

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: P683868

Luminaire Tested: **LX6C10D010 EX6C109027 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: P683868
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: LX6C10D010 EX6C109027 6LBLWWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

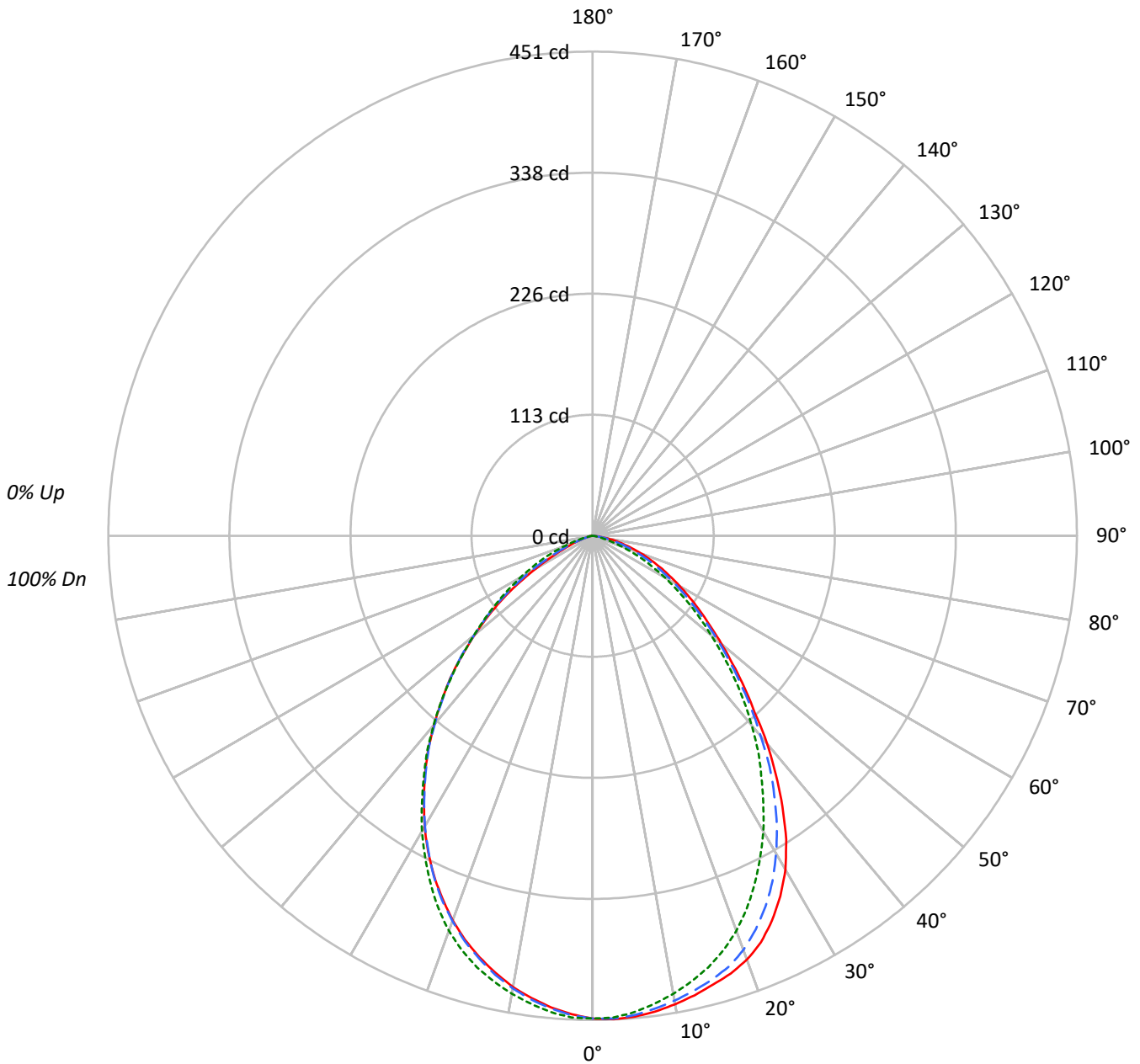
Lumens per Lamp: N/A
Luminaire Lumens: 818.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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: P683868

