

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: P252303

Luminaire Tested: **LE_6B50D010R EC6B30509027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252303
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_6B50D010R EC6B30509027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5072.4 lumens
Efficiency: N/A
Efficacy: 86.3 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

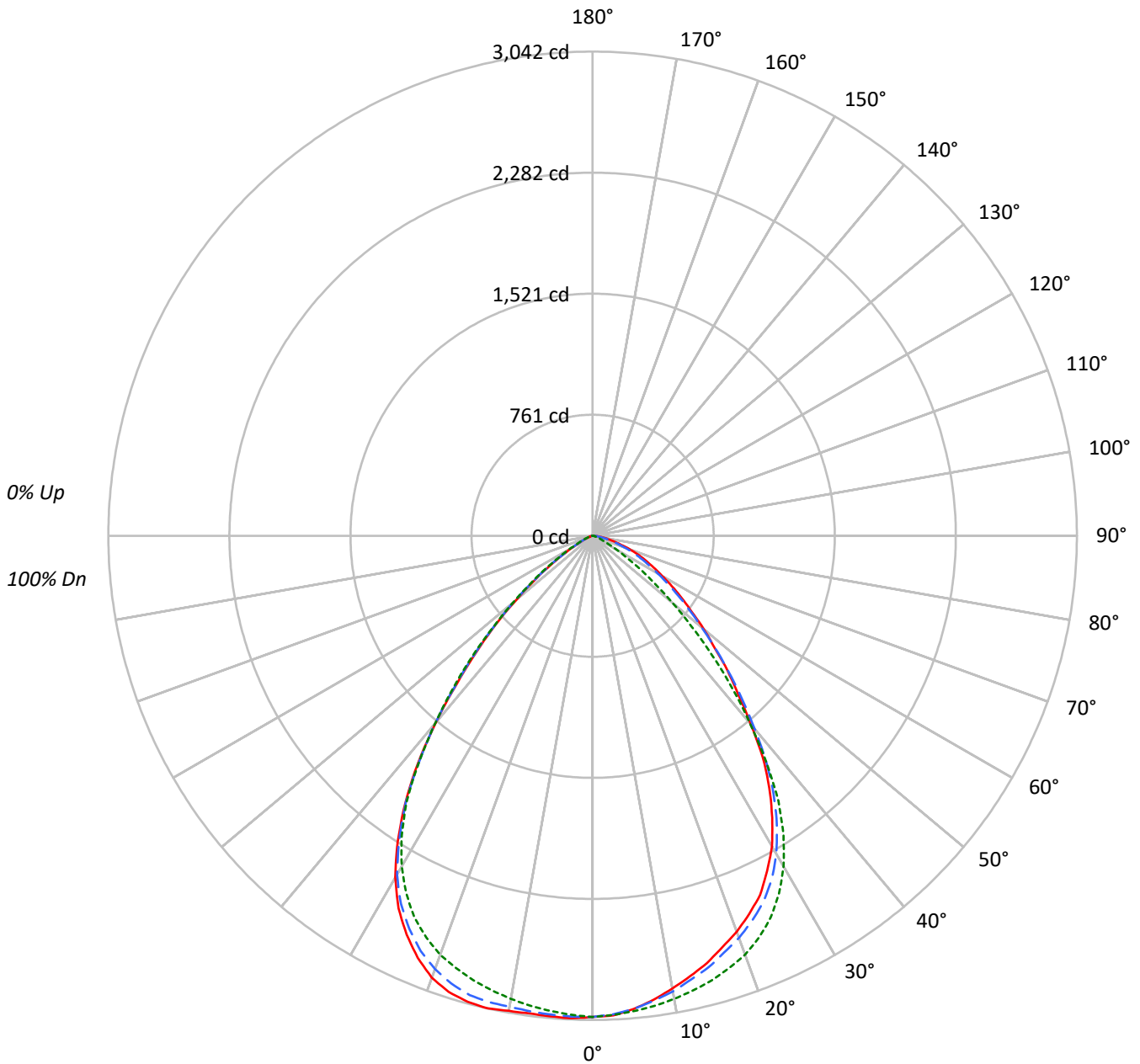
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252303

