

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: P252233

Luminaire Tested: **LE\_6B10D010 EC6B10208030 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252233  
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 EC6B10208030 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1227.5 lumens  
Efficiency: N/A  
Efficacy: 122.7 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

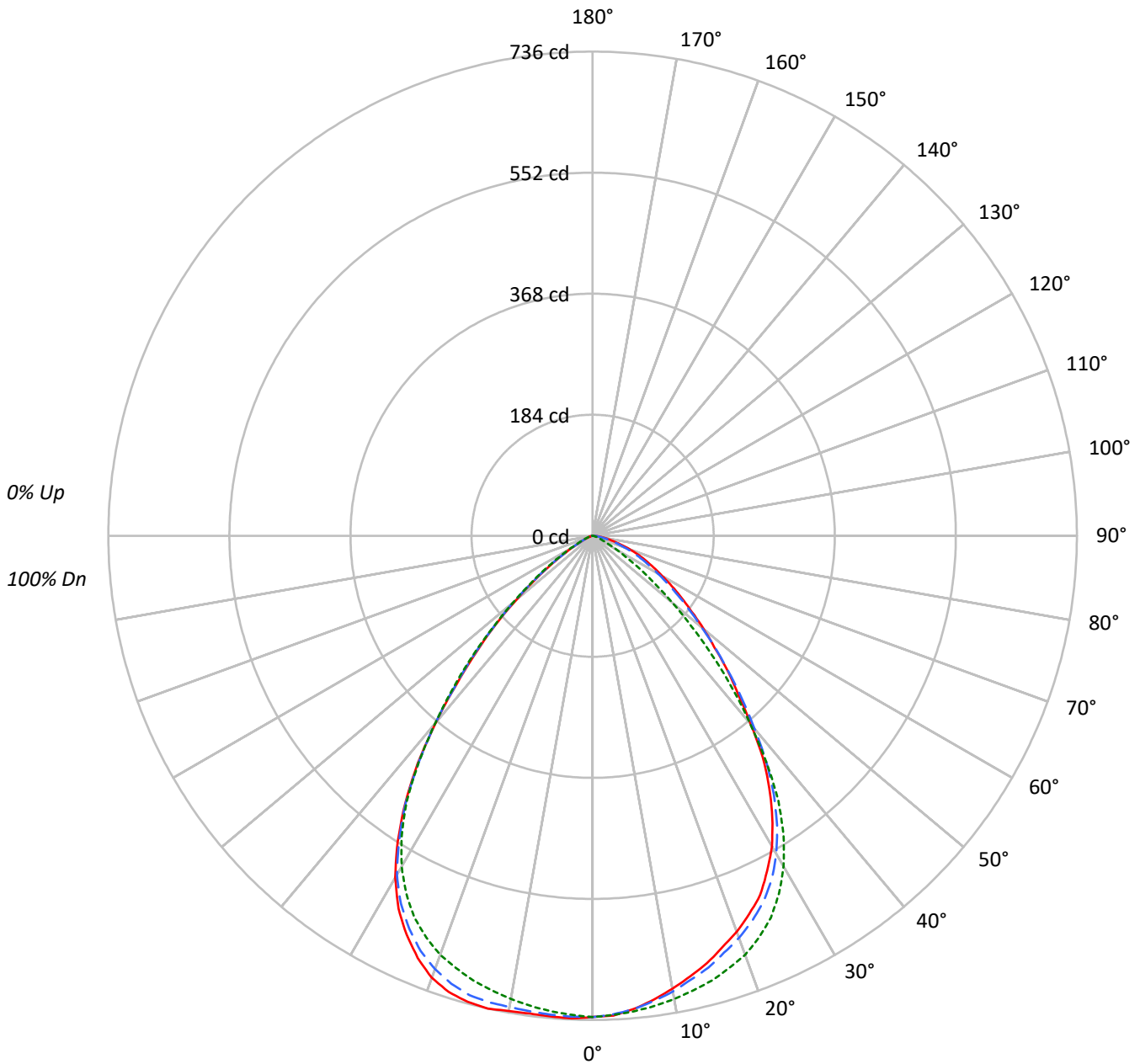
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252233

