

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: P252229

Luminaire Tested: **LD6B70D010TE EU6B60709050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252229
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 EU6B60709050 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7863.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

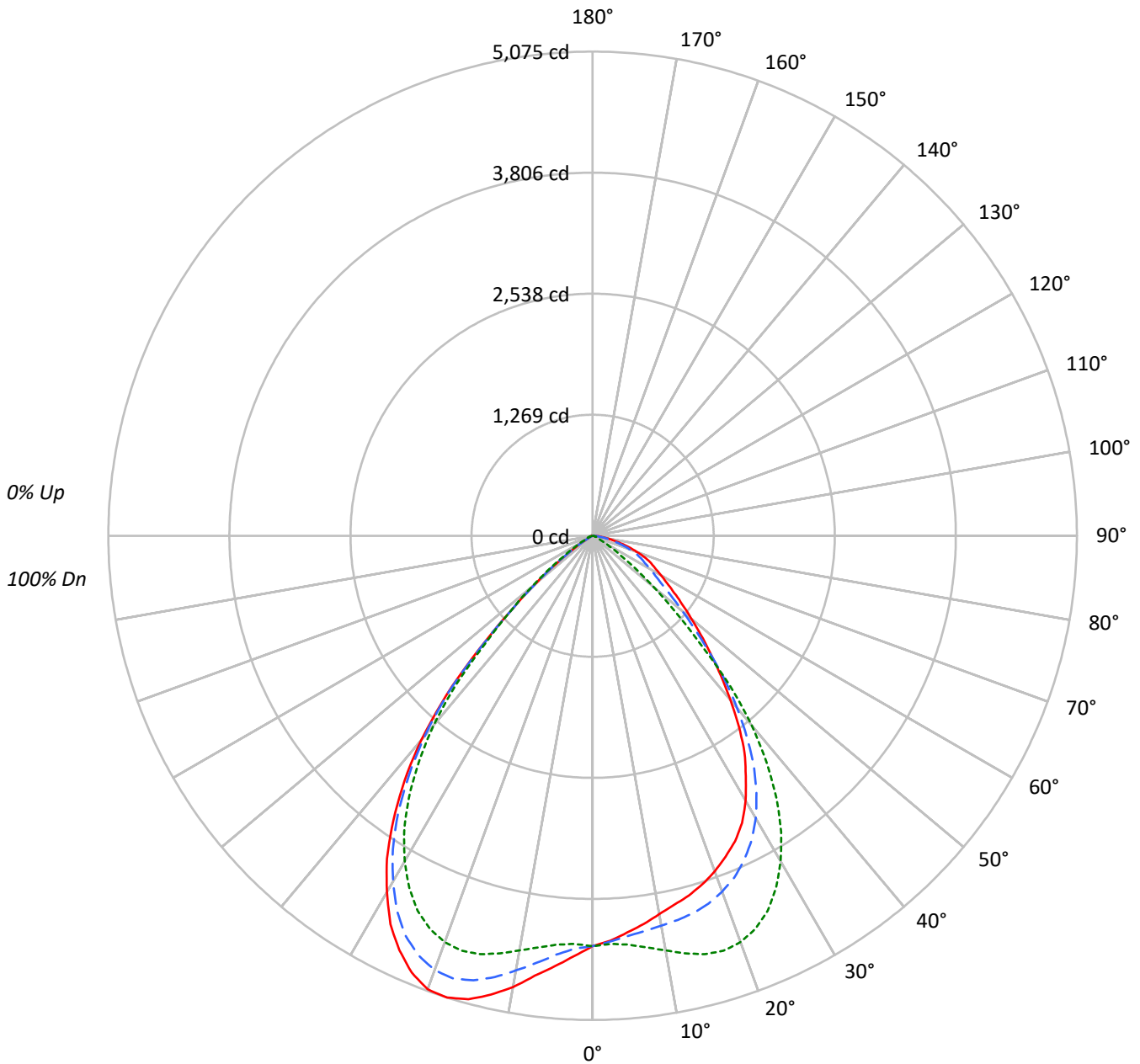
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252229

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBSW1LI

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°	280646	280646	280646
5°	273368	281718	296531
10°	266717	292328	318211
15°	263603	306654	339710
20°	259826	314646	351193
25°	254294	312322	344888
30°	241654	296798	324679
35°	221084	267596	289873
40°	191231	221005	237816
45°	161259	144947	155567
50°	136908	83897	78893
55°	118817	40231	30404
60°	107321	18776	7516
65°	104124	10791	2547
70°	93353	8622	2346
75°	76705	6226	1033
80°	57182	3081	0
85°	49255	0	0



