

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: P252508

Luminaire Tested: **LE_6B50D010R EC6B30508040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252508
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 EC6B30508040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5876.3 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

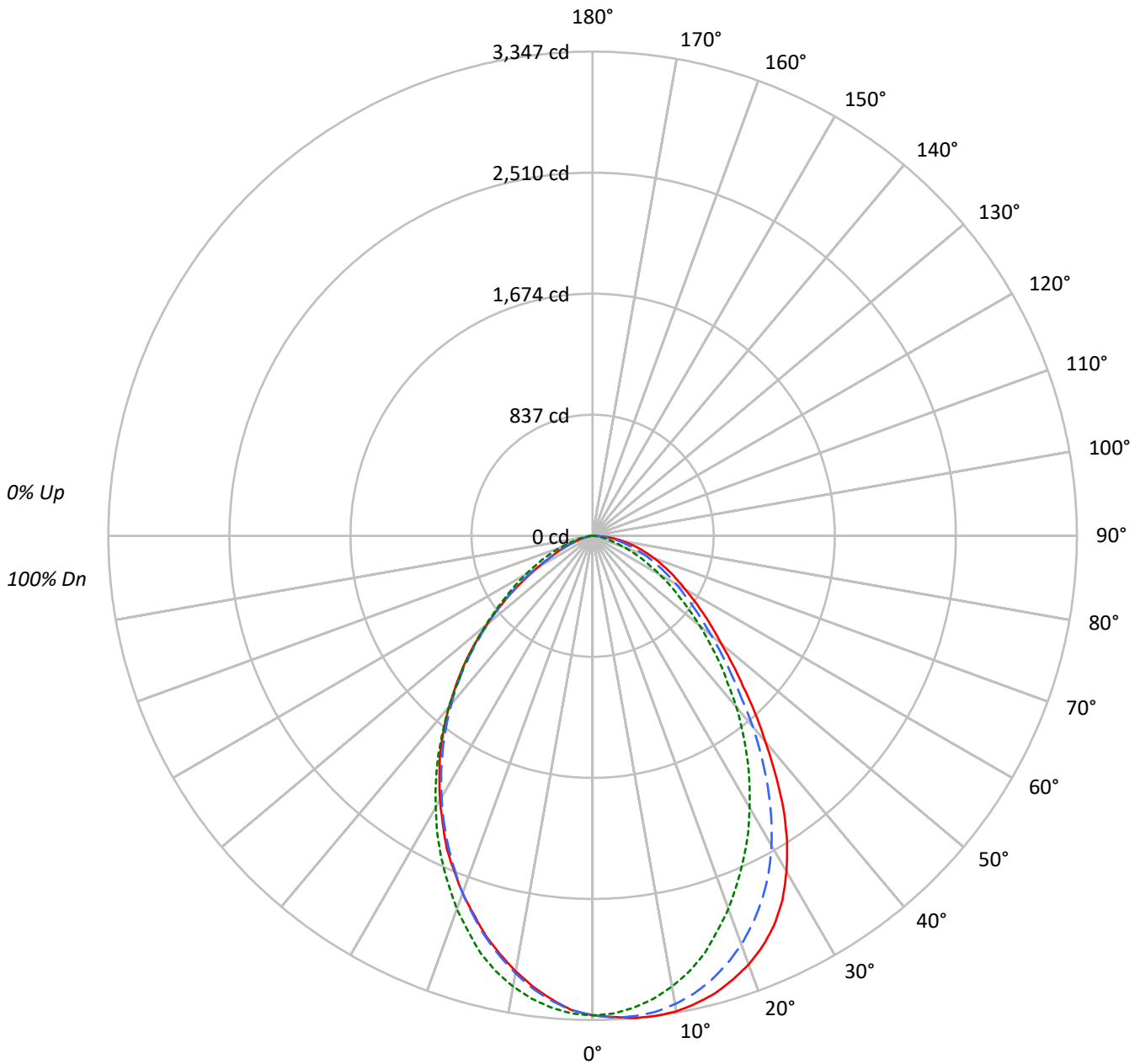
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	216279	216279	216279
5°	219208	214388	210772
10°	221139	209546	202531
15°	221106	201822	193116
20°	218968	190516	182525
25°	213781	177652	171684
30°	201863	163368	158863
35°	182982	148146	146314
40°	158025	131751	131359
45°	135518	114694	115552
50°	117756	98137	96736
55°	105793	82748	77505
60°	96112	69690	57073
65°	90277	57581	41928
70°	86067	44807	30730
75°	82402	32492	20897
80°	77846	22505	13864
85°	68942	13773	6887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	5.3
10°-20°	849.3	14.5
20°-30°	1179.1	20.1
30°-40°	1221.3	20.8
40°-50°	1003.6	17.1
50°-60°	689.8	11.7
60°-70°	396.5	6.7
70°-80°	182.3	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°	2338.5	39.8
0°-40°	3559.7	60.6
0°-60°	5253.1	89.4
0°-90°	5876.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5876.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3315	3315	3315	3315	3315	
5°	3347	3334	3274	3228	3218	319
15°	3274	3177	2988	2868	2859	922
25°	2970	2772	2468	2362	2385	1359
35°	2298	2109	1860	1805	1837	1425
45°	1469	1358	1243	1229	1252	1144
55°	930	843	728	686	681	837
65°	585	511	373	262	272	582
75°	327	258	129	83	83	346
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°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3328.9	3356.5	3338.1	3333.5	3342.8	3342.8	3342.8	3328.9	3338.1	3324.2	3333.5
5°	3347.2	3370.4	3351.9	3342.8	3351.9	3356.5	3342.8	3333.5	3347.2	3328.9	3333.5
7.5°	3347.2	3370.4	3351.9	3347.2	3351.9	3351.9	3347.2	3328.9	3338.1	3319.6	3319.6
10°	3338.1	3356.5	3338.1	3328.9	3333.5	3328.9	3328.9	3305.9	3310.5	3287.5	3287.5
12.5°	3310.5	3333.5	3310.5	3301.2	3301.2	3301.2	3287.5	3269.0	3273.6	3246.0	3241.4
15°	3273.6	3292.0	3269.0	3259.9	3259.9	3255.2	3246.0	3218.4	3218.4	3190.8	3177.0
17.5°	3218.4	3236.8	3218.4	3204.6	3200.0	3190.8	3181.5	3153.9	3144.8	3112.5	3098.6
20°	3153.9	3167.8	3149.4	3135.5	3126.2	3117.1	3098.6	3071.0	3061.9	3029.6	3006.6
