

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: P684606

Luminaire Tested: **LX6C08D010 EX6C089030 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: P684606  
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 EX6C089030 6LBLWWH  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

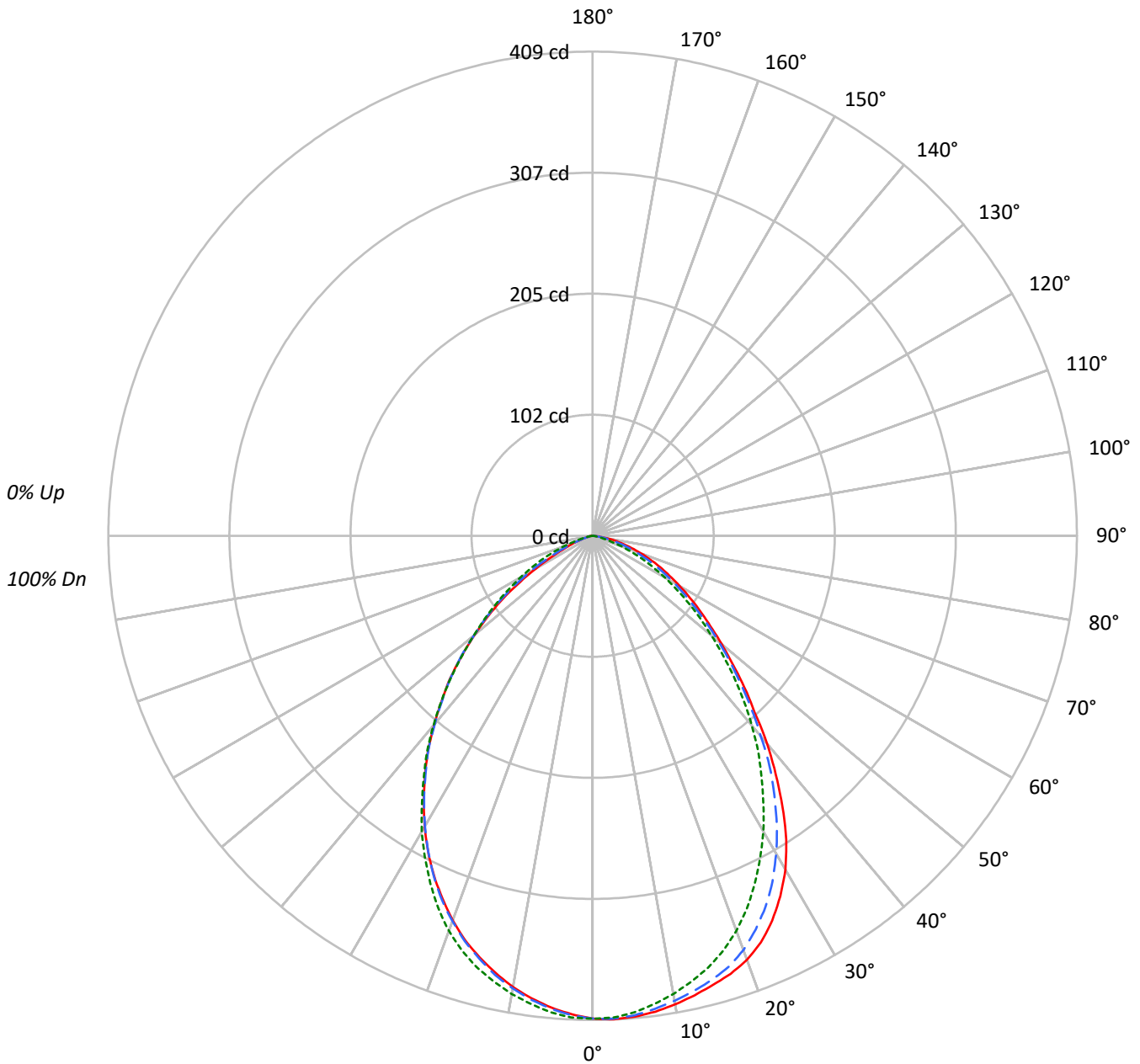
Lumens per Lamp: N/A  
Luminaire Lumens: 742.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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°	22361	22361	22361
5°	22441	22237	22017
10°	22372	21877	21554
15°	22287	21425	20925
20°	22239	20716	20168
25°	21697	19604	19174
30°	20617	18262	17958
35°	18712	16630	16517
40°	16416	14964	14885
45°	14071	13079	13180
50°	12119	11147	11087
55°	10590	9414	8831
60°	9308	7708	6030
65°	8146	5980	3632
70°	6940	4023	2132
75°	5613	2097	1165
80°	3883	821	663
85°	1572	252	314



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.2	5.2
10°-20°	106.7	14.4
20°-30°	151.9	20.5
30°-40°	159.9	21.5
40°-50°	133.2	18.0
50°-60°	90.0	12.1
60°-70°	45.6	6.2
70°-80°	14.7	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°	296.8	40.0
0°-40°	456.7	61.6
0°-60°	679.9	91.6
0°-90°	742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	742.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	408	408	408	408	408	
5°	408	407	404	401	400	39
15°	393	388	378	370	369	111
25°	359	346	324	317	317	164
35°	280	268	248	246	247	174
45°	182	177	169	169	170	141
55°	111	105	98	95	92	100
65°	63	57	46	33	28	62
75°	26	21	10	5	6	29
85°	2	1	0	0	0	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°	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9
2.5°	408.9	408.9	408.9	408.9	408.9	408.9	408.7	408.7	408.5	408.5	408.3
5°	407.8	407.9	407.9	407.8	407.8	407.5	407.5	407.4	407.0	406.7	406.6
7.5°	405.5	405.5	405.3	405.2	405.0	404.6	404.5	404.1	403.8	403.5	403.0
10°	401.9	401.9	401.8	401.5	401.3	401.1	401.1	400.5	400.0	399.3	398.9
12.5°	397.6	397.8	397.5	397.4	397.0	396.8	396.5	395.9	395.4	394.6	393.9
15°	392.7	393.0	393.0	392.4	392.0	391.9	391.5	391.1	390.1	389.3	388.5
