

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: P212841

Luminaire Tested: **LE_6B50D010R EC6B30509027 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509027 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5243.8 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

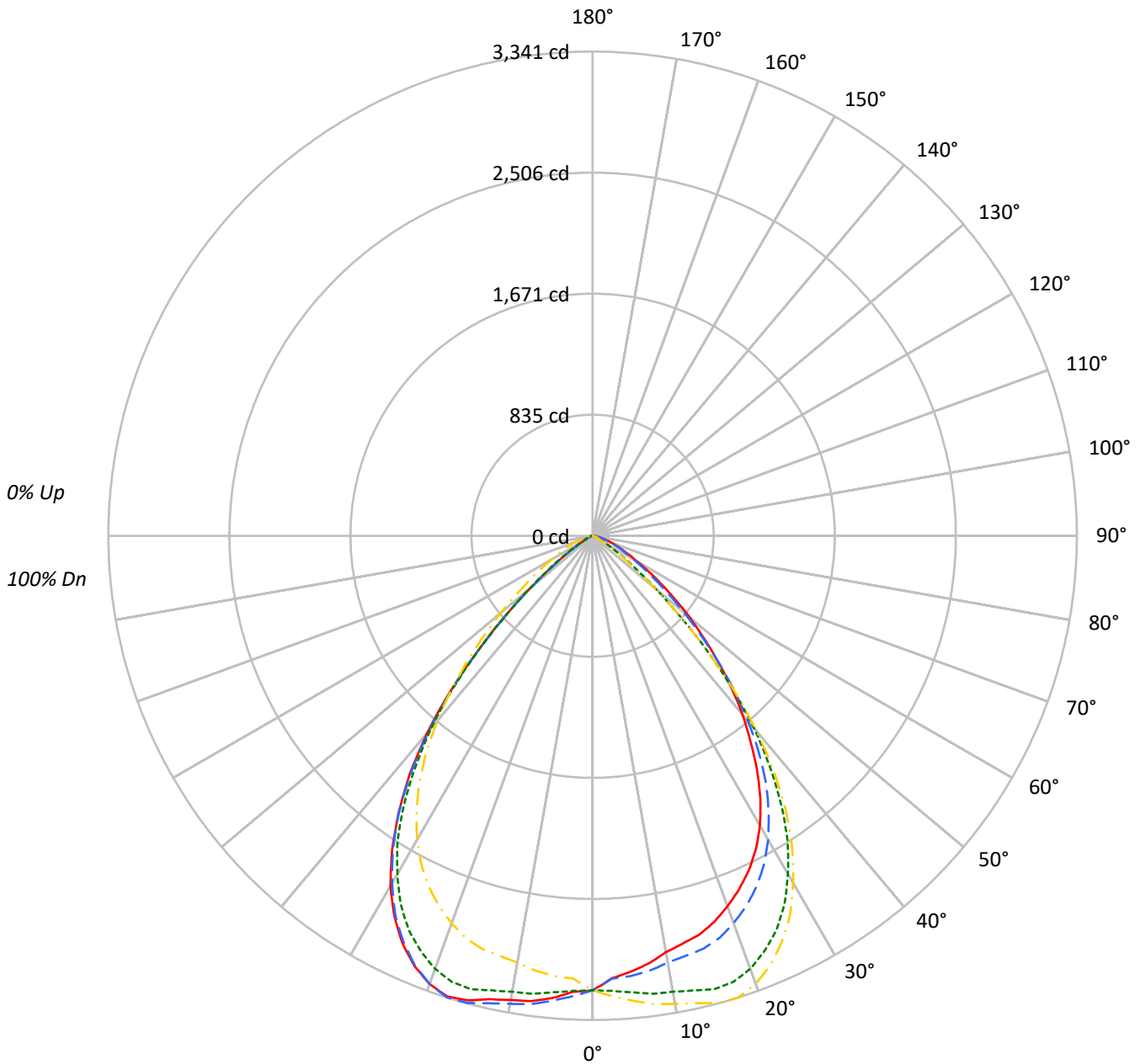
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82																			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	171938	171938	171938	171938
5°	166167	174004	176210	174004
10°	162400	177847	181092	177847
15°	161635	183804	188367	183804
20°	158686	185528	191922	185528
25°	154158	181547	187723	181547
30°	146073	170571	176578	170571
35°	132441	151989	156138	151989
40°	114965	123861	126988	123861
45°	94266	85482	86055	85482
50°	74113	47947	47026	47947
55°	54784	23722	21294	23722
60°	38824	10405	7609	10405
65°	28901	6628	4735	6628
70°	21077	5273	3510	5273
75°	15462	3855	2330	3855
80°	10386	3473	1137	3473
85°	6919	2264	2264	2264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	5.7
10°-20°	889.3	17.0
20°-30°	1327.1	25.3
30°-40°	1363.5	26.0
40°-50°	882.9	16.8
50°-60°	328.3	6.3
60°-70°	107.7	2.1
70°-80°	38.0	0.7
80°-90°	6.8	0.1
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°	2516.6	48.0
0°-40°	3880.1	74.0
0°-60°	5091.3	97.1
0°-90°	5243.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5243.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3136	3136	3136	3136	3136	
5°	3020	3162	3202	3162	3020	285
15°	2848	3239	3319	3239	2848	801
25°	2549	3001	3104	3001	2549	1168
35°	1979	2271	2333	2271	1979	1229
45°	1216	1103	1110	1103	1216	940
55°	573	248	223	248	573	523
65°	223	51	36	51	223	226
75°	73	18	11	18	73	80
85°	11	4	4	4	11	14
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°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3056.1	3099.9	3070.8	3089.0	3059.8	3059.8	3118.1	3085.2	3110.9	3085.2	3059.8
5°	3019.6	3074.4	3037.9	3056.1	3030.5	3034.1	3089.0	3063.4	3089.0	3070.8	3048.8
7.5°	2975.8	3030.5	2997.6	3015.9	2990.4	2997.6	3056.1	3030.5	3059.8	3041.5	3026.9
10°	2917.4	2975.8	2946.5	2964.8	2942.9	2946.5	3005.0	2986.8	3012.2	3001.4	2990.4
12.5°	2880.9	2935.6	2902.8	2921.0	2906.4	2913.8	2968.5	2953.9	2986.8	2975.8	2968.5
15°	2848.0	2899.1	2869.9	2888.1	2877.1	2880.9	2939.2	2924.6	2961.1	2953.9	2950.2
17.5°	2793.2	2848.0	2815.1	2837.0	2826.0	2829.8	2888.1	2877.1	2913.8	2913.8	2910.0
20°	2720.1	2775.0	2749.4	2764.0	2756.8	2764.0	2815.1	2807.8	2844.4	2844.4	2844.4
22.5°	2639.9	2694.6	2665.4	2680.0	2672.8	2683.6	2731.1	2731.1	2760.4	2764.0	2767.6
25°	2548.6	2603.4	2574.1	2592.4	2585.1	2592.4	2636.2	2639.9	2665.4	2665.4	2672.8
27.5°	2439.0	2493.8	2464.6	2479.2	2475.5	2479.2	2526.6	2534.0	2548.6	2552.2	2559.5
