

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: P252213

Luminaire Tested: **LE_6B60D010R EC6B60709030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252213
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 EC6B60709030 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: 8115.0 lumens
Efficiency: N/A
Efficacy: 129.8 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

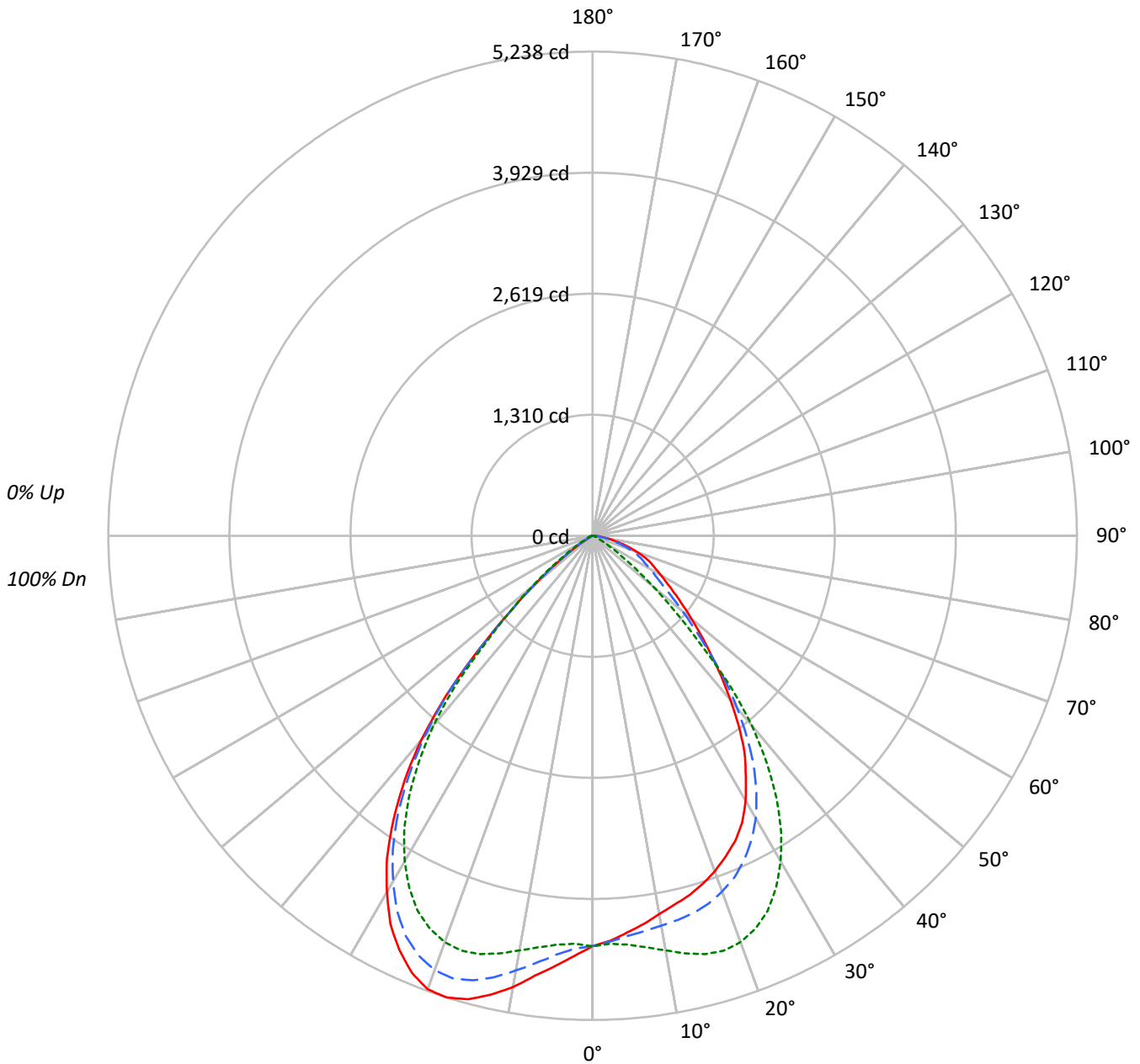
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	289636	289636	289636
5°	282130	290742	306034
10°	275263	301696	328413
15°	272053	316489	350597
20°	268157	324727	362447
25°	262450	322335	355937
30°	249391	306306	335083
35°	228172	276174	299159
40°	197363	228082	245439
45°	166435	149597	160549
50°	141293	86587	81410
55°	122616	41516	31382
60°	110766	19376	7751
65°	107459	11130	2624
70°	96348	8889	2442
75°	79175	6428	1059
80°	58986	3193	0
85°	50827	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	5.3
10°-20°	1306.9	16.1
20°-30°	1996.8	24.6
30°-40°	2088.5	25.7
40°-50°	1354.8	16.7
50°-60°	537.9	6.6
60°-70°	255.2	3.1
70°-80°	121.4	1.5
80°-90°	24.8	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°	3732.5	46.0
0°-40°	5821.0	71.7
0°-60°	7713.7	95.1
0°-90°	8115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8115.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4440	4440	4440	4440	4440	
5°	4308	4346	4440	4550	4673	407
15°	4028	4223	4686	4979	5191	1135
25°	3646	3875	4478	4779	4945	1669
35°	2865	3039	3468	3671	3756	1772
45°	1804	1787	1621	1719	1740	1404
55°	1078	917	365	284	276	977
65°	696	577	72	17	17	680
75°	314	255	26	8	4	339
85°	68	42	0	0	0	79
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°	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5
2.5°	4384.4	4392.9	4346.1	4333.5	4367.4	4380.1	4384.4	4371.6	4375.9	4392.9	4392.9
5°	4308.0	4316.5	4274.0	4261.2	4295.2	4303.8	4316.5	4312.2	4325.0	4350.4	4346.1
7.5°	4235.9	4248.5	4201.9	4184.9	4227.4	4248.5	4257.0	4257.0	4274.0	4308.0	4312.2
10°	4155.1	4172.1	4129.8	4121.2	4167.9	4189.1	4193.4	4201.9	4227.4	4274.0	4282.5
12.5°	4087.2	4104.2	4074.5	4061.8	4112.8	4134.0	4142.5	4159.4	4189.1	4248.5	4257.0
15°	4027.9	4040.6	4006.6	3998.1	4049.1	4074.5	4078.8	4104.2	4142.5	4210.4	4223.1
17.5°	3951.5	3960.0	3934.5	3926.0	3976.9	4002.4	4006.6	4036.4	4083.0	4150.9	4172.1
