

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: P684627

Luminaire Tested: **LX6C08D010 EX6C089050 6LBLWWH**

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: P684627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C08D010 EX6C089050 6LBLWWH
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

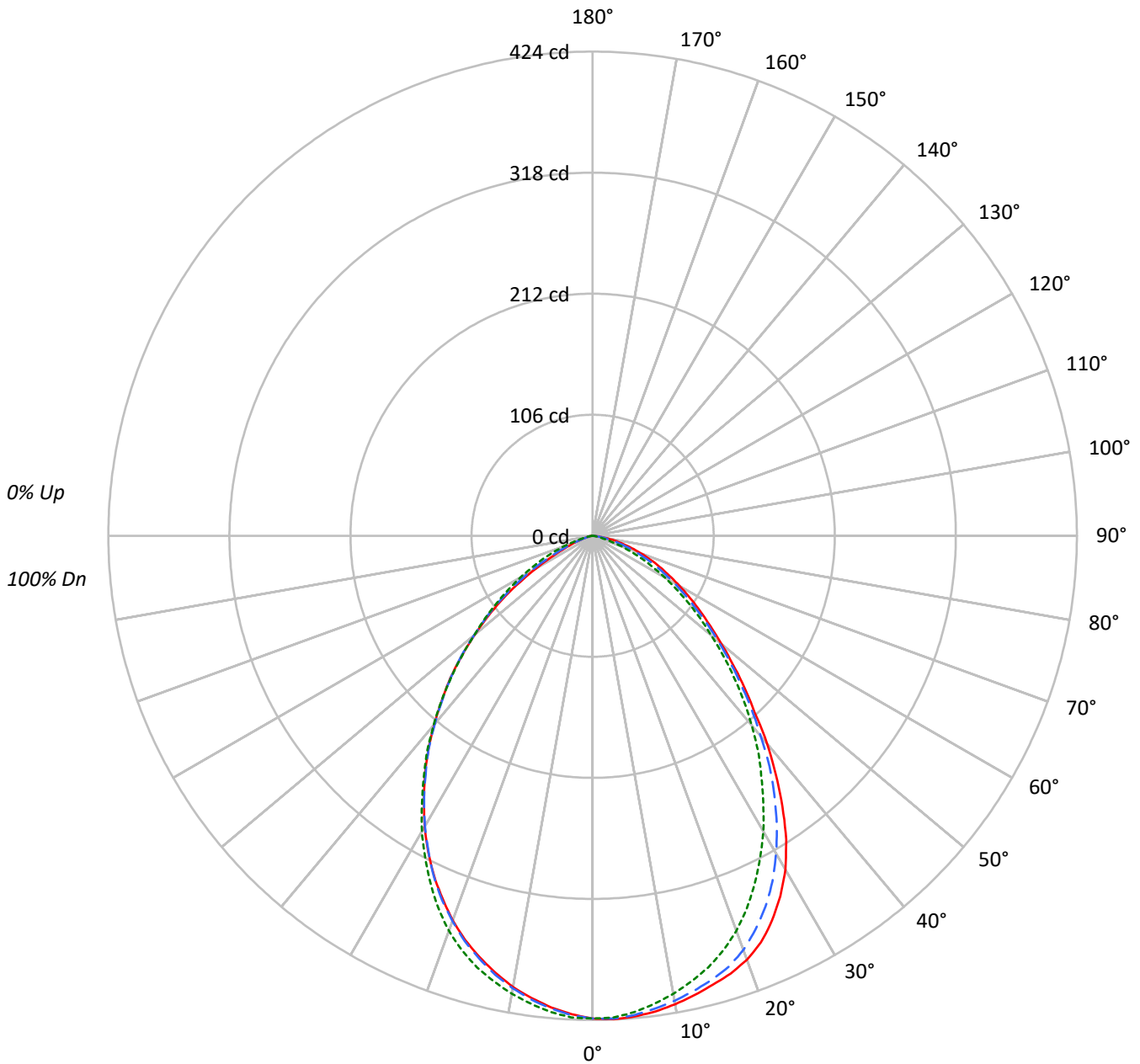
Lumens per Lamp: N/A
Luminaire Lumens: 769.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
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: P684627