17.5°	387.9	388.2	387.9	387.5	387.1	386.5	386.3	385.4	384.2	383.1	381.9
20°	381.2	381.6	381.0	380.4	379.5	379.4	379.0	377.6	375.8	374.2	372.4
22.5°	371.7	371.5	371.0	370.8	369.4	368.6	368.0	366.2	364.3	362.1	359.9
25°	358.7	359.2	358.4	357.2	356.5	355.7	354.3	352.4	350.6	348.3	345.7
27.5°	343.3	343.3	342.2	341.8	340.3	339.2	338.5	336.6	334.3	332.0	329.1
30°	325.7	324.8	324.8	322.9	321.7	321.3	320.6	317.4	315.4	312.9	310.0
32.5°	304.3	304.1	303.6	302.3	300.7	299.3	299.3	297.1	294.4	291.4	289.6
35°	279.6	279.7	279.4	278.1	278.1	276.4	276.2	274.2	272.0	269.7	267.5
37.5°	254.1	254.6	254.1	253.4	253.0	252.8	251.6	250.2	248.6	247.2	245.6
40°	229.4	228.6	228.8	227.5	227.6	227.3	226.8	225.0	224.0	222.7	220.9
42.5°	202.8	203.6	203.9	203.1	202.8	202.2	202.8	202.1	201.0	200.3	198.7
45°	181.5	180.7	181.1	180.9	181.0	179.9	179.5	179.2	178.8	177.6	176.9
47.5°	160.4	160.6	160.4	159.9	159.6	159.6	159.1	158.2	158.2	157.4	156.9
50°	142.1	142.1	142.3	141.6	141.4	140.8	141.0	140.1	139.6	138.9	138.5
52.5°	125.2	125.3	124.8	124.9	124.6	124.6	124.1	123.5	123.0	121.8	121.5
55°	110.8	110.9	110.2	110.5	109.7	109.3	109.0	108.2	108.2	107.0	105.4
57.5°	97.4	97.2	97.1	96.7	96.1	95.7	95.3	94.3	93.9	93.1	91.9
60°	84.9	84.7	84.5	84.3	83.9	83.0	83.0	82.3	80.9	80.1	78.8
62.5°	73.1	73.1	72.9	72.5	72.1	71.7	71.4	70.9	69.5	68.6	67.5
65°	62.8	62.7	62.3	61.6	61.3	61.3	60.3	59.9	58.8	57.9	56.6
67.5°	52.9	52.4	52.1	52.2	51.4	51.4	50.6	49.9	49.0	47.3	46.3
70°	43.3	43.1	42.8	42.5	42.4	41.8	41.4	40.6	39.6	38.4	36.9
72.5°	34.7	34.7	34.3	34.0	33.6	33.0	32.8	32.1	31.0	29.6	28.5
75°	26.5	26.5	26.5	25.9	25.6	25.4	24.5	24.1	22.9	22.1	20.7
77.5°	19.5	19.2	18.8	18.6	18.4	18.1	17.7	17.0	15.9	14.9	14.1
80°	12.3	12.8	12.3	12.3	11.7	11.4	11.2	10.4	10.0	9.2	8.5
82.5°	6.9	7.0	6.7	6.6	6.2	6.0	6.0	5.5	5.2	4.7	4.3
85°	2.5	2.6	2.5	2.5	2.2	2.3	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°	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9
2.5°	408.3	408.1	408.1	407.9	407.8	407.8	407.8	407.6	407.4	407.4	407.2
