

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: P252235

Luminaire Tested: **LE\_6B10D010 EC6B10208040 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B10D010 EC6B10208040 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1272.5 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

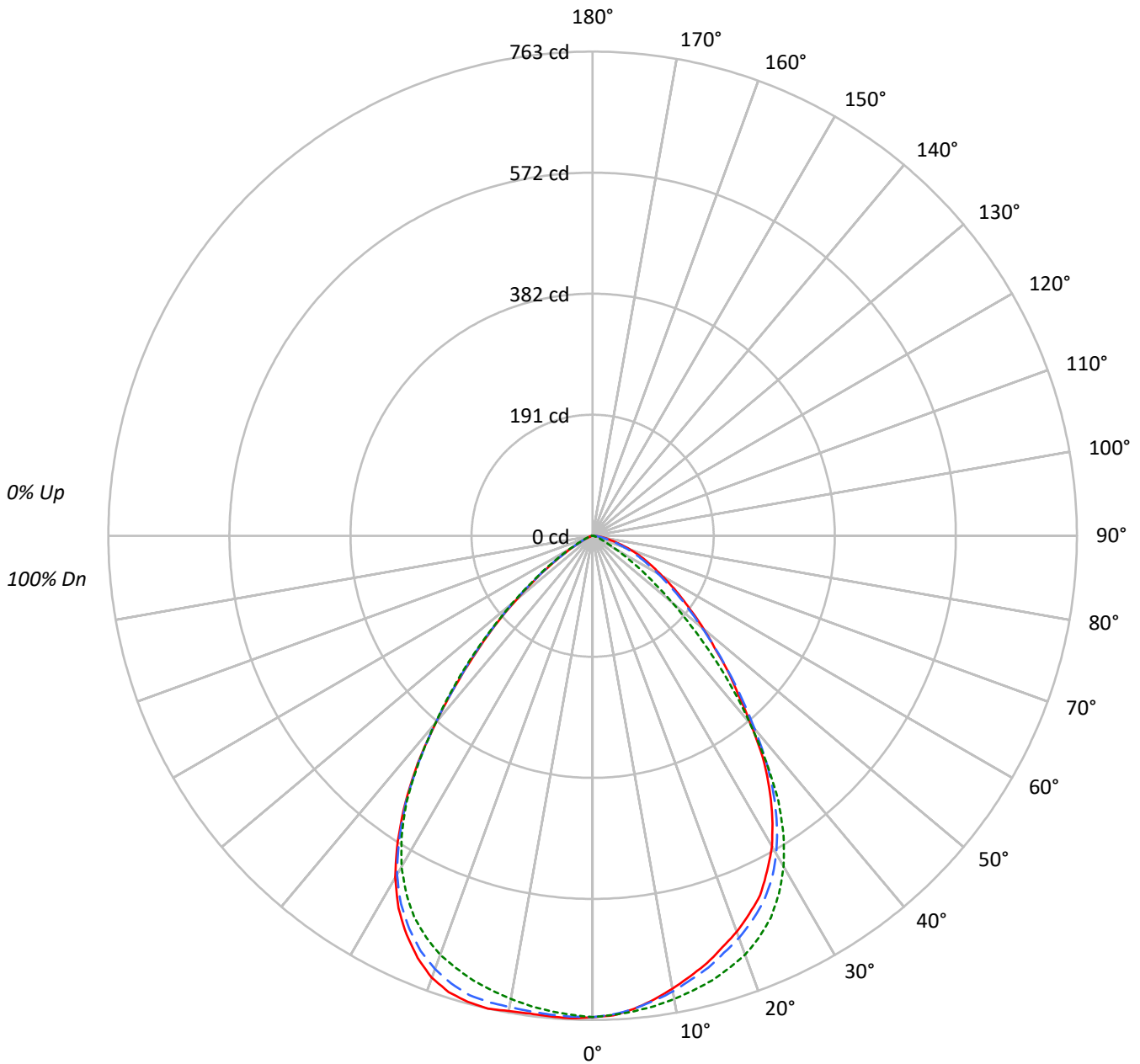
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252235

