

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: P252208

Luminaire Tested: **LE_6B60D010R EC6B60708035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252208
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 EC6B60708035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9746.2 lumens
Efficiency: N/A
Efficacy: 155.9 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

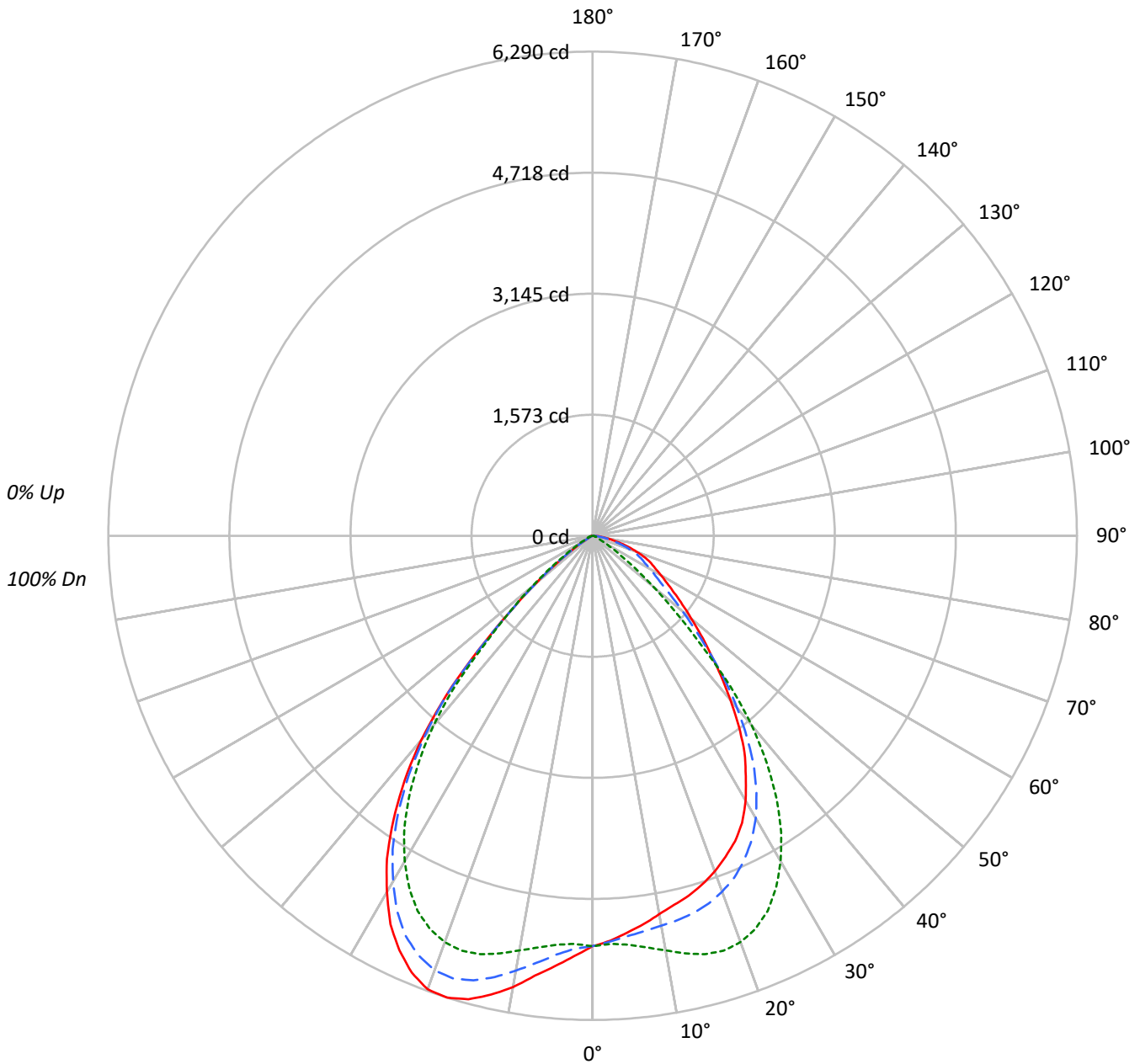
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	347863	347863	347863
5°	338844	349192	367555
10°	330599	362345	394428
15°	326735	380100	421071
20°	322061	390003	435304
25°	315208	387128	427491
30°	299526	367883	402438
35°	274039	331686	359290
40°	237033	273935	294775
45°	199881	179657	192832
50°	169702	103993	97782
55°	147275	49865	37695
60°	133026	23278	9316
65°	129055	13369	3149
70°	115709	10701	2899
75°	95081	7713	1286
80°	70858	3832	0
85°	61007	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.0	5.3
10°-20°	1569.6	16.1
20°-30°	2398.2	24.6
30°-40°	2508.3	25.7
40°-50°	1627.1	16.7
50°-60°	646.1	6.6
60°-70°	306.5	3.1
70°-80°	145.7	1.5
80°-90°	29.7	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°	4482.8	46.0
0°-40°	6991.1	71.7
0°-60°	9264.3	95.1
0°-90°	9746.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9746.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5332	5332	5332	5332	5332	
5°	5174	5220	5332	5464	5612	489
15°	4838	5072	5628	5979	6234	1363
25°	4379	4654	5378	5740	5939	2005
35°	3441	3650	4165	4409	4511	2128
45°	2166	2146	1947	2064	2090	1686
55°	1295	1101	438	342	331	1173
65°	836	693	87	20	20	817
75°	377	306	31	10	5	407
85°	82	51	0	0	0	95
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°	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0
2.5°	5265.8	5275.9	5219.9	5204.5	5245.2	5260.6	5265.8	5250.4	5255.5	5275.9	5275.9
5°	5174.0	5184.1	5133.1	5117.9	5158.6	5168.9	5184.1	5179.0	5194.4	5224.9	5219.9
7.5°	5087.2	5102.6	5046.5	5026.1	5077.1	5102.6	5112.8	5112.8	5133.1	5174.0	5179.0
10°	4990.4	5010.9	4959.9	4949.6	5005.8	5031.2	5036.4	5046.5	5077.1	5133.1	5143.4
12.5°	4908.9	4929.2	4893.6	4878.2	4939.5	4965.0	4975.1	4995.5	5031.2	5102.6	5112.8
15°	4837.5	4852.8	4812.0	4801.9	4863.0	4893.6	4898.6	4929.2	4975.1	5056.8	5072.0
17.5°	4745.8	4756.0	4725.4	4715.1	4776.4	4806.9	4812.0	4847.8	4903.8	4985.4	5010.9
