

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: P212785

Luminaire Tested: **LD6B15D010 EU6B10208035 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208035 6LBSWLI1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1436.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

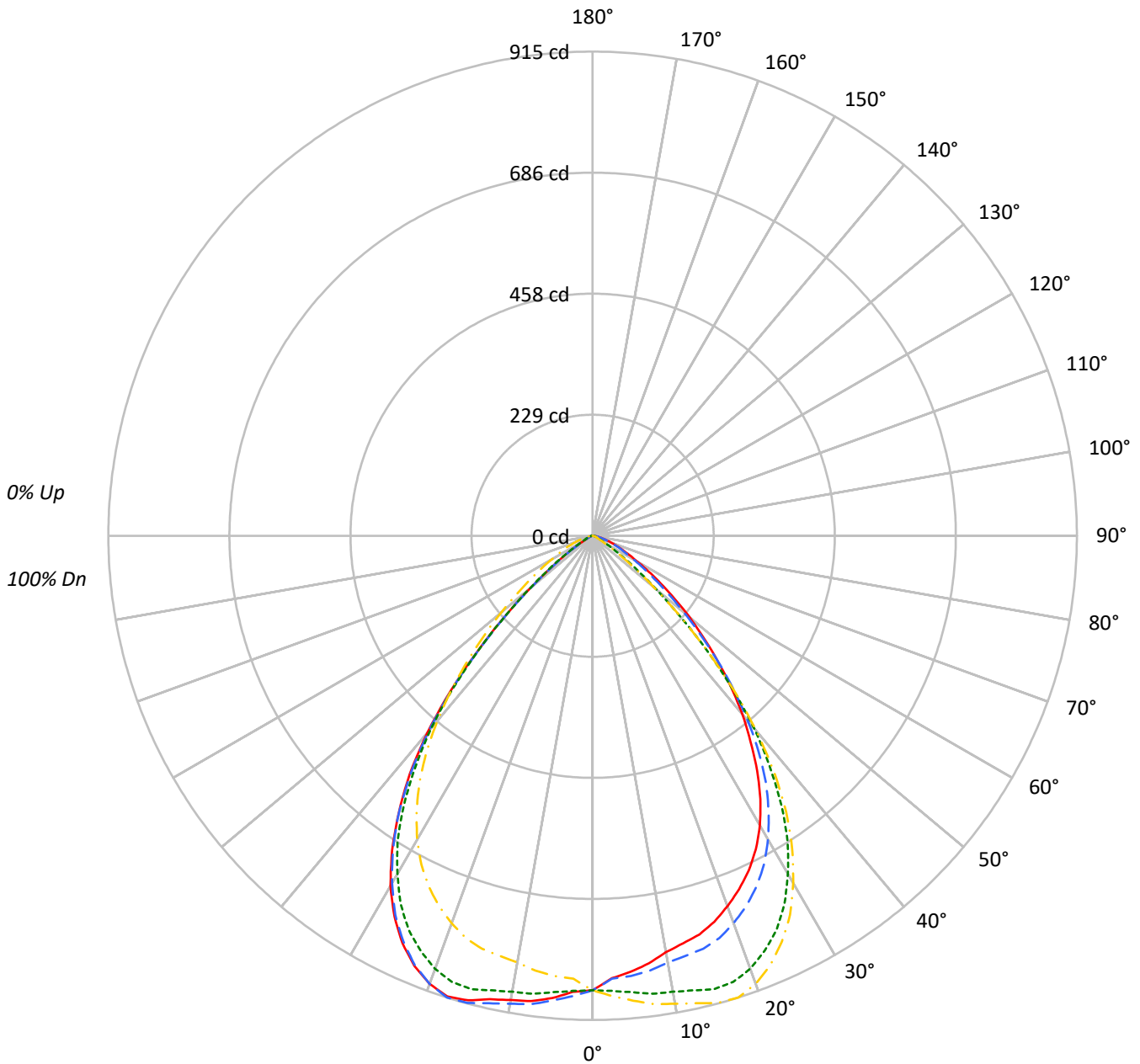
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWL11

Luminous Intensity Polar Plot





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CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82																			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	47085	47085	47085	47085
5°	45504	47650	48255	47650
10°	44471	48702	49593	48702
15°	44262	50335	51584	50335
20°	43456	50807	52557	50807
25°	42214	49715	51408	49715
30°	40000	46710	48356	46710
35°	36266	41619	42757	41619
40°	31480	33914	34772	33914
45°	25817	23413	23568	23413
50°	20298	13134	12878	13134
55°	15005	6499	5830	6499
60°	10635	2851	2083	2851
65°	7913	1816	1297	1816
70°	5770	1443	962	1443
75°	4236	1059	635	1059
80°	2841	947	316	947
85°	1887	629	629	629



TEST NUMBER: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	5.7
10°-20°	243.5	17.0
20°-30°	363.4	25.3
30°-40°	373.4	26.0
40°-50°	241.8	16.8
50°-60°	89.9	6.3
60°-70°	29.5	2.1
70°-80°	10.4	0.7
80°-90°	1.9	0.1
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°	689.2	48.0
0°-40°	1062.5	74.0
0°-60°	1394.2	97.1
0°-90°	1436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	859	859	859	859	859	
5°	827	866	877	866	827	78
15°	780	887	909	887	780	219
25°	698	822	850	822	698	320
35°	542	622	639	622	542	336
45°	333	302	304	302	333	257
55°	157	68	61	68	157	143
65°	61	14	10	14	61	62
75°	20	5	3	5	20	22
85°	3	1	1	1	3	4
90°	0	0	0	0	0	



TEST NUMBER: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9
2.5°	836.9	848.9	840.9	845.9	837.9	837.9	853.9	844.9	851.9	844.9	837.9
5°	826.9	841.9	831.9	836.9	829.9	830.9	845.9	838.9	845.9	840.9	834.9
7.5°	814.9	829.9	820.9	825.9	818.9	820.9	836.9	829.9	837.9	832.9	828.9
10°	798.9	814.9	806.9	811.9	805.9	806.9	822.9	817.9	824.9	821.9	818.9
12.5°	788.9	803.9	794.9	799.9	795.9	797.9	812.9	808.9	817.9	814.9	812.9
15°	779.9	793.9	785.9	790.9	787.9	788.9	804.9	800.9	810.9	808.9	807.9
17.5°	764.9	779.9	770.9	776.9	773.9	774.9	790.9	787.9	797.9	797.9	796.9
