

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: P252633

Luminaire Tested: **LE_6B60D010R EC6B60709727 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60709727 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5315.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

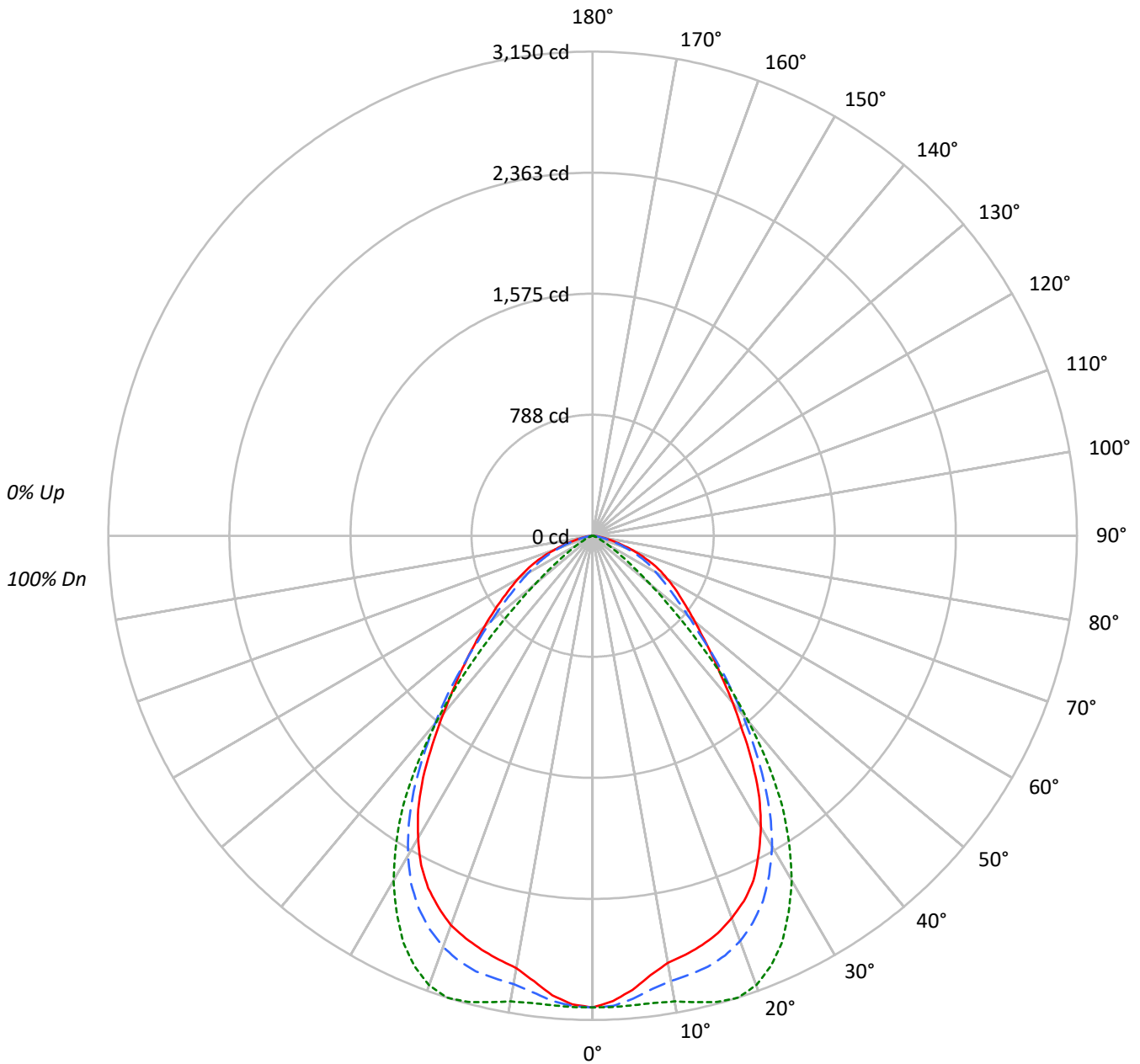
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252633

