

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: P683913

Luminaire Tested: **LX6C10D010 EX6C109040 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: P683913  
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 EX6C109040 6LBLWWH  
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

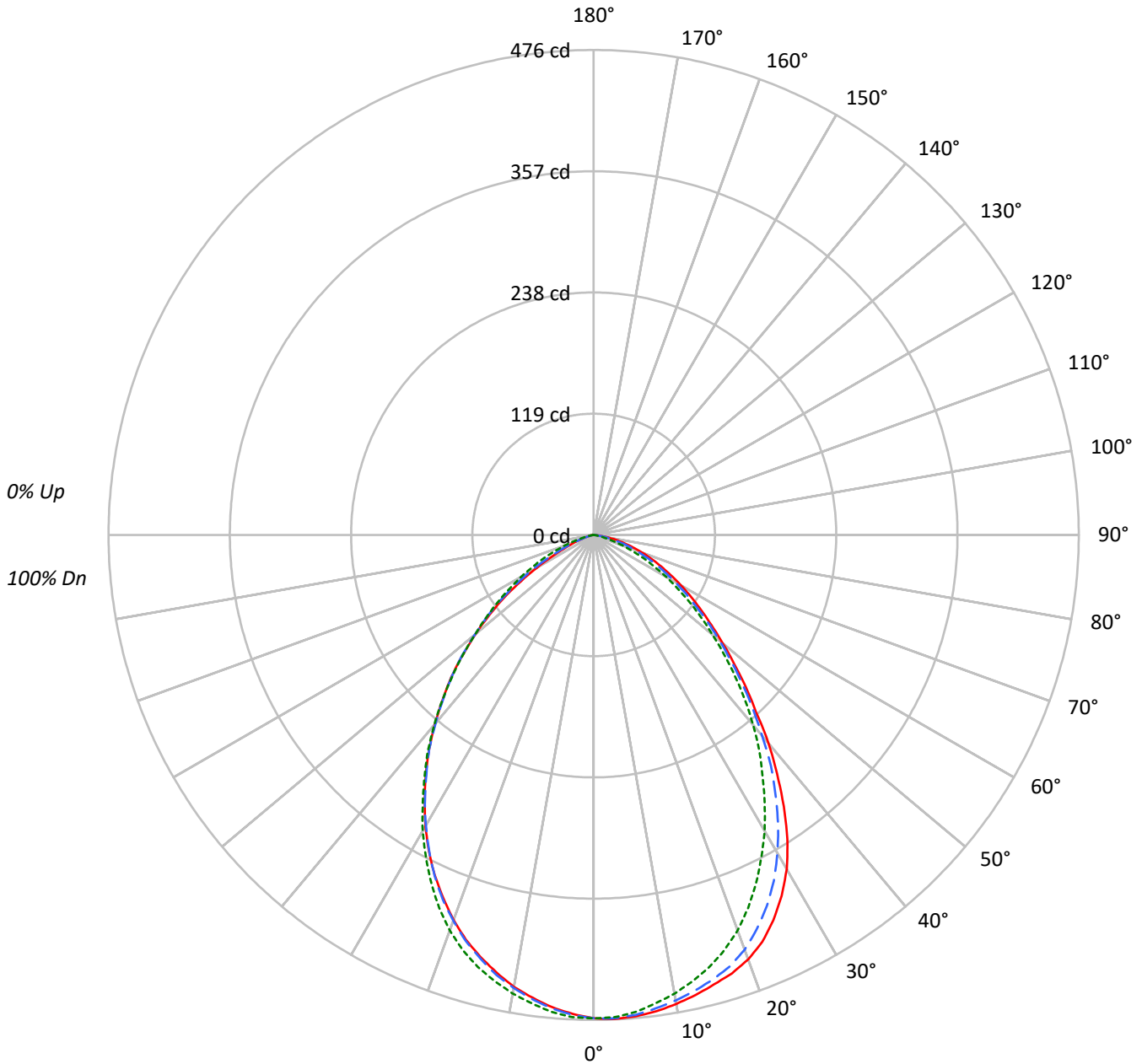
Lumens per Lamp: N/A  
Luminaire Lumens: 863.0 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
Input Voltage (V):  
Input Current (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

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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	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°	26007	26007	26007
5°	26101	25864	25611
10°	26018	25445	25072
15°	25920	24915	24336
20°	25861	24094	23452
25°	25235	22804	22302
30°	23978	21237	20889
35°	21763	19341	19214
40°	19093	17404	17311
45°	16366	15211	15335
50°	14089	12963	12895
55°	12320	10943	10274
60°	10822	8969	7017
65°	9469	6953	4216
70°	8078	4680	2484
75°	6524	2436	1356
80°	4546	947	758
85°	1824	314	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	5.2
10°-20°	124.1	14.4
20°-30°	176.7	20.5
30°-40°	185.9	21.5
40°-50°	155.0	18.0
50°-60°	104.7	12.1
60°-70°	53.1	6.1
70°-80°	17.1	2.0
80°-90°	2.0	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°	345.3	40.0
0°-40°	531.2	61.6
0°-60°	790.8	91.6
0°-90°	863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	474	474	474	474	474	
5°	474	473	470	466	465	45
15°	457	452	439	430	429	129
25°	417	402	377	369	369	191
35°	325	311	289	286	287	202
45°	211	206	196	197	198	163
55°	129	123	114	111	108	116
65°	73	66	54	39	32	73
75°	31	24	12	6	6	33
85°	3	2	0	1	1	5
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°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	475.6	475.6	475.6	475.6	475.6	475.6	475.4	475.4	475.1	475.1	474.9
5°	474.3	474.4	474.4	474.3	474.3	474.0	474.0	473.8	473.3	473.0	472.9
7.5°	471.6	471.6	471.4	471.3	471.1	470.6	470.5	470.0	469.7	469.3	468.7
10°	467.4	467.4	467.3	466.9	466.8	466.5	466.5	465.8	465.2	464.4	463.9
12.5°	462.5	462.6	462.3	462.2	461.7	461.5	461.2	460.4	459.9	459.0	458.2
