

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: P252311

Luminaire Tested: **LE_6B60D010R EC6B60708030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6900.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

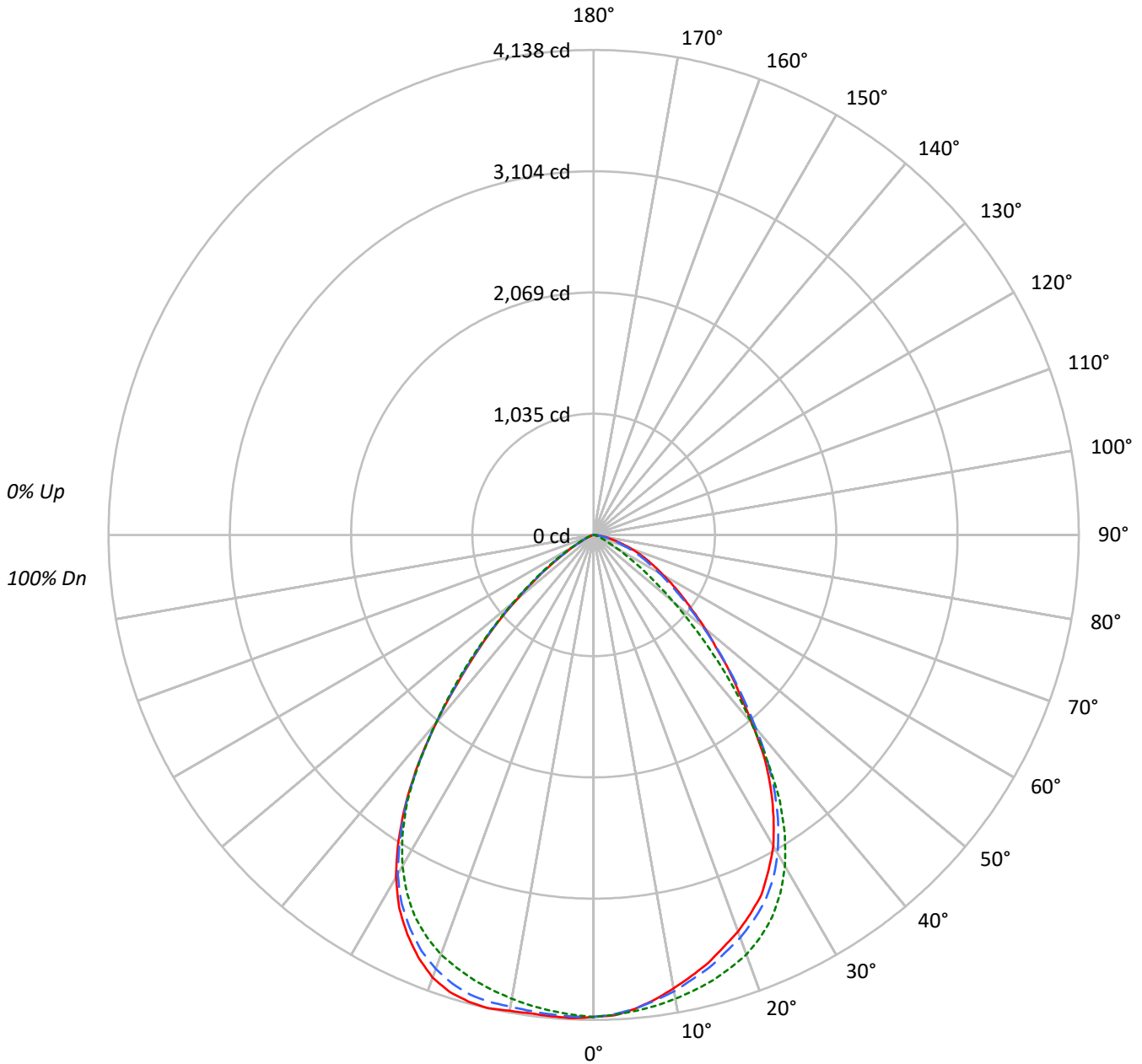
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	268328	268328	268328
5°	265764	267068	270001
10°	260285	266214	273123
15°	255309	265710	278462
20°	250023	264512	278995
25°	243857	259233	270671
30°	230882	245843	254084
35°	209671	220359	222327
40°	178941	178090	177247
45°	150317	133368	129244
50°	125541	90240	85704
55°	105656	55370	50286
60°	89445	29163	25287
65°	77433	15345	12273
70°	64436	9461	6638
75°	47591	6277	3756
80°	37345	3719	1879
85°	29792	3743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	5.6
10°-20°	1109.8	16.1
20°-30°	1638.8	23.8
30°-40°	1689.0	24.5
40°-50°	1166.6	16.9
50°-60°	575.0	8.3
60°-70°	233.0	3.4
70°-80°	83.0	1.2
80°-90°	17.2	0.2
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°	3136.3	45.5
0°-40°	4825.3	69.9
0°-60°	6566.8	95.2
0°-90°	6900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6900.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4113	4113	4113	4113	4113	
5°	4058	4058	4078	4108	4123	383
15°	3780	3820	3934	4063	4123	1064
25°	3388	3452	3601	3706	3760	1549
35°	2633	2697	2767	2782	2792	1631
45°	1629	1639	1446	1426	1401	1259
55°	929	894	487	457	442	839
65°	502	452	99	80	80	498
75°	189	159	25	15	15	212
85°	40	30	5	0	0	49
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°	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9
2.5°	4102.9	4088.0	4097.9	4078.0	4102.9	4078.0	4083.0	4088.0	4083.0	4088.0	4093.0
5°	4058.1	4043.2	4058.1	4033.4	4058.1	4043.2	4043.2	4048.2	4048.2	4053.2	4058.1
7.5°	3998.6	3983.6	3998.6	3973.8	4003.5	3988.6	3988.6	3998.6	3993.6	3998.6	4008.5
10°	3929.0	3909.1	3924.1	3909.1	3939.0	3919.1	3929.0	3929.0	3929.0	3944.0	3953.9
12.5°	3854.5	3834.6	3854.5	3829.8	3859.5	3844.6	3849.6	3864.5	3869.4	3879.4	3884.4
15°	3780.0	3755.2	3765.1	3750.2	3780.0	3765.1	3770.1	3790.0	3790.0	3804.9	3819.8
17.5°	3685.6	3665.8	3685.6	3665.8	3690.6	3680.6	3690.6	3705.5	3705.5	3720.4	3735.4
20°	3601.2	3581.4	3596.2	3581.4	3611.1	3596.2	3601.2	3621.1	3626.0	3641.0	3655.9
22.5°	3496.9	3482.0	3491.9	3477.0	3506.9	3496.9	3501.9	3521.8	3526.8	3536.6	3561.5