TEST NUMBER: P252229

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.5	5.3
10°-20°	1266.3	16.1
20°-30°	1934.8	24.6
30°-40°	2023.6	25.7
40°-50°	1312.7	16.7
50°-60°	521.2	6.6
60°-70°	247.3	3.1
70°-80°	117.6	1.5
80°-90°	24.0	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°	3616.6	46.0
0°-40°	5640.2	71.7
0°-60°	7474.2	95.1
0°-90°	7863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7863.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4302	4302	4302	4302	4302	
5°	4174	4211	4302	4409	4528	394
15°	3903	4092	4540	4824	5030	1100
25°	3533	3755	4339	4631	4791	1618
35°	2776	2945	3360	3557	3640	1717
45°	1748	1731	1571	1666	1686	1360
55°	1045	888	354	276	267	946
65°	674	559	70	16	16	659
75°	304	247	25	8	4	328
85°	66	41	0	0	0	77
90°	0	0	0	0	0	



TEST NUMBER: P252229

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7
2.5°	4248.2	4256.4	4211.2	4198.9	4231.8	4244.1	4248.2	4235.9	4240.0	4256.4	4256.4
5°	4174.2	4182.4	4141.3	4129.0	4161.9	4170.1	4182.4	4178.3	4190.6	4215.3	4211.2
7.5°	4104.3	4116.6	4071.4	4054.9	4096.1	4116.6	4124.8	4124.8	4141.3	4174.2	4178.3
10°	4026.1	4042.6	4001.5	3993.2	4038.5	4059.0	4063.2	4071.4	4096.1	4141.3	4149.5
12.5°	3960.3	3976.8	3948.0	3935.7	3985.0	4005.6	4013.8	4030.3	4059.0	4116.6	4124.8
15°	3902.8	3915.1	3882.2	3874.0	3923.3	3948.0	3952.1	3976.8	4013.8	4079.6	4091.9
17.5°	3828.7	3837.0	3812.3	3804.1	3853.4	3878.1	3882.2	3911.0	3956.2	4022.0	4042.6
20°	3742.4	3750.6	3725.9	3717.7	3767.1	3795.8	3800.0	3824.6	3878.1	3948.0	3968.6
22.5°	3639.6	3656.0	3627.2	3619.0	3668.4	3693.0	3705.4	3725.9	3779.4	3849.3	3878.1
25°	3532.6	3532.6	3512.1	3508.0	3553.2	3582.0	3577.9	3606.7	3660.1	3730.0	3754.7
27.5°	3392.8	3388.7	3368.1	3364.0	3413.4	3438.1	3429.8	3458.6	3508.0	3577.9	3602.6
30°	3207.8	3216.0	3187.2	3179.0	3220.1	3261.2	3257.1	3285.9	3335.2	3401.0	3417.5
32.5°	2985.7	2993.9	2989.8	2977.5	3014.5	3035.0	3047.4	3067.9	3109.1	3179.0	3195.4
35°	2775.9	2763.6	2747.2	2747.2	2784.2	2817.1	2804.7	2829.4	2870.5	2940.4	2944.6
37.5°	2516.9	2512.7	2504.5	2496.3	2537.4	2545.6	2549.8	2566.2	2603.2	2660.8	2652.6
40°	2245.4	2249.5	2245.4	2229.0	2253.7	2286.6	2282.4	2290.7	2323.6	2364.7	2352.4
42.5°	1990.5	1990.5	1990.5	1974.0	2002.8	2019.2	2027.5	2023.4	2031.6	2068.6	2052.1
45°	1747.8	1751.9	1747.8	1743.7	1747.8	1756.0	1747.8	1743.7	1743.7	1756.0	1731.4
47.5°	1538.1	1538.1	1525.7	1513.4	1525.7	1529.9	1517.5	1505.2	1501.1	1497.0	1455.8
50°	1348.9	1344.8	1340.7	1320.1	1332.5	1336.6	1320.1	1311.9	1295.4	1274.9	1225.5
52.5°	1184.4	1180.3	1176.2	1155.6	1163.8	1168.0	1151.5	1135.1	1114.5	1098.0	1036.4
55°	1044.6	1040.5	1040.5	1028.1	1019.9	1028.1	1011.7	999.3	970.6	950.0	888.3
57.5°	925.3	925.3	917.1	904.8	908.9	908.9	892.4	876.0	851.3	826.6	777.3
60°	822.5	822.5	822.5	810.2	810.2	810.2	801.9	785.5	764.9	740.3	690.9
62.5°	740.3	740.3	736.1	723.8	727.9	727.9	719.7	703.2	682.7	666.2	616.9
65°	674.5	674.5	674.5	662.1	662.1	666.2	658.0	641.6	625.1	604.5	559.3
67.5°	592.2	588.1	588.1	579.9	584.0	588.1	579.9	567.5	547.0	534.6	493.5
70°	489.4	493.5	497.6	485.3	489.4	489.4	485.3	472.9	460.6	448.3	411.3
72.5°	398.9	398.9	394.8	390.7	390.7	394.8	386.6	374.2	366.0	357.8	329.0
75°	304.3	300.2	304.3	296.1	296.1	296.1	287.9	283.8	279.7	267.3	246.8
77.5°	222.1	218.0	218.0	209.7	213.9	213.9	209.7	201.5	193.3	189.2	172.7
80°	152.2	152.2	152.2	148.1	148.1	143.9	143.9	139.8	131.6	127.5	119.3
82.5°	102.8	102.8	102.8	98.7	98.7	98.7	94.6	90.5	86.4	82.3	74.0
85°	65.8	65.8	65.8	61.7	61.7	61.7	57.6	57.6	53.5	49.4	41.1
87.5°	37.0	37.0	37.0	32.9	32.9	32.9	32.9	32.9	28.8	24.7	20.6
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: P252229