CATALOG NUMBER: LX6C10D010 EX6C109027 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P683868

CATALOG NUMBER: LX6C10D010 EX6C109027 6LBLWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	41	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°	24653	24653	24653
5°	24741	24516	24274
10°	24666	24114	23764
15°	24569	23615	23071
20°	24514	22839	22233
25°	23917	21612	21140
30°	22725	20130	19801
35°	20626	18330	18210
40°	18098	16495	16409
45°	15513	14412	14529
50°	13356	12290	12221
55°	11670	10370	9739
60°	10262	8497	6644
65°	8976	6590	3995
70°	7662	4440	2356
75°	6185	2309	1271
80°	4293	916	726
85°	1698	314	377



TEST NUMBER: P683868

CATALOG NUMBER: LX6C10D010 EX6C109027 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	5.2
10°-20°	117.7	14.4
20°-30°	167.4	20.5
30°-40°	176.2	21.5
40°-50°	146.9	18.0
50°-60°	99.2	12.1
60°-70°	50.3	6.2
70°-80°	16.2	2.0
80°-90°	1.9	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°	327.2	40.0
0°-40°	503.5	61.5
0°-60°	749.6	91.6
0°-90°	818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	818.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	450	450	450	450	450	
5°	450	448	446	442	441	43
15°	433	428	416	408	406	122
25°	395	381	357	350	350	181
35°	308	295	274	271	272	192
45°	200	195	186	187	187	155
55°	122	116	108	105	102	110
65°	69	62	51	37	31	69
75°	29	23	11	6	6	32
85°	3	2	0	1	1	5
90°	0	0	0	0	0	



TEST NUMBER: P683868

CATALOG NUMBER: LX6C10D010 EX6C109027 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	450.8	450.8	450.8	450.8	450.8	450.8	450.6	450.6	450.3	450.3	450.2
5°	449.6	449.7	449.7	449.6	449.6	449.3	449.3	449.1	448.6	448.3	448.2
7.5°	447.0	447.0	446.8	446.7	446.5	446.1	445.9	445.5	445.2	444.9	444.3
10°	443.1	443.1	442.9	442.6	442.4	442.1	442.1	441.5	440.9	440.2	439.7
12.5°	438.4	438.5	438.2	438.1	437.6	437.5	437.2	436.4	435.9	435.0	434.3
15°	432.9	433.2	433.2	432.6	432.2	432.0	431.6	431.1	430.1	429.1	428.2
17.5°	427.6	427.9	427.6	427.2	426.7	426.1	425.8	424.9	423.6	422.3	421.0
20°	420.2	420.7	420.1	419.3	418.4	418.3	417.8	416.3	414.3	412.5	410.6
22.5°	409.8	409.5	409.0	408.7	407.2	406.3	405.7	403.8	401.6	399.2	396.8
25°	395.4	396.0	395.1	393.8	393.0	392.1	390.6	388.5	386.5	384.0	381.1
27.5°	378.5	378.5	377.3	376.8	375.2	374.0	373.2	371.1	368.5	366.0	362.8
30°	359.0	358.1	358.1	356.0	354.6	354.2	353.4	349.9	347.7	345.0	341.8
32.5°	335.4	335.3	334.7	333.3	331.5	330.0	330.0	327.6	324.5	321.2	319.3
35°	308.2	308.4	308.1	306.6	306.6	304.7	304.4	302.3	299.9	297.3	294.9
37.5°	280.1	280.7	280.1	279.3	278.9	278.7	277.4	275.9	274.1	272.5	270.7
40°	252.9	252.0	252.3	250.8	250.9	250.6	250.0	248.1	247.0	245.5	243.5
42.5°	223.6	224.5	224.8	223.9	223.6	223.0	223.6	222.8	221.6	220.8	219.0
45°	200.1	199.2	199.7	199.4	199.5	198.3	197.9	197.6	197.1	195.8	195.0
47.5°	176.9	177.0	176.9	176.3	176.0	176.0	175.3	174.4	174.4	173.5	172.9
50°	156.6	156.6	156.9	156.1	155.8	155.2	155.4	154.5	153.9	153.1	152.7
52.5°	138.0	138.2	137.6	137.7	137.4	137.4	136.8	136.2	135.6	134.2	133.9
55°	122.1	122.3	121.5	121.8	120.9	120.5	120.2	119.3	119.3	117.9	116.2
57.5°	107.3	107.2	107.0	106.6	106.0	105.5	105.1	104.0	103.5	102.6	101.3
60°	93.6	93.4	93.1	93.0	92.5	91.5	91.5	90.7	89.2	88.3	86.9
62.5°	80.6	80.6	80.4	80.0	79.5	79.1	78.8	78.2	76.6	75.6	74.4
65°	69.2	69.1	68.6	67.9	67.6	67.6	66.5	66.1	64.8	63.8	62.4
67.5°	58.3	57.7	57.4	57.6	56.7	56.7	55.8	55.0	54.0	52.2	51.1
70°	47.8	47.5	47.2	46.9	46.7	46.1	45.7	44.7	43.7	42.3	40.7
72.5°	38.2	38.2	37.8	37.5	37.0	36.4	36.1	35.4	34.2	32.7	31.4
75°	29.2	29.2	29.2	28.6	28.3	28.0	27.1	26.6	25.2	24.3	22.8
77.5°	21.5	21.2	20.7	20.6	20.3	20.0	19.5	18.7	17.5	16.5	15.6
80°	13.6	14.1	13.6	13.6	12.8	12.5	12.4	11.5	11.0	10.1	9.4
82.5°	7.6	7.7	7.4	7.3	6.8	6.7	6.7	6.0	5.7	5.1	4.7
85°	2.7	2.9	2.7	2.7	2.4	2.6	2.4	2.3	2.0	1.7	1.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P683868