20°	744.9	759.9	752.9	756.9	754.9	756.9	770.9	768.9	778.9	778.9	778.9
22.5°	722.9	737.9	729.9	733.9	731.9	734.9	747.9	747.9	755.9	756.9	757.9
25°	697.9	712.9	704.9	709.9	707.9	709.9	721.9	722.9	729.9	729.9	731.9
27.5°	667.9	682.9	674.9	678.9	677.9	678.9	691.9	693.9	697.9	698.9	700.9
30°	631.9	645.9	637.9	641.9	641.9	641.9	654.9	655.9	659.9	660.9	662.9
32.5°	589.9	601.9	595.9	599.9	598.9	600.9	609.9	613.9	618.9	617.9	618.9
35°	541.9	554.9	548.9	551.9	552.9	555.9	561.9	566.9	567.9	568.9	570.9
37.5°	489.9	502.9	496.9	499.9	500.9	506.9	508.9	513.9	515.9	515.9	515.9
40°	439.9	445.9	440.9	443.9	444.9	449.9	451.9	455.9	457.9	456.9	455.9
42.5°	385.9	390.9	385.9	388.9	388.9	392.9	393.9	398.9	398.9	396.9	393.9
45°	333.0	338.0	333.0	335.0	335.0	339.0	339.0	339.0	341.0	338.0	333.0
47.5°	283.0	288.0	283.0	285.0	284.0	287.0	286.0	287.0	284.0	282.0	276.0
50°	238.0	240.0	238.0	237.0	238.0	240.0	239.0	239.0	235.0	232.0	225.0
52.5°	194.0	197.0	194.0	194.0	194.0	196.0	196.0	195.0	191.0	187.0	180.0
55°	157.0	159.0	158.0	157.0	157.0	159.0	157.0	157.0	153.0	150.0	143.0
57.5°	125.0	126.0	125.0	125.0	125.0	126.0	126.0	124.0	121.0	118.0	113.0
60°	97.0	98.0	98.0	97.0	97.0	99.0	99.0	98.0	95.0	93.0	88.0
62.5°	77.0	77.0	77.0	77.0	77.0	78.0	78.0	78.0	76.0	74.0	70.0
65°	61.0	62.0	61.0	61.0	62.0	63.0	62.0	63.0	61.0	60.0	57.0
67.5°	47.0	48.0	47.0	48.0	48.0	49.0	48.0	49.0	47.0	46.0	44.0
70°	36.0	36.0	36.0	36.0	36.0	37.0	36.0	37.0	36.0	35.0	33.0
72.5°	27.0	27.0	28.0	28.0	27.0	28.0	27.0	27.0	27.0	26.0	25.0
75°	20.0	20.0	21.0	20.0	20.0	20.0	20.0	20.0	19.0	19.0	18.0
77.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.0	13.0	12.0
80°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0	8.0
82.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
85°	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	1.0	1.0	1.0	2.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0
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: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9
2.5°	845.9	848.9	848.9	845.9	852.9	846.9	858.9	847.9	850.9	860.9	859.9
5°	842.9	846.9	847.9	845.9	854.9	849.9	861.9	850.9	855.9	865.9	865.9
7.5°	838.9	843.9	845.9	847.9	855.9	850.9	864.9	853.9	860.9	872.9	871.9
10°	829.9	836.9	840.9	843.9	851.9	848.9	863.9	854.9	860.9	874.9	873.9
12.5°	824.9	832.9	838.9	843.9	852.9	850.9	865.9	857.9	865.9	879.9	879.9