25°	3387.6	3357.9	3372.8	3362.8	3392.6	3377.6	3387.6	3407.5	3417.4	3432.4	3452.2
27.5°	3228.6	3213.8	3223.8	3223.8	3248.5	3233.6	3238.6	3258.5	3273.4	3288.2	3313.1
30°	3064.8	3039.9	3049.9	3054.9	3074.6	3064.8	3074.6	3094.5	3099.5	3119.4	3139.2
32.5°	2856.1	2846.2	2866.1	2856.1	2866.1	2866.1	2871.0	2885.9	2895.9	2905.8	2930.6
35°	2632.6	2612.8	2632.6	2622.6	2647.5	2632.6	2647.5	2662.4	2662.4	2682.2	2697.1
37.5°	2389.2	2364.4	2374.2	2374.2	2384.2	2379.2	2379.2	2404.1	2409.1	2424.0	2438.9
40°	2101.1	2091.1	2111.0	2106.1	2111.0	2111.0	2116.0	2130.9	2140.9	2145.9	2150.8
42.5°	1842.9	1847.8	1852.8	1852.8	1852.8	1852.8	1852.8	1872.6	1867.6	1882.5	1887.5
45°	1629.2	1609.4	1619.2	1614.4	1629.2	1614.4	1629.2	1644.1	1634.2	1649.1	1639.1
47.5°	1410.6	1410.6	1410.6	1405.8	1415.6	1410.6	1420.6	1425.6	1425.6	1425.6	1420.6
50°	1236.9	1221.9	1226.9	1226.9	1231.9	1226.9	1236.9	1241.8	1241.8	1231.9	1212.0
52.5°	1068.0	1063.0	1063.0	1072.9	1072.9	1068.0	1068.0	1068.0	1068.0	1053.0	1043.1
55°	928.9	918.9	923.9	923.9	923.9	923.9	928.9	923.9	923.9	909.0	894.1
57.5°	804.6	794.8	794.8	794.8	799.8	794.8	794.8	794.8	789.8	774.9	755.0
60°	685.5	680.5	685.5	685.5	690.5	685.5	685.5	685.5	675.5	660.6	640.8
62.5°	586.1	586.1	586.1	591.1	591.1	586.1	586.1	581.1	576.2	556.4	536.5
65°	501.6	496.8	501.6	501.6	506.6	506.6	501.6	496.8	491.8	471.9	452.0
67.5°	417.2	412.2	417.2	417.2	422.2	417.2	417.2	417.2	402.4	392.4	372.5
70°	337.8	332.8	332.8	332.8	337.8	327.9	332.8	332.8	322.9	308.0	288.1
72.5°	258.2	258.2	258.2	258.2	258.2	258.2	253.4	253.4	243.4	228.5	218.5
75°	188.8	188.8	193.8	193.8	188.8	188.8	188.8	183.8	178.9	168.9	159.0
77.5°	139.1	139.1	139.1	139.1	134.1	134.1	134.1	129.1	124.1	119.2	109.2
80°	99.4	99.4	99.4	94.4	99.4	94.4	94.4	94.4	84.5	79.5	74.5
82.5°	69.5	64.6	64.6	64.6	64.6	64.6	64.6	59.6	59.6	54.6	49.6
85°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	34.8	29.8	29.8
87.5°	19.9	24.9	24.9	24.9	24.9	24.9	24.9	19.9	19.9	19.9	14.9
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°	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9
2.5°	4093.0	4093.0	4102.9	4088.0	4112.9	4097.9	4093.0	4117.8	4102.9	4097.9	4107.9
5°	4058.1	4063.1	4068.1	4058.1	4083.0	4068.1	4068.1	4093.0	4083.0	4078.0	4093.0
7.5°	4013.5	4018.5	4028.4	4023.4	4043.2	4033.4	4038.4	4063.1	4053.2	4053.2	4068.1
