

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: P684613

Luminaire Tested: **LX6C08D010 EX6C089035 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: P684613  
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 EX6C089035 6LBLWWH  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

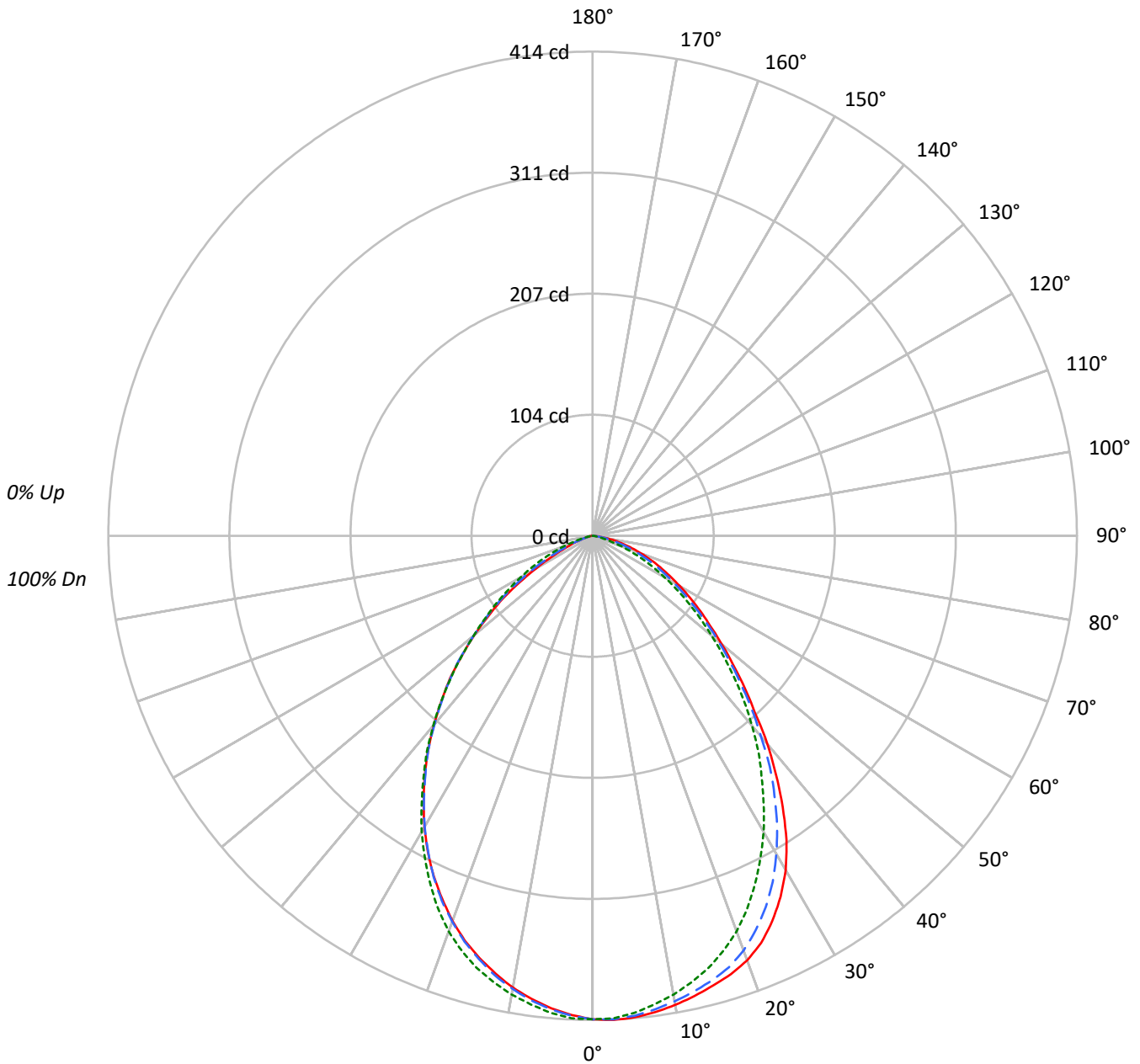
Lumens per Lamp: N/A  
Luminaire Lumens: 752.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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

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### Luminous Intensity Polar Plot





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**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°	22663	22663	22663
5°	22744	22535	22314
10°	22673	22172	21843
15°	22588	21714	21209
20°	22536	20996	20436
25°	21987	19870	19435
30°	20889	18509	18199
35°	18959	16851	16737
40°	16638	15164	15085
45°	14265	13249	13358
50°	12281	11292	11232
55°	10733	9538	8955
60°	9429	7817	6107
65°	8250	6058	3671
70°	7036	4071	2164
75°	5676	2118	1186
80°	3946	821	663
85°	1572	252	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	5.2
10°-20°	108.2	14.4
20°-30°	153.9	20.5
30°-40°	162.0	21.5
40°-50°	135.0	18.0
50°-60°	91.2	12.1
60°-70°	46.2	6.1
70°-80°	14.9	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°	300.8	40.0
0°-40°	462.9	61.6
0°-60°	689.1	91.6
0°-90°	752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	413	413	413	413	413	
5°	413	412	410	406	406	39
15°	398	394	383	375	374	112
25°	364	350	328	322	321	167
35°	283	271	252	249	250	176
45°	184	179	171	172	172	142
55°	112	107	100	97	94	101
65°	64	57	47	34	28	63
75°	27	21	10	5	6	29
85°	2	1	0	1	1	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4
2.5°	414.4	414.4	414.4	414.4	414.4	414.4	414.3	414.3	414.0	414.0	413.8
5°	413.3	413.4	413.4	413.3	413.3	413.0	413.0	412.9	412.4	412.2	412.0
7.5°	410.9	410.9	410.8	410.6	410.5	410.1	409.9	409.5	409.3	409.0	408.4
10°	407.3	407.3	407.2	406.9	406.8	406.5	406.5	405.9	405.4	404.7	404.2
12.5°	403.0	403.1	402.9	402.7	402.3	402.2	401.9	401.2	400.8	399.9	399.2
