

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: P252507

Luminaire Tested: **LE_6B50D010R EC6B30508035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252507
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_6B50D010R EC6B30508035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5818.8 lumens
Efficiency: N/A
Efficacy: 99.0 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

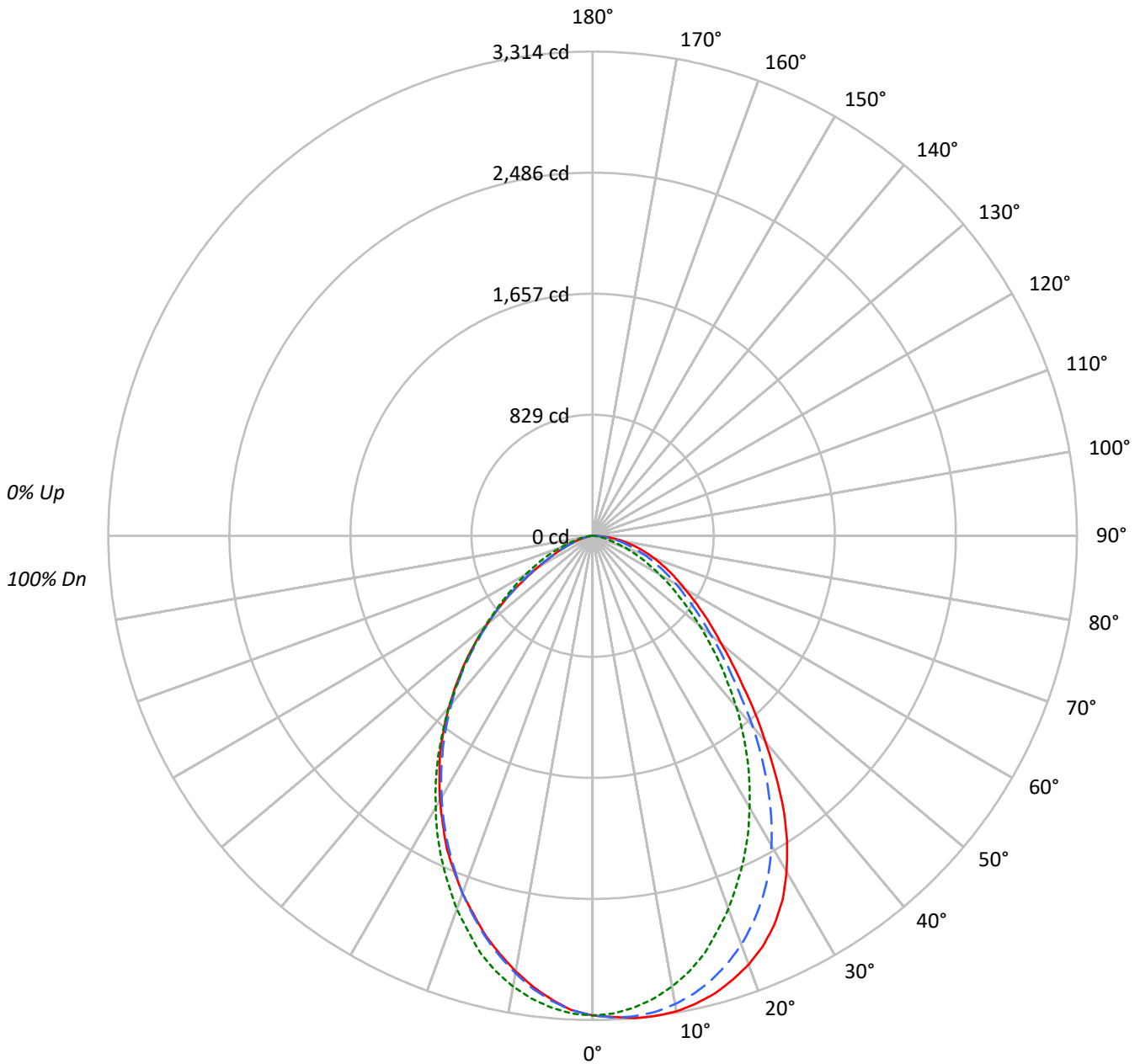
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	214159	214159	214159
5°	217066	212292	208710
10°	218973	207492	200556
15°	218944	199850	191225
20°	216829	188649	180748
25°	211694	175917	170000
30°	199897	161771	157304
35°	181190	146696	144881
40°	156483	130465	130082
45°	134189	113577	114417
50°	116609	97173	95792
55°	104758	81941	76754
60°	95186	69012	56511
65°	89382	56994	41526
70°	85227	44350	30444
75°	81620	32164	20695
80°	77057	22242	13713
85°	68193	13624	6812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	5.3
10°-20°	841.0	14.5
20°-30°	1167.5	20.1
30°-40°	1209.3	20.8
40°-50°	993.8	17.1
50°-60°	683.0	11.7
60°-70°	392.6	6.7
70°-80°	180.5	3.1
80°-90°	43.9	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°	2315.6	39.8
0°-40°	3524.9	60.6
0°-60°	5201.7	89.4
0°-90°	5818.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5818.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3283	3283	3283	3283	3283	
5°	3314	3301	3242	3196	3187	316
15°	3242	3146	2959	2840	2831	913
25°	2941	2745	2444	2339	2362	1346
35°	2275	2088	1842	1787	1819	1411
45°	1454	1345	1231	1217	1240	1133
55°	921	834	720	679	675	829
65°	579	506	369	260	269	576
75°	324	255	128	82	82	342
85°	91	64	18	9	9	102
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°	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6
2.5°	3296.4	3323.6	3305.4	3300.9	3310.0	3310.0	3310.0	3296.4	3305.4	3291.8	3300.9
5°	3314.5	3337.4	3319.1	3310.0	3319.1	3323.6	3310.0	3300.9	3314.5	3296.4	3300.9
7.5°	3314.5	3337.4	3319.1	3314.5	3319.1	3319.1	3314.5	3296.4	3305.4	3287.2	3287.2
10°	3305.4	3323.6	3305.4	3296.4	3300.9	3296.4	3296.4	3273.5	3278.1	3255.2	3255.2
12.5°	3278.1	3300.9	3278.1	3269.0	3269.0	3269.0	3255.2	3237.0	3241.6	3214.2	3209.8
15°	3241.6	3259.9	3237.0	3227.9	3227.9	3223.4	3214.2	3186.9	3186.9	3159.5	3145.9
17.5°	3186.9	3205.1	3186.9	3173.2	3168.6	3159.5	3150.4	3123.1	3114.0	3082.0	3068.4
20°	3123.1	3136.8	3118.5	3104.9	3095.8	3086.6	3068.4	3041.0	3031.9	3000.0	2977.1
