

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: P252716

Luminaire Tested: **LE\_6B50D010R EC6B30508040 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30508040 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE 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: 6461.3 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

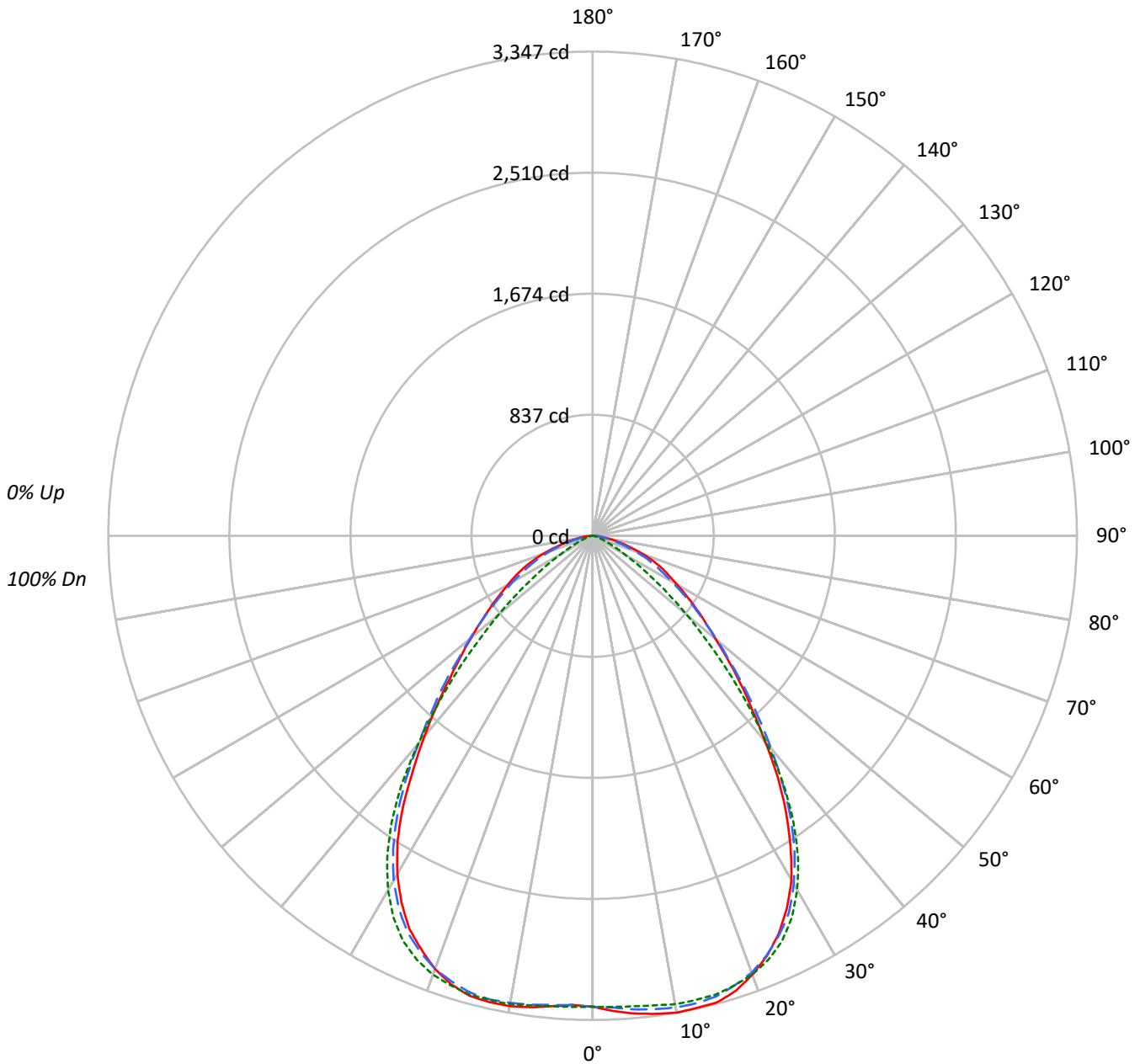
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	212384	212384	212384
5°	217105	213792	213792
10°	221755	217787	218708
15°	225469	221741	222355
20°	224098	224098	221210
25°	218755	222729	215775
30°	207084	212975	203257
35°	185563	192890	181891
40°	157642	159600	153715
45°	133396	121927	128718
50°	112620	85988	111230
55°	98980	55518	97933
60°	87709	33038	88323
65°	81030	19899	81030
70°	70273	11426	68499
75°	55708	6957	52229
80°	41515	5222	39787
85°	37877	3443	34433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.4	4.9
10°-20°	927.6	14.4
20°-30°	1395.0	21.6
30°-40°	1466.7	22.7
40°-50°	1095.7	17.0
50°-60°	682.1	10.6
60°-70°	387.9	6.0
70°-80°	159.8	2.5
80°-90°	33.0	0.5
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°	2636.0	40.8
0°-40°	4102.7	63.5
0°-60°	5880.5	91.0
0°-90°	6461.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6461.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3255	3255	3255	3255	3255	
5°	3315	3288	3264	3255	3264	317
15°	3338	3297	3283	3269	3292	939
25°	3039	3048	3094	3025	2998	1391
35°	2330	2390	2422	2353	2284	1446
45°	1446	1478	1322	1450	1395	1120
55°	870	852	488	838	861	783
65°	525	470	129	470	525	517
75°	221	175	28	170	207	240
85°	51	32	5	28	46	56
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°	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4
2.5°	3287.5	3283.0	3287.5	3278.4	3273.8	3273.8	3278.4	3269.1	3264.5	3269.1	3264.5
5°	3315.1	3306.0	3310.6	3306.0	3296.8	3296.8	3301.4	3287.5	3287.5	3292.1	3287.5
7.5°	3333.6	3333.6	3333.6	3324.4	3319.8	3315.1	3324.4	3310.6	3306.0	3306.0	3301.4
10°	3347.4	3342.8	3347.4	3338.2	3329.0	3324.4	3333.6	3324.4	3315.1	3324.4	3310.6
