

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: PORTFOLIO

Report Number: P252212

Luminaire Tested: **LE_6B60D010R EC6B60709027 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252212
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: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60709027 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7805.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

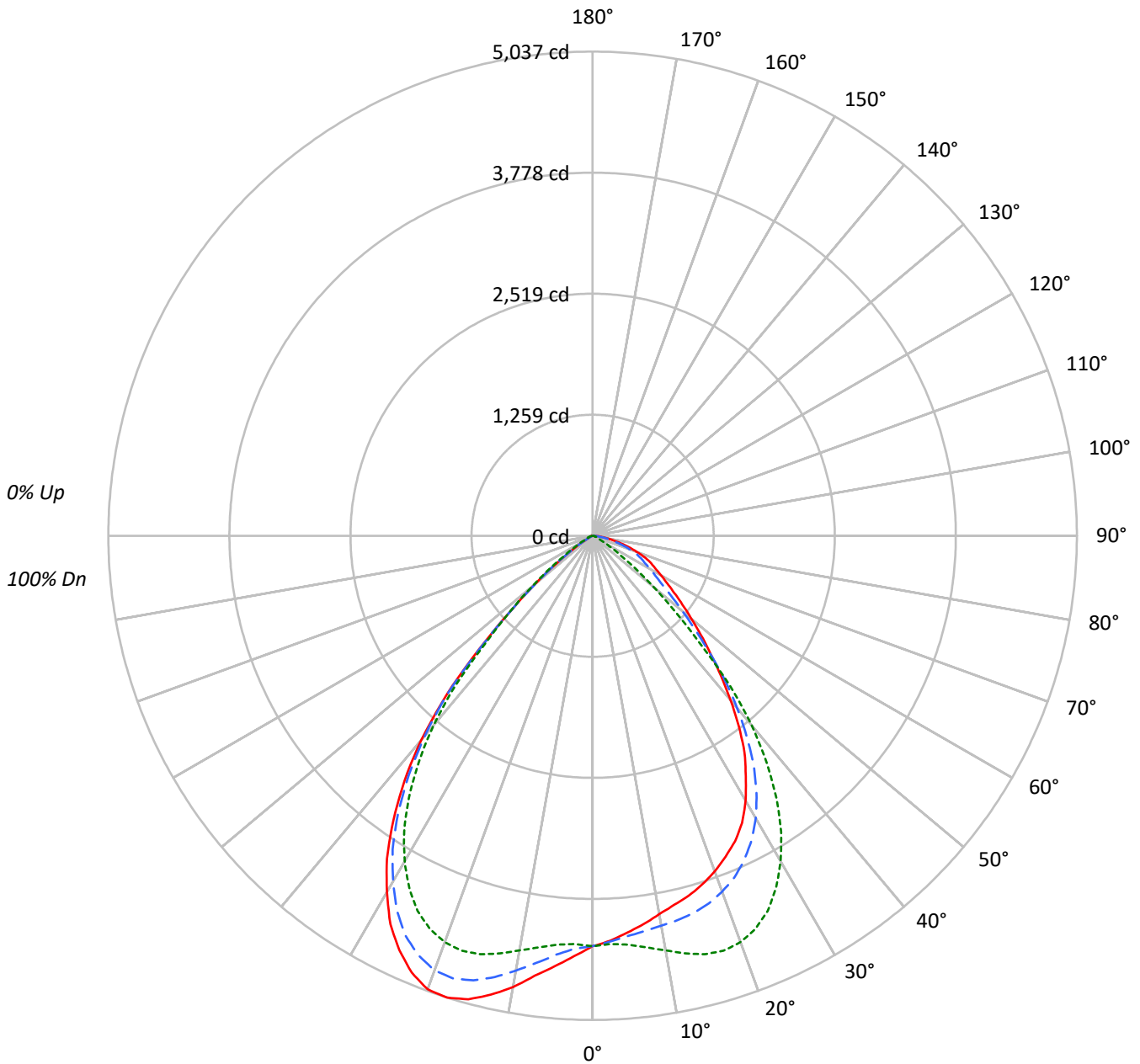
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	278577	278577	278577
5°	271351	279642	294344
10°	264756	290169	315866
15°	261658	304399	337204
20°	257910	312320	348603
25°	252423	310025	342347
30°	239869	294614	322284
35°	219459	265621	287738
40°	189826	219378	236062
45°	160069	143877	154432
50°	135904	83278	78304
55°	117941	39935	30188
60°	106525	18646	7450
65°	103352	10713	2532
70°	92667	8565	2327
75°	76150	6176	1033
80°	56732	3043	0
85°	48955	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	5.3
10°-20°	1257.0	16.1
20°-30°	1920.5	24.6
30°-40°	2008.7	25.7
40°-50°	1303.0	16.7
50°-60°	517.4	6.6
60°-70°	245.4	3.1
70°-80°	116.7	1.5
80°-90°	23.8	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°	3589.9	46.0
0°-40°	5598.6	71.7
0°-60°	7419.0	95.1
0°-90°	7805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7805.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4270	4270	4270	4270	4270	
5°	4143	4180	4270	4376	4494	391
15°	3874	4062	4507	4788	4992	1092
25°	3507	3727	4307	4596	4756	1606
35°	2756	2923	3335	3531	3613	1704
45°	1735	1719	1559	1653	1674	1350
55°	1037	882	351	274	265	940
65°	670	555	69	16	16	654
75°	302	245	24	8	4	326
85°	65	41	0	0	0	76
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°	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0
2.5°	4216.9	4225.0	4180.1	4167.9	4200.5	4212.8	4216.9	4204.6	4208.8	4225.0	4225.0
5°	4143.4	4151.6	4110.8	4098.5	4131.1	4139.4	4151.6	4147.5	4159.8	4184.2	4180.1
7.5°	4074.0	4086.2	4041.4	4025.0	4065.9	4086.2	4094.4	4094.4	4110.8	4143.4	4147.5
10°	3996.5	4012.8	3972.0	3963.8	4008.8	4029.1	4033.1	4041.4	4065.9	4110.8	4118.9
12.5°	3931.1	3947.5	3918.9	3906.6	3955.6	3976.0	3984.2	4000.5	4029.1	4086.2	4094.4
15°	3874.0	3886.2	3853.6	3845.4	3894.4	3918.9	3923.0	3947.5	3984.2	4049.5	4061.8
