

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684724

Luminaire Tested: **LX6C10D010 EX6109027 6LCSWLI**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P684724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C10D010 EX6109027 6LCSWLI
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

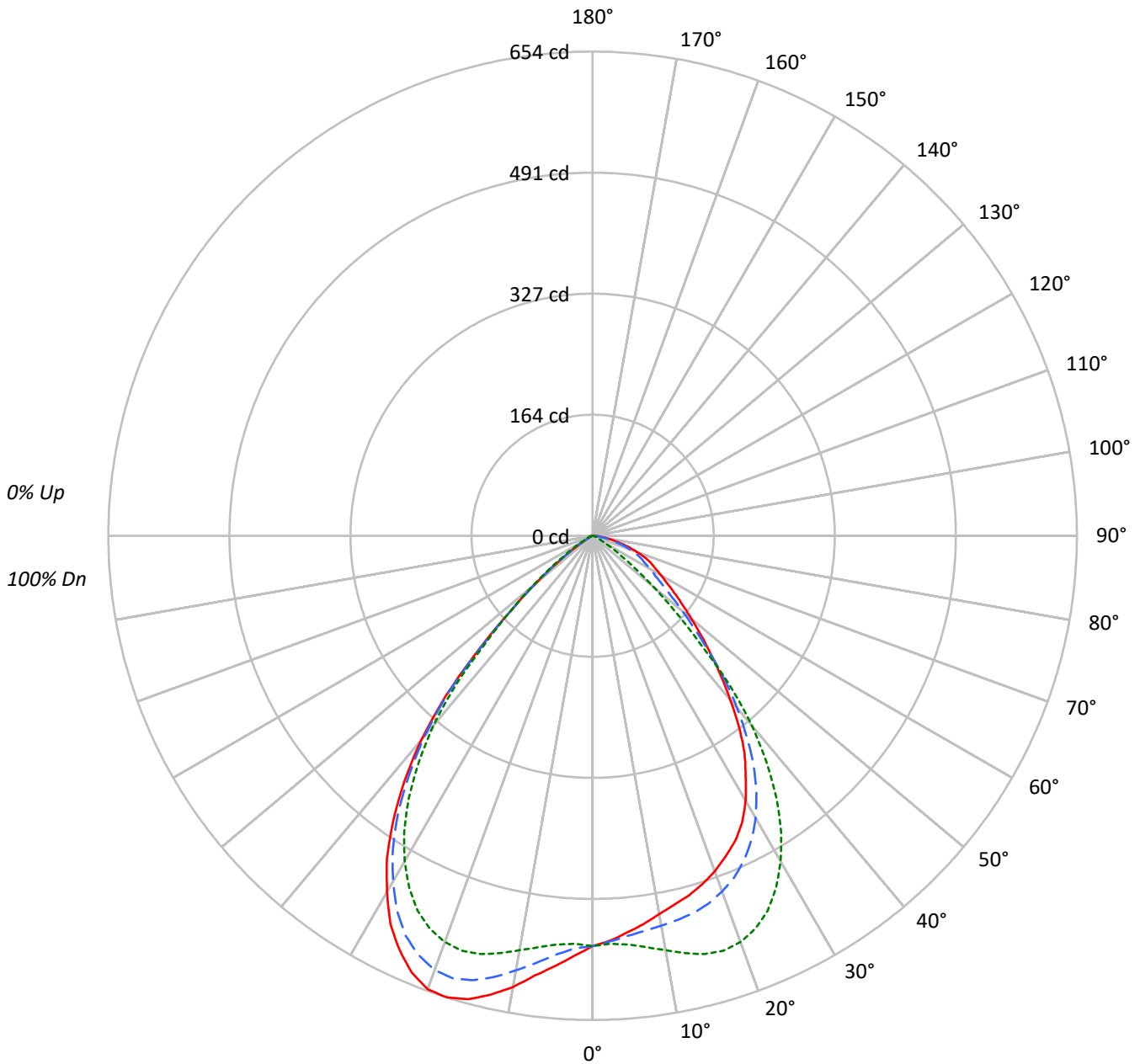
Lumens per Lamp: N/A
Luminaire Lumens: 1013.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V):
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: P684724