20°	3862.4	3870.8	3845.4	3836.9	3887.8	3917.5	3921.8	3947.2	4002.4	4074.5	4095.8
22.5°	3756.2	3773.2	3743.5	3735.0	3785.9	3811.4	3824.1	3845.4	3900.5	3972.6	4002.4
25°	3645.9	3645.9	3624.6	3620.4	3667.1	3696.8	3692.5	3722.2	3777.4	3849.6	3875.0
27.5°	3501.5	3497.2	3476.1	3471.9	3522.8	3548.2	3539.8	3569.5	3620.4	3692.5	3718.0
30°	3310.5	3319.0	3289.4	3280.9	3323.2	3365.8	3361.5	3391.2	3442.1	3510.0	3527.0
32.5°	3081.4	3089.9	3085.6	3072.9	3111.1	3132.2	3145.0	3166.2	3208.8	3280.9	3297.9
35°	2864.9	2852.1	2835.2	2835.2	2873.4	2907.4	2894.6	2920.1	2962.5	3034.6	3038.9
37.5°	2597.5	2593.2	2584.8	2576.2	2618.8	2627.2	2631.5	2648.5	2686.6	2746.1	2737.6
40°	2317.4	2321.6	2317.4	2300.4	2325.9	2359.9	2355.6	2364.1	2398.0	2440.5	2427.8
42.5°	2054.2	2054.2	2054.2	2037.2	2067.0	2084.0	2092.5	2088.2	2096.8	2134.9	2117.9
45°	1803.9	1808.1	1803.9	1799.6	1803.9	1812.4	1803.9	1799.6	1799.6	1812.4	1786.9
47.5°	1587.4	1587.4	1574.6	1561.9	1574.6	1578.9	1566.1	1553.4	1549.1	1544.9	1502.5
50°	1392.1	1387.9	1383.6	1362.4	1375.1	1379.4	1362.4	1353.9	1337.0	1315.8	1264.8
52.5°	1222.4	1218.1	1213.9	1192.6	1201.1	1205.4	1188.4	1171.4	1150.2	1133.2	1069.6
55°	1078.0	1073.8	1073.8	1061.1	1052.6	1061.1	1044.1	1031.4	1001.6	980.4	916.8
57.5°	955.0	955.0	946.5	933.8	938.0	938.0	921.0	904.0	878.6	853.1	802.1
60°	848.9	848.9	848.9	836.1	836.1	836.1	827.6	810.6	789.5	764.0	713.0
62.5°	764.0	764.0	759.8	747.0	751.2	751.2	742.8	725.8	704.5	687.6	636.6
65°	696.1	696.1	696.1	683.4	683.4	687.6	679.1	662.1	645.1	623.9	577.2
67.5°	611.1	606.9	606.9	598.5	602.8	606.9	598.5	585.8	564.5	551.8	509.4
70°	505.1	509.4	513.5	500.9	505.1	505.1	500.9	488.1	475.4	462.6	424.4
72.5°	411.8	411.8	407.5	403.2	403.2	407.5	399.0	386.2	377.8	369.2	339.5
75°	314.1	309.9	314.1	305.6	305.6	305.6	297.1	292.9	288.6	275.9	254.6
77.5°	229.2	225.0	225.0	216.5	220.8	220.8	216.5	208.0	199.5	195.2	178.2
80°	157.0	157.0	157.0	152.8	152.8	148.5	148.5	144.2	135.9	131.6	123.1
82.5°	106.1	106.1	106.1	101.9	101.9	101.9	97.6	93.4	89.1	84.9	76.4
85°	67.9	67.9	67.9	63.6	63.6	63.6	59.4	59.4	55.1	50.9	42.5
87.5°	38.2	38.2	38.2	34.0	34.0	34.0	34.0	34.0	29.8	25.5	21.2
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°	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5
2.5°	4422.6	4363.1	4401.4	4401.4	4388.6	4422.6	4443.8	4460.8	4456.5	4418.4	4414.1
