

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: P252415

Luminaire Tested: **LE_6B60D010R EC6B60708030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS 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: 6750.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

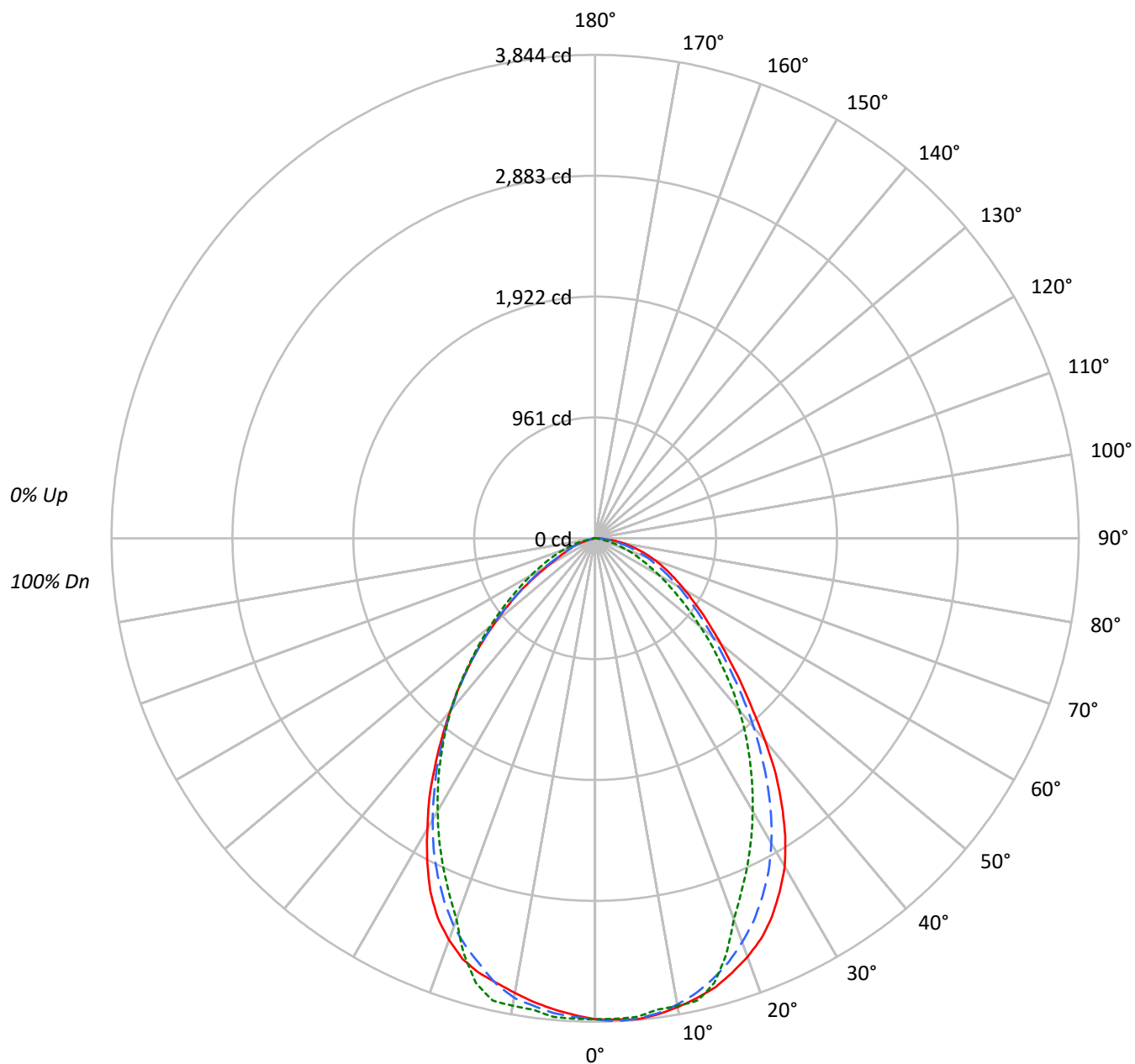
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	86		100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	80	74		93	85	79	73		82	77	72		79	75	71		77	73	70
4	88	78	71	65		86	77	70	64		74	68	64		72	67	63		70	66	62
5	82	71	63	57		80	70	63	57		68	62	57		66	60	56		64	59	55
6	77	65	57	51		75	64	57	51		62	56	51		61	55	50		59	54	50
7	72	60	52	46		70	59	51	46		57	51	46		56	50	46		55	49	45
8	67	55	47	42		66	54	47	42		53	46	42		52	46	42		51	45	41
9	63	51	43	38		62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35		58	47	40	35		46	40	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	249519	249519	249519
5°	251448	250145	246242
10°	250739	250076	243166
15°	249602	247258	241544
20°	245878	223807	235880
25°	239199	206309	223111
30°	227130	188590	200929
35°	206111	170502	176826
40°	178933	151859	152285
45°	152605	130609	129244
50°	132087	110408	104348
55°	118077	92087	80781
60°	107582	76475	54437
65°	100435	62860	40631
70°	95681	51159	34125
75°	90140	36298	11293
80°	85849	18635	3719
85°	70663	11153	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.1	5.4
10°-20°	1010.1	15.0
20°-30°	1394.3	20.7
30°-40°	1418.9	21.0
40°-50°	1140.3	16.9
50°-60°	758.2	11.2
60°-70°	432.1	6.4
70°-80°	194.1	2.9
80°-90°	40.9	0.6
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°	2765.6	41.0
0°-40°	4184.5	62.0
0°-60°	6083.0	90.1
0°-90°	6750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6750.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3825	3825	3825	3825	3825	
5°	3840	3834	3820	3790	3760	364
15°	3696	3626	3661	3517	3576	1040
25°	3323	3144	2866	2960	3099	1523
35°	2588	2389	2141	2180	2220	1608
45°	1654	1555	1416	1401	1401	1283
55°	1038	969	810	720	710	933
65°	651	581	407	263	263	648
75°	358	298	144	60	45	382
85°	94	65	15	5	0	112