30°	2307.6	2358.8	2329.5	2344.1	2344.1	2344.1	2391.6	2395.2	2409.9	2413.5	2420.8
32.5°	2154.2	2198.0	2176.1	2190.8	2187.1	2194.4	2227.2	2241.9	2260.1	2256.5	2260.1
35°	1979.0	2026.5	2004.5	2015.5	2019.1	2030.1	2052.0	2070.2	2073.9	2077.5	2084.9
37.5°	1789.1	1836.6	1814.6	1825.6	1829.2	1851.1	1858.5	1876.8	1884.0	1884.0	1884.0
40°	1606.5	1628.5	1610.2	1621.1	1624.8	1643.0	1650.4	1665.0	1672.2	1668.6	1665.0
42.5°	1409.4	1427.6	1409.4	1420.4	1420.4	1435.0	1438.6	1456.9	1456.9	1449.5	1438.6
45°	1215.9	1234.1	1215.9	1223.1	1223.1	1237.8	1237.8	1237.8	1245.1	1234.1	1215.9
47.5°	1033.2	1051.5	1033.2	1040.6	1037.0	1047.9	1044.2	1047.9	1037.0	1029.6	1007.8
50°	869.0	876.2	869.0	865.4	869.0	876.2	872.6	872.6	858.0	847.1	821.5
52.5°	708.4	719.2	708.4	708.4	708.4	715.6	715.6	712.0	697.4	682.8	657.2
55°	573.2	580.5	576.9	573.2	573.2	580.5	573.2	573.2	558.6	547.6	522.1
57.5°	456.4	460.0	456.4	456.4	456.4	460.0	460.0	452.8	441.8	430.9	412.6
60°	354.1	357.9	357.9	354.1	354.1	361.5	361.5	357.9	346.9	339.6	321.2
62.5°	281.1	281.1	281.1	281.1	281.1	284.8	284.8	284.8	277.5	270.2	255.6
65°	222.8	226.4	222.8	222.8	226.4	230.0	226.4	230.0	222.8	219.1	208.1
67.5°	171.6	175.2	171.6	175.2	175.2	178.9	175.2	178.9	171.6	168.0	160.6
70°	131.5	131.5	131.5	131.5	131.5	135.1	131.5	135.1	131.5	127.8	120.5
72.5°	98.6	98.6	102.2	102.2	98.6	102.2	98.6	98.6	98.6	94.9	91.2
75°	73.0	73.0	76.6	73.0	73.0	73.0	73.0	73.0	69.4	69.4	65.8
77.5°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	47.5	47.5	43.9
80°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	29.2	29.2
82.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	18.2	18.2
85°	11.0	11.0	11.0	14.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0
87.5°	3.6	3.6	3.6	7.2	3.6	3.6	7.2	7.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3089.0	3099.9	3099.9	3089.0	3114.5	3092.6	3136.4	3096.2	3107.2	3143.8	3140.1
5°	3078.0	3092.6	3096.2	3089.0	3121.9	3103.5	3147.4	3107.2	3125.5	3162.0	3162.0
7.5°	3063.4	3081.6	3089.0	3096.2	3125.5	3107.2	3158.4	3118.1	3143.8	3187.5	3183.9
10°	3030.5	3056.1	3070.8	3081.6	3110.9	3099.9	3154.6	3121.9	3143.8	3194.9	3191.1
12.5°	3012.2	3041.5	3063.4	3081.6	3114.5	3107.2	3162.0	3132.8	3162.0	3213.1	3213.1
15°	2997.6	3030.5	3056.1	3089.0	3121.9	3114.5	3172.9	3147.4	3176.6	3238.6	3235.0
17.5°	2961.1	3001.4	3026.9	3063.4	3096.2	3092.6	3154.6	3136.4	3169.2	3227.8	3231.4
20°	2899.1	2935.6	2964.8	3008.6	3045.1	3037.9	3103.5	3085.2	3118.1	3180.2	3183.9
22.5°	2818.8	2855.2	2884.5	2932.0	2964.8	2961.1	3026.9	3008.6	3041.5	3099.9	3103.5
25°	2723.9	2756.8	2785.9	2829.8	2866.2	2866.2	2924.6	2906.4	2942.9	3001.4	3001.4
