

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: P252596

Luminaire Tested: **LE_6B40D010 EC6B30508027 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252596
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_6B40D010 EC6B30508027 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4978.8 lumens
Efficiency: N/A
Efficacy: 115.8 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

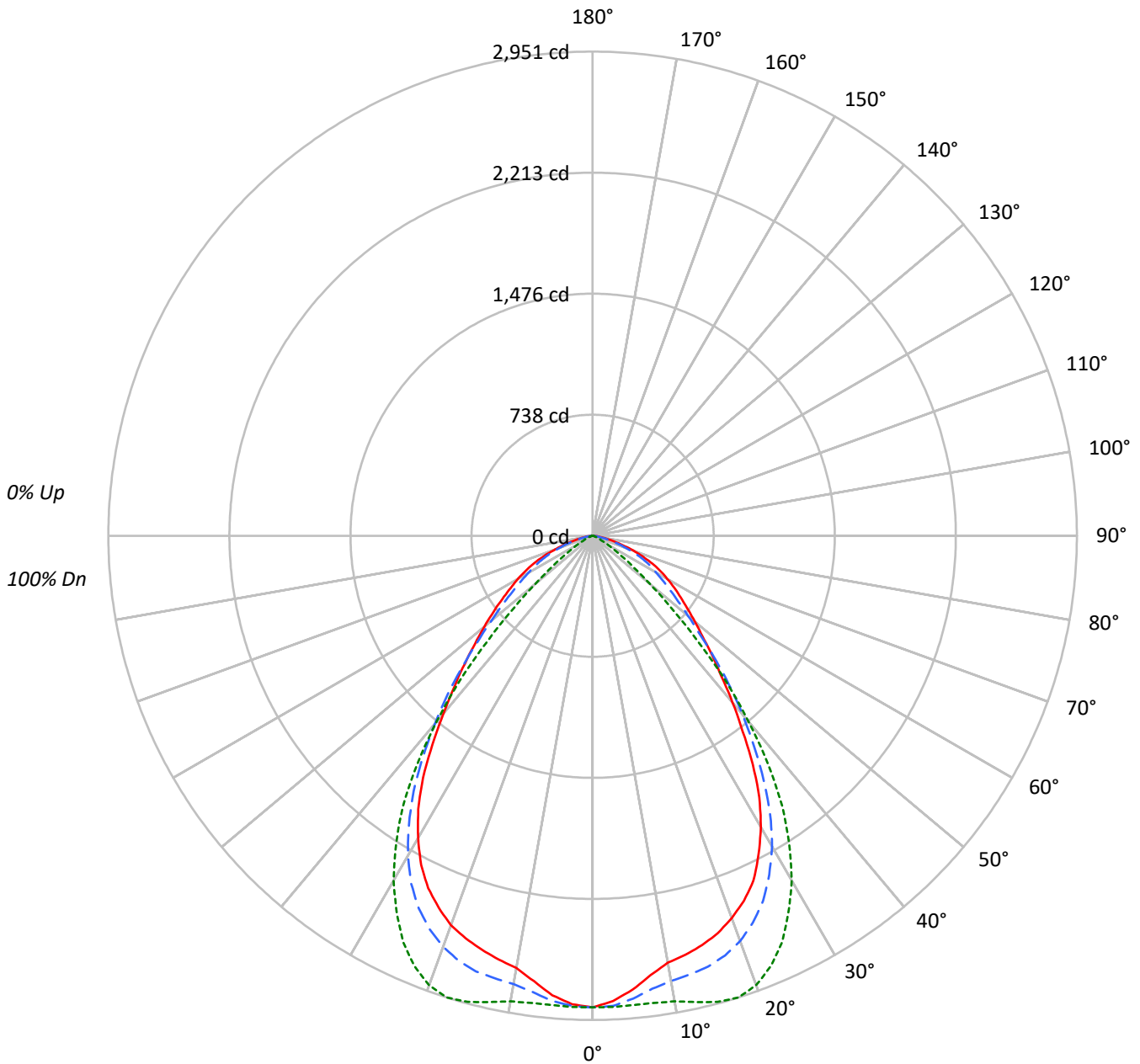
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	70	70	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56	56	56	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50	50	50	50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46	46	46	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42	42	42	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	187534	187534	187534
5°	181937	188028	184118
10°	175018	190864	177218
15°	174394	198641	176420
20°	172111	202340	175339
25°	166969	196634	170561
30°	154464	182751	160219
35°	135506	160650	143447
40°	112921	125943	120288
45°	95041	83084	101491
50°	82303	45531	87348
55°	74457	24182	76345
60°	68503	12578	68503
65°	62073	6669	60529
70°	50072	3815	46276
75°	34332	2521	31811
80°	22505	1277	19950
85°	14971	2545	12426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	5.4
10°-20°	775.1	15.6
20°-30°	1145.2	23.0
30°-40°	1156.7	23.2
40°-50°	797.3	16.0
50°-60°	457.9	9.2
60°-70°	266.5	5.4
70°-80°	97.2	2.0
80°-90°	14.9	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°	2188.3	44.0
0°-40°	3345.0	67.2
0°-60°	4600.1	92.4
0°-90°	4978.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4978.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2874	2874	2874	2874	2874	
5°	2778	2831	2871	2845	2811	261
15°	2582	2718	2941	2748	2612	727
25°	2320	2456	2732	2506	2369	1057
35°	1701	1818	2017	1901	1801	1056
45°	1030	1044	900	1110	1100	801
55°	655	575	213	598	671	589
65°	402	339	43	336	392	394
75°	136	110	10	106	126	153
85°	20	10	3	13	17	25
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°	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5
2.5°	2837.9	2841.2	2844.6	2841.2	2844.6	2857.9	2847.9	2854.5	2854.5	2857.9	2867.9
5°	2778.1	2778.1	2784.8	2781.4	2791.4	2804.8	2794.8	2804.8	2808.0	2814.6	2831.2
7.5°	2701.6	2701.6	2705.0	2705.0	2718.2	2731.6	2725.0	2738.2	2751.5	2764.9	2784.8
10°	2641.9	2648.5	2648.5	2651.9	2665.1	2681.8	2678.4	2695.0	2708.4	2728.2	2754.9
12.5°	2615.2	2618.6	2618.6	2625.2	2638.5	2655.1	2651.9	2668.5	2688.4	2711.6	2738.2
