

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: P252194

Luminaire Tested: **LE_6B50D010R EC6B30508030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252194
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_6B50D010R EC6B30508030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE 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: 8505.0 lumens
Efficiency: N/A
Efficacy: 144.6 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

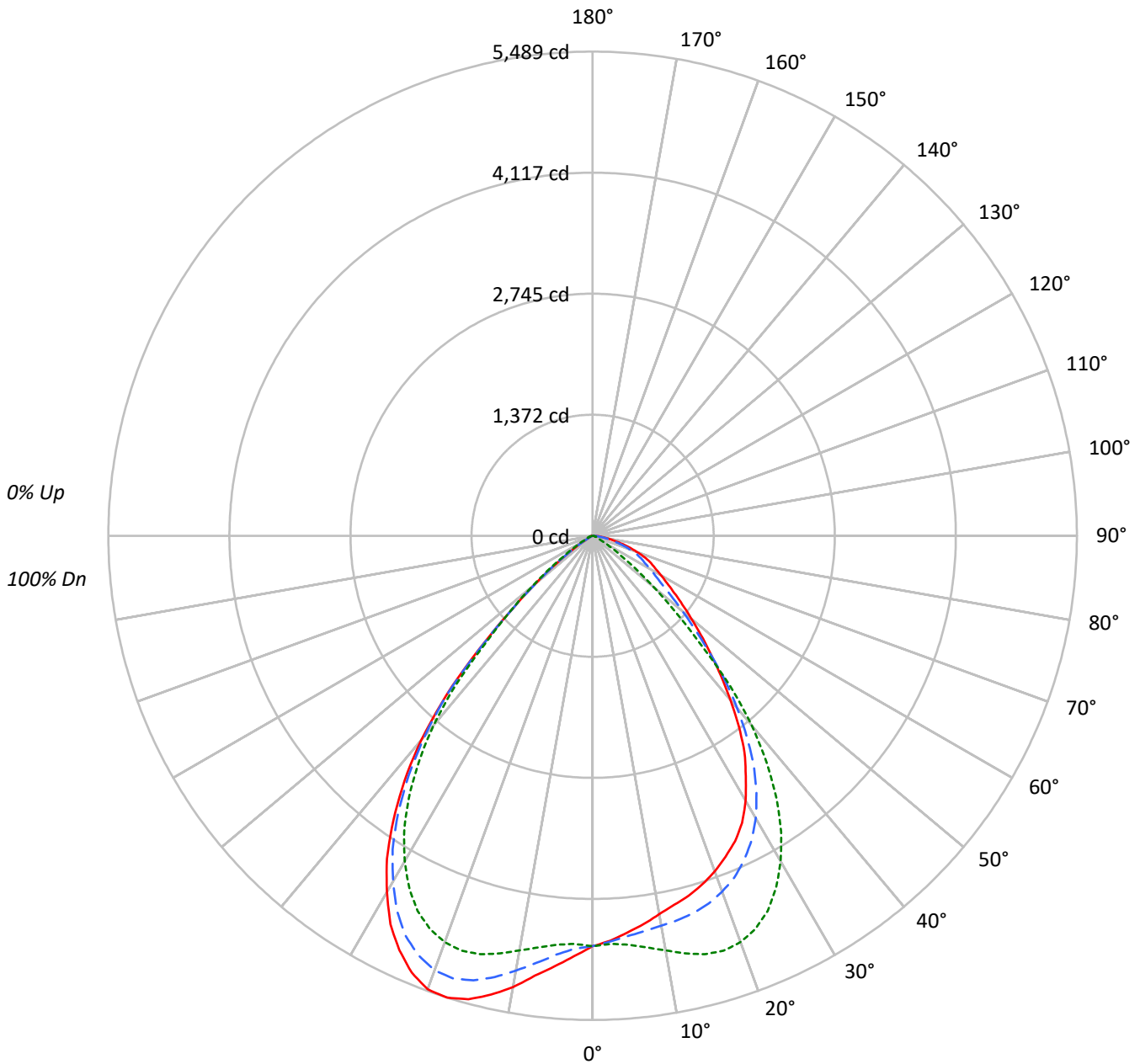
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	303558	303558	303558
5°	295687	304718	320736
10°	288499	316197	344193
15°	285122	331692	367442
20°	281043	340334	379866
25°	275062	337826	373041
30°	261377	321033	351189
35°	239139	289443	313543
40°	206850	239051	257234
45°	174425	156775	168271
50°	148083	90748	85338
55°	128519	43507	32883
60°	116076	20329	8116
65°	112615	11671	2748
70°	100983	9328	2556
75°	82956	6755	1134
80°	61841	3344	0
85°	53222	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.4	5.3
10°-20°	1369.7	16.1
20°-30°	2092.8	24.6
30°-40°	2188.8	25.7
40°-50°	1419.9	16.7
50°-60°	563.8	6.6
60°-70°	267.4	3.1
70°-80°	127.2	1.5
80°-90°	25.9	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°	3911.9	46.0
0°-40°	6100.7	71.7
0°-60°	8084.4	95.1
0°-90°	8505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4653	4653	4653	4653	4653	
5°	4515	4555	4653	4768	4898	426
15°	4221	4426	4911	5218	5440	1190
25°	3821	4061	4693	5009	5182	1750
35°	3003	3185	3634	3848	3937	1857
45°	1890	1873	1699	1802	1824	1471
55°	1130	961	382	298	289	1024
65°	730	605	76	18	18	713
75°	329	267	27	9	4	355
85°	71	44	0	0	0	83
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°	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9
2.5°	4595.1	4604.0	4555.0	4541.8	4577.2	4590.6	4595.1	4581.8	4586.1	4604.0	4604.0
5°	4515.0	4523.9	4479.4	4466.1	4501.6	4510.5	4523.9	4519.5	4532.8	4559.5	4555.0
7.5°	4439.4	4452.8	4403.8	4386.0	4430.5	4452.8	4461.6	4461.6	4479.4	4515.0	4519.5
10°	4354.9	4372.6	4328.1	4319.2	4368.2	4390.5	4394.9	4403.8	4430.5	4479.4	4488.4
12.5°	4283.8	4301.5	4270.4	4257.0	4310.4	4332.6	4341.5	4359.4	4390.5	4452.8	4461.6
15°	4221.4	4234.8	4199.1	4190.2	4243.6	4270.4	4274.8	4301.5	4341.5	4412.8	4426.0
17.5°	4141.4	4150.2	4123.5	4114.6	4168.0	4194.8	4199.1	4230.4	4279.2	4350.4	4372.6