27.5°	2607.0	2636.2	2661.8	2712.9	2742.1	2742.1	2796.9	2778.6	2815.1	2866.2	2862.6
30°	2464.6	2490.1	2512.0	2555.9	2581.4	2585.1	2632.5	2614.2	2650.8	2694.6	2694.6
32.5°	2293.0	2318.5	2333.1	2387.9	2406.1	2402.5	2439.0	2420.8	2457.2	2504.8	2493.8
35°	2110.4	2121.4	2132.4	2187.1	2194.4	2179.8	2216.2	2198.0	2223.6	2271.1	2263.8
37.5°	1902.2	1906.0	1906.0	1953.4	1957.1	1946.1	1968.0	1946.1	1964.4	2008.1	2004.5
40°	1672.2	1668.6	1665.0	1701.5	1697.9	1675.9	1690.5	1672.2	1697.9	1730.8	1712.4
42.5°	1438.6	1427.6	1413.0	1431.2	1416.6	1398.4	1405.8	1376.5	1394.8	1420.4	1398.4
45°	1208.5	1186.6	1157.5	1161.1	1142.9	1120.9	1110.0	1080.8	1077.1	1102.6	1084.4
47.5°	993.1	949.4	923.8	909.1	880.0	861.8	839.8	806.9	792.4	806.9	788.6
50°	799.6	755.8	723.0	690.1	660.9	639.0	602.5	580.5	558.6	562.2	547.6
52.5°	631.6	602.5	547.6	522.1	492.9	467.4	434.5	409.0	383.4	383.4	368.8
55°	500.2	460.0	423.5	387.0	357.9	335.9	303.0	277.5	251.9	248.2	233.6
57.5°	387.0	357.9	317.6	281.1	262.9	241.0	208.1	178.9	164.2	153.4	142.4
60°	299.4	270.2	237.4	208.1	186.2	171.6	138.8	116.9	102.2	94.9	84.0
62.5°	241.0	215.4	186.2	157.0	142.4	127.8	102.2	84.0	69.4	62.1	54.8
65°	193.5	171.6	149.8	127.8	116.9	102.2	84.0	69.4	58.4	51.1	43.9
67.5°	149.8	135.1	116.9	102.2	91.2	80.4	65.8	54.8	47.5	40.1	36.5
70°	113.2	102.2	91.2	76.6	69.4	62.1	51.1	40.1	36.5	32.9	29.2
72.5°	87.6	76.6	65.8	58.4	51.1	47.5	40.1	32.9	29.2	25.5	21.9
75°	58.4	54.8	47.5	40.1	36.5	32.9	29.2	25.5	21.9	18.2	18.2
77.5°	40.1	36.5	32.9	29.2	25.5	25.5	21.9	18.2	14.6	14.6	11.0
80°	25.5	21.9	21.9	18.2	18.2	18.2	14.6	11.0	11.0	11.0	7.2
82.5°	18.2	14.6	14.6	11.0	11.0	11.0	11.0	7.2	7.2	7.2	3.6
85°	11.0	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3110.9	3143.8	3143.8	3172.9	3176.6	3169.2	3136.4	3136.4	3180.2	3205.8	3162.0
5°	3140.1	3172.9	3172.9	3202.1	3216.8	3205.8	3172.9	3176.6	3220.4	3249.6	3205.8
7.5°	3165.6	3198.5	3205.8	3238.6	3249.6	3238.6	3205.8	3213.1	3260.5	3286.1	3242.2
10°	3176.6	3209.5	3213.1	3249.6	3264.2	3249.6	3224.0	3227.8	3278.9	3297.1	3256.9
12.5°	3202.1	3235.0	3235.0	3275.1	3289.8	3278.9	3246.0	3253.2	3304.4	3322.6	3282.5
15°	3227.8	3260.5	3260.5	3304.4	3322.6	3308.0	3282.5	3286.1	3337.2	3355.5	3322.6
17.5°	3227.8	3256.9	3256.9	3304.4	3322.6	3311.6	3282.5	3286.1	3340.9	3355.5	3322.6
20°	3180.2	3213.1	3205.8	3253.2	3271.5	3260.5	3235.0	3235.0	3289.8	3304.4	3271.5
22.5°	3103.5	3132.8	3125.5	3169.2	3191.1	3176.6	3154.6	3151.0	3205.8	3220.4	3187.5
25°	2997.6	3026.9	3019.6	3063.4	3085.2	3067.0	3041.5	3045.1	3089.0	3110.9	3081.6
27.5°	2873.5	2891.8	2880.9	2924.6	2946.5	2928.2	2902.8	2906.4	2950.2	2964.8	2942.9
30°	2705.6	2720.1	2709.2	2745.8	2760.4	2749.4	2727.5	2727.5	2767.6	2785.9	2764.0
