

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: P252148

Luminaire Tested: **LD6B15D010 EU6B10209030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1594.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

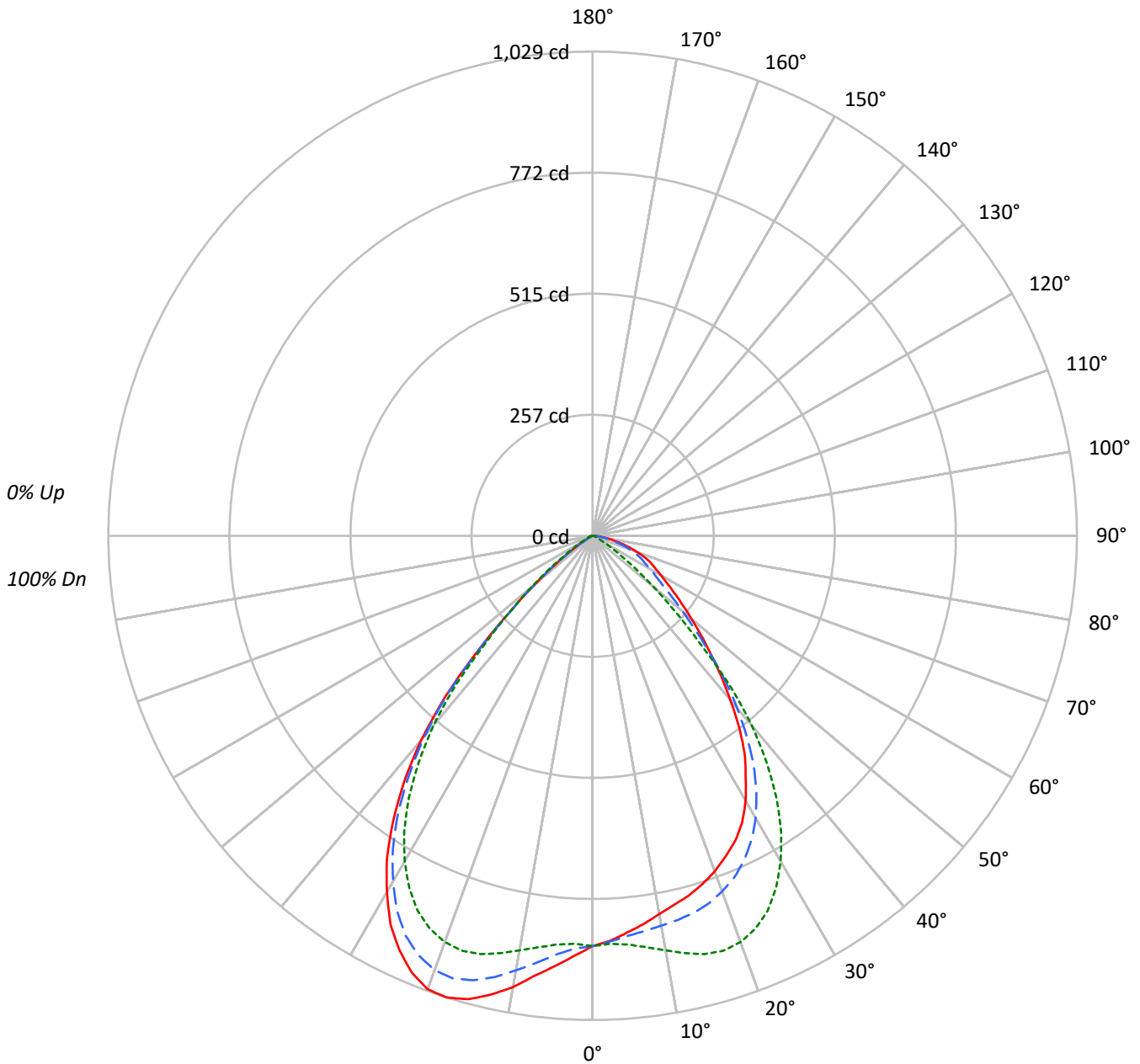
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252148

