

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: P683904

Luminaire Tested: **LX6C10D010 EX6C109035 6LCSWH**

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: P683904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C10D010 EX6C109035 6LCSWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

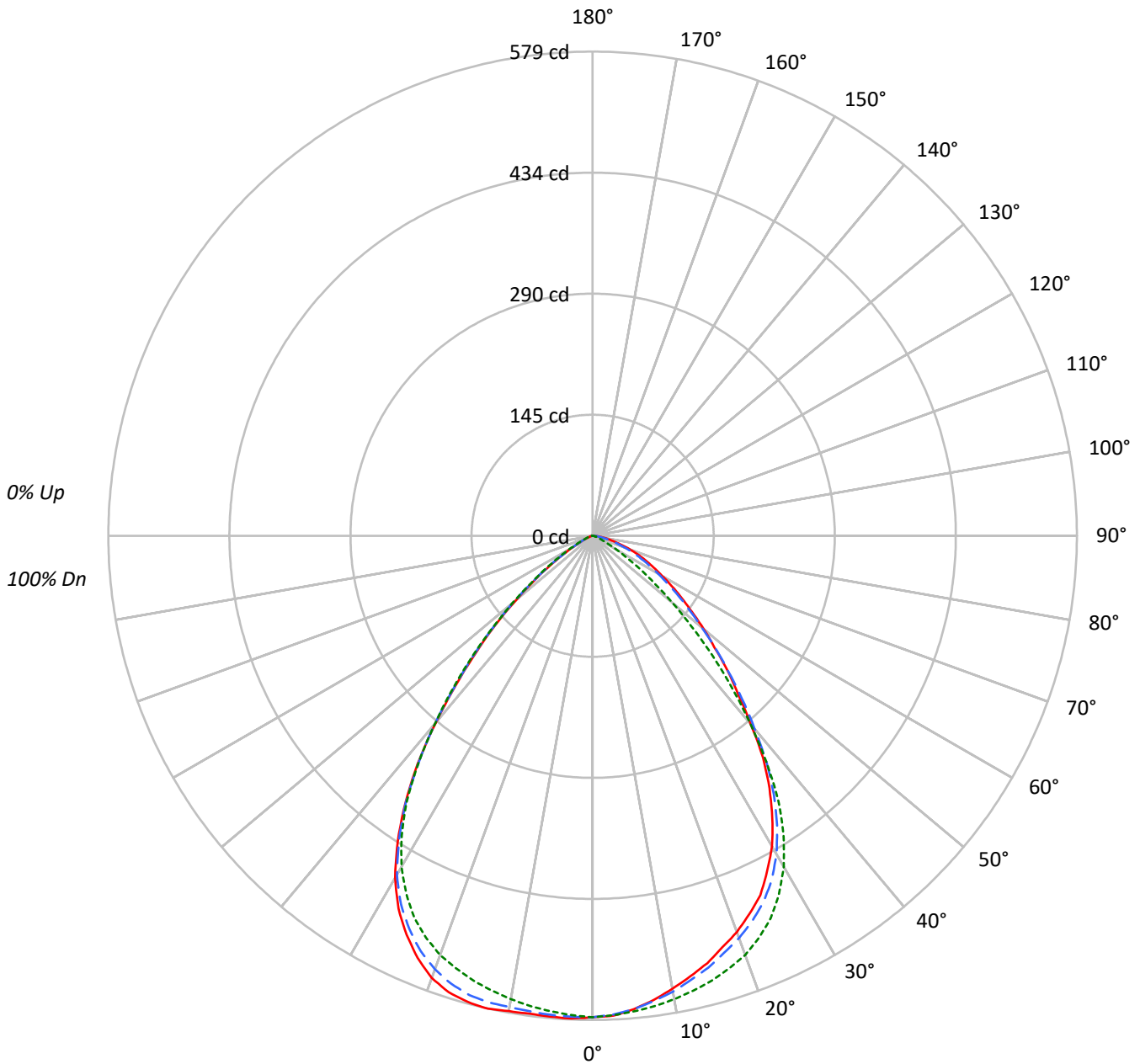
Lumens per Lamp: N/A
Luminaire Lumens: 966.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P683904

