

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: P252717

Luminaire Tested: **LE\_6B50D010R EC6B30508050 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252717  
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 EC6B30508050 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE 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: 6457.5 lumens  
Efficiency: N/A  
Efficacy: 109.8 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

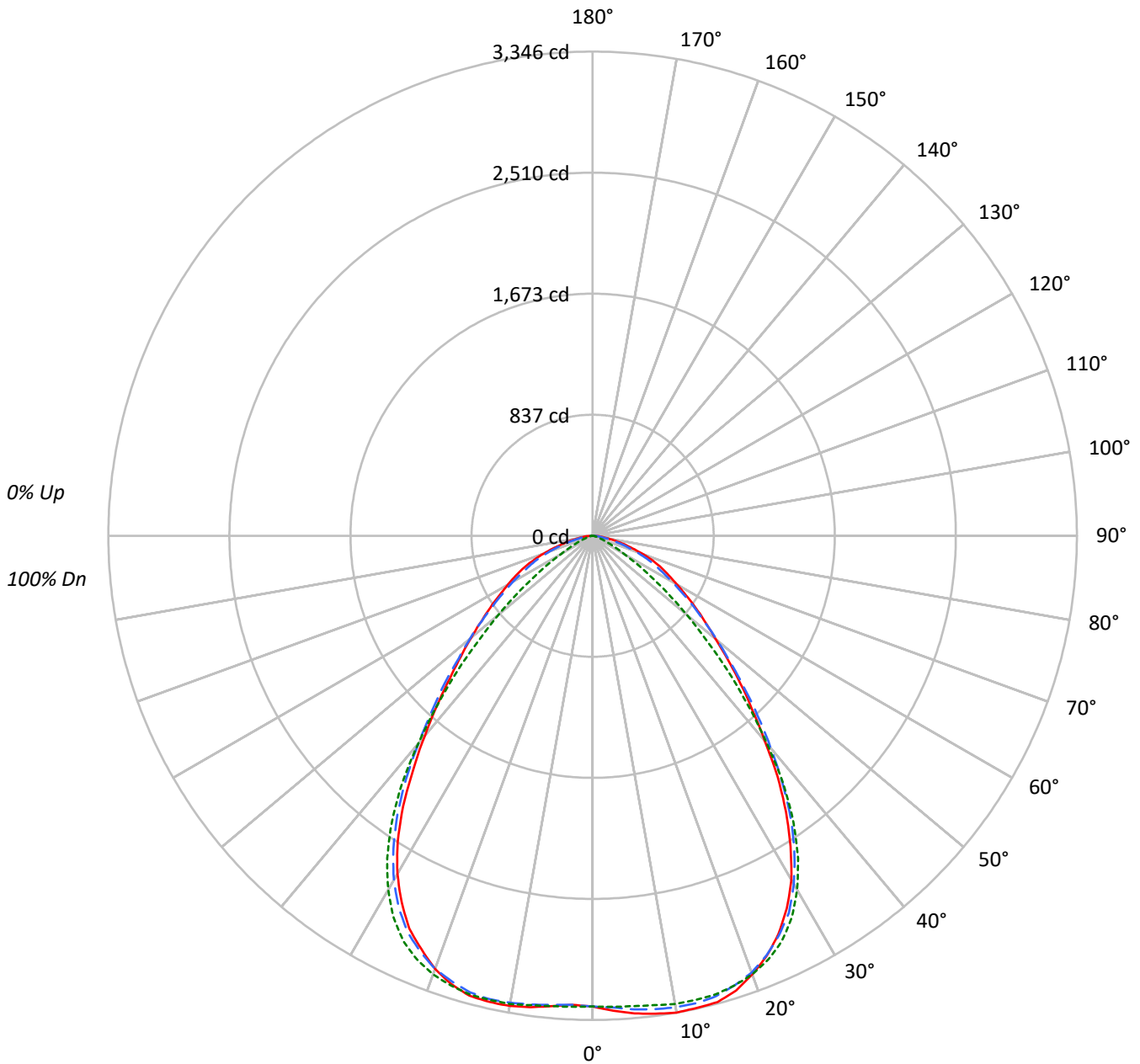
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252717