CATALOG NUMBER: LX6C08D010 EX6C089050 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P684627

CATALOG NUMBER: LX6C08D010 EX6C089050 6LBLWWH

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23178	23178	23178
5°	23255	23046	22821
10°	23185	22673	22339
15°	23099	22202	21686
20°	23050	21474	20903
25°	22489	20318	19876
30°	21364	18927	18610
35°	19394	17233	17119
40°	17010	15508	15429
45°	14583	13552	13660
50°	12554	11548	11488
55°	10972	9749	9156
60°	9648	7993	6249
65°	8444	6187	3762
70°	7197	4167	2212
75°	5804	2160	1207
80°	4041	852	663
85°	1635	252	377



TEST NUMBER: P684627

CATALOG NUMBER: LX6C08D010 EX6C089050 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	5.2
10°-20°	110.6	14.4
20°-30°	157.4	20.5
30°-40°	165.7	21.5
40°-50°	138.1	18.0
50°-60°	93.3	12.1
60°-70°	47.3	6.1
70°-80°	15.3	2.0
80°-90°	1.7	0.2
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°	307.6	40.0
0°-40°	473.3	61.6
0°-60°	704.7	91.6
0°-90°	769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	769.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	423	423	423	423	423	
5°	423	421	419	416	415	40
15°	407	403	391	383	382	115
25°	372	358	336	329	329	170
35°	290	277	258	255	256	180
45°	188	183	175	176	176	146
55°	115	109	102	99	96	103
65°	65	59	48	34	29	65
75°	27	22	10	6	6	30
85°	3	1	0	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P684627

CATALOG NUMBER: LX6C08D010 EX6C089050 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8
2.5°	423.8	423.8	423.8	423.8	423.8	423.8	423.6	423.6	423.3	423.3	423.2
5°	422.6	422.8	422.8	422.6	422.6	422.3	422.3	422.2	421.8	421.5	421.3
7.5°	420.2	420.2	420.1	419.9	419.8	419.4	419.2	418.8	418.5	418.2	417.7
10°	416.5	416.5	416.4	416.1	415.9	415.7	415.7	415.1	414.5	413.8	413.4
12.5°	412.1	412.3	412.0	411.8	411.4	411.3	411.0	410.3	409.8	409.0	408.3
15°	407.0	407.3	407.3	406.7	406.3	406.1	405.7	405.3	404.3	403.4	402.6
17.5°	402.0	402.3	402.0	401.6	401.2	400.6	400.3	399.5	398.2	397.0	395.8
20°	395.1	395.5	394.9	394.2	393.4	393.2	392.8	391.4	389.5	387.8	386.0
22.5°	385.3	385.0	384.5	384.3	382.8	382.0	381.4	379.6	377.6	375.3	373.0
25°	371.8	372.3	371.5	370.2	369.5	368.6	367.2	365.2	363.4	361.0	358.3
27.5°	355.8	355.8	354.7	354.3	352.7	351.6	350.9	348.9	346.5	344.0	341.1
30°	337.5	336.7	336.7	334.7	333.4	333.0	332.2	329.0	326.8	324.3	321.3
32.5°	315.3	315.2	314.6	313.3	311.6	310.2	310.2	307.9	305.1	302.0	300.1
35°	289.8	289.9	289.6	288.2	288.2	286.5	286.2	284.2	281.9	279.5	277.3
37.5°	263.3	263.9	263.3	262.6	262.2	262.0	260.8	259.3	257.6	256.2	254.5
40°	237.7	236.9	237.2	235.8	235.9	235.6	235.0	233.2	232.2	230.8	228.9
42.5°	210.2	211.0	211.3	210.5	210.2	209.6	210.2	209.5	208.3	207.6	205.9
45°	188.1	187.3	187.7	187.4	187.6	186.4	186.0	185.7	185.3	184.0	183.3
47.5°	166.3	166.4	166.3	165.7	165.4	165.4	164.8	164.0	164.0	163.1	162.6
50°	147.2	147.2	147.5	146.8	146.5	145.9	146.1	145.2	144.7	144.0	143.5
52.5°	129.7	129.9	129.3	129.5	129.2	129.2	128.6	128.0	127.5	126.2	125.9
55°	114.8	115.0	114.3	114.5	113.7	113.3	113.0	112.1	112.1	110.8	109.3
57.5°	100.9	100.8	100.6	100.2	99.6	99.2	98.8	97.8	97.3	96.5	95.2
60°	88.0	87.8	87.5	87.4	87.0	86.0	86.0	85.3	83.8	83.0	81.7
62.5°	75.7	75.7	75.6	75.2	74.7	74.3	74.0	73.5	72.0	71.1	69.9
65°	65.1	64.9	64.5	63.8	63.5	63.5	62.5	62.1	61.0	60.0	58.7
67.5°	54.9	54.3	54.0	54.1	53.3	53.3	52.4	51.7	50.7	49.0	48.0
70°	44.9	44.6	44.3	44.1	43.9	43.3	42.9	42.1	41.1	39.8	38.2
72.5°	36.0	36.0	35.5	35.2	34.8	34.2	34.0	33.3	32.1	30.7	29.6
75°	27.4	27.4	27.4	26.9	26.6	26.3	25.4	25.0	23.7	22.9	21.5
77.5°	20.2	19.9	19.5	19.3	19.0	18.8	18.3	17.6	16.5	15.5	14.6
80°	12.8	13.2	12.8	12.8	12.1	11.8	11.7	10.8	10.4	9.5	8.8
82.5°	7.1	7.2	7.0	6.8	6.4	6.3	6.3	5.7	5.4	4.8	4.4
85°	2.6	2.7	2.6	2.6	2.3	2.4	2.3	2.1	1.8	1.6	1.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P684627