20°	4048.0	4056.9	4030.1	4021.2	4074.6	4105.8	4110.2	4136.9	4194.8	4270.4	4292.6
22.5°	3936.8	3954.5	3923.4	3914.5	3967.9	3994.5	4007.9	4030.1	4088.0	4163.6	4194.8
25°	3821.1	3821.1	3798.9	3794.4	3843.4	3874.5	3870.0	3901.1	3959.0	4034.6	4061.2
27.5°	3669.9	3665.4	3643.1	3638.8	3692.1	3718.8	3709.9	3741.0	3794.4	3870.0	3896.8
30°	3469.6	3478.5	3447.4	3438.5	3483.0	3527.5	3523.0	3554.1	3607.5	3678.8	3696.5
32.5°	3229.5	3238.4	3233.9	3220.5	3260.6	3282.9	3296.1	3318.4	3362.9	3438.5	3456.4
35°	3002.6	2989.2	2971.5	2971.5	3011.5	3047.1	3033.8	3060.4	3104.9	3180.5	3185.0
37.5°	2722.4	2717.9	2709.0	2700.1	2744.6	2753.5	2757.9	2775.8	2815.8	2878.0	2869.1
40°	2428.8	2433.2	2428.8	2411.0	2437.6	2473.2	2468.8	2477.8	2513.2	2557.8	2544.4
42.5°	2153.0	2153.0	2153.0	2135.1	2166.4	2184.1	2193.0	2188.5	2197.5	2237.5	2219.8
45°	1890.5	1895.0	1890.5	1886.1	1890.5	1899.4	1890.5	1886.1	1886.1	1899.4	1872.8
47.5°	1663.6	1663.6	1650.4	1637.0	1650.4	1654.8	1641.4	1628.1	1623.6	1619.1	1574.8
50°	1459.0	1454.6	1450.1	1427.9	1441.2	1445.8	1427.9	1419.0	1401.2	1379.0	1325.6
52.5°	1281.1	1276.6	1272.2	1250.0	1258.9	1263.4	1245.5	1227.8	1205.5	1187.8	1121.0
55°	1129.9	1125.4	1125.4	1112.1	1103.1	1112.1	1094.2	1080.9	1049.8	1027.5	960.9
57.5°	1000.9	1000.9	992.0	978.6	983.1	983.1	965.2	947.5	920.8	894.1	840.8
60°	889.6	889.6	889.6	876.2	876.2	876.2	867.4	849.6	827.4	800.8	747.2
62.5°	800.8	800.8	796.2	782.9	787.4	787.4	778.5	760.6	738.4	720.6	667.2
65°	729.5	729.5	729.5	716.1	716.1	720.6	711.8	693.9	676.1	653.9	605.0
67.5°	640.5	636.1	636.1	627.2	631.6	636.1	627.2	613.9	591.6	578.2	533.8
70°	529.4	533.8	538.2	524.9	529.4	529.4	524.9	511.5	498.2	484.9	444.9
72.5°	431.5	431.5	427.0	422.6	422.6	427.0	418.1	404.8	395.9	387.0	355.9
75°	329.1	324.8	329.1	320.2	320.2	320.2	311.4	306.9	302.5	289.1	266.9
77.5°	240.2	235.8	235.8	226.9	231.2	231.2	226.9	218.0	209.1	204.6	186.9
80°	164.6	164.6	164.6	160.1	160.1	155.8	155.8	151.2	142.4	137.9	129.0
82.5°	111.2	111.2	111.2	106.8	106.8	106.8	102.2	97.9	93.4	89.0	80.1
85°	71.1	71.1	71.1	66.8	66.8	66.8	62.2	62.2	57.9	53.4	44.5
87.5°	40.0	40.0	40.0	35.6	35.6	35.6	35.6	35.6	31.1	26.8	22.2
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°	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9
2.5°	4635.1	4572.9	4612.9	4612.9	4599.5	4635.1	4657.4	4675.1	4670.8	4630.6	4626.2
