

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: P252457

Luminaire Tested: **LD6B15D010 EU6B10208050 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252457  
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 EU6B10208050 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1289.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 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

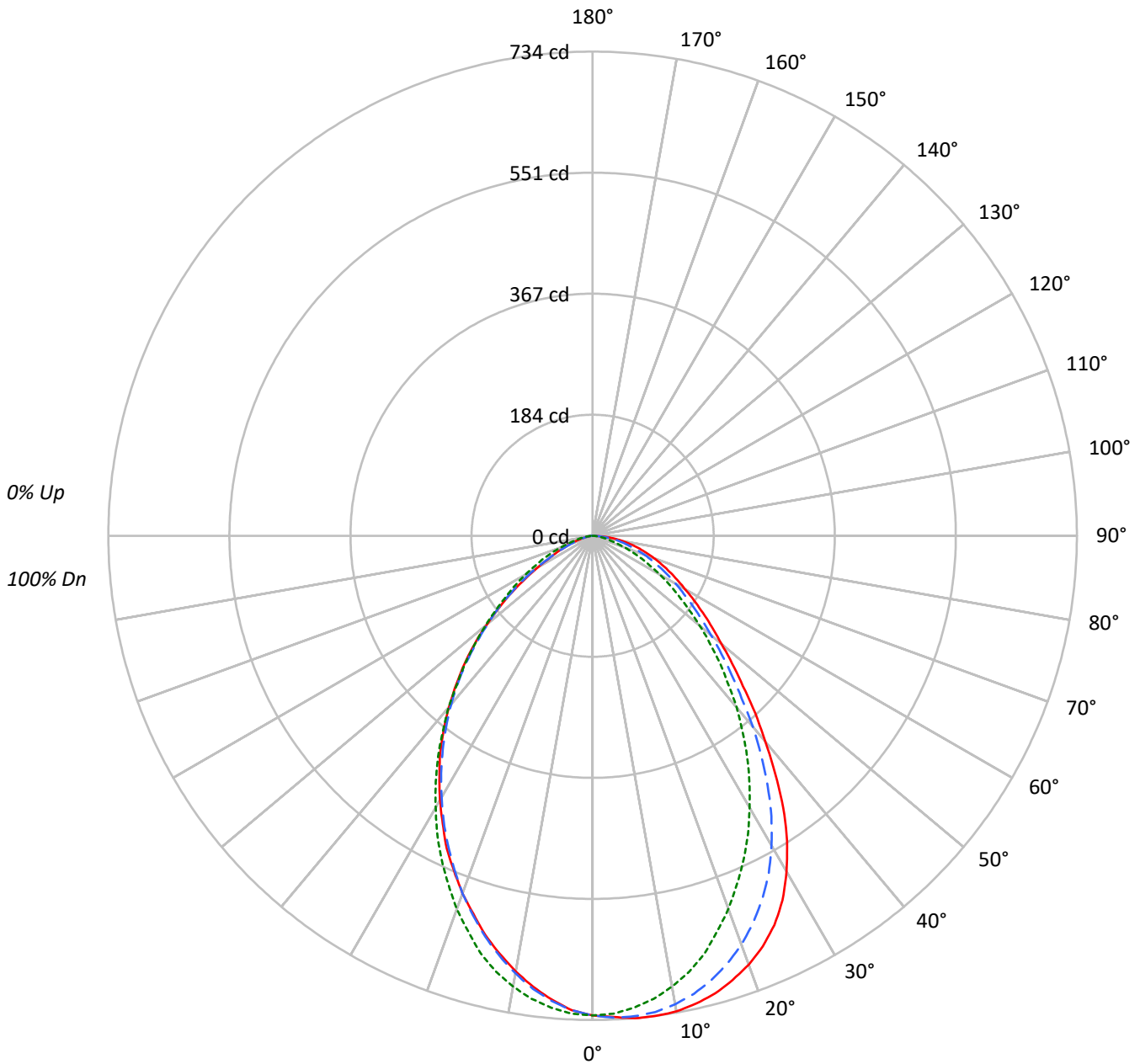
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252457

CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBLWW1H

### Luminous Intensity Polar Plot





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CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBLWW1H

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

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

	0°	90°	180°
0°	47443	47443	47443
5°	48089	47028	46236
10°	48506	45969	44425
15°	48502	44274	42362
20°	48030	41788	40039
25°	46891	38973	37663
30°	44281	35836	34849
35°	40141	32495	32097
40°	34662	28905	28812
45°	29728	25160	25345
50°	25831	21527	21223
55°	23204	18153	17005
60°	21086	15292	12513
65°	19806	12628	9201
70°	18884	9824	6734
75°	18073	7134	4588
80°	17057	4922	3043
85°	15121	2994	1497



TEST NUMBER: P252457

CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBLWW1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	5.3
10°-20°	186.3	14.5
20°-30°	258.6	20.1
30°-40°	267.9	20.8
40°-50°	220.2	17.1
50°-60°	151.3	11.7
60°-70°	87.0	6.7
70°-80°	40.0	3.1
80°-90°	9.7	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°	513.0	39.8
0°-40°	780.9	60.6
0°-60°	1152.3	89.4
0°-90°	1289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1289.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	727	727	727	727	727	
5°	734	731	718	708	706	70
15°	718	697	656	629	627	202
25°	651	608	541	518	523	298
35°	504	463	408	396	403	313
45°	322	298	273	270	275	251
55°	204	185	160	150	150	184
65°	128	112	82	58	60	128
75°	72	57	28	18	18	76
85°	20	14	4	2	2	23
90°	0	0	0	0	0	



TEST NUMBER: P252457

CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBLWW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	730.2	736.3	732.2	731.2	733.2	733.2	733.2	730.2	732.2	729.2	731.2
5°	734.3	739.3	735.3	733.2	735.3	736.3	733.2	731.2	734.3	730.2	731.2
7.5°	734.3	739.3	735.3	734.3	735.3	735.3	734.3	730.2	732.2	728.2	728.2
10°	732.2	736.3	732.2	730.2	731.2	730.2	730.2	725.2	726.2	721.1	721.1
12.5°	726.2	731.2	726.2	724.2	724.2	724.2	721.1	717.1	718.1	712.0	711.0
15°	718.1	722.1	717.1	715.1	715.1	714.1	712.0	706.0	706.0	699.9	696.9
17.5°	706.0	710.0	706.0	702.9	701.9	699.9	697.9	691.8	689.8	682.7	679.7
20°	691.8	694.9	690.8	687.8	685.8	683.8	679.7	673.7	671.6	664.6	659.5
22.5°	673.7	677.7	671.6	668.6	666.6	663.6	659.5	653.5	650.4	641.3	635.3
25°	651.4	653.5	648.4	645.4	641.3	639.3	636.3	628.2	625.2	615.1	608.0
27.5°	623.2	625.2	619.1	617.1	612.0	610.0	606.0	598.9	594.9	584.8	577.7
30°	587.8	589.8	585.8	582.8	578.7	574.7	571.6	564.6	558.5	548.4	542.4
32.5°	548.4	551.5	547.4	543.4	536.3	537.3	532.3	525.2	520.1	511.1	504.0
35°	504.0	506.0	501.0	499.9	495.9	491.9	486.8	481.8	478.7	468.6	462.6
37.5°	454.5	459.5	454.5	450.5	448.4	445.4	442.4	435.3	433.3	427.2	419.1
40°	407.0	410.1	407.0	403.0	400.0	400.0	395.9	391.9	386.8	380.8	377.7
42.5°	364.6	362.6	361.6	359.6	355.5	354.5	353.5	348.4	345.4	339.4	334.3
45°	322.2	323.2	321.2	320.2	317.1	315.1	313.1	309.1	308.0	302.0	297.9
47.5°	286.8	285.8	283.8	283.8	281.8	279.8	277.7	274.7	273.7	268.7	264.6
50°	254.5	255.5	254.5	253.5	250.5	249.5	247.4	245.4	243.4	238.4	234.3
52.5°	228.3	227.2	226.2	226.2	223.2	222.2	220.2	218.2	216.1	211.1	208.1
55°	204.0	204.0	203.0	202.0	199.0	198.0	196.9	194.9	191.9	187.9	184.8
57.5°	181.8	181.8	180.8	179.8	177.8	177.8	175.7	173.7	171.7	167.7	163.6
60°	161.6	162.6	161.6	160.6	158.6	158.6	157.6	154.5	153.5	148.5	145.4
62.5°	144.4	144.4	144.4	143.4	142.4	140.4	140.4	137.4	135.3	132.3	128.3
65°	128.3	128.3	128.3	127.3	125.2	124.2	123.2	121.2	119.2	116.1	112.1
67.5°	113.1	113.1	113.1	112.1	110.1	109.1	108.1	107.1	104.0	101.0	97.0
70°	99.0	99.0	98.0	97.0	95.9	94.9	93.9	91.9	89.9	85.8	82.8
72.5°	84.8	84.8	84.8	82.8	81.8	81.8	79.8	78.8	76.8	72.7	69.7
75°	71.7	70.7	70.7	69.7	68.7	67.7	66.7	65.6	62.6	60.6	56.6
77.5°	58.6	58.6	57.6	56.6	56.6	55.5	54.5	52.5	51.5	48.5	45.4
80°	45.4	45.4	45.4	45.4	44.4	43.4	43.4	41.4	40.4	37.4	35.3
82.5°	34.3	33.3	33.3	33.3	32.3	31.3	31.3	30.3	29.3	27.3	25.2
85°	20.2	19.2	19.2	19.2	18.2	18.2	17.2	17.2	16.2	14.1	14.1
87.5°	6.1	6.1	7.1	7.1	6.1	6.1	6.1	6.1	6.1	5.0	5.0
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: P252457

CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	729.2	732.2	728.2	727.2	731.2	729.2	728.2	726.2	727.2	725.2	722.1
5°	728.2	732.2	727.2	724.2	729.2	726.2	724.2	722.1	722.1	718.1	716.1
7.5°	725.2	727.2	722.1	719.1	722.1	719.1	717.1	714.1	713.0	708.0	705.0
10°	717.1	719.1	713.0	709.0	712.0	708.0	705.0	701.9	699.9	693.9	689.8
12.5°	706.0	707.0	699.9	694.9	696.9	693.9	688.8	684.8	682.7	676.7	671.6
15°	690.8	691.8	683.8	676.7	678.7	674.7	668.6	664.6	661.5	655.5	648.4
17.5°	672.6	671.6	662.5	655.5	656.5	651.4	645.4	639.3	635.3	628.2	623.2
20°	652.4	649.4	639.3	631.2	632.2	626.2	619.1	613.1	608.0	601.9	594.9
22.5°	627.2	623.2	614.1	604.0	605.0	599.9	589.8	584.8	579.7	571.6	565.6
25°	599.9	593.9	584.8	574.7	574.7	568.6	560.5	554.5	549.4	541.4	534.3
27.5°	567.6	564.6	552.5	544.4	543.4	537.3	530.2	523.2	517.1	510.0	503.0
30°	532.3	527.2	518.1	509.0	507.0	502.0	494.9	486.8	482.8	475.7	469.6
32.5°	494.9	489.8	479.7	470.7	469.6	465.6	459.5	451.5	447.4	442.4	438.3
35°	452.5	450.5	440.4	433.3	433.3	429.2	423.2	416.1	413.1	408.0	403.0
37.5°	412.1	409.0	400.0	393.9	393.9	388.8	382.8	379.8	376.7	372.7	369.7
40°	369.7	367.6	360.6	354.5	355.5	351.5	347.4	343.4	341.4	339.4	336.3
42.5°	330.3	328.2	323.2	318.1	318.1	315.1	311.1	308.0	306.0	303.0	302.0
45°	294.9	291.9	287.8	282.8	282.8	279.8	277.7	275.7	274.7	272.7	269.7
47.5°	260.6	258.6	254.5	249.5	249.5	249.5	245.4	242.4	242.4	240.4	239.4
50°	231.3	228.3	225.2	221.2	221.2	219.2	216.1	213.1	213.1	212.1	210.1
52.5°	204.0	202.0	198.0	193.9	193.9	191.9	188.9	187.9	186.8	183.8	182.8
55°	180.8	178.8	175.7	170.7	169.7	168.7	165.6	163.6	162.6	159.6	159.6
57.5°	159.6	157.6	152.5	149.5	148.5	146.4	143.4	141.4	140.4	138.4	136.3
60°	141.4	138.4	134.3	130.3	129.3	127.3	124.2	122.2	121.2	117.2	115.1
62.5°	124.2	121.2	117.2	113.1	112.1	110.1	106.0	104.0	102.0	98.0	95.9
65°	108.1	105.0	101.0	97.0	94.9	93.9	89.9	86.9	84.8	81.8	77.8
67.5°	92.9	89.9	85.8	80.8	80.8	77.8	74.7	71.7	68.7	65.6	62.6
70°	78.8	75.7	71.7	67.7	66.7	64.6	61.6	57.6	55.5	51.5	48.5
72.5°	65.6	62.6	58.6	54.5	53.5	51.5	48.5	44.4	41.4	38.4	35.3
75°	53.5	50.5	46.5	43.4	42.4	40.4	37.4	33.3	30.3	28.3	25.2
77.5°	42.4	39.4	36.4	33.3	32.3	30.3	27.3	25.2	22.2	20.2	17.2
80°	32.3	30.3	27.3	25.2	24.2	22.2	20.2	17.2	15.1	13.1	12.1
82.5°	23.2	21.2	19.2	16.2	16.2	14.1	13.1	11.1	9.1	8.1	7.1
85°	13.1	11.1	10.1	9.1	8.1	8.1	7.1	6.1	5.0	4.0	4.0
87.5°	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0
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: P252457

CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	722.1	723.1	721.1	723.1	721.1	722.1	720.1	722.1	720.1	722.1	718.1
5°	715.1	715.1	712.0	714.1	712.0	713.0	709.0	710.0	708.0	710.0	706.0
7.5°	702.9	704.0	698.9	700.9	697.9	697.9	694.9	695.9	692.8	693.9	690.8
10°	688.8	687.8	682.7	684.8	680.7	680.7	677.7	677.7	673.7	674.7	670.6
12.5°	668.6	667.6	661.5	663.6	659.5	659.5	656.5	656.5	652.4	654.5	650.4
15°	645.4	644.4	638.3	639.3	635.3	635.3	631.2	632.2	629.2	631.2	627.2
17.5°	619.1	618.1	612.0	613.1	608.0	609.0	606.0	605.0	603.0	604.0	600.9
20°	591.8	589.8	583.8	584.8	582.8	579.7	577.7	578.7	576.7	578.7	575.7
22.5°	563.6	559.5	554.5	554.5	552.5	552.5	549.4	551.5	547.4	550.4	548.4
25°	531.3	528.2	524.2	526.2	522.2	522.2	519.1	520.1	518.1	520.1	518.1
27.5°	499.9	497.9	491.9	493.9	490.9	491.9	488.8	489.8	488.8	490.9	488.8
30°	466.6	465.6	461.6	461.6	460.6	459.5	458.5	458.5	457.5	460.6	458.5
32.5°	435.3	432.3	428.2	431.3	426.2	429.2	427.2	429.2	427.2	429.2	428.2
35°	403.0	402.0	396.9	397.9	396.9	396.9	395.9	395.9	395.9	398.9	398.9
37.5°	368.6	367.6	364.6	365.6	363.6	362.6	362.6	364.6	364.6	366.6	366.6
40°	335.3	336.3	333.3	333.3	332.3	332.3	332.3	334.3	333.3	335.3	334.3
42.5°	302.0	302.0	299.0	300.0	299.0	300.0	300.0	302.0	302.0	303.0	302.0
45°	270.7	270.7	269.7	270.7	268.7	269.7	268.7	270.7	269.7	270.7	270.7
47.5°	239.4	239.4	239.4	238.4	238.4	238.4	238.4	238.4	237.3	239.4	238.4
50°	210.1	211.1	210.1	210.1	209.1	210.1	209.1	209.1	207.0	208.1	208.1
52.5°	183.8	183.8	181.8	181.8	181.8	180.8	180.8	180.8	179.8	179.8	177.8
55°	158.6	158.6	156.5	156.5	155.5	154.5	153.5	153.5	150.5	150.5	147.5
57.5°	135.3	134.3	131.3	131.3	129.3	128.3	127.3	126.2	124.2	122.2	121.2
60°	114.1	112.1	110.1	109.1	107.1	105.0	103.0	101.0	99.0	98.0	97.0
62.5°	93.9	90.9	88.9	87.9	85.8	82.8	80.8	78.8	76.8	75.7	73.7
65°	75.7	72.7	69.7	68.7	66.7	64.6	61.6	59.6	57.6	56.6	56.6
67.5°	59.6	56.6	52.5	52.5	50.5	48.5	46.5	44.4	43.4	44.4	44.4
70°	44.4	42.4	39.4	38.4	36.4	34.3	33.3	33.3	33.3	34.3	33.3
72.5°	33.3	30.3	28.3	27.3	26.3	25.2	25.2	25.2	24.2	25.2	25.2
75°	23.2	21.2	19.2	19.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	16.2	14.1	13.1	13.1	13.1	12.1	12.1	12.1	12.1	12.1	12.1
80°	10.1	10.1	9.1	9.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	6.1	6.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P252457

CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	718.1	721.1	717.1	720.1	719.1	718.1	716.1	720.1
5°	706.0	707.0	702.9	707.0	706.0	704.0	701.9	706.0
7.5°	688.8	691.8	686.8	690.8	689.8	687.8	685.8	689.8
10°	669.6	672.6	668.6	671.6	671.6	669.6	666.6	670.6
12.5°	648.4	650.4	646.4	650.4	649.4	647.4	646.4	649.4
15°	625.2	628.2	624.2	627.2	626.2	625.2	624.2	627.2
17.5°	599.9	603.0	599.9	603.0	603.0	599.9	598.9	600.9
20°	574.7	576.7	573.7	576.7	575.7	575.7	573.7	576.7
22.5°	546.4	549.4	547.4	549.4	548.4	548.4	547.4	549.4
25°	518.1	521.2	518.1	521.2	520.1	520.1	518.1	523.2
27.5°	489.8	491.9	488.8	492.9	491.9	489.8	490.9	491.9
30°	459.5	461.6	459.5	462.6	462.6	462.6	460.6	462.6
32.5°	429.2	432.3	429.2	432.3	431.3	431.3	430.3	432.3
35°	398.9	400.0	397.9	401.0	401.0	402.0	400.0	403.0
37.5°	367.6	368.6	367.6	368.6	370.7	367.6	369.7	370.7
40°	335.3	337.3	336.3	337.3	337.3	338.3	337.3	338.3
42.5°	303.0	305.0	303.0	306.0	305.0	305.0	306.0	306.0
45°	269.7	272.7	270.7	272.7	273.7	272.7	272.7	274.7
47.5°	238.4	240.4	239.4	240.4	240.4	240.4	240.4	242.4
50°	207.0	208.1	208.1	209.1	209.1	210.1	208.1	209.1
52.5°	175.7	177.8	177.8	177.8	176.7	177.8	177.8	177.8
55°	147.5	148.5	146.4	148.5	148.5	147.5	147.5	149.5
57.5°	120.2	120.2	120.2	120.2	120.2	119.2	120.2	120.2
60°	94.9	95.9	94.9	94.9	94.9	94.9	93.9	95.9
62.5°	73.7	73.7	72.7	73.7	73.7	73.7	74.7	74.7
65°	57.6	58.6	57.6	58.6	58.6	58.6	58.6	59.6
67.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
70°	34.3	34.3	34.3	35.3	34.3	34.3	34.3	35.3
72.5°	25.2	25.2	25.2	25.2	25.2	25.2	26.3	26.3
75°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
77.5°	12.1	12.1	12.1	13.1	12.1	13.1	12.1	12.1
80°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
82.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
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)