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°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3829.6	3849.5	3844.5	3839.5	3844.5	3839.5	3829.6	3829.6	3819.6	3819.6	3844.5
5°	3839.5	3849.5	3844.5	3839.5	3839.5	3844.5	3824.6	3824.6	3814.6	3809.8	3834.5
7.5°	3819.6	3834.5	3824.6	3824.6	3819.6	3824.6	3804.8	3804.8	3789.9	3784.9	3809.8
10°	3784.9	3804.8	3794.8	3794.8	3794.8	3784.9	3774.9	3770.0	3755.1	3750.1	3765.0
12.5°	3745.1	3760.0	3755.1	3745.1	3745.1	3745.1	3725.2	3720.2	3700.4	3690.5	3705.4
15°	3695.5	3705.4	3700.4	3695.5	3685.5	3685.5	3665.6	3655.8	3635.9	3616.0	3625.9
17.5°	3621.0	3635.9	3625.9	3621.0	3606.0	3606.0	3586.2	3576.2	3546.5	3526.6	3531.5
20°	3541.5	3546.5	3541.5	3531.5	3516.6	3511.6	3491.9	3472.0	3447.1	3422.2	3417.2
22.5°	3447.1	3452.1	3437.1	3427.2	3412.4	3407.4	3382.5	3367.6	3327.9	3298.1	3293.1
25°	3322.9	3327.9	3327.9	3303.1	3293.1	3283.2	3258.4	3233.5	3198.8	3159.0	3144.1
27.5°	3173.9	3188.9	3178.9	3154.0	3134.2	3129.2	3104.4	3084.5	3039.9	3005.0	2985.1
30°	3015.0	3010.0	3005.0	2990.1	2960.4	2955.4	2930.5	2905.8	2871.0	2826.2	2801.4
32.5°	2811.4	2811.4	2806.4	2791.5	2761.6	2751.8	2731.9	2702.0	2662.4	2627.5	2602.8
35°	2587.9	2592.8	2587.9	2558.0	2538.1	2528.2	2518.2	2483.5	2448.8	2409.0	2389.1
37.5°	2354.4	2339.5	2344.4	2319.6	2294.8	2304.8	2274.9	2260.0	2220.2	2190.5	2170.6
40°	2101.0	2111.0	2091.1	2081.1	2066.2	2051.4	2051.4	2026.5	2006.6	1971.9	1962.0
42.5°	1852.8	1867.6	1862.6	1852.8	1832.9	1837.8	1813.0	1803.0	1778.2	1763.2	1748.4
45°	1654.0	1654.0	1654.0	1644.1	1639.1	1629.1	1614.2	1599.4	1584.5	1564.6	1554.6
47.5°	1460.2	1460.2	1465.2	1455.4	1445.4	1440.4	1430.5	1430.5	1405.6	1385.8	1375.9
50°	1301.4	1301.4	1301.4	1291.4	1281.5	1281.5	1271.5	1261.6	1246.8	1231.9	1221.9
52.5°	1157.4	1157.4	1157.4	1147.4	1142.4	1137.5	1132.5	1127.5	1107.6	1097.8	1087.8
55°	1038.1	1033.1	1033.1	1028.1	1018.2	1018.2	1013.2	1003.4	988.4	973.5	968.6
57.5°	918.9	923.9	918.9	918.9	909.0	909.0	899.0	894.1	879.1	869.2	859.2
60°	824.5	824.5	824.5	819.5	809.6	814.6	804.6	799.8	784.8	769.9	760.0
