

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: P684764

Luminaire Tested: **LX6C10D010 EX6109050 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: P684764
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 EX6109050 6LCSWLI
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

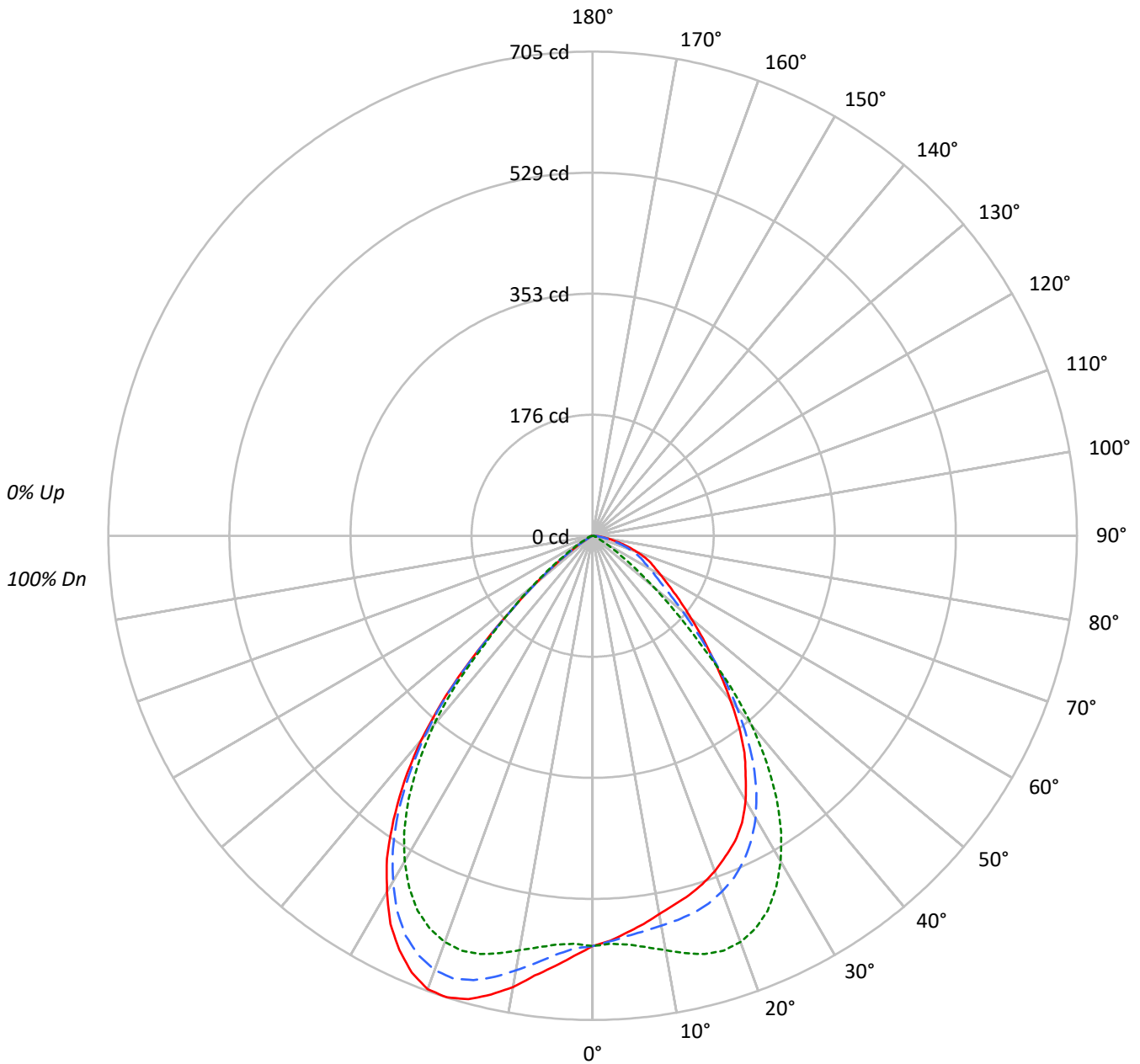
Lumens per Lamp: N/A
Luminaire Lumens: 1092.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P684764