32.5°	2504.8	2515.8	2504.8	2534.0	2563.1	2541.2	2519.4	2519.4	2563.1	2577.8	2552.2
35°	2271.1	2282.0	2274.8	2303.9	2325.9	2296.6	2278.4	2271.1	2329.5	2322.2	2307.6
37.5°	2011.9	2019.1	1997.2	2048.4	2059.2	2026.5	2011.9	2004.5	2055.6	2052.0	2037.4
40°	1719.8	1727.0	1712.4	1749.0	1752.6	1727.0	1716.1	1705.1	1756.2	1752.6	1741.6
42.5°	1409.4	1413.0	1394.8	1424.0	1431.2	1405.8	1402.1	1387.5	1435.0	1427.6	1424.0
45°	1088.1	1088.1	1073.5	1095.4	1102.6	1080.8	1073.5	1069.9	1102.6	1102.6	1095.4
47.5°	788.6	777.8	759.5	792.4	796.0	781.4	777.8	766.8	799.6	799.6	792.4
50°	540.4	536.8	533.1	540.4	544.0	525.8	536.8	525.8	544.0	544.0	544.0
52.5°	361.5	357.9	350.5	357.9	357.9	346.9	346.9	343.2	357.9	357.9	350.5
55°	226.4	222.8	219.1	222.8	222.8	211.8	219.1	211.8	219.1	219.1	215.4
57.5°	138.8	131.5	131.5	127.8	127.8	120.5	124.1	124.1	124.1	124.1	124.1
60°	80.4	76.6	73.0	73.0	73.0	69.4	69.4	69.4	69.4	69.4	69.4
62.5°	51.1	51.1	47.5	47.5	47.5	47.5	47.5	43.9	47.5	47.5	47.5
65°	43.9	40.1	40.1	40.1	40.1	36.5	36.5	36.5	36.5	36.5	36.5
67.5°	36.5	32.9	32.9	32.9	32.9	29.2	29.2	29.2	29.2	29.2	29.2
70°	29.2	25.5	25.5	25.5	25.5	25.5	21.9	25.5	25.5	21.9	21.9
72.5°	21.9	21.9	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	14.6	14.6	14.6	14.6	14.6	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	11.0	11.0	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
80°	7.2	7.2	7.2	7.2	7.2	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	3.6	3.6	3.6	3.6	0.0	3.6	0.0	3.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P212841

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSWL11

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3213.1	3176.6	3158.4	3194.9	3209.5	3191.1	3176.6	3151.0	3176.6	3191.1	3209.5
5°	3256.9	3224.0	3209.5	3235.0	3256.9	3238.6	3227.8	3202.1	3227.8	3238.6	3256.9
7.5°	3297.1	3264.2	3246.0	3271.5	3297.1	3271.5	3260.5	3238.6	3260.5	3271.5	3297.1
10°	3311.6	3275.1	3260.5	3282.5	3308.0	3282.5	3267.9	3253.2	3267.9	3282.5	3308.0
12.5°	3337.2	3300.8	3282.5	3300.8	3326.2	3300.8	3286.1	3275.1	3286.1	3300.8	3326.2
15°	3373.8	3340.9	3319.0	3337.2	3370.1	3340.9	3322.6	3319.0	3322.6	3340.9	3370.1
17.5°	3373.8	3348.2	3326.2	3340.9	3373.8	3351.9	3326.2	3333.6	3326.2	3351.9	3373.8
20°	3326.2	3300.8	3282.5	3282.5	3329.9	3300.8	3278.9	3289.8	3278.9	3300.8	3329.9
22.5°	3242.2	3220.4	3202.1	3198.5	3246.0	3220.4	3191.1	3213.1	3191.1	3220.4	3246.0
25°	3132.8	3110.9	3096.2	3089.0	3136.4	3107.2	3081.6	3103.5	3081.6	3107.2	3136.4
27.5°	2990.4	2972.1	2957.5	2946.5	2990.4	2964.8	2939.2	2961.1	2939.2	2964.8	2990.4
30°	2807.8	2796.9	2782.2	2767.6	2811.5	2785.9	2760.4	2789.5	2760.4	2785.9	2811.5
32.5°	2596.0	2588.8	2570.5	2555.9	2599.6	2570.5	2552.2	2574.1	2552.2	2570.5	2599.6
