

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: P252626

Luminaire Tested: **LE_6B60D010R EC6B60708050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252626
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 EC6B60708050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7703.7 lumens
Efficiency: N/A
Efficacy: 123.3 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

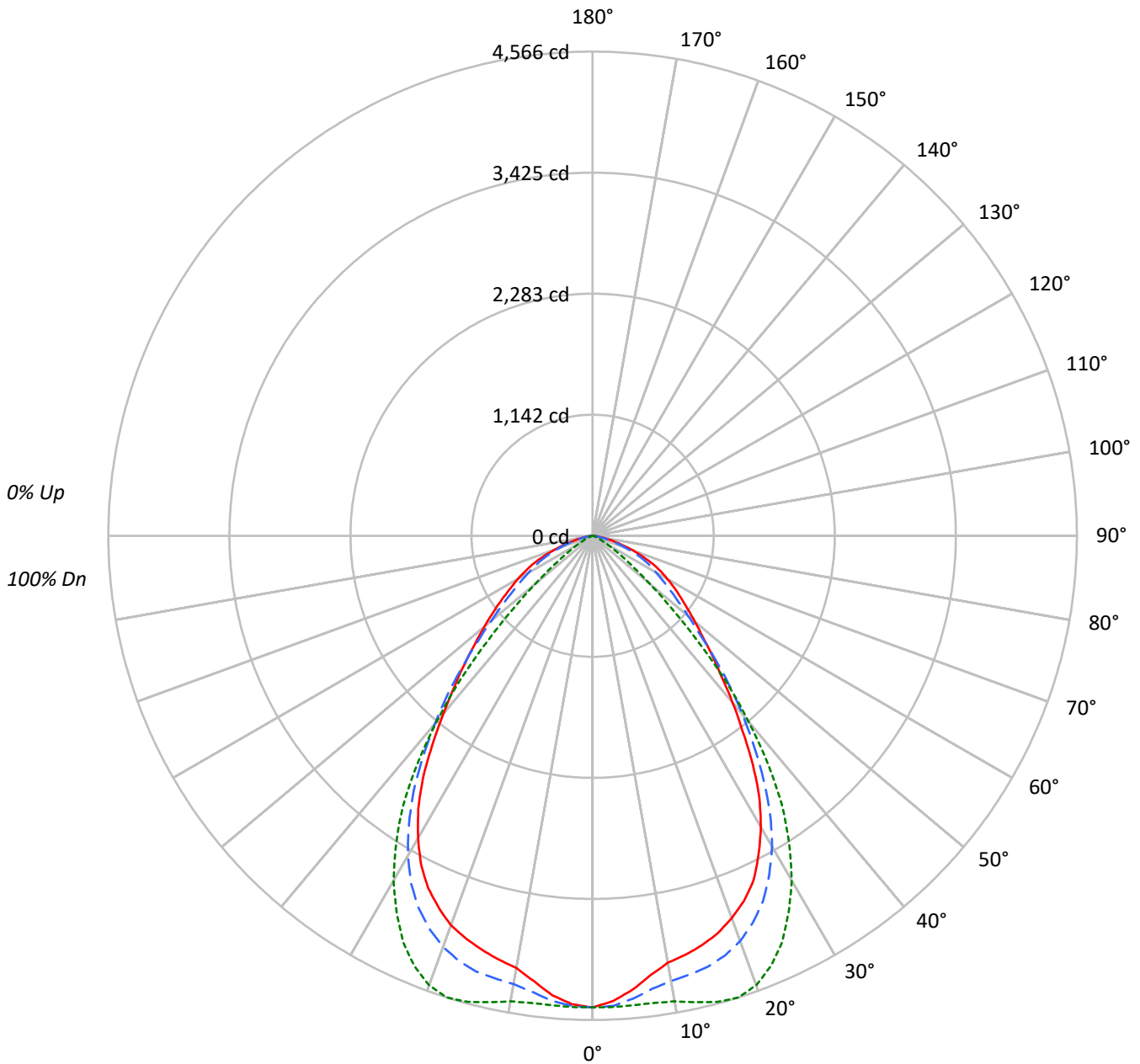
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	290177	290177	290177
5°	281515	290945	284881
10°	270811	295329	274210
15°	269844	307357	272971
20°	266317	313084	271316
25°	258354	304252	263904
30°	239003	282771	247915
35°	209671	248577	221960
40°	174726	194867	186121
45°	147069	128570	157034
50°	127337	70449	135173
55°	115222	37433	118134
60°	106003	19455	106003
65°	96035	10328	93673
70°	77483	5894	71608
75°	53162	3882	49255
80°	34753	1916	30883
85°	23130	3818	19313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.8	5.4
10°-20°	1199.3	15.6
20°-30°	1771.9	23.0
30°-40°	1789.8	23.2
40°-50°	1233.6	16.0
50°-60°	708.5	9.2
60°-70°	412.4	5.4
70°-80°	150.4	2.0
80°-90°	23.0	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°	3386.0	44.0
0°-40°	5175.8	67.2
0°-60°	7117.9	92.4
0°-90°	7703.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7703.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4448	4448	4448	4448	4448	
5°	4299	4381	4443	4402	4350	403
15°	3995	4206	4551	4252	4042	1126
25°	3589	3800	4227	3877	3666	1635
35°	2633	2813	3121	2941	2787	1634
45°	1594	1614	1394	1717	1702	1240
55°	1013	890	329	926	1039	912
65°	622	524	67	519	607	609
75°	211	170	15	164	195	237
85°	31	15	5	21	26	39
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°	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8
2.5°	4391.2	4396.4	4401.5	4396.4	4401.5	4422.0	4406.6	4416.9	4416.9	4422.0	4437.5
5°	4298.6	4298.6	4308.9	4303.8	4319.2	4339.8	4324.4	4339.8	4344.9	4355.2	4380.9
7.5°	4180.4	4180.4	4185.5	4185.5	4206.1	4226.6	4216.4	4237.0	4257.5	4278.1	4308.9
