

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: P252509

Luminaire Tested: **LE_6B50D010R EC6B30508050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252509
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 EC6B30508050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5872.5 lumens
Efficiency: N/A
Efficacy: 99.9 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

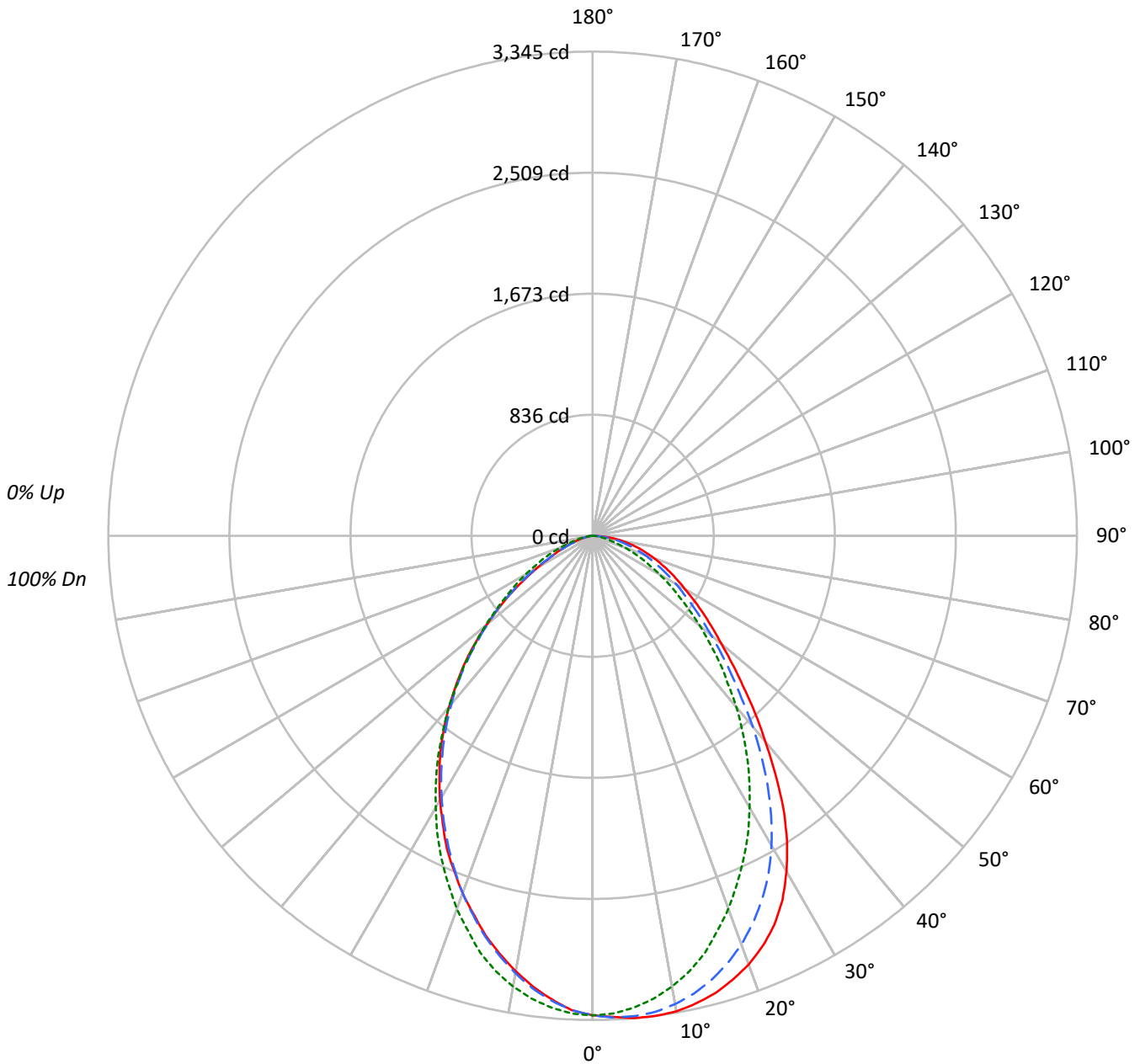
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	216142	216142	216142
5°	219070	214250	210642
10°	221000	209414	202398
15°	220964	201694	192995
20°	218829	190398	182414
25°	213644	177544	171576
30°	201743	163263	158758
35°	182871	148058	146219
40°	157931	131666	131283
45°	135435	114629	115469
50°	117685	98066	96675
55°	105725	82692	77459
60°	96060	69651	57033
65°	90215	57550	41912
70°	86010	44750	30711
75°	82377	32492	20897
80°	77771	22505	13826
85°	68867	13773	6887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	5.3
10°-20°	848.8	14.5
20°-30°	1178.3	20.1
30°-40°	1220.5	20.8
40°-50°	1002.9	17.1
50°-60°	689.3	11.7
60°-70°	396.3	6.7
70°-80°	182.2	3.1
80°-90°	44.4	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°	2337.0	39.8
0°-40°	3557.5	60.6
0°-60°	5249.7	89.4
0°-90°	5872.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5872.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3313	3313	3313	3313	3313	
5°	3345	3331	3272	3226	3216	319
15°	3272	3175	2986	2867	2857	921
25°	2968	2770	2466	2360	2384	1358
35°	2296	2107	1859	1804	1836	1424
45°	1468	1357	1242	1228	1252	1143
55°	930	842	727	686	681	836
65°	584	511	373	262	272	582
75°	327	258	129	83	83	345
85°	92	64	18	9	9	103
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°	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0
2.5°	3326.8	3354.4	3336.0	3331.4	3340.6	3340.6	3340.6	3326.8	3336.0	3322.1	3331.4
5°	3345.1	3368.1	3349.8	3340.6	3349.8	3354.4	3340.6	3331.4	3345.1	3326.8	3331.4
7.5°	3345.1	3368.1	3349.8	3345.1	3349.8	3349.8	3345.1	3326.8	3336.0	3317.5	3317.5
10°	3336.0	3354.4	3336.0	3326.8	3331.4	3326.8	3326.8	3303.8	3308.4	3285.4	3285.4
12.5°	3308.4	3331.4	3308.4	3299.1	3299.1	3299.1	3285.4	3267.0	3271.5	3244.0	3239.4
15°	3271.5	3290.0	3267.0	3257.8	3257.8	3253.1	3244.0	3216.4	3216.4	3188.8	3174.9
17.5°	3216.4	3234.8	3216.4	3202.5	3197.9	3188.8	3179.5	3151.9	3142.8	3110.5	3096.8
20°	3151.9	3165.8	3147.2	3133.5	3124.2	3115.1	3096.8	3069.1	3059.9	3027.6	3004.6