15°	2582.0	2588.8	2585.4	2592.0	2605.2	2621.9	2618.6	2635.2	2658.5	2681.8	2718.2
17.5°	2538.9	2542.1	2545.5	2545.5	2558.8	2572.1	2572.1	2588.8	2615.2	2641.9	2681.8
20°	2479.0	2485.6	2485.6	2489.0	2499.0	2518.9	2515.6	2532.2	2558.8	2585.4	2628.6
22.5°	2409.2	2412.6	2412.6	2415.9	2432.5	2442.5	2445.8	2459.1	2482.4	2512.2	2552.1
25°	2319.5	2322.9	2319.5	2329.5	2336.1	2356.1	2349.4	2366.0	2392.6	2415.9	2455.8
27.5°	2189.9	2196.6	2196.6	2199.9	2216.5	2233.1	2233.1	2249.8	2273.0	2289.6	2329.5
30°	2050.4	2060.4	2050.4	2067.0	2073.6	2086.9	2096.9	2106.9	2126.8	2150.0	2186.6
32.5°	1890.9	1887.5	1890.9	1897.5	1917.4	1927.4	1934.0	1944.0	1964.0	1983.9	2013.8
35°	1701.4	1708.1	1711.4	1724.8	1724.8	1741.2	1744.6	1751.2	1781.1	1794.5	1817.8
37.5°	1502.0	1508.6	1512.0	1518.6	1532.0	1538.6	1548.6	1558.5	1578.5	1601.8	1615.0
40°	1325.9	1325.9	1329.2	1335.9	1345.9	1349.1	1359.1	1372.5	1385.8	1405.6	1419.0
42.5°	1159.8	1163.1	1159.8	1166.4	1176.4	1189.6	1186.4	1203.0	1206.2	1219.6	1229.5
45°	1030.1	1030.1	1023.5	1030.1	1030.1	1043.5	1040.1	1046.8	1043.5	1050.1	1043.5
47.5°	907.2	910.5	907.2	910.5	910.5	910.5	913.9	907.2	910.5	900.5	880.6
50°	810.9	814.1	807.5	810.9	807.5	804.2	807.5	797.5	794.2	780.9	761.0
52.5°	727.8	724.4	721.1	721.1	721.1	717.8	714.5	704.5	694.5	681.2	658.0
55°	654.6	651.4	648.0	648.0	641.4	638.0	638.0	628.1	618.1	601.5	574.9
57.5°	588.2	584.9	581.5	581.5	578.2	571.6	571.6	561.6	548.2	528.4	505.1
60°	525.0	525.0	525.0	521.8	521.8	515.1	515.1	505.1	491.9	471.9	445.2
62.5°	468.5	465.2	465.2	465.2	465.2	461.9	458.6	452.0	438.6	418.8	395.5
65°	402.1	402.1	402.1	402.1	398.8	398.8	398.8	388.8	382.1	362.2	339.0
67.5°	329.0	329.0	329.0	329.0	325.6	329.0	329.0	322.4	315.8	295.8	275.9
70°	262.5	259.2	255.9	259.2	255.9	255.9	259.2	252.5	249.2	232.6	212.6
72.5°	192.8	196.1	192.8	192.8	192.8	189.4	192.8	189.4	182.8	169.5	156.1
75°	136.2	139.6	139.6	136.2	136.2	136.2	132.9	132.9	126.2	116.2	109.6
77.5°	93.0	93.0	93.0	93.0	89.8	89.8	89.8	86.4	83.1	76.4	69.8
80°	59.9	59.9	59.9	59.9	56.5	56.5	56.5	53.1	53.1	46.5	39.9
82.5°	36.5	36.5	36.5	36.5	36.5	36.5	33.2	33.2	29.9	26.6	23.2
85°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	16.6	16.6	13.2	10.0
87.5°	6.6	6.6	10.0	10.0	10.0	10.0	10.0	10.0	6.6	6.6	6.6
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°	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5
2.5°	2861.2	2864.5	2864.5	2864.5	2874.5	2877.8	2867.9	2857.9	2877.8	2874.5	2881.1