5°	406.3	406.0	405.6	405.3	405.2	405.0	404.9	404.8	404.2	404.1	403.7
7.5°	402.6	402.3	401.6	401.3	400.9	400.8	400.2	400.0	399.4	398.9	398.6
10°	398.2	397.5	397.0	396.3	396.0	395.6	394.9	394.1	393.7	393.0	392.4
12.5°	393.3	392.4	391.3	390.5	390.2	389.5	388.5	387.8	386.8	385.7	384.8
15°	387.1	386.1	385.2	383.7	383.2	382.4	381.3	380.0	378.6	377.5	376.4
17.5°	380.4	378.9	377.3	375.7	374.5	374.1	372.3	370.4	369.1	367.2	366.0
20°	370.9	368.8	366.4	364.7	363.6	362.4	360.3	358.3	356.8	355.1	353.4
22.5°	357.9	356.0	353.1	350.6	349.8	348.0	346.2	344.3	342.4	340.6	338.4
25°	342.5	340.5	337.6	335.1	333.7	332.9	329.5	327.6	325.7	324.1	322.6
27.5°	326.8	323.0	321.1	317.3	316.1	315.8	312.6	310.6	308.5	306.5	304.5
30°	307.3	304.4	301.5	298.8	297.1	296.2	293.8	291.2	289.9	288.5	286.6
32.5°	287.1	284.5	281.0	278.3	277.1	275.7	273.7	271.9	269.8	268.3	267.9
35°	265.6	262.7	259.7	257.8	257.5	255.9	253.8	252.3	250.8	248.5	248.0
37.5°	242.6	240.9	238.9	236.1	234.9	234.9	232.8	231.7	229.8	229.7	228.6
40°	219.9	219.3	216.1	215.3	215.0	213.1	212.5	210.6	209.2	209.1	207.5
42.5°	197.6	195.8	195.3	193.9	192.6	192.4	191.1	190.3	189.8	188.9	188.1
45°	175.4	175.0	173.6	172.6	172.2	171.7	171.3	169.6	169.3	168.7	168.2
47.5°	156.2	155.1	153.8	152.7	152.6	151.8	150.8	150.8	149.3	149.2	148.9
50°	137.1	136.3	135.6	134.1	134.4	133.3	133.1	131.9	131.2	130.7	131.4
52.5°	120.4	118.7	118.5	117.2	116.8	117.0	115.5	115.0	114.8	114.2	113.9
55°	104.5	103.7	102.6	101.7	101.1	100.4	99.8	99.8	98.3	98.5	97.8
57.5°	90.5	89.8	88.4	87.2	86.9	86.1	85.4	84.7	84.6	83.6	83.0
60°	78.0	76.8	75.0	74.5	73.6	72.9	72.3	71.4	71.0	70.3	69.1
62.5°	66.4	64.3	63.6	62.5	61.6	61.2	60.1	59.1	58.4	57.5	56.5
65°	55.3	53.7	52.5	51.3	51.1	50.0	49.1	48.3	46.9	46.1	44.3
67.5°	45.1	43.7	42.4	41.1	40.2	39.9	38.4	37.4	36.5	34.8	33.3
70°	35.8	34.4	33.3	31.8	31.4	30.3	29.2	28.2	26.6	25.1	23.9
72.5°	27.3	25.8	24.5	23.4	22.8	21.8	20.7	19.6	18.0	16.5	15.4
75°	19.5	18.4	17.1	16.0	15.5	14.9	13.7	12.5	11.4	9.9	8.9
77.5°	13.2	12.1	11.0	10.0	9.3	8.9	8.1	7.1	6.2	5.3	4.7
80°	7.7	7.0	6.2	5.3	5.2	4.8	4.1	3.6	3.0	2.6	2.1