22.5°	3069.1	3087.5	3059.9	3046.1	3036.9	3023.1	3004.6	2977.0	2963.2	2921.9	2894.2
25°	2967.9	2977.0	2954.0	2940.2	2921.9	2912.6	2898.9	2862.0	2848.2	2802.2	2770.0
27.5°	2839.0	2848.2	2820.6	2811.4	2788.4	2779.2	2760.8	2728.6	2710.1	2664.1	2632.0
30°	2678.0	2687.1	2668.8	2655.0	2636.6	2618.1	2604.4	2572.1	2544.5	2498.5	2470.9
32.5°	2498.5	2512.4	2493.9	2475.5	2443.2	2447.9	2424.9	2392.8	2369.6	2328.2	2296.1
35°	2296.1	2305.2	2282.2	2277.6	2259.2	2240.9	2217.9	2194.9	2181.0	2135.0	2107.4
37.5°	2070.6	2093.6	2070.6	2052.2	2043.0	2029.2	2015.4	1983.1	1974.0	1946.4	1909.5
40°	1854.4	1868.1	1854.4	1835.9	1822.1	1822.1	1803.8	1785.4	1762.2	1734.8	1720.9
42.5°	1661.1	1651.9	1647.2	1638.1	1619.6	1615.1	1610.5	1587.5	1573.6	1546.0	1523.0
45°	1467.9	1472.4	1463.2	1458.6	1444.9	1435.6	1426.4	1408.0	1403.4	1375.8	1357.4
47.5°	1306.8	1302.1	1293.0	1293.0	1283.8	1274.6	1265.4	1251.5	1247.0	1224.0	1205.5
50°	1159.5	1164.1	1159.5	1154.9	1141.1	1136.5	1127.4	1118.1	1108.9	1085.9	1067.5
52.5°	1039.9	1035.2	1030.8	1030.8	1016.9	1012.2	1003.1	993.9	984.6	961.6	947.9
55°	929.5	929.5	924.9	920.2	906.5	901.9	897.2	888.0	874.2	855.9	842.0
57.5°	828.2	828.2	823.6	819.0	809.9	809.9	800.6	791.4	782.2	763.9	745.4
60°	736.2	740.9	736.2	731.6	722.4	722.4	717.8	704.0	699.4	676.4	662.6
62.5°	658.0	658.0	658.0	653.4	648.8	639.6	639.6	625.8	616.6	602.8	584.4
65°	584.4	584.4	584.4	579.8	570.6	566.0	561.4	552.1	543.0	529.1	510.8
67.5°	515.4	515.4	515.4	510.8	501.5	497.0	492.4	487.8	473.9	460.1	441.8
70°	450.9	450.9	446.4	441.8	437.1	432.5	427.9	418.8	409.5	391.1	377.2
72.5°	386.5	386.5	386.5	377.2	372.8	372.8	363.5	358.9	349.8	331.2	317.5
75°	326.8	322.1	322.1	317.5	312.9	308.2	303.8	299.1	285.2	276.1	257.6
77.5°	266.9	266.9	262.2	257.6	257.6	253.1	248.5	239.2	234.6	220.9	207.0
80°	207.0	207.0	207.0	207.0	202.5	197.9	197.9	188.6	184.0	170.2	161.0
82.5°	156.5	151.9	151.9	151.9	147.2	142.6	142.6	138.0	133.5	124.2	115.0
85°	92.0	87.4	87.4	87.4	82.9	82.9	78.2	78.2	73.6	64.4	64.4
87.5°	27.6	27.6	32.2	32.2	27.6	27.6	27.6	27.6	27.6	23.0	23.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0
2.5°	3322.1	3336.0	3317.5	3313.0	3331.4	3322.1	3317.5	3308.4	3313.0	3303.8	3290.0
5°	3317.5	3336.0	3313.0	3299.1	3322.1	3308.4	3299.1	3290.0	3290.0	3271.5	3262.4
7.5°	3303.8	3313.0	3290.0	3276.1	3290.0	3276.1	3267.0	3253.1	3248.5	3225.5	3211.8
10°	3267.0	3276.1	3248.5	3230.1	3244.0	3225.5	3211.8	3197.9	3188.8	3161.1	3142.8