10°	4087.9	4098.1	4098.1	4103.2	4123.9	4149.5	4144.4	4170.1	4190.6	4221.5	4262.6
12.5°	4046.8	4051.9	4051.9	4062.1	4082.6	4108.4	4103.2	4129.0	4159.8	4195.8	4237.0
15°	3995.2	4005.5	4000.4	4010.8	4031.2	4057.0	4051.9	4077.5	4113.5	4149.5	4206.1
17.5°	3928.4	3933.6	3938.8	3938.8	3959.2	3979.9	3979.9	4005.5	4046.8	4087.9	4149.5
20°	3835.9	3846.1	3846.1	3851.2	3866.8	3897.6	3892.4	3918.1	3959.2	4000.4	4067.2
22.5°	3727.9	3733.0	3733.0	3738.1	3763.9	3779.2	3784.5	3805.0	3841.0	3887.2	3949.0
25°	3589.0	3594.2	3589.0	3604.5	3614.8	3645.6	3635.4	3661.0	3702.1	3738.1	3799.9
27.5°	3388.5	3398.8	3398.8	3404.0	3429.6	3455.4	3455.4	3481.1	3517.1	3542.8	3604.5
30°	3172.6	3188.0	3172.6	3198.2	3208.5	3229.1	3244.5	3260.0	3290.9	3326.9	3383.4
32.5°	2925.8	2920.6	2925.8	2936.0	2966.9	2982.2	2992.6	3008.0	3038.9	3069.8	3116.0
35°	2632.6	2643.0	2648.1	2668.6	2668.6	2694.4	2699.5	2709.8	2756.1	2776.6	2812.6
37.5°	2324.1	2334.4	2339.6	2349.9	2370.4	2380.8	2396.1	2411.5	2442.4	2478.4	2499.0
40°	2051.6	2051.6	2056.8	2067.0	2082.5	2087.6	2103.0	2123.6	2144.1	2175.0	2195.6
42.5°	1794.5	1799.6	1794.5	1804.9	1820.2	1840.8	1835.6	1861.4	1866.5	1887.1	1902.5
45°	1594.0	1594.0	1583.8	1594.0	1594.0	1614.5	1609.4	1619.8	1614.5	1624.9	1614.5
47.5°	1403.8	1408.9	1403.8	1408.9	1408.9	1408.9	1414.0	1403.8	1408.9	1393.5	1362.6
50°	1254.6	1259.8	1249.5	1254.6	1249.5	1244.4	1249.5	1234.0	1228.9	1208.4	1177.5
52.5°	1126.1	1121.0	1115.8	1115.8	1115.8	1110.6	1105.5	1090.1	1074.6	1054.1	1018.1
55°	1013.0	1007.9	1002.6	1002.6	992.4	987.2	987.2	971.9	956.4	930.6	889.5
57.5°	910.1	905.0	899.9	899.9	894.8	884.4	884.4	869.0	848.4	817.6	781.6
60°	812.4	812.4	812.4	807.2	807.2	797.0	797.0	781.6	761.0	730.1	689.0
62.5°	725.0	719.9	719.9	719.9	719.9	714.8	709.6	699.2	678.8	647.9	611.9
65°	622.1	622.1	622.1	622.1	617.0	617.0	617.0	601.6	591.4	560.5	524.5
67.5°	509.0	509.0	509.0	509.0	503.9	509.0	509.0	498.8	488.5	457.6	426.8
70°	406.2	401.1	395.9	401.1	395.9	395.9	401.1	390.8	385.6	359.9	329.1