62.5°	730.1	735.1	735.1	730.1	720.2	720.2	715.2	710.2	695.4	680.5	665.6
65°	650.6	650.6	650.6	645.8	640.8	640.8	635.8	630.8	615.9	596.0	581.1
67.5°	576.1	571.2	571.2	571.2	566.2	561.2	556.2	551.4	536.5	521.5	501.6
70°	501.6	501.6	501.6	496.8	486.8	491.8	486.8	481.8	466.9	452.0	437.1
72.5°	432.1	432.1	427.1	422.2	422.2	417.2	417.2	412.2	397.4	377.5	362.6
75°	357.6	357.6	357.6	357.6	347.8	352.6	342.8	337.8	327.9	312.9	298.0
77.5°	293.0	293.0	293.0	288.1	283.1	283.1	278.1	273.1	258.2	248.4	228.5
80°	228.5	228.5	228.5	228.5	223.5	218.5	213.6	208.6	198.6	183.8	168.9
82.5°	168.9	168.9	163.9	163.9	163.9	159.0	154.0	149.0	139.1	129.1	119.2
85°	94.4	99.4	99.4	89.4	94.4	89.4	89.4	79.5	79.5	69.5	64.6
87.5°	34.8	29.8	29.8	29.8	29.8	29.8	29.8	24.9	24.9	24.9	19.9
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°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3824.6	3819.6	3839.5	3839.5	3809.8	3824.6	3829.6	3819.6	3819.6	3824.6	3809.8
5°	3814.6	3804.8	3824.6	3829.6	3799.8	3814.6	3819.6	3809.8	3814.6	3819.6	3799.8
7.5°	3779.9	3779.9	3794.8	3799.8	3770.0	3784.9	3784.9	3774.9	3779.9	3779.9	3765.0
10°	3745.1	3730.2	3745.1	3745.1	3720.2	3725.2	3735.2	3730.2	3750.1	3774.9	3774.9
12.5°	3680.6	3665.6	3690.5	3690.5	3675.6	3695.5	3720.2	3735.2	3755.1	3765.0	3735.2
15°	3601.1	3606.0	3650.8	3685.5	3670.6	3700.4	3725.2	3715.4	3690.5	3660.8	3616.0
17.5°	3496.8	3481.9	3521.6	3541.5	3521.6	3531.5	3551.4	3531.5	3491.9	3467.0	3407.4
20°	3377.6	3337.9	3337.9	3327.9	3293.1	3293.1	3288.1	3253.4	3238.5	3223.6	3198.8
22.5°	3243.5	3198.8	3183.9	3154.0	3124.2	3119.2	3104.4	3069.6	3049.8	3039.9	3010.0
25°	3089.5	3049.8	3024.9	2995.1	2950.4	2940.5	2925.6	2890.8	2880.9	2866.0	2841.1
27.5°	2930.5	2880.9	2846.1	2816.2	2776.6	2771.6	2741.8	2717.0	2697.1	2687.1	2667.2
30°	2746.8	2692.1	2667.2	2627.5	2597.8	2587.9	2563.0	2528.2	2513.4	2503.4	2488.5
32.5°	2543.1	2498.4	2473.6	2438.8	2399.1	2404.0	2374.2	2344.4	2334.5	2324.6	2309.6
35°	2344.4	2299.8	2269.9	2240.1	2215.2	2205.4	2185.5	2160.6	2145.8	2140.8	2130.9
37.5°	2125.9	2091.1	2066.2	2036.5	2016.6	2006.6	1996.8	1971.9	1962.0	1962.0	1942.1