CATALOG NUMBER: LD6B15D010 EU6B10209030 6LBSW1LI

Luminous Intensity Polar Plot





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CATALOG NUMBER: LD6B15D010 EU6B10209030 6LBSW1LI

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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56890	56890	56890
5°	55417	57107	60113
10°	54071	59265	64511
15°	53439	62166	68866
20°	52675	63783	71191
25°	51549	63311	69919
30°	48989	60169	65819
35°	44816	54246	58761
40°	38767	44806	48212
45°	32689	29386	31536
50°	27759	17011	15996
55°	24091	8155	6165
60°	21751	3810	1527
65°	21103	2192	509
70°	18922	1755	477
75°	15553	1260	202
80°	11572	639	0
85°	9956	0	0



TEST NUMBER: P252148

CATALOG NUMBER: LD6B15D010 EU6B10209030 6LBSW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	5.3
10°-20°	256.7	16.1
20°-30°	392.2	24.6
30°-40°	410.2	25.7
40°-50°	266.1	16.7
50°-60°	105.7	6.6
60°-70°	50.1	3.1
70°-80°	23.8	1.5
80°-90°	4.9	0.3
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°	733.2	46.0
0°-40°	1143.4	71.7
0°-60°	1515.2	95.1
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	872	872	872	872	872	
5°	846	854	872	894	918	80
15°	791	830	920	978	1020	223
25°	716	761	880	939	971	328
35°	563	597	681	721	738	348
45°	354	351	318	338	342	276
55°	212	180	72	56	54	192
65°	137	113	14	3	3	134
75°	62	50	5	2	1	67
85°	13	8	0	0	0	16
90°	0	0	0	0	0	



TEST NUMBER: P252148

CATALOG NUMBER: LD6B15D010 EU6B10209030 6LBSW1LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	861.2	862.9	853.7	851.2	857.9	860.4	861.2	858.7	859.5	862.9	862.9
5°	846.2	847.9	839.5	837.0	843.7	845.4	847.9	847.0	849.5	854.5	853.7
7.5°	832.0	834.5	825.4	822.0	830.4	834.5	836.2	836.2	839.5	846.2	847.0
10°	816.2	819.5	811.2	809.5	818.7	822.9	823.7	825.4	830.4	839.5	841.2
12.5°	802.8	806.2	800.3	797.8	807.8	812.0	813.7	817.0	822.9	834.5	836.2
15°	791.2	793.7	787.0	785.3	795.3	800.3	801.2	806.2	813.7	827.0	829.5
17.5°	776.2	777.8	772.8	771.2	781.2	786.2	787.0	792.8	802.0	815.4	819.5
20°	758.7	760.3	755.3	753.7	763.7	769.5	770.3	775.3	786.2	800.3	804.5
22.5°	737.8	741.2	735.3	733.7	743.7	748.7	751.2	755.3	766.2	780.3	786.2
25°	716.1	716.1	712.0	711.1	720.3	726.1	725.3	731.1	742.0	756.2	761.2
27.5°	687.8	687.0	682.8	682.0	692.0	697.0	695.3	701.1	711.1	725.3	730.3
30°	650.3	651.9	646.1	644.4	652.8	661.1	660.3	666.1	676.1	689.5	692.8
32.5°	605.3	606.9	606.1	603.6	611.1	615.3	617.8	621.9	630.3	644.4	647.8
35°	562.7	560.2	556.9	556.9	564.4	571.1	568.6	573.6	581.9	596.1	596.9
37.5°	510.2	509.4	507.7	506.1	514.4	516.1	516.9	520.2	527.7	539.4	537.7
40°	455.2	456.0	455.2	451.9	456.9	463.5	462.7	464.4	471.0	479.4	476.9
42.5°	403.5	403.5	403.5	400.2	406.0	409.3	411.0	410.2	411.8	419.3	416.0
45°	354.3	355.2	354.3	353.5	354.3	356.0	354.3	353.5	353.5	356.0	351.0
47.5°	311.8	311.8	309.3	306.8	309.3	310.1	307.6	305.1	304.3	303.5	295.1
50°	273.5	272.6	271.8	267.6	270.1	271.0	267.6	265.9	262.6	258.4	248.4
52.5°	240.1	239.3	238.4	234.3	235.9	236.8	233.4	230.1	225.9	222.6	210.1
55°	211.8	210.9	210.9	208.4	206.8	208.4	205.1	202.6	196.8	192.6	180.1
57.5°	187.6	187.6	185.9	183.4	184.2	184.2	180.9	177.6	172.6	167.6	157.6
60°	166.7	166.7	166.7	164.2	164.2	164.2	162.6	159.2	155.1	150.1	140.1
62.5°	150.1	150.1	149.2	146.7	147.6	147.6	145.9	142.6	138.4	135.1	125.1
65°	136.7	136.7	136.7	134.2	134.2	135.1	133.4	130.1	126.7	122.6	113.4
67.5°	120.1	119.2	119.2	117.6	118.4	119.2	117.6	115.0	110.9	108.4	100.0
70°	99.2	100.0	100.9	98.4	99.2	99.2	98.4	95.9	93.4	90.9	83.4
72.5°	80.9	80.9	80.0	79.2	79.2	80.0	78.4	75.9	74.2	72.5	66.7
75°	61.7	60.9	61.7	60.0	60.0	60.0	58.4	57.5	56.7	54.2	50.0
77.5°	45.0	44.2	44.2	42.5	43.4	43.4	42.5	40.9	39.2	38.3	35.0
80°	30.8	30.8	30.8	30.0	30.0	29.2	29.2	28.3	26.7	25.8	24.2
82.5°	20.8	20.8	20.8	20.0	20.0	20.0	19.2	18.3	17.5	16.7	15.0
85°	13.3	13.3	13.3	12.5	12.5	12.5	11.7	11.7	10.8	10.0	8.3
87.5°	7.5	7.5	7.5	6.7	6.7	6.7	6.7	6.7	5.8	5.0	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: P252148