20°	4638.8	4648.9	4618.4	4608.1	4669.2	4705.0	4710.1	4740.6	4806.9	4893.6	4919.1
22.5°	4511.2	4531.6	4496.0	4485.8	4547.0	4577.5	4592.9	4618.4	4684.6	4771.2	4806.9
25°	4378.8	4378.8	4353.2	4348.1	4404.2	4439.9	4434.8	4470.5	4536.8	4623.4	4654.0
27.5°	4205.4	4200.4	4174.9	4169.8	4230.9	4261.5	4251.2	4287.0	4348.1	4434.8	4465.4
30°	3976.0	3986.2	3950.5	3940.4	3991.4	4042.2	4037.2	4072.9	4134.0	4215.6	4236.0
32.5°	3700.8	3711.0	3705.9	3690.6	3736.5	3762.0	3777.2	3802.8	3853.8	3940.4	3960.8
35°	3440.8	3425.5	3405.1	3405.1	3451.0	3491.8	3476.5	3507.1	3558.0	3644.8	3649.8
37.5°	3119.6	3114.5	3104.4	3094.1	3145.1	3155.4	3160.5	3180.9	3226.8	3298.1	3287.9
40°	2783.2	2788.4	2783.2	2762.9	2793.4	2834.2	2829.1	2839.2	2880.1	2931.0	2915.8
42.5°	2467.1	2467.1	2467.1	2446.8	2482.5	2502.9	2513.0	2508.0	2518.1	2564.0	2543.6
45°	2166.4	2171.5	2166.4	2161.4	2166.4	2176.6	2166.4	2161.4	2161.4	2176.6	2146.0
47.5°	1906.5	1906.5	1891.1	1875.9	1891.1	1896.2	1881.0	1865.6	1860.6	1855.5	1804.5
50°	1672.0	1666.9	1661.8	1636.2	1651.6	1656.6	1636.2	1626.1	1605.8	1580.2	1519.0
52.5°	1468.1	1463.0	1457.9	1432.4	1442.6	1447.6	1427.2	1406.9	1381.4	1361.0	1284.6
55°	1294.8	1289.6	1289.6	1274.4	1264.1	1274.4	1254.0	1238.8	1203.0	1177.5	1101.0
57.5°	1146.9	1146.9	1136.8	1121.5	1126.5	1126.5	1106.1	1085.8	1055.1	1024.6	963.4
60°	1019.5	1019.5	1019.5	1004.2	1004.2	1004.2	994.0	973.6	948.1	917.5	856.4
62.5°	917.5	917.5	912.5	897.1	902.2	902.2	892.0	871.6	846.1	825.8	764.6
65°	836.0	836.0	836.0	820.8	820.8	825.8	815.6	795.2	774.9	749.4	693.2
67.5°	734.0	729.0	729.0	718.8	723.9	729.0	718.8	703.5	678.0	662.6	611.8
70°	606.6	611.8	616.8	601.5	606.6	606.6	601.5	586.2	570.9	555.6	509.8
72.5°	494.5	494.5	489.4	484.2	484.2	489.4	479.1	463.9	453.6	443.5	407.8
75°	377.2	372.1	377.2	367.0	367.0	367.0	356.9	351.8	346.6	331.4	305.9
77.5°	275.2	270.1	270.1	260.0	265.1	265.1	260.0	249.8	239.6	234.5	214.1
80°	188.6	188.6	188.6	183.5	183.5	178.4	178.4	173.4	163.1	158.0	147.9
82.5°	127.4	127.4	127.4	122.4	122.4	122.4	117.2	112.1	107.0	102.0	91.8
85°	81.5	81.5	81.5	76.5	76.5	76.5	71.4	71.4	66.2	61.1	51.0
87.5°	45.9	45.9	45.9	40.8	40.8	40.8	40.8	40.8	35.6	30.6	25.5
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°	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0