CATALOG NUMBER: LX6C10D010 EX6109050 6LCSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P684764

CATALOG NUMBER: LX6C10D010 EX6109050 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°	32750	32750	32750
5°	31901	32875	34603
10°	31123	34112	37135
15°	30761	35783	39643
20°	30318	36718	40983
25°	29675	36444	40248
30°	28201	34638	37886
35°	25799	31226	33823
40°	22313	25791	27752
45°	18816	16916	18157
50°	15974	9791	9211
55°	13868	4693	3546
60°	12521	2193	877
65°	12154	1258	298
70°	10899	1010	272
75°	8960	720	127
80°	6661	347	0
85°	5724	0	0



TEST NUMBER: P684764

CATALOG NUMBER: LX6C10D010 EX6109050 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	5.3
10°-20°	175.9	16.1
20°-30°	268.7	24.6
30°-40°	281.0	25.7
40°-50°	182.3	16.7
50°-60°	72.4	6.6
60°-70°	34.3	3.1
70°-80°	16.3	1.5
80°-90°	3.3	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°	502.3	46.0
0°-40°	783.3	71.7
0°-60°	1038.0	95.1
0°-90°	1092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1092.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	597	597	597	597	597	
5°	580	585	597	612	629	55
15°	542	568	630	670	698	153
25°	491	521	602	643	665	225
35°	386	409	467	494	505	238
45°	243	240	218	231	234	189
55°	145	123	49	38	37	131
65°	94	78	10	2	2	91
75°	42	34	3	1	1	46
85°	9	6	0	0	0	11
90°	0	0	0	0	0	



TEST NUMBER: P684764

CATALOG NUMBER: LX6C10D010 EX6109050 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	590.0	591.1	584.9	583.1	587.7	589.4	590.0	588.3	588.8	591.1	591.1
5°	579.7	580.8	575.1	573.4	578.0	579.1	580.8	580.3	582.0	585.4	584.9
7.5°	570.0	571.7	565.4	563.2	568.9	571.7	572.9	572.9	575.1	579.7	580.3
10°	559.1	561.4	555.7	554.6	560.9	563.7	564.3	565.4	568.9	575.1	576.3
12.5°	550.0	552.3	548.3	546.6	553.4	556.3	557.4	559.7	563.7	571.7	572.9
15°	542.0	543.7	539.2	538.0	544.9	548.3	548.9	552.3	557.4	566.6	568.3
17.5°	531.7	532.9	529.4	528.3	535.2	538.6	539.2	543.1	549.4	558.6	561.4
20°	519.7	520.9	517.4	516.3	523.2	527.2	527.7	531.2	538.6	548.3	551.2
22.5°	505.4	507.7	503.8	502.6	509.5	512.9	514.6	517.4	524.9	534.6	538.6
25°	490.6	490.6	487.8	487.2	493.5	497.5	496.9	500.9	508.3	518.0	521.4
27.5°	471.2	470.6	467.8	467.2	474.0	477.5	476.3	480.3	487.2	496.9	500.3
30°	445.5	446.6	442.6	441.5	447.2	452.9	452.3	456.3	463.2	472.3	474.6
32.5°	414.6	415.8	415.2	413.5	418.6	421.5	423.2	426.1	431.8	441.5	443.8
35°	385.5	383.8	381.5	381.5	386.7	391.2	389.5	392.9	398.7	408.4	408.9
37.5°	349.5	349.0	347.8	346.7	352.4	353.5	354.1	356.4	361.5	369.5	368.4
40°	311.8	312.4	311.8	309.5	313.0	317.6	317.0	318.1	322.7	328.4	326.7
42.5°	276.4	276.4	276.4	274.1	278.1	280.4	281.6	281.0	282.1	287.3	285.0
45°	242.7	243.3	242.7	242.2	242.7	243.9	242.7	242.2	242.2	243.9	240.4
47.5°	213.6	213.6	211.9	210.2	211.9	212.5	210.8	209.0	208.5	207.9	202.2
50°	187.3	186.8	186.2	183.3	185.0	185.6	183.3	182.2	179.9	177.1	170.2
52.5°	164.5	163.9	163.3	160.5	161.6	162.2	159.9	157.6	154.8	152.5	143.9
55°	145.1	144.5	144.5	142.8	141.6	142.8	140.5	138.8	134.8	131.9	123.4
57.5°	128.5	128.5	127.4	125.6	126.2	126.2	123.9	121.7	118.2	114.8	108.0
60°	114.2	114.2	114.2	112.5	112.5	112.5	111.4	109.1	106.2	102.8	96.0
62.5°	102.8	102.8	102.2	100.5	101.1	101.1	99.9	97.7	94.8	92.5	85.7
65°	93.7	93.7	93.7	92.0	92.0	92.5	91.4	89.1	86.8	84.0	77.7
67.5°	82.2	81.7	81.7	80.5	81.1	81.7	80.5	78.8	76.0	74.3	68.5
70°	68.0	68.5	69.1	67.4	68.0	68.0	67.4	65.7	64.0	62.3	57.1
72.5°	55.4	55.4	54.8	54.3	54.3	54.8	53.7	52.0	50.8	49.7	45.7
75°	42.3	41.7	42.3	41.1	41.1	41.1	40.0	39.4	38.8	37.1	34.3
77.5°	30.8	30.3	30.3	29.1	29.7	29.7	29.1	28.0	26.8	26.3	24.0
80°	21.1	21.1	21.1	20.6	20.6	20.0	20.0	19.4	18.3	17.7	16.6
82.5°	14.3	14.3	14.3	13.7	13.7	13.7	13.1	12.6	12.0	11.4	10.3
85°	9.1	9.1	9.1	8.6	8.6	8.6	8.0	8.0	7.4	6.8	5.7
87.5°	5.1	5.1	5.1	4.6	4.6	4.6	4.6	4.6	4.0	3.4	2.9
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: P684764