15°	820.9	829.9	836.9	845.9	854.9	852.9	868.9	861.9	869.9	886.9	885.9
17.5°	810.9	821.9	828.9	838.9	847.9	846.9	863.9	858.9	867.9	883.9	884.9
20°	793.9	803.9	811.9	823.9	833.9	831.9	849.9	844.9	853.9	870.9	871.9
22.5°	771.9	781.9	789.9	802.9	811.9	810.9	828.9	823.9	832.9	848.9	849.9
25°	745.9	754.9	762.9	774.9	784.9	784.9	800.9	795.9	805.9	821.9	821.9
27.5°	713.9	721.9	728.9	742.9	750.9	750.9	765.9	760.9	770.9	784.9	783.9
30°	674.9	681.9	687.9	699.9	706.9	707.9	720.9	715.9	725.9	737.9	737.9
32.5°	627.9	634.9	638.9	653.9	658.9	657.9	667.9	662.9	672.9	685.9	682.9
35°	577.9	580.9	583.9	598.9	600.9	596.9	606.9	601.9	608.9	621.9	619.9
37.5°	520.9	521.9	521.9	534.9	535.9	532.9	538.9	532.9	537.9	549.9	548.9
40°	457.9	456.9	455.9	465.9	464.9	458.9	462.9	457.9	464.9	473.9	468.9
42.5°	393.9	390.9	386.9	391.9	387.9	383.0	385.0	377.0	382.0	388.9	383.0
45°	331.0	325.0	317.0	318.0	313.0	307.0	304.0	296.0	295.0	302.0	297.0
47.5°	272.0	260.0	253.0	249.0	241.0	236.0	230.0	221.0	217.0	221.0	216.0
50°	219.0	207.0	198.0	189.0	181.0	175.0	165.0	159.0	153.0	154.0	150.0
52.5°	173.0	165.0	150.0	143.0	135.0	128.0	119.0	112.0	105.0	105.0	101.0
55°	137.0	126.0	116.0	106.0	98.0	92.0	83.0	76.0	69.0	68.0	64.0
57.5°	106.0	98.0	87.0	77.0	72.0	66.0	57.0	49.0	45.0	42.0	39.0
60°	82.0	74.0	65.0	57.0	51.0	47.0	38.0	32.0	28.0	26.0	23.0
62.5°	66.0	59.0	51.0	43.0	39.0	35.0	28.0	23.0	19.0	17.0	15.0
65°	53.0	47.0	41.0	35.0	32.0	28.0	23.0	19.0	16.0	14.0	12.0
67.5°	41.0	37.0	32.0	28.0	25.0	22.0	18.0	15.0	13.0	11.0	10.0
70°	31.0	28.0	25.0	21.0	19.0	17.0	14.0	11.0	10.0	9.0	8.0
72.5°	24.0	21.0	18.0	16.0	14.0	13.0	11.0	9.0	8.0	7.0	6.0
75°	16.0	15.0	13.0	11.0	10.0	9.0	8.0	7.0	6.0	5.0	5.0
77.5°	11.0	10.0	9.0	8.0	7.0	7.0	6.0	5.0	4.0	4.0	3.0
80°	7.0	6.0	6.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	2.0
82.5°	5.0	4.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0
85°	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9
2.5°	851.9	860.9	860.9	868.9	869.9	867.9	858.9	858.9	870.9	877.9	865.9
5°	859.9	868.9	868.9	876.9	880.9	877.9	868.9	869.9	881.9	889.9	877.9
7.5°	866.9	875.9	877.9	886.9	889.9	886.9	877.9	879.9	892.9	899.9	887.9
10°	869.9	878.9	879.9	889.9	893.9	889.9	882.9	883.9	897.9	902.9	891.9
12.5°	876.9	885.9	885.9	896.9	900.9	897.9	888.9	890.9	904.9	909.9	898.9