2.5°	5311.6	5240.2	5286.1	5286.1	5270.8	5311.6	5337.1	5357.5	5352.4	5306.5	5301.4
5°	5270.8	5209.6	5260.6	5265.8	5250.4	5306.5	5342.1	5367.6	5372.8	5332.0	5337.1
7.5°	5240.2	5189.2	5255.5	5275.9	5270.8	5321.8	5362.5	5403.4	5423.8	5393.1	5398.2
10°	5224.9	5184.1	5255.5	5286.1	5291.2	5347.2	5408.4	5464.5	5490.0	5469.6	5484.9
12.5°	5204.5	5179.0	5260.6	5306.5	5326.9	5383.0	5459.4	5525.6	5566.5	5556.2	5586.9
15°	5184.1	5163.8	5260.6	5326.9	5352.4	5403.4	5490.0	5586.9	5632.8	5627.6	5668.4
17.5°	5133.1	5128.1	5230.0	5301.4	5337.1	5398.2	5479.8	5597.0	5642.9	5653.1	5704.1
20°	5051.6	5051.6	5163.8	5240.2	5281.0	5337.1	5439.0	5551.1	5607.2	5617.4	5673.5
22.5°	4939.5	4949.6	5056.8	5133.1	5194.4	5235.1	5342.1	5459.4	5510.4	5525.6	5586.9
25°	4791.6	4801.9	4903.8	4980.2	5046.5	5092.4	5194.4	5301.4	5362.5	5377.9	5423.8
27.5°	4597.9	4618.4	4715.1	4791.6	4847.8	4878.2	4985.4	5097.5	5143.4	5158.6	5204.5
30°	4373.6	4378.8	4475.6	4541.9	4597.9	4623.4	4715.1	4832.4	4868.1	4883.4	4949.6
32.5°	4098.4	4093.2	4185.0	4246.2	4292.1	4322.6	4419.5	4496.0	4531.6	4557.1	4592.9
35°	3767.0	3762.0	3828.2	3899.6	3935.2	3945.5	4042.2	4123.9	4144.2	4164.6	4210.5
37.5°	3394.9	3394.9	3451.0	3486.6	3527.5	3542.8	3588.6	3680.4	3716.1	3711.0	3746.6
40°	3002.4	2982.0	3022.8	3058.5	3068.6	3073.8	3119.6	3191.0	3216.5	3216.5	3242.0
42.5°	2589.5	2558.9	2564.0	2584.4	2594.6	2558.9	2589.5	2635.4	2620.1	2640.5	2645.6
45°	2151.1	2105.2	2084.9	2039.0	2049.2	2013.5	1993.1	2003.2	1998.2	1947.2	1957.4
47.5°	1794.4	1712.8	1677.1	1610.8	1595.5	1554.8	1529.2	1483.4	1442.6	1442.6	1417.1
50°	1493.6	1412.0	1340.6	1264.1	1238.8	1203.0	1146.9	1085.8	1055.1	1024.6	999.1
52.5°	1254.0	1167.4	1080.6	999.1	963.4	917.5	841.1	779.9	723.9	693.2	662.6
55°	1060.2	963.4	871.6	785.0	739.1	693.2	616.8	545.4	479.1	438.4	412.9
57.5°	912.5	820.8	723.9	632.1	591.2	540.4	458.8	382.2	321.1	275.2	249.8
60°	805.4	713.6	627.0	530.1	489.4	438.4	351.8	280.4	219.2	178.4	147.9
62.5°	713.6	632.1	540.4	453.6	412.9	361.9	280.4	209.0	152.9	112.1	86.6
65°	647.4	565.9	489.4	402.8	367.0	316.0	239.6	173.4	122.4	86.6	61.1
67.5°	570.9	499.5	423.1	351.8	316.0	275.2	203.9	147.9	102.0	71.4	51.0
70°	479.1	423.1	356.9	290.5	265.1	229.4	168.2	122.4	81.5	56.1	40.8
72.5°	382.2	336.4	285.5	234.5	214.1	178.4	137.6	96.9	61.1	40.8	30.6