35°	2351.4	2340.5	2329.5	2303.9	2351.4	2325.9	2325.9	2333.1	2325.9	2325.9	2351.4
37.5°	2077.5	2070.2	2055.6	2033.8	2073.9	2055.6	2048.4	2070.2	2048.4	2055.6	2073.9
40°	1770.9	1767.2	1756.2	1730.8	1774.5	1756.2	1745.2	1774.5	1745.2	1756.2	1774.5
42.5°	1449.5	1442.2	1431.2	1427.6	1449.5	1435.0	1445.9	1445.9	1445.9	1435.0	1449.5
45°	1117.2	1110.0	1102.6	1088.1	1113.6	1106.4	1102.6	1110.0	1102.6	1106.4	1113.6
47.5°	810.6	803.2	796.0	785.0	810.6	799.6	799.6	806.9	799.6	799.6	810.6
50°	544.0	547.6	544.0	536.8	544.0	540.4	544.0	551.4	544.0	540.4	544.0
52.5°	361.5	361.5	354.1	350.5	357.9	354.1	365.1	357.9	365.1	354.1	357.9
55°	219.1	222.8	219.1	215.4	219.1	215.4	226.4	222.8	226.4	215.4	219.1
57.5°	124.1	124.1	127.8	124.1	131.5	127.8	127.8	127.8	127.8	127.8	131.5
60°	69.4	69.4	69.4	69.4	69.4	69.4	73.0	69.4	73.0	69.4	69.4
62.5°	47.5	47.5	47.5	43.9	47.5	43.9	47.5	47.5	47.5	43.9	47.5
65°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
67.5°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
70°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
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°	11.0	11.0	11.0	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	7.2	7.2	7.2
80°	3.6	3.6	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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: P212841

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSWL11

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3194.9	3158.4	3176.6	3213.1	3162.0	3205.8	3180.2	3136.4	3136.4	3169.2	3176.6
5°	3235.0	3209.5	3224.0	3256.9	3205.8	3249.6	3220.4	3176.6	3172.9	3205.8	3216.8
7.5°	3271.5	3246.0	3264.2	3297.1	3242.2	3286.1	3260.5	3213.1	3205.8	3238.6	3249.6
10°	3282.5	3260.5	3275.1	3311.6	3256.9	3297.1	3278.9	3227.8	3224.0	3249.6	3264.2
12.5°	3300.8	3282.5	3300.8	3337.2	3282.5	3322.6	3304.4	3253.2	3246.0	3278.9	3289.8
15°	3337.2	3319.0	3340.9	3373.8	3322.6	3355.5	3337.2	3286.1	3282.5	3308.0	3322.6
17.5°	3340.9	3326.2	3348.2	3373.8	3322.6	3355.5	3340.9	3286.1	3282.5	3311.6	3322.6
20°	3282.5	3282.5	3300.8	3326.2	3271.5	3304.4	3289.8	3235.0	3235.0	3260.5	3271.5
22.5°	3198.5	3202.1	3220.4	3242.2	3187.5	3220.4	3205.8	3151.0	3154.6	3176.6	3191.1
25°	3089.0	3096.2	3110.9	3132.8	3081.6	3110.9	3089.0	3045.1	3041.5	3067.0	3085.2
27.5°	2946.5	2957.5	2972.1	2990.4	2942.9	2964.8	2950.2	2906.4	2902.8	2928.2	2946.5
30°	2767.6	2782.2	2796.9	2807.8	2764.0	2785.9	2767.6	2727.5	2727.5	2749.4	2760.4
32.5°	2555.9	2570.5	2588.8	2596.0	2552.2	2577.8	2563.1	2519.4	2519.4	2541.2	2563.1
35°	2303.9	2329.5	2340.5	2351.4	2307.6	2322.2	2329.5	2271.1	2278.4	2296.6	2325.9
37.5°	2033.8	2055.6	2070.2	2077.5	2037.4	2052.0	2055.6	2004.5	2011.9	2026.5	2059.2