12.5°	3342.8	3342.8	3342.8	3338.2	3329.0	3324.4	3333.6	3319.8	3315.1	3319.8	3310.6
15°	3338.2	3324.4	3329.0	3324.4	3310.6	3310.6	3315.1	3301.4	3292.1	3306.0	3296.8
17.5°	3296.8	3287.5	3292.1	3283.0	3273.8	3269.1	3273.8	3269.1	3259.9	3269.1	3259.9
20°	3227.8	3227.8	3232.2	3223.1	3213.9	3209.2	3218.5	3209.2	3200.1	3213.9	3213.9
22.5°	3144.8	3144.8	3144.8	3140.2	3135.6	3135.6	3135.6	3131.0	3126.4	3135.6	3140.2
25°	3038.9	3034.2	3038.9	3043.5	3038.9	3034.2	3038.9	3038.9	3029.8	3048.1	3048.1
27.5°	2905.4	2905.4	2914.6	2910.0	2910.0	2905.4	2914.6	2914.6	2910.0	2923.8	2937.6
30°	2748.9	2739.6	2748.9	2748.9	2753.4	2753.4	2758.0	2758.0	2758.0	2771.9	2781.0
32.5°	2546.2	2550.9	2564.6	2560.0	2555.5	2569.2	2569.2	2578.5	2583.1	2592.2	2596.9
35°	2329.9	2334.4	2334.4	2339.0	2348.2	2339.0	2362.0	2357.5	2362.0	2380.5	2389.6
37.5°	2099.6	2085.8	2108.9	2099.6	2104.2	2104.2	2113.4	2118.0	2131.9	2154.9	2154.9
40°	1851.0	1855.6	1864.8	1869.4	1874.0	1874.0	1874.0	1887.8	1892.4	1920.0	1915.4
42.5°	1634.6	1634.6	1643.8	1648.4	1648.4	1648.4	1648.4	1662.2	1671.4	1680.6	1689.9
45°	1445.8	1432.0	1441.1	1441.1	1450.4	1445.8	1455.0	1464.2	1468.8	1482.6	1478.0
47.5°	1266.2	1261.6	1266.2	1270.9	1266.2	1270.9	1275.4	1280.0	1284.6	1284.6	1284.6
50°	1109.6	1109.6	1114.2	1118.9	1118.9	1118.9	1118.9	1123.5	1123.5	1132.6	1123.5
52.5°	980.8	985.4	985.4	980.8	985.4	985.4	990.0	990.0	985.4	985.4	971.5
55°	870.2	865.6	870.2	865.6	870.2	870.2	865.6	865.6	861.0	856.4	851.9
57.5°	764.4	764.4	764.4	764.4	759.8	764.4	759.8	755.1	755.1	745.9	732.1
60°	672.2	672.2	672.2	672.2	672.2	667.6	672.2	667.6	658.4	649.2	630.8
62.5°	594.0	589.4	594.0	589.4	589.4	584.8	584.8	580.1	571.0	561.8	543.4
65°	524.9	529.5	524.9	524.9	520.2	515.8	515.8	511.1	497.2	488.1	469.6
67.5°	451.2	446.6	446.6	446.6	442.0	442.0	442.0	432.9	423.6	409.8	391.4
70°	368.4	368.4	368.4	363.8	363.8	359.1	359.1	354.5	345.4	336.1	313.1
72.5°	290.1	290.1	290.1	280.9	285.5	280.9	280.9	271.6	267.0	253.2	239.4