CATALOG NUMBER: LX6C10D010 EX6C109027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	450.2	449.9	449.9	449.7	449.6	449.6	449.6	449.4	449.1	449.1	448.9
5°	447.9	447.6	447.1	446.8	446.7	446.5	446.4	446.2	445.6	445.5	445.0
7.5°	443.8	443.5	442.8	442.4	442.0	441.8	441.2	440.9	440.3	439.7	439.4
10°	439.0	438.2	437.6	436.9	436.6	436.1	435.3	434.4	434.0	433.2	432.6
12.5°	433.5	432.6	431.4	430.5	430.2	429.4	428.2	427.5	426.4	425.2	424.2
15°	426.7	425.7	424.6	423.0	422.5	421.6	420.4	418.9	417.4	416.1	414.9
17.5°	419.3	417.7	416.0	414.2	412.8	412.4	410.4	408.3	406.9	404.8	403.5
20°	408.9	406.6	403.9	402.1	400.9	399.5	397.3	395.0	393.3	391.5	389.5
22.5°	394.5	392.4	389.2	386.5	385.6	383.6	381.7	379.6	377.5	375.5	373.1
25°	377.6	375.3	372.2	369.4	367.9	367.0	363.2	361.1	359.0	357.3	355.7
27.5°	360.2	356.1	354.0	349.8	348.4	348.1	344.6	342.4	340.1	337.8	335.7
30°	338.8	335.6	332.4	329.4	327.6	326.5	323.9	321.1	319.6	318.0	315.9
32.5°	316.5	313.7	309.7	306.9	305.5	304.0	301.7	299.8	297.5	295.8	295.4
35°	292.8	289.6	286.3	284.2	283.9	282.1	279.8	278.1	276.5	273.9	273.5
37.5°	267.4	265.6	263.3	260.3	258.9	258.9	256.7	255.5	253.3	253.2	252.0
40°	242.5	241.7	238.2	237.3	237.0	234.9	234.3	232.2	230.7	230.5	228.7
42.5°	217.8	215.9	215.3	213.7	212.4	212.1	210.7	209.8	209.2	208.3	207.4
45°	193.3	192.9	191.4	190.3	189.9	189.3	188.8	187.0	186.7	185.9	185.5
47.5°	172.2	171.0	169.6	168.4	168.2	167.3	166.3	166.3	164.6	164.5	164.2
50°	151.2	150.3	149.5	147.8	148.1	146.9	146.8	145.4	144.7	144.1	144.8
52.5°	132.7	130.9	130.6	129.2	128.8	128.9	127.3	126.8	126.5	125.9	125.6
55°	115.2	114.3	113.1	112.2	111.4	110.7	110.0	110.0	108.4	108.5	107.8
57.5°	99.8	99.0	97.5	96.1	95.8	94.9	94.2	93.4	93.3	92.2	91.5
60°	86.0	84.7	82.7	82.1	81.2	80.4	79.7	78.8	78.3	77.5	76.2
62.5°	73.2	70.9	70.1	68.9	67.9	67.4	66.2	65.2	64.4	63.3	62.3
65°	60.9	59.3	57.9	56.5	56.4	55.2	54.1	53.2	51.7	50.8	48.8
67.5°	49.7	48.2	46.7	45.3	44.3	44.0	42.3	41.3	40.2	38.4	36.7
70°	39.5	37.9	36.7	35.1	34.6	33.4	32.2	31.1	29.3	27.7	26.3
72.5°	30.1	28.4	27.1	25.8	25.1	24.0	22.8	21.6	19.8	18.1	16.9
75°	21.5	20.3	18.9	17.7	17.1	16.5	15.1	13.8	12.5	10.9	9.8
77.5°	14.5	13.3	12.1	11.0	10.3	9.8	8.9	7.9	6.8	5.9	5.1
80°	8.5	7.7	6.8	5.9	5.7	5.3	4.5	3.9	3.3	2.9	2.3
82.5°	4.1	3.6	3.0	2.6	2.3	2.1	1.8	1.5	1.2	1.1	1.1
85°	1.2	1.1	0.9	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P683868