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSW1H

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	103	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°	197255	197255	197255
5°	195382	196339	198493
10°	191348	195700	200788
15°	187693	195338	204713
20°	183803	194453	205096
25°	179272	190573	198981
30°	169726	180732	186782
35°	154143	161996	163446
40°	131547	130934	130303
45°	110514	98040	95014
50°	92281	66338	63009
55°	77675	40709	36967
60°	65750	21451	18581
65°	56933	11269	9015
70°	47344	6962	4864
75°	34987	4588	2773
80°	27427	2705	1353
85°	21858	2695	0



TEST NUMBER: P252303

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	5.6
10°-20°	815.9	16.1
20°-30°	1204.8	23.8
30°-40°	1241.6	24.5
40°-50°	857.6	16.9
50°-60°	422.7	8.3
60°-70°	171.3	3.4
70°-80°	61.0	1.2
80°-90°	12.6	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°	2305.6	45.5
0°-40°	3547.3	69.9
0°-60°	4827.6	95.2
0°-90°	5072.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5072.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3024	3024	3024	3024	3024	
5°	2983	2983	2998	3020	3031	282
15°	2779	2808	2892	2987	3031	782
25°	2490	2538	2647	2724	2764	1139
35°	1935	1983	2034	2045	2052	1199
45°	1198	1205	1063	1048	1030	926
55°	683	657	358	336	325	617
65°	369	332	73	58	58	366
75°	139	117	18	11	11	156
85°	29	22	4	0	0	36
90°	0	0	0	0	0	



TEST NUMBER: P252303

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3016.2	3005.2	3012.6	2998.0	3016.2	2998.0	3001.6	3005.2	3001.6	3005.2	3008.9
5°	2983.4	2972.4	2983.4	2965.1	2983.4	2972.4	2972.4	2976.0	2976.0	2979.8	2983.4
7.5°	2939.5	2928.6	2939.5	2921.2	2943.1	2932.2	2932.2	2939.5	2935.9	2939.5	2946.9
10°	2888.4	2873.8	2884.8	2873.8	2895.8	2881.1	2888.4	2888.4	2888.4	2899.4	2906.6
12.5°	2833.6	2819.0	2833.6	2815.4	2837.2	2826.4	2830.0	2841.0	2844.6	2851.9	2855.5
15°	2778.9	2760.6	2767.9	2757.0	2778.9	2767.9	2771.5	2786.1	2786.1	2797.1	2808.1
17.5°	2709.5	2694.9	2709.5	2694.9	2713.1	2705.9	2713.1	2724.1	2724.1	2735.0	2746.0
20°	2647.4	2632.8	2643.8	2632.8	2654.8	2643.8	2647.4	2662.0	2665.6	2676.6	2687.6
22.5°	2570.8	2559.8	2567.1	2556.1	2578.0	2570.8	2574.4	2589.0	2592.6	2599.9	2618.2
25°	2490.4	2468.5	2479.4	2472.1	2494.0	2483.1	2490.4	2505.0	2512.2	2523.2	2537.9
27.5°	2373.5	2362.6	2369.9	2369.9	2388.1	2377.2	2380.9	2395.5	2406.4	2417.4	2435.6
30°	2253.0	2234.8	2242.1	2245.8	2260.4	2253.0	2260.4	2275.0	2278.6	2293.2	2307.8
32.5°	2099.6	2092.4	2107.0	2099.6	2107.0	2107.0	2110.6	2121.6	2128.9	2136.1	2154.5
35°	1935.4	1920.8	1935.4	1928.0	1946.2	1935.4	1946.2	1957.2	1957.2	1971.9	1982.9
37.5°	1756.4	1738.1	1745.5	1745.5	1752.8	1749.1	1749.1	1767.4	1771.0	1782.0	1792.9
40°	1544.6	1537.4	1551.9	1548.2	1551.9	1551.9	1555.6	1566.5	1573.9	1577.5	1581.1
42.5°	1354.8	1358.4	1362.0	1362.0	1362.0	1362.0	1362.0	1376.6	1373.0	1384.0	1387.6
45°	1197.8	1183.1	1190.4	1186.8	1197.8	1186.8	1197.8	1208.6	1201.4	1212.4	1205.0
47.5°	1037.0	1037.0	1037.0	1033.4	1040.8	1037.0	1044.4	1048.0	1048.0	1048.0	1044.4
50°	909.2	898.2	902.0	902.0	905.6	902.0	909.2	912.9	912.9	905.6	891.0
52.5°	785.1	781.5	781.5	788.8	788.8	785.1	785.1	785.1	785.1	774.1	766.9
55°	682.9	675.5	679.2	679.2	679.2	679.2	682.9	679.2	679.2	668.2	657.2
57.5°	591.5	584.2	584.2	584.2	587.9	584.2	584.2	584.2	580.6	569.6	555.0
60°	503.9	500.2	503.9	503.9	507.6	503.9	503.9	503.9	496.6	485.6	471.0
62.5°	430.9	430.9	430.9	434.5	434.5	430.9	430.9	427.2	423.6	409.0	394.4
65°	368.8	365.1	368.8	368.8	372.5	372.5	368.8	365.1	361.5	346.9	332.2
67.5°	306.8	303.1	306.8	306.8	310.4	306.8	306.8	306.8	295.8	288.5	273.9
70°	248.2	244.6	244.6	244.6	248.2	241.0	244.6	244.6	237.4	226.4	211.8
72.5°	189.9	189.9	189.9	189.9	189.9	189.9	186.2	186.2	178.9	168.0	160.6
75°	138.8	138.8	142.4	142.4	138.8	138.8	138.8	135.1	131.5	124.1	116.9
77.5°	102.2	102.2	102.2	102.2	98.6	98.6	98.6	95.0	91.2	87.6	80.4
80°	73.0	73.0	73.0	69.4	73.0	69.4	69.4	69.4	62.1	58.4	54.8
82.5°	51.1	47.5	47.5	47.5	47.5	47.5	47.5	43.9	43.9	40.1	36.5
85°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	25.5	21.9	21.9
87.5°	14.6	18.2	18.2	18.2	18.2	18.2	18.2	14.6	14.6	14.6	11.0
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: P252303