22.5°	3071.0	3089.5	3061.9	3048.0	3038.9	3025.0	3006.6	2979.0	2965.1	2923.8	2896.1
25°	2969.8	2979.0	2956.0	2942.1	2923.8	2914.5	2900.8	2863.9	2850.0	2804.0	2771.8
27.5°	2840.9	2850.0	2822.4	2813.2	2790.2	2781.0	2762.6	2730.4	2711.9	2665.9	2633.6
30°	2679.6	2688.9	2670.5	2656.6	2638.2	2619.9	2606.0	2573.8	2546.1	2500.1	2472.5
32.5°	2500.1	2513.9	2495.5	2477.1	2444.9	2449.5	2426.5	2394.2	2371.2	2329.8	2297.5
35°	2297.5	2306.8	2283.8	2279.1	2260.8	2242.2	2219.2	2196.2	2182.4	2136.4	2108.8
37.5°	2071.9	2095.0	2071.9	2053.5	2044.2	2030.5	2016.6	1984.5	1975.2	1947.6	1910.8
40°	1855.5	1869.4	1855.5	1837.1	1823.2	1823.2	1804.9	1786.5	1763.4	1735.8	1722.0
42.5°	1662.1	1652.9	1648.4	1639.1	1620.8	1616.1	1611.5	1588.5	1574.6	1547.0	1524.0
45°	1468.8	1473.4	1464.1	1459.5	1445.8	1436.5	1427.4	1408.9	1404.2	1376.6	1358.2
47.5°	1307.6	1303.0	1293.8	1293.8	1284.6	1275.4	1266.1	1252.4	1247.8	1224.8	1206.4
50°	1160.2	1164.9	1160.2	1155.6	1141.9	1137.2	1128.0	1118.9	1109.6	1086.6	1068.2
52.5°	1040.6	1036.0	1031.4	1031.4	1017.5	1013.0	1003.8	994.5	985.4	962.2	948.5
55°	930.1	930.1	925.5	920.9	907.0	902.4	897.9	888.6	874.8	856.4	842.6
57.5°	828.8	828.8	824.1	819.5	810.4	810.4	801.1	791.9	782.8	764.2	745.9
60°	736.6	741.2	736.6	732.1	722.9	722.9	718.2	704.5	699.9	676.9	663.0
62.5°	658.4	658.4	658.4	653.8	649.2	640.0	640.0	626.1	617.0	603.1	584.8
65°	584.8	584.8	584.8	580.1	570.9	566.4	561.8	552.5	543.2	529.5	511.1
67.5°	515.6	515.6	515.6	511.1	501.9	497.2	492.6	488.0	474.2	460.4	442.0
70°	451.2	451.2	446.6	442.0	437.4	432.8	428.2	419.0	409.8	391.4	377.5
72.5°	386.8	386.8	386.8	377.5	373.0	373.0	363.8	359.1	349.9	331.5	317.8
75°	326.9	322.2	322.2	317.8	313.1	308.5	303.9	299.2	285.5	276.2	257.9
77.5°	267.0	267.0	262.5	257.9	257.9	253.2	248.6	239.4	234.9	221.0	207.2
80°	207.2	207.2	207.2	207.2	202.6	198.0	198.0	188.8	184.1	170.4	161.1
82.5°	156.5	152.0	152.0	152.0	147.4	142.8	142.8	138.1	133.5	124.4	115.1
85°	92.1	87.5	87.5	87.5	82.9	82.9	78.2	78.2	73.6	64.5	64.5
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°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3324.2	3338.1	3319.6	3315.1	3333.5	3324.2	3319.6	3310.5	3315.1	3305.9	3292.0
5°	3319.6	3338.1	3315.1	3301.2	3324.2	3310.5	3301.2	3292.0	3292.0	3273.6	3264.4
7.5°	3305.9	3315.1	3292.0	3278.2	3292.0	3278.2	3269.0	3255.2	3250.6	3227.6	3213.8