10°	3958.9	3968.8	3978.8	3978.8	4003.5	3993.6	3993.6	4023.4	4013.5	4018.5	4038.4
12.5°	3894.2	3909.1	3924.1	3929.0	3953.9	3939.0	3944.0	3978.8	3973.8	3978.8	3998.6
15°	3824.8	3844.6	3859.5	3859.5	3889.2	3874.4	3889.2	3924.1	3914.1	3934.0	3958.9
17.5°	3745.2	3765.1	3785.0	3790.0	3819.8	3809.9	3829.8	3864.5	3864.5	3874.4	3904.2
20°	3670.8	3695.6	3705.5	3720.4	3750.2	3745.2	3755.2	3794.9	3794.9	3809.9	3839.6
22.5°	3571.4	3596.2	3616.1	3631.0	3655.9	3655.9	3670.8	3705.5	3705.5	3715.5	3745.2
25°	3462.1	3491.9	3506.9	3521.8	3546.6	3541.6	3556.5	3586.2	3591.2	3601.2	3631.0
27.5°	3323.0	3347.9	3367.8	3377.6	3412.5	3392.6	3407.5	3442.2	3437.2	3447.2	3472.0
30°	3149.2	3174.0	3193.9	3193.9	3223.8	3223.8	3238.6	3253.5	3253.5	3263.4	3283.2
32.5°	2945.5	2975.4	2975.4	2990.2	3010.1	2990.2	3010.1	3030.0	3020.0	3035.0	3049.9
35°	2712.1	2727.0	2732.0	2732.0	2746.9	2741.9	2736.9	2751.9	2741.9	2766.8	2781.6
37.5°	2429.0	2448.9	2438.9	2448.9	2443.9	2429.0	2429.0	2453.8	2433.9	2438.9	2453.8
40°	2155.8	2155.8	2150.8	2126.0	2130.9	2116.0	2111.0	2116.0	2096.1	2091.1	2111.0
42.5°	1872.6	1867.6	1852.8	1818.0	1823.0	1798.1	1778.2	1778.2	1768.4	1763.4	1768.4
45°	1619.2	1604.4	1579.6	1539.9	1529.9	1510.0	1470.2	1460.4	1445.5	1445.5	1450.4
47.5°	1385.9	1366.0	1326.2	1281.5	1256.8	1231.9	1192.1	1177.2	1152.4	1142.5	1152.4
50°	1192.1	1157.4	1107.6	1043.1	1018.2	988.5	948.8	923.9	899.0	889.1	884.1
52.5°	1013.2	963.6	914.0	834.5	814.6	784.9	730.1	705.4	680.5	660.6	660.6
55°	859.4	814.6	745.1	670.6	640.8	611.0	556.4	521.5	496.8	486.8	476.9
57.5°	720.2	670.6	606.0	526.5	496.8	466.9	412.2	377.5	352.6	337.8	327.9
60°	606.0	551.4	486.8	417.2	382.5	352.6	298.0	263.2	238.4	223.5	213.6
62.5°	496.8	452.0	387.5	322.9	293.1	263.2	218.5	183.8	159.0	149.0	134.1
65°	417.2	372.5	312.9	258.2	233.5	203.6	163.9	134.1	114.2	99.4	89.4
67.5°	337.8	303.0	253.4	203.6	178.9	159.0	124.1	99.4	79.5	69.5	64.6
70°	268.2	233.5	193.8	154.0	139.1	119.2	94.4	69.5	59.6	49.6	44.8
72.5°	198.6	173.9	144.0	114.2	99.4	89.4	64.6	54.6	39.8	34.8	29.8
75°	144.0	124.1	104.2	79.5	69.5	64.6	49.6	34.8	29.8	24.9	19.9
77.5°	99.4	89.4	69.5	54.6	49.6	44.8	34.8	24.9	19.9	14.9	14.9
80°	64.6	54.6	44.8	34.8	34.8	29.8	19.9	14.9	14.9	9.9	9.9
82.5°	39.8	34.8	29.8	24.9	19.9	19.9	14.9	9.9	9.9	5.0	5.0