15°	398.0	398.3	398.3	397.7	397.3	397.2	396.7	396.3	395.4	394.5	393.7
17.5°	393.1	393.4	393.1	392.7	392.3	391.7	391.5	390.6	389.4	388.3	387.0
20°	386.3	386.7	386.2	385.5	384.7	384.5	384.1	382.7	380.9	379.2	377.4
22.5°	376.7	376.5	376.0	375.8	374.4	373.5	373.0	371.2	369.2	367.0	364.8
25°	363.5	364.1	363.3	362.0	361.3	360.5	359.1	357.1	355.3	353.0	350.3
27.5°	348.0	348.0	346.9	346.4	344.9	343.8	343.1	341.2	338.8	336.4	333.5
30°	330.0	329.2	329.2	327.3	326.0	325.6	324.9	321.7	319.6	317.1	314.2
32.5°	308.4	308.2	307.7	306.4	304.8	303.4	303.4	301.1	298.4	295.3	293.5
35°	283.3	283.5	283.2	281.8	281.8	280.2	279.9	277.9	275.7	273.3	271.1
37.5°	257.5	258.1	257.5	256.8	256.4	256.3	255.0	253.6	251.9	250.6	248.9
40°	232.5	231.7	231.9	230.5	230.7	230.4	229.8	228.0	227.1	225.7	223.9
42.5°	205.5	206.4	206.6	205.8	205.5	205.0	205.5	204.8	203.7	203.0	201.4
45°	184.0	183.2	183.6	183.3	183.4	182.3	181.9	181.6	181.2	180.0	179.3
47.5°	162.6	162.7	162.6	162.0	161.8	161.8	161.2	160.4	160.4	159.5	159.0
50°	144.0	144.0	144.2	143.6	143.3	142.7	142.9	142.0	141.5	140.8	140.4
52.5°	126.9	127.0	126.5	126.6	126.3	126.3	125.8	125.2	124.7	123.4	123.1
55°	112.3	112.4	111.7	112.0	111.2	110.8	110.5	109.6	109.6	108.4	106.9
57.5°	98.7	98.5	98.4	98.0	97.4	97.0	96.6	95.6	95.2	94.4	93.1
60°	86.0	85.9	85.6	85.5	85.0	84.1	84.1	83.4	82.0	81.2	79.9
62.5°	74.1	74.1	73.9	73.5	73.1	72.7	72.4	71.8	70.5	69.5	68.4
65°	63.6	63.5	63.1	62.4	62.1	62.1	61.1	60.7	59.6	58.6	57.4
67.5°	53.6	53.1	52.8	52.9	52.1	52.1	51.3	50.6	49.6	47.9	47.0
70°	43.9	43.6	43.4	43.1	42.9	42.4	42.0	41.1	40.2	38.9	37.4
72.5°	35.2	35.2	34.7	34.5	34.0	33.5	33.2	32.5	31.4	30.0	28.9
75°	26.8	26.8	26.8	26.3	26.0	25.7	24.9	24.5	23.2	22.4	21.0
77.5°	19.7	19.5	19.0	18.9	18.6	18.3	17.9	17.2	16.1	15.1	14.3
80°	12.5	12.9	12.5	12.5	11.8	11.5	11.4	10.6	10.1	9.3	8.6
82.5°	6.9	7.1	6.8	6.7	6.3	6.1	6.1	5.6	5.3	4.7	4.3
85°	2.5	2.6	2.5	2.5	2.2	2.4	2.2	2.1	1.8	1.5	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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4
2.5°	413.8	413.6	413.6	413.4	413.3	413.3	413.3	413.1	412.9	412.9	412.7