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7
2.5°	4285.2	4227.7	4264.7	4264.7	4252.3	4285.2	4305.8	4322.2	4318.1	4281.1	4277.0
5°	4252.3	4203.0	4244.1	4248.2	4235.9	4281.1	4309.9	4330.5	4334.6	4301.7	4305.8
7.5°	4227.7	4186.5	4240.0	4256.4	4252.3	4293.5	4326.4	4359.3	4375.7	4351.0	4355.1
10°	4215.3	4182.4	4240.0	4264.7	4268.8	4314.0	4363.4	4408.6	4429.2	4412.7	4425.1
12.5°	4198.9	4178.3	4244.1	4281.1	4297.6	4342.8	4404.5	4458.0	4490.9	4482.6	4507.3
15°	4182.4	4166.0	4244.1	4297.6	4318.1	4359.3	4429.2	4507.3	4544.3	4540.2	4573.1
17.5°	4141.3	4137.2	4219.4	4277.0	4305.8	4355.1	4420.9	4515.5	4552.5	4560.8	4601.9
20°	4075.5	4075.5	4166.0	4227.7	4260.6	4305.8	4388.0	4478.5	4523.8	4532.0	4577.2
22.5°	3985.0	3993.2	4079.6	4141.3	4190.6	4223.5	4309.9	4404.5	4445.6	4458.0	4507.3
25°	3865.8	3874.0	3956.2	4017.9	4071.4	4108.4	4190.6	4277.0	4326.4	4338.7	4375.7
27.5°	3709.5	3725.9	3804.1	3865.8	3911.0	3935.7	4022.0	4112.5	4149.5	4161.9	4198.9
30°	3528.5	3532.6	3610.8	3664.2	3709.5	3730.0	3804.1	3898.7	3927.4	3939.8	3993.2
32.5°	3306.5	3302.3	3376.4	3425.7	3462.7	3487.4	3565.5	3627.2	3656.0	3676.6	3705.4
35°	3039.1	3035.0	3088.5	3146.1	3174.9	3183.1	3261.2	3327.0	3343.5	3359.9	3396.9
37.5°	2738.9	2738.9	2784.2	2813.0	2845.9	2858.2	2895.2	2969.2	2998.0	2993.9	3022.7
40°	2422.3	2405.8	2438.7	2467.5	2475.7	2479.8	2516.9	2574.4	2595.0	2595.0	2615.6
42.5°	2089.2	2064.5	2068.6	2085.0	2093.3	2064.5	2089.2	2126.2	2113.8	2130.3	2134.4
45°	1735.5	1698.5	1682.0	1645.0	1653.2	1624.4	1608.0	1616.2	1612.1	1571.0	1579.2
47.5°	1447.6	1381.8	1353.0	1299.6	1287.2	1254.3	1233.8	1196.7	1163.8	1163.8	1143.3
50°	1205.0	1139.2	1081.6	1019.9	999.3	970.6	925.3	876.0	851.3	826.6	806.1
52.5°	1011.7	941.8	871.9	806.1	777.3	740.3	678.6	629.2	584.0	559.3	534.6
55°	855.4	777.3	703.2	633.3	596.3	559.3	497.6	440.0	386.6	353.7	333.1
57.5°	736.1	662.1	584.0	510.0	477.1	435.9	370.1	308.4	259.1	222.1	201.5
60°	649.8	575.8	505.8	427.7	394.8	353.7	283.8	226.2	176.8	143.9	119.3
62.5°	575.8	510.0	435.9	366.0	333.1	292.0	226.2	168.6	123.4	90.5	69.9
65°	522.3	456.5	394.8	324.9	296.1	255.0	193.3	139.8	98.7	69.9	49.4
67.5°	460.6	403.0	341.3	283.8	255.0	222.1	164.5	119.3	82.3	57.6	41.1
70°	386.6	341.3	287.9	234.4	213.9	185.1	135.7	98.7	65.8	45.2	32.9
72.5°	308.4	271.4	230.3	189.2	172.7	143.9	111.0	78.1	49.4	32.9	24.7
75°	234.4	205.6	172.7	143.9	127.5	111.0	82.3	57.6	37.0	24.7	16.5
77.5°	160.4	148.1	123.4	98.7	90.5	78.1	53.5	37.0	24.7	16.5	8.2
80°	111.0	98.7	82.3	65.8	57.6	49.4	32.9	24.7	12.3	8.2	4.1
82.5°	69.9	57.6	49.4	41.1	37.0	28.8	20.6	12.3	8.2	4.1	4.1
85°	37.0	32.9	28.8	20.6	20.6	16.5	12.3	8.2	4.1	0.0	0.0
87.5°	20.6	16.5	12.3	8.2	8.2	4.1	4.1	4.1	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: P252229

