

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: P252210

Luminaire Tested: **LE_6B60D010R EC6B60708050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708050 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE 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: 9837.5 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

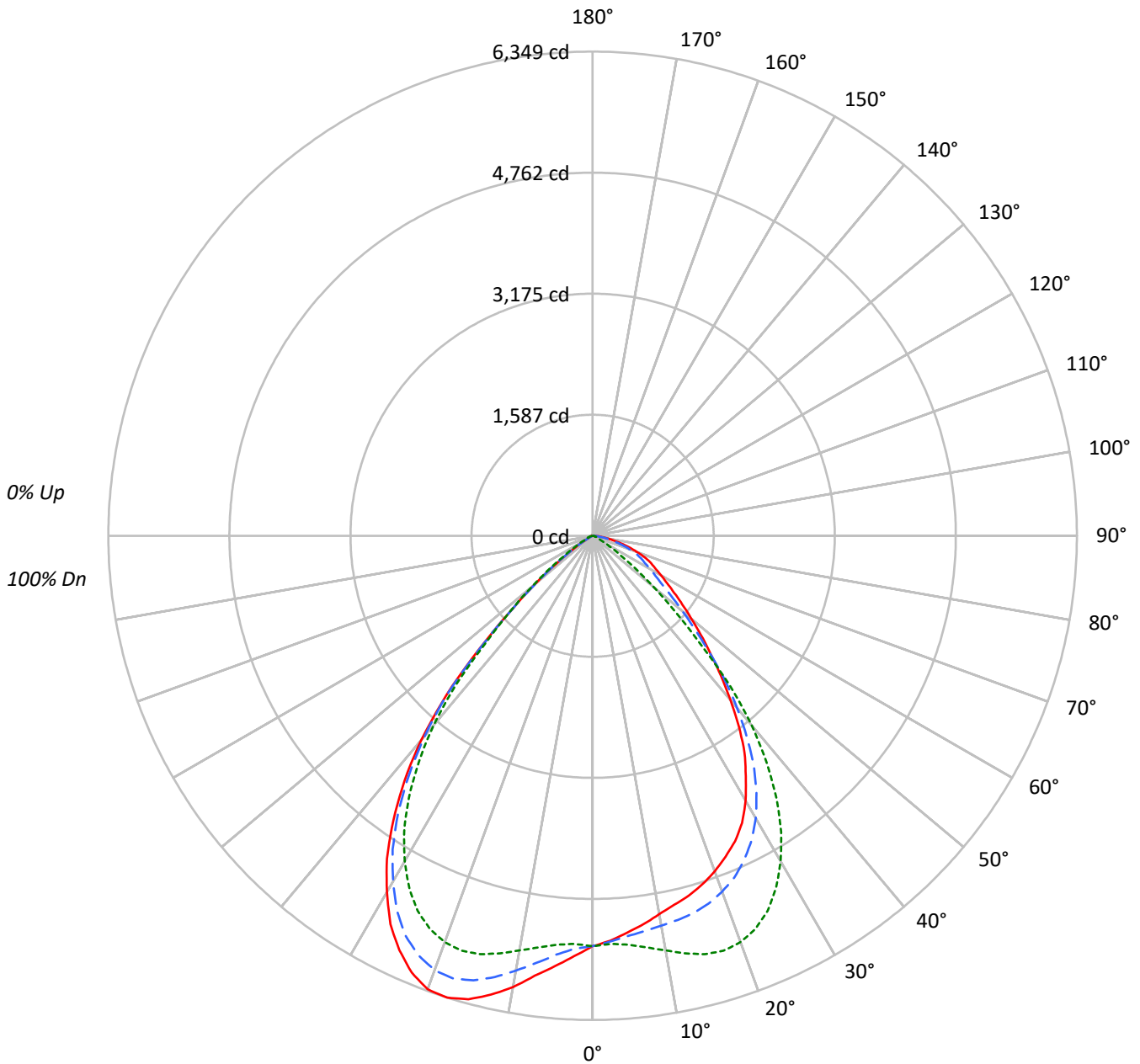
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252210

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1LI

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	351119	351119	351119
5°	342014	352460	370993
10°	333693	365737	398118
15°	329794	383652	425015
20°	325067	393655	439380
25°	318160	390749	431486
30°	302328	371326	406205
35°	276604	334792	362659
40°	239247	276499	297535
45°	201763	181345	194631
50°	171285	104957	98705
55°	148651	50332	38047
60°	134265	23500	9395
65°	130275	13508	3180
70°	116778	10796	2938
75°	95988	7789	1286
80°	71534	3832	0
85°	61681	0	0