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3008.9	3008.9	3016.2	3005.2	3023.5	3012.6	3008.9	3027.1	3016.2	3012.6	3019.9
5°	2983.4	2987.0	2990.6	2983.4	3001.6	2990.6	2990.6	3008.9	3001.6	2998.0	3008.9
7.5°	2950.5	2954.1	2961.5	2957.8	2972.4	2965.1	2968.8	2987.0	2979.8	2979.8	2990.6
10°	2910.4	2917.6	2924.9	2924.9	2943.1	2935.9	2935.9	2957.8	2950.5	2954.1	2968.8
12.5°	2862.9	2873.8	2884.8	2888.4	2906.6	2895.8	2899.4	2924.9	2921.2	2924.9	2939.5
15°	2811.8	2826.4	2837.2	2837.2	2859.2	2848.2	2859.2	2884.8	2877.5	2892.1	2910.4
17.5°	2753.2	2767.9	2782.5	2786.1	2808.1	2800.8	2815.4	2841.0	2841.0	2848.2	2870.1
20°	2698.5	2716.8	2724.1	2735.0	2757.0	2753.2	2760.6	2789.9	2789.9	2800.8	2822.6
22.5°	2625.5	2643.8	2658.4	2669.4	2687.6	2687.6	2698.5	2724.1	2724.1	2731.4	2753.2
25°	2545.1	2567.1	2578.0	2589.0	2607.2	2603.6	2614.5	2636.5	2640.1	2647.4	2669.4
27.5°	2442.9	2461.1	2475.8	2483.1	2508.6	2494.0	2505.0	2530.5	2526.9	2534.2	2552.5
30°	2315.1	2333.4	2348.0	2348.0	2369.9	2369.9	2380.9	2391.8	2391.8	2399.1	2413.8
32.5°	2165.4	2187.2	2187.2	2198.2	2212.9	2198.2	2212.9	2227.5	2220.1	2231.1	2242.1
35°	1993.8	2004.8	2008.4	2008.4	2019.4	2015.6	2012.0	2023.0	2015.6	2034.0	2044.9
37.5°	1785.6	1800.2	1792.9	1800.2	1796.6	1785.6	1785.6	1803.9	1789.2	1792.9	1803.9
40°	1584.8	1584.8	1581.1	1562.9	1566.5	1555.6	1551.9	1555.6	1541.0	1537.4	1551.9
42.5°	1376.6	1373.0	1362.0	1336.5	1340.1	1321.9	1307.2	1307.2	1300.0	1296.4	1300.0
45°	1190.4	1179.5	1161.2	1132.0	1124.8	1110.1	1080.9	1073.6	1062.6	1062.6	1066.2
47.5°	1018.8	1004.2	975.0	942.1	923.9	905.6	876.4	865.4	847.1	839.9	847.1
50°	876.4	850.9	814.2	766.9	748.6	726.6	697.5	679.2	661.0	653.6	650.0
52.5°	744.9	708.4	671.9	613.5	598.9	577.0	536.8	518.5	500.2	485.6	485.6
55°	631.8	598.9	547.8	493.0	471.0	449.1	409.0	383.4	365.1	357.9	350.5
57.5°	529.5	493.0	445.5	387.1	365.1	343.2	303.1	277.5	259.2	248.2	241.0
60°	445.5	405.4	357.9	306.8	281.1	259.2	219.1	193.5	175.2	164.4	157.0
62.5°	365.1	332.2	284.9	237.4	215.5	193.5	160.6	135.1	116.9	109.5	98.6
65°	306.8	273.9	230.0	189.9	171.6	149.8	120.5	98.6	84.0	73.0	65.8
67.5°	248.2	222.8	186.2	149.8	131.5	116.9	91.2	73.0	58.4	51.1	47.5
70°	197.1	171.6	142.4	113.2	102.2	87.6	69.4	51.1	43.9	36.5	32.9
72.5°	146.1	127.8	105.9	84.0	73.0	65.8	47.5	40.1	29.2	25.5	21.9
75°	105.9	91.2	76.6	58.4	51.1	47.5	36.5	25.5	21.9	18.2	14.6
77.5°	73.0	65.8	51.1	40.1	36.5	32.9	25.5	18.2	14.6	11.0	11.0
80°	47.5	40.1	32.9	25.5	25.5	21.9	14.6	11.0	11.0	7.2	7.2
82.5°	29.2	25.5	21.9	18.2	14.6	14.6	11.0	7.2	7.2	3.6	3.6
85°	18.2	14.6	11.0	11.0	7.2	7.2	7.2	3.6	3.6	3.6	3.6
87.5°	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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: P252303