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7
2.5°	4326.4	4326.4	4322.2	4371.6	4314.0	4371.6	4342.8	4371.6	4330.5	4326.4	4330.5
5°	4359.3	4371.6	4375.7	4420.9	4367.5	4437.4	4412.7	4437.4	4408.6	4416.8	4429.2
7.5°	4425.1	4445.6	4441.5	4499.1	4445.6	4523.8	4507.3	4544.3	4515.5	4523.8	4540.2
10°	4499.1	4523.8	4527.9	4585.4	4536.1	4630.7	4610.1	4651.2	4626.6	4638.9	4659.5
12.5°	4585.4	4614.2	4618.3	4684.1	4630.7	4729.4	4717.0	4758.2	4737.6	4749.9	4774.6
15°	4651.2	4692.4	4700.6	4766.4	4708.8	4811.6	4803.4	4856.9	4824.0	4844.5	4865.1
17.5°	4684.1	4721.2	4737.6	4799.3	4749.9	4852.8	4844.5	4889.8	4865.1	4885.7	4910.3
20°	4663.6	4708.8	4721.2	4782.8	4733.5	4836.3	4824.0	4869.2	4844.5	4861.0	4885.7
22.5°	4589.6	4634.8	4651.2	4708.8	4663.6	4758.2	4754.1	4795.2	4762.3	4782.8	4803.4
25°	4458.0	4507.3	4515.5	4569.0	4519.6	4618.3	4610.1	4655.4	4630.7	4643.0	4671.8
27.5°	4268.8	4326.4	4338.7	4383.9	4346.9	4429.2	4429.2	4466.2	4437.4	4437.4	4466.2
30°	4042.6	4100.2	4108.4	4145.4	4112.5	4186.5	4190.6	4227.7	4182.4	4207.1	4211.2
32.5°	3767.1	3804.1	3828.7	3861.6	3812.3	3906.9	3894.5	3923.3	3898.7	3898.7	3919.2
35°	3433.9	3479.2	3491.5	3532.6	3491.5	3565.5	3565.5	3582.0	3557.3	3557.3	3590.2
37.5°	3072.0	3104.9	3109.1	3150.2	3117.3	3179.0	3174.9	3187.2	3162.5	3179.0	3179.0
40°	2648.5	2673.1	2681.4	2701.9	2697.8	2743.0	2738.9	2747.2	2734.8	2738.9	2747.2
42.5°	2155.0	2187.9	2204.3	2220.8	2196.1	2257.8	2245.4	2257.8	2253.7	2257.8	2270.1
45°	1587.4	1612.1	1624.4	1628.6	1620.3	1657.3	1686.1	1661.5	1665.6	1657.3	1673.8
47.5°	1147.4	1151.5	1143.3	1168.0	1147.4	1163.8	1172.1	1176.2	1151.5	1147.4	1163.8
50°	785.5	806.1	777.3	789.6	785.5	801.9	793.7	797.8	773.2	785.5	777.3
52.5°	522.3	518.2	510.0	514.1	505.8	505.8	505.8	514.1	497.6	489.4	481.2
55°	316.7	308.4	292.0	287.9	287.9	292.0	283.8	275.5	275.5	271.4	271.4
57.5°	185.1	172.7	164.5	160.4	152.2	148.1	143.9	143.9	135.7	135.7	135.7
60°	102.8	90.5	82.3	74.0	74.0	69.9	65.8	61.7	61.7	61.7	57.6
62.5°	53.5	45.2	37.0	32.9	32.9	28.8	24.7	24.7	24.7	24.7	20.6
65°	37.0	28.8	24.7	20.6	20.6	16.5	16.5	16.5	16.5	16.5	16.5
67.5°	28.8	24.7	20.6	16.5	16.5	16.5	12.3	12.3	12.3	12.3	12.3
70°	24.7	16.5	16.5	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	16.5	16.5	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
75°	12.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0
80°	4.1	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: P252229