15°	456.7	457.1	457.1	456.4	455.9	455.8	455.3	454.8	453.7	452.8	451.8
17.5°	451.2	451.5	451.2	450.7	450.2	449.6	449.2	448.3	446.9	445.6	444.1
20°	443.3	443.8	443.2	442.4	441.4	441.3	440.8	439.2	437.1	435.2	433.1
22.5°	432.3	432.0	431.5	431.2	429.6	428.7	428.0	426.0	423.7	421.2	418.6
25°	417.2	417.8	416.9	415.4	414.6	413.7	412.1	409.9	407.8	405.1	402.0
27.5°	399.3	399.3	398.1	397.6	395.8	394.5	393.7	391.5	388.8	386.1	382.7
30°	378.8	377.8	377.8	375.6	374.1	373.7	372.9	369.2	366.8	363.9	360.6
32.5°	353.9	353.7	353.1	351.6	349.7	348.1	348.1	345.6	342.4	338.9	336.8
35°	325.2	325.3	325.0	323.4	323.4	321.5	321.2	319.0	316.4	313.7	311.1
37.5°	295.5	296.1	295.5	294.7	294.2	294.1	292.6	291.0	289.1	287.5	285.6
40°	266.8	265.8	266.2	264.6	264.7	264.4	263.8	261.7	260.6	259.0	256.9
42.5°	235.9	236.8	237.1	236.2	235.9	235.2	235.9	235.1	233.8	233.0	231.1
45°	211.1	210.2	210.7	210.4	210.5	209.2	208.8	208.4	208.0	206.5	205.7
47.5°	186.6	186.7	186.6	186.0	185.6	185.6	185.0	184.0	184.0	183.1	182.4
50°	165.2	165.2	165.5	164.7	164.4	163.8	163.9	163.0	162.3	161.6	161.1
52.5°	145.6	145.8	145.1	145.3	145.0	145.0	144.3	143.7	143.1	141.6	141.3
55°	128.9	129.0	128.2	128.5	127.6	127.1	126.8	125.8	125.8	124.4	122.6
57.5°	113.2	113.1	112.9	112.4	111.8	111.3	110.8	109.7	109.2	108.3	106.8
60°	98.7	98.6	98.2	98.1	97.6	96.5	96.5	95.7	94.1	93.1	91.7
62.5°	85.0	85.0	84.8	84.4	83.9	83.4	83.1	82.4	80.9	79.7	78.5
65°	73.0	72.9	72.4	71.6	71.3	71.3	70.2	69.7	68.4	67.3	65.9
67.5°	61.6	60.9	60.6	60.8	59.8	59.8	58.8	58.0	56.9	55.0	53.9
70°	50.4	50.1	49.8	49.4	49.3	48.6	48.2	47.2	46.1	44.7	42.9
72.5°	40.3	40.3	39.9	39.6	39.1	38.4	38.1	37.3	36.0	34.4	33.2
75°	30.8	30.8	30.8	30.1	29.8	29.5	28.5	28.1	26.6	25.7	24.1
77.5°	22.6	22.3	21.8	21.7	21.4	21.1	20.6	19.8	18.5	17.4	16.4
80°	14.4	14.8	14.4	14.4	13.6	13.2	13.1	12.1	11.6	10.7	9.9
82.5°	8.0	8.1	7.8	7.7	7.2	7.0	7.0	6.4	6.1	5.4	4.9
85°	2.9	3.0	2.9	2.9	2.6	2.7	2.6	2.4	2.1	1.8	1.6
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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	474.9	474.6	474.6	474.4	474.3	474.3	474.3	474.1	473.8	473.8	473.6
5°	472.5	472.2	471.7	471.4	471.3	471.1	470.9	470.8	470.1	470.0	469.5