CATALOG NUMBER: LX6C08D010 EX6C089050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8
2.5°	423.2	422.9	422.9	422.8	422.6	422.6	422.6	422.5	422.2	422.2	422.1
5°	421.1	420.8	420.4	420.1	419.9	419.8	419.6	419.5	418.9	418.8	418.4
7.5°	417.2	416.9	416.2	415.9	415.5	415.4	414.8	414.5	414.0	413.4	413.1
10°	412.7	412.0	411.4	410.7	410.4	410.0	409.3	408.4	408.0	407.3	406.7
12.5°	407.6	406.7	405.6	404.7	404.4	403.7	402.6	401.9	400.9	399.7	398.8
15°	401.2	400.2	399.2	397.6	397.2	396.3	395.2	393.8	392.4	391.2	390.1
17.5°	394.2	392.6	391.1	389.4	388.1	387.7	385.8	383.8	382.6	380.6	379.3
20°	384.4	382.3	379.7	378.0	376.9	375.6	373.5	371.3	369.8	368.1	366.2
22.5°	370.9	368.9	365.9	363.4	362.5	360.7	358.8	356.8	354.8	353.0	350.7
25°	355.0	352.9	349.9	347.3	345.9	345.0	341.5	339.5	337.5	335.9	334.4
27.5°	338.6	334.8	332.8	328.8	327.6	327.3	324.0	321.9	319.7	317.6	315.6
30°	318.5	315.5	312.5	309.7	307.9	307.0	304.5	301.8	300.4	299.0	297.0
32.5°	297.6	294.9	291.2	288.5	287.2	285.8	283.6	281.8	279.7	278.1	277.7
35°	275.3	272.3	269.1	267.2	266.9	265.2	263.0	261.5	259.9	257.5	257.1
37.5°	251.4	249.7	247.5	244.7	243.4	243.4	241.3	240.2	238.2	238.0	236.9
40°	227.9	227.2	224.0	223.1	222.8	220.8	220.3	218.3	216.9	216.7	215.0
42.5°	204.8	202.9	202.4	200.9	199.7	199.4	198.1	197.2	196.7	195.8	195.0
45°	181.8	181.3	179.9	178.9	178.5	177.9	177.5	175.8	175.5	174.8	174.4
47.5°	161.9	160.7	159.4	158.3	158.2	157.3	156.3	156.3	154.8	154.6	154.3
50°	142.1	141.3	140.5	139.0	139.3	138.1	138.0	136.7	136.0	135.4	136.1
52.5°	124.8	123.1	122.8	121.5	121.1	121.2	119.7	119.2	118.9	118.4	118.1
55°	108.3	107.4	106.3	105.4	104.7	104.0	103.5	103.5	101.9	102.0	101.3
57.5°	93.8	93.1	91.7	90.4	90.1	89.2	88.5	87.8	87.7	86.7	86.0
60°	80.9	79.6	77.7	77.2	76.3	75.6	74.9	74.0	73.6	72.9	71.6
62.5°	68.8	66.6	65.9	64.8	63.8	63.4	62.2	61.2	60.5	59.5	58.5
65°	57.3	55.7	54.4	53.1	53.0	51.9	50.9	50.0	48.6	47.7	45.9
67.5°	46.8	45.3	43.9	42.6	41.6	41.4	39.8	38.8	37.8	36.1	34.5
70°	37.1	35.7	34.5	33.0	32.5	31.4	30.3	29.3	27.6	26.0	24.7
72.5°	28.3	26.7	25.4	24.3	23.6	22.6	21.5	20.3	18.6	17.1	15.9
75°	20.2	19.0	17.8	16.6	16.1	15.5	14.2	12.9	11.8	10.2	9.2
77.5°	13.6	12.5	11.4	10.4	9.7	9.2	8.4	7.4	6.4	5.5	4.8
80°	8.0	7.2	6.4	5.5	5.4	5.0	4.3	3.7	3.1	2.7	2.1
82.5°	3.8	3.4	2.8	2.4	2.1	2.0	1.7	1.4	1.1	1.0	1.0
85°	1.1	1.0	0.9	0.7	0.6	0.6	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P684627