40°	1730.8	1756.2	1767.2	1770.9	1741.6	1752.6	1756.2	1705.1	1716.1	1727.0	1752.6
42.5°	1427.6	1431.2	1442.2	1449.5	1424.0	1427.6	1435.0	1387.5	1402.1	1405.8	1431.2
45°	1088.1	1102.6	1110.0	1117.2	1095.4	1102.6	1102.6	1069.9	1073.5	1080.8	1102.6
47.5°	785.0	796.0	803.2	810.6	792.4	799.6	799.6	766.8	777.8	781.4	796.0
50°	536.8	544.0	547.6	544.0	544.0	544.0	544.0	525.8	536.8	525.8	544.0
52.5°	350.5	354.1	361.5	361.5	350.5	357.9	357.9	343.2	346.9	346.9	357.9
55°	215.4	219.1	222.8	219.1	215.4	219.1	219.1	211.8	219.1	211.8	222.8
57.5°	124.1	127.8	124.1	124.1	124.1	124.1	124.1	124.1	124.1	120.5	127.8
60°	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	73.0
62.5°	43.9	47.5	47.5	47.5	47.5	47.5	47.5	43.9	47.5	47.5	47.5
65°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	40.1
67.5°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	32.9
70°	21.9	21.9	21.9	21.9	21.9	21.9	25.5	25.5	21.9	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°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.6
77.5°	7.2	7.2	7.2	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	3.6	3.6	7.2
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°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	3.6	0.0	3.6
87.5°	0.0	0.0	0.0	0.0	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: P212841

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3172.9	3143.8	3143.8	3110.9	3140.1	3143.8	3107.2	3096.2	3136.4	3092.6	3114.5
5°	3202.1	3172.9	3172.9	3140.1	3162.0	3162.0	3125.5	3107.2	3147.4	3103.5	3121.9
7.5°	3238.6	3205.8	3198.5	3165.6	3183.9	3187.5	3143.8	3118.1	3158.4	3107.2	3125.5
10°	3249.6	3213.1	3209.5	3176.6	3191.1	3194.9	3143.8	3121.9	3154.6	3099.9	3110.9
12.5°	3275.1	3235.0	3235.0	3202.1	3213.1	3213.1	3162.0	3132.8	3162.0	3107.2	3114.5
15°	3304.4	3260.5	3260.5	3227.8	3235.0	3238.6	3176.6	3147.4	3172.9	3114.5	3121.9
17.5°	3304.4	3256.9	3256.9	3227.8	3231.4	3227.8	3169.2	3136.4	3154.6	3092.6	3096.2
20°	3253.2	3205.8	3213.1	3180.2	3183.9	3180.2	3118.1	3085.2	3103.5	3037.9	3045.1
22.5°	3169.2	3125.5	3132.8	3103.5	3103.5	3099.9	3041.5	3008.6	3026.9	2961.1	2964.8
25°	3063.4	3019.6	3026.9	2997.6	3001.4	3001.4	2942.9	2906.4	2924.6	2866.2	2866.2
27.5°	2924.6	2880.9	2891.8	2873.5	2862.6	2866.2	2815.1	2778.6	2796.9	2742.1	2742.1
30°	2745.8	2709.2	2720.1	2705.6	2694.6	2694.6	2650.8	2614.2	2632.5	2585.1	2581.4
32.5°	2534.0	2504.8	2515.8	2504.8	2493.8	2504.8	2457.2	2420.8	2439.0	2402.5	2406.1
35°	2303.9	2274.8	2282.0	2271.1	2263.8	2271.1	2223.6	2198.0	2216.2	2179.8	2194.4
37.5°	2048.4	1997.2	2019.1	2011.9	2004.5	2008.1	1964.4	1946.1	1968.0	1946.1	1957.1
40°	1749.0	1712.4	1727.0	1719.8	1712.4	1730.8	1697.9	1672.2	1690.5	1675.9	1697.9