CATALOG NUMBER: LE_6B60D010R EC6B60709727 6LBDW1LI

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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	200197	200197	200197
5°	194230	200733	196548
10°	186830	203763	189188
15°	186173	212055	188334
20°	183740	215996	187184
25°	178242	209916	182079
30°	164897	195098	171037
35°	144666	171506	153140
40°	120552	134442	128413
45°	101472	88703	108337
50°	87855	48607	93255
55°	79495	25820	81509
60°	73135	13427	73135
65°	66257	7117	64620
70°	53448	4044	49404
75°	36676	2672	33979
80°	24008	1315	21340
85°	15869	2620	13324



TEST NUMBER: P252633

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	5.4
10°-20°	827.4	15.6
20°-30°	1222.5	23.0
30°-40°	1234.8	23.2
40°-50°	851.1	16.0
50°-60°	488.8	9.2
60°-70°	284.5	5.4
70°-80°	103.8	2.0
80°-90°	15.9	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°	2336.1	44.0
0°-40°	3570.9	67.2
0°-60°	4910.8	92.4
0°-90°	5315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5315.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3069	3069	3069	3069	3069	
5°	2966	3022	3065	3037	3001	278
15°	2756	2902	3140	2934	2788	777
25°	2476	2622	2916	2675	2529	1128
35°	1816	1940	2153	2029	1923	1127
45°	1100	1114	961	1185	1174	855
55°	699	614	227	638	717	629
65°	429	362	46	358	419	420
75°	146	117	11	114	135	164
85°	21	11	4	14	18	27
90°	0	0	0	0	0	