CATALOG NUMBER: LD6B15D010 EU6B10209030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	868.7	857.0	864.5	864.5	862.0	868.7	872.9	876.2	875.4	867.9	867.0
5°	862.0	852.0	860.4	861.2	858.7	867.9	873.7	877.9	878.7	872.0	872.9
7.5°	857.0	848.7	859.5	862.9	862.0	870.4	877.0	883.7	887.1	882.0	882.9
10°	854.5	847.9	859.5	864.5	865.4	874.5	884.5	893.7	897.9	894.6	897.1
12.5°	851.2	847.0	860.4	867.9	871.2	880.4	892.9	903.7	910.4	908.7	913.7
15°	847.9	844.5	860.4	871.2	875.4	883.7	897.9	913.7	921.2	920.4	927.1
17.5°	839.5	838.7	855.4	867.0	872.9	882.9	896.2	915.4	922.9	924.6	932.9
20°	826.2	826.2	844.5	857.0	863.7	872.9	889.6	907.9	917.1	918.7	927.9
22.5°	807.8	809.5	827.0	839.5	849.5	856.2	873.7	892.9	901.2	903.7	913.7
25°	783.7	785.3	802.0	814.5	825.4	832.9	849.5	867.0	877.0	879.5	887.1
27.5°	752.0	755.3	771.2	783.7	792.8	797.8	815.4	833.7	841.2	843.7	851.2
30°	715.3	716.1	732.0	742.8	752.0	756.2	771.2	790.3	796.2	798.7	809.5
32.5°	670.3	669.5	684.5	694.5	702.0	707.0	722.8	735.3	741.2	745.3	751.2
35°	616.1	615.3	626.1	637.8	643.6	645.3	661.1	674.5	677.8	681.1	688.6
37.5°	555.2	555.2	564.4	570.2	576.9	579.4	586.9	601.9	607.8	606.9	612.8
40°	491.0	487.7	494.4	500.2	501.9	502.7	510.2	521.9	526.1	526.1	530.2
42.5°	423.5	418.5	419.3	422.7	424.4	418.5	423.5	431.0	428.5	431.9	432.7
45°	351.8	344.3	341.0	333.5	335.1	329.3	326.0	327.6	326.8	318.5	320.1
47.5°	293.5	280.1	274.3	263.4	260.9	254.3	250.1	242.6	235.9	235.9	231.8
50°	244.3	230.9	219.3	206.8	202.6	196.8	187.6	177.6	172.6	167.6	163.4
52.5°	205.1	190.9	176.7	163.4	157.6	150.1	137.6	127.6	118.4	113.4	108.4
55°	173.4	157.6	142.6	128.4	120.9	113.4	100.9	89.2	78.4	71.7	67.5
57.5°	149.2	134.2	118.4	103.4	96.7	88.4	75.0	62.5	52.5	45.0	40.9
60°	131.7	116.7	102.5	86.7	80.0	71.7	57.5	45.9	35.8	29.2	24.2
62.5°	116.7	103.4	88.4	74.2	67.5	59.2	45.9	34.2	25.0	18.3	14.2
65°	105.9	92.5	80.0	65.9	60.0	51.7	39.2	28.3	20.0	14.2	10.0
67.5°	93.4	81.7	69.2	57.5	51.7	45.0	33.3	24.2	16.7	11.7	8.3
70°	78.4	69.2	58.4	47.5	43.4	37.5	27.5	20.0	13.3	9.2	6.7
72.5°	62.5	55.0	46.7	38.3	35.0	29.2	22.5	15.8	10.0	6.7	5.0
75°	47.5	41.7	35.0	29.2	25.8	22.5	16.7	11.7	7.5	5.0	3.3
77.5°	32.5	30.0	25.0	20.0	18.3	15.8	10.8	7.5	5.0	3.3	1.7
80°	22.5	20.0	16.7	13.3	11.7	10.0	6.7	5.0	2.5	1.7	0.8
82.5°	14.2	11.7	10.0	8.3	7.5	5.8	4.2	2.5	1.7	0.8	0.8
85°	7.5	6.7	5.8	4.2	4.2	3.3	2.5	1.7	0.8	0.0	0.0
87.5°	4.2	3.3	2.5	1.7	1.7	0.8	0.8	0.8	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: P252148