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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°	212254	212254	212254
5°	216981	213667	213667
10°	221630	217661	218582
15°	225334	221606	222227
20°	223967	223967	221085
25°	218626	222607	215653
30°	206956	212854	203144
35°	185451	192779	181788
40°	157548	159507	153630
45°	133322	121863	128653
50°	112560	85947	111159
55°	98934	55484	97876
60°	87670	33025	88271
65°	80984	19899	80984
70°	70215	11426	68460
75°	55682	6957	52204
80°	41515	5185	39787
85°	37877	3443	34433



TEST NUMBER: P252717

CATALOG NUMBER: LE\_6B50D010R EC6B30508050 6LBDW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.2	4.9
10°-20°	927.0	14.4
20°-30°	1394.2	21.6
30°-40°	1465.9	22.7
40°-50°	1095.1	17.0
50°-60°	681.7	10.6
60°-70°	387.7	6.0
70°-80°	159.7	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°	2634.5	40.8
0°-40°	4100.3	63.5
0°-60°	5877.1	91.0
0°-90°	6457.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6457.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3253	3253	3253	3253	3253	
5°	3313	3286	3263	3253	3263	317
15°	3336	3295	3281	3267	3290	938
25°	3037	3046	3092	3023	2996	1390
35°	2328	2388	2420	2352	2282	1445
45°	1445	1477	1321	1450	1394	1120
55°	870	851	488	838	860	782
65°	525	469	129	469	525	517
75°	221	175	28	170	207	240
85°	51	32	5	28	46	56
90°	0	0	0	0	0	