CATALOG NUMBER: LE\_6B10D010 EC6B10208030 6LBSW1H

### Luminous Intensity Polar Plot





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CATALOG NUMBER: LE\_6B10D010 EC6B10208030 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°	47730	47730	47730
5°	47284	47513	48030
10°	46307	47360	48586
15°	45422	47273	49535
20°	44475	47058	49634
25°	43378	46114	48151
30°	41072	43731	45200
35°	37305	39201	39551
40°	31835	31682	31528
45°	26747	23721	22992
50°	22329	16047	15245
55°	18790	9850	8940
60°	15919	5193	4502
65°	13770	2717	2177
70°	11464	1698	1164
75°	8470	1109	655
80°	6612	676	338
85°	5315	674	0



TEST NUMBER: P252233

CATALOG NUMBER: LE\_6B10D010 EC6B10208030 6LBSW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	5.6
10°-20°	197.4	16.1
20°-30°	291.5	23.8
30°-40°	300.5	24.5
40°-50°	207.5	16.9
50°-60°	102.3	8.3
60°-70°	41.4	3.4
70°-80°	14.8	1.2
80°-90°	3.1	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°	557.9	45.5
0°-40°	858.4	69.9
0°-60°	1168.2	95.2
0°-90°	1227.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1227.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	732	732	732	732	732	
5°	722	722	726	731	733	68
15°	672	680	700	723	733	189
25°	603	614	641	659	669	276
35°	468	480	492	495	497	290
45°	290	292	257	254	249	224
55°	165	159	87	81	79	149
65°	89	80	18	14	14	89
75°	34	28	4	3	3	38
85°	7	5	1	0	0	9
90°	0	0	0	0	0	



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CATALOG NUMBER: LE\_6B10D010 EC6B10208030 6LBSW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	729.9	727.2	729.0	725.5	729.9	725.5	726.4	727.2	726.4	727.2	728.1
5°	722.0	719.2	722.0	717.5	722.0	719.2	719.2	720.1	720.1	721.0	722.0
7.5°	711.4	708.8	711.4	706.9	712.2	709.6	709.6	711.4	710.5	711.4	713.1
10°	699.0	695.4	698.1	695.4	700.8	697.2	699.0	699.0	699.0	701.6	703.4
12.5°	685.8	682.1	685.8	681.2	686.6	684.0	684.9	687.5	688.4	690.1	691.0
15°	672.5	668.0	669.8	667.1	672.5	669.8	670.8	674.2	674.2	676.9	679.5
17.5°	655.6	652.1	655.6	652.1	656.5	654.8	656.5	659.2	659.2	661.9	664.5
20°	640.6	637.1	639.8	637.1	642.4	639.8	640.6	644.1	645.1	647.8	650.4
22.5°	622.1	619.5	621.2	618.5	623.9	622.1	623.0	626.5	627.4	629.1	633.6
25°	602.6	597.4	600.0	598.2	603.5	600.9	602.6	606.1	608.0	610.6	614.1
27.5°	574.4	571.8	573.5	573.5	577.9	575.2	576.1	579.6	582.4	585.0	589.4
30°	545.2	540.8	542.6	543.5	547.0	545.2	547.0	550.5	551.4	554.9	558.5
32.5°	508.1	506.4	509.9	508.1	509.9	509.9	510.8	513.4	515.1	517.0	521.4
35°	468.4	464.8	468.4	466.6	471.0	468.4	471.0	473.6	473.6	477.1	479.9
37.5°	425.0	420.6	422.4	422.4	424.1	423.2	423.2	427.8	428.6	431.2	433.9
40°	373.8	372.0	375.5	374.6	375.5	375.5	376.4	379.1	380.9	381.8	382.6
42.5°	327.9	328.8	329.6	329.6	329.6	329.6	329.6	333.1	332.2	334.9	335.8
45°	289.9	286.2	288.1	287.2	289.9	287.2	289.9	292.5	290.8	293.4	291.6
47.5°	251.0	251.0	251.0	250.1	251.9	251.0	252.8	253.6	253.6	253.6	252.8
50°	220.0	217.4	218.2	218.2	219.1	218.2	220.0	220.9	220.9	219.1	215.6
52.5°	190.0	189.1	189.1	190.9	190.9	190.0	190.0	190.0	190.0	187.4	185.6
55°	165.2	163.5	164.4	164.4	164.4	164.4	165.2	164.4	164.4	161.8	159.0
57.5°	143.1	141.4	141.4	141.4	142.2	141.4	141.4	141.4	140.5	137.9	134.4
60°	122.0	121.0	122.0	122.0	122.9	122.0	122.0	122.0	120.1	117.5	114.0
62.5°	104.2	104.2	104.2	105.1	105.1	104.2	104.2	103.4	102.5	99.0	95.4
65°	89.2	88.4	89.2	89.2	90.1	90.1	89.2	88.4	87.5	84.0	80.4
67.5°	74.2	73.4	74.2	74.2	75.1	74.2	74.2	74.2	71.6	69.8	66.2
70°	60.1	59.2	59.2	59.2	60.1	58.4	59.2	59.2	57.5	54.8	51.2
72.5°	46.0	46.0	46.0	46.0	46.0	46.0	45.1	45.1	43.2	40.6	38.9
75°	33.6	33.6	34.5	34.5	33.6	33.6	33.6	32.8	31.8	30.0	28.2
77.5°	24.8	24.8	24.8	24.8	23.9	23.9	23.9	23.0	22.1	21.2	19.5
80°	17.6	17.6	17.6	16.8	17.6	16.8	16.8	16.8	15.0	14.1	13.2
82.5°	12.4	11.5	11.5	11.5	11.5	11.5	11.5	10.6	10.6	9.8	8.9
85°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	6.1	5.2	5.2
87.5°	3.5	4.4	4.4	4.4	4.4	4.4	4.4	3.5	3.5	3.5	2.6
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: P252233