CATALOG NUMBER: LX6C10D010 EX6C109035 6LCSWH

Luminous Intensity Polar Plot





TEST NUMBER: P683904

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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			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31565	31565	31565
5°	31262	31416	31763
10°	30622	31318	32130
15°	30034	31260	32758
20°	29414	31118	32821
25°	28689	30498	31841
30°	27162	28922	29891
35°	24668	25919	26154
40°	21054	20954	20853
45°	17684	15692	15203
50°	14771	10618	10081
55°	12425	6509	5916
60°	10525	3432	2971
65°	9106	1803	1440
70°	7581	1122	785
75°	5592	741	445
80°	4388	442	221
85°	3522	440	0



TEST NUMBER: P683904

CATALOG NUMBER: LX6C10D010 EX6C109035 6LCSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	5.6
10°-20°	155.4	16.1
20°-30°	229.4	23.8
30°-40°	236.5	24.5
40°-50°	163.3	16.9
50°-60°	80.5	8.3
60°-70°	32.6	3.4
70°-80°	11.6	1.2
80°-90°	2.4	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°	439.1	45.5
0°-40°	675.5	69.9
0°-60°	919.4	95.2
0°-90°	966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	966.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	576	576	576	576	576	
5°	568	568	571	575	577	54
15°	529	535	551	569	577	149
25°	474	483	504	519	526	217
35°	369	378	387	389	391	228
45°	228	230	202	200	196	176
55°	130	125	68	64	62	118
65°	70	63	14	11	11	70
75°	26	22	4	2	2	30
85°	6	4	1	0	0	7
90°	0	0	0	0	0	



TEST NUMBER: P683904

CATALOG NUMBER: LX6C10D010 EX6C109035 6LCSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	574.4	572.3	573.7	570.9	574.4	570.9	571.6	572.3	571.6	572.3	573.0
5°	568.1	566.1	568.1	564.7	568.1	566.1	566.1	566.8	566.8	567.4	568.1
7.5°	559.8	557.7	559.8	556.3	560.5	558.4	558.4	559.8	559.1	559.8	561.2
10°	550.1	547.3	549.4	547.3	551.5	548.7	550.1	550.1	550.1	552.1	553.6
12.5°	539.6	536.8	539.6	536.2	540.3	538.3	538.9	541.0	541.7	543.1	543.8
15°	529.2	525.7	527.1	525.0	529.2	527.1	527.8	530.6	530.6	532.7	534.8
17.5°	516.0	513.2	516.0	513.2	516.7	515.3	516.7	518.8	518.8	520.9	522.9
20°	504.2	501.4	503.5	501.4	505.6	503.5	504.2	507.0	507.6	509.7	511.8
22.5°	489.6	487.5	488.9	486.8	490.9	489.6	490.3	493.0	493.7	495.1	498.6
25°	474.3	470.1	472.2	470.8	475.0	472.9	474.3	477.0	478.4	480.5	483.3
27.5°	452.0	449.9	451.3	451.3	454.8	452.7	453.4	456.2	458.3	460.4	463.8
30°	429.1	425.6	427.0	427.7	430.5	429.1	430.5	433.2	433.9	436.7	439.5
32.5°	399.9	398.5	401.3	399.9	401.3	401.3	401.9	404.0	405.4	406.8	410.3
35°	368.6	365.8	368.6	367.2	370.7	368.6	370.7	372.7	372.7	375.5	377.6
37.5°	334.5	331.0	332.4	332.4	333.8	333.1	333.1	336.6	337.3	339.4	341.4
40°	294.2	292.8	295.6	294.8	295.6	295.6	296.2	298.3	299.7	300.4	301.1
42.5°	258.0	258.7	259.4	259.4	259.4	259.4	259.4	262.2	261.5	263.6	264.2
45°	228.1	225.3	226.7	226.0	228.1	226.0	228.1	230.2	228.8	230.9	229.5
47.5°	197.5	197.5	197.5	196.8	198.2	197.5	198.9	199.6	199.6	199.6	198.9
50°	173.2	171.1	171.8	171.8	172.5	171.8	173.2	173.8	173.8	172.5	169.7
52.5°	149.5	148.8	148.8	150.2	150.2	149.5	149.5	149.5	149.5	147.4	146.0
55°	130.0	128.7	129.3	129.3	129.3	129.3	130.0	129.3	129.3	127.2	125.2
57.5°	112.7	111.3	111.3	111.3	111.9	111.3	111.3	111.3	110.6	108.5	105.7
60°	96.0	95.3	96.0	96.0	96.7	96.0	96.0	96.0	94.6	92.5	89.7
62.5°	82.1	82.1	82.1	82.7	82.7	82.1	82.1	81.4	80.7	77.9	75.1
65°	70.2	69.5	70.2	70.2	70.9	70.9	70.2	69.5	68.9	66.1	63.3
67.5°	58.4	57.7	58.4	58.4	59.1	58.4	58.4	58.4	56.3	54.9	52.1
70°	47.3	46.6	46.6	46.6	47.3	45.9	46.6	46.6	45.2	43.1	40.3
72.5°	36.2	36.2	36.2	36.2	36.2	36.2	35.5	35.5	34.1	32.0	30.6
75°	26.4	26.4	27.1	27.1	26.4	26.4	26.4	25.7	25.0	23.6	22.3
77.5°	19.5	19.5	19.5	19.5	18.8	18.8	18.8	18.1	17.4	16.7	15.3
80°	13.9	13.9	13.9	13.2	13.9	13.2	13.2	13.2	11.8	11.1	10.4
82.5°	9.7	9.0	9.0	9.0	9.0	9.0	9.0	8.3	8.3	7.7	7.0
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.2	4.2
87.5°	2.8	3.5	3.5	3.5	3.5	3.5	3.5	2.8	2.8	2.8	2.1
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: P683904