40°	1912.2	1882.5	1862.6	1847.8	1822.9	1817.9	1808.0	1793.1	1788.1	1783.1	1768.2
42.5°	1718.6	1678.9	1664.0	1654.0	1639.1	1629.1	1624.2	1614.2	1609.4	1604.4	1589.5
45°	1534.8	1500.0	1485.1	1475.2	1460.2	1455.4	1450.4	1435.5	1425.5	1415.6	1410.6
47.5°	1356.0	1331.1	1326.2	1301.4	1291.4	1281.5	1271.5	1261.6	1256.6	1251.8	1231.9
50°	1202.0	1187.1	1162.2	1147.4	1137.5	1132.5	1112.6	1097.8	1092.8	1087.8	1072.9
52.5°	1063.0	1043.1	1028.1	1003.4	998.4	988.4	978.5	958.6	948.8	943.8	928.9
55°	938.8	923.9	904.0	884.1	869.2	864.2	849.4	829.5	819.5	809.6	799.8
57.5°	834.5	809.6	789.8	769.9	760.0	745.0	730.1	720.2	705.4	690.4	675.5
60°	735.1	715.2	690.4	670.5	660.6	650.6	630.8	615.9	601.0	586.1	571.2
62.5°	640.8	620.9	596.0	576.1	566.2	556.2	536.5	521.5	506.6	491.8	471.9
65°	556.2	536.5	516.6	496.8	486.8	476.9	457.0	437.1	422.2	407.2	387.4
67.5°	486.8	461.9	442.1	422.2	412.2	402.4	382.5	367.5	347.8	332.8	312.9
70°	412.2	392.4	377.5	357.6	347.8	337.8	317.9	298.0	283.1	268.2	248.4
72.5°	347.8	322.9	308.0	288.1	278.1	273.1	253.4	238.4	223.5	203.6	188.8
75°	278.1	258.2	238.4	223.5	213.6	208.6	188.8	173.9	159.0	144.0	129.1
77.5°	213.6	198.6	178.9	163.9	154.0	149.0	129.1	114.2	99.4	89.4	74.5
80°	159.0	139.1	129.1	114.2	109.2	99.4	89.4	74.5	64.6	49.6	39.8
82.5°	109.2	94.4	84.5	74.5	69.5	64.6	54.6	44.8	34.8	29.8	24.9
85°	59.6	49.6	44.8	39.8	34.8	34.8	29.8	24.9	19.9	14.9	9.9
87.5°	19.9	14.9	14.9	14.9	14.9	9.9	9.9	9.9	5.0	5.0	5.0
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°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3819.6	3819.6	3819.6	3814.6	3814.6	3814.6	3809.8	3829.6	3809.8	3804.8	3819.6
5°	3814.6	3804.8	3804.8	3804.8	3804.8	3799.8	3794.8	3804.8	3789.9	3784.9	3784.9
7.5°	3784.9	3779.9	3779.9	3774.9	3770.0	3765.0	3760.0	3765.0	3750.1	3745.1	3745.1
10°	3789.9	3779.9	3779.9	3765.0	3755.1	3740.1	3725.2	3730.2	3710.4	3695.5	3695.5
12.5°	3730.2	3705.4	3690.5	3675.6	3665.6	3660.8	3640.9	3650.8	3630.9	3625.9	3625.9
15°	3596.1	3566.4	3541.5	3531.5	3531.5	3521.6	3506.8	3526.6	3516.6	3521.6	3546.5