5°	4599.5	4546.1	4590.6	4595.1	4581.8	4630.6	4661.8	4684.0	4688.5	4652.9	4657.4
7.5°	4572.9	4528.4	4586.1	4604.0	4599.5	4644.0	4679.6	4715.1	4733.0	4706.2	4710.8
10°	4559.5	4523.9	4586.1	4612.9	4617.4	4666.2	4719.6	4768.5	4790.8	4773.0	4786.4
12.5°	4541.8	4519.5	4590.6	4630.6	4648.5	4697.4	4764.1	4822.0	4857.5	4848.6	4875.4
15°	4523.9	4506.1	4590.6	4648.5	4670.8	4715.1	4790.8	4875.4	4915.4	4910.9	4946.5
17.5°	4479.4	4475.0	4564.0	4626.2	4657.4	4710.8	4781.9	4884.2	4924.2	4933.1	4977.6
20°	4408.2	4408.2	4506.1	4572.9	4608.4	4657.4	4746.4	4844.1	4893.1	4902.0	4951.0
22.5°	4310.4	4319.2	4412.8	4479.4	4532.8	4568.4	4661.8	4764.1	4808.6	4822.0	4875.4
25°	4181.4	4190.2	4279.2	4346.0	4403.8	4443.9	4532.8	4626.2	4679.6	4693.0	4733.0
27.5°	4012.4	4030.1	4114.6	4181.4	4230.4	4257.0	4350.4	4448.2	4488.4	4501.6	4541.8
30°	3816.6	3821.1	3905.6	3963.4	4012.4	4034.6	4114.6	4217.0	4248.1	4261.5	4319.2
32.5°	3576.4	3572.0	3652.0	3705.4	3745.5	3772.1	3856.6	3923.4	3954.5	3976.8	4007.9
35°	3287.2	3282.9	3340.6	3403.0	3434.1	3443.0	3527.5	3598.6	3616.5	3634.2	3674.2
37.5°	2962.5	2962.5	3011.5	3042.6	3078.2	3091.5	3131.6	3211.6	3242.8	3238.4	3269.5
40°	2620.0	2602.2	2637.9	2669.0	2677.9	2682.4	2722.4	2784.6	2806.9	2806.9	2829.1
42.5°	2259.8	2233.0	2237.5	2255.2	2264.1	2233.0	2259.8	2299.8	2286.4	2304.2	2308.6
45°	1877.1	1837.1	1819.4	1779.4	1788.2	1757.1	1739.2	1748.1	1743.8	1699.2	1708.1
47.5°	1565.8	1494.6	1463.5	1405.6	1392.4	1356.8	1334.5	1294.5	1258.9	1258.9	1236.6
50°	1303.4	1232.1	1169.9	1103.1	1080.9	1049.8	1000.9	947.5	920.8	894.1	871.9
52.5°	1094.2	1018.6	943.0	871.9	840.8	800.8	734.0	680.6	631.6	605.0	578.2
55°	925.2	840.8	760.6	685.0	645.0	605.0	538.2	476.0	418.1	382.5	360.2
57.5°	796.2	716.1	631.6	551.6	516.0	471.5	400.4	333.6	280.2	240.2	218.0
60°	702.9	622.8	547.1	462.6	427.0	382.5	306.9	244.6	191.2	155.8	129.0
62.5°	622.8	551.6	471.5	395.9	360.2	315.9	244.6	182.4	133.5	97.9	75.6
65°	564.9	493.8	427.0	351.4	320.2	275.8	209.1	151.2	106.8	75.6	53.4
67.5°	498.2	435.9	369.2	306.9	275.8	240.2	177.9	129.0	89.0	62.2	44.5
70°	418.1	369.2	311.4	253.5	231.2	200.1	146.8	106.8	71.1	48.9	35.6
72.5°	333.6	293.6	249.1	204.6	186.9	155.8	120.1	84.5	53.4	35.6	26.8
75°	253.5	222.4	186.9	155.8	137.9	120.1	89.0	62.2	40.0	26.8	17.8