CATALOG NUMBER: LX6C10D010 EX6C109035 6LCSWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	573.0	573.0	574.4	572.3	575.8	573.7	573.0	576.5	574.4	573.7	575.1
5°	568.1	568.8	569.5	568.1	571.6	569.5	569.5	573.0	571.6	570.9	573.0
7.5°	561.9	562.6	564.0	563.3	566.1	564.7	565.4	568.8	567.4	567.4	569.5
10°	554.2	555.6	557.0	557.0	560.5	559.1	559.1	563.3	561.9	562.6	565.4
12.5°	545.2	547.3	549.4	550.1	553.6	551.5	552.1	557.0	556.3	557.0	559.8
15°	535.5	538.3	540.3	540.3	544.5	542.4	544.5	549.4	548.0	550.8	554.2
17.5°	524.3	527.1	529.9	530.6	534.8	533.4	536.2	541.0	541.0	542.4	546.6
20°	513.9	517.4	518.8	520.9	525.0	524.3	525.7	531.3	531.3	533.4	537.5
22.5°	500.0	503.5	506.2	508.3	511.8	511.8	513.9	518.8	518.8	520.2	524.3
25°	484.7	488.9	490.9	493.0	496.5	495.8	497.9	502.1	502.8	504.2	508.3
27.5°	465.2	468.7	471.5	472.9	477.7	475.0	477.0	481.9	481.2	482.6	486.1
30°	440.9	444.4	447.1	447.1	451.3	451.3	453.4	455.5	455.5	456.9	459.7
32.5°	412.4	416.5	416.5	418.6	421.4	418.6	421.4	424.2	422.8	424.9	427.0
35°	379.7	381.8	382.5	382.5	384.6	383.9	383.2	385.2	383.9	387.3	389.4
37.5°	340.1	342.8	341.4	342.8	342.1	340.1	340.1	343.5	340.7	341.4	343.5
40°	301.8	301.8	301.1	297.6	298.3	296.2	295.6	296.2	293.5	292.8	295.6
42.5°	262.2	261.5	259.4	254.5	255.2	251.7	249.0	249.0	247.6	246.9	247.6
45°	226.7	224.6	221.1	215.6	214.2	211.4	205.8	204.4	202.4	202.4	203.1
47.5°	194.0	191.2	185.7	179.4	175.9	172.5	166.9	164.8	161.3	159.9	161.3
50°	166.9	162.0	155.1	146.0	142.5	138.4	132.8	129.3	125.9	124.5	123.8
52.5°	141.9	134.9	128.0	116.8	114.0	109.9	102.2	98.7	95.3	92.5	92.5
55°	120.3	114.0	104.3	93.9	89.7	85.5	77.9	73.0	69.5	68.1	66.8
57.5°	100.8	93.9	84.8	73.7	69.5	65.4	57.7	52.8	49.4	47.3	45.9
60°	84.8	77.2	68.1	58.4	53.6	49.4	41.7	36.8	33.4	31.3	29.9
62.5°	69.5	63.3	54.2	45.2	41.0	36.8	30.6	25.7	22.3	20.9	18.8
65°	58.4	52.1	43.8	36.2	32.7	28.5	23.0	18.8	16.0	13.9	12.5
67.5°	47.3	42.4	35.5	28.5	25.0	22.3	17.4	13.9	11.1	9.7	9.0
70°	37.6	32.7	27.1	21.5	19.5	16.7	13.2	9.7	8.3	7.0	6.2
72.5°	27.8	24.3	20.2	16.0	13.9	12.5	9.0	7.7	5.6	4.9	4.2
75°	20.2	17.4	14.6	11.1	9.7	9.0	7.0	4.9	4.2	3.5	2.8
77.5°	13.9	12.5	9.7	7.7	7.0	6.2	4.9	3.5	2.8	2.1	2.1
80°	9.0	7.7	6.2	4.9	4.9	4.2	2.8	2.1	2.1	1.4	1.4
82.5°	5.6	4.9	4.2	3.5	2.8	2.8	2.1	1.4	1.4	0.7	0.7
85°	3.5	2.8	2.1	2.1	1.4	1.4	1.4	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	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: P683904