5°	411.8	411.5	411.1	410.8	410.6	410.5	410.4	410.2	409.7	409.5	409.1
7.5°	408.0	407.7	407.0	406.8	406.3	406.2	405.6	405.4	404.8	404.2	404.0
10°	403.6	402.9	402.3	401.6	401.3	400.9	400.2	399.4	399.0	398.3	397.7
12.5°	398.6	397.7	396.6	395.8	395.5	394.8	393.7	393.0	392.0	390.9	389.9
15°	392.3	391.3	390.4	388.8	388.4	387.6	386.5	385.1	383.7	382.6	381.5
17.5°	385.5	384.0	382.4	380.8	379.5	379.1	377.3	375.3	374.1	372.1	370.9
20°	375.9	373.8	371.3	369.6	368.5	367.3	365.2	363.1	361.6	359.9	358.1
22.5°	362.7	360.8	357.8	355.3	354.5	352.7	350.9	348.9	347.0	345.2	343.0
25°	347.1	345.1	342.1	339.6	338.2	337.4	333.9	332.0	330.0	328.5	327.0
27.5°	331.2	327.4	325.5	321.6	320.3	320.0	316.8	314.8	312.7	310.6	308.6
30°	311.4	308.5	305.6	302.8	301.1	300.2	297.8	295.2	293.8	292.4	290.4
32.5°	291.0	288.4	284.7	282.1	280.8	279.5	277.4	275.6	273.5	272.0	271.5
35°	269.2	266.3	263.2	261.3	261.0	259.3	257.2	255.7	254.2	251.8	251.4
37.5°	245.8	244.2	242.1	239.3	238.0	238.0	236.0	234.9	232.9	232.8	231.7
40°	222.9	222.2	219.0	218.2	217.9	216.0	215.4	213.5	212.1	211.9	210.3
42.5°	200.2	198.4	197.9	196.5	195.2	195.0	193.7	192.9	192.3	191.5	190.7
45°	177.7	177.3	175.9	175.0	174.5	174.0	173.6	171.9	171.6	170.9	170.5
47.5°	158.3	157.2	155.9	154.8	154.7	153.8	152.9	152.9	151.3	151.2	150.9
50°	139.0	138.1	137.4	135.9	136.2	135.1	134.9	133.7	133.0	132.4	133.1
52.5°	122.0	120.3	120.1	118.8	118.4	118.5	117.0	116.6	116.3	115.8	115.5
55°	105.9	105.1	103.9	103.1	102.4	101.7	101.2	101.2	99.6	99.8	99.1
57.5°	91.7	91.0	89.6	88.4	88.1	87.3	86.6	85.9	85.7	84.8	84.1
60°	79.1	77.8	76.0	75.5	74.6	73.9	73.2	72.4	72.0	71.3	70.0
62.5°	67.3	65.2	64.5	63.4	62.4	62.0	60.9	59.9	59.2	58.2	57.3
65°	56.0	54.5	53.2	52.0	51.8	50.7	49.7	48.9	47.5	46.7	44.9
67.5°	45.7	44.3	42.9	41.7	40.7	40.4	38.9	37.9	37.0	35.3	33.8
70°	36.3	34.9	33.8	32.2	31.8	30.7	29.6	28.6	27.0	25.4	24.2
72.5°	27.7	26.1	24.9	23.8	23.1	22.1	21.0	19.9	18.2	16.7	15.6
75°	19.7	18.6	17.4	16.3	15.7	15.1	13.9	12.6	11.5	10.0	9.0
77.5°	13.3	12.2	11.1	10.1	9.4	9.0	8.2	7.2	6.3	5.4	4.7
80°	7.8	7.1	6.3	5.4	5.3	4.9	4.2	3.6	3.1	2.6	2.1