5°	2828.0	2837.9	2844.6	2847.9	2857.9	2864.5	2854.5	2851.2	2867.9	2871.1	2874.5
7.5°	2788.1	2804.8	2821.2	2828.0	2841.2	2847.9	2844.6	2844.6	2864.5	2871.1	2871.1
10°	2761.5	2784.8	2804.8	2821.2	2837.9	2847.9	2847.9	2851.2	2874.5	2881.1	2887.8
12.5°	2754.9	2784.8	2811.4	2834.6	2847.9	2864.5	2867.9	2877.8	2901.1	2911.0	2911.0
15°	2738.2	2778.1	2811.4	2841.2	2861.2	2881.1	2887.8	2907.8	2934.2	2941.0	2947.6
17.5°	2708.4	2748.2	2788.1	2824.6	2851.2	2867.9	2887.8	2907.8	2941.0	2950.9	2954.2
20°	2655.1	2701.6	2741.5	2778.1	2804.8	2828.0	2847.9	2871.1	2901.1	2914.4	2917.6
22.5°	2575.4	2621.9	2661.8	2701.6	2728.2	2748.2	2768.1	2794.8	2824.6	2837.9	2837.9
25°	2479.0	2522.2	2565.4	2595.4	2621.9	2645.1	2655.1	2685.1	2715.0	2731.6	2731.6
27.5°	2356.1	2396.0	2435.9	2469.0	2485.6	2505.6	2522.2	2548.9	2572.1	2585.4	2598.6
30°	2199.9	2239.8	2276.4	2309.5	2329.5	2349.4	2366.0	2386.0	2409.2	2425.9	2429.1
32.5°	2030.4	2063.6	2100.2	2133.4	2153.4	2160.0	2176.6	2196.6	2216.5	2229.8	2233.1
35°	1844.4	1867.6	1890.9	1920.8	1940.8	1940.8	1957.2	1970.6	1987.2	2017.1	2010.5
37.5°	1625.0	1658.2	1674.9	1684.8	1698.1	1711.4	1714.8	1731.4	1751.2	1757.9	1767.9
40°	1419.0	1428.9	1438.9	1438.9	1452.2	1452.2	1452.2	1455.5	1475.5	1478.8	1492.1
42.5°	1212.9	1212.9	1203.0	1193.0	1196.4	1193.0	1176.4	1176.4	1186.4	1199.6	1199.6
45°	1020.2	996.9	967.0	943.8	927.1	920.5	900.5	900.5	897.2	900.5	913.9
47.5°	857.4	817.5	767.6	721.1	704.5	691.2	661.2	648.0	641.4	644.6	651.4
50°	721.1	677.9	621.4	564.9	535.0	518.4	481.9	458.6	455.2	448.6	461.9
52.5°	621.4	568.2	508.4	442.0	412.1	385.5	345.6	325.6	312.4	312.4	315.8
55°	535.0	478.5	412.1	345.6	315.8	295.8	255.9	229.2	216.0	212.6	222.6
57.5°	461.9	408.8	342.2	275.9	245.9	222.6	182.8	159.5	149.5	142.9	146.2
60°	405.4	352.2	285.8	222.6	196.1	169.5	136.2	109.6	96.4	96.4	99.8
62.5°	352.2	302.4	242.6	182.8	159.5	136.2	99.8	76.4	66.5	63.1	66.5
65°	299.1	252.5	202.8	152.9	129.6	109.6	79.8	59.9	46.5	43.2	46.5
67.5°	242.6	206.0	162.9	123.0	103.0	86.4	59.9	43.2	33.2	29.9	33.2
70°	189.4	156.1	123.0	89.8	76.4	63.1	43.2	33.2	23.2	20.0	23.2
72.5°	136.2	113.0	86.4	63.1	53.1	43.2	29.9	23.2	16.6	13.2	16.6
75°	93.0	76.4	56.5	39.9	33.2	29.9	20.0	13.2	10.0	10.0	10.0
77.5°	59.9	46.5	36.5	26.6	20.0	16.6	10.0	6.6	6.6	6.6	6.6
80°	33.2	26.6	20.0	13.2	10.0	10.0	6.6	6.6	3.4	3.4	3.4
82.5°	20.0	13.2	10.0	6.6	6.6	3.4	3.4	3.4	3.4	3.4	3.4