17.5°	3387.5	3372.6	3357.8	3352.8	3357.8	3367.6	3377.6	3407.4	3407.4	3422.2	3447.1
20°	3203.8	3193.8	3203.8	3203.8	3208.8	3228.6	3248.4	3273.2	3283.2	3298.1	3332.9
22.5°	3024.9	3024.9	3034.9	3049.8	3044.8	3079.5	3084.5	3129.2	3129.2	3159.0	3188.9
25°	2851.1	2851.1	2861.0	2866.0	2875.9	2895.8	2915.6	2950.4	2960.4	2990.1	3015.0
27.5°	2682.2	2677.2	2677.2	2682.2	2692.1	2717.0	2726.9	2766.6	2781.5	2801.4	2826.2
30°	2493.5	2488.5	2498.4	2508.4	2503.4	2528.2	2543.1	2572.9	2582.9	2602.8	2622.6
32.5°	2314.6	2314.6	2314.6	2324.6	2324.6	2344.4	2344.4	2379.2	2379.2	2394.1	2414.0
35°	2130.9	2130.9	2135.9	2140.8	2145.8	2150.8	2155.6	2175.5	2180.5	2185.5	2195.4
37.5°	1957.0	1952.0	1957.0	1957.0	1947.1	1967.0	1967.0	1986.8	1971.9	1986.8	1991.8
40°	1778.2	1778.2	1773.2	1773.2	1773.2	1783.1	1773.2	1788.1	1778.2	1788.1	1783.1
42.5°	1594.4	1594.4	1584.5	1594.4	1589.5	1589.5	1589.5	1599.4	1584.5	1594.4	1599.4
45°	1410.6	1405.6	1405.6	1400.8	1400.8	1400.8	1405.6	1405.6	1400.8	1410.6	1410.6
47.5°	1231.9	1226.9	1226.9	1226.9	1226.9	1231.9	1216.9	1226.9	1216.9	1216.9	1216.9
50°	1077.9	1072.9	1067.9	1063.0	1058.0	1058.0	1053.0	1053.0	1043.1	1038.1	1033.1
52.5°	928.9	923.9	913.9	913.9	909.0	904.0	889.1	889.1	874.2	869.2	869.2
55°	794.8	779.9	774.9	764.9	764.9	755.0	745.0	735.1	720.2	710.2	710.2
57.5°	670.5	655.6	645.8	640.8	635.8	625.9	606.0	601.0	581.1	576.1	571.2
60°	561.2	546.4	531.5	521.5	516.6	501.6	481.8	471.9	461.9	447.0	432.1
62.5°	457.0	442.1	422.2	417.2	407.2	392.4	377.5	362.6	352.6	337.8	327.9
65°	367.5	352.6	337.8	327.9	317.9	303.0	288.1	273.1	263.2	258.2	253.4
67.5°	298.0	278.1	263.2	258.2	248.4	238.4	223.5	218.5	208.6	208.6	208.6
70°	233.5	218.5	203.6	198.6	193.8	183.8	173.9	173.9	173.9	173.9	173.9
72.5°	173.9	163.9	149.0	144.0	139.1	134.1	124.1	129.1	124.1	124.1	124.1
75°	109.2	99.4	89.4	84.5	79.5	74.5	69.5	64.6	59.6	54.6	54.6
77.5°	59.6	49.6	44.8	39.8	39.8	34.8	29.8	29.8	24.9	24.9	24.9
80°	34.8	29.8	24.9	19.9	19.9	14.9	14.9	14.9	14.9	9.9	9.9
82.5°	19.9	14.9	9.9	9.9	9.9	9.9	5.0	5.0	5.0	5.0	5.0
85°	9.9	9.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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: P252415

