

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: P252623

Luminaire Tested: **LE\_6B60D010R EC6B60708030 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60708030 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7441.3 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

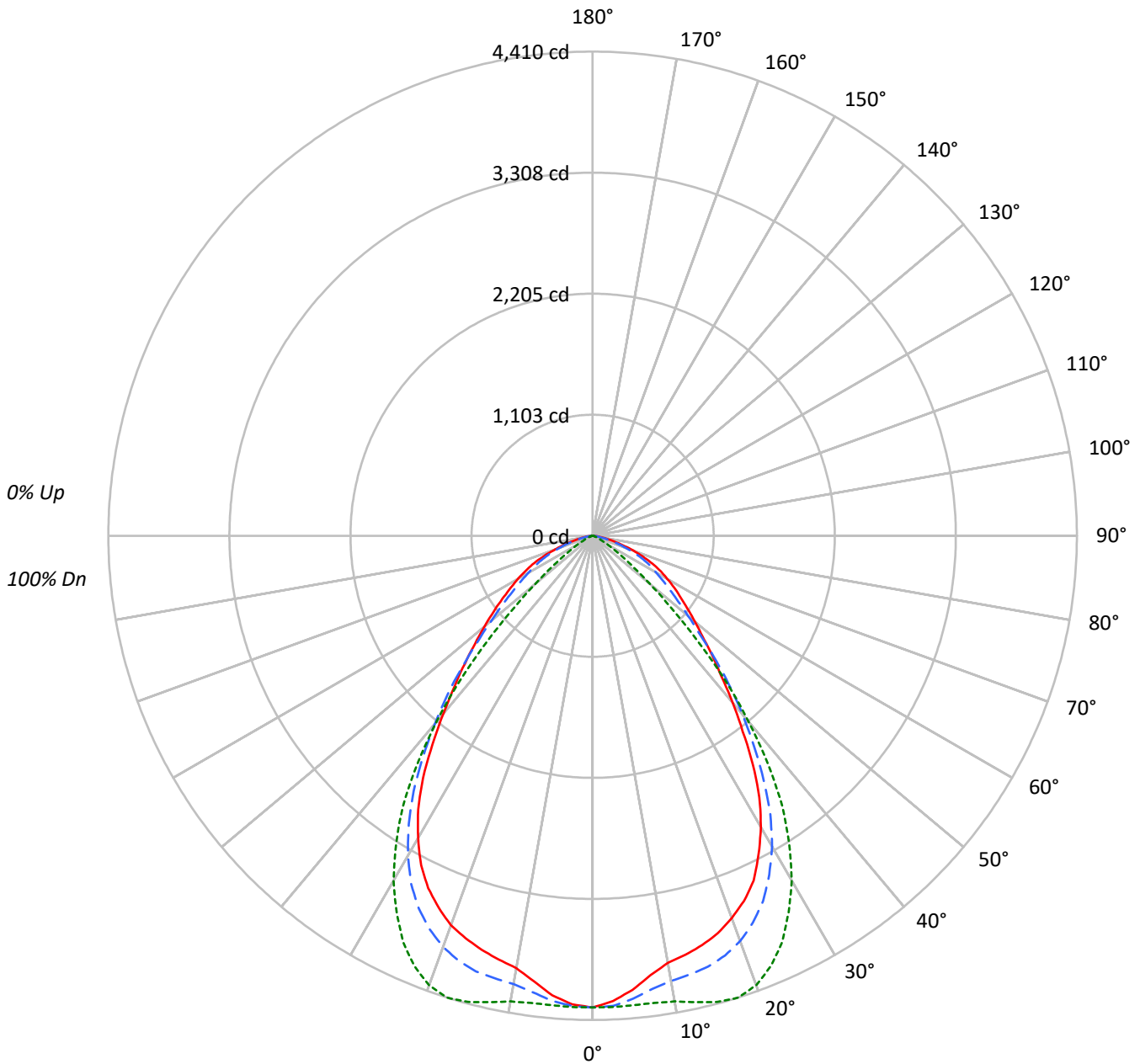
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°	90°	180°
0°	280287	280287	280287
5°	271920	281030	275182
10°	261577	285267	264869
15°	260652	296881	263677
20°	257236	302413	262075
25°	249558	293886	254914
30°	230859	273144	239470
35°	202535	240111	214402
40°	168781	188224	179776
45°	142050	124188	151682
50°	123003	68053	130565
55°	111298	36159	114108
60°	102402	18789	102402
65°	92778	9972	90478
70°	74851	5684	69166
75°	51322	3756	47591
80°	33588	1879	29869
85°	22307	3743	18639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.6	5.4
10°-20°	1158.4	15.6
20°-30°	1711.6	23.0
30°-40°	1728.8	23.2
40°-50°	1191.6	16.0
50°-60°	684.4	9.2
60°-70°	398.3	5.4
70°-80°	145.3	2.0
80°-90°	22.2	0.3
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°	3270.6	44.0
0°-40°	4999.4	67.2
0°-60°	6875.4	92.4
0°-90°	7441.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7441.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4296	4296	4296	4296	4296	
5°	4152	4232	4291	4252	4202	390
15°	3859	4063	4396	4108	3904	1087
25°	3467	3670	4083	3745	3541	1580
35°	2543	2717	3015	2841	2692	1578
45°	1540	1560	1346	1659	1644	1197
55°	978	859	318	894	1003	881
65°	601	507	65	502	586	588
75°	204	164	15	159	189	229
85°	30	15	5	20	25	38
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°	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2
2.5°	4241.6	4246.5	4251.5	4246.5	4251.5	4271.4	4256.5	4266.4	4266.4	4271.4	4286.2
5°	4152.1	4152.1	4162.1	4157.1	4172.0	4191.9	4177.0	4191.9	4196.9	4206.8	4231.6
7.5°	4037.9	4037.9	4042.9	4042.9	4062.8	4082.6	4072.8	4092.6	4112.4	4132.2	4162.1
10°	3948.5	3958.5	3958.5	3963.4	3983.2	4008.1	4003.1	4028.0	4047.9	4077.6	4117.4
