

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: P252525

Luminaire Tested: **LE_6B60D010R EC6B60709030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60709030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412.5 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

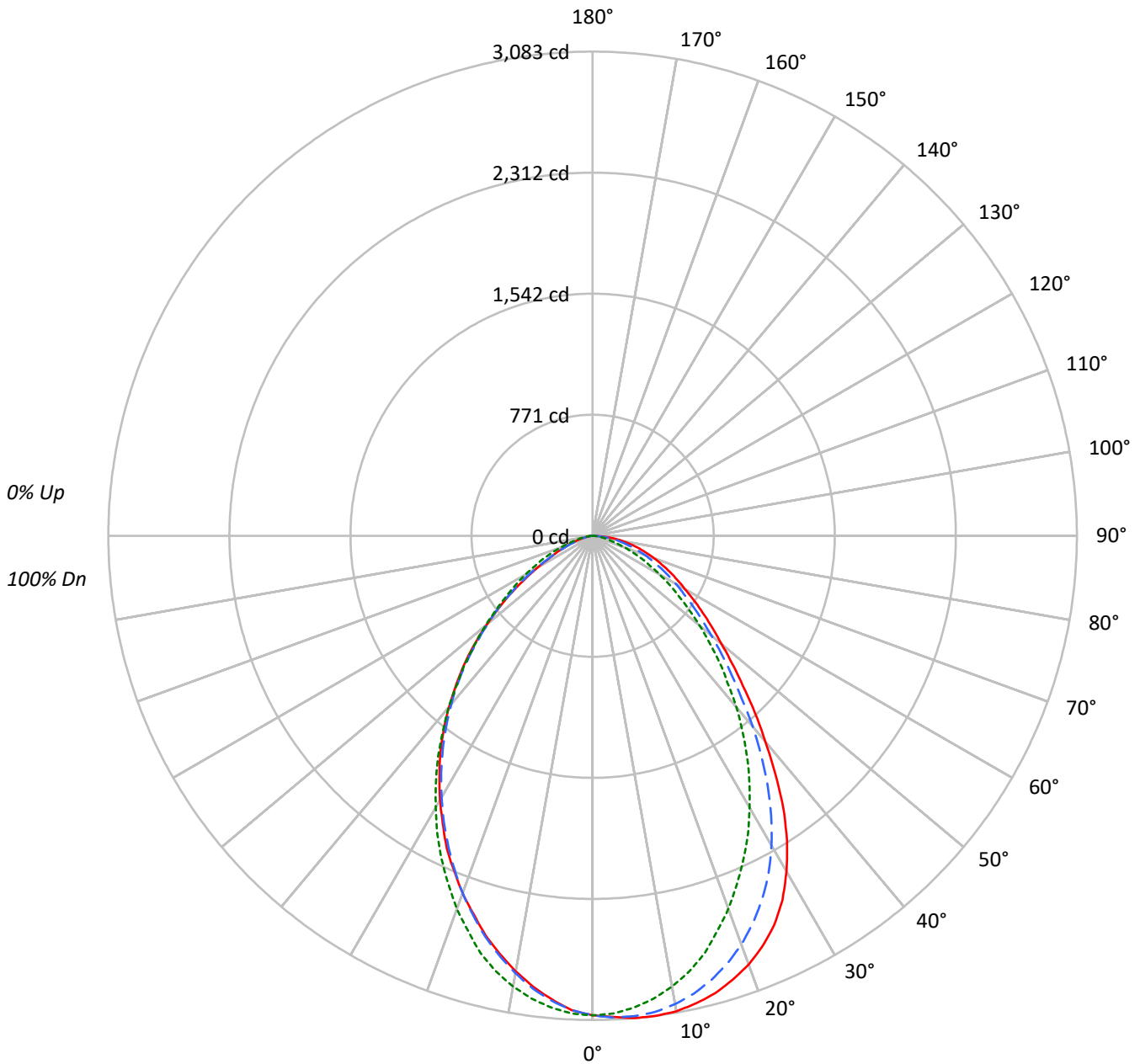
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39				
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	199212	199212	199212
5°	201912	197465	194138
10°	203683	193011	186552
15°	203653	185903	177879
20°	201687	175485	168119
25°	196908	163629	158137
30°	185938	150478	146328
35°	168543	136462	134766
40°	145557	121361	121003
45°	124824	105642	106427
50°	108479	90393	89104
55°	97433	76220	71385
60°	88532	64197	52571
65°	83145	53027	38624
70°	79276	41240	28307
75°	75898	29946	19258
80°	71722	20701	12736
85°	63552	12725	6363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	5.3
10°-20°	782.3	14.5
20°-30°	1086.0	20.1
30°-40°	1124.9	20.8
40°-50°	924.4	17.1
50°-60°	635.3	11.7
60°-70°	365.2	6.7
70°-80°	167.9	3.1
80°-90°	40.9	0.8
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°	2153.9	39.8
0°-40°	3278.8	60.6
0°-60°	4838.5	89.4
0°-90°	5412.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5412.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3054	3054	3054	3054	3054	
5°	3083	3070	3015	2973	2964	294
15°	3015	2926	2752	2642	2634	849
25°	2735	2553	2273	2176	2197	1252
35°	2116	1942	1713	1662	1692	1312
45°	1353	1251	1145	1132	1154	1054
55°	857	776	670	632	628	771
65°	539	471	344	242	250	536
75°	301	238	119	76	76	318
85°	85	59	17	8	8	95
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°	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5
2.5°	3066.1	3091.6	3074.6	3070.4	3078.9	3078.9	3078.9	3066.1	3074.6	3061.9	3070.4
5°	3083.1	3104.4	3087.4	3078.9	3087.4	3091.6	3078.9	3070.4	3083.1	3066.1	3070.4
7.5°	3083.1	3104.4	3087.4	3083.1	3087.4	3087.4	3083.1	3066.1	3074.6	3057.8	3057.8
10°	3074.6	3091.6	3074.6	3066.1	3070.4	3066.1	3066.1	3045.0	3049.2	3028.0	3028.0
12.5°	3049.2	3070.4	3049.2	3040.8	3040.8	3040.8	3028.0	3011.0	3015.2	2989.9	2985.6
15°	3015.2	3032.2	3011.0	3002.5	3002.5	2998.4	2989.9	2964.4	2964.4	2939.0	2926.2
17.5°	2964.4	2981.4	2964.4	2951.6	2947.4	2939.0	2930.5	2905.0	2896.5	2866.9	2854.1
20°	2905.0	2917.8	2900.8	2888.0	2879.6	2871.1	2854.1	2828.6	2820.2	2790.5	2769.2
22.5°	2828.6	2845.6	2820.2	2807.5	2799.0	2786.2	2769.2	2743.9	2731.1	2693.0	2667.5