17.5°	3800.5	3808.6	3784.1	3776.0	3825.0	3849.5	3853.6	3882.1	3927.0	3992.4	4012.8
20°	3714.8	3723.0	3698.5	3690.2	3739.2	3767.9	3771.9	3796.4	3849.5	3918.9	3939.2
22.5°	3612.8	3629.0	3600.5	3592.2	3641.2	3665.8	3678.0	3698.5	3751.5	3820.9	3849.5
25°	3506.6	3506.6	3486.1	3482.1	3527.0	3555.6	3551.5	3580.1	3633.1	3702.5	3727.0
27.5°	3367.8	3363.8	3343.2	3339.2	3388.2	3412.8	3404.5	3433.1	3482.1	3551.5	3576.0
30°	3184.1	3192.2	3163.6	3155.5	3196.4	3237.1	3233.1	3261.6	3310.6	3376.0	3392.2
32.5°	2963.6	2971.9	2967.8	2955.5	2992.2	3012.6	3024.9	3045.2	3086.1	3155.5	3171.9
35°	2755.5	2743.2	2726.9	2726.9	2763.6	2796.2	2784.0	2808.5	2849.4	2918.8	2922.9
37.5°	2498.2	2494.2	2486.0	2477.9	2518.8	2526.9	2531.0	2547.2	2584.0	2641.1	2633.0
40°	2228.9	2233.0	2228.9	2212.5	2237.0	2269.6	2265.6	2273.8	2306.4	2347.2	2335.0
42.5°	1975.8	1975.8	1975.8	1959.5	1988.0	2004.4	2012.5	2008.4	2016.6	2053.4	2037.0
45°	1734.9	1739.0	1734.9	1730.9	1734.9	1743.1	1734.9	1730.9	1730.9	1743.1	1718.6
47.5°	1526.8	1526.8	1514.5	1502.2	1514.5	1518.6	1506.4	1494.1	1490.0	1485.9	1445.1
50°	1339.0	1334.9	1330.8	1310.4	1322.6	1326.8	1310.4	1302.2	1285.9	1265.5	1216.5
52.5°	1175.6	1171.6	1167.5	1147.1	1155.2	1159.4	1143.0	1126.6	1106.2	1090.0	1028.8
55°	1036.9	1032.8	1032.8	1020.5	1012.4	1020.5	1004.2	992.0	963.4	943.0	881.8
57.5°	918.5	918.5	910.4	898.1	902.1	902.1	885.9	869.5	845.0	820.5	771.5
60°	816.4	816.4	816.4	804.2	804.2	804.2	796.0	779.8	759.2	734.8	685.8
62.5°	734.8	734.8	730.8	718.5	722.5	722.5	714.4	698.0	677.6	661.2	612.4
65°	669.5	669.5	669.5	657.2	657.2	661.2	653.1	636.9	620.5	600.1	555.1
67.5°	587.9	583.8	583.8	575.6	579.6	583.8	575.6	563.4	542.9	530.6	489.9
70°	485.8	489.9	494.0	481.8	485.8	485.8	481.8	469.5	457.2	445.0	408.2
72.5°	396.0	396.0	391.9	387.8	387.8	391.9	383.8	371.5	363.4	355.1	326.6
75°	302.1	298.0	302.1	293.9	293.9	293.9	285.8	281.6	277.6	265.4	244.9
77.5°	220.4	216.4	216.4	208.2	212.2	212.2	208.2	200.0	191.9	187.8	171.5
80°	151.0	151.0	151.0	147.0	147.0	142.9	142.9	138.8	130.6	126.5	118.4
82.5°	102.0	102.0	102.0	98.0	98.0	98.0	93.9	89.8	85.8	81.6	73.5
85°	65.4	65.4	65.4	61.2	61.2	61.2	57.1	57.1	53.1	49.0	40.9
87.5°	36.8	36.8	36.8	32.6	32.6	32.6	32.6	32.6	28.6	24.5	20.4
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°	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0