12.5°	3908.8	3913.8	3913.8	3923.8	3943.6	3968.4	3963.4	3988.2	4018.1	4052.9	4092.6
15°	3859.1	3869.1	3864.1	3874.0	3893.9	3918.8	3913.8	3938.6	3973.4	4008.1	4062.8
17.5°	3794.6	3799.5	3804.5	3804.5	3824.4	3844.2	3844.2	3869.1	3908.8	3948.5	4008.1
20°	3705.1	3715.1	3715.1	3720.1	3735.0	3764.8	3759.8	3784.6	3824.4	3864.1	3928.6
22.5°	3600.9	3605.9	3605.9	3610.8	3635.6	3650.5	3655.5	3675.4	3710.1	3754.9	3814.4
25°	3466.8	3471.8	3466.8	3481.6	3491.6	3521.4	3511.5	3536.2	3576.0	3610.8	3670.4
27.5°	3273.0	3283.0	3283.0	3288.0	3312.8	3337.6	3337.6	3362.5	3397.2	3422.1	3481.6
30°	3064.5	3079.4	3064.5	3089.2	3099.2	3119.1	3134.0	3148.9	3178.8	3213.5	3268.1
32.5°	2826.0	2821.1	2826.0	2836.0	2865.8	2880.8	2890.6	2905.5	2935.4	2965.1	3009.9
35°	2543.0	2552.9	2557.9	2577.8	2577.8	2602.5	2607.5	2617.5	2662.1	2682.0	2716.8
37.5°	2245.0	2254.9	2259.9	2269.8	2289.6	2299.6	2314.5	2329.4	2359.1	2394.0	2413.9
40°	1981.8	1981.8	1986.6	1996.6	2011.5	2016.5	2031.4	2051.2	2071.1	2100.9	2120.8
42.5°	1733.4	1738.4	1733.4	1743.4	1758.2	1778.1	1773.1	1798.0	1802.9	1822.8	1837.6
45°	1539.6	1539.6	1529.8	1539.6	1539.6	1559.5	1554.6	1564.5	1559.5	1569.5	1559.5
47.5°	1355.9	1360.9	1355.9	1360.9	1360.9	1360.9	1365.9	1355.9	1360.9	1346.0	1316.1
50°	1211.9	1216.9	1206.9	1211.9	1206.9	1202.0	1206.9	1192.0	1187.0	1167.1	1137.4
52.5°	1087.8	1082.8	1077.8	1077.8	1077.8	1072.8	1067.9	1053.0	1038.0	1018.1	983.4
55°	978.5	973.5	968.5	968.5	958.6	953.6	953.6	938.8	923.8	899.0	859.2
57.5°	879.1	874.1	869.1	869.1	864.2	854.2	854.2	839.4	819.5	789.8	755.0
60°	784.8	784.8	784.8	779.8	779.8	769.9	769.9	755.0	735.1	705.2	665.5
62.5°	700.2	695.4	695.4	695.4	695.4	690.4	685.4	675.5	655.6	625.8	591.0
65°	601.0	601.0	601.0	601.0	596.0	596.0	596.0	581.1	571.1	541.4	506.6
67.5°	491.8	491.8	491.8	491.8	486.8	491.8	491.8	481.8	471.9	442.0	412.2
70°	392.4	387.4	382.4	387.4	382.4	382.4	387.4	377.5	372.5	347.6	317.9
72.5°	288.1	293.0	288.1	288.1	288.1	283.1	288.1	283.1	273.1	253.2	233.4