CATALOG NUMBER: LE_6B60D010R EC6B60708030 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3794.8	3809.8	3794.8	3809.8	3809.8	3809.8	3809.8	3794.8
5°	3770.0	3779.9	3765.0	3774.9	3779.9	3774.9	3774.9	3760.0
7.5°	3725.2	3735.2	3720.2	3735.2	3740.1	3735.2	3730.2	3720.2
10°	3680.6	3685.5	3670.6	3680.6	3690.5	3690.5	3685.5	3670.6
12.5°	3611.0	3625.9	3611.0	3621.0	3630.9	3635.9	3635.9	3621.0
15°	3531.5	3556.4	3546.5	3561.4	3576.2	3581.2	3581.2	3576.2
17.5°	3452.1	3476.9	3462.0	3486.9	3501.8	3511.6	3516.6	3506.8
20°	3337.9	3367.6	3357.8	3377.6	3397.5	3412.4	3412.4	3397.5
22.5°	3188.9	3228.6	3223.6	3238.5	3263.4	3268.2	3278.2	3268.2
25°	3024.9	3054.8	3049.8	3064.6	3094.5	3094.5	3099.4	3099.4
27.5°	2836.1	2866.0	2861.0	2871.0	2890.8	2895.8	2900.8	2890.8
30°	2632.5	2647.4	2647.4	2662.4	2677.2	2682.2	2682.2	2667.2
32.5°	2409.0	2428.9	2438.8	2433.9	2448.8	2458.6	2453.8	2453.8
35°	2205.4	2210.4	2215.2	2220.2	2225.2	2235.1	2225.2	2220.2
37.5°	1986.8	2001.8	1991.8	2001.8	2011.6	2006.6	2001.8	2001.8
40°	1788.1	1793.1	1783.1	1793.1	1798.0	1798.0	1798.0	1788.1
42.5°	1589.5	1599.4	1589.5	1599.4	1599.4	1599.4	1599.4	1594.4
45°	1390.8	1400.8	1400.8	1405.6	1405.6	1400.8	1400.8	1400.8
47.5°	1207.0	1216.9	1207.0	1216.9	1221.9	1212.0	1212.0	1212.0
50°	1033.1	1028.1	1028.1	1033.1	1033.1	1033.1	1033.1	1028.1
52.5°	854.4	859.2	859.2	859.2	864.2	859.2	864.2	864.2
55°	700.4	700.4	700.4	705.4	700.4	700.4	705.4	710.2
57.5°	561.2	556.2	551.4	551.4	556.2	551.4	551.4	551.4
60°	432.1	427.1	422.2	422.2	422.2	422.2	422.2	417.2
62.5°	322.9	322.9	322.9	327.9	327.9	327.9	327.9	332.8
65°	258.2	258.2	258.2	258.2	258.2	258.2	258.2	263.2
67.5°	208.6	208.6	208.6	213.6	213.6	213.6	213.6	213.6
70°	173.9	173.9	178.9	173.9	178.9	178.9	178.9	178.9
72.5°	119.2	119.2	119.2	119.2	119.2	114.2	119.2	114.2
75°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	44.8
77.5°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
80°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	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)