75°	221.0	221.0	216.4	216.4	211.8	207.2	207.2	202.6	198.0	188.8	175.0
77.5°	161.1	161.1	161.1	156.5	152.0	147.4	147.4	142.8	138.1	133.5	124.4
80°	110.5	110.5	110.5	110.5	105.9	101.2	101.2	96.8	96.8	92.1	82.9
82.5°	73.6	73.6	73.6	73.6	69.1	69.1	69.1	64.5	59.9	59.9	50.6
85°	50.6	50.6	46.0	46.0	46.0	46.0	41.5	41.5	36.9	32.2	32.2
87.5°	27.6	27.6	27.6	27.6	23.0	23.0	23.0	23.0	18.4	18.4	13.9
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°	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4
2.5°	3278.4	3278.4	3273.8	3259.9	3264.5	3259.9	3264.5	3259.9	3246.1	3259.9	3246.1
5°	3296.8	3301.4	3292.1	3273.8	3278.4	3273.8	3273.8	3269.1	3255.4	3264.5	3255.4
7.5°	3315.1	3310.6	3306.0	3287.5	3292.1	3287.5	3287.5	3278.4	3264.5	3273.8	3259.9
10°	3324.4	3324.4	3315.1	3296.8	3296.8	3292.1	3296.8	3292.1	3273.8	3287.5	3278.4
12.5°	3324.4	3319.8	3319.8	3296.8	3301.4	3296.8	3301.4	3292.1	3278.4	3287.5	3283.0
15°	3310.6	3310.6	3306.0	3283.0	3287.5	3287.5	3292.1	3283.0	3269.1	3283.0	3273.8
17.5°	3283.0	3283.0	3278.4	3259.9	3269.1	3269.1	3273.8	3264.5	3250.8	3259.9	3259.9
20°	3227.8	3232.2	3232.2	3218.5	3227.8	3227.8	3232.2	3227.8	3223.1	3227.8	3218.5
22.5°	3163.2	3172.4	3172.4	3158.6	3167.9	3167.9	3181.6	3177.0	3167.9	3172.4	3167.9
25°	3066.5	3075.8	3085.0	3075.8	3085.0	3085.0	3098.8	3094.1	3085.0	3094.1	3080.4
27.5°	2956.0	2960.6	2969.9	2960.6	2974.5	2969.9	2983.6	2979.0	2965.2	2979.0	2974.5
30°	2799.5	2817.9	2831.8	2817.9	2831.8	2831.8	2840.9	2836.4	2831.8	2827.1	2827.1
32.5°	2624.5	2642.9	2642.9	2638.4	2647.5	2647.5	2652.1	2642.9	2638.4	2642.9	2647.5
35°	2408.1	2417.4	2426.5	2421.9	2426.5	2431.1	2426.5	2431.1	2417.4	2421.9	2421.9
37.5°	2173.2	2182.5	2182.5	2168.6	2177.9	2177.9	2168.6	2168.6	2159.5	2168.6	2150.2
40°	1924.6	1915.4	1920.0	1910.9	1901.6	1901.6	1897.0	1878.6	1869.4	1874.0	1878.6
42.5°	1680.6	1680.6	1666.8	1643.8	1620.8	1620.8	1607.0	1597.8	1579.2	1588.5	1583.9
45°	1473.4	1450.4	1432.0	1395.1	1381.4	1372.1	1349.1	1326.1	1316.9	1321.5	1316.9