75°	203.6	208.6	208.6	203.6	203.6	203.6	198.6	198.6	188.8	173.9	163.9
77.5°	139.1	139.1	139.1	139.1	134.1	134.1	134.1	129.1	124.1	114.2	104.2
80°	89.4	89.4	89.4	89.4	84.4	84.4	84.4	79.5	79.5	69.5	59.6
82.5°	54.6	54.6	54.6	54.6	54.6	54.6	49.6	49.6	44.8	39.8	34.8
85°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	24.9	24.9	19.9	14.9
87.5°	9.9	9.9	14.9	14.9	14.9	14.9	14.9	14.9	9.9	9.9	9.9
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°	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2
2.5°	4276.4	4281.2	4281.2	4281.2	4296.2	4301.1	4286.2	4271.4	4301.1	4296.2	4306.1
5°	4226.6	4241.6	4251.5	4256.5	4271.4	4281.2	4266.4	4261.4	4286.2	4291.2	4296.2
7.5°	4167.1	4191.9	4216.8	4226.6	4246.5	4256.5	4251.5	4251.5	4281.2	4291.2	4291.2
10°	4127.4	4162.1	4191.9	4216.8	4241.6	4256.5	4256.5	4261.4	4296.2	4306.1	4316.1
12.5°	4117.4	4162.1	4201.9	4236.6	4256.5	4281.2	4286.2	4301.1	4336.0	4350.9	4350.9
15°	4092.6	4152.1	4201.9	4246.5	4276.4	4306.1	4316.1	4345.9	4385.6	4395.5	4405.5
17.5°	4047.9	4107.5	4167.1	4221.8	4261.4	4286.2	4316.1	4345.9	4395.5	4410.5	4415.4
20°	3968.4	4037.9	4097.5	4152.1	4191.9	4226.6	4256.5	4291.2	4336.0	4355.8	4360.8
22.5°	3849.2	3918.8	3978.4	4037.9	4077.6	4107.5	4137.2	4177.0	4221.8	4241.6	4241.6
25°	3705.1	3769.8	3834.2	3879.0	3918.8	3953.5	3968.4	4013.1	4057.8	4082.6	4082.6
27.5°	3521.4	3581.0	3640.6	3690.2	3715.1	3744.9	3769.8	3809.5	3844.2	3864.1	3884.0
30°	3288.0	3347.6	3402.2	3451.9	3481.6	3511.5	3536.2	3566.1	3600.9	3625.8	3630.6
32.5°	3034.6	3084.4	3139.0	3188.6	3218.4	3228.4	3253.2	3283.0	3312.8	3332.6	3337.6
35°	2756.5	2791.2	2826.0	2870.8	2900.5	2900.5	2925.4	2945.2	2970.1	3014.8	3004.9
37.5°	2428.8	2478.4	2503.2	2518.1	2538.0	2557.9	2562.9	2587.6	2617.5	2627.4	2642.2
40°	2120.8	2135.6	2150.6	2150.6	2170.5	2170.5	2170.5	2175.4	2205.2	2210.1	2230.0
42.5°	1812.9	1812.9	1798.0	1783.0	1788.0	1783.0	1758.2	1758.2	1773.1	1793.0	1793.0
45°	1524.8	1490.0	1445.4	1410.5	1385.8	1375.8	1346.0	1346.0	1341.0	1346.0	1365.9