25°	2735.4	2743.9	2722.6	2710.0	2693.0	2684.5	2671.8	2637.9	2625.1	2582.8	2553.0
27.5°	2616.6	2625.1	2599.6	2591.2	2570.0	2561.5	2544.5	2514.9	2497.9	2455.5	2425.8
30°	2468.2	2476.8	2459.8	2447.0	2430.0	2413.1	2400.4	2370.6	2345.2	2302.8	2277.4
32.5°	2302.8	2315.5	2298.6	2281.6	2251.9	2256.1	2235.0	2205.2	2184.1	2145.9	2116.2
35°	2116.2	2124.8	2103.5	2099.2	2082.2	2065.4	2044.1	2022.9	2010.2	1967.8	1942.4
37.5°	1908.4	1929.6	1908.4	1891.5	1883.0	1870.2	1857.5	1827.9	1819.4	1793.9	1760.0
40°	1709.1	1721.8	1709.1	1692.1	1679.4	1679.4	1662.4	1645.5	1624.2	1598.9	1586.1
42.5°	1531.0	1522.5	1518.2	1509.8	1492.8	1488.5	1484.4	1463.1	1450.4	1425.0	1403.8
45°	1352.9	1357.1	1348.6	1344.4	1331.6	1323.1	1314.6	1297.8	1293.5	1268.0	1251.1
47.5°	1204.4	1200.1	1191.8	1191.8	1183.2	1174.8	1166.2	1153.5	1149.2	1128.1	1111.1
50°	1068.8	1073.0	1068.8	1064.5	1051.8	1047.5	1039.0	1030.5	1022.0	1000.9	983.9
52.5°	958.5	954.2	950.0	950.0	937.2	933.0	924.5	916.0	907.5	886.4	873.6
55°	856.6	856.6	852.4	848.1	835.5	831.2	827.0	818.5	805.8	788.8	776.1
57.5°	763.4	763.4	759.1	754.9	746.4	746.4	737.9	729.4	721.0	704.0	687.0
60°	678.5	682.8	678.5	674.2	665.9	665.9	661.6	648.9	644.6	623.4	610.8
62.5°	606.5	606.5	606.5	602.2	598.0	589.5	589.5	576.8	568.2	555.5	538.6
65°	538.6	538.6	538.6	534.4	525.9	521.6	517.4	508.9	500.4	487.8	470.8
67.5°	475.0	475.0	475.0	470.8	462.2	458.0	453.8	449.5	436.9	424.1	407.1
70°	415.6	415.6	411.4	407.1	402.9	398.6	394.4	385.9	377.5	360.5	347.8
72.5°	356.2	356.2	356.2	347.8	343.5	343.5	335.0	330.8	322.2	305.4	292.6
75°	301.1	296.9	296.9	292.6	288.4	284.1	279.9	275.6	262.9	254.5	237.5
77.5°	246.0	246.0	241.8	237.5	237.5	233.2	229.0	220.5	216.2	203.6	190.9
80°	190.9	190.9	190.9	190.9	186.6	182.4	182.4	173.9	169.6	156.9	148.4
82.5°	144.2	140.0	140.0	140.0	135.8	131.5	131.5	127.2	123.0	114.5	106.0
85°	84.9	80.6	80.6	80.6	76.4	76.4	72.1	72.1	67.9	59.4	59.4
87.5°	25.5	25.5	29.6	29.6	25.5	25.5	25.5	25.5	25.5	21.2	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°	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5
2.5°	3061.9	3074.6	3057.8	3053.5	3070.4	3061.9	3057.8	3049.2	3053.5	3045.0	3032.2
5°	3057.8	3074.6	3053.5	3040.8	3061.9	3049.2	3040.8	3032.2	3032.2	3015.2	3006.8
7.5°	3045.0	3053.5	3032.2	3019.5	3032.2	3019.5	3011.0	2998.4	2994.1	2972.9	2960.1
10°	3011.0	3019.5	2994.1	2977.1	2989.9	2972.9	2960.1	2947.4	2939.0	2913.5	2896.5