47.5°	1275.4	1257.0	1211.0	1160.2	1146.5	1132.6	1105.0	1077.4	1068.2	1059.0	1059.0
50°	1109.6	1077.4	1026.8	971.5	948.5	925.5	888.6	861.0	842.6	847.2	847.2
52.5°	957.8	920.9	861.0	792.0	764.4	736.8	704.5	672.2	658.4	653.9	653.9
55°	824.2	782.8	722.9	644.6	621.6	589.4	547.9	511.1	492.6	488.1	497.2
57.5°	704.5	667.6	598.6	520.2	492.6	460.5	419.0	386.8	363.8	359.1	363.8
60°	607.8	557.1	497.2	423.6	386.8	359.1	313.1	285.5	262.5	253.2	257.9
62.5°	511.1	465.0	405.2	331.5	303.9	276.2	234.9	202.6	184.1	179.6	184.1
65°	437.4	391.4	336.1	271.6	244.0	216.4	179.6	147.4	133.5	128.9	133.5
67.5°	363.8	322.2	276.2	216.4	193.4	170.4	133.5	110.5	92.1	87.5	92.1
70°	294.6	257.9	211.8	170.4	147.4	128.9	101.2	78.2	64.5	59.9	64.5
72.5°	221.0	193.4	161.1	124.4	110.5	96.8	73.6	55.2	46.0	41.5	46.0
75°	161.1	138.1	115.1	87.5	78.2	69.1	50.6	36.9	32.2	27.6	32.2
77.5°	110.5	96.8	78.2	59.9	50.6	46.0	32.2	27.6	23.0	18.4	18.4
80°	73.6	64.5	50.6	41.5	36.9	32.2	23.0	18.4	13.9	13.9	13.9
82.5°	46.0	36.9	32.2	23.0	18.4	18.4	13.9	9.2	9.2	9.2	9.2
85°	27.6	23.0	18.4	13.9	9.2	9.2	4.6	4.6	4.6	4.6	4.6
87.5°	13.9	9.2	9.2	4.6	4.6	4.6	4.6	4.6	0.0	0.0	4.6
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4
2.5°	3255.4	3246.1	3246.1	3250.8	3255.4	3259.9	3250.8	3246.1	3246.1	3259.9	3250.8
5°	3255.4	3250.8	3250.8	3250.8	3259.9	3264.5	3255.4	3250.8	3255.4	3269.1	3264.5
7.5°	3269.1	3259.9	3264.5	3264.5	3269.1	3278.4	3269.1	3264.5	3269.1	3283.0	3273.8
10°	3278.4	3269.1	3273.8	3269.1	3283.0	3287.5	3278.4	3273.8	3278.4	3296.8	3292.1
12.5°	3283.0	3278.4	3278.4	3273.8	3287.5	3292.1	3283.0	3278.4	3283.0	3296.8	3292.1
15°	3273.8	3269.1	3269.1	3269.1	3278.4	3287.5	3273.8	3269.1	3269.1	3283.0	3278.4
17.5°	3255.4	3246.1	3246.1	3246.1	3250.8	3255.4	3241.5	3236.9	3232.2	3246.1	3241.5
20°	3223.1	3213.9	3204.6	3204.6	3209.2	3209.2	3200.1	3186.2	3186.2	3190.9	3181.6
22.5°	3163.2	3158.6	3149.4	3144.8	3154.0	3149.4	3131.0	3117.1	3112.6	3117.1	3108.0
25°	3080.4	3071.1	3066.5	3061.9	3066.5	3061.9	3043.5	3025.1	3025.1	3025.1	3011.2