85°	24.9	19.9	14.9	14.9	9.9	9.9	9.9	5.0	5.0	5.0	5.0
87.5°	9.9	9.9	9.9	5.0	5.0	5.0	5.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9
2.5°	4107.9	4107.9	4117.8	4102.9	4112.9	4112.9	4122.8	4102.9	4112.9	4117.8	4127.8
5°	4088.0	4093.0	4102.9	4097.9	4102.9	4102.9	4112.9	4088.0	4107.9	4107.9	4122.8
7.5°	4068.1	4068.1	4078.0	4073.1	4083.0	4088.0	4097.9	4078.0	4097.9	4097.9	4112.9
10°	4043.2	4043.2	4058.1	4053.2	4068.1	4073.1	4088.0	4068.1	4088.0	4093.0	4107.9
12.5°	4008.5	4013.5	4028.4	4028.4	4043.2	4053.2	4068.1	4058.1	4083.0	4088.0	4107.9
15°	3968.8	3978.8	3998.6	3993.6	4008.5	4023.4	4043.2	4028.4	4063.1	4073.1	4093.0
17.5°	3919.1	3929.0	3944.0	3944.0	3958.9	3968.8	3993.6	3983.6	4013.5	4018.5	4043.2
20°	3844.6	3859.5	3879.4	3874.4	3889.2	3899.2	3919.1	3909.1	3939.0	3948.9	3973.8
22.5°	3755.2	3765.1	3780.0	3780.0	3794.9	3804.9	3824.8	3809.9	3839.6	3844.6	3864.5
25°	3636.0	3645.9	3655.9	3660.8	3675.8	3680.6	3690.6	3680.6	3705.5	3710.5	3735.4
27.5°	3482.0	3487.0	3501.9	3501.9	3511.8	3516.8	3531.6	3511.8	3546.6	3546.6	3561.5
30°	3298.2	3293.2	3313.1	3303.1	3313.1	3313.1	3328.0	3318.1	3342.9	3333.0	3347.9
32.5°	3054.9	3064.8	3064.8	3054.9	3074.6	3069.8	3069.8	3059.8	3074.6	3079.6	3089.6
35°	2771.6	2786.6	2786.6	2791.5	2796.5	2781.6	2786.6	2756.8	2781.6	2786.6	2791.5
37.5°	2463.8	2448.9	2458.8	2443.9	2468.8	2438.9	2438.9	2419.0	2438.9	2438.9	2443.9
40°	2111.0	2106.1	2116.0	2106.1	2101.1	2096.1	2086.2	2071.4	2091.1	2081.2	2096.1
42.5°	1778.2	1773.2	1773.2	1763.4	1758.4	1758.4	1748.5	1738.5	1733.5	1733.5	1758.4
45°	1435.5	1445.5	1435.5	1430.5	1440.5	1430.5	1435.5	1415.6	1425.6	1415.6	1425.6
47.5°	1147.4	1152.4	1142.5	1132.5	1147.4	1132.5	1132.5	1117.6	1137.5	1137.5	1127.5
50°	889.1	884.1	874.2	884.1	879.2	879.2	879.2	864.2	874.2	859.4	869.2
52.5°	655.6	650.8	650.8	645.8	650.8	645.8	645.8	640.8	640.8	635.8	640.8
55°	476.9	471.9	462.0	462.0	462.0	466.9	462.0	457.0	457.0	452.0	457.0
57.5°	322.9	312.9	312.9	312.9	312.9	308.0	308.0	303.0	308.0	303.0	308.0
60°	208.6	208.6	198.6	198.6	198.6	198.6	198.6	193.8	198.6	198.6	198.6
62.5°	129.1	129.1	124.1	119.2	124.1	119.2	119.2	119.2	124.1	119.2	124.1
65°	84.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
67.5°	59.6	54.6	54.6	54.6	54.6	54.6	54.6	49.6	54.6	54.6	54.6
70°	39.8	39.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