22.5°	3041.0	3059.2	3031.9	3018.2	3009.1	2995.4	2977.1	2949.9	2936.1	2895.1	2867.8
25°	2940.8	2949.9	2927.0	2913.4	2895.1	2886.0	2872.2	2835.9	2822.1	2776.6	2744.6
27.5°	2813.0	2822.1	2794.8	2785.6	2762.9	2753.8	2735.5	2703.6	2685.4	2639.8	2607.9
30°	2653.5	2662.6	2644.4	2630.6	2612.4	2594.2	2580.5	2548.6	2521.2	2475.6	2448.2
32.5°	2475.6	2489.4	2471.1	2452.9	2421.0	2425.5	2402.8	2370.8	2348.0	2307.0	2275.0
35°	2275.0	2284.1	2261.4	2256.9	2238.6	2220.4	2197.5	2174.8	2161.1	2115.5	2088.1
37.5°	2051.6	2074.5	2051.6	2033.4	2024.2	2010.6	1996.9	1965.0	1955.9	1928.5	1892.1
40°	1837.4	1851.0	1837.4	1819.1	1805.5	1805.5	1787.2	1769.0	1746.1	1718.9	1705.1
42.5°	1645.9	1636.8	1632.2	1623.1	1604.9	1600.2	1595.8	1572.9	1559.2	1531.9	1509.1
45°	1454.4	1459.0	1449.9	1445.2	1431.6	1422.5	1413.4	1395.1	1390.5	1363.2	1345.0
47.5°	1294.9	1290.2	1281.1	1281.1	1272.0	1262.9	1253.8	1240.1	1235.5	1212.8	1194.5
50°	1148.9	1153.5	1148.9	1144.4	1130.6	1126.1	1117.0	1107.9	1098.8	1076.0	1057.8
52.5°	1030.4	1025.9	1021.2	1021.2	1007.6	1003.0	993.9	984.8	975.6	952.9	939.2
55°	921.0	921.0	916.4	911.9	898.1	893.6	889.0	879.9	866.2	848.0	834.4
57.5°	820.6	820.6	816.1	811.5	802.4	802.4	793.2	784.1	775.1	756.9	738.6
60°	729.5	734.0	729.5	724.9	715.8	715.8	711.2	697.5	693.0	670.2	656.5
62.5°	652.0	652.0	652.0	647.4	642.9	633.8	633.8	620.0	610.9	597.2	579.0
65°	579.0	579.0	579.0	574.5	565.4	560.8	556.2	547.1	538.0	524.2	506.1
67.5°	510.6	510.6	510.6	506.1	497.0	492.4	487.9	483.2	469.6	455.9	437.6
70°	446.8	446.8	442.2	437.6	433.1	428.6	424.0	414.9	405.8	387.5	373.9
72.5°	383.0	383.0	383.0	373.9	369.2	369.2	360.1	355.6	346.5	328.2	314.6
75°	323.8	319.1	319.1	314.6	310.0	305.5	300.9	296.4	282.6	273.5	255.4
77.5°	264.4	264.4	259.9	255.4	255.4	250.8	246.2	237.1	232.5	218.9	205.1
80°	205.1	205.1	205.1	205.1	200.6	196.0	196.0	186.9	182.4	168.8	159.6
82.5°	155.0	150.5	150.5	150.5	145.9	141.4	141.4	136.8	132.2	123.1	114.0
85°	91.1	86.6	86.6	86.6	82.1	82.1	77.5	77.5	73.0	63.9	63.9
87.5°	27.4	27.4	31.9	31.9	27.4	27.4	27.4	27.4	27.4	22.8	22.8
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°	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6
2.5°	3291.8	3305.4	3287.2	3282.6	3300.9	3291.8	3287.2	3278.1	3282.6	3273.5	3259.9
5°	3287.2	3305.4	3282.6	3269.0	3291.8	3278.1	3269.0	3259.9	3259.9	3241.6	3232.5
7.5°	3273.5	3282.6	3259.9	3246.1	3259.9	3246.1	3237.0	3223.4	3218.8	3196.0	3182.4
10°	3237.0	3246.1	3218.8	3200.6	3214.2	3196.0	3182.4	3168.6	3159.5	3132.1	3114.0