85°	10.0	6.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	3.4	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5
2.5°	2867.9	2871.1	2861.2	2874.5	2864.5	2877.8	2877.8	2864.5	2867.9	2861.2	2874.5
5°	2861.2	2861.2	2854.5	2864.5	2851.2	2864.5	2861.2	2837.9	2844.6	2831.2	2844.6
7.5°	2861.2	2854.5	2844.6	2854.5	2837.9	2847.9	2834.6	2811.4	2804.8	2788.1	2788.1
10°	2871.1	2861.2	2847.9	2851.2	2834.6	2837.9	2818.0	2784.8	2774.8	2754.9	2748.2
12.5°	2894.4	2884.5	2864.5	2871.1	2847.9	2847.9	2821.2	2781.4	2761.5	2734.9	2728.2
15°	2927.6	2911.0	2887.8	2891.1	2867.9	2854.5	2821.2	2774.8	2748.2	2711.6	2701.6
17.5°	2934.2	2917.6	2887.8	2887.8	2857.9	2841.2	2801.4	2748.2	2715.0	2678.4	2658.5
20°	2897.8	2881.1	2847.9	2844.6	2818.0	2794.8	2751.5	2698.4	2665.1	2625.2	2608.6
22.5°	2821.2	2801.4	2771.5	2768.1	2741.5	2728.2	2681.8	2628.6	2595.4	2555.5	2542.1
25°	2708.4	2698.4	2668.5	2665.1	2641.9	2625.2	2585.4	2535.5	2505.6	2465.8	2452.5
27.5°	2575.4	2565.4	2535.5	2535.5	2509.0	2499.0	2462.4	2415.9	2392.6	2356.1	2339.5
30°	2415.9	2402.6	2386.0	2382.6	2359.4	2349.4	2316.2	2273.0	2249.8	2219.9	2213.1
32.5°	2226.5	2216.5	2206.5	2203.2	2180.0	2170.0	2146.8	2103.5	2083.6	2057.0	2047.0
35°	2007.1	2000.5	1990.5	1987.2	1977.2	1967.2	1944.0	1910.8	1900.9	1880.9	1870.9
37.5°	1754.6	1761.2	1754.6	1754.6	1744.6	1748.0	1728.0	1708.1	1698.1	1684.8	1678.1
40°	1482.1	1495.4	1505.4	1505.4	1502.0	1515.4	1512.0	1495.4	1492.1	1485.4	1482.1
42.5°	1206.2	1212.9	1232.9	1246.1	1242.9	1276.1	1279.4	1292.6	1302.6	1296.0	1299.4
45°	917.1	937.1	963.8	977.0	993.6	1036.8	1060.1	1086.6	1109.9	1123.2	1119.9
47.5°	661.2	684.5	714.5	734.4	764.4	817.5	877.2	910.5	943.8	960.4	977.0
50°	478.5	501.8	538.4	568.2	588.2	661.2	724.4	767.6	804.2	827.5	844.1
52.5°	335.6	362.2	402.1	428.6	458.6	528.4	601.5	651.4	691.2	721.1	737.8
55°	232.6	262.5	299.1	325.6	358.9	432.0	501.8	555.0	598.1	624.8	644.6
57.5°	162.9	189.4	226.0	249.2	282.5	352.2	422.0	475.2	518.4	545.0	568.2
60°	109.6	136.2	172.8	196.1	222.6	292.4	355.6	412.1	452.0	478.5	501.8
62.5°	76.4	99.8	136.2	159.5	182.8	242.6	302.4	352.2	392.1	422.0	442.0
65°	59.9	79.8	109.6	129.6	152.9	202.8	252.5	295.8	335.6	365.5	378.9
67.5°	43.2	63.1	86.4	103.0	119.6	162.9	206.0	239.2	275.9	299.1	315.8
70°	29.9	43.2	63.1	76.4	89.8	123.0	156.1	186.1	212.6	229.2	242.6
72.5°	23.2	29.9	43.2	53.1	63.1	86.4	113.0	136.2	156.1	169.5	182.8
75°	13.2	20.0	29.9	36.5	43.2	59.9	76.4	93.0	106.4	116.2	123.0
77.5°	6.6	10.0	16.6	20.0	26.6	36.5	49.9	59.9	69.8	76.4	83.1