82.5°	3.8	3.3	2.8	2.4	2.1	1.9	1.7	1.4	1.1	1.0	1.0
85°	1.1	1.0	0.8	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4
2.5°	412.3	412.2	412.0	411.9	411.6	411.6	411.2	410.9	410.9	410.6	410.5
5°	408.7	408.3	408.1	407.9	407.6	407.4	406.9	406.8	406.5	406.2	406.2
7.5°	403.6	403.0	402.4	402.2	402.0	401.6	401.3	401.2	400.8	400.5	399.9
10°	396.7	396.3	395.6	395.4	395.1	394.8	394.1	393.7	393.5	393.3	393.0
12.5°	388.8	388.3	387.6	387.0	386.7	386.3	385.6	385.2	385.2	384.7	384.7
15°	380.3	379.5	378.3	377.7	377.6	376.7	376.2	375.6	374.9	374.7	374.7
17.5°	369.5	368.1	367.0	367.0	366.5	365.6	364.8	364.4	363.9	363.4	363.1
20°	356.7	355.8	354.5	354.5	353.2	353.0	352.1	352.0	351.0	351.2	350.7
22.5°	341.3	340.7	340.0	339.5	338.8	338.0	337.5	337.7	337.3	337.1	337.0
25°	325.7	324.2	323.4	323.1	322.8	322.1	321.8	321.7	321.7	321.3	321.4
27.5°	307.8	306.7	305.6	306.0	305.4	305.0	304.8	304.3	304.6	304.5	304.6
30°	289.5	288.1	287.4	287.7	287.5	286.4	287.0	286.8	287.0	287.0	287.2
32.5°	270.1	269.2	269.0	269.2	267.9	268.1	267.5	268.3	268.5	269.3	268.6
35°	250.6	250.0	249.0	248.9	249.0	248.9	248.9	249.4	249.3	250.1	249.9
37.5°	230.4	230.1	229.2	229.4	228.9	229.8	230.1	229.8	230.8	230.5	230.4
40°	210.7	210.3	209.7	210.8	210.1	209.6	210.5	209.7	210.0	210.8	210.8
42.5°	190.7	190.0	190.0	190.0	189.8	189.8	190.2	190.7	190.4	190.5	191.6
45°	170.5	170.4	170.0	170.2	170.1	170.8	170.8	171.1	171.6	172.2	171.9
47.5°	151.1	150.8	151.2	150.9	151.1	150.6	150.9	151.7	152.4	151.5	152.4
50°	132.9	132.3	132.2	132.6	132.4	132.3	132.6	132.6	132.3	132.3	133.3
52.5°	115.5	114.9	114.5	115.2	114.8	114.9	114.4	114.4	114.6	114.4	114.0
55°	99.2	98.8	98.2	98.5	97.8	97.7	97.1	97.1	96.7	96.4	95.6
57.5°	83.7	83.4	82.1	82.0	82.1	81.2	80.2	79.8	78.7	78.4	78.2
60°	69.9	68.4	67.7	66.8	66.3	65.9	64.8	64.1	62.4	61.4	61.3
62.5°	55.6	54.9	54.1	52.8	52.5	51.1	50.0	48.2	47.4	46.1	44.9
65°	44.1	42.2	41.0	40.3	39.2	37.9	36.7	34.7	33.8	32.2	31.0
67.5°	32.2	30.7	29.0	28.5	27.5	26.0	24.7	23.1	22.2	20.8	20.4
70°	22.1	20.7	19.5	18.6	17.9	16.4	15.1	14.6	13.8	13.5	13.5