12.5°	3186.9	3191.5	3159.5	3136.8	3145.9	3132.1	3109.4	3091.1	3082.0	3054.6	3031.9
15°	3118.5	3123.1	3086.6	3054.6	3063.8	3045.5	3018.2	3000.0	2986.2	2958.9	2927.0
17.5°	3036.5	3031.9	2990.9	2958.9	2963.5	2940.8	2913.4	2886.0	2867.8	2835.9	2813.0
20°	2945.2	2931.6	2886.0	2849.5	2854.1	2826.8	2794.8	2767.5	2744.6	2717.2	2685.4
22.5°	2831.2	2813.0	2772.0	2726.4	2731.0	2708.1	2662.6	2639.8	2617.0	2580.5	2553.1
25°	2708.1	2680.9	2639.8	2594.2	2594.2	2566.9	2530.4	2503.0	2480.2	2443.8	2411.9
27.5°	2562.2	2548.6	2493.9	2457.4	2452.9	2425.5	2393.6	2361.6	2334.4	2302.4	2270.5
30°	2402.8	2379.9	2338.9	2297.9	2288.8	2265.9	2234.0	2197.5	2179.2	2147.4	2120.0
32.5°	2234.0	2211.2	2165.6	2124.6	2120.0	2101.8	2074.5	2038.0	2019.8	1996.9	1978.8
35°	2042.5	2033.4	1987.9	1955.9	1955.9	1937.6	1910.2	1878.4	1864.8	1841.9	1819.1
37.5°	1860.1	1846.5	1805.5	1778.1	1778.1	1755.2	1728.0	1714.2	1700.6	1682.4	1668.6
40°	1668.6	1659.5	1627.6	1600.2	1604.9	1586.6	1568.4	1550.1	1541.0	1531.9	1518.2
42.5°	1490.9	1481.8	1459.0	1436.1	1436.1	1422.5	1404.2	1390.5	1381.5	1367.8	1363.2
45°	1331.2	1317.6	1299.4	1276.6	1276.6	1262.9	1253.8	1244.6	1240.1	1231.0	1217.2
47.5°	1176.2	1167.1	1148.9	1126.1	1126.1	1126.1	1107.9	1094.2	1094.2	1085.1	1080.5
50°	1044.0	1030.4	1016.8	998.5	998.5	989.4	975.6	962.0	962.0	957.4	948.4
52.5°	921.0	911.9	893.6	875.4	875.4	866.2	852.6	848.0	843.5	829.8	825.2
55°	816.1	807.0	793.2	770.5	766.0	761.4	747.8	738.6	734.0	720.4	720.4
57.5°	720.4	711.2	688.5	674.8	670.2	661.1	647.4	638.2	633.8	624.6	615.5
60°	638.2	624.6	606.4	588.1	583.6	574.5	560.8	551.6	547.1	528.9	519.8
62.5°	560.8	547.1	528.9	510.6	506.1	497.0	478.8	469.6	460.5	442.2	433.1
65°	487.9	474.1	455.9	437.6	428.6	424.0	405.8	392.1	383.0	369.2	351.0
67.5°	419.5	405.8	387.5	364.8	364.8	351.0	337.4	323.8	310.0	296.4	282.6
70°	355.6	342.0	323.8	305.5	300.9	291.8	278.1	259.9	250.8	232.5	218.9
72.5°	296.4	282.6	264.4	246.2	241.6	232.5	218.9	200.6	186.9	173.2	159.6
75°	241.6	228.0	209.8	196.0	191.5	182.4	168.8	150.5	136.8	127.6	114.0
77.5°	191.5	177.8	164.1	150.5	145.9	136.8	123.1	114.0	100.2	91.1	77.5
80°	145.9	136.8	123.1	114.0	109.4	100.2	91.1	77.5	68.4	59.2	54.8
82.5°	104.9	95.8	86.6	73.0	73.0	63.9	59.2	50.1	41.0	36.5	31.9
85°	59.2	50.1	45.6	41.0	36.5	36.5	31.9	27.4	22.8	18.2	18.2
87.5°	18.2	18.2	13.6	13.6	13.6	13.6	9.1	9.1	9.1	9.1	9.1
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°	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6
