

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: io LED

Report Number: P252463

Luminaire Tested: **LD6B15D010 EU6B10209050 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B15D010 EU6B10209050 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

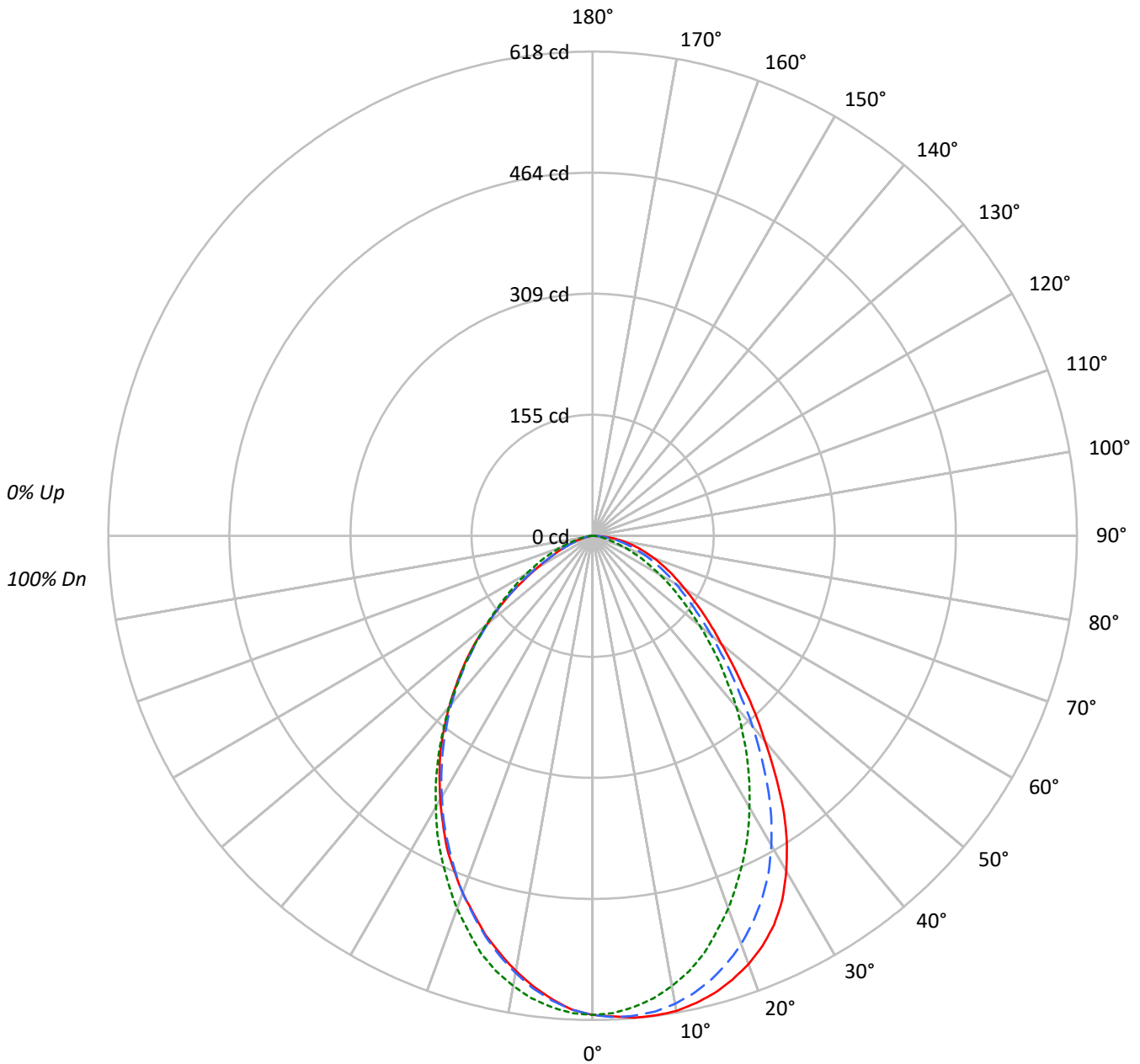
Lumens per Lamp: N/A  
Luminaire Lumens: 1084.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P252463