TEST NUMBER: P252633

CATALOG NUMBER: LE_6B60D010R EC6B60709727 6LBDW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6
2.5°	3029.6	3033.1	3036.6	3033.1	3036.6	3050.9	3040.2	3047.4	3047.4	3050.9	3061.5
5°	2965.8	2965.8	2972.9	2969.2	2979.9	2994.1	2983.5	2994.1	2997.6	3004.8	3022.5
7.5°	2884.1	2884.1	2887.8	2887.8	2901.9	2916.1	2909.0	2923.1	2937.4	2951.5	2972.9
10°	2820.2	2827.4	2827.4	2830.9	2845.1	2862.9	2859.2	2877.0	2891.2	2912.5	2940.9
12.5°	2791.9	2795.5	2795.5	2802.5	2816.8	2834.5	2830.9	2848.6	2870.0	2894.8	2923.1
15°	2756.4	2763.5	2760.0	2767.1	2781.2	2799.0	2795.5	2813.2	2838.0	2862.9	2901.9
17.5°	2710.4	2713.9	2717.4	2717.4	2731.6	2745.8	2745.8	2763.5	2791.9	2820.2	2862.9
20°	2646.5	2653.5	2653.5	2657.1	2667.8	2689.0	2685.5	2703.2	2731.6	2760.0	2806.1
22.5°	2572.0	2575.5	2575.5	2579.0	2596.8	2607.4	2611.0	2625.1	2650.0	2681.9	2724.5
25°	2476.1	2479.8	2476.1	2486.9	2493.9	2515.2	2508.1	2525.9	2554.2	2579.0	2621.6
27.5°	2337.9	2344.9	2344.9	2348.5	2366.2	2384.0	2384.0	2401.6	2426.5	2444.2	2486.9
30°	2188.9	2199.5	2188.9	2206.6	2213.6	2227.9	2238.5	2249.1	2270.4	2295.2	2334.2
32.5°	2018.5	2015.0	2018.5	2025.6	2046.9	2057.6	2064.6	2075.2	2096.6	2117.9	2149.8
35°	1816.4	1823.4	1827.0	1841.1	1841.1	1858.9	1862.5	1869.5	1901.5	1915.6	1940.5
37.5°	1603.5	1610.6	1614.1	1621.2	1635.4	1642.5	1653.1	1663.8	1685.1	1709.9	1724.1
40°	1415.5	1415.5	1419.0	1426.1	1436.8	1440.2	1451.0	1465.1	1479.4	1500.6	1514.8
42.5°	1238.1	1241.6	1238.1	1245.1	1255.9	1270.0	1266.5	1284.2	1287.8	1302.0	1312.6
45°	1099.8	1099.8	1092.6	1099.8	1099.8	1113.9	1110.4	1117.5	1113.9	1121.0	1113.9
47.5°	968.5	972.0	968.5	972.0	972.0	972.0	975.6	968.5	972.0	961.4	940.1
50°	865.6	869.1	862.0	865.6	862.0	858.5	862.0	851.4	847.9	833.6	812.4
52.5°	776.9	773.4	769.9	769.9	769.9	766.2	762.8	752.1	741.4	727.2	702.4
55°	698.9	695.4	691.8	691.8	684.6	681.1	681.1	670.5	659.9	642.1	613.8
57.5°	627.9	624.4	620.9	620.9	617.2	610.1	610.1	599.5	585.4	564.0	539.2
60°	560.5	560.5	560.5	557.0	557.0	549.9	549.9	539.2	525.0	503.8	475.4
62.5°	500.2	496.6	496.6	496.6	496.6	493.1	489.5	482.5	468.2	447.0	422.1
65°	429.2	429.2	429.2	429.2	425.8	425.8	425.8	415.0	408.0	386.6	361.9
67.5°	351.2	351.2	351.2	351.2	347.6	351.2	351.2	344.1	337.0	315.8	294.5
70°	280.2	276.8	273.1	276.8	273.1	273.1	276.8	269.6	266.1	248.4	227.0
72.5°	205.8	209.2	205.8	205.8	205.8	202.2	205.8	202.2	195.1	180.9	166.8
75°	145.5	149.0	149.0	145.5	145.5	145.5	141.9	141.9	134.8	124.1	117.1
77.5°	99.4	99.4	99.4	99.4	95.8	95.8	95.8	92.2	88.8	81.6	74.5
80°	63.9	63.9	63.9	63.9	60.2	60.2	60.2	56.8	56.8	49.6	42.6
82.5°	39.0	39.0	39.0	39.0	39.0	39.0	35.5	35.5	31.9	28.4	24.9
85°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	17.8	17.8	14.2	10.6
87.5°	7.1	7.1	10.6	10.6	10.6	10.6	10.6	10.6	7.1	7.1	7.1
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: P252633