TEST NUMBER: P252717

CATALOG NUMBER: LE\_6B50D010R EC6B30508050 6LBDW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4
2.5°	3285.6	3281.0	3285.6	3276.4	3271.9	3271.9	3276.4	3267.2	3262.6	3267.2	3262.6
5°	3313.2	3304.0	3308.6	3304.0	3294.9	3294.9	3299.5	3285.6	3285.6	3290.2	3285.6
7.5°	3331.6	3331.6	3331.6	3322.5	3317.9	3313.2	3322.5	3308.6	3304.0	3304.0	3299.5
10°	3345.5	3340.9	3345.5	3336.2	3327.0	3322.5	3331.6	3322.5	3313.2	3322.5	3308.6
12.5°	3340.9	3340.9	3340.9	3336.2	3327.0	3322.5	3331.6	3317.9	3313.2	3317.9	3308.6
15°	3336.2	3322.5	3327.0	3322.5	3308.6	3308.6	3313.2	3299.5	3290.2	3304.0	3294.9
17.5°	3294.9	3285.6	3290.2	3281.0	3271.9	3267.2	3271.9	3267.2	3258.0	3267.2	3258.0
20°	3225.9	3225.9	3230.4	3221.2	3212.0	3207.4	3216.6	3207.4	3198.2	3212.0	3212.0
22.5°	3143.0	3143.0	3143.0	3138.4	3133.8	3133.8	3133.8	3129.1	3124.6	3133.8	3138.4
25°	3037.1	3032.5	3037.1	3041.8	3037.1	3032.5	3037.1	3037.1	3028.0	3046.4	3046.4
27.5°	2903.8	2903.8	2912.9	2908.2	2908.2	2903.8	2912.9	2912.9	2908.2	2922.1	2935.9
30°	2747.2	2738.0	2747.2	2747.2	2751.9	2751.9	2756.5	2756.5	2756.5	2770.2	2779.5
32.5°	2544.8	2549.4	2563.1	2558.6	2554.0	2567.8	2567.8	2577.0	2581.6	2590.8	2595.4
35°	2328.5	2333.1	2333.1	2337.6	2346.9	2337.6	2360.8	2356.1	2360.8	2379.1	2388.2
37.5°	2098.4	2084.6	2107.6	2098.4	2103.0	2103.0	2112.2	2116.8	2130.6	2153.6	2153.6
40°	1849.9	1854.5	1863.8	1868.2	1872.9	1872.9	1872.9	1886.8	1891.4	1918.9	1914.4
42.5°	1633.6	1633.6	1642.9	1647.4	1647.4	1647.4	1647.4	1661.2	1670.4	1679.6	1688.9
45°	1445.0	1431.1	1440.4	1440.4	1449.5	1445.0	1454.1	1463.4	1468.0	1481.8	1477.1
47.5°	1265.5	1260.9	1265.5	1270.1	1265.5	1270.1	1274.6	1279.2	1283.9	1283.9	1283.9
50°	1109.0	1109.0	1113.6	1118.2	1118.2	1118.2	1118.2	1122.9	1122.9	1132.0	1122.9
52.5°	980.1	984.8	984.8	980.1	984.8	984.8	989.4	989.4	984.8	984.8	971.0
55°	869.8	865.1	869.8	865.1	869.8	869.8	865.1	865.1	860.5	855.9	851.4
57.5°	763.9	763.9	763.9	763.9	759.2	763.9	759.2	754.6	754.6	745.5	731.6
60°	671.9	671.9	671.9	671.9	671.9	667.2	671.9	667.2	658.0	648.9	630.5
62.5°	593.6	589.0	593.6	589.0	589.0	584.4	584.4	579.9	570.6	561.4	543.0
65°	524.6	529.2	524.6	524.6	520.0	515.4	515.4	510.8	497.0	487.8	469.4
67.5°	451.0	446.4	446.4	446.4	441.8	441.8	441.8	432.6	423.4	409.5	391.1
70°	368.1	368.1	368.1	363.5	363.5	358.9	358.9	354.4	345.1	335.9	312.9
72.5°	289.9	289.9	289.9	280.8	285.2	280.8	280.8	271.5	266.9	253.1	239.2
75°	220.9	220.9	216.2	216.2	211.6	207.1	207.1	202.5	197.9	188.6	174.9
77.5°	161.0	161.0	161.0	156.5	151.9	147.2	147.2	142.6	138.0	133.5	124.2
80°	110.5	110.5	110.5	110.5	105.9	101.2	101.2	96.6	96.6	92.0	82.9
82.5°	73.6	73.6	73.6	73.6	69.0	69.0	69.0	64.4	59.9	59.9	50.6
85°	50.6	50.6	46.0	46.0	46.0	46.0	41.4	41.4	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	13.8
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: P252717