75°	290.5	254.9	214.1	178.4	158.0	137.6	102.0	71.4	45.9	30.6	20.4
77.5°	198.8	183.5	152.9	122.4	112.1	96.9	66.2	45.9	30.6	20.4	10.2
80°	137.6	122.4	102.0	81.5	71.4	61.1	40.8	30.6	15.2	10.2	5.1
82.5°	86.6	71.4	61.1	51.0	45.9	35.6	25.5	15.2	10.2	5.1	5.1
85°	45.9	40.8	35.6	25.5	25.5	20.4	15.2	10.2	5.1	0.0	0.0
87.5°	25.5	20.4	15.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0
2.5°	5362.5	5362.5	5357.5	5418.6	5347.2	5418.6	5383.0	5418.6	5367.6	5362.5	5367.6
5°	5403.4	5418.6	5423.8	5479.8	5413.5	5500.1	5469.6	5500.1	5464.5	5474.8	5490.0
7.5°	5484.9	5510.4	5505.2	5576.6	5510.4	5607.2	5586.9	5632.8	5597.0	5607.2	5627.6
10°	5576.6	5607.2	5612.4	5683.8	5622.5	5739.8	5714.2	5765.2	5734.6	5750.0	5775.5
12.5°	5683.8	5719.4	5724.5	5806.0	5739.8	5862.1	5846.9	5897.8	5872.2	5887.6	5918.1
15°	5765.2	5816.2	5826.4	5908.0	5836.6	5964.0	5953.9	6020.1	5979.4	6004.9	6030.4
17.5°	5806.0	5851.9	5872.2	5948.8	5887.6	6015.0	6004.9	6060.9	6030.4	6055.8	6086.4
20°	5780.5	5836.6	5851.9	5928.4	5867.2	5994.6	5979.4	6035.4	6004.9	6025.2	6055.8
22.5°	5688.8	5744.9	5765.2	5836.6	5780.5	5897.8	5892.8	5943.6	5902.9	5928.4	5953.9
25°	5525.6	5586.9	5597.0	5663.2	5602.1	5724.5	5714.2	5770.4	5739.8	5755.0	5790.8
27.5°	5291.2	5362.5	5377.9	5433.9	5388.0	5490.0	5490.0	5535.9	5500.1	5500.1	5535.9
30°	5010.9	5082.2	5092.4	5138.2	5097.5	5189.2	5194.4	5240.2	5184.1	5214.8	5219.9
32.5°	4669.2	4715.1	4745.8	4786.5	4725.4	4842.6	4827.4	4863.0	4832.4	4832.4	4857.9
35°	4256.4	4312.5	4327.8	4378.8	4327.8	4419.5	4419.5	4439.9	4409.4	4409.4	4450.1
37.5°	3807.9	3848.6	3853.8	3904.6	3863.9	3940.4	3935.2	3950.5	3920.0	3940.4	3940.4
40°	3282.8	3313.4	3323.5	3349.0	3344.0	3400.0	3394.9	3405.1	3389.9	3394.9	3405.1
42.5°	2671.1	2711.9	2732.2	2752.6	2722.0	2798.5	2783.2	2798.5	2793.4	2798.5	2813.8
45°	1967.6	1998.2	2013.5	2018.6	2008.4	2054.2	2090.0	2059.4	2064.5	2054.2	2074.6
47.5°	1422.2	1427.2	1417.1	1447.6	1422.2	1442.6	1452.8	1457.9	1427.2	1422.2	1442.6
50°	973.6	999.1	963.4	978.8	973.6	994.0	983.9	988.9	958.4	973.6	963.4
52.5°	647.4	642.2	632.1	637.1	627.0	627.0	627.0	637.1	616.8	606.6	596.4
55°	392.5	382.2	361.9	356.9	356.9	361.9	351.8	341.5	341.5	336.4	336.4
57.5°	229.4	214.1	203.9	198.8	188.6	183.5	178.4	178.4	168.2	168.2	168.2