27.5°	2965.2	2956.0	2951.4	2951.4	2956.0	2946.9	2928.4	2910.0	2900.8	2900.8	2887.0
30°	2817.9	2817.9	2813.2	2808.8	2804.1	2804.1	2776.5	2758.0	2748.9	2753.4	2744.2
32.5°	2638.4	2633.8	2629.1	2615.2	2619.9	2615.2	2592.2	2578.5	2564.6	2555.5	2550.9
35°	2408.1	2408.1	2403.5	2403.5	2403.5	2398.9	2375.9	2362.0	2352.9	2348.2	2334.4
37.5°	2154.9	2150.2	2145.6	2145.6	2145.6	2145.6	2131.9	2118.0	2118.0	2113.4	2104.2
40°	1869.4	1874.0	1878.6	1874.0	1887.8	1901.6	1883.2	1874.0	1869.4	1883.2	1864.8
42.5°	1593.1	1588.5	1611.5	1616.1	1616.1	1639.1	1643.8	1648.4	1643.8	1653.0	1653.0
45°	1326.1	1321.5	1344.5	1353.8	1376.8	1404.4	1418.1	1441.1	1450.4	1459.6	1450.4
47.5°	1072.9	1091.2	1109.6	1132.6	1151.1	1197.1	1224.8	1247.8	1257.0	1270.9	1270.9
50°	861.0	879.5	911.6	930.1	953.1	1008.4	1054.4	1086.6	1105.0	1118.9	1114.2
52.5°	663.0	695.2	736.8	755.1	787.4	851.9	902.5	939.2	962.4	976.1	980.8
55°	511.1	538.8	580.1	607.8	640.0	709.1	773.5	815.0	838.0	856.4	865.6
57.5°	377.5	409.8	455.9	478.9	515.8	594.0	649.2	699.9	727.5	750.5	755.1
60°	276.2	308.5	349.9	377.5	414.4	492.6	557.1	603.1	635.4	653.9	663.0
62.5°	198.0	230.2	271.6	299.2	331.5	400.6	465.0	511.1	543.4	566.4	580.1
65°	142.8	175.0	216.4	239.4	267.0	331.5	391.4	437.4	469.6	497.2	506.5
67.5°	105.9	128.9	165.8	188.8	216.4	267.0	317.8	359.1	391.4	414.4	423.6
70°	78.2	96.8	128.9	142.8	161.1	207.2	248.6	285.5	313.1	331.5	340.8
72.5°	55.2	69.1	92.1	105.9	119.8	156.5	188.8	216.4	234.9	253.2	262.5
75°	36.9	46.0	64.5	73.6	82.9	110.5	133.5	156.5	170.4	184.1	188.8
77.5°	23.0	32.2	46.0	50.6	59.9	73.6	92.1	105.9	115.1	124.4	133.5
80°	13.9	18.4	27.6	32.2	36.9	50.6	59.9	69.1	78.2	87.5	92.1
82.5°	9.2	13.9	18.4	18.4	23.0	27.6	36.9	46.0	50.6	55.2	59.9
85°	4.6	4.6	9.2	9.2	13.9	13.9	18.4	23.0	27.6	32.2	36.9
87.5°	4.6	4.6	4.6	4.6	9.2	9.2	13.9	13.9	13.9	18.4	18.4
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: P252716

CATALOG NUMBER: LE\_6B50D010R EC6B30508040 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4	3255.4
2.5°	3241.5	3255.4	3241.5	3250.8	3246.1	3246.1	3241.5	3246.1