CATALOG NUMBER: LE\_6B50D010R EC6B30508050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4
2.5°	3276.4	3276.4	3271.9	3258.0	3262.6	3258.0	3262.6	3258.0	3244.2	3258.0	3244.2
5°	3294.9	3299.5	3290.2	3271.9	3276.4	3271.9	3271.9	3267.2	3253.4	3262.6	3253.4
7.5°	3313.2	3308.6	3304.0	3285.6	3290.2	3285.6	3285.6	3276.4	3262.6	3271.9	3258.0
10°	3322.5	3322.5	3313.2	3294.9	3294.9	3290.2	3294.9	3290.2	3271.9	3285.6	3276.4
12.5°	3322.5	3317.9	3317.9	3294.9	3299.5	3294.9	3299.5	3290.2	3276.4	3285.6	3281.0
15°	3308.6	3308.6	3304.0	3281.0	3285.6	3285.6	3290.2	3281.0	3267.2	3281.0	3271.9
17.5°	3281.0	3281.0	3276.4	3258.0	3267.2	3267.2	3271.9	3262.6	3248.9	3258.0	3258.0
20°	3225.9	3230.4	3230.4	3216.6	3225.9	3225.9	3230.4	3225.9	3221.2	3225.9	3216.6
22.5°	3161.4	3170.6	3170.6	3156.8	3166.0	3166.0	3179.8	3175.2	3166.0	3170.6	3166.0
25°	3064.8	3074.0	3083.1	3074.0	3083.1	3083.1	3097.0	3092.4	3083.1	3092.4	3078.5
27.5°	2954.4	2958.9	2968.1	2958.9	2972.8	2968.1	2981.9	2977.4	2963.5	2977.4	2972.8
30°	2797.9	2816.2	2830.1	2816.2	2830.1	2830.1	2839.2	2834.6	2830.1	2825.5	2825.5
32.5°	2623.0	2641.4	2641.4	2636.8	2646.0	2646.0	2650.6	2641.4	2636.8	2641.4	2646.0
35°	2406.8	2415.9	2425.1	2420.5	2425.1	2429.8	2425.1	2429.8	2415.9	2420.5	2420.5
37.5°	2172.0	2181.2	2181.2	2167.4	2176.6	2176.6	2167.4	2167.4	2158.2	2167.4	2149.0
40°	1923.5	1914.4	1918.9	1909.8	1900.5	1900.5	1895.9	1877.5	1868.2	1872.9	1877.5
42.5°	1679.6	1679.6	1665.9	1642.9	1619.8	1619.8	1606.0	1596.8	1578.4	1587.6	1583.0
45°	1472.5	1449.5	1431.1	1394.4	1380.5	1371.4	1348.2	1325.2	1316.1	1320.8	1316.1
47.5°	1274.6	1256.2	1210.2	1159.6	1145.9	1132.0	1104.4	1076.8	1067.6	1058.4	1058.4
50°	1109.0	1076.8	1026.1	971.0	948.0	925.0	888.1	860.5	842.1	846.8	846.8
52.5°	957.1	920.4	860.5	791.5	763.9	736.2	704.1	671.9	658.0	653.5	653.5
55°	823.8	782.2	722.5	644.2	621.2	589.0	547.6	510.8	492.4	487.8	497.0
57.5°	704.1	667.2	598.2	520.0	492.4	460.1	418.8	386.5	363.5	358.9	363.5
60°	607.4	556.8	497.0	423.4	386.5	358.9	312.9	285.2	262.2	253.1	257.8
62.5°	510.8	464.8	405.0	331.4	303.8	276.1	234.8	202.5	184.1	179.5	184.1
65°	437.1	391.1	335.9	271.5	243.9	216.2	179.5	147.2	133.5	128.9	133.5
67.5°	363.5	322.1	276.1	216.2	193.2	170.2	133.5	110.5	92.0	87.4	92.0
70°	294.5	257.8	211.6	170.2	147.2	128.9	101.2	78.2	64.4	59.9	64.4
72.5°	220.9	193.2	161.0	124.2	110.5	96.6	73.6	55.2	46.0	41.4	46.0
75°	161.0	138.0	115.0	87.4	78.2	69.0	50.6	36.9	32.2	27.6	32.2
77.5°	110.5	96.6	78.2	59.9	50.6	46.0	32.2	27.6	23.0	18.4	18.4
80°	73.6	64.4	50.6	41.4	36.9	32.2	23.0	18.4	13.8	13.8	13.8
82.5°	46.0	36.9	32.2	23.0	18.4	18.4	13.8	9.2	9.2	9.2	9.2
85°	27.6	23.0	18.4	13.8	9.2	9.2	4.6	4.6	4.6	4.6	4.6
87.5°	13.8	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