CATALOG NUMBER: LD6B15D010 EU6B10209030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	877.0	877.0	876.2	886.2	874.5	886.2	880.4	886.2	877.9	877.0	877.9
5°	883.7	886.2	887.1	896.2	885.4	899.6	894.6	899.6	893.7	895.4	897.9
7.5°	897.1	901.2	900.4	912.1	901.2	917.1	913.7	921.2	915.4	917.1	920.4
10°	912.1	917.1	917.9	929.6	919.6	938.7	934.6	942.9	937.9	940.4	944.6
12.5°	929.6	935.4	936.2	949.6	938.7	958.7	956.2	964.6	960.4	962.9	967.9
15°	942.9	951.2	952.9	966.3	954.6	975.4	973.8	984.6	977.9	982.1	986.3
17.5°	949.6	957.1	960.4	972.9	962.9	983.8	982.1	991.3	986.3	990.4	995.4
20°	945.4	954.6	957.1	969.6	959.6	980.4	977.9	987.1	982.1	985.4	990.4
22.5°	930.4	939.6	942.9	954.6	945.4	964.6	963.8	972.1	965.4	969.6	973.8
25°	903.7	913.7	915.4	926.2	916.2	936.2	934.6	943.7	938.7	941.2	947.1
27.5°	865.4	877.0	879.5	888.7	881.2	897.9	897.9	905.4	899.6	899.6	905.4
30°	819.5	831.2	832.9	840.4	833.7	848.7	849.5	857.0	847.9	852.9	853.7
32.5°	763.7	771.2	776.2	782.8	772.8	792.0	789.5	795.3	790.3	790.3	794.5
35°	696.1	705.3	707.8	716.1	707.8	722.8	722.8	726.1	721.1	721.1	727.8
37.5°	622.8	629.4	630.3	638.6	631.9	644.4	643.6	646.1	641.1	644.4	644.4
40°	536.9	541.9	543.6	547.7	546.9	556.1	555.2	556.9	554.4	555.2	556.9
42.5°	436.9	443.5	446.9	450.2	445.2	457.7	455.2	457.7	456.9	457.7	460.2
45°	321.8	326.8	329.3	330.1	328.5	336.0	341.8	336.8	337.6	336.0	339.3
47.5°	232.6	233.4	231.8	236.8	232.6	235.9	237.6	238.4	233.4	232.6	235.9
50°	159.2	163.4	157.6	160.1	159.2	162.6	160.9	161.7	156.7	159.2	157.6
52.5°	105.9	105.0	103.4	104.2	102.5	102.5	102.5	104.2	100.9	99.2	97.5
55°	64.2	62.5	59.2	58.4	58.4	59.2	57.5	55.9	55.9	55.0	55.0
57.5°	37.5	35.0	33.3	32.5	30.8	30.0	29.2	29.2	27.5	27.5	27.5
60°	20.8	18.3	16.7	15.0	15.0	14.2	13.3	12.5	12.5	12.5	11.7
62.5°	10.8	9.2	7.5	6.7	6.7	5.8	5.0	5.0	5.0	5.0	4.2
65°	7.5	5.8	5.0	4.2	4.2	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	5.8	5.0	4.2	3.3	3.3	3.3	2.5	2.5	2.5	2.5	2.5
70°	5.0	3.3	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	3.3	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	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: P252148

