8	2542.8	2563.0
42.5°	2047.2	2023.0	2027.0	2043.1	2051.2	2023.0	2047.2	2083.4	2071.4	2087.5	2091.5
45°	1700.6	1664.3	1648.2	1611.9	1620.0	1591.8	1575.7	1583.7	1579.7	1539.4	1547.5
47.5°	1418.5	1354.0	1325.8	1273.4	1261.3	1229.1	1209.0	1172.7	1140.5	1140.5	1120.3
50°	1180.8	1116.3	1059.9	999.4	979.3	951.0	906.7	858.4	834.2	810.0	789.9
52.5°	991.3	922.8	854.3	789.9	761.6	725.4	664.9	616.6	572.2	548.1	523.9
55°	838.2	761.6	689.1	620.6	584.3	548.1	487.6	431.2	378.8	346.6	326.4
57.5°	721.3	648.8	572.2	499.7	467.5	427.2	362.7	302.2	253.9	217.6	197.5
60°	636.7	564.2	495.7	419.1	386.9	346.6	278.1	221.6	173.3	141.0	116.9
62.5°	564.2	499.7	427.2	358.7	326.4	286.1	221.6	165.2	120.9	88.7	68.5
65°	511.8	447.3	386.9	318.4	290.2	249.9	189.4	137.0	96.7	68.5	48.4
67.5°	451.3	394.9	334.5	278.1	249.9	217.6	161.2	116.9	80.6	56.4	40.3
70°	378.8	334.5	282.1	229.7	209.6	181.3	133.0	96.7	64.5	44.3	32.2
72.5°	302.2	266.0	225.7	185.4	169.3	141.0	108.8	76.6	48.4	32.2	24.2
75°	229.7	201.5	169.3	141.0	124.9	108.8	80.6	56.4	36.3	24.2	16.1
77.5°	157.2	145.1	120.9	96.7	88.7	76.6	52.4	36.3	24.2	16.1	8.1
80°	108.8	96.7	80.6	64.5	56.4	48.4	32.2	24.2	12.1	8.1	4.0
82.5°	68.5	56.4	48.4	40.3	36.3	28.2	20.1	12.1	8.1	4.0	4.0
85°	36.3	32.2	28.2	20.1	20.1	16.1	12.1	8.1	4.0	0.0	0.0
87.5°	20.1	16.1	12.1	8.1	8.1	4.0	4.0	4.0	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2
2.5°	4239.4	4239.4	4235.4	4283.8	4227.3	4283.8	4255.5	4283.8	4243.5	4239.4	4243.5
5°	4271.7	4283.8	4287.8	4332.1	4279.7	4348.2	4324.0	4348.2	4320.0	4328.1	4340.2
7.5°	4336.1	4356.3	4352.3	4408.7	4356.3	4432.9	4416.7	4453.0	4424.8	4432.9	4449.0
10°	4408.7	4432.9	4436.9	4493.3	4444.9	4537.6	4517.5	4557.8	4533.6	4545.7	4565.8
12.5°	4493.3	4521.5	4525.5	4590.0	4537.6	4634.3	4622.3	4662.6	4642.4	4654.5	4678.7
15°	4557.8	4598.1	4606.1	4670.6	4614.2	4714.9	4706.9	4759.3	4727.0	4747.2	4767.3
17.5°	4590.0	4626.3	4642.4	4702.9	4654.5	4755.2	4747.2	4791.5	4767.3	4787.5	4811.7
20°	4569.9	4614.2	4626.3	4686.7	4638.4	4739.1	4727.0	4771.4	4747.2	4763.3	4787.5
22.5°	4497.3	4541.7	4557.8	4614.2	4569.9	4662.6	4658.5	4698.8	4666.6	4686.7	4706.9
25°	4368.4	4416.7	4424.8	4477.2	4428.8	4525.5	4517.5	4561.8	4537.6	4549.7	4577.9
27.5°	4183.0	4239.4	4251.5	4295.8	4259.6	4340.2	4340.2	4376.4	4348.2	4348.2	4376.4
30°	3961.4	4017.8	4025.8	4062.1	4029.9	4102.4	4106.4	4142.7	4098.4	4122.6	4126.6
32.5°	3691.4	3727.6	3751.8	3784.0	3735.7	3828.4	3816.3	3844.5	3820.3	3820.3	3840.5
35°	3364.9	3409.3	3421.4	3461.7	3421.4	3493.9	3493.9	3510.0	3485.8	3485.8	3518.1
37.5°	3010.3	3042.6	3046.6	3086.9	3054.6	3115.1	3111.1	3123.1	3099.0	3115.1	3115.1
40°	2595.2	2619.4	2627.5	2647.6	2643.6	2687.9	2683.9	2692.0	2679.9	2683.9	2692.0
42.5°	2111.7	2143.9	2160.0	2176.1	2152.0	2212.4	2200.3	2212.4	2208.4	2212.4	2224.5