72.5°	14.2	12.9	11.5	11.1	10.6	9.7	8.9	8.6	8.9	8.8	8.8
75°	7.9	7.2	6.3	5.8	5.8	5.6	5.4	5.4	5.4	5.4	5.4
77.5°	4.0	3.6	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.5	3.3
80°	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.1	1.9
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: P684613

CATALOG NUMBER: LX6C08D010 EX6C089035 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4
2.5°	410.4	410.1	410.1	409.9	409.9	409.9	409.9	410.1
5°	405.9	405.8	405.8	405.5	405.5	405.5	405.5	405.5
7.5°	399.9	399.7	399.8	399.5	399.5	399.7	399.5	399.4
10°	392.6	392.4	392.6	392.6	392.3	392.2	392.3	392.4
12.5°	384.2	384.1	383.8	384.0	384.0	383.8	383.7	383.4
15°	374.5	374.4	374.2	374.1	374.0	374.1	374.0	373.7
17.5°	363.1	363.1	363.0	362.8	362.7	362.4	362.6	363.0
20°	350.9	350.7	350.5	350.6	350.1	349.8	349.9	350.3
22.5°	336.9	336.4	336.7	336.3	336.3	336.4	336.3	336.0
25°	321.6	321.0	321.3	321.4	321.4	321.3	321.1	321.3
27.5°	304.6	305.0	305.0	304.8	305.2	304.6	304.9	305.0
30°	287.2	286.8	286.7	287.2	288.1	287.4	287.4	287.5
32.5°	269.3	268.8	268.8	269.0	268.9	268.9	269.5	268.8
35°	250.1	250.4	249.3	250.0	250.3	250.0	250.1	250.1
37.5°	230.8	230.5	230.5	230.5	231.0	231.0	231.2	231.1
40°	211.8	211.2	211.1	211.4	210.8	211.2	211.2	210.8
42.5°	191.2	191.4	192.0	191.4	191.5	191.4	191.1	190.9
45°	172.2	172.6	172.3	172.2	172.3	171.8	171.9	172.3
47.5°	152.0	152.9	152.0	152.6	152.4	152.2	151.9	151.3
50°	133.1	133.4	133.3	133.1	133.0	132.9	132.2	131.7
52.5°	113.8	113.8	113.8	113.8	112.4	113.1	112.8	112.0
55°	94.9	95.3	94.8	94.8	93.8	93.8	93.5	93.7
57.5°	76.7	76.3	75.9	75.9	74.9	74.5	74.1	73.5
60°	59.8	59.3	58.8	58.1	57.1	57.1	56.8	55.7
62.5°	43.8	43.1	42.7	42.1	41.3	40.7	40.3	40.6
65°	30.0	29.3	28.8	28.8	28.8	28.5	28.3	28.3
67.5°	19.7	20.1	19.9	20.1	20.1	19.9	19.7	20.0
70°	13.6	13.6	13.5	13.5	13.5	13.5	13.3	13.5
72.5°	8.8	8.8	8.8	8.9	8.8	8.8	8.9	8.9
75°	5.6	5.6	5.6	5.7	5.6	5.6	5.7	5.6
77.5°	3.3	3.5	3.5	3.5	3.5	3.3	3.5	3.5
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



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















(END OF REPORT)