77.5°	173.5	160.1	133.5	106.8	97.9	84.5	57.9	40.0	26.8	17.8	8.9
80°	120.1	106.8	89.0	71.1	62.2	53.4	35.6	26.8	13.4	8.9	4.5
82.5°	75.6	62.2	53.4	44.5	40.0	31.1	22.2	13.4	8.9	4.5	4.5
85°	40.0	35.6	31.1	22.2	22.2	17.8	13.4	8.9	4.5	0.0	0.0
87.5°	22.2	17.8	13.4	8.9	8.9	4.5	4.5	4.5	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°	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9
2.5°	4679.6	4679.6	4675.1	4728.5	4666.2	4728.5	4697.4	4728.5	4684.0	4679.6	4684.0
5°	4715.1	4728.5	4733.0	4781.9	4724.1	4799.8	4773.0	4799.8	4768.5	4777.5	4790.8
7.5°	4786.4	4808.6	4804.1	4866.4	4808.6	4893.1	4875.4	4915.4	4884.2	4893.1	4910.9
10°	4866.4	4893.1	4897.5	4959.9	4906.5	5008.8	4986.5	5031.0	5004.4	5017.6	5039.9
12.5°	4959.9	4991.0	4995.4	5066.6	5008.8	5115.5	5102.1	5146.6	5124.4	5137.8	5164.5
15°	5031.0	5075.5	5084.4	5155.5	5093.2	5204.5	5195.6	5253.4	5217.9	5240.1	5262.4
17.5°	5066.6	5106.6	5124.4	5191.1	5137.8	5249.0	5240.1	5289.0	5262.4	5284.6	5311.2
20°	5044.4	5093.2	5106.6	5173.4	5120.0	5231.1	5217.9	5266.8	5240.1	5257.9	5284.6
22.5°	4964.2	5013.2	5031.0	5093.2	5044.4	5146.6	5142.2	5186.8	5151.1	5173.4	5195.6
25°	4822.0	4875.4	4884.2	4942.0	4888.6	4995.4	4986.5	5035.5	5008.8	5022.1	5053.2
27.5°	4617.4	4679.6	4693.0	4741.9	4701.9	4790.8	4790.8	4830.9	4799.8	4799.8	4830.9
30°	4372.6	4435.0	4443.9	4483.9	4448.2	4528.4	4532.8	4572.9	4523.9	4550.6	4555.0
32.5°	4074.6	4114.6	4141.4	4177.0	4123.5	4225.9	4212.5	4243.6	4217.0	4217.0	4239.2
35°	3714.4	3763.2	3776.6	3821.1	3776.6	3856.6	3856.6	3874.5	3847.8	3847.8	3883.4
37.5°	3322.9	3358.5	3362.9	3407.4	3371.8	3438.5	3434.1	3447.4	3420.8	3438.5	3438.5
40°	2864.8	2891.4	2900.2	2922.5	2918.1	2967.0	2962.5	2971.5	2958.1	2962.5	2971.5
42.5°	2330.9	2366.5	2384.2	2402.1	2375.4	2442.1	2428.8	2442.1	2437.6	2442.1	2455.5
45°	1717.0	1743.8	1757.1	1761.5	1752.6	1792.6	1823.8	1797.1	1801.5	1792.6	1810.5
47.5°	1241.1	1245.5	1236.6	1263.4	1241.1	1258.9	1267.8	1272.2	1245.5	1241.1	1258.9
50°	849.6	871.9	840.8	854.1	849.6	867.4	858.5	863.0	836.2	849.6	840.8
52.5°	564.9	560.5	551.6	556.0	547.1	547.1	547.1	556.0	538.2	529.4	520.5
55°	342.5	333.6	315.9	311.4	311.4	315.9	306.9	298.0	298.0	293.6	293.6
57.5°	200.1	186.9	177.9	173.5	164.6	160.1	155.8	155.8	146.8	146.8	146.8
60°	111.2	97.9	89.0	80.1	80.1	75.6	71.1	66.8	66.8	66.8	62.2
62.5°	57.9	48.9	40.0	35.6	35.6	31.1	26.8	26.8	26.8	26.8	22.2