15°	883.9	892.9	892.9	904.9	909.9	905.9	898.9	899.9	913.9	918.9	909.9
17.5°	883.9	891.9	891.9	904.9	909.9	906.9	898.9	899.9	914.9	918.9	909.9
20°	870.9	879.9	877.9	890.9	895.9	892.9	885.9	885.9	900.9	904.9	895.9
22.5°	849.9	857.9	855.9	867.9	873.9	869.9	863.9	862.9	877.9	881.9	872.9
25°	820.9	828.9	826.9	838.9	844.9	839.9	832.9	833.9	845.9	851.9	843.9
27.5°	786.9	791.9	788.9	800.9	806.9	801.9	794.9	795.9	807.9	811.9	805.9
30°	740.9	744.9	741.9	751.9	755.9	752.9	746.9	746.9	757.9	762.9	756.9
32.5°	685.9	688.9	685.9	693.9	701.9	695.9	689.9	689.9	701.9	705.9	698.9
35°	621.9	624.9	622.9	630.9	636.9	628.9	623.9	621.9	637.9	635.9	631.9
37.5°	550.9	552.9	546.9	560.9	563.9	554.9	550.9	548.9	562.9	561.9	557.9
40°	470.9	472.9	468.9	478.9	479.9	472.9	469.9	466.9	480.9	479.9	476.9
42.5°	385.9	386.9	382.0	389.9	391.9	385.0	384.0	380.0	392.9	390.9	389.9
45°	298.0	298.0	294.0	300.0	302.0	296.0	294.0	293.0	302.0	302.0	300.0
47.5°	216.0	213.0	208.0	217.0	218.0	214.0	213.0	210.0	219.0	219.0	217.0
50°	148.0	147.0	146.0	148.0	149.0	144.0	147.0	144.0	149.0	149.0	149.0
52.5°	99.0	98.0	96.0	98.0	98.0	95.0	95.0	94.0	98.0	98.0	96.0
55°	62.0	61.0	60.0	61.0	61.0	58.0	60.0	58.0	60.0	60.0	59.0
57.5°	38.0	36.0	36.0	35.0	35.0	33.0	34.0	34.0	34.0	34.0	34.0
60°	22.0	21.0	20.0	20.0	20.0	19.0	19.0	19.0	19.0	19.0	19.0
62.5°	14.0	14.0	13.0	13.0	13.0	13.0	13.0	12.0	13.0	13.0	13.0
65°	12.0	11.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0	10.0	10.0
67.5°	10.0	9.0	9.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0	8.0
70°	8.0	7.0	7.0	7.0	7.0	7.0	6.0	7.0	7.0	6.0	6.0
72.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	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: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9
2.5°	879.9	869.9	864.9	874.9	878.9	873.9	869.9	862.9	869.9	873.9	878.9
5°	891.9	882.9	878.9	885.9	891.9	886.9	883.9	876.9	883.9	886.9	891.9
7.5°	902.9	893.9	888.9	895.9	902.9	895.9	892.9	886.9	892.9	895.9	902.9
10°	906.9	896.9	892.9	898.9	905.9	898.9	894.9	890.9	894.9	898.9	905.9
12.5°	913.9	903.9	898.9	903.9	910.9	903.9	899.9	896.9	899.9	903.9	910.9
15°	923.9	914.9	908.9	913.9	922.9	914.9	909.9	908.9	909.9	914.9	922.9
17.5°	923.9	916.9	910.9	914.9	923.9	917.9	910.9	912.9	910.9	917.9	923.9
20°	910.9	903.9	898.9	898.9	911.9	903.9	897.9	900.9	897.9	903.9	911.9