42.5°	1424.0	1394.8	1413.0	1409.4	1398.4	1420.4	1394.8	1376.5	1405.8	1398.4	1416.6
45°	1095.4	1073.5	1088.1	1088.1	1084.4	1102.6	1077.1	1080.8	1110.0	1120.9	1142.9
47.5°	792.4	759.5	777.8	788.6	788.6	806.9	792.4	806.9	839.8	861.8	880.0
50°	540.4	533.1	536.8	540.4	547.6	562.2	558.6	580.5	602.5	639.0	660.9
52.5°	357.9	350.5	357.9	361.5	368.8	383.4	383.4	409.0	434.5	467.4	492.9
55°	222.8	219.1	222.8	226.4	233.6	248.2	251.9	277.5	303.0	335.9	357.9
57.5°	127.8	131.5	131.5	138.8	142.4	153.4	164.2	178.9	208.1	241.0	262.9
60°	73.0	73.0	76.6	80.4	84.0	94.9	102.2	116.9	138.8	171.6	186.2
62.5°	47.5	47.5	51.1	51.1	54.8	62.1	69.4	84.0	102.2	127.8	142.4
65°	40.1	40.1	40.1	43.9	43.9	51.1	58.4	69.4	84.0	102.2	116.9
67.5°	32.9	32.9	32.9	36.5	36.5	40.1	47.5	54.8	65.8	80.4	91.2
70°	25.5	25.5	25.5	29.2	29.2	32.9	36.5	40.1	51.1	62.1	69.4
72.5°	18.2	18.2	21.9	21.9	21.9	25.5	29.2	32.9	40.1	47.5	51.1
75°	14.6	14.6	14.6	14.6	18.2	18.2	21.9	25.5	29.2	32.9	36.5
77.5°	7.2	7.2	11.0	11.0	11.0	14.6	14.6	18.2	21.9	25.5	25.5
80°	7.2	7.2	7.2	7.2	7.2	11.0	11.0	11.0	14.6	18.2	18.2
82.5°	3.6	3.6	3.6	3.6	3.6	7.2	7.2	7.2	11.0	11.0	11.0
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.2	7.2	7.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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: P212841

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSWL11

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4	3136.4
2.5°	3089.0	3099.9	3099.9	3089.0	3059.8	3085.2	3110.9	3085.2	3118.1	3059.8	3059.8
5°	3089.0	3096.2	3092.6	3078.0	3048.8	3070.8	3089.0	3063.4	3089.0	3034.1	3030.5
7.5°	3096.2	3089.0	3081.6	3063.4	3026.9	3041.5	3059.8	3030.5	3056.1	2997.6	2990.4
10°	3081.6	3070.8	3056.1	3030.5	2990.4	3001.4	3012.2	2986.8	3005.0	2946.5	2942.9
12.5°	3081.6	3063.4	3041.5	3012.2	2968.5	2975.8	2986.8	2953.9	2968.5	2913.8	2906.4
15°	3089.0	3056.1	3030.5	2997.6	2950.2	2953.9	2961.1	2924.6	2939.2	2880.9	2877.1
17.5°	3063.4	3026.9	3001.4	2961.1	2910.0	2913.8	2913.8	2877.1	2888.1	2829.8	2826.0
20°	3008.6	2964.8	2935.6	2899.1	2844.4	2844.4	2844.4	2807.8	2815.1	2764.0	2756.8
22.5°	2932.0	2884.5	2855.2	2818.8	2767.6	2764.0	2760.4	2731.1	2731.1	2683.6	2672.8
25°	2829.8	2785.9	2756.8	2723.9	2672.8	2665.4	2665.4	2639.9	2636.2	2592.4	2585.1
27.5°	2712.9	2661.8	2636.2	2607.0	2559.5	2552.2	2548.6	2534.0	2526.6	2479.2	2475.5
30°	2555.9	2512.0	2490.1	2464.6	2420.8	2413.5	2409.9	2395.2	2391.6	2344.1	2344.1
32.5°	2387.9	2333.1	2318.5	2293.0	2260.1	2256.5	2260.1	2241.9	2227.2	2194.4	2187.1
35°	2187.1	2132.4	2121.4	2110.4	2084.9	2077.5	2073.9	2070.2	2052.0	2030.1	2019.1
37.5°	1953.4	1906.0	1906.0	1902.2	1884.0	1884.0	1884.0	1876.8	1858.5	1851.1	1829.2