12.5°	3216.4	3220.9	3188.8	3165.8	3174.9	3161.1	3138.1	3119.8	3110.5	3082.9	3059.9
15°	3147.2	3151.9	3115.1	3082.9	3092.1	3073.8	3046.1	3027.6	3013.9	2986.2	2954.0
17.5°	3064.5	3059.9	3018.5	2986.2	2990.9	2967.9	2940.2	2912.6	2894.2	2862.0	2839.0
20°	2972.5	2958.6	2912.6	2875.9	2880.4	2852.9	2820.6	2793.0	2770.0	2742.4	2710.1
22.5°	2857.4	2839.0	2797.6	2751.6	2756.2	2733.2	2687.1	2664.1	2641.1	2604.4	2576.8
25°	2733.2	2705.6	2664.1	2618.1	2618.1	2590.5	2553.8	2526.1	2503.1	2466.4	2434.1
27.5°	2586.0	2572.1	2516.9	2480.1	2475.5	2447.9	2415.8	2383.5	2355.9	2323.6	2291.5
30°	2424.9	2401.9	2360.5	2319.1	2309.9	2286.9	2254.6	2217.9	2199.4	2167.2	2139.6
32.5°	2254.6	2231.6	2185.6	2144.2	2139.6	2121.2	2093.6	2056.8	2038.4	2015.4	1997.0
35°	2061.4	2052.2	2006.1	1974.0	1974.0	1955.6	1928.0	1895.8	1882.0	1859.0	1835.9
37.5°	1877.4	1863.5	1822.1	1794.5	1794.5	1771.5	1743.9	1730.1	1716.2	1697.9	1684.1
40°	1684.1	1674.9	1642.6	1615.1	1619.6	1601.2	1582.9	1564.5	1555.2	1546.0	1532.2
42.5°	1504.6	1495.4	1472.4	1449.4	1449.4	1435.6	1417.2	1403.4	1394.2	1380.4	1375.8
45°	1343.6	1329.8	1311.4	1288.4	1288.4	1274.6	1265.4	1256.1	1251.5	1242.4	1228.5
47.5°	1187.1	1178.0	1159.5	1136.5	1136.5	1136.5	1118.1	1104.4	1104.4	1095.1	1090.5
50°	1053.8	1039.9	1026.1	1007.8	1007.8	998.5	984.6	970.9	970.9	966.2	957.1
52.5°	929.5	920.2	901.9	883.5	883.5	874.2	860.5	855.9	851.2	837.5	832.9
55°	823.6	814.4	800.6	777.6	773.0	768.4	754.6	745.4	740.9	727.0	727.0
57.5°	727.0	717.8	694.8	681.0	676.4	667.2	653.4	644.1	639.6	630.4	621.1
60°	644.1	630.4	612.0	593.6	589.0	579.8	566.0	556.8	552.1	533.8	524.5
62.5°	566.0	552.1	533.8	515.4	510.8	501.5	483.1	473.9	464.8	446.4	437.1
65°	492.4	478.5	460.1	441.8	432.5	427.9	409.5	395.8	386.5	372.8	354.2
67.5°	423.4	409.5	391.1	368.1	368.1	354.2	340.5	326.8	312.9	299.1	285.2
70°	358.9	345.1	326.8	308.2	303.8	294.5	280.6	262.2	253.1	234.6	220.9
72.5°	299.1	285.2	266.9	248.5	243.9	234.6	220.9	202.5	188.6	174.9	161.0
75°	243.9	230.1	211.6	197.9	193.2	184.0	170.2	151.9	138.0	128.9	115.0
77.5°	193.2	179.5	165.6	151.9	147.2	138.0	124.2	115.0	101.2	92.0	78.2
80°	147.2	138.0	124.2	115.0	110.4	101.2	92.0	78.2	69.0	59.9	55.2
82.5°	105.9	96.6	87.4	73.6	73.6	64.4	59.9	50.6	41.4	36.8	32.2
85°	59.9	50.6	46.0	41.4	36.8	36.8	32.2	27.6	23.0	18.4	18.4
87.5°	18.4	18.4	13.8	13.8	13.8	13.8	9.2	9.2	9.2	9.2	9.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0