60°	127.4	112.1	102.0	91.8	91.8	86.6	81.5	76.5	76.5	76.5	71.4
62.5°	66.2	56.1	45.9	40.8	40.8	35.6	30.6	30.6	30.6	30.6	25.5
65°	45.9	35.6	30.6	25.5	25.5	20.4	20.4	20.4	20.4	20.4	20.4
67.5°	35.6	30.6	25.5	20.4	20.4	20.4	15.2	15.2	15.2	15.2	15.2
70°	30.6	20.4	20.4	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
72.5°	20.4	20.4	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
75°	15.2	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: P252208

CATALOG NUMBER: LE_6B60D010R EC6B60708035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0	5332.0
2.5°	5413.5	5408.4	5413.5	5423.8	5403.4	5464.5	5433.9	5464.5
5°	5530.8	5535.9	5541.0	5556.2	5530.8	5607.2	5566.5	5612.4
7.5°	5683.8	5688.8	5693.9	5709.1	5693.9	5770.4	5724.5	5765.2
10°	5841.8	5851.9	5851.9	5877.4	5862.1	5933.5	5902.9	5953.9
12.5°	5989.5	5999.8	6009.9	6025.2	6015.0	6091.5	6066.0	6106.8
15°	6106.8	6127.1	6132.2	6152.6	6142.5	6224.0	6193.5	6234.2
17.5°	6162.9	6183.2	6183.2	6208.8	6198.5	6285.2	6244.4	6290.2
20°	6132.2	6147.6	6152.6	6178.1	6168.0	6254.6	6213.9	6269.9
22.5°	6035.4	6040.5	6045.6	6071.1	6066.0	6142.5	6106.8	6142.5
25°	5857.0	5872.2	5867.2	5887.6	5887.6	5948.8	5908.0	5938.6
27.5°	5602.1	5617.4	5617.4	5642.9	5622.5	5683.8	5642.9	5688.8
30°	5291.2	5306.5	5296.2	5316.6	5296.2	5357.5	5326.9	5342.1
32.5°	4919.1	4919.1	4924.1	4929.2	4919.1	4975.1	4944.5	4975.1
35°	4475.6	4485.8	4490.9	4496.0	4485.8	4526.6	4490.9	4511.2
37.5°	3976.0	4001.5	3996.4	4001.5	3986.2	4037.2	4006.6	4016.9
40°	3440.8	3440.8	3435.8	3445.9	3430.6	3471.4	3451.0	3461.2
42.5°	2818.9	2834.2	2813.8	2839.2	2798.5	2854.6	2834.2	2818.9
45°	2115.5	2095.1	2090.0	2095.1	2079.8	2084.9	2100.1	2090.0
47.5°	1442.6	1442.6	1432.4	1417.1	1437.5	1442.6	1422.2	1422.2
50°	968.5	968.5	958.4	953.2	963.4	958.4	948.1	963.4
52.5°	616.8	596.4	596.4	606.6	596.4	586.2	601.5	591.2
55°	336.4	326.2	326.2	336.4	326.2	326.2	321.1	331.4
57.5°	163.1	168.2	163.1	163.1	163.1	163.1	158.0	163.1
60°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
62.5°	30.6	30.6	25.5	25.5	25.5	25.5	25.5	25.5
65°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
67.5°	15.2	15.2	15.2	15.2	15.2	20.4	15.2	15.2
70°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
72.5°	15.2	15.2	20.4	20.4	20.4	20.4	20.4	20.4
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)