65°	40.0	31.1	26.8	22.2	22.2	17.8	17.8	17.8	17.8	17.8	17.8
67.5°	31.1	26.8	22.2	17.8	17.8	17.8	13.4	13.4	13.4	13.4	13.4
70°	26.8	17.8	17.8	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
72.5°	17.8	17.8	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
75°	13.4	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0
80°	4.5	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: P252194

CATALOG NUMBER: LE_6B50D010R EC6B30508030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9	4652.9
2.5°	4724.1	4719.6	4724.1	4733.0	4715.1	4768.5	4741.9	4768.5
5°	4826.4	4830.9	4835.2	4848.6	4826.4	4893.1	4857.5	4897.5
7.5°	4959.9	4964.2	4968.8	4982.1	4968.8	5035.5	4995.4	5031.0
10°	5097.8	5106.6	5106.6	5128.9	5115.5	5177.8	5151.1	5195.6
12.5°	5226.8	5235.6	5244.5	5257.9	5249.0	5315.8	5293.5	5329.0
15°	5329.0	5346.9	5351.2	5369.1	5360.1	5431.4	5404.6	5440.2
17.5°	5378.0	5395.8	5395.8	5418.0	5409.1	5484.8	5449.1	5489.1
20°	5351.2	5364.6	5369.1	5391.4	5382.4	5458.0	5422.5	5471.4
22.5°	5266.8	5271.2	5275.6	5297.9	5293.5	5360.1	5329.0	5360.1
25°	5111.1	5124.4	5120.0	5137.8	5137.8	5191.1	5155.5	5182.2
27.5°	4888.6	4902.0	4902.0	4924.2	4906.5	4959.9	4924.2	4964.2
30°	4617.4	4630.6	4621.8	4639.5	4621.8	4675.1	4648.5	4661.8
32.5°	4292.6	4292.6	4297.0	4301.5	4292.6	4341.5	4314.9	4341.5
35°	3905.6	3914.5	3919.0	3923.4	3914.5	3950.1	3919.0	3936.8
37.5°	3469.6	3491.9	3487.5	3491.9	3478.5	3523.0	3496.4	3505.2
40°	3002.6	3002.6	2998.1	3007.0	2993.8	3029.2	3011.5	3020.4
42.5°	2459.9	2473.2	2455.5	2477.8	2442.1	2491.0	2473.2	2459.9
45°	1846.0	1828.2	1823.8	1828.2	1814.9	1819.4	1832.8	1823.8
47.5°	1258.9	1258.9	1250.0	1236.6	1254.4	1258.9	1241.1	1241.1
50°	845.1	845.1	836.2	831.9	840.8	836.2	827.4	840.8
52.5°	538.2	520.5	520.5	529.4	520.5	511.5	524.9	516.0
55°	293.6	284.8	284.8	293.6	284.8	284.8	280.2	289.1
57.5°	142.4	146.8	142.4	142.4	142.4	142.4	137.9	142.4
60°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
62.5°	26.8	26.8	22.2	22.2	22.2	22.2	22.2	22.2
65°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
67.5°	13.4	13.4	13.4	13.4	13.4	17.8	13.4	13.4
70°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
72.5°	13.4	13.4	17.8	17.8	17.8	17.8	17.8	17.8
75°	8.9	8.9	8.9	4.5	4.5	4.5	4.5	4.5
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)