CATALOG NUMBER: LE\_6B10D010 EC6B10208040 6LBSW1H

### Luminous Intensity Polar Plot





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CATALOG NUMBER: LE\_6B10D010 EC6B10208040 6LBSW1H

**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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	49485	49485	49485
5°	49013	49255	49798
10°	48003	49096	50374
15°	47084	49002	51359
20°	46107	48780	51453
25°	44976	47805	49922
30°	42578	45343	46857
35°	38667	40634	41009
40°	33002	32840	32695
45°	27725	24598	23841
50°	23151	16645	15813
55°	19473	10214	9270
60°	16493	5376	4671
65°	14279	2840	2254
70°	11865	1736	1221
75°	8772	1160	706
80°	6913	714	338
85°	5539	674	0



TEST NUMBER: P252235

CATALOG NUMBER: LE\_6B10D010 EC6B10208040 6LBSW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	5.6
10°-20°	204.7	16.1
20°-30°	302.2	23.8
30°-40°	311.5	24.5
40°-50°	215.1	16.9
50°-60°	106.0	8.3
60°-70°	43.0	3.4
70°-80°	15.3	1.2
80°-90°	3.2	0.2
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°	578.4	45.5
0°-40°	889.9	69.9
0°-60°	1211.1	95.2
0°-90°	1272.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	748	748	752	758	760	71
15°	697	704	726	749	760	196
25°	625	637	664	683	694	286
35°	486	497	510	513	515	301
45°	300	302	267	263	258	232
55°	171	165	90	84	82	155
65°	92	83	18	15	15	92
75°	35	29	5	3	3	39
85°	7	6	1	0	0	9
90°	0	0	0	0	0	



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CATALOG NUMBER: LE\_6B10D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5
2.5°	756.6	753.9	755.8	752.1	756.6	752.1	753.0	753.9	753.0	753.9	754.9
5°	748.4	745.6	748.4	743.9	748.4	745.6	745.6	746.6	746.6	747.5	748.4
7.5°	737.4	734.6	737.4	732.9	738.4	735.6	735.6	737.4	736.5	737.4	739.2
10°	724.6	720.9	723.6	720.9	726.4	722.8	724.6	724.6	724.6	727.4	729.1
12.5°	710.9	707.2	710.9	706.2	711.8	709.0	710.0	712.6	713.6	715.4	716.4
15°	697.1	692.5	694.4	691.6	697.1	694.4	695.2	699.0	699.0	701.8	704.5
17.5°	679.8	676.0	679.8	676.0	680.6	678.8	680.6	683.4	683.4	686.1	688.9