CATALOG NUMBER: LX6C10D010 EX6109050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	595.1	587.1	592.3	592.3	590.6	595.1	598.0	600.3	599.7	594.6	594.0
5°	590.6	583.7	589.4	590.0	588.3	594.6	598.5	601.4	602.0	597.4	598.0
7.5°	587.1	581.4	588.8	591.1	590.6	596.3	600.8	605.4	607.7	604.3	604.8
10°	585.4	580.8	588.8	592.3	592.8	599.1	606.0	612.3	615.1	612.8	614.5
12.5°	583.1	580.3	589.4	594.6	596.8	603.1	611.7	619.1	623.7	622.5	626.0
15°	580.8	578.6	589.4	596.8	599.7	605.4	615.1	626.0	631.1	630.5	635.1
17.5°	575.1	574.6	586.0	594.0	598.0	604.8	614.0	627.1	632.3	633.4	639.1
20°	566.0	566.0	578.6	587.1	591.7	598.0	609.4	622.0	628.3	629.4	635.7
22.5°	553.4	554.6	566.6	575.1	582.0	586.5	598.5	611.7	617.4	619.1	626.0
25°	536.9	538.0	549.4	558.0	565.4	570.6	582.0	594.0	600.8	602.5	607.7
27.5°	515.2	517.4	528.3	536.9	543.1	546.6	558.6	571.1	576.3	578.0	583.1
30°	490.0	490.6	501.5	508.9	515.2	518.0	528.3	541.4	545.4	547.2	554.6
32.5°	459.2	458.6	468.9	475.8	480.9	484.3	495.2	503.8	507.7	510.6	514.6
35°	422.1	421.5	428.9	436.9	440.9	442.1	452.9	462.0	464.3	466.6	471.8
37.5°	380.4	380.4	386.7	390.7	395.2	396.9	402.1	412.4	416.4	415.8	419.8
40°	336.4	334.1	338.7	342.7	343.8	344.4	349.5	357.5	360.4	360.4	363.2
42.5°	290.1	286.7	287.3	289.6	290.7	286.7	290.1	295.3	293.6	295.9	296.4
45°	241.0	235.9	233.6	228.4	229.6	225.6	223.3	224.5	223.9	218.2	219.3
47.5°	201.0	191.9	187.9	180.5	178.8	174.2	171.3	166.2	161.6	161.6	158.8
50°	167.4	158.2	150.2	141.6	138.8	134.8	128.5	121.7	118.2	114.8	111.9
52.5°	140.5	130.8	121.1	111.9	108.0	102.8	94.2	87.4	81.1	77.7	74.3
55°	118.8	108.0	97.7	87.9	82.8	77.7	69.1	61.1	53.7	49.1	46.3
57.5°	102.2	92.0	81.1	70.8	66.2	60.5	51.4	42.8	36.0	30.8	28.0
60°	90.2	80.0	70.3	59.4	54.8	49.1	39.4	31.4	24.6	20.0	16.6
62.5°	80.0	70.8	60.5	50.8	46.3	40.6	31.4	23.4	17.1	12.6	9.7
65°	72.5	63.4	54.8	45.1	41.1	35.4	26.8	19.4	13.7	9.7	6.8
67.5°	64.0	56.0	47.4	39.4	35.4	30.8	22.8	16.6	11.4	8.0	5.7
70°	53.7	47.4	40.0	32.6	29.7	25.7	18.8	13.7	9.1	6.3	4.6
72.5°	42.8	37.7	32.0	26.3	24.0	20.0	15.4	10.9	6.8	4.6	3.4
75°	32.6	28.6	24.0	20.0	17.7	15.4	11.4	8.0	5.1	3.4	2.3
77.5°	22.3	20.6	17.1	13.7	12.6	10.9	7.4	5.1	3.4	2.3	1.1
80°	15.4	13.7	11.4	9.1	8.0	6.8	4.6	3.4	1.7	1.1	0.6
82.5°	9.7	8.0	6.8	5.7	5.1	4.0	2.9	1.7	1.1	0.6	0.6
85°	5.1	4.6	4.0	2.9	2.9	2.3	1.7	1.1	0.6	0.0	0.0
87.5°	2.9	2.3	1.7	1.1	1.1	0.6	0.6	0.6	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: P684764