10°	3269.0	3278.2	3250.6	3232.2	3246.0	3227.6	3213.8	3200.0	3190.8	3163.1	3144.8
12.5°	3218.4	3223.0	3190.8	3167.8	3177.0	3163.1	3140.1	3121.8	3112.5	3084.9	3061.9
15°	3149.4	3153.9	3117.1	3084.9	3094.1	3075.6	3048.0	3029.6	3015.8	2988.1	2956.0
17.5°	3066.5	3061.9	3020.4	2988.1	2992.8	2969.8	2942.1	2914.5	2896.1	2863.9	2840.9
20°	2974.4	2960.5	2914.5	2877.6	2882.2	2854.6	2822.4	2794.8	2771.8	2744.1	2711.9
22.5°	2859.2	2840.9	2799.4	2753.4	2758.0	2734.9	2688.9	2665.9	2642.9	2606.0	2578.4
25°	2734.9	2707.2	2665.9	2619.9	2619.9	2592.2	2555.4	2527.8	2504.8	2467.9	2435.6
27.5°	2587.6	2573.8	2518.5	2481.8	2477.1	2449.5	2417.2	2385.0	2357.4	2325.1	2292.9
30°	2426.5	2403.4	2362.0	2320.5	2311.4	2288.4	2256.1	2219.2	2200.9	2168.6	2141.0
32.5°	2256.1	2233.1	2187.0	2145.6	2141.0	2122.6	2095.0	2058.1	2039.8	2016.6	1998.2
35°	2062.8	2053.5	2007.5	1975.2	1975.2	1956.9	1929.2	1897.0	1883.1	1860.1	1837.1
37.5°	1878.5	1864.8	1823.2	1795.6	1795.6	1772.6	1745.0	1731.2	1717.4	1699.0	1685.1
40°	1685.1	1676.0	1643.8	1616.1	1620.8	1602.2	1583.9	1565.5	1556.2	1547.0	1533.2
42.5°	1505.6	1496.4	1473.4	1450.4	1450.4	1436.5	1418.1	1404.2	1395.1	1381.2	1376.6
45°	1344.5	1330.6	1312.2	1289.2	1289.2	1275.4	1266.1	1257.0	1252.4	1243.1	1229.4
47.5°	1187.9	1178.8	1160.2	1137.2	1137.2	1137.2	1118.9	1105.0	1105.0	1095.9	1091.2
50°	1054.4	1040.6	1026.8	1008.4	1008.4	999.1	985.4	971.5	971.5	966.9	957.8
52.5°	930.1	920.9	902.4	884.0	884.0	874.8	861.0	856.4	851.8	838.0	833.4
55°	824.1	815.0	801.1	778.1	773.5	768.9	755.1	745.9	741.2	727.5	727.5
57.5°	727.5	718.2	695.2	681.4	676.9	667.6	653.8	644.6	640.0	630.8	621.6
60°	644.6	630.8	612.4	594.0	589.4	580.1	566.4	557.1	552.5	534.1	524.9
62.5°	566.4	552.5	534.1	515.6	511.1	501.9	483.5	474.2	465.0	446.6	437.4
65°	492.6	478.9	460.4	442.0	432.8	428.2	409.8	396.0	386.8	373.0	354.5
67.5°	423.6	409.8	391.4	368.4	368.4	354.5	340.8	326.9	313.1	299.2	285.5
70°	359.1	345.4	326.9	308.5	303.9	294.6	280.9	262.5	253.2	234.9	221.0
72.5°	299.2	285.5	267.0	248.6	244.0	234.9	221.0	202.6	188.8	175.0	161.1
75°	244.0	230.2	211.8	198.0	193.4	184.1	170.4	152.0	138.1	128.9	115.1
77.5°	193.4	179.6	165.8	152.0	147.4	138.1	124.4	115.1	101.2	92.1	78.2
80°	147.4	138.1	124.4	115.1	110.5	101.2	92.1	78.2	69.1	59.9	55.2
82.5°	105.9	96.8	87.5	73.6	73.6	64.5	59.9	50.6	41.5	36.9	32.2
85°	59.9	50.6	46.0	41.5	36.9	36.9	32.2	27.6	23.0	18.4	18.4