22.5°	887.9	881.9	876.9	875.9	888.9	881.9	873.9	879.9	873.9	881.9	888.9
25°	857.9	851.9	847.9	845.9	858.9	850.9	843.9	849.9	843.9	850.9	858.9
27.5°	818.9	813.9	809.9	806.9	818.9	811.9	804.9	810.9	804.9	811.9	818.9
30°	768.9	765.9	761.9	757.9	769.9	762.9	755.9	763.9	755.9	762.9	769.9
32.5°	710.9	708.9	703.9	699.9	711.9	703.9	698.9	704.9	698.9	703.9	711.9
35°	643.9	640.9	637.9	630.9	643.9	636.9	636.9	638.9	636.9	636.9	643.9
37.5°	568.9	566.9	562.9	556.9	567.9	562.9	560.9	566.9	560.9	562.9	567.9
40°	484.9	483.9	480.9	473.9	485.9	480.9	477.9	485.9	477.9	480.9	485.9
42.5°	396.9	394.9	391.9	390.9	396.9	392.9	395.9	395.9	395.9	392.9	396.9
45°	306.0	304.0	302.0	298.0	305.0	303.0	302.0	304.0	302.0	303.0	305.0
47.5°	222.0	220.0	218.0	215.0	222.0	219.0	219.0	221.0	219.0	219.0	222.0
50°	149.0	150.0	149.0	147.0	149.0	148.0	149.0	151.0	149.0	148.0	149.0
52.5°	99.0	99.0	97.0	96.0	98.0	97.0	100.0	98.0	100.0	97.0	98.0
55°	60.0	61.0	60.0	59.0	60.0	59.0	62.0	61.0	62.0	59.0	60.0
57.5°	34.0	34.0	35.0	34.0	36.0	35.0	35.0	35.0	35.0	35.0	36.0
60°	19.0	19.0	19.0	19.0	19.0	19.0	20.0	19.0	20.0	19.0	19.0
62.5°	13.0	13.0	13.0	12.0	13.0	12.0	13.0	13.0	13.0	12.0	13.0
65°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
67.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9
2.5°	874.9	864.9	869.9	879.9	865.9	877.9	870.9	858.9	858.9	867.9	869.9
5°	885.9	878.9	882.9	891.9	877.9	889.9	881.9	869.9	868.9	877.9	880.9
7.5°	895.9	888.9	893.9	902.9	887.9	899.9	892.9	879.9	877.9	886.9	889.9
10°	898.9	892.9	896.9	906.9	891.9	902.9	897.9	883.9	882.9	889.9	893.9
12.5°	903.9	898.9	903.9	913.9	898.9	909.9	904.9	890.9	888.9	897.9	900.9
15°	913.9	908.9	914.9	923.9	909.9	918.9	913.9	899.9	898.9	905.9	909.9
17.5°	914.9	910.9	916.9	923.9	909.9	918.9	914.9	899.9	898.9	906.9	909.9
20°	898.9	898.9	903.9	910.9	895.9	904.9	900.9	885.9	885.9	892.9	895.9
22.5°	875.9	876.9	881.9	887.9	872.9	881.9	877.9	862.9	863.9	869.9	873.9
25°	845.9	847.9	851.9	857.9	843.9	851.9	845.9	833.9	832.9	839.9	844.9
27.5°	806.9	809.9	813.9	818.9	805.9	811.9	807.9	795.9	794.9	801.9	806.9
30°	757.9	761.9	765.9	768.9	756.9	762.9	757.9	746.9	746.9	752.9	755.9
32.5°	699.9	703.9	708.9	710.9	698.9	705.9	701.9	689.9	689.9	695.9	701.9
35°	630.9	637.9	640.9	643.9	631.9	635.9	637.9	621.9	623.9	628.9	636.9