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1H

### 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	100	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59	59	59	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43	43	43	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33	33	33	33

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

	0°	90°	180°
0°	39895	39895	39895
5°	40440	39549	38881
10°	40795	38655	37363
15°	40789	37229	35628
20°	40393	35144	33672
25°	39433	32775	31673
30°	37237	30133	29305
35°	33753	27326	26991
40°	29152	24306	24230
45°	24994	21156	21313
50°	21720	18107	17843
55°	19518	15264	14298
60°	17732	12852	10530
65°	16657	10621	7734
70°	15870	8260	5665
75°	15200	5999	3857
80°	14352	4133	2555
85°	12725	2545	1273



TEST NUMBER: P252463

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	5.3
10°-20°	156.7	14.5
20°-30°	217.5	20.1
30°-40°	225.3	20.8
40°-50°	185.1	17.1
50°-60°	127.2	11.7
60°-70°	73.1	6.7
70°-80°	33.6	3.1
80°-90°	8.2	0.8
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°	431.4	39.8
0°-40°	656.7	60.6
0°-60°	969.0	89.4
0°-90°	1084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	612	612	612	612	612	
5°	618	615	604	595	594	59
15°	604	586	551	529	528	170
25°	548	511	455	436	440	251
35°	424	389	343	333	339	263
45°	271	251	229	227	231	211
55°	172	155	134	127	126	154
65°	108	94	69	48	50	107
75°	60	48	24	15	15	64
85°	17	12	3	2	2	19
90°	0	0	0	0	0	



TEST NUMBER: P252463

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5
2.5°	614.1	619.2	615.8	614.9	616.6	616.6	616.6	614.1	615.8	613.2	614.9
5°	617.5	621.7	618.3	616.6	618.3	619.2	616.6	614.9	617.5	614.1	614.9
7.5°	617.5	621.7	618.3	617.5	618.3	618.3	617.5	614.1	615.8	612.4	612.4
10°	615.8	619.2	615.8	614.1	614.9	614.1	614.1	609.8	610.7	606.4	606.4
12.5°	610.7	614.9	610.7	609.0	609.0	609.0	606.4	603.0	603.9	598.8	597.9
15°	603.9	607.3	603.0	601.3	601.3	600.5	598.8	593.7	593.7	588.6	586.1
17.5°	593.7	597.1	593.7	591.2	590.3	588.6	586.9	581.8	580.1	574.2	571.6
20°	581.8	584.4	581.0	578.4	576.7	575.0	571.6	566.5	564.8	558.9	554.6
22.5°	566.5	569.9	564.8	562.3	560.6	558.0	554.6	549.5	547.0	539.3	534.2
25°	547.8	549.5	545.3	542.7	539.3	537.6	535.1	528.3	525.8	517.3	511.3
27.5°	524.1	525.8	520.7	519.0	514.7	513.0	509.6	503.7	500.3	491.8	485.8
30°	494.3	496.0	492.6	490.1	486.7	483.3	480.7	474.8	469.7	461.2	456.1
32.5°	461.2	463.7	460.4	457.0	451.0	451.9	447.6	441.7	437.4	429.8	423.8
35°	423.8	425.5	421.3	420.4	417.0	413.6	409.4	405.1	402.6	394.1	389.0
37.5°	382.2	386.5	382.2	378.8	377.1	374.6	372.0	366.1	364.4	359.3	352.5
40°	342.3	344.8	342.3	338.9	336.3	336.3	332.9	329.6	325.3	320.2	317.7
42.5°	306.6	304.9	304.1	302.4	299.0	298.1	297.3	293.0	290.5	285.4	281.1
45°	270.9	271.8	270.1	269.2	266.7	265.0	263.3	259.9	259.1	254.0	250.6
47.5°	241.2	240.4	238.7	238.7	237.0	235.3	233.6	231.0	230.2	225.9	222.5
50°	214.0	214.9	214.0	213.2	210.6	209.8	208.1	206.4	204.7	200.4	197.1
52.5°	192.0	191.1	190.3	190.3	187.7	186.9	185.2	183.5	181.8	177.5	175.0
55°	171.6	171.6	170.7	169.9	167.3	166.5	165.6	163.9	161.4	158.0	155.4
57.5°	152.9	152.9	152.0	151.2	149.5	149.5	147.8	146.1	144.4	141.0	137.6
60°	135.9	136.7	135.9	135.0	133.3	133.3	132.5	130.0	129.1	124.9	122.3
62.5°	121.5	121.5	121.5	120.6	119.8	118.1	118.1	115.5	113.8	111.3	107.9
65°	107.9	107.9	107.9	107.0	105.3	104.5	103.6	101.9	100.2	97.7	94.3
67.5°	95.1	95.1	95.1	94.3	92.6	91.7	90.9	90.0	87.5	84.9	81.5
70°	83.2	83.2	82.4	81.5	80.7	79.8	79.0	77.3	75.6	72.2	69.6
72.5°	71.3	71.3	71.3	69.6	68.8	68.8	67.1	66.2	64.6	61.2	58.6
75°	60.3	59.5	59.5	58.6	57.8	56.9	56.1	55.2	52.7	51.0	47.6
77.5°	49.3	49.3	48.4	47.6	47.6	46.7	45.9	44.2	43.3	40.8	38.2
80°	38.2	38.2	38.2	38.2	37.4	36.5	36.5	34.8	34.0	31.4	29.7
82.5°	28.9	28.0	28.0	28.0	27.2	26.3	26.3	25.5	24.6	22.9	21.2
85°	17.0	16.1	16.1	16.1	15.3	15.3	14.4	14.4	13.6	11.9	11.9
87.5°	5.1	5.1	5.9	5.9	5.1	5.1	5.1	5.1	5.1	4.2	4.2
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: P252463