CATALOG NUMBER: LX6C10D010 EX6109027 6LCSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P684724

CATALOG NUMBER: LX6C10D010 EX6109027 6LCSWLI

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°	30381	30381	30381
5°	29595	30497	32099
10°	28874	31646	34446
15°	28536	33195	36777
20°	28125	34064	38019
25°	27528	33812	37333
30°	26162	32132	35145
35°	23932	28971	31380
40°	20703	23923	25741
45°	17459	15692	16839
50°	14823	9083	8537
55°	12865	4358	3288
60°	11622	2028	811
65°	11272	1167	272
70°	10098	930	256
75°	8303	678	106
80°	6188	347	0
85°	5346	0	0



TEST NUMBER: P684724

CATALOG NUMBER: LX6C10D010 EX6109027 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	5.3
10°-20°	163.1	16.1
20°-30°	249.3	24.6
30°-40°	260.7	25.7
40°-50°	169.1	16.7
50°-60°	67.1	6.6
60°-70°	31.9	3.1
70°-80°	15.2	1.5
80°-90°	3.1	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°	465.9	46.0
0°-40°	726.6	71.7
0°-60°	962.9	95.1
0°-90°	1013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1013.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	554	554	554	554	554	
5°	538	542	554	568	583	51
15°	503	527	585	622	648	142
25°	455	484	559	597	617	208
35°	358	379	433	458	469	221
45°	225	223	202	215	217	175
55°	135	114	46	36	34	122
65°	87	72	9	2	2	85
75°	39	32	3	1	0	42
85°	8	5	0	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P684724

CATALOG NUMBER: LX6C10D010 EX6109027 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	547.3	548.4	542.5	541.0	545.2	546.8	547.3	545.7	546.2	548.4	548.4
5°	537.8	538.8	533.5	531.9	536.2	537.2	538.8	538.3	539.9	543.1	542.5
7.5°	528.8	530.4	524.5	522.4	527.7	530.4	531.4	531.4	533.5	537.8	538.3
10°	518.7	520.8	515.5	514.4	520.3	522.9	523.5	524.5	527.7	533.5	534.6
12.5°	510.2	512.3	508.6	507.0	513.4	516.0	517.1	519.2	522.9	530.4	531.4
15°	502.8	504.4	500.1	499.1	505.4	508.6	509.1	512.3	517.1	525.6	527.2
17.5°	493.3	494.3	491.1	490.1	496.4	499.6	500.1	503.9	509.7	518.2	520.8
20°	482.1	483.2	480.0	479.0	485.3	489.0	489.6	492.7	499.6	508.6	511.3
22.5°	468.9	471.0	467.3	466.2	472.6	475.8	477.4	480.0	486.9	495.9	499.6
25°	455.1	455.1	452.5	451.9	457.8	461.5	460.9	464.6	471.5	480.6	483.7
27.5°	437.1	436.6	433.9	433.4	439.7	442.9	441.9	445.6	451.9	460.9	464.1
30°	413.3	414.3	410.6	409.5	414.9	420.2	419.6	423.3	429.7	438.2	440.3
32.5°	384.6	385.7	385.2	383.6	388.4	391.0	392.6	395.2	400.5	409.5	411.7
35°	357.6	356.0	353.9	353.9	358.7	362.9	361.3	364.5	369.8	378.8	379.4
37.5°	324.3	323.7	322.7	321.6	326.9	328.0	328.5	330.6	335.4	342.8	341.7
40°	289.3	289.8	289.3	287.2	290.3	294.6	294.0	295.1	299.3	304.6	303.1
42.5°	256.4	256.4	256.4	254.3	258.0	260.1	261.2	260.7	261.7	266.5	264.4
45°	225.2	225.7	225.2	224.6	225.2	226.2	225.2	224.6	224.6	226.2	223.1
47.5°	198.2	198.2	196.6	195.0	196.6	197.1	195.5	193.9	193.4	192.9	187.6
50°	173.8	173.2	172.7	170.1	171.7	172.2	170.1	169.0	166.9	164.2	157.9
52.5°	152.6	152.1	151.5	148.9	149.9	150.5	148.4	146.2	143.6	141.5	133.5
55°	134.6	134.0	134.0	132.5	131.4	132.5	130.3	128.7	125.0	122.4	114.4
57.5°	119.2	119.2	118.1	116.6	117.1	117.1	115.0	112.8	109.7	106.5	100.1
60°	106.0	106.0	106.0	104.4	104.4	104.4	103.3	101.2	98.6	95.4	89.0
62.5°	95.4	95.4	94.8	93.3	93.8	93.8	92.7	90.6	88.0	85.8	79.5
65°	86.9	86.9	86.9	85.3	85.3	85.8	84.8	82.7	80.5	77.9	72.0
67.5°	76.3	75.8	75.8	74.7	75.2	75.8	74.7	73.1	70.5	68.9	63.6
70°	63.0	63.6	64.1	62.5	63.0	63.0	62.5	60.9	59.3	57.7	53.0
72.5°	51.4	51.4	50.9	50.3	50.3	50.9	49.8	48.2	47.2	46.1	42.4
75°	39.2	38.7	39.2	38.2	38.2	38.2	37.1	36.6	36.0	34.4	31.8
77.5°	28.6	28.1	28.1	27.0	27.6	27.6	27.0	26.0	24.9	24.4	22.2
80°	19.6	19.6	19.6	19.1	19.1	18.5	18.5	18.0	16.9	16.4	15.4
82.5°	13.2	13.2	13.2	12.7	12.7	12.7	12.2	11.6	11.1	10.6	9.5
85°	8.5	8.5	8.5	7.9	7.9	7.9	7.4	7.4	6.9	6.4	5.3
87.5°	4.8	4.8	4.8	4.2	4.2	4.2	4.2	4.2	3.7	3.2	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: P684724