TEST NUMBER: P252210

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.8	5.3
10°-20°	1584.3	16.1
20°-30°	2420.6	24.6
30°-40°	2531.8	25.7
40°-50°	1642.4	16.7
50°-60°	652.1	6.6
60°-70°	309.3	3.1
70°-80°	147.1	1.5
80°-90°	30.0	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°	4524.8	46.0
0°-40°	7056.5	71.7
0°-60°	9351.0	95.1
0°-90°	9837.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9837.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5382	5382	5382	5382	5382	
5°	5222	5269	5382	5516	5665	493
15°	4883	5120	5680	6035	6293	1376
25°	4420	4698	5428	5794	5994	2024
35°	3473	3684	4204	4451	4554	2148
45°	2187	2166	1966	2084	2110	1701
55°	1307	1111	442	345	334	1184
65°	844	700	88	21	21	824
75°	381	309	31	10	5	411
85°	82	52	0	0	0	96
90°	0	0	0	0	0	



TEST NUMBER: P252210

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9
2.5°	5315.0	5325.2	5268.8	5253.2	5294.4	5309.9	5315.0	5299.6	5304.8	5325.2	5325.2
5°	5222.4	5232.6	5181.2	5165.8	5207.0	5217.2	5232.6	5227.5	5243.0	5273.9	5268.8
7.5°	5134.9	5150.4	5093.8	5073.1	5124.6	5150.4	5160.6	5160.6	5181.2	5222.4	5227.5
10°	5037.1	5057.8	5006.2	4996.0	5052.6	5078.4	5083.5	5093.8	5124.6	5181.2	5191.5
12.5°	4954.9	4975.4	4939.4	4924.0	4985.8	5011.4	5021.8	5042.2	5078.4	5150.4	5160.6
15°	4882.8	4898.2	4857.1	4846.8	4908.5	4939.4	4944.5	4975.4	5021.8	5104.0	5119.5
17.5°	4790.2	4800.5	4769.6	4759.4	4821.0	4851.9	4857.1	4893.1	4949.8	5032.0	5057.8
20°	4682.1	4692.4	4661.5	4651.2	4713.0	4749.0	4754.1	4785.0	4851.9	4939.4	4965.1
22.5°	4553.5	4574.1	4538.1	4527.8	4589.5	4620.4	4635.9	4661.5	4728.5	4815.9	4851.9
25°	4419.8	4419.8	4394.0	4388.9	4445.5	4481.5	4476.4	4512.4	4579.2	4666.8	4697.6
27.5°	4244.8	4239.6	4213.9	4208.8	4270.5	4301.4	4291.1	4327.1	4388.9	4476.4	4507.2
30°	4013.2	4023.5	3987.5	3977.2	4028.8	4080.1	4075.0	4111.0	4172.8	4255.1	4275.6
32.5°	3735.4	3745.8	3740.6	3725.1	3771.5	3797.1	3812.6	3838.4	3889.8	3977.2	3997.9
35°	3473.0	3457.6	3437.0	3437.0	3483.2	3524.5	3509.0	3539.9	3591.4	3678.9	3684.0
37.5°	3148.9	3143.8	3133.4	3123.1	3174.6	3184.9	3190.0	3210.6	3256.9	3329.0	3318.6
40°	2809.2	2814.4	2809.2	2788.8	2819.6	2860.8	2855.6	2865.9	2907.0	2958.5	2943.0
42.5°	2490.2	2490.2	2490.2	2469.8	2505.8	2526.2	2536.6	2531.5	2541.8	2588.0	2567.5
45°	2186.8	2191.9	2186.8	2181.6	2186.8	2197.0	2186.8	2181.6	2181.6	2197.0	2166.1
47.5°	1924.2	1924.2	1908.9	1893.4	1908.9	1914.0	1898.6	1883.1	1878.0	1872.9	1821.4
50°	1687.6	1682.5	1677.4	1651.6	1667.0	1672.2	1651.6	1641.4	1620.8	1595.0	1533.2
52.5°	1481.9	1476.6	1471.5	1445.8	1456.1	1461.2	1440.6	1420.1	1394.4	1373.8	1296.6
55°	1306.9	1301.8	1301.8	1286.2	1276.0	1286.2	1265.8	1250.2	1214.2	1188.5	1111.4
57.5°	1157.6	1157.6	1147.4	1132.0	1137.1	1137.1	1116.5	1095.9	1065.0	1034.1	972.5
60°	1029.0	1029.0	1029.0	1013.6	1013.6	1013.6	1003.4	982.8	957.0	926.1	864.4
62.5°	926.1	926.1	921.0	905.5	910.8	910.8	900.4	879.9	854.1	833.5	771.8
65°	843.9	843.9	843.9	828.4	828.4	833.5	823.2	802.6	782.1	756.4	699.8
67.5°	740.9	735.8	735.8	725.5	730.6	735.8	725.5	710.0	684.4	668.9	617.4
70°	612.2	617.4	622.6	607.1	612.2	612.2	607.1	591.8	576.2	560.9	514.5
72.5°	499.1	499.1	494.0	488.8	488.8	494.0	483.6	468.2	457.9	447.6	411.6
75°	380.8	375.6	380.8	370.5	370.5	370.5	360.1	355.0	349.9	334.5	308.8
77.5°	277.9	272.8	272.8	262.4	267.5	267.5	262.4	252.1	241.9	236.6	216.1
80°	190.4	190.4	190.4	185.2	185.2	180.1	180.1	174.9	164.6	159.5	149.2
82.5°	128.6	128.6	128.6	123.5	123.5	123.5	118.4	113.2	108.0	102.9	92.6
85°	82.4	82.4	82.4	77.1	77.1	77.1	72.0	72.0	66.9	61.8	51.5
87.5°	46.2	46.2	46.2	41.1	41.1	41.1	41.1	41.1	36.0	30.9	25.8
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: P252210