CATALOG NUMBER: LX6C10D010 EX6C109027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	448.5	448.3	448.2	448.0	447.7	447.7	447.3	447.0	447.0	446.7	446.5
5°	444.6	444.1	444.0	443.7	443.4	443.2	442.6	442.4	442.1	441.8	441.8
7.5°	439.0	438.4	437.8	437.5	437.3	436.9	436.6	436.4	435.9	435.6	435.0
10°	431.6	431.1	430.4	430.1	429.8	429.4	428.7	428.2	428.1	427.8	427.5
12.5°	423.0	422.3	421.6	421.0	420.7	420.2	419.5	419.0	419.0	418.4	418.4
15°	413.7	412.8	411.5	410.9	410.7	409.8	409.2	408.6	407.8	407.5	407.5
17.5°	401.9	400.4	399.2	399.2	398.6	397.7	396.8	396.3	395.9	395.3	395.0
20°	388.0	387.0	385.6	385.6	384.3	384.0	383.0	382.9	381.8	382.0	381.5
22.5°	371.3	370.6	369.9	369.3	368.5	367.6	367.2	367.3	366.9	366.7	366.6
25°	354.3	352.7	351.8	351.5	351.1	350.4	350.1	349.9	349.9	349.5	349.6
27.5°	334.8	333.6	332.4	332.9	332.3	331.8	331.5	331.0	331.3	331.2	331.3
30°	314.9	313.4	312.6	312.9	312.8	311.5	312.1	312.0	312.1	312.1	312.5
32.5°	293.9	292.8	292.6	292.8	291.4	291.6	291.0	291.9	292.0	293.0	292.2
35°	272.5	271.9	270.9	270.7	270.9	270.7	270.7	271.3	271.2	272.1	271.8
37.5°	250.6	250.3	249.3	249.6	249.0	250.0	250.3	250.0	251.1	250.8	250.6
40°	229.2	228.7	228.1	229.3	228.6	228.0	229.0	228.1	228.4	229.3	229.3
42.5°	207.4	206.6	206.6	206.6	206.5	206.5	206.9	207.4	207.1	207.2	208.5
45°	185.5	185.3	184.9	185.2	185.0	185.8	185.8	186.1	186.7	187.3	187.0
47.5°	164.3	164.0	164.5	164.2	164.3	163.9	164.2	165.1	165.8	164.8	165.8
50°	144.5	143.9	143.8	144.2	144.1	143.9	144.2	144.2	143.9	143.9	145.0
52.5°	125.6	125.0	124.6	125.3	124.9	125.0	124.4	124.4	124.7	124.4	124.0
55°	107.9	107.5	106.9	107.2	106.4	106.3	105.7	105.7	105.2	104.9	104.0
57.5°	91.0	90.7	89.3	89.2	89.3	88.3	87.2	86.8	85.6	85.3	85.1
60°	76.0	74.4	73.6	72.7	72.1	71.7	70.4	69.7	67.9	66.8	66.7
62.5°	60.5	59.7	58.8	57.4	57.1	55.6	54.4	52.5	51.5	50.2	48.8
65°	47.9	46.0	44.6	43.8	42.6	41.3	39.9	37.8	36.7	35.1	33.7
67.5°	35.1	33.4	31.6	31.0	29.9	28.3	26.9	25.1	24.2	22.7	22.2
70°	24.0	22.5	21.2	20.3	19.5	17.8	16.5	15.9	15.0	14.7	14.7
72.5°	15.4	14.1	12.5	12.1	11.5	10.6	9.7	9.4	9.7	9.5	9.5
75°	8.6	7.9	6.8	6.3	6.3	6.0	5.9	5.9	5.9	5.9	5.9
77.5°	4.4	3.9	3.6	3.5	3.5	3.5	3.6	3.6	3.6	3.8	3.6
80°	2.1	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.3	2.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2
85°	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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: P683868