CATALOG NUMBER: LX6C10D010 EX6C109035 6LCSWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	575.1	575.1	576.5	574.4	575.8	575.8	577.2	574.4	575.8	576.5	577.9
5°	572.3	573.0	574.4	573.7	574.4	574.4	575.8	572.3	575.1	575.1	577.2
7.5°	569.5	569.5	570.9	570.2	571.6	572.3	573.7	570.9	573.7	573.7	575.8
10°	566.1	566.1	568.1	567.4	569.5	570.2	572.3	569.5	572.3	573.0	575.1
12.5°	561.2	561.9	564.0	564.0	566.1	567.4	569.5	568.1	571.6	572.3	575.1
15°	555.6	557.0	559.8	559.1	561.2	563.3	566.1	564.0	568.8	570.2	573.0
17.5°	548.7	550.1	552.1	552.1	554.2	555.6	559.1	557.7	561.9	562.6	566.1
20°	538.3	540.3	543.1	542.4	544.5	545.9	548.7	547.3	551.5	552.8	556.3
22.5°	525.7	527.1	529.2	529.2	531.3	532.7	535.5	533.4	537.5	538.3	541.0
25°	509.0	510.4	511.8	512.5	514.6	515.3	516.7	515.3	518.8	519.5	522.9
27.5°	487.5	488.2	490.3	490.3	491.7	492.3	494.4	491.7	496.5	496.5	498.6
30°	461.7	461.1	463.8	462.4	463.8	463.8	465.9	464.5	468.0	466.6	468.7
32.5°	427.7	429.1	429.1	427.7	430.5	429.8	429.8	428.4	430.5	431.1	432.5
35°	388.0	390.1	390.1	390.8	391.5	389.4	390.1	386.0	389.4	390.1	390.8
37.5°	344.9	342.8	344.2	342.1	345.6	341.4	341.4	338.7	341.4	341.4	342.1
40°	295.6	294.8	296.2	294.8	294.2	293.5	292.1	290.0	292.8	291.4	293.5
42.5°	249.0	248.2	248.2	246.9	246.2	246.2	244.8	243.4	242.7	242.7	246.2
45°	201.0	202.4	201.0	200.3	201.7	200.3	201.0	198.2	199.6	198.2	199.6
47.5°	160.6	161.3	159.9	158.5	160.6	158.5	158.5	156.5	159.3	159.3	157.8
50°	124.5	123.8	122.4	123.8	123.1	123.1	123.1	121.0	122.4	120.3	121.7
52.5°	91.8	91.1	91.1	90.4	91.1	90.4	90.4	89.7	89.7	89.0	89.7
55°	66.8	66.1	64.7	64.7	64.7	65.4	64.7	64.0	64.0	63.3	64.0
57.5°	45.2	43.8	43.8	43.8	43.8	43.1	43.1	42.4	43.1	42.4	43.1
60°	29.2	29.2	27.8	27.8	27.8	27.8	27.8	27.1	27.8	27.8	27.8
62.5°	18.1	18.1	17.4	16.7	17.4	16.7	16.7	16.7	17.4	16.7	17.4
65°	11.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
67.5°	8.3	7.7	7.7	7.7	7.7	7.7	7.7	7.0	7.7	7.7	7.7
70°	5.6	5.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	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	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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: P683904