2.5°	3259.9	3264.4	3255.2	3264.4	3255.2	3259.9	3250.8	3259.9	3250.8	3259.9	3241.6
5°	3227.9	3227.9	3214.2	3223.4	3214.2	3218.8	3200.6	3205.1	3196.0	3205.1	3186.9
7.5°	3173.2	3177.8	3155.0	3164.1	3150.4	3150.4	3136.8	3141.2	3127.6	3132.1	3118.5
10°	3109.4	3104.9	3082.0	3091.1	3072.9	3072.9	3059.2	3059.2	3041.0	3045.5	3027.4
12.5°	3018.2	3013.6	2986.2	2995.4	2977.1	2977.1	2963.5	2963.5	2945.2	2954.4	2936.1
15°	2913.4	2908.8	2881.4	2886.0	2867.8	2867.8	2849.5	2854.1	2840.4	2849.5	2831.2
17.5°	2794.8	2790.2	2762.9	2767.5	2744.6	2749.2	2735.5	2731.0	2721.9	2726.4	2712.8
20°	2671.8	2662.6	2635.2	2639.8	2630.6	2617.0	2607.9	2612.4	2603.4	2612.4	2598.8
22.5°	2544.0	2525.8	2503.0	2503.0	2493.9	2493.9	2480.2	2489.4	2471.1	2484.8	2475.6
25°	2398.1	2384.5	2366.2	2375.4	2357.1	2357.1	2343.5	2348.0	2338.9	2348.0	2338.9
27.5°	2256.9	2247.8	2220.4	2229.5	2215.8	2220.4	2206.6	2211.2	2206.6	2215.8	2206.6
30°	2106.4	2101.8	2083.5	2083.5	2079.0	2074.5	2069.9	2069.9	2065.4	2079.0	2069.9
32.5°	1965.0	1951.4	1933.1	1946.8	1924.0	1937.6	1928.5	1937.6	1928.5	1937.6	1933.1
35°	1819.1	1814.6	1791.8	1796.4	1791.8	1791.8	1787.2	1787.2	1787.2	1800.9	1800.9
37.5°	1664.1	1659.5	1645.9	1650.4	1641.4	1636.8	1636.8	1645.9	1645.9	1655.0	1655.0
40°	1513.6	1518.2	1504.5	1504.5	1500.0	1500.0	1500.0	1509.1	1504.5	1513.6	1509.1
42.5°	1363.2	1363.2	1349.5	1354.1	1349.5	1354.1	1354.1	1363.2	1363.2	1367.8	1363.2
45°	1221.9	1221.9	1217.2	1221.9	1212.8	1217.2	1212.8	1221.9	1217.2	1221.9	1221.9
47.5°	1080.5	1080.5	1080.5	1076.0	1076.0	1076.0	1076.0	1076.0	1071.4	1080.5	1076.0
50°	948.4	952.9	948.4	948.4	943.8	948.4	943.8	943.8	934.6	939.2	939.2
52.5°	829.8	829.8	820.6	820.6	820.6	816.1	816.1	816.1	811.5	811.5	802.4
55°	715.8	715.8	706.6	706.6	702.1	697.5	693.0	693.0	679.4	679.4	665.6
57.5°	610.9	606.4	592.8	592.8	583.6	579.0	574.5	569.9	560.8	551.6	547.1
60°	515.2	506.1	497.0	492.4	483.2	474.1	465.0	455.9	446.8	442.2	437.6
62.5°	424.0	410.4	401.2	396.6	387.5	373.9	364.8	355.6	346.5	342.0	332.9
65°	342.0	328.2	314.6	310.0	300.9	291.8	278.1	269.0	259.9	255.4	255.4
67.5°	269.0	255.4	237.1	237.1	228.0	218.9	209.8	200.6	196.0	200.6	200.6
70°	200.6	191.5	177.8	173.2	164.1	155.0	150.5	150.5	150.5	155.0	150.5
72.5°	150.5	136.8	127.6	123.1	118.5	114.0	114.0	114.0	109.4	114.0	114.0
75°	104.9	95.8	86.6	86.6	82.1	82.1	82.1	82.1	82.1	82.1	82.1
77.5°	73.0	63.9	59.2	59.2	59.2	54.8	54.8	54.8	54.8	54.8	54.8
80°	45.6	45.6	41.0	41.0	36.5	36.5	36.5	36.5	36.5	36.5	36.5