CATALOG NUMBER: LX6C10D010 EX6109027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	552.1	544.7	549.4	549.4	547.8	552.1	554.7	556.8	556.3	551.5	551.0
5°	547.8	541.5	546.8	547.3	545.7	551.5	555.2	557.9	558.4	554.2	554.7
7.5°	544.7	539.4	546.2	548.4	547.8	553.1	557.4	561.6	563.7	560.5	561.1
10°	543.1	538.8	546.2	549.4	550.0	555.8	562.1	568.0	570.6	568.5	570.1
12.5°	541.0	538.3	546.8	551.5	553.7	559.5	567.4	574.3	578.6	577.5	580.7
15°	538.8	536.7	546.8	553.7	556.3	561.6	570.6	580.7	585.5	584.9	589.2
17.5°	533.5	533.0	543.6	551.0	554.7	561.1	569.5	581.7	586.5	587.6	592.9
20°	525.1	525.1	536.7	544.7	548.9	554.7	565.3	577.0	582.8	583.9	589.7
22.5°	513.4	514.4	525.6	533.5	539.9	544.1	555.2	567.4	572.7	574.3	580.7
25°	498.0	499.1	509.7	517.6	524.5	529.3	539.9	551.0	557.4	559.0	563.7
27.5°	477.9	480.0	490.1	498.0	503.9	507.0	518.2	529.8	534.6	536.2	541.0
30°	454.6	455.1	465.2	472.1	477.9	480.6	490.1	502.3	506.0	507.6	514.4
32.5°	426.0	425.5	435.0	441.3	446.1	449.3	459.3	467.3	471.0	473.7	477.4
35°	391.5	391.0	397.9	405.3	409.0	410.1	420.2	428.6	430.7	432.9	437.6
37.5°	352.9	352.9	358.7	362.4	366.6	368.2	373.0	382.5	386.2	385.7	389.4
40°	312.1	310.0	314.2	317.9	319.0	319.5	324.3	331.7	334.3	334.3	337.0
42.5°	269.2	266.0	266.5	268.6	269.7	266.0	269.2	273.9	272.3	274.4	275.0
45°	223.6	218.8	216.7	211.9	213.0	209.3	207.2	208.2	207.7	202.4	203.5
47.5°	186.5	178.0	174.3	167.4	165.8	161.6	158.9	154.2	149.9	149.9	147.3
50°	155.2	146.8	139.3	131.4	128.7	125.0	119.2	112.8	109.7	106.5	103.8
52.5°	130.3	121.3	112.3	103.8	100.1	95.4	87.4	81.1	75.2	72.0	68.9
55°	110.2	100.1	90.6	81.6	76.8	72.0	64.1	56.7	49.8	45.6	42.9
57.5°	94.8	85.3	75.2	65.7	61.5	56.2	47.7	39.7	33.4	28.6	26.0
60°	83.7	74.2	65.2	55.1	50.9	45.6	36.6	29.1	22.8	18.5	15.4
62.5°	74.2	65.7	56.2	47.2	42.9	37.6	29.1	21.7	15.9	11.6	9.0
65°	67.3	58.8	50.9	41.9	38.2	32.9	24.9	18.0	12.7	9.0	6.4
67.5°	59.3	51.9	44.0	36.6	32.9	28.6	21.2	15.4	10.6	7.4	5.3
70°	49.8	44.0	37.1	30.2	27.6	23.8	17.5	12.7	8.5	5.8	4.2
72.5°	39.7	35.0	29.7	24.4	22.2	18.5	14.3	10.1	6.4	4.2	3.2
75°	30.2	26.5	22.2	18.5	16.4	14.3	10.6	7.4	4.8	3.2	2.1
77.5°	20.7	19.1	15.9	12.7	11.6	10.1	6.9	4.8	3.2	2.1	1.1
80°	14.3	12.7	10.6	8.5	7.4	6.4	4.2	3.2	1.6	1.1	0.5
82.5°	9.0	7.4	6.4	5.3	4.8	3.7	2.6	1.6	1.1	0.5	0.5
85°	4.8	4.2	3.7	2.6	2.6	2.1	1.6	1.1	0.5	0.0	0.0
87.5°	2.6	2.1	1.6	1.1	1.1	0.5	0.5	0.5	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: P684724