12.5°	2964.4	2968.6	2939.0	2917.8	2926.2	2913.5	2892.2	2875.4	2866.9	2841.4	2820.2
15°	2900.8	2905.0	2871.1	2841.4	2849.9	2832.9	2807.5	2790.5	2777.8	2752.4	2722.6
17.5°	2824.5	2820.2	2782.0	2752.4	2756.6	2735.4	2710.0	2684.5	2667.5	2637.9	2616.6
20°	2739.6	2726.9	2684.5	2650.6	2654.8	2629.4	2599.6	2574.2	2553.0	2527.6	2497.9
22.5°	2633.6	2616.6	2578.5	2536.0	2540.2	2519.1	2476.8	2455.5	2434.2	2400.4	2374.9
25°	2519.1	2493.6	2455.5	2413.1	2413.1	2387.6	2353.8	2328.2	2307.0	2273.1	2243.5
27.5°	2383.4	2370.6	2319.8	2285.9	2281.6	2256.1	2226.5	2196.8	2171.4	2141.6	2112.0
30°	2235.0	2213.8	2175.6	2137.4	2128.9	2107.8	2078.0	2044.1	2027.1	1997.5	1972.0
32.5°	2078.0	2056.9	2014.4	1976.2	1972.0	1955.0	1929.6	1895.6	1878.8	1857.5	1840.5
35°	1899.9	1891.5	1849.0	1819.4	1819.4	1802.4	1777.0	1747.2	1734.5	1713.4	1692.1
37.5°	1730.2	1717.6	1679.4	1654.0	1654.0	1632.8	1607.2	1594.6	1581.9	1564.9	1552.1
40°	1552.1	1543.8	1514.0	1488.5	1492.8	1475.9	1458.9	1441.9	1433.4	1425.0	1412.2
42.5°	1386.8	1378.2	1357.1	1335.9	1335.9	1323.1	1306.2	1293.5	1285.0	1272.2	1268.0
45°	1238.4	1225.6	1208.6	1187.5	1187.5	1174.8	1166.2	1157.8	1153.5	1145.0	1132.4
47.5°	1094.1	1085.6	1068.8	1047.5	1047.5	1047.5	1030.5	1017.9	1017.9	1009.4	1005.1
50°	971.1	958.5	945.8	928.8	928.8	920.2	907.5	894.9	894.9	890.6	882.1
52.5°	856.6	848.1	831.2	814.2	814.2	805.8	793.0	788.8	784.6	771.9	767.6
55°	759.1	750.6	737.9	716.8	712.5	708.2	695.5	687.0	682.8	670.1	670.1
57.5°	670.1	661.6	640.4	627.6	623.4	614.9	602.2	593.8	589.5	581.0	572.5
60°	593.8	581.0	564.0	547.1	542.9	534.4	521.6	513.1	508.9	492.0	483.5
62.5°	521.6	508.9	492.0	475.0	470.8	462.2	445.2	436.9	428.4	411.4	402.9
65°	453.8	441.0	424.1	407.1	398.6	394.4	377.5	364.8	356.2	343.5	326.5
67.5°	390.1	377.5	360.5	339.2	339.2	326.5	313.9	301.1	288.4	275.6	262.9
70°	330.8	318.1	301.1	284.1	279.9	271.4	258.8	241.8	233.2	216.2	203.6
72.5°	275.6	262.9	246.0	229.0	224.8	216.2	203.6	186.6	173.9	161.1	148.4
75°	224.8	212.0	195.1	182.4	178.1	169.6	156.9	140.0	127.2	118.8	106.0
77.5°	178.1	165.4	152.6	140.0	135.8	127.2	114.5	106.0	93.2	84.9	72.1
80°	135.8	127.2	114.5	106.0	101.8	93.2	84.9	72.1	63.6	55.1	50.9
82.5°	97.5	89.0	80.6	67.9	67.9	59.4	55.1	46.6	38.1	33.9	29.6
85°	55.1	46.6	42.4	38.1	33.9	33.9	29.6	25.5	21.2	17.0	17.0
87.5°	17.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5
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°	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5