5°	4388.6	4337.6	4380.1	4384.4	4371.6	4418.4	4448.0	4469.2	4473.5	4439.5	4443.8
7.5°	4363.1	4320.8	4375.9	4392.9	4388.6	4431.0	4465.0	4499.0	4516.0	4490.5	4494.8
10°	4350.4	4316.5	4375.9	4401.4	4405.6	4452.2	4503.2	4549.9	4571.1	4554.1	4566.9
12.5°	4333.5	4312.2	4380.1	4418.4	4435.2	4482.0	4545.6	4600.9	4634.8	4626.2	4651.8
15°	4316.5	4299.5	4380.1	4435.2	4456.5	4499.0	4571.1	4651.8	4690.0	4685.8	4719.6
17.5°	4274.0	4269.8	4354.6	4414.1	4443.8	4494.8	4562.6	4660.2	4698.5	4706.9	4749.4
20°	4206.1	4206.1	4299.5	4363.1	4397.1	4443.8	4528.6	4622.0	4668.8	4677.2	4723.9
22.5°	4112.8	4121.2	4210.4	4274.0	4325.0	4358.9	4448.0	4545.6	4588.1	4600.9	4651.8
25°	3989.6	3998.1	4083.0	4146.8	4201.9	4240.1	4325.0	4414.1	4465.0	4477.8	4516.0
27.5°	3828.4	3845.4	3926.0	3989.6	4036.4	4061.8	4150.9	4244.2	4282.5	4295.2	4333.5
30°	3641.6	3645.9	3726.5	3781.6	3828.4	3849.6	3926.0	4023.6	4053.4	4066.0	4121.2
32.5°	3412.4	3408.1	3484.6	3535.5	3573.8	3599.1	3679.9	3743.5	3773.2	3794.4	3824.1
35°	3136.5	3132.2	3187.5	3246.9	3276.6	3285.1	3365.8	3433.6	3450.6	3467.6	3505.8
37.5°	2826.8	2826.8	2873.4	2903.1	2937.0	2949.8	2988.0	3064.4	3094.1	3089.9	3119.6
40°	2499.9	2482.9	2516.9	2546.6	2555.1	2559.4	2597.5	2656.9	2678.1	2678.1	2699.4
42.5°	2156.1	2130.6	2134.9	2151.9	2160.4	2130.6	2156.1	2194.2	2181.6	2198.5	2202.8
45°	1791.1	1752.9	1735.9	1697.8	1706.2	1676.5	1659.5	1668.0	1663.8	1621.4	1629.9
47.5°	1494.0	1426.1	1396.4	1341.2	1328.5	1294.5	1273.2	1235.1	1201.1	1201.1	1179.9
50°	1243.6	1175.6	1116.2	1052.6	1031.4	1001.6	955.0	904.0	878.6	853.1	831.9
52.5°	1044.1	972.0	899.8	831.9	802.1	764.0	700.2	649.4	602.8	577.2	551.8
55°	882.9	802.1	725.8	653.6	615.4	577.2	513.5	454.1	399.0	365.0	343.8
57.5°	759.8	683.4	602.8	526.2	492.4	449.9	382.0	318.4	267.4	229.2	208.0
60°	670.6	594.2	522.0	441.4	407.5	365.0	292.9	233.4	182.5	148.5	123.1
62.5°	594.2	526.2	449.9	377.8	343.8	301.4	233.4	174.0	127.4	93.4	72.1
65°	539.0	471.1	407.5	335.2	305.6	263.1	199.5	144.2	101.9	72.1	50.9
67.5°	475.4	416.0	352.2	292.9	263.1	229.2	169.8	123.1	84.9	59.4	42.5
70°	399.0	352.2	297.1	241.9	220.8	191.0	140.0	101.9	67.9	46.6	34.0
72.5°	318.4	280.1	237.6	195.2	178.2	148.5	114.6	80.6	50.9	34.0	25.5
75°	241.9	212.2	178.2	148.5	131.6	114.6	84.9	59.4	38.2	25.5	17.0
77.5°	165.5	152.8	127.4	101.9	93.4	80.6	55.1	38.2	25.5	17.0	8.5