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5
2.5°	613.2	615.8	612.4	611.5	614.9	613.2	612.4	610.7	611.5	609.8	607.3
5°	612.4	615.8	611.5	609.0	613.2	610.7	609.0	607.3	607.3	603.9	602.2
7.5°	609.8	611.5	607.3	604.7	607.3	604.7	603.0	600.5	599.6	595.4	592.9
10°	603.0	604.7	599.6	596.2	598.8	595.4	592.9	590.3	588.6	583.5	580.1
12.5°	593.7	594.5	588.6	584.4	586.1	583.5	579.3	575.9	574.2	569.1	564.8
15°	581.0	581.8	575.0	569.1	570.8	567.4	562.3	558.9	556.3	551.2	545.3
17.5°	565.7	564.8	557.2	551.2	552.1	547.8	542.7	537.6	534.2	528.3	524.1
20°	548.7	546.1	537.6	530.8	531.7	526.6	520.7	515.6	511.3	506.2	500.3
22.5°	527.5	524.1	516.4	507.9	508.8	504.5	496.0	491.8	487.5	480.7	475.6
25°	504.5	499.4	491.8	483.3	483.3	478.2	471.4	466.3	462.0	455.3	449.3
27.5°	477.3	474.8	464.6	457.8	457.0	451.9	445.9	440.0	434.9	428.9	423.0
30°	447.6	443.4	435.7	428.1	426.4	422.1	416.2	409.4	406.0	400.0	395.0
32.5°	416.2	411.9	403.4	395.8	395.0	391.6	386.5	379.7	376.3	372.0	368.6
35°	380.5	378.8	370.3	364.4	364.4	361.0	355.9	349.9	347.4	343.1	338.9
37.5°	346.5	344.0	336.3	331.2	331.2	327.0	321.9	319.4	316.8	313.4	310.9
40°	310.9	309.2	303.2	298.1	299.0	295.6	292.2	288.8	287.1	285.4	282.8
42.5°	277.7	276.0	271.8	267.5	267.5	265.0	261.6	259.1	257.4	254.8	254.0
45°	248.0	245.5	242.1	237.8	237.8	235.3	233.6	231.9	231.0	229.3	226.8
47.5°	219.1	217.4	214.0	209.8	209.8	209.8	206.4	203.8	203.8	202.1	201.3
50°	194.5	192.0	189.4	186.0	186.0	184.3	181.8	179.2	179.2	178.4	176.7
52.5°	171.6	169.9	166.5	163.1	163.1	161.4	158.8	158.0	157.1	154.6	153.7
55°	152.0	150.3	147.8	143.5	142.7	141.8	139.3	137.6	136.7	134.2	134.2
57.5°	134.2	132.5	128.3	125.7	124.9	123.2	120.6	118.9	118.1	116.4	114.7
60°	118.9	116.4	113.0	109.6	108.7	107.0	104.5	102.8	101.9	98.5	96.8
62.5°	104.5	101.9	98.5	95.1	94.3	92.6	89.2	87.5	85.8	82.4	80.7
65°	90.9	88.3	84.9	81.5	79.8	79.0	75.6	73.0	71.3	68.8	65.4
67.5°	78.1	75.6	72.2	67.9	67.9	65.4	62.9	60.3	57.8	55.2	52.7
70°	66.2	63.7	60.3	56.9	56.1	54.4	51.8	48.4	46.7	43.3	40.8
72.5°	55.2	52.7	49.3	45.9	45.0	43.3	40.8	37.4	34.8	32.3	29.7
75°	45.0	42.5	39.1	36.5	35.7	34.0	31.4	28.0	25.5	23.8	21.2
77.5°	35.7	33.1	30.6	28.0	27.2	25.5	22.9	21.2	18.7	17.0	14.4
80°	27.2	25.5	22.9	21.2	20.4	18.7	17.0	14.4	12.7	11.0	10.2
82.5°	19.5	17.8	16.1	13.6	13.6	11.9	11.0	9.3	7.6	6.8	5.9
85°	11.0	9.3	8.5	7.6	6.8	6.8	5.9	5.1	4.2	3.4	3.4
87.5°	3.4	3.4	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
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: P252463