72.5°	298.2	303.4	298.2	298.2	298.2	293.1	298.2	293.1	282.8	262.2	241.6
75°	210.9	216.0	216.0	210.9	210.9	210.9	205.6	205.6	195.4	180.0	169.6
77.5°	144.0	144.0	144.0	144.0	138.9	138.9	138.9	133.8	128.5	118.2	108.0
80°	92.5	92.5	92.5	92.5	87.4	87.4	87.4	82.2	82.2	72.0	61.8
82.5°	56.5	56.5	56.5	56.5	56.5	56.5	51.4	51.4	46.2	41.1	36.0
85°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	25.8	25.8	20.6	15.4
87.5°	10.2	10.2	15.4	15.4	15.4	15.4	15.4	15.4	10.2	10.2	10.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8
2.5°	4427.2	4432.4	4432.4	4432.4	4447.8	4452.9	4437.5	4422.0	4452.9	4447.8	4458.0
5°	4375.8	4391.2	4401.5	4406.6	4422.0	4432.4	4416.9	4411.8	4437.5	4442.6	4447.8
7.5°	4314.1	4339.8	4365.5	4375.8	4396.4	4406.6	4401.5	4401.5	4432.4	4442.6	4442.6
10°	4272.9	4308.9	4339.8	4365.5	4391.2	4406.6	4406.6	4411.8	4447.8	4458.0	4468.4
12.5°	4262.6	4308.9	4350.0	4386.0	4406.6	4432.4	4437.5	4452.9	4488.9	4504.4	4504.4
15°	4237.0	4298.6	4350.0	4396.4	4427.2	4458.0	4468.4	4499.1	4540.4	4550.6	4560.9
17.5°	4190.6	4252.4	4314.1	4370.6	4411.8	4437.5	4468.4	4499.1	4550.6	4566.0	4571.1
20°	4108.4	4180.4	4242.1	4298.6	4339.8	4375.8	4406.6	4442.6	4488.9	4509.5	4514.6
22.5°	3985.0	4057.0	4118.6	4180.4	4221.5	4252.4	4283.2	4324.4	4370.6	4391.2	4391.2
25°	3835.9	3902.8	3969.5	4015.9	4057.0	4093.0	4108.4	4154.6	4201.0	4226.6	4226.6
27.5°	3645.6	3707.4	3769.0	3820.5	3846.1	3877.0	3902.8	3943.9	3979.9	4000.4	4021.0
30°	3404.0	3465.6	3522.2	3573.6	3604.5	3635.4	3661.0	3691.9	3727.9	3753.6	3758.8
32.5°	3141.8	3193.1	3249.8	3301.1	3332.0	3342.2	3368.0	3398.8	3429.6	3450.2	3455.4
35°	2853.8	2889.8	2925.8	2972.0	3002.9	3002.9	3028.6	3049.1	3074.9	3121.1	3110.9
37.5°	2514.4	2565.9	2591.5	2607.0	2627.5	2648.1	2653.2	2679.0	2709.8	2720.1	2735.5
40°	2195.6	2211.0	2226.5	2226.5	2247.0	2247.0	2247.0	2252.1	2283.0	2288.1	2308.8
42.5°	1876.8	1876.8	1861.4	1846.0	1851.1	1846.0	1820.2	1820.2	1835.6	1856.2	1856.2
45°	1578.6	1542.6	1496.2	1460.2	1434.6	1424.2	1393.5	1393.5	1388.4	1393.5	1414.0