CATALOG NUMBER: LX6C10D010 EX6109050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	600.8	600.8	600.3	607.1	599.1	607.1	603.1	607.1	601.4	600.8	601.4
5°	605.4	607.1	607.7	614.0	606.6	616.3	612.8	616.3	612.3	613.4	615.1
7.5°	614.5	617.4	616.8	624.8	617.4	628.3	626.0	631.1	627.1	628.3	630.5
10°	624.8	628.3	628.8	636.8	630.0	643.1	640.2	645.9	642.5	644.3	647.1
12.5°	636.8	640.8	641.4	650.5	643.1	656.8	655.1	660.8	657.9	659.7	663.1
15°	645.9	651.7	652.8	661.9	654.0	668.2	667.1	674.5	669.9	672.8	675.7
17.5°	650.5	655.7	657.9	666.5	659.7	673.9	672.8	679.1	675.7	678.5	681.9
20°	647.7	654.0	655.7	664.2	657.4	671.7	669.9	676.2	672.8	675.1	678.5
22.5°	637.4	643.7	645.9	654.0	647.7	660.8	660.2	666.0	661.4	664.2	667.1
25°	619.1	626.0	627.1	634.5	627.7	641.4	640.2	646.5	643.1	644.8	648.8
27.5°	592.8	600.8	602.5	608.8	603.7	615.1	615.1	620.3	616.3	616.3	620.3
30°	561.4	569.4	570.6	575.7	571.1	581.4	582.0	587.1	580.8	584.3	584.9
32.5°	523.2	528.3	531.7	536.3	529.4	542.6	540.9	544.9	541.4	541.4	544.3
35°	476.9	483.2	484.9	490.6	484.9	495.2	495.2	497.5	494.0	494.0	498.6
37.5°	426.6	431.2	431.8	437.5	432.9	441.5	440.9	442.6	439.2	441.5	441.5
40°	367.8	371.2	372.4	375.2	374.7	380.9	380.4	381.5	379.8	380.4	381.5
42.5°	299.3	303.8	306.1	308.4	305.0	313.6	311.8	313.6	313.0	313.6	315.3
45°	220.5	223.9	225.6	226.2	225.0	230.2	234.2	230.7	231.3	230.2	232.5
47.5°	159.3	159.9	158.8	162.2	159.3	161.6	162.8	163.3	159.9	159.3	161.6
50°	109.1	111.9	108.0	109.7	109.1	111.4	110.2	110.8	107.4	109.1	108.0
52.5°	72.5	72.0	70.8	71.4	70.3	70.3	70.3	71.4	69.1	68.0	66.8
55°	44.0	42.8	40.6	40.0	40.0	40.6	39.4	38.3	38.3	37.7	37.7
57.5°	25.7	24.0	22.8	22.3	21.1	20.6	20.0	20.0	18.8	18.8	18.8
60°	14.3	12.6	11.4	10.3	10.3	9.7	9.1	8.6	8.6	8.6	8.0
62.5°	7.4	6.3	5.1	4.6	4.6	4.0	3.4	3.4	3.4	3.4	2.9
65°	5.1	4.0	3.4	2.9	2.9	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	4.0	3.4	2.9	2.3	2.3	2.3	1.7	1.7	1.7	1.7	1.7
70°	3.4	2.3	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	2.3	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
80°	0.6	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: P684764