CATALOG NUMBER: LX6C10D010 EX6C109027 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	449.7	449.7	449.7	449.7	449.7	449.7	449.7	449.7
2.5°	446.4	446.1	446.1	445.9	445.9	445.9	445.9	446.1
5°	441.5	441.4	441.4	441.1	441.1	441.1	441.1	441.1
7.5°	435.0	434.7	434.9	434.6	434.6	434.7	434.6	434.4
10°	427.0	426.9	427.0	427.0	426.7	426.6	426.7	426.9
12.5°	418.0	417.8	417.5	417.7	417.7	417.5	417.4	417.1
15°	407.4	407.2	407.1	406.9	406.8	406.9	406.8	406.5
17.5°	395.0	395.0	394.8	394.7	394.5	394.2	394.4	394.8
20°	381.7	381.5	381.2	381.4	380.8	380.5	380.6	381.1
22.5°	366.4	366.0	366.3	365.8	365.8	366.0	365.8	365.5
25°	349.8	349.2	349.5	349.6	349.6	349.5	349.3	349.5
27.5°	331.3	331.8	331.8	331.5	332.0	331.3	331.6	331.8
30°	312.5	312.0	311.8	312.5	313.4	312.6	312.6	312.8
32.5°	293.0	292.3	292.3	292.6	292.5	292.5	293.1	292.3
35°	272.1	272.4	271.2	271.9	272.2	271.9	272.1	272.1
37.5°	251.1	250.8	250.8	250.8	251.2	251.2	251.5	251.4
40°	230.4	229.8	229.6	229.9	229.3	229.8	229.8	229.3
42.5°	208.0	208.1	208.9	208.1	208.3	208.1	207.8	207.7
45°	187.3	187.7	187.4	187.3	187.4	186.8	187.0	187.4
47.5°	165.4	166.3	165.4	166.0	165.8	165.5	165.2	164.6
50°	144.8	145.1	145.0	144.8	144.7	144.5	143.8	143.3
52.5°	123.8	123.8	123.8	123.8	122.3	123.0	122.7	121.8
55°	103.2	103.7	103.1	103.1	102.0	102.0	101.7	101.9
57.5°	83.4	83.0	82.5	82.5	81.5	81.0	80.6	80.0
60°	65.0	64.5	63.9	63.2	62.1	62.1	61.8	60.6
62.5°	47.6	46.9	46.4	45.8	44.9	44.3	43.8	44.1
65°	32.7	31.9	31.3	31.3	31.3	31.0	30.8	30.8
67.5°	21.5	21.9	21.6	21.9	21.9	21.6	21.5	21.8
70°	14.8	14.8	14.7	14.7	14.7	14.7	14.5	14.7
72.5°	9.5	9.5	9.5	9.7	9.5	9.5	9.7	9.7
75°	6.0	6.0	6.0	6.2	6.0	6.0	6.2	6.0
77.5°	3.6	3.8	3.8	3.8	3.8	3.6	3.8	3.8
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)