47.5°	1326.6	1264.9	1187.8	1115.8	1090.1	1069.5	1023.2	1002.6	992.4	997.5	1007.9
50°	1115.8	1049.0	961.5	874.1	827.9	802.1	745.6	709.6	704.5	694.1	714.8
52.5°	961.5	879.2	786.8	683.9	637.6	596.5	534.8	503.9	483.4	483.4	488.5
55°	827.9	740.4	637.6	534.8	488.5	457.6	395.9	354.8	334.2	329.1	344.5
57.5°	714.8	632.5	529.6	426.8	380.5	344.5	282.8	246.8	231.4	221.1	226.2
60°	627.4	545.0	442.2	344.5	303.4	262.2	210.9	169.6	149.1	149.1	154.2
62.5°	545.0	467.9	375.4	282.8	246.8	210.9	154.2	118.2	102.9	97.8	102.9
65°	462.8	390.8	313.6	236.5	200.5	169.6	123.4	92.5	72.0	66.9	72.0
67.5°	375.4	318.8	252.0	190.2	159.4	133.8	92.5	66.9	51.4	46.2	51.4
70°	293.1	241.6	190.2	138.9	118.2	97.8	66.9	51.4	36.0	30.9	36.0
72.5°	210.9	174.9	133.8	97.8	82.2	66.9	46.2	36.0	25.8	20.6	25.8
75°	144.0	118.2	87.4	61.8	51.4	46.2	30.9	20.6	15.4	15.4	15.4
77.5°	92.5	72.0	56.5	41.1	30.9	25.8	15.4	10.2	10.2	10.2	10.2
80°	51.4	41.1	30.9	20.6	15.4	15.4	10.2	10.2	5.1	5.1	5.1
82.5°	30.9	20.6	15.4	10.2	10.2	5.1	5.1	5.1	5.1	5.1	5.1
85°	15.4	10.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	5.1	5.1	5.1	5.1	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°	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8
2.5°	4437.5	4442.6	4427.2	4447.8	4432.4	4452.9	4452.9	4432.4	4437.5	4427.2	4447.8
5°	4427.2	4427.2	4416.9	4432.4	4411.8	4432.4	4427.2	4391.2	4401.5	4380.9	4401.5
7.5°	4427.2	4416.9	4401.5	4416.9	4391.2	4406.6	4386.0	4350.0	4339.8	4314.1	4314.1
10°	4442.6	4427.2	4406.6	4411.8	4386.0	4391.2	4360.4	4308.9	4293.5	4262.6	4252.4
12.5°	4478.6	4463.1	4432.4	4442.6	4406.6	4406.6	4365.5	4303.8	4272.9	4231.8	4221.5
15°	4530.0	4504.4	4468.4	4473.5	4437.5	4416.9	4365.5	4293.5	4252.4	4195.8	4180.4
17.5°	4540.4	4514.6	4468.4	4468.4	4422.0	4396.4	4334.6	4252.4	4201.0	4144.4	4113.5
20°	4483.8	4458.0	4406.6	4401.5	4360.4	4324.4	4257.5	4175.2	4123.9	4062.1	4036.4
22.5°	4365.5	4334.6	4288.4	4283.2	4242.1	4221.5	4149.5	4067.2	4015.9	3954.1	3933.6
25°	4190.6	4175.2	4129.0	4123.9	4087.9	4062.1	4000.4	3923.2	3877.0	3815.2	3794.8