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3019.9	3019.9	3027.1	3016.2	3023.5	3023.5	3030.9	3016.2	3023.5	3027.1	3034.5
5°	3005.2	3008.9	3016.2	3012.6	3016.2	3016.2	3023.5	3005.2	3019.9	3019.9	3030.9
7.5°	2990.6	2990.6	2998.0	2994.2	3001.6	3005.2	3012.6	2998.0	3012.6	3012.6	3023.5
10°	2972.4	2972.4	2983.4	2979.8	2990.6	2994.2	3005.2	2990.6	3005.2	3008.9	3019.9
12.5°	2946.9	2950.5	2961.5	2961.5	2972.4	2979.8	2990.6	2983.4	3001.6	3005.2	3019.9
15°	2917.6	2924.9	2939.5	2935.9	2946.9	2957.8	2972.4	2961.5	2987.0	2994.2	3008.9
17.5°	2881.1	2888.4	2899.4	2899.4	2910.4	2917.6	2935.9	2928.6	2950.5	2954.1	2972.4
20°	2826.4	2837.2	2851.9	2848.2	2859.2	2866.5	2881.1	2873.8	2895.8	2903.0	2921.2
22.5°	2760.6	2767.9	2778.9	2778.9	2789.9	2797.1	2811.8	2800.8	2822.6	2826.4	2841.0
25°	2673.0	2680.2	2687.6	2691.2	2702.1	2705.9	2713.1	2705.9	2724.1	2727.8	2746.0
27.5°	2559.8	2563.4	2574.4	2574.4	2581.6	2585.4	2596.2	2581.6	2607.2	2607.2	2618.2
30°	2424.6	2421.0	2435.6	2428.2	2435.6	2435.6	2446.6	2439.2	2457.5	2450.2	2461.1
32.5°	2245.8	2253.0	2253.0	2245.8	2260.4	2256.6	2256.6	2249.4	2260.4	2264.0	2271.2
35°	2037.6	2048.5	2048.5	2052.2	2055.9	2044.9	2048.5	2026.6	2044.9	2048.5	2052.2
37.5°	1811.2	1800.2	1807.5	1796.6	1814.9	1792.9	1792.9	1778.4	1792.9	1792.9	1796.6
40°	1551.9	1548.2	1555.6	1548.2	1544.6	1541.0	1533.6	1522.8	1537.4	1530.0	1541.0
42.5°	1307.2	1303.6	1303.6	1296.4	1292.6	1292.6	1285.4	1278.0	1274.4	1274.4	1292.6
45°	1055.2	1062.6	1055.2	1051.6	1059.0	1051.6	1055.2	1040.8	1048.0	1040.8	1048.0
47.5°	843.5	847.1	839.9	832.6	843.5	832.6	832.6	821.6	836.2	836.2	828.9
50°	653.6	650.0	642.6	650.0	646.4	646.4	646.4	635.4	642.6	631.8	639.0
52.5°	482.0	478.4	478.4	474.8	478.4	474.8	474.8	471.0	471.0	467.4	471.0
55°	350.5	346.9	339.6	339.6	339.6	343.2	339.6	336.0	336.0	332.2	336.0
57.5°	237.4	230.0	230.0	230.0	230.0	226.4	226.4	222.8	226.4	222.8	226.4
60°	153.4	153.4	146.1	146.1	146.1	146.1	146.1	142.4	146.1	146.1	146.1
62.5°	95.0	95.0	91.2	87.6	91.2	87.6	87.6	87.6	91.2	87.6	91.2
65°	62.1	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
67.5°	43.9	40.1	40.1	40.1	40.1	40.1	40.1	36.5	40.1	40.1	40.1
70°	29.2	29.2	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	14.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	11.0	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
80°	7.2	7.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	3.6	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	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P252303