TEST NUMBER: P252717

CATALOG NUMBER: LE\_6B50D010R EC6B30508050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4
2.5°	3253.4	3244.2	3244.2	3248.9	3253.4	3258.0	3248.9	3244.2	3244.2	3258.0	3248.9
5°	3253.4	3248.9	3248.9	3248.9	3258.0	3262.6	3253.4	3248.9	3253.4	3267.2	3262.6
7.5°	3267.2	3258.0	3262.6	3262.6	3267.2	3276.4	3267.2	3262.6	3267.2	3281.0	3271.9
10°	3276.4	3267.2	3271.9	3267.2	3281.0	3285.6	3276.4	3271.9	3276.4	3294.9	3290.2
12.5°	3281.0	3276.4	3276.4	3271.9	3285.6	3290.2	3281.0	3276.4	3281.0	3294.9	3290.2
15°	3271.9	3267.2	3267.2	3267.2	3276.4	3285.6	3271.9	3267.2	3267.2	3281.0	3276.4
17.5°	3253.4	3244.2	3244.2	3244.2	3248.9	3253.4	3239.6	3235.0	3230.4	3244.2	3239.6
20°	3221.2	3212.0	3202.8	3202.8	3207.4	3207.4	3198.2	3184.4	3184.4	3189.0	3179.8
22.5°	3161.4	3156.8	3147.6	3143.0	3152.2	3147.6	3129.1	3115.4	3110.8	3115.4	3106.1
25°	3078.5	3069.4	3064.8	3060.1	3064.8	3060.1	3041.8	3023.4	3023.4	3023.4	3009.5
27.5°	2963.5	2954.4	2949.8	2949.8	2954.4	2945.1	2926.8	2908.2	2899.1	2899.1	2885.2
30°	2816.2	2816.2	2811.6	2807.0	2802.5	2802.5	2774.9	2756.5	2747.2	2751.9	2742.6
32.5°	2636.8	2632.2	2627.6	2613.8	2618.4	2613.8	2590.8	2577.0	2563.1	2554.0	2549.4
35°	2406.8	2406.8	2402.1	2402.1	2402.1	2397.5	2374.5	2360.8	2351.5	2346.9	2333.1
37.5°	2153.6	2149.0	2144.4	2144.4	2144.4	2144.4	2130.6	2116.8	2116.8	2112.2	2103.0
40°	1868.2	1872.9	1877.5	1872.9	1886.8	1900.5	1882.1	1872.9	1868.2	1882.1	1863.8
42.5°	1592.2	1587.6	1610.6	1615.2	1615.2	1638.2	1642.9	1647.4	1642.9	1652.0	1652.0
45°	1325.2	1320.8	1343.8	1352.9	1375.9	1403.5	1417.4	1440.4	1449.5	1458.8	1449.5
47.5°	1072.2	1090.6	1109.0	1132.0	1150.4	1196.5	1224.0	1247.1	1256.2	1270.1	1270.1
50°	860.5	878.9	911.1	929.5	952.5	1007.8	1053.8	1086.0	1104.4	1118.2	1113.6
52.5°	662.6	694.9	736.2	754.6	786.9	851.4	902.0	938.8	961.8	975.6	980.1
55°	510.8	538.4	579.9	607.4	639.6	708.6	773.1	814.5	837.5	855.9	865.1
57.5°	377.4	409.5	455.6	478.6	515.4	593.6	648.9	699.5	727.1	750.1	754.6
60°	276.1	308.4	349.8	377.4	414.1	492.4	556.8	602.9	635.0	653.5	662.6
62.5°	197.9	230.1	271.5	299.1	331.4	400.4	464.8	510.8	543.0	566.0	579.9
65°	142.6	174.9	216.2	239.2	266.9	331.4	391.1	437.1	469.4	497.0	506.2
67.5°	105.9	128.9	165.6	188.6	216.2	266.9	317.5	358.9	391.1	414.1	423.4
70°	78.2	96.6	128.9	142.6	161.0	207.1	248.5	285.2	312.9	331.4	340.5
72.5°	55.2	69.0	92.0	105.9	119.6	156.5	188.6	216.2	234.8	253.1	262.2
75°	36.9	46.0	64.4	73.6	82.9	110.5	133.5	156.5	170.2	184.1	188.6
77.5°	23.0	32.2	46.0	50.6	59.9	73.6	92.0	105.9	115.0	124.2	133.5
80°	13.8	18.4	27.6	32.2	36.9	50.6	59.9	69.0	78.2	87.4	92.0
82.5°	9.2	13.8	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	13.8	13.8	18.4	23.0	27.6	32.2	36.9
87.5°	4.6	4.6	4.6	4.6	9.2	9.2	13.8	13.8	13.8	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: P252717