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9
2.5°	5361.2	5289.2	5335.6	5335.6	5320.1	5361.2	5387.0	5407.6	5402.5	5356.1	5351.0
5°	5320.1	5258.4	5309.9	5315.0	5299.6	5356.1	5392.1	5417.9	5423.0	5381.9	5387.0
7.5°	5289.2	5237.9	5304.8	5325.2	5320.1	5371.6	5412.8	5453.9	5474.5	5443.6	5448.8
10°	5273.9	5232.6	5304.8	5335.6	5340.8	5397.4	5459.1	5515.6	5541.4	5520.8	5536.2
12.5°	5253.2	5227.5	5309.9	5356.1	5376.8	5433.4	5510.5	5577.4	5618.6	5608.2	5639.1
15°	5232.6	5212.1	5309.9	5376.8	5402.5	5453.9	5541.4	5639.1	5685.5	5680.2	5721.5
17.5°	5181.2	5176.1	5279.0	5351.0	5387.0	5448.8	5531.1	5649.5	5695.8	5706.0	5757.5
20°	5098.9	5098.9	5212.1	5289.2	5330.4	5387.0	5490.0	5603.1	5659.8	5670.0	5726.6
22.5°	4985.8	4996.0	5104.0	5181.2	5243.0	5284.1	5392.1	5510.5	5562.0	5577.4	5639.1
25°	4836.5	4846.8	4949.8	5026.9	5093.8	5140.1	5243.0	5351.0	5412.8	5428.2	5474.5
27.5°	4641.0	4661.5	4759.4	4836.5	4893.1	4924.0	5032.0	5145.2	5191.5	5207.0	5253.2
30°	4414.6	4419.8	4517.5	4584.4	4641.0	4666.8	4759.4	4877.6	4913.6	4929.1	4996.0
32.5°	4136.8	4131.6	4224.2	4286.0	4332.2	4363.1	4460.9	4538.1	4574.1	4599.9	4635.9
35°	3802.2	3797.1	3864.0	3936.1	3972.1	3982.4	4080.1	4162.5	4183.0	4203.6	4250.0
37.5°	3426.8	3426.8	3483.2	3519.4	3560.5	3575.9	3622.2	3714.9	3750.9	3745.8	3781.8
40°	3030.5	3010.0	3051.1	3087.1	3097.4	3102.5	3148.9	3220.9	3246.6	3246.6	3272.4
42.5°	2613.8	2582.9	2588.0	2608.6	2618.9	2582.9	2613.8	2660.1	2644.6	2665.2	2670.4
45°	2171.2	2125.0	2104.4	2058.1	2068.4	2032.4	2011.8	2022.1	2016.9	1965.5	1975.8
47.5°	1811.1	1728.8	1692.8	1625.9	1610.5	1569.2	1543.6	1497.2	1456.1	1456.1	1430.4
50°	1507.5	1425.2	1353.2	1276.0	1250.2	1214.2	1157.6	1095.9	1065.0	1034.1	1008.5
52.5°	1265.8	1178.2	1090.8	1008.5	972.5	926.1	849.0	787.2	730.6	699.8	668.9
55°	1070.2	972.5	879.9	792.4	746.0	699.8	622.6	550.5	483.6	442.5	416.8
57.5°	921.0	828.4	730.6	638.0	596.9	545.4	463.1	385.9	324.1	277.9	252.1
60°	813.0	720.4	632.9	535.1	494.0	442.5	355.0	283.0	221.2	180.1	149.2
62.5°	720.4	638.0	545.4	457.9	416.8	365.2	283.0	211.0	154.4	113.2	87.5
65°	653.5	571.1	494.0	406.5	370.5	319.0	241.9	174.9	123.5	87.5	61.8
67.5°	576.2	504.2	427.0	355.0	319.0	277.9	205.8	149.2	102.9	72.0	51.5
70°	483.6	427.0	360.1	293.2	267.5	231.5	169.8	123.5	82.4	56.6	41.1
72.5°	385.9	339.6	288.1	236.6	216.1	180.1	138.9	97.8	61.8	41.1	30.9
75°	293.2	257.2	216.1	180.1	159.5	138.9	102.9	72.0	46.2	30.9	20.6
77.5°	200.6	185.2	154.4	123.5	113.2	97.8	66.9	46.2	30.9	20.6	10.2
80°	138.9	123.5	102.9	82.4	72.0	61.8	41.1	30.9	15.4	10.2	5.1
82.5°	87.5	72.0	61.8	51.5	46.2	36.0	25.8	15.4	10.2	5.1	5.1
85°	46.2	41.1	36.0	25.8	25.8	20.6	15.4	10.2	5.1	0.0	0.0
87.5°	25.8	20.6	15.4	10.2	10.2	5.1	5.1	5.1	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