CATALOG NUMBER: LE_6B60D010R EC6B60709727 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6
2.5°	3054.4	3058.0	3058.0	3058.0	3068.6	3072.1	3061.5	3050.9	3072.1	3068.6	3075.8
5°	3019.0	3029.6	3036.6	3040.2	3050.9	3058.0	3047.4	3043.8	3061.5	3065.1	3068.6
7.5°	2976.4	2994.1	3011.9	3019.0	3033.1	3040.2	3036.6	3036.6	3058.0	3065.1	3065.1
10°	2948.0	2972.9	2994.1	3011.9	3029.6	3040.2	3040.2	3043.8	3068.6	3075.8	3082.8
12.5°	2940.9	2972.9	3001.2	3026.0	3040.2	3058.0	3061.5	3072.1	3097.0	3107.6	3107.6
15°	2923.1	2965.8	3001.2	3033.1	3054.4	3075.8	3082.8	3104.1	3132.5	3139.6	3146.6
17.5°	2891.2	2933.8	2976.4	3015.4	3043.8	3061.5	3082.8	3104.1	3139.6	3150.2	3153.8
20°	2834.5	2884.1	2926.8	2965.8	2994.1	3019.0	3040.2	3065.1	3097.0	3111.1	3114.8
22.5°	2749.4	2799.0	2841.6	2884.1	2912.5	2933.8	2955.1	2983.5	3015.4	3029.6	3029.6
25°	2646.5	2692.6	2738.8	2770.6	2799.0	2823.9	2834.5	2866.4	2898.4	2916.1	2916.1
27.5°	2515.2	2557.8	2600.4	2635.9	2653.5	2674.9	2692.6	2721.0	2745.8	2760.0	2774.1
30°	2348.5	2391.0	2430.0	2465.5	2486.9	2508.1	2525.9	2547.1	2572.0	2589.8	2593.2
32.5°	2167.5	2203.0	2242.0	2277.5	2298.8	2305.9	2323.6	2344.9	2366.2	2380.4	2384.0
35°	1968.9	1993.8	2018.5	2050.5	2071.8	2071.8	2089.5	2103.6	2121.4	2153.4	2146.2
37.5°	1734.8	1770.2	1788.0	1798.6	1812.8	1827.0	1830.5	1848.2	1869.5	1876.6	1887.2
40°	1514.8	1525.5	1536.1	1536.1	1550.2	1550.2	1550.2	1553.9	1575.1	1578.6	1592.9
42.5°	1294.9	1294.9	1284.2	1273.6	1277.1	1273.6	1255.9	1255.9	1266.5	1280.6	1280.6
45°	1089.1	1064.2	1032.4	1007.5	989.8	982.6	961.4	961.4	957.9	961.4	975.6
47.5°	915.2	872.8	819.5	769.9	752.1	737.9	706.0	691.8	684.6	688.2	695.4
50°	769.9	723.8	663.4	603.1	571.1	553.4	514.4	489.5	486.0	478.9	493.1
52.5°	663.4	606.6	542.8	471.9	439.9	411.5	369.0	347.6	333.5	333.5	337.0
55°	571.1	510.9	439.9	369.0	337.0	315.8	273.1	244.8	230.6	227.0	237.6
57.5°	493.1	436.4	365.4	294.5	262.5	237.6	195.1	170.2	159.6	152.5	156.1
60°	432.8	376.0	305.1	237.6	209.2	180.9	145.5	117.1	102.9	102.9	106.4
62.5°	376.0	322.9	259.0	195.1	170.2	145.5	106.4	81.6	71.0	67.4	71.0
65°	319.2	269.6	216.4	163.1	138.4	117.1	85.1	63.9	49.6	46.1	49.6
67.5°	259.0	220.0	173.9	131.2	110.0	92.2	63.9	46.1	35.5	31.9	35.5
70°	202.2	166.8	131.2	95.8	81.6	67.4	46.1	35.5	24.9	21.2	24.9
72.5°	145.5	120.6	92.2	67.4	56.8	46.1	31.9	24.9	17.8	14.2	17.8
75°	99.4	81.6	60.2	42.6	35.5	31.9	21.2	14.2	10.6	10.6	10.6
77.5°	63.9	49.6	39.0	28.4	21.2	17.8	10.6	7.1	7.1	7.1	7.1
80°	35.5	28.4	21.2	14.2	10.6	10.6	7.1	7.1	3.5	3.5	3.5
82.5°	21.2	14.2	10.6	7.1	7.1	3.5	3.5	3.5	3.5	3.5	3.5
85°	10.6	7.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	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: P252633