2.5°	3290.0	3294.5	3285.4	3294.5	3285.4	3290.0	3280.8	3290.0	3280.8	3290.0	3271.5
5°	3257.8	3257.8	3244.0	3253.1	3244.0	3248.5	3230.1	3234.8	3225.5	3234.8	3216.4
7.5°	3202.5	3207.1	3184.1	3193.4	3179.5	3179.5	3165.8	3170.4	3156.5	3161.1	3147.2
10°	3138.1	3133.5	3110.5	3119.8	3101.2	3101.2	3087.5	3087.5	3069.1	3073.8	3055.2
12.5°	3046.1	3041.5	3013.9	3023.1	3004.6	3004.6	2990.9	2990.9	2972.5	2981.6	2963.2
15°	2940.2	2935.6	2908.0	2912.6	2894.2	2894.2	2875.9	2880.4	2866.6	2875.9	2857.4
17.5°	2820.6	2816.0	2788.4	2793.0	2770.0	2774.6	2760.8	2756.2	2747.0	2751.6	2737.8
20°	2696.4	2687.1	2659.6	2664.1	2655.0	2641.1	2632.0	2636.6	2627.4	2636.6	2622.8
22.5°	2567.5	2549.1	2526.1	2526.1	2516.9	2516.9	2503.1	2512.4	2493.9	2507.8	2498.5
25°	2420.2	2406.5	2388.1	2397.2	2378.9	2378.9	2365.1	2369.6	2360.5	2369.6	2360.5
27.5°	2277.6	2268.5	2240.9	2250.0	2236.2	2240.9	2227.0	2231.6	2227.0	2236.2	2227.0
30°	2125.9	2121.2	2102.8	2102.8	2098.2	2093.6	2089.0	2089.0	2084.4	2098.2	2089.0
32.5°	1983.1	1969.4	1951.0	1964.8	1941.8	1955.6	1946.4	1955.6	1946.4	1955.6	1951.0
35°	1835.9	1831.4	1808.4	1812.9	1808.4	1808.4	1803.8	1803.8	1803.8	1817.5	1817.5
37.5°	1679.5	1674.9	1661.1	1665.6	1656.5	1651.9	1651.9	1661.1	1661.1	1670.2	1670.2
40°	1527.6	1532.2	1518.5	1518.5	1513.9	1513.9	1513.9	1523.0	1518.5	1527.6	1523.0
42.5°	1375.8	1375.8	1362.0	1366.6	1362.0	1366.6	1366.6	1375.8	1375.8	1380.4	1375.8
45°	1233.1	1233.1	1228.5	1233.1	1224.0	1228.5	1224.0	1233.1	1228.5	1233.1	1233.1
47.5°	1090.5	1090.5	1090.5	1085.9	1085.9	1085.9	1085.9	1085.9	1081.4	1090.5	1085.9
50°	957.1	961.6	957.1	957.1	952.5	957.1	952.5	952.5	943.2	947.9	947.9
52.5°	837.5	837.5	828.2	828.2	828.2	823.6	823.6	823.6	819.0	819.0	809.9
55°	722.4	722.4	713.2	713.2	708.6	704.0	699.4	699.4	685.6	685.6	671.8
57.5°	616.6	612.0	598.1	598.1	589.0	584.4	579.8	575.1	566.0	556.8	552.1
60°	520.0	510.8	501.5	497.0	487.8	478.5	469.4	460.1	450.9	446.4	441.8
62.5°	427.9	414.1	404.9	400.4	391.1	377.2	368.1	358.9	349.8	345.1	335.9
65°	345.1	331.2	317.5	312.9	303.8	294.5	280.6	271.5	262.2	257.6	257.6
67.5°	271.5	257.6	239.2	239.2	230.1	220.9	211.6	202.5	197.9	202.5	202.5
70°	202.5	193.2	179.5	174.9	165.6	156.5	151.9	151.9	151.9	156.5	151.9
72.5°	151.9	138.0	128.9	124.2	119.6	115.0	115.0	115.0	110.4	115.0	115.0
75°	105.9	96.6	87.4	87.4	82.9	82.9	82.9	82.9	82.9	82.9	82.9
77.5°	73.6	64.4	59.9	59.9	59.9	55.2	55.2	55.2	55.2	55.2	55.2
80°	46.0	46.0	41.4	41.4	36.8	36.8	36.8	36.8	36.8	36.8	36.8