40°	1701.5	1665.0	1668.6	1672.2	1665.0	1668.6	1672.2	1665.0	1650.4	1643.0	1624.8
42.5°	1431.2	1413.0	1427.6	1438.6	1438.6	1449.5	1456.9	1456.9	1438.6	1435.0	1420.4
45°	1161.1	1157.5	1186.6	1208.5	1215.9	1234.1	1245.1	1237.8	1237.8	1237.8	1223.1
47.5°	909.1	923.8	949.4	993.1	1007.8	1029.6	1037.0	1047.9	1044.2	1047.9	1037.0
50°	690.1	723.0	755.8	799.6	821.5	847.1	858.0	872.6	872.6	876.2	869.0
52.5°	522.1	547.6	602.5	631.6	657.2	682.8	697.4	712.0	715.6	715.6	708.4
55°	387.0	423.5	460.0	500.2	522.1	547.6	558.6	573.2	573.2	580.5	573.2
57.5°	281.1	317.6	357.9	387.0	412.6	430.9	441.8	452.8	460.0	460.0	456.4
60°	208.1	237.4	270.2	299.4	321.2	339.6	346.9	357.9	361.5	361.5	354.1
62.5°	157.0	186.2	215.4	241.0	255.6	270.2	277.5	284.8	284.8	284.8	281.1
65°	127.8	149.8	171.6	193.5	208.1	219.1	222.8	230.0	226.4	230.0	226.4
67.5°	102.2	116.9	135.1	149.8	160.6	168.0	171.6	178.9	175.2	178.9	175.2
70°	76.6	91.2	102.2	113.2	120.5	127.8	131.5	135.1	131.5	131.5	131.5
72.5°	58.4	65.8	76.6	87.6	91.2	94.9	98.6	98.6	98.6	102.2	98.6
75°	40.1	47.5	54.8	58.4	65.8	69.4	69.4	73.0	73.0	73.0	73.0
77.5°	29.2	32.9	36.5	40.1	43.9	47.5	47.5	51.1	51.1	51.1	51.1
80°	18.2	21.9	21.9	25.5	29.2	29.2	32.9	32.9	32.9	32.9	32.9
82.5°	11.0	14.6	14.6	18.2	18.2	18.2	21.9	21.9	21.9	21.9	21.9
85°	7.2	7.2	7.2	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.2	7.2	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: P212841

CATALOG NUMBER: LE_6B50D010R EC6B30509027 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	3136.4	3136.4	3136.4	3136.4
2.5°	3089.0	3070.8	3099.9	3056.1
5°	3056.1	3037.9	3074.4	3019.6
7.5°	3015.9	2997.6	3030.5	2975.8
10°	2964.8	2946.5	2975.8	2917.4
12.5°	2921.0	2902.8	2935.6	2880.9
15°	<i>2888.1</i>	<i>2869.9</i>	<i>2899.1</i>	<i>2848.0</i>
17.5°	2837.0	2815.1	2848.0	2793.2
20°	2764.0	2749.4	2775.0	2720.1
22.5°	2680.0	2665.4	2694.6	2639.9
25°	2592.4	2574.1	2603.4	2548.6
27.5°	2479.2	2464.6	2493.8	2439.0
30°	2344.1	2329.5	2358.8	2307.6
32.5°	2190.8	2176.1	2198.0	2154.2
35°	2015.5	2004.5	2026.5	1979.0
37.5°	1825.6	1814.6	1836.6	1789.1
40°	1621.1	1610.2	1628.5	1606.5
42.5°	1420.4	1409.4	1427.6	1409.4
45°	1223.1	1215.9	1234.1	1215.9
47.5°	1040.6	1033.2	1051.5	1033.2
50°	865.4	869.0	876.2	869.0
52.5°	708.4	708.4	719.2	708.4
55°	573.2	576.9	580.5	573.2
57.5°	456.4	456.4	460.0	456.4
60°	354.1	357.9	357.9	354.1
62.5°	281.1	281.1	281.1	281.1
65°	222.8	222.8	226.4	222.8
67.5°	175.2	171.6	175.2	171.6
70°	131.5	131.5	131.5	131.5
72.5°	102.2	102.2	98.6	98.6
75°	73.0	76.6	73.0	73.0
77.5°	51.1	51.1	51.1	51.1
80°	32.9	32.9	32.9	32.9
82.5°	21.9	21.9	21.9	21.9
85°	14.6	11.0	11.0	11.0
87.5°	7.2	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°





















(END OF REPORT)