CATALOG NUMBER: LE_6B60D010R EC6B60709727 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6
2.5°	3061.5	3065.1	3054.4	3068.6	3058.0	3072.1	3072.1	3058.0	3061.5	3054.4	3068.6
5°	3054.4	3054.4	3047.4	3058.0	3043.8	3058.0	3054.4	3029.6	3036.6	3022.5	3036.6
7.5°	3054.4	3047.4	3036.6	3047.4	3029.6	3040.2	3026.0	3001.2	2994.1	2976.4	2976.4
10°	3065.1	3054.4	3040.2	3043.8	3026.0	3029.6	3008.2	2972.9	2962.2	2940.9	2933.8
12.5°	3089.9	3079.2	3058.0	3065.1	3040.2	3040.2	3011.9	2969.2	2948.0	2919.6	2912.5
15°	3125.4	3107.6	3082.8	3086.4	3061.5	3047.4	3011.9	2962.2	2933.8	2894.8	2884.1
17.5°	3132.5	3114.8	3082.8	3082.8	3050.9	3033.1	2990.6	2933.8	2898.4	2859.2	2838.0
20°	3093.5	3075.8	3040.2	3036.6	3008.2	2983.5	2937.4	2880.6	2845.1	2802.5	2784.8
22.5°	3011.9	2990.6	2958.6	2955.1	2926.8	2912.5	2862.9	2806.1	2770.6	2728.0	2713.9
25°	2891.2	2880.6	2848.6	2845.1	2820.2	2802.5	2760.0	2706.8	2674.9	2632.2	2618.1
27.5°	2749.4	2738.8	2706.8	2706.8	2678.4	2667.8	2628.8	2579.0	2554.2	2515.2	2497.5
30°	2579.0	2564.9	2547.1	2543.6	2518.8	2508.1	2472.6	2426.5	2401.6	2369.8	2362.6
32.5°	2376.9	2366.2	2355.5	2352.0	2327.1	2316.5	2291.8	2245.6	2224.2	2195.9	2185.2
35°	2142.8	2135.6	2125.0	2121.4	2110.8	2100.1	2075.2	2039.9	2029.2	2007.9	1997.2
37.5°	1873.1	1880.2	1873.1	1873.1	1862.5	1866.0	1844.8	1823.4	1812.8	1798.6	1791.5
40°	1582.2	1596.4	1607.0	1607.0	1603.5	1617.6	1614.1	1596.4	1592.9	1585.8	1582.2
42.5°	1287.8	1294.9	1316.1	1330.4	1326.8	1362.2	1365.8	1380.0	1390.6	1383.5	1387.1
45°	979.1	1000.4	1028.8	1043.0	1060.8	1106.9	1131.6	1160.0	1184.9	1199.1	1195.5
47.5°	706.0	730.8	762.8	784.0	815.9	872.8	936.5	972.0	1007.5	1025.2	1043.0
50°	510.9	535.6	574.8	606.6	627.9	706.0	773.4	819.5	858.5	883.4	901.1
52.5°	358.2	386.6	429.2	457.6	489.5	564.0	642.1	695.4	737.9	769.9	787.5
55°	248.4	280.2	319.2	347.6	383.1	461.1	535.6	592.5	638.5	666.9	688.2
57.5°	173.9	202.2	241.2	266.1	301.5	376.0	450.5	507.2	553.4	581.8	606.6
60°	117.1	145.5	184.5	209.2	237.6	312.1	379.6	439.9	482.5	510.9	535.6
62.5°	81.6	106.4	145.5	170.2	195.1	259.0	322.9	376.0	418.6	450.5	471.9
65°	63.9	85.1	117.1	138.4	163.1	216.4	269.6	315.8	358.2	390.2	404.4
67.5°	46.1	67.4	92.2	110.0	127.8	173.9	220.0	255.4	294.5	319.2	337.0
70°	31.9	46.1	67.4	81.6	95.8	131.2	166.8	198.6	227.0	244.8	259.0
72.5°	24.9	31.9	46.1	56.8	67.4	92.2	120.6	145.5	166.8	180.9	195.1
75°	14.2	21.2	31.9	39.0	46.1	63.9	81.6	99.4	113.5	124.1	131.2
77.5°	7.1	10.6	17.8	21.2	28.4	39.0	53.2	63.9	74.5	81.6	88.8
80°	7.1	7.1	10.6	10.6	14.2	21.2	28.4	35.5	42.6	49.6	53.2
82.5°	3.5	3.5	7.1	7.1	7.1	10.6	14.2	21.2	24.9	28.4	31.9
85°	3.5	3.5	3.5	3.5	3.5	7.1	7.1	10.6	14.2	17.8	17.8
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	7.1	7.1	7.1	10.6
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: P252633