82.5°	27.6	27.6	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
85°	13.8	13.8	13.8	13.8	13.8	9.2	9.2	9.2	9.2	9.2	9.2
87.5°	4.6	4.6	4.6	4.6	4.6	9.2	9.2	9.2	9.2	9.2	9.2
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: P252509

CATALOG NUMBER: LE_6B50D010R EC6B30508050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0	3313.0
2.5°	3271.5	3285.4	3267.0	3280.8	3276.1	3271.5	3262.4	3280.8
5°	3216.4	3220.9	3202.5	3220.9	3216.4	3207.1	3197.9	3216.4
7.5°	3138.1	3151.9	3128.9	3147.2	3142.8	3133.5	3124.2	3142.8
10°	3050.6	3064.5	3046.1	3059.9	3059.9	3050.6	3036.9	3055.2
12.5°	2954.0	2963.2	2944.9	2963.2	2958.6	2949.5	2944.9	2958.6
15°	2848.2	2862.0	2843.6	2857.4	2852.9	2848.2	2843.6	2857.4
17.5°	2733.2	2747.0	2733.2	2747.0	2747.0	2733.2	2728.6	2737.8
20°	2618.1	2627.4	2613.5	2627.4	2622.8	2622.8	2613.5	2627.4
22.5°	2489.4	2503.1	2493.9	2503.1	2498.5	2498.5	2493.9	2503.1
25°	2360.5	2374.2	2360.5	2374.2	2369.6	2369.6	2360.5	2383.5
27.5°	2231.6	2240.9	2227.0	2245.5	2240.9	2231.6	2236.2	2240.9
30°	2093.6	2102.8	2093.6	2107.4	2107.4	2107.4	2098.2	2107.4
32.5°	1955.6	1969.4	1955.6	1969.4	1964.8	1964.8	1960.1	1969.4
35°	1817.5	1822.1	1812.9	1826.8	1826.8	1831.4	1822.1	1835.9
37.5°	1674.9	1679.5	1674.9	1679.5	1688.8	1674.9	1684.1	1688.8
40°	1527.6	1536.9	1532.2	1536.9	1536.9	1541.5	1536.9	1541.5
42.5°	1380.4	1389.6	1380.4	1394.2	1389.6	1389.6	1394.2	1394.2
45°	1228.5	1242.4	1233.1	1242.4	1247.0	1242.4	1242.4	1251.5
47.5°	1085.9	1095.1	1090.5	1095.1	1095.1	1095.1	1095.1	1104.4
50°	943.2	947.9	947.9	952.5	952.5	957.1	947.9	952.5
52.5°	800.6	809.9	809.9	809.9	805.2	809.9	809.9	809.9
55°	671.8	676.4	667.2	676.4	676.4	671.8	671.8	681.0
57.5°	547.5	547.5	547.5	547.5	547.5	543.0	547.5	547.5
60°	432.5	437.1	432.5	432.5	432.5	432.5	427.9	437.1
62.5°	335.9	335.9	331.2	335.9	335.9	335.9	340.5	340.5
65°	262.2	266.9	262.2	266.9	266.9	266.9	266.9	271.5
67.5°	207.0	207.0	207.0	207.0	207.0	207.0	207.0	207.0
70°	156.5	156.5	156.5	161.0	156.5	156.5	156.5	161.0
72.5°	115.0	115.0	115.0	115.0	115.0	115.0	119.6	119.6
75°	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
77.5°	55.2	55.2	55.2	59.9	55.2	59.9	55.2	55.2
80°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
82.5°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
85°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
87.5°	9.2	9.2	9.2	9.2	4.6	4.6	4.6	4.6
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)