37.5°	556.9	562.9	566.9	568.9	557.9	561.9	562.9	548.9	550.9	554.9	563.9
40°	473.9	480.9	483.9	484.9	476.9	479.9	480.9	466.9	469.9	472.9	479.9
42.5°	390.9	391.9	394.9	396.9	389.9	390.9	392.9	380.0	384.0	385.0	391.9
45°	298.0	302.0	304.0	306.0	300.0	302.0	302.0	293.0	294.0	296.0	302.0
47.5°	215.0	218.0	220.0	222.0	217.0	219.0	219.0	210.0	213.0	214.0	218.0
50°	147.0	149.0	150.0	149.0	149.0	149.0	149.0	144.0	147.0	144.0	149.0
52.5°	96.0	97.0	99.0	99.0	96.0	98.0	98.0	94.0	95.0	95.0	98.0
55°	59.0	60.0	61.0	60.0	59.0	60.0	60.0	58.0	60.0	58.0	61.0
57.5°	34.0	35.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	33.0	35.0
60°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	20.0
62.5°	12.0	13.0	13.0	13.0	13.0	13.0	13.0	12.0	13.0	13.0	13.0
65°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0
67.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0
70°	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	7.0	7.0
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0
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: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9
2.5°	868.9	860.9	860.9	851.9	859.9	860.9	850.9	847.9	858.9	846.9	852.9
5°	876.9	868.9	868.9	859.9	865.9	865.9	855.9	850.9	861.9	849.9	854.9
7.5°	886.9	877.9	875.9	866.9	871.9	872.9	860.9	853.9	864.9	850.9	855.9
10°	889.9	879.9	878.9	869.9	873.9	874.9	860.9	854.9	863.9	848.9	851.9
12.5°	896.9	885.9	885.9	876.9	879.9	879.9	865.9	857.9	865.9	850.9	852.9
15°	904.9	892.9	892.9	883.9	885.9	886.9	869.9	861.9	868.9	852.9	854.9
17.5°	904.9	891.9	891.9	883.9	884.9	883.9	867.9	858.9	863.9	846.9	847.9
20°	890.9	877.9	879.9	870.9	871.9	870.9	853.9	844.9	849.9	831.9	833.9
22.5°	867.9	855.9	857.9	849.9	849.9	848.9	832.9	823.9	828.9	810.9	811.9
25°	838.9	826.9	828.9	820.9	821.9	821.9	805.9	795.9	800.9	784.9	784.9
27.5°	800.9	788.9	791.9	786.9	783.9	784.9	770.9	760.9	765.9	750.9	750.9
30°	751.9	741.9	744.9	740.9	737.9	737.9	725.9	715.9	720.9	707.9	706.9
32.5°	693.9	685.9	688.9	685.9	682.9	685.9	672.9	662.9	667.9	657.9	658.9
35°	630.9	622.9	624.9	621.9	619.9	621.9	608.9	601.9	606.9	596.9	600.9
37.5°	560.9	546.9	552.9	550.9	548.9	549.9	537.9	532.9	538.9	532.9	535.9
40°	478.9	468.9	472.9	470.9	468.9	473.9	464.9	457.9	462.9	458.9	464.9
42.5°	389.9	382.0	386.9	385.9	383.0	388.9	382.0	377.0	385.0	383.0	387.9