CATALOG NUMBER: LX6C08D010 EX6C089050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8
2.5°	421.6	421.5	421.3	421.2	420.9	420.9	420.5	420.2	420.2	419.9	419.8
5°	417.9	417.5	417.4	417.1	416.8	416.7	416.1	415.9	415.7	415.4	415.4
7.5°	412.7	412.1	411.5	411.3	411.1	410.7	410.4	410.3	409.8	409.6	409.0
10°	405.7	405.3	404.6	404.3	404.0	403.7	403.0	402.6	402.4	402.2	401.9
12.5°	397.6	397.0	396.3	395.8	395.5	395.1	394.3	393.9	393.9	393.4	393.4
15°	388.9	388.1	386.8	386.2	386.1	385.3	384.7	384.1	383.4	383.1	383.1
17.5°	377.9	376.4	375.3	375.3	374.7	373.9	373.0	372.6	372.2	371.6	371.3
20°	364.8	363.8	362.5	362.5	361.2	361.0	360.1	360.0	359.0	359.1	358.7
22.5°	349.0	348.4	347.7	347.2	346.5	345.6	345.2	345.3	344.9	344.8	344.6
25°	333.1	331.5	330.7	330.4	330.1	329.4	329.1	329.0	329.0	328.6	328.7
27.5°	314.8	313.6	312.5	312.9	312.4	311.9	311.6	311.2	311.5	311.4	311.5
30°	296.0	294.6	293.9	294.2	294.0	292.9	293.5	293.3	293.5	293.5	293.7
32.5°	276.3	275.3	275.1	275.3	274.0	274.1	273.6	274.4	274.6	275.4	274.7
35°	256.2	255.6	254.7	254.5	254.7	254.5	254.5	255.1	254.9	255.8	255.5
37.5°	235.6	235.3	234.3	234.6	234.0	235.0	235.3	235.0	236.0	235.8	235.6
40°	215.4	215.0	214.4	215.6	214.9	214.3	215.3	214.4	214.7	215.6	215.6
42.5°	195.0	194.3	194.3	194.3	194.1	194.1	194.5	195.0	194.7	194.8	196.0
45°	174.4	174.2	173.8	174.1	173.9	174.6	174.6	174.9	175.5	176.1	175.8
47.5°	154.5	154.2	154.6	154.3	154.5	154.0	154.3	155.2	155.9	154.9	155.9
50°	135.9	135.3	135.1	135.6	135.4	135.3	135.6	135.6	135.3	135.3	136.3
52.5°	118.1	117.5	117.1	117.8	117.4	117.5	117.0	117.0	117.2	117.0	116.5
55°	101.5	101.0	100.5	100.8	100.0	99.9	99.3	99.3	98.9	98.6	97.8
57.5°	85.5	85.3	84.0	83.8	84.0	83.0	82.0	81.6	80.4	80.1	80.0
60°	71.5	69.9	69.2	68.4	67.8	67.4	66.2	65.5	63.8	62.8	62.7
62.5°	56.8	56.1	55.3	54.0	53.7	52.3	51.2	49.3	48.5	47.2	45.9
65°	45.0	43.2	41.9	41.2	40.1	38.8	37.5	35.5	34.5	33.0	31.7
67.5°	33.0	31.4	29.7	29.1	28.1	26.6	25.3	23.6	22.7	21.3	20.9
70°	22.6	21.2	19.9	19.0	18.3	16.8	15.5	14.9	14.1	13.8	13.8
72.5°	14.5	13.2	11.8	11.4	10.8	9.9	9.1	8.8	9.1	9.0	9.0
75°	8.1	7.4	6.4	6.0	6.0	5.7	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	3.7	3.4	3.3	3.3	3.3	3.4	3.4	3.4	3.6	3.4
80°	2.0	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.1	2.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P684627