27.5°	3985.0	3969.5	3923.2	3923.2	3882.1	3866.8	3810.1	3738.1	3702.1	3645.6	3619.9
30°	3738.1	3717.6	3691.9	3686.8	3650.8	3635.4	3583.9	3517.1	3481.1	3434.8	3424.5
32.5°	3445.1	3429.6	3414.2	3409.1	3373.1	3357.6	3321.6	3254.9	3224.0	3182.9	3167.4
35°	3105.8	3095.4	3080.0	3074.9	3059.5	3044.0	3008.0	2956.6	2941.1	2910.4	2894.9
37.5°	2714.9	2725.2	2714.9	2714.9	2699.5	2704.6	2673.8	2643.0	2627.5	2607.0	2596.6
40°	2293.2	2313.9	2329.2	2329.2	2324.1	2344.8	2339.6	2313.9	2308.8	2298.4	2293.2
42.5°	1866.5	1876.8	1907.6	1928.2	1923.1	1974.5	1979.6	2000.2	2015.6	2005.4	2010.5
45°	1419.1	1450.0	1491.1	1511.8	1537.4	1604.2	1640.2	1681.4	1717.4	1738.0	1732.9
47.5°	1023.2	1059.2	1105.5	1136.4	1182.6	1264.9	1357.5	1408.9	1460.2	1486.0	1511.8
50°	740.4	776.4	833.0	879.2	910.1	1023.2	1121.0	1187.8	1244.4	1280.4	1306.0
52.5°	519.4	560.5	622.1	663.2	709.6	817.6	930.6	1007.9	1069.5	1115.8	1141.5
55°	359.9	406.2	462.8	503.9	555.4	668.5	776.4	858.8	925.5	966.6	997.5
57.5°	252.0	293.1	349.6	385.6	437.1	545.0	653.0	735.2	802.1	843.2	879.2
60°	169.6	210.9	267.4	303.4	344.5	452.5	550.1	637.6	699.2	740.4	776.4
62.5°	118.2	154.2	210.9	246.8	282.8	375.4	467.9	545.0	606.8	653.0	683.9
65°	92.5	123.4	169.6	200.5	236.5	313.6	390.8	457.6	519.4	565.6	586.1
67.5°	66.9	97.8	133.8	159.4	185.1	252.0	318.8	370.2	426.8	462.8	488.5
70°	46.2	66.9	97.8	118.2	138.9	190.2	241.6	288.0	329.1	354.8	375.4
72.5°	36.0	46.2	66.9	82.2	97.8	133.8	174.9	210.9	241.6	262.2	282.8
75°	20.6	30.9	46.2	56.5	66.9	92.5	118.2	144.0	164.5	180.0	190.2
77.5°	10.2	15.4	25.8	30.9	41.1	56.5	77.1	92.5	108.0	118.2	128.5
80°	10.2	10.2	15.4	15.4	20.6	30.9	41.1	51.4	61.8	72.0	77.1
82.5°	5.1	5.1	10.2	10.2	10.2	15.4	20.6	30.9	36.0	41.1	46.2
85°	5.1	5.1	5.1	5.1	5.1	10.2	10.2	15.4	20.6	25.8	25.8
87.5°	0.0	0.0	5.1	5.1	5.1	5.1	5.1	10.2	10.2	10.2	15.4
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: P252626

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8	4447.8
2.5°	4432.4	4442.6	4437.5	4447.8	4432.4	4427.2	4437.5	4422.0