CATALOG NUMBER: LD6B15D010 EU6B10209050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5
2.5°	607.3	608.1	606.4	608.1	606.4	607.3	605.6	607.3	605.6	607.3	603.9
5°	601.3	601.3	598.8	600.5	598.8	599.6	596.2	597.1	595.4	597.1	593.7
7.5°	591.2	592.0	587.8	589.5	586.9	586.9	584.4	585.2	582.7	583.5	581.0
10°	579.3	578.4	574.2	575.9	572.5	572.5	569.9	569.9	566.5	567.4	564.0
12.5°	562.3	561.4	556.3	558.0	554.6	554.6	552.1	552.1	548.7	550.4	547.0
15°	542.7	541.9	536.8	537.6	534.2	534.2	530.8	531.7	529.1	530.8	527.5
17.5°	520.7	519.8	514.7	515.6	511.3	512.2	509.6	508.8	507.1	507.9	505.4
20°	497.7	496.0	490.9	491.8	490.1	487.5	485.8	486.7	485.0	486.7	484.1
22.5°	473.9	470.5	466.3	466.3	464.6	464.6	462.0	463.7	460.4	462.9	461.2
25°	446.8	444.2	440.8	442.5	439.1	439.1	436.6	437.4	435.7	437.4	435.7
27.5°	420.4	418.7	413.6	415.3	412.8	413.6	411.1	411.9	411.1	412.8	411.1
30°	392.4	391.6	388.2	388.2	387.3	386.5	385.6	385.6	384.8	387.3	385.6
32.5°	366.1	363.5	360.1	362.7	358.4	361.0	359.3	361.0	359.3	361.0	360.1
35°	338.9	338.0	333.8	334.6	333.8	333.8	332.9	332.9	332.9	335.5	335.5
37.5°	310.0	309.2	306.6	307.5	305.8	304.9	304.9	306.6	306.6	308.3	308.3
40°	282.0	282.8	280.3	280.3	279.4	279.4	279.4	281.1	280.3	282.0	281.1
42.5°	254.0	254.0	251.4	252.3	251.4	252.3	252.3	254.0	254.0	254.8	254.0
45°	227.6	227.6	226.8	227.6	225.9	226.8	225.9	227.6	226.8	227.6	227.6
47.5°	201.3	201.3	201.3	200.4	200.4	200.4	200.4	200.4	199.6	201.3	200.4
50°	176.7	177.5	176.7	176.7	175.8	176.7	175.8	175.8	174.1	175.0	175.0
52.5°	154.6	154.6	152.9	152.9	152.9	152.0	152.0	152.0	151.2	151.2	149.5
55°	133.3	133.3	131.7	131.7	130.8	130.0	129.1	129.1	126.6	126.6	124.0
57.5°	113.8	113.0	110.4	110.4	108.7	107.9	107.0	106.2	104.5	102.8	101.9
60°	96.0	94.3	92.6	91.7	90.0	88.3	86.6	84.9	83.2	82.4	81.5
62.5°	79.0	76.4	74.7	73.9	72.2	69.6	67.9	66.2	64.6	63.7	62.0
65°	63.7	61.2	58.6	57.8	56.1	54.4	51.8	50.1	48.4	47.6	47.6
67.5°	50.1	47.6	44.2	44.2	42.5	40.8	39.1	37.4	36.5	37.4	37.4
70°	37.4	35.7	33.1	32.3	30.6	28.9	28.0	28.0	28.0	28.9	28.0
72.5°	28.0	25.5	23.8	22.9	22.1	21.2	21.2	21.2	20.4	21.2	21.2