2.5°	4253.6	4196.5	4233.2	4233.2	4221.0	4253.6	4274.0	4290.4	4286.2	4249.5	4245.5
5°	4221.0	4172.0	4212.8	4216.9	4204.6	4249.5	4278.1	4298.5	4302.6	4270.0	4274.0
7.5°	4196.5	4155.6	4208.8	4225.0	4221.0	4261.8	4294.5	4327.1	4343.4	4318.9	4323.0
10°	4184.2	4151.6	4208.8	4233.2	4237.2	4282.2	4331.1	4376.1	4396.5	4380.1	4392.4
12.5°	4167.9	4147.5	4212.8	4249.5	4265.9	4310.8	4372.0	4425.1	4457.8	4449.6	4474.0
15°	4151.6	4135.2	4212.8	4265.9	4286.2	4327.1	4396.5	4474.0	4510.8	4506.8	4539.4
17.5°	4110.8	4106.6	4188.2	4245.5	4274.0	4323.0	4388.4	4482.2	4519.0	4527.1	4568.0
20°	4045.4	4045.4	4135.2	4196.5	4229.1	4274.0	4355.6	4445.5	4490.4	4498.5	4543.5
22.5°	3955.6	3963.8	4049.5	4110.8	4159.8	4192.4	4278.1	4372.0	4412.9	4425.1	4474.0
25°	3837.2	3845.4	3927.0	3988.2	4041.4	4078.1	4159.8	4245.5	4294.5	4306.8	4343.4
27.5°	3682.1	3698.5	3776.0	3837.2	3882.1	3906.6	3992.4	4082.1	4118.9	4131.1	4167.9
30°	3502.5	3506.6	3584.1	3637.2	3682.1	3702.5	3776.0	3869.9	3898.5	3910.8	3963.8
32.5°	3282.1	3278.0	3351.5	3400.5	3437.2	3461.6	3539.2	3600.5	3629.0	3649.5	3678.0
35°	3016.8	3012.6	3065.8	3122.9	3151.4	3159.6	3237.1	3302.5	3318.8	3335.1	3371.9
37.5°	2718.8	2718.8	2763.6	2792.2	2824.9	2837.1	2873.9	2947.4	2975.9	2971.9	3000.4
40°	2404.4	2388.1	2420.8	2449.2	2457.5	2461.5	2498.2	2555.5	2575.9	2575.9	2596.2
42.5°	2073.8	2049.2	2053.4	2069.6	2077.9	2049.2	2073.8	2110.5	2098.2	2114.6	2118.6
45°	1722.6	1685.9	1669.6	1632.9	1641.0	1612.5	1596.1	1604.2	1600.2	1559.4	1567.5
47.5°	1436.9	1371.6	1343.0	1290.0	1277.8	1245.0	1224.6	1187.9	1155.2	1155.2	1134.9
50°	1196.1	1130.8	1073.6	1012.4	992.0	963.4	918.5	869.5	845.0	820.5	800.1
52.5°	1004.2	934.9	865.4	800.1	771.5	734.8	673.5	624.6	579.6	555.1	530.6
55°	849.1	771.5	698.0	628.6	591.9	555.1	494.0	436.8	383.8	351.1	330.6
57.5°	730.8	657.2	579.6	506.2	473.5	432.8	367.4	306.1	257.1	220.4	200.0
60°	645.0	571.5	502.1	424.5	391.9	351.1	281.6	224.5	175.5	142.9	118.4
62.5°	571.5	506.2	432.8	363.4	330.6	289.9	224.5	167.4	122.5	89.8	69.4
65°	518.4	453.1	391.9	322.5	293.9	253.1	191.9	138.8	98.0	69.4	49.0
67.5°	457.2	400.0	338.9	281.6	253.1	220.4	163.2	118.4	81.6	57.1	40.9
70°	383.8	338.9	285.8	232.6	212.2	183.8	134.8	98.0	65.4	44.9	32.6
72.5°	306.1	269.4	228.6	187.8	171.5	142.9	110.2	77.5	49.0	32.6	24.5