CATALOG NUMBER: LX6C10D010 EX6109027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	557.4	557.4	556.8	563.2	555.8	563.2	559.5	563.2	557.9	557.4	557.9
5°	561.6	563.2	563.7	569.5	562.7	571.7	568.5	571.7	568.0	569.0	570.6
7.5°	570.1	572.7	572.2	579.6	572.7	582.8	580.7	585.5	581.7	582.8	584.9
10°	579.6	582.8	583.3	590.8	584.4	596.6	593.9	599.2	596.1	597.6	600.3
12.5°	590.8	594.5	595.0	603.5	596.6	609.3	607.7	613.0	610.3	611.9	615.1
15°	599.2	604.5	605.6	614.1	606.6	619.9	618.8	625.7	621.5	624.1	626.8
17.5°	603.5	608.2	610.3	618.3	611.9	625.2	624.1	630.0	626.8	629.4	632.6
20°	600.8	606.6	608.2	616.2	609.8	623.1	621.5	627.3	624.1	626.2	629.4
22.5°	591.3	597.1	599.2	606.6	600.8	613.0	612.5	617.8	613.5	616.2	618.8
25°	574.3	580.7	581.7	588.6	582.3	595.0	593.9	599.8	596.6	598.2	601.9
27.5°	550.0	557.4	559.0	564.8	560.0	570.6	570.6	575.4	571.7	571.7	575.4
30°	520.8	528.2	529.3	534.1	529.8	539.4	539.9	544.7	538.8	542.0	542.5
32.5°	485.3	490.1	493.3	497.5	491.1	503.3	501.7	505.4	502.3	502.3	504.9
35°	442.4	448.2	449.8	455.1	449.8	459.3	459.3	461.5	458.3	458.3	462.5
37.5°	395.8	400.0	400.5	405.8	401.6	409.5	409.0	410.6	407.4	409.5	409.5
40°	341.2	344.4	345.4	348.1	347.6	353.4	352.9	353.9	352.3	352.9	353.9
42.5°	277.6	281.9	284.0	286.1	282.9	290.9	289.3	290.9	290.3	290.9	292.5
45°	204.5	207.7	209.3	209.8	208.8	213.5	217.2	214.1	214.6	213.5	215.6
47.5°	147.8	148.4	147.3	150.5	147.8	149.9	151.0	151.5	148.4	147.8	149.9
50°	101.2	103.8	100.1	101.7	101.2	103.3	102.3	102.8	99.6	101.2	100.1
52.5°	67.3	66.8	65.7	66.2	65.2	65.2	65.2	66.2	64.1	63.0	62.0
55°	40.8	39.7	37.6	37.1	37.1	37.6	36.6	35.5	35.5	35.0	35.0
57.5°	23.8	22.2	21.2	20.7	19.6	19.1	18.5	18.5	17.5	17.5	17.5
60°	13.2	11.6	10.6	9.5	9.5	9.0	8.5	7.9	7.9	7.9	7.4
62.5°	6.9	5.8	4.8	4.2	4.2	3.7	3.2	3.2	3.2	3.2	2.6
65°	4.8	3.7	3.2	2.6	2.6	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	3.7	3.2	2.6	2.1	2.1	2.1	1.6	1.6	1.6	1.6	1.6
70°	3.2	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
80°	0.5	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: P684724