CATALOG NUMBER: LX6C08D010 EX6C089050 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	422.8	422.8	422.8	422.8	422.8	422.8	422.8	422.8
2.5°	419.6	419.4	419.4	419.2	419.2	419.2	419.2	419.4
5°	415.1	415.0	415.0	414.7	414.7	414.7	414.7	414.7
7.5°	409.0	408.7	408.8	408.6	408.6	408.7	408.6	408.4
10°	401.5	401.3	401.5	401.5	401.2	401.0	401.2	401.3
12.5°	392.9	392.8	392.5	392.6	392.6	392.5	392.4	392.1
15°	383.0	382.8	382.7	382.6	382.4	382.6	382.4	382.1
17.5°	371.3	371.3	371.2	371.0	370.9	370.6	370.8	371.2
20°	358.8	358.7	358.4	358.5	358.0	357.7	357.8	358.3
22.5°	344.5	344.0	344.3	343.9	343.9	344.0	343.9	343.6
25°	328.8	328.3	328.6	328.7	328.7	328.6	328.4	328.6
27.5°	311.5	311.9	311.9	311.6	312.1	311.5	311.8	311.9
30°	293.7	293.3	293.2	293.7	294.6	293.9	293.9	294.0
32.5°	275.4	274.8	274.8	275.1	275.0	275.0	275.5	274.8
35°	255.8	256.1	254.9	255.6	255.9	255.6	255.8	255.8
37.5°	236.0	235.8	235.8	235.8	236.2	236.2	236.5	236.3
40°	216.6	216.0	215.9	216.1	215.6	216.0	216.0	215.6
42.5°	195.5	195.7	196.4	195.7	195.8	195.7	195.4	195.3
45°	176.1	176.5	176.2	176.1	176.2	175.6	175.8	176.2
47.5°	155.5	156.3	155.5	156.0	155.9	155.6	155.3	154.8
50°	136.1	136.4	136.3	136.1	136.0	135.9	135.1	134.7
52.5°	116.4	116.4	116.4	116.4	115.0	115.7	115.4	114.5
55°	97.1	97.5	96.9	96.9	95.9	95.9	95.6	95.8
57.5°	78.4	78.0	77.6	77.6	76.6	76.2	75.7	75.2
60°	61.1	60.7	60.1	59.4	58.4	58.4	58.1	57.0
62.5°	44.8	44.1	43.6	43.1	42.2	41.6	41.2	41.5
65°	30.7	30.0	29.4	29.4	29.4	29.1	29.0	29.0
67.5°	20.2	20.6	20.3	20.6	20.6	20.3	20.2	20.5
70°	13.9	13.9	13.8	13.8	13.8	13.8	13.6	13.8
72.5°	9.0	9.0	9.0	9.1	9.0	9.0	9.1	9.1
75°	5.7	5.7	5.7	5.8	5.7	5.7	5.8	5.7
77.5°	3.4	3.6	3.6	3.6	3.6	3.4	3.6	3.6
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)