20°	664.1	660.5	663.2	660.5	666.0	663.2	664.1	667.8	668.8	671.5	674.2
22.5°	644.9	642.1	644.0	641.2	646.8	644.9	645.9	649.5	650.4	652.2	656.8
25°	624.8	619.2	622.0	620.1	625.6	622.9	624.8	628.4	630.2	633.0	636.6
27.5°	595.4	592.6	594.5	594.5	599.1	596.4	597.2	600.9	603.6	606.4	611.0
30°	565.2	560.6	562.5	563.4	567.0	565.2	567.0	570.8	571.6	575.2	579.0
32.5°	526.8	524.9	528.5	526.8	528.5	528.5	529.5	532.2	534.0	535.9	540.5
35°	485.5	481.9	485.5	483.6	488.2	485.5	488.2	491.0	491.0	494.6	497.4
37.5°	440.6	436.0	437.9	437.9	439.8	438.8	438.8	443.4	444.2	447.0	449.8
40°	387.5	385.6	389.4	388.4	389.4	389.4	390.2	393.0	394.9	395.8	396.6
42.5°	339.9	340.8	341.6	341.6	341.6	341.6	341.6	345.4	344.4	347.1	348.1
45°	300.5	296.8	298.6	297.8	300.5	297.8	300.5	303.2	301.4	304.1	302.2
47.5°	260.1	260.1	260.1	259.2	261.1	260.1	262.0	262.9	262.9	262.9	262.0
50°	228.1	225.4	226.2	226.2	227.1	226.2	228.1	229.0	229.0	227.1	223.5
52.5°	197.0	196.0	196.0	197.9	197.9	197.0	197.0	197.0	197.0	194.2	192.4
55°	171.2	169.5	170.4	170.4	170.4	170.4	171.2	170.4	170.4	167.6	164.9
57.5°	148.4	146.6	146.6	146.6	147.5	146.6	146.6	146.6	145.6	142.9	139.2
60°	126.4	125.5	126.4	126.4	127.4	126.4	126.4	126.4	124.6	121.9	118.1
62.5°	108.1	108.1	108.1	109.0	109.0	108.1	108.1	107.1	106.2	102.6	98.9
65°	92.5	91.6	92.5	92.5	93.4	93.4	92.5	91.6	90.8	87.0	83.4
67.5°	77.0	76.0	77.0	77.0	77.9	77.0	77.0	77.0	74.2	72.4	68.8
70°	62.2	61.4	61.4	61.4	62.2	60.5	61.4	61.4	59.5	56.8	53.1
72.5°	47.6	47.6	47.6	47.6	47.6	47.6	46.8	46.8	44.9	42.1	40.2
75°	34.8	34.8	35.8	35.8	34.8	34.8	34.8	33.9	33.0	31.1	29.4
77.5°	25.6	25.6	25.6	25.6	24.8	24.8	24.8	23.9	22.9	22.0	20.1
80°	18.4	18.4	18.4	17.4	18.4	17.4	17.4	17.4	15.6	14.6	13.8
82.5°	12.9	11.9	11.9	11.9	11.9	11.9	11.9	11.0	11.0	10.1	9.1
85°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	6.4	5.5	5.5
87.5°	3.6	4.6	4.6	4.6	4.6	4.6	4.6	3.6	3.6	3.6	2.8
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: P252235