80°	114.6	101.9	84.9	67.9	59.4	50.9	34.0	25.5	12.8	8.5	4.2
82.5°	72.1	59.4	50.9	42.5	38.2	29.8	21.2	12.8	8.5	4.2	4.2
85°	38.2	34.0	29.8	21.2	21.2	17.0	12.8	8.5	4.2	0.0	0.0
87.5°	21.2	17.0	12.8	8.5	8.5	4.2	4.2	4.2	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°	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5
2.5°	4465.0	4465.0	4460.8	4511.8	4452.2	4511.8	4482.0	4511.8	4469.2	4465.0	4469.2
5°	4499.0	4511.8	4516.0	4562.6	4507.5	4579.6	4554.1	4579.6	4549.9	4558.4	4571.1
7.5°	4566.9	4588.1	4583.9	4643.2	4588.1	4668.8	4651.8	4690.0	4660.2	4668.8	4685.8
10°	4643.2	4668.8	4673.0	4732.4	4681.5	4779.1	4757.9	4800.2	4774.9	4787.6	4808.8
12.5°	4732.4	4762.1	4766.4	4834.2	4779.1	4881.0	4868.2	4910.6	4889.5	4902.1	4927.6
15°	4800.2	4842.8	4851.2	4919.1	4859.8	4965.9	4957.4	5012.5	4978.6	4999.8	5021.0
17.5°	4834.2	4872.5	4889.5	4953.1	4902.1	5008.2	4999.8	5046.5	5021.0	5042.2	5067.8
20°	4813.0	4859.8	4872.5	4936.1	4885.2	4991.2	4978.6	5025.2	4999.8	5016.8	5042.2
22.5°	4736.6	4783.4	4800.2	4859.8	4813.0	4910.6	4906.4	4948.9	4914.9	4936.1	4957.4
25°	4600.9	4651.8	4660.2	4715.4	4664.5	4766.4	4757.9	4804.5	4779.1	4791.9	4821.5
27.5°	4405.6	4465.0	4477.8	4524.4	4486.2	4571.1	4571.1	4609.4	4579.6	4579.6	4609.4
30°	4172.1	4231.6	4240.1	4278.2	4244.2	4320.8	4325.0	4363.1	4316.5	4341.9	4346.1
32.5°	3887.8	3926.0	3951.5	3985.4	3934.5	4032.1	4019.4	4049.1	4023.6	4023.6	4044.9
35°	3544.0	3590.6	3603.4	3645.9	3603.4	3679.9	3679.9	3696.8	3671.4	3671.4	3705.2
37.5°	3170.5	3204.5	3208.8	3251.1	3217.1	3280.9	3276.6	3289.4	3263.9	3280.9	3280.9
40°	2733.4	2758.8	2767.2	2788.5	2784.2	2831.0	2826.8	2835.2	2822.5	2826.8	2835.2
42.5°	2224.0	2258.0	2275.0	2291.9	2266.5	2330.1	2317.4	2330.1	2325.9	2330.1	2342.9
45°	1638.2	1663.8	1676.5	1680.8	1672.2	1710.5	1740.1	1714.8	1719.0	1710.5	1727.4
47.5°	1184.1	1188.4	1179.9	1205.4	1184.1	1201.1	1209.6	1213.9	1188.4	1184.1	1201.1
50°	810.6	831.9	802.1	814.9	810.6	827.6	819.1	823.4	797.9	810.6	802.1
52.5°	539.0	534.8	526.2	530.5	522.0	522.0	522.0	530.5	513.5	505.1	496.6
55°	326.8	318.4	301.4	297.1	297.1	301.4	292.9	284.4	284.4	280.1	280.1
57.5°	191.0	178.2	169.8	165.5	157.0	152.8	148.5	148.5	140.0	140.0	140.0
60°	106.1	93.4	84.9	76.4	76.4	72.1	67.9	63.6	63.6	63.6	59.4
62.5°	55.1	46.6	38.2	34.0	34.0	29.8	25.5	25.5	25.5	25.5	21.2