80°	6.6	6.6	10.0	10.0	13.2	20.0	26.6	33.2	39.9	46.5	49.9
82.5°	3.4	3.4	6.6	6.6	6.6	10.0	13.2	20.0	23.2	26.6	29.9
85°	3.4	3.4	3.4	3.4	3.4	6.6	6.6	10.0	13.2	16.6	16.6
87.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	6.6	6.6	6.6	10.0
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: P252596

CATALOG NUMBER: LE_6B40D010 EC6B30508027 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5	2874.5
2.5°	2864.5	2871.1	2867.9	2874.5	2864.5	2861.2	2867.9	2857.9
5°	2828.0	2831.2	2828.0	2828.0	2821.2	2814.6	2821.2	2811.4
7.5°	2771.5	2771.5	2761.5	2761.5	2748.2	2741.5	2741.5	2738.2
10°	2725.0	2715.0	2705.0	2708.4	2688.4	2681.8	2678.4	2675.1
12.5°	2701.6	2695.0	2678.4	2678.4	2658.5	2651.9	2648.5	2645.1
15°	2675.1	2661.8	2648.5	2645.1	2628.6	2621.9	2618.6	2612.0
17.5°	2628.6	2618.6	2602.0	2602.0	2585.4	2582.0	2575.4	2572.1
20°	2578.8	2565.4	2552.1	2552.1	2532.2	2532.2	2522.2	2525.5
22.5°	2509.0	2499.0	2485.6	2485.6	2469.0	2465.8	2455.8	2452.5
25°	2425.9	2412.6	2402.6	2399.2	2386.0	2379.4	2376.0	2369.4
27.5°	2316.2	2306.2	2296.2	2289.6	2273.0	2269.6	2259.8	2263.0
30°	2180.0	2173.2	2170.0	2163.4	2143.4	2136.8	2136.8	2126.8
32.5°	2030.4	2020.5	2013.8	2003.9	1987.2	1983.9	1973.9	1977.2
35°	1847.6	1834.4	1824.4	1827.8	1807.8	1804.5	1797.8	1801.1
37.5°	1658.2	1644.9	1631.6	1628.4	1611.8	1611.8	1601.8	1601.8
40°	1462.1	1448.9	1442.2	1442.2	1422.2	1425.6	1415.6	1412.4
42.5°	1286.0	1272.8	1269.4	1266.1	1256.1	1252.8	1242.9	1246.1
45°	1119.9	1116.5	1116.5	1109.9	1100.0	1096.6	1100.0	1100.0
47.5°	973.6	977.0	973.6	973.6	967.0	973.6	967.0	970.4
50°	850.8	857.4	857.4	857.4	854.0	857.4	857.4	860.6
52.5°	747.8	757.6	754.4	757.6	754.4	761.0	757.6	761.0
55°	658.0	664.6	668.0	671.2	671.2	671.2	671.2	671.2
57.5°	574.9	584.9	588.2	591.5	591.5	598.1	591.5	591.5
60°	508.4	518.4	521.8	525.0	525.0	528.4	521.8	525.0
62.5°	448.6	458.6	458.6	461.9	461.9	461.9	455.2	458.6
65°	388.8	392.1	395.5	395.5	392.1	392.1	388.8	392.1
67.5°	322.4	325.6	322.4	322.4	319.0	319.0	312.4	315.8
70°	249.2	249.2	252.5	249.2	245.9	249.2	245.9	242.6
72.5°	186.1	186.1	186.1	182.8	182.8	179.5	182.8	182.8
75°	126.2	126.2	129.6	129.6	129.6	129.6	126.2	126.2
77.5°	83.1	83.1	83.1	83.1	86.4	83.1	83.1	83.1
80°	53.1	53.1	56.5	56.5	53.1	53.1	53.1	53.1
82.5°	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
85°	20.0	20.0	20.0	20.0	16.6	16.6	16.6	16.6
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	6.6	6.6
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)