2.5°	3032.2	3036.5	3028.0	3036.5	3028.0	3032.2	3023.8	3032.2	3023.8	3032.2	3015.2
5°	3002.5	3002.5	2989.9	2998.4	2989.9	2994.1	2977.1	2981.4	2972.9	2981.4	2964.4
7.5°	2951.6	2955.9	2934.8	2943.2	2930.5	2930.5	2917.8	2922.0	2909.2	2913.5	2900.8
10°	2892.2	2888.0	2866.9	2875.4	2858.4	2858.4	2845.6	2845.6	2828.6	2832.9	2816.0
12.5°	2807.5	2803.2	2777.8	2786.2	2769.2	2769.2	2756.6	2756.6	2739.6	2748.1	2731.1
15°	2710.0	2705.8	2680.2	2684.5	2667.5	2667.5	2650.6	2654.8	2642.1	2650.6	2633.6
17.5°	2599.6	2595.4	2570.0	2574.2	2553.0	2557.2	2544.5	2540.2	2531.9	2536.0	2523.4
20°	2485.1	2476.8	2451.2	2455.5	2447.0	2434.2	2425.8	2430.0	2421.5	2430.0	2417.4
22.5°	2366.4	2349.5	2328.2	2328.2	2319.8	2319.8	2307.0	2315.5	2298.6	2311.2	2302.8
25°	2230.8	2218.0	2201.0	2209.5	2192.5	2192.5	2179.9	2184.1	2175.6	2184.1	2175.6
27.5°	2099.2	2090.8	2065.4	2073.8	2061.1	2065.4	2052.6	2056.9	2052.6	2061.1	2052.6
30°	1959.2	1955.0	1938.1	1938.1	1933.9	1929.6	1925.4	1925.4	1921.1	1933.9	1925.4
32.5°	1827.9	1815.1	1798.1	1810.9	1789.6	1802.4	1793.9	1802.4	1793.9	1802.4	1798.1
35°	1692.1	1687.9	1666.6	1670.9	1666.6	1666.6	1662.4	1662.4	1662.4	1675.1	1675.1
37.5°	1547.9	1543.8	1531.0	1535.2	1526.8	1522.5	1522.5	1531.0	1531.0	1539.5	1539.5
40°	1408.0	1412.2	1399.5	1399.5	1395.2	1395.2	1395.2	1403.8	1399.5	1408.0	1403.8
42.5°	1268.0	1268.0	1255.2	1259.5	1255.2	1259.5	1259.5	1268.0	1268.0	1272.2	1268.0
45°	1136.5	1136.5	1132.4	1136.5	1128.1	1132.4	1128.1	1136.5	1132.4	1136.5	1136.5
47.5°	1005.1	1005.1	1005.1	1000.9	1000.9	1000.9	1000.9	1000.9	996.6	1005.1	1000.9
50°	882.1	886.4	882.1	882.1	877.9	882.1	877.9	877.9	869.4	873.6	873.6
52.5°	771.9	771.9	763.4	763.4	763.4	759.1	759.1	759.1	754.9	754.9	746.4
55°	665.9	665.9	657.4	657.4	653.1	648.9	644.6	644.6	631.9	631.9	619.1
57.5°	568.2	564.0	551.4	551.4	542.9	538.6	534.4	530.1	521.6	513.1	508.9
60°	479.2	470.8	462.2	458.0	449.5	441.0	432.6	424.1	415.6	411.4	407.1
62.5°	394.4	381.6	373.2	369.0	360.5	347.8	339.2	330.8	322.2	318.1	309.6
65°	318.1	305.4	292.6	288.4	279.9	271.4	258.8	250.2	241.8	237.5	237.5
67.5°	250.2	237.5	220.5	220.5	212.0	203.6	195.1	186.6	182.4	186.6	186.6
70°	186.6	178.1	165.4	161.1	152.6	144.2	140.0	140.0	140.0	144.2	140.0
72.5°	140.0	127.2	118.8	114.5	110.2	106.0	106.0	106.0	101.8	106.0	106.0
75°	97.5	89.0	80.6	80.6	76.4	76.4	76.4	76.4	76.4	76.4	76.4
77.5°	67.9	59.4	55.1	55.1	55.1	50.9	50.9	50.9	50.9	50.9	50.9