CATALOG NUMBER: LX6C10D010 EX6109027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	562.7	562.1	562.7	563.7	561.6	568.0	564.8	568.0
5°	574.9	575.4	575.9	577.5	574.9	582.8	578.6	583.3
7.5°	590.8	591.3	591.8	593.4	591.8	599.8	595.0	599.2
10°	607.2	608.2	608.2	610.9	609.3	616.7	613.5	618.8
12.5°	622.5	623.6	624.7	626.2	625.2	633.1	630.5	634.7
15°	634.7	636.8	637.4	639.5	638.4	646.9	643.7	648.0
17.5°	640.6	642.7	642.7	645.3	644.3	653.3	649.0	653.8
20°	637.4	639.0	639.5	642.2	641.1	650.1	645.9	651.7
22.5°	627.3	627.8	628.4	631.0	630.5	638.4	634.7	638.4
25°	608.8	610.3	609.8	611.9	611.9	618.3	614.1	617.2
27.5°	582.3	583.9	583.9	586.5	584.4	590.8	586.5	591.3
30°	550.0	551.5	550.5	552.6	550.5	556.8	553.7	555.2
32.5°	511.3	511.3	511.8	512.3	511.3	517.1	513.9	517.1
35°	465.2	466.2	466.8	467.3	466.2	470.5	466.8	468.9
37.5°	413.3	415.9	415.4	415.9	414.3	419.6	416.4	417.5
40°	357.6	357.6	357.1	358.2	356.6	360.8	358.7	359.7
42.5°	293.0	294.6	292.5	295.1	290.9	296.7	294.6	293.0
45°	219.9	217.8	217.2	217.8	216.2	216.7	218.3	217.2
47.5°	149.9	149.9	148.9	147.3	149.4	149.9	147.8	147.8
50°	100.7	100.7	99.6	99.1	100.1	99.6	98.6	100.1
52.5°	64.1	62.0	62.0	63.0	62.0	60.9	62.5	61.5
55°	35.0	33.9	33.9	35.0	33.9	33.9	33.4	34.4
57.5°	16.9	17.5	16.9	16.9	16.9	16.9	16.4	16.9
60°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
62.5°	3.2	3.2	2.6	2.6	2.6	2.6	2.6	2.6
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	1.6	1.6	1.6	1.6	1.6	2.1	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	1.6	2.1	2.1	2.1	2.1	2.1	2.1
75°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
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)