5°	4375.8	4380.9	4375.8	4375.8	4365.5	4355.2	4365.5	4350.0
7.5°	4288.4	4288.4	4272.9	4272.9	4252.4	4242.1	4242.1	4237.0
10°	4216.4	4201.0	4185.5	4190.6	4159.8	4149.5	4144.4	4139.2
12.5°	4180.4	4170.1	4144.4	4144.4	4113.5	4103.2	4098.1	4093.0
15°	4139.2	4118.6	4098.1	4093.0	4067.2	4057.0	4051.9	4041.5
17.5°	4067.2	4051.9	4026.1	4026.1	4000.4	3995.2	3985.0	3979.9
20°	3990.1	3969.5	3949.0	3949.0	3918.1	3918.1	3902.8	3907.9
22.5°	3882.1	3866.8	3846.1	3846.1	3820.5	3815.2	3799.9	3794.8
25°	3753.6	3733.0	3717.6	3712.5	3691.9	3681.6	3676.5	3666.1
27.5°	3583.9	3568.5	3553.1	3542.8	3517.1	3511.9	3496.5	3501.6
30°	3373.1	3362.9	3357.6	3347.4	3316.5	3306.2	3306.2	3290.9
32.5°	3141.8	3126.2	3116.0	3100.6	3074.9	3069.8	3054.2	3059.5
35°	2858.9	2838.4	2822.9	2828.0	2797.2	2792.0	2781.8	2786.9
37.5°	2565.9	2545.2	2524.6	2519.5	2493.9	2493.9	2478.4	2478.4
40°	2262.5	2241.9	2231.6	2231.6	2200.8	2205.9	2190.5	2185.4
42.5°	1989.9	1969.4	1964.2	1959.1	1943.6	1938.5	1923.1	1928.2
45°	1732.9	1727.6	1727.6	1717.4	1702.0	1696.9	1702.0	1702.0
47.5°	1506.6	1511.8	1506.6	1506.6	1496.2	1506.6	1496.2	1501.5
50°	1316.4	1326.6	1326.6	1326.6	1321.5	1326.6	1326.6	1331.8
52.5°	1156.9	1172.4	1167.2	1172.4	1167.2	1177.5	1172.4	1177.5
55°	1018.1	1028.4	1033.5	1038.6	1038.6	1038.6	1038.6	1038.6
57.5°	889.5	905.0	910.1	915.2	915.2	925.5	915.2	915.2
60°	786.8	802.1	807.2	812.4	812.4	817.6	807.2	812.4
62.5°	694.1	709.6	709.6	714.8	714.8	714.8	704.5	709.6
65°	601.6	606.8	611.9	611.9	606.8	606.8	601.6	606.8
67.5°	498.8	503.9	498.8	498.8	493.6	493.6	483.4	488.5
70°	385.6	385.6	390.8	385.6	380.5	385.6	380.5	375.4
72.5°	288.0	288.0	288.0	282.8	282.8	277.6	282.8	282.8
75°	195.4	195.4	200.5	200.5	200.5	200.5	195.4	195.4
77.5°	128.5	128.5	128.5	128.5	133.8	128.5	128.5	128.5
80°	82.2	82.2	87.4	87.4	82.2	82.2	82.2	82.2
82.5°	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
85°	30.9	30.9	30.9	30.9	25.8	25.8	25.8	25.8
87.5°	15.4	15.4	15.4	15.4	15.4	15.4	10.2	10.2
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)