47.5°	1281.4	1221.8	1147.2	1077.8	1053.0	1033.1	988.4	968.5	958.6	963.5	973.5
50°	1077.8	1013.2	928.8	844.4	799.6	774.8	720.1	685.4	680.5	670.5	690.4
52.5°	928.8	849.2	759.9	660.6	615.9	576.1	516.5	486.8	466.9	466.9	471.9
55°	799.6	715.2	615.9	516.5	471.9	442.0	382.4	342.8	322.9	317.9	332.8
57.5°	690.4	610.9	511.6	412.2	367.5	332.8	273.1	238.4	223.5	213.6	218.5
60°	606.0	526.5	427.1	332.8	293.0	253.2	203.6	163.9	144.0	144.0	149.0
62.5°	526.5	452.0	362.6	273.1	238.4	203.6	149.0	114.2	99.4	94.4	99.4
65°	447.0	377.5	303.0	228.5	193.8	163.9	119.2	89.4	69.5	64.6	69.5
67.5°	362.6	307.9	243.4	183.8	154.0	129.1	89.4	64.6	49.6	44.8	49.6
70°	283.1	233.4	183.8	134.1	114.2	94.4	64.6	49.6	34.8	29.8	34.8
72.5°	203.6	168.9	129.1	94.4	79.5	64.6	44.8	34.8	24.9	19.9	24.9
75°	139.1	114.2	84.4	59.6	49.6	44.8	29.8	19.9	14.9	14.9	14.9
77.5°	89.4	69.5	54.6	39.8	29.8	24.9	14.9	9.9	9.9	9.9	9.9
80°	49.6	39.8	29.8	19.9	14.9	14.9	9.9	9.9	5.0	5.0	5.0
82.5°	29.8	19.9	14.9	9.9	9.9	5.0	5.0	5.0	5.0	5.0	5.0
85°	14.9	9.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
87.5°	5.0	5.0	5.0	5.0	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2
2.5°	4286.2	4291.2	4276.4	4296.2	4281.2	4301.1	4301.1	4281.2	4286.2	4276.4	4296.2
5°	4276.4	4276.4	4266.4	4281.2	4261.4	4281.2	4276.4	4241.6	4251.5	4231.6	4251.5
7.5°	4276.4	4266.4	4251.5	4266.4	4241.6	4256.5	4236.6	4201.9	4191.9	4167.1	4167.1
10°	4291.2	4276.4	4256.5	4261.4	4236.6	4241.6	4211.8	4162.1	4147.2	4117.4	4107.5
12.5°	4326.0	4311.1	4281.2	4291.2	4256.5	4256.5	4216.8	4157.1	4127.4	4087.6	4077.6
15°	4375.6	4350.9	4316.1	4321.0	4286.2	4266.4	4216.8	4147.2	4107.5	4052.9	4037.9
17.5°	4385.6	4360.8	4316.1	4316.1	4271.4	4246.5	4186.9	4107.5	4057.8	4003.1	3973.4
20°	4331.0	4306.1	4256.5	4251.5	4211.8	4177.0	4112.4	4033.0	3983.2	3923.8	3898.9
22.5°	4216.8	4186.9	4142.2	4137.2	4097.5	4077.6	4008.1	3928.6	3879.0	3819.4	3799.5
25°	4047.9	4033.0	3988.2	3983.2	3948.5	3923.8	3864.1	3789.6	3744.9	3685.2	3665.4
27.5°	3849.2	3834.2	3789.6	3789.6	3749.9	3735.0	3680.4	3610.8	3576.0	3521.4	3496.6