87.5°	18.4	18.4	13.9	13.9	13.9	13.9	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°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3292.0	3296.6	3287.5	3296.6	3287.5	3292.0	3282.9	3292.0	3282.9	3292.0	3273.6
5°	3259.9	3259.9	3246.0	3255.2	3246.0	3250.6	3232.2	3236.8	3227.6	3236.8	3218.4
7.5°	3204.6	3209.1	3186.1	3195.4	3181.5	3181.5	3167.8	3172.4	3158.5	3163.1	3149.4
10°	3140.1	3135.5	3112.5	3121.8	3103.2	3103.2	3089.5	3089.5	3071.0	3075.6	3057.2
12.5°	3048.0	3043.4	3015.8	3025.0	3006.6	3006.6	2992.8	2992.8	2974.4	2983.6	2965.1
15°	2942.1	2937.5	2909.9	2914.5	2896.1	2896.1	2877.6	2882.2	2868.5	2877.6	2859.2
17.5°	2822.4	2817.9	2790.2	2794.8	2771.8	2776.4	2762.6	2758.0	2748.8	2753.4	2739.5
20°	2698.1	2688.9	2661.2	2665.9	2656.6	2642.9	2633.6	2638.2	2629.0	2638.2	2624.4
22.5°	2569.1	2550.8	2527.8	2527.8	2518.5	2518.5	2504.8	2513.9	2495.5	2509.4	2500.1
25°	2421.9	2408.0	2389.6	2398.9	2380.4	2380.4	2366.6	2371.2	2362.0	2371.2	2362.0
27.5°	2279.1	2269.9	2242.2	2251.5	2237.6	2242.2	2228.5	2233.1	2228.5	2237.6	2228.5
30°	2127.1	2122.6	2104.1	2104.1	2099.5	2095.0	2090.4	2090.4	2085.8	2099.5	2090.4
32.5°	1984.5	1970.6	1952.2	1966.0	1943.0	1956.9	1947.6	1956.9	1947.6	1956.9	1952.2
35°	1837.1	1832.5	1809.5	1814.1	1809.5	1809.5	1804.9	1804.9	1804.9	1818.6	1818.6
37.5°	1680.5	1676.0	1662.1	1666.8	1657.5	1652.9	1652.9	1662.1	1662.1	1671.4	1671.4
40°	1528.6	1533.2	1519.4	1519.4	1514.8	1514.8	1514.8	1524.0	1519.4	1528.6	1524.0
42.5°	1376.6	1376.6	1362.9	1367.5	1362.9	1367.5	1367.5	1376.6	1376.6	1381.2	1376.6
45°	1234.0	1234.0	1229.4	1234.0	1224.8	1229.4	1224.8	1234.0	1229.4	1234.0	1234.0
47.5°	1091.2	1091.2	1091.2	1086.6	1086.6	1086.6	1086.6	1086.6	1082.0	1091.2	1086.6
50°	957.8	962.2	957.8	957.8	953.1	957.8	953.1	953.1	943.9	948.5	948.5
52.5°	838.0	838.0	828.8	828.8	828.8	824.1	824.1	824.1	819.5	819.5	810.4
55°	722.9	722.9	713.6	713.6	709.0	704.5	699.9	699.9	686.0	686.0	672.2
57.5°	617.0	612.4	598.5	598.5	589.4	584.8	580.1	575.5	566.4	557.1	552.5
60°	520.2	511.1	501.9	497.2	488.0	478.9	469.6	460.4	451.2	446.6	442.0
62.5°	428.2	414.4	405.1	400.6	391.4	377.5	368.4	359.1	349.9	345.4	336.1
65°	345.4	331.5	317.8	313.1	303.9	294.6	280.9	271.6	262.5	257.9	257.9
67.5°	271.6	257.9	239.4	239.4	230.2	221.0	211.8	202.6	198.0	202.6	202.6
70°	202.6	193.4	179.6	175.0	165.8	156.5	152.0	152.0	152.0	156.5	152.0