75°	232.6	204.1	171.5	142.9	126.5	110.2	81.6	57.1	36.8	24.5	16.4
77.5°	159.2	147.0	122.5	98.0	89.8	77.5	53.1	36.8	24.5	16.4	8.1
80°	110.2	98.0	81.6	65.4	57.1	49.0	32.6	24.5	12.2	8.1	4.1
82.5°	69.4	57.1	49.0	40.9	36.8	28.6	20.4	12.2	8.1	4.1	4.1
85°	36.8	32.6	28.6	20.4	20.4	16.4	12.2	8.1	4.1	0.0	0.0
87.5°	20.4	16.4	12.2	8.1	8.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0
2.5°	4294.5	4294.5	4290.4	4339.4	4282.2	4339.4	4310.8	4339.4	4298.5	4294.5	4298.5
5°	4327.1	4339.4	4343.4	4388.4	4335.2	4404.6	4380.1	4404.6	4376.1	4384.2	4396.5
7.5°	4392.4	4412.9	4408.8	4465.9	4412.9	4490.4	4474.0	4510.8	4482.2	4490.4	4506.8
10°	4465.9	4490.4	4494.5	4551.6	4502.6	4596.5	4576.1	4616.9	4592.5	4604.8	4625.1
12.5°	4551.6	4580.2	4584.2	4649.6	4596.5	4694.5	4682.2	4723.1	4702.6	4714.9	4739.4
15°	4616.9	4657.8	4665.9	4731.2	4674.1	4776.1	4768.0	4821.0	4788.4	4808.8	4829.2
17.5°	4649.6	4686.4	4702.6	4763.9	4714.9	4817.0	4808.8	4853.8	4829.2	4849.6	4874.1
20°	4629.1	4674.1	4686.4	4747.6	4698.6	4800.6	4788.4	4833.2	4808.8	4825.1	4849.6
22.5°	4555.8	4600.6	4616.9	4674.1	4629.1	4723.1	4719.0	4759.8	4727.1	4747.6	4768.0
25°	4425.1	4474.0	4482.2	4535.2	4486.2	4584.2	4576.1	4621.0	4596.5	4608.8	4637.4
27.5°	4237.2	4294.5	4306.8	4351.6	4314.9	4396.5	4396.5	4433.2	4404.6	4404.6	4433.2
30°	4012.8	4069.9	4078.1	4114.9	4082.1	4155.6	4159.8	4196.5	4151.6	4176.0	4180.1
32.5°	3739.2	3776.0	3800.5	3833.1	3784.1	3878.0	3865.9	3894.4	3869.9	3869.9	3890.2
35°	3408.6	3453.5	3465.8	3506.6	3465.8	3539.2	3539.2	3555.6	3531.1	3531.1	3563.8
37.5°	3049.4	3082.0	3086.1	3127.0	3094.2	3155.5	3151.4	3163.6	3139.2	3155.5	3155.5
40°	2628.9	2653.4	2661.6	2682.0	2677.9	2722.8	2718.8	2726.9	2714.6	2718.8	2726.9
42.5°	2139.0	2171.8	2188.0	2204.4	2179.9	2241.1	2228.9	2241.1	2237.0	2241.1	2253.4
45°	1575.8	1600.2	1612.5	1616.5	1608.4	1645.1	1673.8	1649.2	1653.2	1645.1	1661.5
47.5°	1138.9	1143.0	1134.9	1159.4	1138.9	1155.2	1163.4	1167.5	1143.0	1138.9	1155.2
50°	779.8	800.1	771.5	783.8	779.8	796.0	787.9	792.0	767.5	779.8	771.5
52.5°	518.4	514.4	506.2	510.2	502.1	502.1	502.1	510.2	494.0	485.8	477.6
55°	314.4	306.1	289.9	285.8	285.8	289.9	281.6	273.5	273.5	269.4	269.4
57.5°	183.8	171.5	163.2	159.2	151.0	147.0	142.9	142.9	134.8	134.8	134.8
60°	102.0	89.8	81.6	73.5	73.5	69.4	65.4	61.2	61.2	61.2	57.1