30°	3610.8	3590.9	3566.1	3561.1	3526.4	3511.5	3461.8	3397.2	3362.5	3317.8	3307.9
32.5°	3327.8	3312.8	3297.9	3292.9	3258.1	3243.2	3208.5	3143.9	3114.1	3074.4	3059.5
35°	2999.9	2990.0	2975.0	2970.1	2955.2	2940.2	2905.5	2855.9	2841.0	2811.1	2796.2
37.5°	2622.4	2632.4	2622.4	2622.4	2607.5	2612.5	2582.8	2552.9	2538.0	2518.1	2508.2
40°	2215.1	2235.0	2249.9	2249.9	2245.0	2264.9	2259.9	2235.0	2230.0	2220.1	2215.1
42.5°	1802.9	1812.9	1842.6	1862.5	1857.5	1907.2	1912.1	1932.0	1947.0	1937.0	1942.0
45°	1370.8	1400.6	1440.4	1460.2	1485.0	1549.6	1584.4	1624.1	1658.9	1678.8	1673.8
47.5°	988.4	1023.1	1067.9	1097.6	1142.4	1221.8	1311.2	1360.9	1410.5	1435.4	1460.2
50°	715.2	750.0	804.6	849.2	879.1	988.4	1082.8	1147.2	1202.0	1236.8	1261.5
52.5°	501.6	541.4	601.0	640.8	685.4	789.8	899.0	973.5	1033.1	1077.8	1102.6
55°	347.6	392.4	447.0	486.8	536.4	645.6	750.0	829.5	894.0	933.8	963.5
57.5°	243.4	283.1	337.8	372.5	422.1	526.5	630.8	710.2	774.8	814.5	849.2
60°	163.9	203.6	258.2	293.0	332.8	437.1	531.5	615.9	675.5	715.2	750.0
62.5°	114.2	149.0	203.6	238.4	273.1	362.6	452.0	526.5	586.1	630.8	660.6
65°	89.4	119.2	163.9	193.8	228.5	303.0	377.5	442.0	501.6	546.4	566.2
67.5°	64.6	94.4	129.1	154.0	178.8	243.4	307.9	357.6	412.2	447.0	471.9
70°	44.8	64.6	94.4	114.2	134.1	183.8	233.4	278.1	317.9	342.8	362.6
72.5°	34.8	44.8	64.6	79.5	94.4	129.1	168.9	203.6	233.4	253.2	273.1
75°	19.9	29.8	44.8	54.6	64.6	89.4	114.2	139.1	158.9	173.9	183.8
77.5°	9.9	14.9	24.9	29.8	39.8	54.6	74.5	89.4	104.2	114.2	124.1
80°	9.9	9.9	14.9	14.9	19.9	29.8	39.8	49.6	59.6	69.5	74.5
82.5°	5.0	5.0	9.9	9.9	9.9	14.9	19.9	29.8	34.8	39.8	44.8
85°	5.0	5.0	5.0	5.0	5.0	9.9	9.9	14.9	19.9	24.9	24.9
87.5°	0.0	0.0	5.0	5.0	5.0	5.0	5.0	9.9	9.9	9.9	14.9
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: P252623

CATALOG NUMBER: LE\_6B60D010R EC6B60708030 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2	4296.2
2.5°	4281.2	4291.2	4286.2	4296.2	4281.2	4276.4	4286.2	4271.4