45°	1555.5	1579.7	1591.8	1595.8	1587.8	1624.0	1652.2	1628.1	1632.1	1624.0	1640.2
47.5°	1124.3	1128.4	1120.3	1144.5	1124.3	1140.5	1148.5	1152.5	1128.4	1124.3	1140.5
50°	769.7	789.9	761.6	773.7	769.7	785.8	777.8	781.8	757.6	769.7	761.6
52.5°	511.8	507.8	499.7	503.7	495.7	495.7	495.7	503.7	487.6	479.6	471.5
55°	310.3	302.2	286.1	282.1	282.1	286.1	278.1	270.0	270.0	266.0	266.0
57.5°	181.3	169.3	161.2	157.2	149.1	145.1	141.0	141.0	133.0	133.0	133.0
60°	100.7	88.7	80.6	72.5	72.5	68.5	64.5	60.4	60.4	60.4	56.4
62.5°	52.4	44.3	36.3	32.2	32.2	28.2	24.2	24.2	24.2	24.2	20.1
65°	36.3	28.2	24.2	20.1	20.1	16.1	16.1	16.1	16.1	16.1	16.1
67.5°	28.2	24.2	20.1	16.1	16.1	16.1	12.1	12.1	12.1	12.1	12.1
70°	24.2	16.1	16.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
72.5°	16.1	16.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
75°	12.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	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: P252226

CATALOG NUMBER: LD6B70D010TE EU6B60709030 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2	4215.2
2.5°	4279.7	4275.7	4279.7	4287.8	4271.7	4320.0	4295.8	4320.0
5°	4372.4	4376.4	4380.5	4392.6	4372.4	4432.9	4400.6	4436.9
7.5°	4493.3	4497.3	4501.4	4513.5	4501.4	4561.8	4525.5	4557.8
10°	4618.2	4626.3	4626.3	4646.4	4634.3	4690.8	4666.6	4706.9
12.5°	4735.1	4743.2	4751.2	4763.3	4755.2	4815.7	4795.5	4827.8
15°	4827.8	4843.9	4847.9	4864.1	4856.0	4920.5	4896.3	4928.5
17.5°	4872.1	4888.2	4888.2	4908.4	4900.3	4968.8	4936.6	4972.9
20°	4847.9	4860.0	4864.1	4884.2	4876.1	4944.6	4912.4	4956.7
22.5°	4771.4	4775.4	4779.4	4799.6	4795.5	4856.0	4827.8	4856.0
25°	4630.3	4642.4	4638.4	4654.5	4654.5	4702.9	4670.6	4694.8
27.5°	4428.8	4440.9	4440.9	4461.1	4444.9	4493.3	4461.1	4497.3
30°	4183.0	4195.1	4187.0	4203.2	4187.0	4235.4	4211.2	4223.3
32.5°	3888.8	3888.8	3892.9	3896.9	3888.8	3933.2	3909.0	3933.2
35°	3538.2	3546.3	3550.3	3554.3	3546.3	3578.5	3550.3	3566.4
37.5°	3143.3	3163.4	3159.4	3163.4	3151.4	3191.7	3167.5	3175.5
40°	2720.2	2720.2	2716.1	2724.2	2712.1	2744.3	2728.2	2736.3
42.5°	2228.5	2240.6	2224.5	2244.6	2212.4	2256.7	2240.6	2228.5
45°	1672.4	1656.3	1652.2	1656.3	1644.2	1648.2	1660.3	1652.2
47.5°	1140.5	1140.5	1132.4	1120.3	1136.4	1140.5	1124.3	1124.3
50°	765.7	765.7	757.6	753.6	761.6	757.6	749.6	761.6
52.5°	487.6	471.5	471.5	479.6	471.5	463.4	475.5	467.5
55°	266.0	257.9	257.9	266.0	257.9	257.9	253.9	261.9
57.5°	129.0	133.0	129.0	129.0	129.0	129.0	124.9	129.0
60°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
62.5°	24.2	24.2	20.1	20.1	20.1	20.1	20.1	20.1
65°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
67.5°	12.1	12.1	12.1	12.1	12.1	16.1	12.1	12.1
70°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
72.5°	12.1	12.1	16.1	16.1	16.1	16.1	16.1	16.1
75°	8.1	8.1	8.1	4.0	4.0	4.0	4.0	4.0
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)