CATALOG NUMBER: LE\_6B10D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5
2.5°	754.9	754.9	756.6	753.9	758.5	755.8	754.9	759.4	756.6	755.8	757.6
5°	748.4	749.4	750.2	748.4	753.0	750.2	750.2	754.9	753.0	752.1	754.9
7.5°	740.1	741.1	742.9	742.0	745.6	743.9	744.8	749.4	747.5	747.5	750.2
10°	730.1	731.9	733.8	733.8	738.4	736.5	736.5	742.0	740.1	741.1	744.8
12.5°	718.1	720.9	723.6	724.6	729.1	726.4	727.4	733.8	732.9	733.8	737.4
15°	705.4	709.0	711.8	711.8	717.2	714.5	717.2	723.6	721.9	725.5	730.1
17.5°	690.8	694.4	698.0	699.0	704.5	702.6	706.2	712.6	712.6	714.5	720.0
20°	677.0	681.5	683.4	686.1	691.6	690.8	692.5	699.9	699.9	702.6	708.1
22.5°	658.6	663.2	666.9	669.6	674.2	674.2	677.0	683.4	683.4	685.2	690.8
25°	638.5	644.0	646.8	649.5	654.0	653.1	655.9	661.4	662.2	664.1	669.6
27.5°	612.9	617.4	621.1	622.9	629.4	625.6	628.4	634.9	633.9	635.8	640.4
30°	580.8	585.4	589.0	589.0	594.5	594.5	597.2	600.0	600.0	601.9	605.5
32.5°	543.2	548.8	548.8	551.5	555.1	551.5	555.1	558.8	557.0	559.8	562.5
35°	500.1	502.9	503.9	503.9	506.6	505.6	504.8	507.5	505.6	510.2	513.0
37.5°	448.0	451.6	449.8	451.6	450.8	448.0	448.0	452.5	448.9	449.8	452.5
40°	397.6	397.6	396.6	392.1	393.0	390.2	389.4	390.2	386.6	385.6	389.4
42.5°	345.4	344.4	341.6	335.2	336.2	331.6	328.0	328.0	326.1	325.2	326.1
45°	298.6	295.9	291.2	284.0	282.1	278.5	271.1	269.4	266.6	266.6	267.5
47.5°	255.6	251.9	244.6	236.4	231.8	227.1	219.9	217.1	212.5	210.8	212.5
50°	219.9	213.5	204.2	192.4	187.8	182.2	175.0	170.4	165.8	164.0	163.0
52.5°	186.9	177.8	168.5	153.9	150.2	144.8	134.6	130.1	125.5	121.9	121.9
55°	158.5	150.2	137.4	123.6	118.1	112.6	102.6	96.1	91.6	89.8	88.0
57.5°	132.9	123.6	111.8	97.1	91.6	86.1	76.0	69.6	65.0	62.2	60.5
60°	111.8	101.6	89.8	77.0	70.5	65.0	55.0	48.5	44.0	41.2	39.4
62.5°	91.6	83.4	71.5	59.5	54.0	48.5	40.2	33.9	29.4	27.5	24.8
65°	77.0	68.8	57.8	47.6	43.0	37.5	30.2	24.8	21.1	18.4	16.5
67.5°	62.2	55.9	46.8	37.5	33.0	29.4	22.9	18.4	14.6	12.9	11.9
70°	49.5	43.0	35.8	28.4	25.6	22.0	17.4	12.9	11.0	9.1	8.2
72.5°	36.6	32.0	26.6	21.1	18.4	16.5	11.9	10.1	7.4	6.4	5.5
75°	26.6	22.9	19.2	14.6	12.9	11.9	9.1	6.4	5.5	4.6	3.6
77.5°	18.4	16.5	12.9	10.1	9.1	8.2	6.4	4.6	3.6	2.8	2.8
80°	11.9	10.1	8.2	6.4	6.4	5.5	3.6	2.8	2.8	1.9	1.9
82.5°	7.4	6.4	5.5	4.6	3.6	3.6	2.8	1.9	1.9	0.9	0.9
85°	4.6	3.6	2.8	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.9
87.5°	1.9	1.9	1.9	0.9	0.9	0.9	0.9	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: P252235