CATALOG NUMBER: LD6B70D010TE EU6B60709050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7	4301.7
2.5°	4367.5	4363.4	4367.5	4375.7	4359.3	4408.6	4383.9	4408.6
5°	4462.1	4466.2	4470.3	4482.6	4462.1	4523.8	4490.9	4527.9
7.5°	4585.4	4589.6	4593.7	4606.0	4593.7	4655.4	4618.3	4651.2
10°	4712.9	4721.2	4721.2	4741.7	4729.4	4787.0	4762.3	4803.4
12.5°	4832.2	4840.4	4848.6	4861.0	4852.8	4914.4	4893.9	4926.8
15°	4926.8	4943.2	4947.3	4963.8	4955.6	5021.4	4996.7	5029.6
17.5°	4972.0	4988.5	4988.5	5009.0	5000.8	5070.7	5037.8	5074.8
20°	4947.3	4959.7	4963.8	4984.4	4976.1	5046.0	5013.1	5058.4
22.5°	4869.2	4873.3	4877.4	4898.0	4893.9	4955.6	4926.8	4955.6
25°	4725.3	4737.6	4733.5	4749.9	4749.9	4799.3	4766.4	4791.1
27.5°	4519.6	4532.0	4532.0	4552.5	4536.1	4585.4	4552.5	4589.6
30°	4268.8	4281.1	4272.9	4289.3	4272.9	4322.2	4297.6	4309.9
32.5°	3968.6	3968.6	3972.7	3976.8	3968.6	4013.8	3989.1	4013.8
35°	3610.8	3619.0	3623.1	3627.2	3619.0	3651.9	3623.1	3639.6
37.5°	3207.8	3228.3	3224.2	3228.3	3216.0	3257.1	3232.4	3240.7
40°	2775.9	2775.9	2771.8	2780.1	2767.7	2800.6	2784.2	2792.4
42.5°	2274.2	2286.6	2270.1	2290.7	2257.8	2303.0	2286.6	2274.2
45°	1706.7	1690.2	1686.1	1690.2	1677.9	1682.0	1694.4	1686.1
47.5°	1163.8	1163.8	1155.6	1143.3	1159.7	1163.8	1147.4	1147.4
50°	781.4	781.4	773.2	769.0	777.3	773.2	764.9	777.3
52.5°	497.6	481.2	481.2	489.4	481.2	472.9	485.3	477.1
55°	271.4	263.2	263.2	271.4	263.2	263.2	259.1	267.3
57.5°	131.6	135.7	131.6	131.6	131.6	131.6	127.5	131.6
60°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
62.5°	24.7	24.7	20.6	20.6	20.6	20.6	20.6	20.6
65°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
67.5°	12.3	12.3	12.3	12.3	12.3	16.5	12.3	12.3
70°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	12.3	12.3	16.5	16.5	16.5	16.5	16.5	16.5
75°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1
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)