82.5°	27.4	27.4	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
85°	13.6	13.6	13.6	13.6	13.6	9.1	9.1	9.1	9.1	9.1	9.1
87.5°	4.5	4.5	4.5	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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: P252507

CATALOG NUMBER: LE_6B50D010R EC6B30508035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6	3282.6
2.5°	3241.6	3255.2	3237.0	3250.8	3246.1	3241.6	3232.5	3250.8
5°	3186.9	3191.5	3173.2	3191.5	3186.9	3177.8	3168.6	3186.9
7.5°	3109.4	3123.1	3100.2	3118.5	3114.0	3104.9	3095.8	3114.0
10°	3022.8	3036.5	3018.2	3031.9	3031.9	3022.8	3009.1	3027.4
12.5°	2927.0	2936.1	2917.9	2936.1	2931.6	2922.5	2917.9	2931.6
15°	2822.1	2835.9	2817.6	2831.2	2826.8	2822.1	2817.6	2831.2
17.5°	2708.1	2721.9	2708.1	2721.9	2721.9	2708.1	2703.6	2712.8
20°	2594.2	2603.4	2589.6	2603.4	2598.8	2598.8	2589.6	2603.4
22.5°	2466.5	2480.2	2471.1	2480.2	2475.6	2475.6	2471.1	2480.2
25°	2338.9	2352.5	2338.9	2352.5	2348.0	2348.0	2338.9	2361.6
27.5°	2211.2	2220.4	2206.6	2224.9	2220.4	2211.2	2215.8	2220.4
30°	2074.5	2083.5	2074.5	2088.1	2088.1	2088.1	2079.0	2088.1
32.5°	1937.6	1951.4	1937.6	1951.4	1946.8	1946.8	1942.2	1951.4
35°	1800.9	1805.5	1796.4	1810.0	1810.0	1814.6	1805.5	1819.1
37.5°	1659.5	1664.1	1659.5	1664.1	1673.2	1659.5	1668.6	1673.2
40°	1513.6	1522.8	1518.2	1522.8	1522.8	1527.4	1522.8	1527.4
42.5°	1367.8	1376.9	1367.8	1381.5	1376.9	1376.9	1381.5	1381.5
45°	1217.2	1231.0	1221.9	1231.0	1235.5	1231.0	1231.0	1240.1
47.5°	1076.0	1085.1	1080.5	1085.1	1085.1	1085.1	1085.1	1094.2
50°	934.6	939.2	939.2	943.8	943.8	948.4	939.2	943.8
52.5°	793.2	802.4	802.4	802.4	797.9	802.4	802.4	802.4
55°	665.6	670.2	661.1	670.2	670.2	665.6	665.6	674.8
57.5°	542.5	542.5	542.5	542.5	542.5	538.0	542.5	542.5
60°	428.6	433.1	428.6	428.6	428.6	428.6	424.0	433.1
62.5°	332.9	332.9	328.2	332.9	332.9	332.9	337.4	337.4
65°	259.9	264.4	259.9	264.4	264.4	264.4	264.4	269.0
67.5°	205.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1
70°	155.0	155.0	155.0	159.6	155.0	155.0	155.0	159.6
72.5°	114.0	114.0	114.0	114.0	114.0	114.0	118.5	118.5
75°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
77.5°	54.8	54.8	54.8	59.2	54.8	59.2	54.8	54.8
80°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
82.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
85°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
87.5°	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5
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)