82.5°	3.7	3.3	2.7	2.3	2.1	1.9	1.6	1.4	1.1	1.0	1.0
85°	1.1	1.0	0.8	0.7	0.5	0.5	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°	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9
2.5°	406.8	406.7	406.6	406.4	406.1	406.1	405.7	405.5	405.5	405.2	405.0
5°	403.3	402.9	402.7	402.4	402.2	402.0	401.5	401.3	401.1	400.8	400.8
7.5°	398.2	397.6	397.1	396.8	396.7	396.3	396.0	395.9	395.4	395.2	394.6
10°	391.5	391.1	390.4	390.1	389.8	389.5	388.9	388.5	388.3	388.0	387.8
12.5°	383.7	383.1	382.4	381.9	381.6	381.2	380.5	380.1	380.1	379.5	379.5
15°	375.3	374.5	373.2	372.7	372.5	371.7	371.2	370.6	369.9	369.7	369.7
17.5°	364.6	363.2	362.1	362.1	361.6	360.8	359.9	359.5	359.1	358.6	358.3
20°	352.0	351.0	349.8	349.8	348.6	348.3	347.5	347.3	346.4	346.5	346.1
22.5°	336.8	336.2	335.5	335.0	334.3	333.5	333.1	333.2	332.8	332.6	332.5
25°	321.4	319.9	319.1	318.8	318.5	317.8	317.6	317.4	317.4	317.0	317.2
27.5°	303.7	302.6	301.5	301.9	301.4	301.0	300.7	300.3	300.6	300.4	300.6
30°	285.6	284.2	283.6	283.8	283.7	282.6	283.1	283.0	283.1	283.1	283.4
32.5°	266.6	265.6	265.5	265.6	264.4	264.5	264.0	264.8	264.9	265.7	265.0
35°	247.2	246.7	245.7	245.6	245.7	245.6	245.6	246.1	246.0	246.8	246.5
37.5°	227.3	227.1	226.1	226.4	225.8	226.8	227.1	226.8	227.8	227.5	227.3
40°	207.9	207.5	206.9	208.0	207.3	206.8	207.7	206.9	207.2	208.0	208.0
42.5°	188.1	187.4	187.4	187.4	187.3	187.3	187.7	188.1	187.9	188.0	189.1
45°	168.2	168.1	167.7	168.0	167.8	168.5	168.5	168.8	169.3	169.9	169.6
47.5°	149.0	148.8	149.2	148.9	149.0	148.6	148.9	149.7	150.4	149.5	150.4
50°	131.1	130.5	130.4	130.8	130.7	130.5	130.8	130.8	130.5	130.5	131.5
52.5°	113.9	113.4	113.0	113.7	113.3	113.4	112.8	112.8	113.1	112.8	112.4
55°	97.9	97.5	96.9	97.2	96.5	96.4	95.8	95.8	95.4	95.2	94.3
57.5°	82.5	82.3	81.0	80.9	81.0	80.1	79.1	78.7	77.6	77.3	77.2
60°	69.0	67.5	66.8	66.0	65.4	65.0	63.9	63.2	61.6	60.6	60.5
62.5°	54.8	54.2	53.3	52.1	51.8	50.5	49.4	47.6	46.8	45.5	44.3
65°	43.5	41.7	40.4	39.8	38.7	37.4	36.2	34.3	33.3	31.8	30.6
67.5°	31.8	30.3	28.7	28.1	27.1	25.6	24.4	22.8	21.9	20.6	20.2