CATALOG NUMBER: LE\_6B50D010R EC6B30508050 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4	3253.4
2.5°	3239.6	3253.4	3239.6	3248.9	3244.2	3244.2	3239.6	3244.2
5°	3253.4	3271.9	3253.4	3267.2	3258.0	3258.0	3258.0	3262.6
7.5°	3267.2	3285.6	3271.9	3285.6	3281.0	3276.4	3276.4	3285.6
10°	3281.0	3294.9	3285.6	3299.5	3294.9	3290.2	3290.2	3299.5
12.5°	3281.0	3299.5	3290.2	3304.0	3299.5	3294.9	3294.9	3299.5
15°	3267.2	3290.2	3276.4	3290.2	3285.6	3281.0	3281.0	3290.2
17.5°	3225.9	3244.2	3235.0	3244.2	3244.2	3239.6	3244.2	3248.9
20°	3170.6	3184.4	3175.2	3184.4	3184.4	3175.2	3179.8	3184.4
22.5°	3092.4	3106.1	3097.0	3106.1	3101.6	3097.0	3097.0	3092.4
25°	2995.8	3014.1	3000.4	3009.5	3000.4	2991.1	2991.1	2995.8
27.5°	2876.1	2889.9	2871.5	2880.6	2871.5	2862.2	2862.2	2857.6
30°	2719.6	2724.2	2710.4	2719.6	2710.4	2705.9	2696.6	2696.6
32.5°	2531.0	2535.5	2521.8	2521.8	2512.5	2512.5	2494.1	2508.0
35°	2310.1	2314.6	2310.1	2305.5	2291.6	2287.0	2282.5	2282.5
37.5°	2080.0	2080.0	2066.1	2061.6	2052.4	2043.1	2047.8	2034.0
40°	1845.2	1840.8	1826.9	1831.5	1826.9	1813.1	1808.5	1803.9
42.5°	1624.4	1624.4	1610.6	1615.2	1606.0	1601.4	1587.6	1592.2
45°	1431.1	1431.1	1417.4	1417.4	1412.8	1398.9	1403.5	1394.4
47.5°	1256.2	1256.2	1251.6	1251.6	1237.9	1233.2	1233.2	1233.2
50°	1104.4	1104.4	1104.4	1104.4	1099.9	1095.2	1090.6	1095.2
52.5°	975.6	984.8	980.1	980.1	975.6	971.0	966.4	966.4
55°	860.5	865.1	865.1	869.8	865.1	860.5	865.1	860.5
57.5°	759.2	768.5	768.5	768.5	768.5	768.5	763.9	759.2
60°	671.9	676.5	676.5	681.0	681.0	681.0	676.5	676.5
62.5°	584.4	593.6	598.2	598.2	602.9	598.2	598.2	598.2
65°	515.4	524.6	529.2	524.6	529.2	529.2	524.6	524.6
67.5°	432.6	441.8	441.8	441.8	441.8	446.4	441.8	441.8
70°	349.8	358.9	354.4	358.9	358.9	358.9	358.9	358.9
72.5°	266.9	271.5	276.1	276.1	280.8	276.1	276.1	276.1
75°	193.2	202.5	202.5	202.5	202.5	207.1	207.1	207.1
77.5°	138.0	142.6	142.6	147.2	147.2	147.2	147.2	151.9
80°	96.6	96.6	101.2	101.2	105.9	105.9	105.9	105.9
82.5°	64.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0
85°	36.9	41.4	41.4	41.4	41.4	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)