72.5°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
75°	19.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
77.5°	14.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
80°	9.9	9.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	5.0	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	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: P252311

CATALOG NUMBER: LE_6B60D010R EC6B60708030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9	4112.9
2.5°	4112.9	4117.8	4107.9	4112.9	4102.9	4112.9	4117.8	4127.8
5°	4102.9	4107.9	4097.9	4107.9	4097.9	4107.9	4112.9	4122.8
7.5°	4093.0	4102.9	4093.0	4102.9	4093.0	4102.9	4107.9	4117.8
10°	4093.0	4107.9	4097.9	4112.9	4097.9	4107.9	4117.8	4122.8
12.5°	4093.0	4107.9	4102.9	4112.9	4107.9	4117.8	4127.8	4137.6
15°	4083.0	4097.9	4088.0	4102.9	4097.9	4102.9	4122.8	4122.8
17.5°	4028.4	4043.2	4043.2	4053.2	4053.2	4068.1	4078.0	4088.0
20°	3958.9	3973.8	3968.8	3983.6	3983.6	3998.6	4008.5	4018.5
22.5°	3854.5	3874.4	3869.4	3884.4	3879.4	3889.2	3909.1	3904.2
25°	3720.4	3745.2	3740.2	3750.2	3745.2	3745.2	3755.2	3760.1
27.5°	3556.5	3571.4	3566.4	3576.4	3566.4	3576.4	3586.2	3591.2
30°	3342.9	3352.9	3347.9	3352.9	3347.9	3357.9	3362.8	3372.8
32.5°	3084.6	3099.5	3084.6	3094.5	3089.6	3089.6	3109.5	3099.5
35°	2776.6	2781.6	2786.6	2786.6	2776.6	2781.6	2791.5	2791.5
37.5°	2433.9	2458.8	2429.0	2443.9	2438.9	2438.9	2438.9	2453.8
40°	2076.2	2081.2	2071.4	2071.4	2071.4	2066.4	2086.2	2081.2
42.5°	1738.5	1743.5	1738.5	1723.6	1728.6	1728.6	1743.5	1723.6
45°	1410.6	1420.6	1415.6	1415.6	1405.8	1405.8	1410.6	1400.8
47.5°	1117.6	1127.5	1112.6	1117.6	1107.6	1117.6	1112.6	1122.6
50°	849.4	859.4	854.4	859.4	859.4	849.4	864.2	844.4
52.5°	635.8	640.8	635.8	630.9	625.9	625.9	635.8	630.9
55°	452.0	447.0	447.0	447.0	452.0	452.0	447.0	442.1
57.5°	303.0	303.0	298.0	298.0	303.0	293.1	298.0	293.1
60°	193.8	193.8	193.8	193.8	188.8	193.8	193.8	193.8
62.5°	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2
65°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
67.5°	49.6	54.6	54.6	54.6	49.6	49.6	49.6	49.6
70°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
72.5°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
75°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
77.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)