CATALOG NUMBER: LE_6B60D010R EC6B60709727 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6	3068.6
2.5°	3058.0	3065.1	3061.5	3068.6	3058.0	3054.4	3061.5	3050.9
5°	3019.0	3022.5	3019.0	3019.0	3011.9	3004.8	3011.9	3001.2
7.5°	2958.6	2958.6	2948.0	2948.0	2933.8	2926.8	2926.8	2923.1
10°	2909.0	2898.4	2887.8	2891.2	2870.0	2862.9	2859.2	2855.8
12.5°	2884.1	2877.0	2859.2	2859.2	2838.0	2830.9	2827.4	2823.9
15°	2855.8	2841.6	2827.4	2823.9	2806.1	2799.0	2795.5	2788.4
17.5°	2806.1	2795.5	2777.8	2777.8	2760.0	2756.4	2749.4	2745.8
20°	2752.9	2738.8	2724.5	2724.5	2703.2	2703.2	2692.6	2696.1
22.5°	2678.4	2667.8	2653.5	2653.5	2635.9	2632.2	2621.6	2618.1
25°	2589.8	2575.5	2564.9	2561.4	2547.1	2540.0	2536.5	2529.4
27.5°	2472.6	2462.0	2451.4	2444.2	2426.5	2423.0	2412.4	2415.9
30°	2327.1	2320.1	2316.5	2309.5	2288.1	2281.0	2281.0	2270.4
32.5°	2167.5	2156.9	2149.8	2139.1	2121.4	2117.9	2107.2	2110.8
35°	1972.4	1958.2	1947.6	1951.1	1929.9	1926.2	1919.2	1922.8
37.5°	1770.2	1756.0	1741.9	1738.2	1720.5	1720.5	1709.9	1709.9
40°	1560.9	1546.8	1539.6	1539.6	1518.4	1521.9	1511.2	1507.8
42.5°	1372.9	1358.8	1355.1	1351.6	1341.0	1337.4	1326.8	1330.4
45°	1195.5	1192.0	1192.0	1184.9	1174.2	1170.6	1174.2	1174.2
47.5°	1039.4	1043.0	1039.4	1039.4	1032.4	1039.4	1032.4	1035.9
50°	908.1	915.2	915.2	915.2	911.8	915.2	915.2	918.8
52.5°	798.2	808.9	805.2	808.9	805.2	812.4	808.9	812.4
55°	702.4	709.5	713.0	716.6	716.6	716.6	716.6	716.6
57.5°	613.8	624.4	627.9	631.5	631.5	638.5	631.5	631.5
60°	542.8	553.4	557.0	560.5	560.5	564.0	557.0	560.5
62.5°	478.9	489.5	489.5	493.1	493.1	493.1	486.0	489.5
65°	415.0	418.6	422.1	422.1	418.6	418.6	415.0	418.6
67.5°	344.1	347.6	344.1	344.1	340.6	340.6	333.5	337.0
70°	266.1	266.1	269.6	266.1	262.5	266.1	262.5	259.0
72.5°	198.6	198.6	198.6	195.1	195.1	191.6	195.1	195.1
75°	134.8	134.8	138.4	138.4	138.4	138.4	134.8	134.8
77.5°	88.8	88.8	88.8	88.8	92.2	88.8	88.8	88.8
80°	56.8	56.8	60.2	60.2	56.8	56.8	56.8	56.8
82.5°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
85°	21.2	21.2	21.2	21.2	17.8	17.8	17.8	17.8
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	7.1	7.1
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)