CATALOG NUMBER: LE\_6B10D010 EC6B10208030 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	728.1	728.1	729.9	727.2	731.6	729.0	728.1	732.5	729.9	729.0	730.8
5°	722.0	722.9	723.8	722.0	726.4	723.8	723.8	728.1	726.4	725.5	728.1
7.5°	714.0	714.9	716.6	715.8	719.2	717.5	718.4	722.9	721.0	721.0	723.8
10°	704.2	706.0	707.8	707.8	712.2	710.5	710.5	715.8	714.0	714.9	718.4
12.5°	692.8	695.4	698.1	699.0	703.4	700.8	701.6	707.8	706.9	707.8	711.4
15°	680.4	684.0	686.6	686.6	691.9	689.2	691.9	698.1	696.4	699.9	704.2
17.5°	666.2	669.8	673.4	674.2	679.5	677.8	681.2	687.5	687.5	689.2	694.5
20°	653.0	657.5	659.2	661.9	667.1	666.2	668.0	675.1	675.1	677.8	683.1
22.5°	635.4	639.8	643.2	646.0	650.4	650.4	653.0	659.2	659.2	661.0	666.2
25°	615.9	621.2	623.9	626.5	630.9	630.0	632.8	638.0	638.9	640.6	646.0
27.5°	591.1	595.6	599.1	600.9	607.1	603.5	606.1	612.4	611.5	613.2	617.6
30°	560.2	564.6	568.2	568.2	573.5	573.5	576.1	578.8	578.8	580.5	584.1
32.5°	524.0	529.2	529.2	532.0	535.5	532.0	535.5	539.0	537.2	539.9	542.6
35°	482.5	485.1	486.0	486.0	488.6	487.8	486.9	489.5	487.8	492.2	494.9
37.5°	432.1	435.6	433.9	435.6	434.8	432.1	432.1	436.5	433.0	433.9	436.5
40°	383.5	383.5	382.6	378.2	379.1	376.4	375.5	376.4	372.9	372.0	375.5
42.5°	333.1	332.2	329.6	323.4	324.2	319.9	316.4	316.4	314.6	313.8	314.6
45°	288.1	285.4	281.0	273.9	272.1	268.6	261.5	259.8	257.1	257.1	258.0
47.5°	246.5	243.0	235.9	228.0	223.6	219.1	212.1	209.4	205.0	203.2	205.0
50°	212.1	205.9	197.0	185.6	181.1	175.9	168.8	164.4	160.0	158.1	157.2
52.5°	180.2	171.4	162.6	148.5	144.9	139.6	129.9	125.5	121.0	117.5	117.5
55°	152.9	144.9	132.5	119.2	114.0	108.8	99.0	92.8	88.4	86.6	84.9
57.5°	128.1	119.2	107.8	93.6	88.4	83.1	73.4	67.1	62.8	60.1	58.4
60°	107.8	98.1	86.6	74.2	68.0	62.8	53.0	46.9	42.4	39.8	38.0
62.5°	88.4	80.4	68.9	57.5	52.1	46.9	38.9	32.8	28.2	26.5	23.9
65°	74.2	66.2	55.6	46.0	41.5	36.2	29.1	23.9	20.4	17.6	15.9
67.5°	60.1	53.9	45.1	36.2	31.8	28.2	22.1	17.6	14.1	12.4	11.5
70°	47.8	41.5	34.5	27.4	24.8	21.2	16.8	12.4	10.6	8.9	8.0
72.5°	35.4	30.9	25.6	20.4	17.6	15.9	11.5	9.8	7.1	6.1	5.2
75°	25.6	22.1	18.5	14.1	12.4	11.5	8.9	6.1	5.2	4.4	3.5
77.5°	17.6	15.9	12.4	9.8	8.9	8.0	6.1	4.4	3.5	2.6	2.6
80°	11.5	9.8	8.0	6.1	6.1	5.2	3.5	2.6	2.6	1.8	1.8
82.5°	7.1	6.1	5.2	4.4	3.5	3.5	2.6	1.8	1.8	0.9	0.9
85°	4.4	3.5	2.6	2.6	1.8	1.8	1.8	0.9	0.9	0.9	0.9
87.5°	1.8	1.8	1.8	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: P252233