45°	300.0	294.0	298.0	298.0	297.0	302.0	295.0	296.0	304.0	307.0	313.0
47.5°	217.0	208.0	213.0	216.0	216.0	221.0	217.0	221.0	230.0	236.0	241.0
50°	148.0	146.0	147.0	148.0	150.0	154.0	153.0	159.0	165.0	175.0	181.0
52.5°	98.0	96.0	98.0	99.0	101.0	105.0	105.0	112.0	119.0	128.0	135.0
55°	61.0	60.0	61.0	62.0	64.0	68.0	69.0	76.0	83.0	92.0	98.0
57.5°	35.0	36.0	36.0	38.0	39.0	42.0	45.0	49.0	57.0	66.0	72.0
60°	20.0	20.0	21.0	22.0	23.0	26.0	28.0	32.0	38.0	47.0	51.0
62.5°	13.0	13.0	14.0	14.0	15.0	17.0	19.0	23.0	28.0	35.0	39.0
65°	11.0	11.0	11.0	12.0	12.0	14.0	16.0	19.0	23.0	28.0	32.0
67.5°	9.0	9.0	9.0	10.0	10.0	11.0	13.0	15.0	18.0	22.0	25.0
70°	7.0	7.0	7.0	8.0	8.0	9.0	10.0	11.0	14.0	17.0	19.0
72.5°	5.0	5.0	6.0	6.0	6.0	7.0	8.0	9.0	11.0	13.0	14.0
75°	4.0	4.0	4.0	4.0	5.0	5.0	6.0	7.0	8.0	9.0	10.0
77.5°	2.0	2.0	3.0	3.0	3.0	4.0	4.0	5.0	6.0	7.0	7.0
80°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	4.0	5.0	5.0
82.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	3.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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	0.0	0.0	0.0



TEST NUMBER: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9	858.9
2.5°	845.9	848.9	848.9	845.9	837.9	844.9	851.9	844.9	853.9	837.9	837.9
5°	845.9	847.9	846.9	842.9	834.9	840.9	845.9	838.9	845.9	830.9	829.9
7.5°	847.9	845.9	843.9	838.9	828.9	832.9	837.9	829.9	836.9	820.9	818.9
10°	843.9	840.9	836.9	829.9	818.9	821.9	824.9	817.9	822.9	806.9	805.9
12.5°	843.9	838.9	832.9	824.9	812.9	814.9	817.9	808.9	812.9	797.9	795.9
15°	845.9	836.9	829.9	820.9	807.9	808.9	810.9	800.9	804.9	788.9	787.9
17.5°	838.9	828.9	821.9	810.9	796.9	797.9	797.9	787.9	790.9	774.9	773.9
20°	823.9	811.9	803.9	793.9	778.9	778.9	778.9	768.9	770.9	756.9	754.9
22.5°	802.9	789.9	781.9	771.9	757.9	756.9	755.9	747.9	747.9	734.9	731.9
25°	774.9	762.9	754.9	745.9	731.9	729.9	729.9	722.9	721.9	709.9	707.9
27.5°	742.9	728.9	721.9	713.9	700.9	698.9	697.9	693.9	691.9	678.9	677.9
30°	699.9	687.9	681.9	674.9	662.9	660.9	659.9	655.9	654.9	641.9	641.9
32.5°	653.9	638.9	634.9	627.9	618.9	617.9	618.9	613.9	609.9	600.9	598.9
35°	598.9	583.9	580.9	577.9	570.9	568.9	567.9	566.9	561.9	555.9	552.9
37.5°	534.9	521.9	521.9	520.9	515.9	515.9	515.9	513.9	508.9	506.9	500.9
40°	465.9	455.9	456.9	457.9	455.9	456.9	457.9	455.9	451.9	449.9	444.9