CATALOG NUMBER: LX6C10D010 EX6109050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	606.6	606.0	606.6	607.7	605.4	612.3	608.8	612.3
5°	619.7	620.3	620.8	622.5	619.7	628.3	623.7	628.8
7.5°	636.8	637.4	638.0	639.7	638.0	646.5	641.4	645.9
10°	654.5	655.7	655.7	658.5	656.8	664.8	661.4	667.1
12.5°	671.1	672.2	673.4	675.1	673.9	682.5	679.6	684.2
15°	684.2	686.5	687.1	689.4	688.2	697.4	693.9	698.5
17.5°	690.5	692.8	692.8	695.6	694.5	704.2	699.6	704.8
20°	687.1	688.8	689.4	692.2	691.1	700.8	696.2	702.5
22.5°	676.2	676.8	677.4	680.2	679.6	688.2	684.2	688.2
25°	656.2	657.9	657.4	659.7	659.7	666.5	661.9	665.4
27.5°	627.7	629.4	629.4	632.3	630.0	636.8	632.3	637.4
30°	592.8	594.6	593.4	595.7	593.4	600.3	596.8	598.5
32.5°	551.2	551.2	551.7	552.3	551.2	557.4	554.0	557.4
35°	501.5	502.6	503.2	503.8	502.6	507.2	503.2	505.4
37.5°	445.5	448.3	447.8	448.3	446.6	452.3	448.9	450.1
40°	385.5	385.5	384.9	386.1	384.4	389.0	386.7	387.8
42.5°	315.8	317.6	315.3	318.1	313.6	319.8	317.6	315.8
45°	237.0	234.7	234.2	234.7	233.0	233.6	235.3	234.2
47.5°	161.6	161.6	160.5	158.8	161.1	161.6	159.3	159.3
50°	108.5	108.5	107.4	106.8	108.0	107.4	106.2	108.0
52.5°	69.1	66.8	66.8	68.0	66.8	65.7	67.4	66.2
55°	37.7	36.6	36.6	37.7	36.6	36.6	36.0	37.1
57.5°	18.3	18.8	18.3	18.3	18.3	18.3	17.7	18.3
60°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
62.5°	3.4	3.4	2.9	2.9	2.9	2.9	2.9	2.9
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	1.7	1.7	1.7	1.7	1.7	2.3	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	2.3	2.3	2.3	2.3	2.3	2.3
75°	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6
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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)