CATALOG NUMBER: LE\_6B10D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5
2.5°	757.6	757.6	759.4	756.6	758.5	758.5	760.4	756.6	758.5	759.4	761.2
5°	753.9	754.9	756.6	755.8	756.6	756.6	758.5	753.9	757.6	757.6	760.4
7.5°	750.2	750.2	752.1	751.1	753.0	753.9	755.8	752.1	755.8	755.8	758.5
10°	745.6	745.6	748.4	747.5	750.2	751.1	753.9	750.2	753.9	754.9	757.6
12.5°	739.2	740.1	742.9	742.9	745.6	747.5	750.2	748.4	753.0	753.9	757.6
15°	731.9	733.8	737.4	736.5	739.2	742.0	745.6	742.9	749.4	751.1	754.9
17.5°	722.8	724.6	727.4	727.4	730.1	731.9	736.5	734.6	740.1	741.1	745.6
20°	709.0	711.8	715.4	714.5	717.2	719.1	722.8	720.9	726.4	728.2	732.9
22.5°	692.5	694.4	697.1	697.1	699.9	701.8	705.4	702.6	708.1	709.0	712.6
25°	670.5	672.4	674.2	675.1	677.9	678.8	680.6	678.8	683.4	684.2	688.9
27.5°	642.1	643.1	645.9	645.9	647.6	648.5	651.2	647.6	654.0	654.0	656.8
30°	608.2	607.4	611.0	609.1	611.0	611.0	613.8	611.9	616.5	614.6	617.4
32.5°	563.4	565.2	565.2	563.4	567.0	566.1	566.1	564.2	567.0	568.0	569.8
35°	511.1	513.9	513.9	514.9	515.8	513.0	513.9	508.4	513.0	513.9	514.9
37.5°	454.4	451.6	453.5	450.8	455.2	449.8	449.8	446.1	449.8	449.8	450.8
40°	389.4	388.4	390.2	388.4	387.5	386.6	384.8	382.0	385.6	383.9	386.6
42.5°	328.0	327.0	327.0	325.2	324.2	324.2	322.5	320.6	319.8	319.8	324.2
45°	264.8	266.6	264.8	263.9	265.6	263.9	264.8	261.1	262.9	261.1	262.9
47.5°	211.6	212.5	210.8	208.9	211.6	208.9	208.9	206.1	209.8	209.8	208.0
50°	164.0	163.0	161.2	163.0	162.1	162.1	162.1	159.4	161.2	158.5	160.2
52.5°	120.9	120.0	120.0	119.1	120.0	119.1	119.1	118.1	118.1	117.2	118.1
55°	88.0	87.0	85.2	85.2	85.2	86.1	85.2	84.2	84.2	83.4	84.2
57.5°	59.5	57.8	57.8	57.8	57.8	56.8	56.8	55.9	56.8	55.9	56.8
60°	38.5	38.5	36.6	36.6	36.6	36.6	36.6	35.8	36.6	36.6	36.6
62.5°	23.9	23.9	22.9	22.0	22.9	22.0	22.0	22.0	22.9	22.0	22.9
65°	15.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
67.5°	11.0	10.1	10.1	10.1	10.1	10.1	10.1	9.1	10.1	10.1	10.1
70°	7.4	7.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	3.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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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CATALOG NUMBER: LE\_6B10D010 EC6B10208040 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5
2.5°	758.5	759.4	757.6	758.5	756.6	758.5	759.4	761.2
5°	756.6	757.6	755.8	757.6	755.8	757.6	758.5	760.4
7.5°	754.9	756.6	754.9	756.6	754.9	756.6	757.6	759.4
10°	754.9	757.6	755.8	758.5	755.8	757.6	759.4	760.4
12.5°	754.9	757.6	756.6	758.5	757.6	759.4	761.2	763.1
15°	753.0	755.8	753.9	756.6	755.8	756.6	760.4	760.4
17.5°	742.9	745.6	745.6	747.5	747.5	750.2	752.1	753.9
20°	730.1	732.9	731.9	734.6	734.6	737.4	739.2	741.1
22.5°	710.9	714.5	713.6	716.4	715.4	717.2	720.9	720.0
25°	686.1	690.8	689.8	691.6	690.8	690.8	692.5	693.5
27.5°	655.9	658.6	657.8	659.5	657.8	659.5	661.4	662.2
30°	616.5	618.4	617.4	618.4	617.4	619.2	620.1	622.0
32.5°	568.9	571.6	568.9	570.8	569.8	569.8	573.5	571.6
35°	512.1	513.0	513.9	513.9	512.1	513.0	514.9	514.9
37.5°	448.9	453.5	448.0	450.8	449.8	449.8	449.8	452.5
40°	382.9	383.9	382.0	382.0	382.0	381.1	384.8	383.9
42.5°	320.6	321.5	320.6	317.9	318.8	318.8	321.5	317.9
45°	260.1	262.0	261.1	261.1	259.2	259.2	260.1	258.4
47.5°	206.1	208.0	205.2	206.1	204.2	206.1	205.2	207.0
50°	156.6	158.5	157.5	158.5	158.5	156.6	159.4	155.8
52.5°	117.2	118.1	117.2	116.4	115.4	115.4	117.2	116.4
55°	83.4	82.5	82.5	82.5	83.4	83.4	82.5	81.5
57.5°	55.9	55.9	55.0	55.0	55.9	54.0	55.0	54.0
60°	35.8	35.8	35.8	35.8	34.8	35.8	35.8	35.8
62.5°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
65°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
67.5°	9.1	10.1	10.1	10.1	9.1	9.1	9.1	9.1
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)