5°	4226.6	4231.6	4226.6	4226.6	4216.8	4206.8	4216.8	4201.9
7.5°	4142.2	4142.2	4127.4	4127.4	4107.5	4097.5	4097.5	4092.6
10°	4072.8	4057.8	4042.9	4047.9	4018.1	4008.1	4003.1	3998.2
12.5°	4037.9	4028.0	4003.1	4003.1	3973.4	3963.4	3958.5	3953.5
15°	3998.2	3978.4	3958.5	3953.5	3928.6	3918.8	3913.8	3903.9
17.5°	3928.6	3913.8	3888.9	3888.9	3864.1	3859.1	3849.2	3844.2
20°	3854.1	3834.2	3814.4	3814.4	3784.6	3784.6	3769.8	3774.8
22.5°	3749.9	3735.0	3715.1	3715.1	3690.2	3685.2	3670.4	3665.4
25°	3625.8	3605.9	3590.9	3586.0	3566.1	3556.1	3551.2	3541.2
27.5°	3461.8	3446.9	3432.0	3422.1	3397.2	3392.2	3377.4	3382.4
30°	3258.1	3248.2	3243.2	3233.4	3203.5	3193.6	3193.6	3178.8
32.5°	3034.6	3019.8	3009.9	2994.9	2970.1	2965.1	2950.2	2955.2
35°	2761.5	2741.6	2726.8	2731.8	2701.9	2696.9	2687.0	2692.0
37.5°	2478.4	2458.5	2438.6	2433.8	2408.9	2408.9	2394.0	2394.0
40°	2185.4	2165.5	2155.5	2155.5	2125.8	2130.8	2115.9	2110.9
42.5°	1922.1	1902.2	1897.2	1892.4	1877.4	1872.5	1857.5	1862.5
45°	1673.8	1668.9	1668.9	1658.9	1644.0	1639.0	1644.0	1644.0
47.5°	1455.2	1460.2	1455.2	1455.2	1445.4	1455.2	1445.4	1450.2
50°	1271.5	1281.4	1281.4	1281.4	1276.5	1281.4	1281.4	1286.4
52.5°	1117.5	1132.4	1127.5	1132.4	1127.5	1137.4	1132.4	1137.4
55°	983.4	993.4	998.2	1003.2	1003.2	1003.2	1003.2	1003.2
57.5°	859.2	874.1	879.1	884.1	884.1	894.0	884.1	884.1
60°	759.9	774.8	779.8	784.8	784.8	789.8	779.8	784.8
62.5°	670.5	685.4	685.4	690.4	690.4	690.4	680.5	685.4
65°	581.1	586.1	591.0	591.0	586.1	586.1	581.1	586.1
67.5°	481.8	486.8	481.8	481.8	476.8	476.8	466.9	471.9
70°	372.5	372.5	377.5	372.5	367.5	372.5	367.5	362.6
72.5°	278.1	278.1	278.1	273.1	273.1	268.2	273.1	273.1
75°	188.8	188.8	193.8	193.8	193.8	193.8	188.8	188.8
77.5°	124.1	124.1	124.1	124.1	129.1	124.1	124.1	124.1
80°	79.5	79.5	84.4	84.4	79.5	79.5	79.5	79.5
82.5°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
85°	29.8	29.8	29.8	29.8	24.9	24.9	24.9	24.9
87.5°	14.9	14.9	14.9	14.9	14.9	14.9	9.9	9.9
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)