70°	21.8	20.4	19.2	18.4	17.7	16.2	14.9	14.4	13.6	13.3	13.3
72.5°	14.0	12.8	11.4	11.0	10.4	9.6	8.8	8.5	8.8	8.6	8.6
75°	7.8	7.1	6.2	5.8	5.8	5.5	5.3	5.3	5.3	5.3	5.3
77.5°	4.0	3.6	3.3	3.2	3.2	3.2	3.3	3.3	3.3	3.4	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P684606

CATALOG NUMBER: LX6C08D010 EX6C089030 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	407.9	407.9	407.9	407.9	407.9	407.9	407.9	407.9
2.5°	404.9	404.6	404.6	404.5	404.5	404.5	404.5	404.6
5°	400.5	400.4	400.4	400.1	400.1	400.1	400.1	400.1
7.5°	394.6	394.3	394.5	394.2	394.2	394.3	394.2	394.1
10°	387.4	387.2	387.4	387.4	387.1	386.9	387.1	387.2
12.5°	379.1	379.0	378.7	378.9	378.9	378.7	378.6	378.3
15°	369.5	369.4	369.3	369.1	369.0	369.1	369.0	368.7
17.5°	358.3	358.3	358.2	358.0	357.9	357.6	357.7	358.2
20°	346.2	346.1	345.8	345.9	345.4	345.1	345.3	345.7
22.5°	332.4	332.0	332.2	331.8	331.8	332.0	331.8	331.5
25°	317.3	316.7	317.0	317.2	317.2	317.0	316.9	317.0
27.5°	300.6	301.0	301.0	300.7	301.1	300.6	300.8	301.0
30°	283.4	283.0	282.9	283.4	284.2	283.6	283.6	283.7
32.5°	265.7	265.2	265.2	265.5	265.3	265.3	265.9	265.2
35°	246.8	247.1	246.0	246.7	246.9	246.7	246.8	246.8
37.5°	227.8	227.5	227.5	227.5	227.9	227.9	228.2	228.0
40°	209.0	208.4	208.3	208.6	208.0	208.4	208.4	208.0
42.5°	188.7	188.8	189.5	188.8	188.9	188.8	188.5	188.4
45°	169.9	170.3	170.0	169.9	170.0	169.5	169.6	170.0
47.5°	150.0	150.8	150.0	150.6	150.4	150.1	149.9	149.3
50°	131.4	131.6	131.5	131.4	131.2	131.1	130.4	130.0
52.5°	112.3	112.3	112.3	112.3	110.9	111.6	111.3	110.5
55°	93.7	94.1	93.5	93.5	92.6	92.6	92.3	92.4
57.5°	75.7	75.3	74.9	74.9	73.9	73.5	73.1	72.5
60°	59.0	58.5	58.0	57.3	56.4	56.4	56.1	55.0
62.5°	43.2	42.5	42.1	41.5	40.7	40.2	39.8	40.0
65°	29.6	28.9	28.4	28.4	28.4	28.1	28.0	28.0
67.5°	19.5	19.9	19.6	19.9	19.9	19.6	19.5	19.7
70°	13.4	13.4	13.3	13.3	13.3	13.3	13.2	13.3
72.5°	8.6	8.6	8.6	8.8	8.6	8.6	8.8	8.8
75°	5.5	5.5	5.5	5.6	5.5	5.5	5.6	5.5
77.5°	3.3	3.4	3.4	3.4	3.4	3.3	3.4	3.4
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)