TEST NUMBER: P252210

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9
2.5°	5412.8	5412.8	5407.6	5469.4	5397.4	5469.4	5433.4	5469.4	5417.9	5412.8	5417.9
5°	5453.9	5469.4	5474.5	5531.1	5464.2	5551.6	5520.8	5551.6	5515.6	5526.0	5541.4
7.5°	5536.2	5562.0	5556.9	5628.9	5562.0	5659.8	5639.1	5685.5	5649.5	5659.8	5680.2
10°	5628.9	5659.8	5664.9	5736.9	5675.1	5793.5	5767.8	5819.2	5788.4	5803.8	5829.5
12.5°	5736.9	5772.9	5778.1	5860.4	5793.5	5917.0	5901.5	5953.0	5927.2	5942.8	5973.6
15°	5819.2	5870.6	5881.0	5963.2	5891.2	6019.9	6009.6	6076.5	6035.4	6061.0	6086.8
17.5°	5860.4	5906.8	5927.2	6004.5	5942.8	6071.4	6061.0	6117.6	6086.8	6112.5	6143.4
20°	5834.6	5891.2	5906.8	5983.9	5922.1	6050.8	6035.4	6091.9	6061.0	6081.6	6112.5
22.5°	5742.0	5798.6	5819.2	5891.2	5834.6	5953.0	5947.9	5999.4	5958.1	5983.9	6009.6
25°	5577.4	5639.1	5649.5	5716.4	5654.6	5778.1	5767.8	5824.4	5793.5	5809.0	5845.0
27.5°	5340.8	5412.8	5428.2	5484.8	5438.5	5541.4	5541.4	5587.8	5551.6	5551.6	5587.8
30°	5057.8	5129.8	5140.1	5186.4	5145.2	5237.9	5243.0	5289.2	5232.6	5263.5	5268.8
32.5°	4713.0	4759.4	4790.2	4831.4	4769.6	4888.0	4872.5	4908.5	4877.6	4877.6	4903.4
35°	4296.2	4352.9	4368.2	4419.8	4368.2	4460.9	4460.9	4481.5	4450.6	4450.6	4491.8
37.5°	3843.5	3884.6	3889.8	3941.2	3900.1	3977.2	3972.1	3987.5	3956.6	3977.2	3977.2
40°	3313.5	3344.4	3354.6	3380.4	3375.2	3431.9	3426.8	3437.0	3421.6	3426.8	3437.0
42.5°	2696.1	2737.2	2757.9	2778.4	2747.5	2824.8	2809.2	2824.8	2819.6	2824.8	2840.1
45°	1986.0	2016.9	2032.4	2037.5	2027.2	2073.5	2109.5	2078.6	2083.8	2073.5	2094.1
47.5°	1435.5	1440.6	1430.4	1461.2	1435.5	1456.1	1466.4	1471.5	1440.6	1435.5	1456.1
50°	982.8	1008.5	972.5	987.9	982.8	1003.4	993.0	998.1	967.2	982.8	972.5
52.5°	653.5	648.2	638.0	643.1	632.9	632.9	632.9	643.1	622.6	612.2	602.0
55°	396.1	385.9	365.2	360.1	360.1	365.2	355.0	344.8	344.8	339.6	339.6
57.5°	231.5	216.1	205.8	200.6	190.4	185.2	180.1	180.1	169.8	169.8	169.8
60°	128.6	113.2	102.9	92.6	92.6	87.5	82.4	77.1	77.1	77.1	72.0
62.5°	66.9	56.6	46.2	41.1	41.1	36.0	30.9	30.9	30.9	30.9	25.8
65°	46.2	36.0	30.9	25.8	25.8	20.6	20.6	20.6	20.6	20.6	20.6
67.5°	36.0	30.9	25.8	20.6	20.6	20.6	15.4	15.4	15.4	15.4	15.4
70°	30.9	20.6	20.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
72.5°	20.6	20.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
75°	15.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	0.0	0.0	0.0	0.0	0.0
80°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P252210