CATALOG NUMBER: LX6C10D010 EX6C109035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	575.8	576.5	575.1	575.8	574.4	575.8	576.5	577.9
5°	574.4	575.1	573.7	575.1	573.7	575.1	575.8	577.2
7.5°	573.0	574.4	573.0	574.4	573.0	574.4	575.1	576.5
10°	573.0	575.1	573.7	575.8	573.7	575.1	576.5	577.2
12.5°	573.0	575.1	574.4	575.8	575.1	576.5	577.9	579.3
15°	571.6	573.7	572.3	574.4	573.7	574.4	577.2	577.2
17.5°	564.0	566.1	566.1	567.4	567.4	569.5	570.9	572.3
20°	554.2	556.3	555.6	557.7	557.7	559.8	561.2	562.6
22.5°	539.6	542.4	541.7	543.8	543.1	544.5	547.3	546.6
25°	520.9	524.3	523.6	525.0	524.3	524.3	525.7	526.4
27.5°	497.9	500.0	499.3	500.7	499.3	500.7	502.1	502.8
30°	468.0	469.4	468.7	469.4	468.7	470.1	470.8	472.2
32.5°	431.8	433.9	431.8	433.2	432.5	432.5	435.3	433.9
35°	388.7	389.4	390.1	390.1	388.7	389.4	390.8	390.8
37.5°	340.7	344.2	340.1	342.1	341.4	341.4	341.4	343.5
40°	290.7	291.4	290.0	290.0	290.0	289.3	292.1	291.4
42.5°	243.4	244.1	243.4	241.3	242.0	242.0	244.1	241.3
45°	197.5	198.9	198.2	198.2	196.8	196.8	197.5	196.1
47.5°	156.5	157.8	155.8	156.5	155.1	156.5	155.8	157.2
50°	118.9	120.3	119.6	120.3	120.3	118.9	121.0	118.2
52.5°	89.0	89.7	89.0	88.3	87.6	87.6	89.0	88.3
55°	63.3	62.6	62.6	62.6	63.3	63.3	62.6	61.9
57.5°	42.4	42.4	41.7	41.7	42.4	41.0	41.7	41.0
60°	27.1	27.1	27.1	27.1	26.4	27.1	27.1	27.1
62.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
65°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
67.5°	7.0	7.7	7.7	7.7	7.0	7.0	7.0	7.0
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)