CATALOG NUMBER: LD6B15D010 EU6B10209030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	872.0	872.0	872.0	872.0	872.0	872.0	872.0	872.0
2.5°	885.4	884.5	885.4	887.1	883.7	893.7	888.7	893.7
5°	904.6	905.4	906.2	908.7	904.6	917.1	910.4	917.9
7.5°	929.6	930.4	931.2	933.7	931.2	943.7	936.2	942.9
10°	955.4	957.1	957.1	961.2	958.7	970.4	965.4	973.8
12.5°	979.6	981.3	982.9	985.4	983.8	996.3	992.1	998.8
15°	998.8	1002.1	1002.9	1006.3	1004.6	1017.9	1012.9	1019.6
17.5°	1007.9	1011.3	1011.3	1015.4	1013.8	1027.9	1021.3	1028.8
20°	1002.9	1005.4	1006.3	1010.4	1008.8	1022.9	1016.3	1025.4
22.5°	987.1	987.9	988.8	992.9	992.1	1004.6	998.8	1004.6
25°	957.9	960.4	959.6	962.9	962.9	972.9	966.3	971.3
27.5°	916.2	918.7	918.7	922.9	919.6	929.6	922.9	930.4
30°	865.4	867.9	866.2	869.5	866.2	876.2	871.2	873.7
32.5°	804.5	804.5	805.3	806.2	804.5	813.7	808.7	813.7
35°	732.0	733.7	734.5	735.3	733.7	740.3	734.5	737.8
37.5°	650.3	654.4	653.6	654.4	651.9	660.3	655.3	657.0
40°	562.7	562.7	561.9	563.6	561.1	567.7	564.4	566.1
42.5°	461.0	463.5	460.2	464.4	457.7	466.9	463.5	461.0
45°	346.0	342.6	341.8	342.6	340.1	341.0	343.5	341.8
47.5°	235.9	235.9	234.3	231.8	235.1	235.9	232.6	232.6
50°	158.4	158.4	156.7	155.9	157.6	156.7	155.1	157.6
52.5°	100.9	97.5	97.5	99.2	97.5	95.9	98.4	96.7
55°	55.0	53.4	53.4	55.0	53.4	53.4	52.5	54.2
57.5°	26.7	27.5	26.7	26.7	26.7	26.7	25.8	26.7
60°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
62.5°	5.0	5.0	4.2	4.2	4.2	4.2	4.2	4.2
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	2.5	2.5	2.5	2.5	2.5	3.3	2.5	2.5
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	2.5	2.5	3.3	3.3	3.3	3.3	3.3	3.3
75°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)