80°	42.4	42.4	38.1	38.1	33.9	33.9	33.9	33.9	33.9	33.9	33.9
82.5°	25.5	25.5	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
85°	12.8	12.8	12.8	12.8	12.8	8.5	8.5	8.5	8.5	8.5	8.5
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P252525

CATALOG NUMBER: LE_6B60D010R EC6B60709030 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5	3053.5
2.5°	3015.2	3028.0	3011.0	3023.8	3019.5	3015.2	3006.8	3023.8
5°	2964.4	2968.6	2951.6	2968.6	2964.4	2955.9	2947.4	2964.4
7.5°	2892.2	2905.0	2883.9	2900.8	2896.5	2888.0	2879.6	2896.5
10°	2811.8	2824.5	2807.5	2820.2	2820.2	2811.8	2799.0	2816.0
12.5°	2722.6	2731.1	2714.1	2731.1	2726.9	2718.4	2714.1	2726.9
15°	2625.1	2637.9	2620.9	2633.6	2629.4	2625.1	2620.9	2633.6
17.5°	2519.1	2531.9	2519.1	2531.9	2531.9	2519.1	2514.9	2523.4
20°	2413.1	2421.5	2408.9	2421.5	2417.4	2417.4	2408.9	2421.5
22.5°	2294.4	2307.0	2298.6	2307.0	2302.8	2302.8	2298.6	2307.0
25°	2175.6	2188.2	2175.6	2188.2	2184.1	2184.1	2175.6	2196.8
27.5°	2056.9	2065.4	2052.6	2069.5	2065.4	2056.9	2061.1	2065.4
30°	1929.6	1938.1	1929.6	1942.4	1942.4	1942.4	1933.9	1942.4
32.5°	1802.4	1815.1	1802.4	1815.1	1810.9	1810.9	1806.6	1815.1
35°	1675.1	1679.4	1670.9	1683.6	1683.6	1687.9	1679.4	1692.1
37.5°	1543.8	1547.9	1543.8	1547.9	1556.4	1543.8	1552.1	1556.4
40°	1408.0	1416.5	1412.2	1416.5	1416.5	1420.8	1416.5	1420.8
42.5°	1272.2	1280.8	1272.2	1285.0	1280.8	1280.8	1285.0	1285.0
45°	1132.4	1145.0	1136.5	1145.0	1149.2	1145.0	1145.0	1153.5
47.5°	1000.9	1009.4	1005.1	1009.4	1009.4	1009.4	1009.4	1017.9
50°	869.4	873.6	873.6	877.9	877.9	882.1	873.6	877.9
52.5°	737.9	746.4	746.4	746.4	742.1	746.4	746.4	746.4
55°	619.1	623.4	614.9	623.4	623.4	619.1	619.1	627.6
57.5°	504.6	504.6	504.6	504.6	504.6	500.4	504.6	504.6
60°	398.6	402.9	398.6	398.6	398.6	398.6	394.4	402.9
62.5°	309.6	309.6	305.4	309.6	309.6	309.6	313.9	313.9
65°	241.8	246.0	241.8	246.0	246.0	246.0	246.0	250.2
67.5°	190.9	190.9	190.9	190.9	190.9	190.9	190.9	190.9
70°	144.2	144.2	144.2	148.4	144.2	144.2	144.2	148.4
72.5°	106.0	106.0	106.0	106.0	106.0	106.0	110.2	110.2
75°	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
77.5°	50.9	50.9	50.9	55.1	50.9	55.1	50.9	50.9
80°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
82.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
85°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
87.5°	8.5	8.5	8.5	8.5	4.2	4.2	4.2	4.2
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)