75°	19.5	17.8	16.1	16.1	15.3	15.3	15.3	15.3	15.3	15.3	15.3
77.5°	13.6	11.9	11.0	11.0	11.0	10.2	10.2	10.2	10.2	10.2	10.2
80°	8.5	8.5	7.6	7.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	5.1	5.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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: LD6B15D010 EU6B10209050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	611.5	611.5	611.5	611.5	611.5	611.5	611.5	611.5
2.5°	603.9	606.4	603.0	605.6	604.7	603.9	602.2	605.6
5°	593.7	594.5	591.2	594.5	593.7	592.0	590.3	593.7
7.5°	579.3	581.8	577.6	581.0	580.1	578.4	576.7	580.1
10°	563.1	565.7	562.3	564.8	564.8	563.1	560.6	564.0
12.5°	545.3	547.0	543.6	547.0	546.1	544.4	543.6	546.1
15°	525.8	528.3	524.9	527.5	526.6	525.8	524.9	527.5
17.5°	504.5	507.1	504.5	507.1	507.1	504.5	503.7	505.4
20°	483.3	485.0	482.4	485.0	484.1	484.1	482.4	485.0
22.5°	459.5	462.0	460.4	462.0	461.2	461.2	460.4	462.0
25°	435.7	438.3	435.7	438.3	437.4	437.4	435.7	440.0
27.5°	411.9	413.6	411.1	414.5	413.6	411.9	412.8	413.6
30°	386.5	388.2	386.5	389.0	389.0	389.0	387.3	389.0
32.5°	361.0	363.5	361.0	363.5	362.7	362.7	361.8	363.5
35°	335.5	336.3	334.6	337.2	337.2	338.0	336.3	338.9
37.5°	309.2	310.0	309.2	310.0	311.7	309.2	310.9	311.7
40°	282.0	283.7	282.8	283.7	283.7	284.5	283.7	284.5
42.5°	254.8	256.5	254.8	257.4	256.5	256.5	257.4	257.4
45°	226.8	229.3	227.6	229.3	230.2	229.3	229.3	231.0
47.5°	200.4	202.1	201.3	202.1	202.1	202.1	202.1	203.8
50°	174.1	175.0	175.0	175.8	175.8	176.7	175.0	175.8
52.5°	147.8	149.5	149.5	149.5	148.6	149.5	149.5	149.5
55°	124.0	124.9	123.2	124.9	124.9	124.0	124.0	125.7
57.5°	101.1	101.1	101.1	101.1	101.1	100.2	101.1	101.1
60°	79.8	80.7	79.8	79.8	79.8	79.8	79.0	80.7
62.5°	62.0	62.0	61.2	62.0	62.0	62.0	62.9	62.9
65°	48.4	49.3	48.4	49.3	49.3	49.3	49.3	50.1
67.5°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
70°	28.9	28.9	28.9	29.7	28.9	28.9	28.9	29.7
72.5°	21.2	21.2	21.2	21.2	21.2	21.2	22.1	22.1
75°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
77.5°	10.2	10.2	10.2	11.0	10.2	11.0	10.2	10.2
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
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)