CATALOG NUMBER: LE\_6B10D010 EC6B10208030 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	730.8	730.8	732.5	729.9	731.6	731.6	733.4	729.9	731.6	732.5	734.4
5°	727.2	728.1	729.9	729.0	729.9	729.9	731.6	727.2	730.8	730.8	733.4
7.5°	723.8	723.8	725.5	724.6	726.4	727.2	729.0	725.5	729.0	729.0	731.6
10°	719.2	719.2	722.0	721.0	723.8	724.6	727.2	723.8	727.2	728.1	730.8
12.5°	713.1	714.0	716.6	716.6	719.2	721.0	723.8	722.0	726.4	727.2	730.8
15°	706.0	707.8	711.4	710.5	713.1	715.8	719.2	716.6	722.9	724.6	728.1
17.5°	697.2	699.0	701.6	701.6	704.2	706.0	710.5	708.8	714.0	714.9	719.2
20°	684.0	686.6	690.1	689.2	691.9	693.6	697.2	695.4	700.8	702.5	706.9
22.5°	668.0	669.8	672.5	672.5	675.1	676.9	680.4	677.8	683.1	684.0	687.5
25°	646.9	648.6	650.4	651.2	653.9	654.8	656.5	654.8	659.2	660.1	664.5
27.5°	619.5	620.4	623.0	623.0	624.8	625.6	628.2	624.8	630.9	630.9	633.6
30°	586.8	585.9	589.4	587.6	589.4	589.4	592.0	590.2	594.8	592.9	595.6
32.5°	543.5	545.2	545.2	543.5	547.0	546.1	546.1	544.4	547.0	547.9	549.6
35°	493.1	495.8	495.8	496.6	497.5	494.9	495.8	490.4	494.9	495.8	496.6
37.5°	438.2	435.6	437.4	434.8	439.1	433.9	433.9	430.4	433.9	433.9	434.8
40°	375.5	374.6	376.4	374.6	373.8	372.9	371.1	368.5	372.0	370.2	372.9
42.5°	316.4	315.5	315.5	313.8	312.9	312.9	311.0	309.2	308.4	308.4	312.9
45°	255.4	257.1	255.4	254.5	256.2	254.5	255.4	251.9	253.6	251.9	253.6
47.5°	204.1	205.0	203.2	201.5	204.1	201.5	201.5	198.9	202.4	202.4	200.6
50°	158.1	157.2	155.5	157.2	156.4	156.4	156.4	153.8	155.5	152.9	154.6
52.5°	116.6	115.8	115.8	114.9	115.8	114.9	114.9	114.0	114.0	113.1	114.0
55°	84.9	84.0	82.1	82.1	82.1	83.1	82.1	81.2	81.2	80.4	81.2
57.5°	57.5	55.6	55.6	55.6	55.6	54.8	54.8	53.9	54.8	53.9	54.8
60°	37.1	37.1	35.4	35.4	35.4	35.4	35.4	34.5	35.4	35.4	35.4
62.5°	23.0	23.0	22.1	21.2	22.1	21.2	21.2	21.2	22.1	21.2	22.1
65°	15.0	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
67.5°	10.6	9.8	9.8	9.8	9.8	9.8	9.8	8.9	9.8	9.8	9.8
70°	7.1	7.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	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