65°	38.2	29.8	25.5	21.2	21.2	17.0	17.0	17.0	17.0	17.0	17.0
67.5°	29.8	25.5	21.2	17.0	17.0	17.0	12.8	12.8	12.8	12.8	12.8
70°	25.5	17.0	17.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
72.5°	17.0	17.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
75°	12.8	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	0.0	0.0	0.0	0.0	0.0
80°	4.2	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: P252213

CATALOG NUMBER: LE_6B60D010R EC6B60709030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5	4439.5
2.5°	4507.5	4503.2	4507.5	4516.0	4499.0	4549.9	4524.4	4549.9
5°	4605.1	4609.4	4613.5	4626.2	4605.1	4668.8	4634.8	4673.0
7.5°	4732.4	4736.6	4740.9	4753.6	4740.9	4804.5	4766.4	4800.2
10°	4864.0	4872.5	4872.5	4893.6	4881.0	4940.4	4914.9	4957.4
12.5°	4987.0	4995.5	5004.0	5016.8	5008.2	5072.0	5050.8	5084.6
15°	5084.6	5101.6	5105.9	5122.9	5114.4	5182.2	5156.9	5190.8
17.5°	5131.4	5148.4	5148.4	5169.6	5161.1	5233.2	5199.2	5237.5
20°	5105.9	5118.6	5122.9	5144.1	5135.6	5207.8	5173.8	5220.5
22.5°	5025.2	5029.5	5033.8	5055.0	5050.8	5114.4	5084.6	5114.4
25°	4876.8	4889.5	4885.2	4902.1	4902.1	4953.1	4919.1	4944.6
27.5°	4664.5	4677.2	4677.2	4698.5	4681.5	4732.4	4698.5	4736.6
30°	4405.6	4418.4	4409.9	4426.8	4409.9	4460.8	4435.2	4448.0
32.5°	4095.8	4095.8	4100.0	4104.2	4095.8	4142.5	4117.0	4142.5
35°	3726.5	3735.0	3739.2	3743.5	3735.0	3769.0	3739.2	3756.2
37.5°	3310.5	3331.8	3327.5	3331.8	3319.0	3361.5	3336.0	3344.5
40°	2864.9	2864.9	2860.6	2869.1	2856.4	2890.4	2873.4	2881.9
42.5°	2347.1	2359.9	2342.9	2364.1	2330.1	2376.8	2359.9	2347.1
45°	1761.4	1744.4	1740.1	1744.4	1731.6	1735.9	1748.6	1740.1
47.5°	1201.1	1201.1	1192.6	1179.9	1196.9	1201.1	1184.1	1184.1
50°	806.4	806.4	797.9	793.6	802.1	797.9	789.5	802.1
52.5°	513.5	496.6	496.6	505.1	496.6	488.1	500.9	492.4
55°	280.1	271.6	271.6	280.1	271.6	271.6	267.4	275.9
57.5°	135.9	140.0	135.9	135.9	135.9	135.9	131.6	135.9
60°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
62.5°	25.5	25.5	21.2	21.2	21.2	21.2	21.2	21.2
65°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
67.5°	12.8	12.8	12.8	12.8	12.8	17.0	12.8	12.8
70°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
72.5°	12.8	12.8	17.0	17.0	17.0	17.0	17.0	17.0
75°	8.5	8.5	8.5	4.2	4.2	4.2	4.2	4.2
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)