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9	5381.9
2.5°	5464.2	5459.1	5464.2	5474.5	5453.9	5515.6	5484.8	5515.6
5°	5582.5	5587.8	5592.9	5608.2	5582.5	5659.8	5618.6	5664.9
7.5°	5736.9	5742.0	5747.2	5762.6	5747.2	5824.4	5778.1	5819.2
10°	5896.4	5906.8	5906.8	5932.4	5917.0	5989.0	5958.1	6009.6
12.5°	6045.6	6055.9	6066.2	6081.6	6071.4	6148.5	6122.8	6164.0
15°	6164.0	6184.5	6189.6	6210.2	6200.0	6282.2	6251.4	6292.6
17.5°	6220.5	6241.1	6241.1	6266.9	6256.6	6344.0	6302.9	6349.2
20°	6189.6	6205.1	6210.2	6236.0	6225.8	6313.1	6272.0	6328.6
22.5°	6091.9	6097.1	6102.2	6128.0	6122.8	6200.0	6164.0	6200.0
25°	5911.9	5927.2	5922.1	5942.8	5942.8	6004.5	5963.2	5994.1
27.5°	5654.6	5670.0	5670.0	5695.8	5675.1	5736.9	5695.8	5742.0
30°	5340.8	5356.1	5345.9	5366.5	5345.9	5407.6	5376.8	5392.1
32.5°	4965.1	4965.1	4970.2	4975.4	4965.1	5021.8	4990.9	5021.8
35°	4517.5	4527.8	4532.9	4538.1	4527.8	4569.0	4532.9	4553.5
37.5°	4013.2	4039.0	4033.9	4039.0	4023.5	4075.0	4044.1	4054.4
40°	3473.0	3473.0	3467.9	3478.1	3462.8	3503.9	3483.2	3493.6
42.5°	2845.2	2860.8	2840.1	2865.9	2824.8	2881.4	2860.8	2845.2
45°	2135.2	2114.6	2109.5	2114.6	2099.2	2104.4	2119.9	2109.5
47.5°	1456.1	1456.1	1445.8	1430.4	1451.0	1456.1	1435.5	1435.5
50°	977.6	977.6	967.2	962.1	972.5	967.2	957.0	972.5
52.5°	622.6	602.0	602.0	612.2	602.0	591.8	607.1	596.9
55°	339.6	329.2	329.2	339.6	329.2	329.2	324.1	334.5
57.5°	164.6	169.8	164.6	164.6	164.6	164.6	159.5	164.6
60°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
62.5°	30.9	30.9	25.8	25.8	25.8	25.8	25.8	25.8
65°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
67.5°	15.4	15.4	15.4	15.4	15.4	20.6	15.4	15.4
70°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
72.5°	15.4	15.4	20.6	20.6	20.6	20.6	20.6	20.6
75°	10.2	10.2	10.2	5.1	5.1	5.1	5.1	5.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)