5°	3255.4	3273.8	3255.4	3269.1	3259.9	3259.9	3259.9	3264.5
7.5°	3269.1	3287.5	3273.8	3287.5	3283.0	3278.4	3278.4	3287.5
10°	3283.0	3296.8	3287.5	3301.4	3296.8	3292.1	3292.1	3301.4
12.5°	3283.0	3301.4	3292.1	3306.0	3301.4	3296.8	3296.8	3301.4
15°	3269.1	3292.1	3278.4	3292.1	3287.5	3283.0	3283.0	3292.1
17.5°	3227.8	3246.1	3236.9	3246.1	3246.1	3241.5	3246.1	3250.8
20°	3172.4	3186.2	3177.0	3186.2	3186.2	3177.0	3181.6	3186.2
22.5°	3094.1	3108.0	3098.8	3108.0	3103.4	3098.8	3098.8	3094.1
25°	2997.5	3015.9	3002.1	3011.2	3002.1	2992.9	2992.9	2997.5
27.5°	2877.8	2891.6	2873.1	2882.4	2873.1	2864.0	2864.0	2859.4
30°	2721.2	2725.8	2712.0	2721.2	2712.0	2707.4	2698.1	2698.1
32.5°	2532.4	2537.0	2523.2	2523.2	2514.0	2514.0	2495.6	2509.4
35°	2311.4	2316.0	2311.4	2306.8	2293.0	2288.4	2283.8	2283.8
37.5°	2081.2	2081.2	2067.4	2062.8	2053.6	2044.4	2049.0	2035.1
40°	1846.4	1841.8	1828.0	1832.5	1828.0	1814.1	1809.5	1804.9
42.5°	1625.4	1625.4	1611.5	1616.1	1607.0	1602.4	1588.5	1593.1
45°	1432.0	1432.0	1418.1	1418.1	1413.5	1399.8	1404.4	1395.1
47.5°	1257.0	1257.0	1252.4	1252.4	1238.6	1234.0	1234.0	1234.0
50°	1105.0	1105.0	1105.0	1105.0	1100.5	1095.9	1091.2	1095.9
52.5°	976.1	985.4	980.8	980.8	976.1	971.5	966.9	966.9
55°	861.0	865.6	865.6	870.2	865.6	861.0	865.6	861.0
57.5°	759.8	768.9	768.9	768.9	768.9	768.9	764.4	759.8
60°	672.2	676.9	676.9	681.5	681.5	681.5	676.9	676.9
62.5°	584.8	594.0	598.6	598.6	603.1	598.6	598.6	598.6
65°	515.8	524.9	529.5	524.9	529.5	529.5	524.9	524.9
67.5°	432.9	442.0	442.0	442.0	442.0	446.6	442.0	442.0
70°	349.9	359.1	354.5	359.1	359.1	359.1	359.1	359.1
72.5°	267.0	271.6	276.2	276.2	280.9	276.2	276.2	276.2
75°	193.4	202.6	202.6	202.6	202.6	207.2	207.2	207.2
77.5°	138.1	142.8	142.8	147.4	147.4	147.4	147.4	152.0
80°	96.8	96.8	101.2	101.2	105.9	105.9	105.9	105.9
82.5°	64.5	69.1	69.1	69.1	69.1	69.1	69.1	69.1
85°	36.9	41.5	41.5	41.5	41.5	46.0	46.0	46.0
87.5°	23.0	23.0	23.0	23.0	23.0	23.0	18.4	18.4
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)