42.5°	391.9	386.9	390.9	393.9	393.9	396.9	398.9	398.9	393.9	392.9	388.9
45°	318.0	317.0	325.0	331.0	333.0	338.0	341.0	339.0	339.0	339.0	335.0
47.5°	249.0	253.0	260.0	272.0	276.0	282.0	284.0	287.0	286.0	287.0	284.0
50°	189.0	198.0	207.0	219.0	225.0	232.0	235.0	239.0	239.0	240.0	238.0
52.5°	143.0	150.0	165.0	173.0	180.0	187.0	191.0	195.0	196.0	196.0	194.0
55°	106.0	116.0	126.0	137.0	143.0	150.0	153.0	157.0	157.0	159.0	157.0
57.5°	77.0	87.0	98.0	106.0	113.0	118.0	121.0	124.0	126.0	126.0	125.0
60°	57.0	65.0	74.0	82.0	88.0	93.0	95.0	98.0	99.0	99.0	97.0
62.5°	43.0	51.0	59.0	66.0	70.0	74.0	76.0	78.0	78.0	78.0	77.0
65°	35.0	41.0	47.0	53.0	57.0	60.0	61.0	63.0	62.0	63.0	62.0
67.5°	28.0	32.0	37.0	41.0	44.0	46.0	47.0	49.0	48.0	49.0	48.0
70°	21.0	25.0	28.0	31.0	33.0	35.0	36.0	37.0	36.0	37.0	36.0
72.5°	16.0	18.0	21.0	24.0	25.0	26.0	27.0	27.0	27.0	28.0	27.0
75°	11.0	13.0	15.0	16.0	18.0	19.0	19.0	20.0	20.0	20.0	20.0
77.5°	8.0	9.0	10.0	11.0	12.0	13.0	13.0	14.0	14.0	14.0	14.0
80°	5.0	6.0	6.0	7.0	8.0	8.0	9.0	9.0	9.0	9.0	9.0
82.5°	3.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0
85°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0
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: P212785

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	858.9	858.9	858.9	858.9
2.5°	845.9	840.9	848.9	836.9
5°	836.9	831.9	841.9	826.9
7.5°	825.9	820.9	829.9	814.9
10°	811.9	806.9	814.9	798.9
12.5°	799.9	794.9	803.9	788.9
15°	790.9	785.9	793.9	779.9
17.5°	776.9	770.9	779.9	764.9
20°	756.9	752.9	759.9	744.9
22.5°	733.9	729.9	737.9	722.9
25°	709.9	704.9	712.9	697.9
27.5°	678.9	674.9	682.9	667.9
30°	641.9	637.9	645.9	631.9
32.5°	599.9	595.9	601.9	589.9
35°	551.9	548.9	554.9	541.9
37.5°	499.9	496.9	502.9	489.9
40°	443.9	440.9	445.9	439.9
42.5°	388.9	385.9	390.9	385.9
45°	335.0	333.0	338.0	333.0
47.5°	285.0	283.0	288.0	283.0
50°	237.0	238.0	240.0	238.0
52.5°	194.0	194.0	197.0	194.0
55°	157.0	158.0	159.0	157.0
57.5°	125.0	125.0	126.0	125.0
60°	97.0	98.0	98.0	97.0
62.5°	77.0	77.0	77.0	77.0
65°	61.0	61.0	62.0	61.0
67.5°	48.0	47.0	48.0	47.0
70°	36.0	36.0	36.0	36.0
72.5°	28.0	28.0	27.0	27.0
75°	20.0	21.0	20.0	20.0
77.5°	14.0	14.0	14.0	14.0
80°	9.0	9.0	9.0	9.0
82.5°	6.0	6.0	6.0	6.0
85°	4.0	3.0	3.0	3.0
87.5°	2.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°





















(END OF REPORT)