62.5°	53.1	44.9	36.8	32.6	32.6	28.6	24.5	24.5	24.5	24.5	20.4
65°	36.8	28.6	24.5	20.4	20.4	16.4	16.4	16.4	16.4	16.4	16.4
67.5°	28.6	24.5	20.4	16.4	16.4	16.4	12.2	12.2	12.2	12.2	12.2
70°	24.5	16.4	16.4	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
72.5°	16.4	16.4	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	12.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
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: P252212

CATALOG NUMBER: LE_6B60D010R EC6B60709027 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0	4270.0
2.5°	4335.2	4331.1	4335.2	4343.4	4327.1	4376.1	4351.6	4376.1
5°	4429.1	4433.2	4437.4	4449.6	4429.1	4490.4	4457.8	4494.5
7.5°	4551.6	4555.8	4559.8	4572.0	4559.8	4621.0	4584.2	4616.9
10°	4678.1	4686.4	4686.4	4706.8	4694.5	4751.6	4727.1	4768.0
12.5°	4796.5	4804.8	4812.9	4825.1	4817.0	4878.2	4857.8	4890.5
15°	4890.5	4906.8	4910.9	4927.1	4919.0	4984.4	4959.9	4992.5
17.5°	4935.4	4951.6	4951.6	4972.1	4963.9	5033.4	5000.6	5037.4
20°	4910.9	4923.1	4927.1	4947.6	4939.4	5008.9	4976.1	5021.1
22.5°	4833.2	4837.4	4841.5	4861.9	4857.8	4919.0	4890.5	4919.0
25°	4690.4	4702.6	4698.6	4714.9	4714.9	4763.9	4731.2	4755.8
27.5°	4486.2	4498.5	4498.5	4519.0	4502.6	4551.6	4519.0	4555.8
30°	4237.2	4249.5	4241.4	4257.8	4241.4	4290.4	4265.9	4278.1
32.5°	3939.2	3939.2	3943.4	3947.5	3939.2	3984.2	3959.8	3984.2
35°	3584.1	3592.2	3596.4	3600.5	3592.2	3625.0	3596.4	3612.8
37.5°	3184.1	3204.5	3200.4	3204.5	3192.2	3233.1	3208.6	3216.8
40°	2755.5	2755.5	2751.4	2759.5	2747.2	2780.0	2763.6	2771.8
42.5°	2257.5	2269.6	2253.4	2273.8	2241.1	2286.0	2269.6	2257.5
45°	1694.1	1677.8	1673.8	1677.8	1665.5	1669.6	1681.9	1673.8
47.5°	1155.2	1155.2	1147.1	1134.9	1151.1	1155.2	1138.9	1138.9
50°	775.6	775.6	767.5	763.4	771.5	767.5	759.2	771.5
52.5°	494.0	477.6	477.6	485.8	477.6	469.5	481.8	473.5
55°	269.4	261.2	261.2	269.4	261.2	261.2	257.1	265.4
57.5°	130.6	134.8	130.6	130.6	130.6	130.6	126.5	130.6
60°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
62.5°	24.5	24.5	20.4	20.4	20.4	20.4	20.4	20.4
65°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
67.5°	12.2	12.2	12.2	12.2	12.2	16.4	12.2	12.2
70°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
72.5°	12.2	12.2	16.4	16.4	16.4	16.4	16.4	16.4
75°	8.1	8.1	8.1	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)