72.5°	152.0	138.1	128.9	124.4	119.8	115.1	115.1	115.1	110.5	115.1	115.1
75°	105.9	96.8	87.5	87.5	82.9	82.9	82.9	82.9	82.9	82.9	82.9
77.5°	73.6	64.5	59.9	59.9	59.9	55.2	55.2	55.2	55.2	55.2	55.2
80°	46.0	46.0	41.5	41.5	36.9	36.9	36.9	36.9	36.9	36.9	36.9
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°	13.9	13.9	13.9	13.9	13.9	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: P252508

CATALOG NUMBER: LE_6B50D010R EC6B30508040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3273.6	3287.5	3269.0	3282.9	3278.2	3273.6	3264.4	3282.9
5°	3218.4	3223.0	3204.6	3223.0	3218.4	3209.1	3200.0	3218.4
7.5°	3140.1	3153.9	3130.9	3149.4	3144.8	3135.5	3126.2	3144.8
10°	3052.6	3066.5	3048.0	3061.9	3061.9	3052.6	3038.9	3057.2
12.5°	2956.0	2965.1	2946.8	2965.1	2960.5	2951.4	2946.8	2960.5
15°	2850.0	2863.9	2845.5	2859.2	2854.6	2850.0	2845.5	2859.2
17.5°	2734.9	2748.8	2734.9	2748.8	2748.8	2734.9	2730.4	2739.5
20°	2619.9	2629.0	2615.2	2629.0	2624.4	2624.4	2615.2	2629.0
22.5°	2490.9	2504.8	2495.5	2504.8	2500.1	2500.1	2495.5	2504.8
25°	2362.0	2375.8	2362.0	2375.8	2371.2	2371.2	2362.0	2385.0
27.5°	2233.1	2242.2	2228.5	2246.9	2242.2	2233.1	2237.6	2242.2
30°	2095.0	2104.1	2095.0	2108.8	2108.8	2108.8	2099.5	2108.8
32.5°	1956.9	1970.6	1956.9	1970.6	1966.0	1966.0	1961.4	1970.6
35°	1818.6	1823.2	1814.1	1827.9	1827.9	1832.5	1823.2	1837.1
37.5°	1676.0	1680.5	1676.0	1680.5	1689.8	1676.0	1685.1	1689.8
40°	1528.6	1537.9	1533.2	1537.9	1537.9	1542.4	1537.9	1542.4
42.5°	1381.2	1390.5	1381.2	1395.1	1390.5	1390.5	1395.1	1395.1
45°	1229.4	1243.1	1234.0	1243.1	1247.8	1243.1	1243.1	1252.4
47.5°	1086.6	1095.9	1091.2	1095.9	1095.9	1095.9	1095.9	1105.0
50°	943.9	948.5	948.5	953.1	953.1	957.8	948.5	953.1
52.5°	801.1	810.4	810.4	810.4	805.8	810.4	810.4	810.4
55°	672.2	676.9	667.6	676.9	676.9	672.2	672.2	681.4
57.5°	547.9	547.9	547.9	547.9	547.9	543.2	547.9	547.9
60°	432.8	437.4	432.8	432.8	432.8	432.8	428.2	437.4
62.5°	336.1	336.1	331.5	336.1	336.1	336.1	340.8	340.8
65°	262.5	267.0	262.5	267.0	267.0	267.0	267.0	271.6
67.5°	207.2	207.2	207.2	207.2	207.2	207.2	207.2	207.2
70°	156.5	156.5	156.5	161.1	156.5	156.5	156.5	161.1
72.5°	115.1	115.1	115.1	115.1	115.1	115.1	119.8	119.8
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°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
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)