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3023.5	3027.1	3019.9	3023.5	3016.2	3023.5	3027.1	3034.5
5°	3016.2	3019.9	3012.6	3019.9	3012.6	3019.9	3023.5	3030.9
7.5°	3008.9	3016.2	3008.9	3016.2	3008.9	3016.2	3019.9	3027.1
10°	3008.9	3019.9	3012.6	3023.5	3012.6	3019.9	3027.1	3030.9
12.5°	3008.9	3019.9	3016.2	3023.5	3019.9	3027.1	3034.5	3041.8
15°	3001.6	3012.6	3005.2	3016.2	3012.6	3016.2	3030.9	3030.9
17.5°	2961.5	2972.4	2972.4	2979.8	2979.8	2990.6	2998.0	3005.2
20°	2910.4	2921.2	2917.6	2928.6	2928.6	2939.5	2946.9	2954.1
22.5°	2833.6	2848.2	2844.6	2855.5	2851.9	2859.2	2873.8	2870.1
25°	2735.0	2753.2	2749.6	2757.0	2753.2	2753.2	2760.6	2764.2
27.5°	2614.5	2625.5	2621.9	2629.1	2621.9	2629.1	2636.5	2640.1
30°	2457.5	2464.9	2461.1	2464.9	2461.1	2468.5	2472.1	2479.4
32.5°	2267.6	2278.6	2267.6	2275.0	2271.2	2271.2	2285.9	2278.6
35°	2041.2	2044.9	2048.5	2048.5	2041.2	2044.9	2052.2	2052.2
37.5°	1789.2	1807.5	1785.6	1796.6	1792.9	1792.9	1792.9	1803.9
40°	1526.4	1530.0	1522.8	1522.8	1522.8	1519.1	1533.6	1530.0
42.5°	1278.0	1281.8	1278.0	1267.1	1270.8	1270.8	1281.8	1267.1
45°	1037.0	1044.4	1040.8	1040.8	1033.4	1033.4	1037.0	1029.8
47.5°	821.6	828.9	818.0	821.6	814.2	821.6	818.0	825.2
50°	624.4	631.8	628.1	631.8	631.8	624.4	635.4	620.8
52.5°	467.4	471.0	467.4	463.8	460.1	460.1	467.4	463.8
55°	332.2	328.6	328.6	328.6	332.2	332.2	328.6	325.0
57.5°	222.8	222.8	219.1	219.1	222.8	215.5	219.1	215.5
60°	142.4	142.4	142.4	142.4	138.8	142.4	142.4	142.4
62.5°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
65°	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
67.5°	36.5	40.1	40.1	40.1	36.5	36.5	36.5	36.5
70°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	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)