TEST NUMBER: P252233

CATALOG NUMBER: LE\_6B10D010 EC6B10208030 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	731.6	732.5	730.8	731.6	729.9	731.6	732.5	734.4
5°	729.9	730.8	729.0	730.8	729.0	730.8	731.6	733.4
7.5°	728.1	729.9	728.1	729.9	728.1	729.9	730.8	732.5
10°	728.1	730.8	729.0	731.6	729.0	730.8	732.5	733.4
12.5°	728.1	730.8	729.9	731.6	730.8	732.5	734.4	736.1
15°	726.4	729.0	727.2	729.9	729.0	729.9	733.4	733.4
17.5°	716.6	719.2	719.2	721.0	721.0	723.8	725.5	727.2
20°	704.2	706.9	706.0	708.8	708.8	711.4	713.1	714.9
22.5°	685.8	689.2	688.4	691.0	690.1	691.9	695.4	694.5
25°	661.9	666.2	665.4	667.1	666.2	666.2	668.0	668.9
27.5°	632.8	635.4	634.5	636.2	634.5	636.2	638.0	638.9
30°	594.8	596.5	595.6	596.5	595.6	597.4	598.2	600.0
32.5°	548.8	551.4	548.8	550.5	549.6	549.6	553.1	551.4
35°	494.0	494.9	495.8	495.8	494.0	494.9	496.6	496.6
37.5°	433.0	437.4	432.1	434.8	433.9	433.9	433.9	436.5
40°	369.4	370.2	368.5	368.5	368.5	367.6	371.1	370.2
42.5°	309.2	310.1	309.2	306.6	307.5	307.5	310.1	306.6
45°	251.0	252.8	251.9	251.9	250.1	250.1	251.0	249.2
47.5°	198.9	200.6	198.0	198.9	197.0	198.9	198.0	199.8
50°	151.1	152.9	152.0	152.9	152.9	151.1	153.8	150.2
52.5°	113.1	114.0	113.1	112.2	111.4	111.4	113.1	112.2
55°	80.4	79.5	79.5	79.5	80.4	80.4	79.5	78.6
57.5°	53.9	53.9	53.0	53.0	53.9	52.1	53.0	52.1
60°	34.5	34.5	34.5	34.5	33.6	34.5	34.5	34.5
62.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
65°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
67.5°	8.9	9.8	9.8	9.8	8.9	8.9	8.9	8.9
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)