7.5°	468.2	467.9	467.1	466.8	466.3	466.2	465.5	465.2	464.6	463.9	463.6
10°	463.1	462.3	461.7	460.9	460.6	460.1	459.3	458.3	457.9	457.1	456.4
12.5°	457.4	456.4	455.1	454.2	453.9	453.1	451.8	451.0	449.9	448.6	447.5
15°	450.2	449.1	448.0	446.2	445.7	444.8	443.5	441.9	440.3	439.0	437.8
17.5°	442.4	440.6	438.9	437.0	435.5	435.1	433.0	430.7	429.3	427.1	425.6
20°	431.4	429.0	426.1	424.2	422.9	421.5	419.1	416.7	415.0	413.0	411.0
22.5°	416.2	414.0	410.7	407.8	406.8	404.8	402.7	400.4	398.2	396.1	393.6
25°	398.4	396.0	392.6	389.8	388.2	387.2	383.2	381.0	378.8	377.0	375.3
27.5°	380.0	375.7	373.5	369.0	367.6	367.3	363.6	361.2	358.8	356.4	354.2
30°	357.4	354.0	350.7	347.5	345.6	344.5	341.8	338.7	337.1	335.5	333.3
32.5°	333.9	330.9	326.8	323.7	322.3	320.7	318.3	316.2	313.9	312.1	311.6
35°	308.9	305.6	302.0	299.8	299.5	297.6	295.2	293.4	291.7	289.0	288.5
37.5°	282.1	280.2	277.8	274.6	273.2	273.2	270.8	269.5	267.3	267.1	265.8
40°	255.8	255.0	251.3	250.4	250.1	247.8	247.2	245.0	243.4	243.2	241.3
42.5°	229.8	227.7	227.1	225.5	224.1	223.7	222.3	221.4	220.7	219.8	218.8
45°	204.0	203.5	201.9	200.8	200.3	199.7	199.2	197.3	197.0	196.2	195.7
47.5°	181.6	180.4	178.9	177.7	177.5	176.5	175.4	175.4	173.7	173.5	173.2
50°	159.5	158.5	157.7	156.0	156.3	155.0	154.9	153.4	152.6	152.0	152.8
52.5°	140.0	138.1	137.8	136.4	135.9	136.0	134.3	133.8	133.5	132.8	132.5
55°	121.5	120.6	119.3	118.3	117.5	116.7	116.1	116.1	114.3	114.5	113.7
57.5°	105.3	104.5	102.9	101.4	101.1	100.2	99.4	98.6	98.4	97.3	96.5
60°	90.7	89.3	87.2	86.6	85.6	84.8	84.0	83.1	82.6	81.8	80.4
62.5°	77.2	74.8	74.0	72.7	71.6	71.1	69.9	68.7	67.9	66.8	65.7
65°	64.3	62.5	61.1	59.6	59.5	58.2	57.1	56.1	54.5	53.6	51.5
67.5°	52.5	50.9	49.3	47.8	46.7	46.4	44.7	43.5	42.4	40.5	38.8
70°	41.6	40.0	38.8	37.0	36.5	35.2	34.0	32.9	30.9	29.2	27.7
72.5°	31.7	30.0	28.5	27.3	26.5	25.4	24.1	22.8	20.9	19.1	17.9
75°	22.6	21.4	19.9	18.7	18.0	17.4	15.9	14.5	13.2	11.5	10.4
77.5°	15.3	14.0	12.8	11.6	10.8	10.4	9.4	8.3	7.2	6.2	5.4
80°	8.9	8.1	7.2	6.2	6.1	5.6	4.8	4.1	3.5	3.0	2.4
82.5°	4.3	3.8	3.2	2.7	2.4	2.2	1.9	1.6	1.3	1.1	1.1
85°	1.3	1.1	1.0	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	473.2	473.0	472.9	472.7	472.4	472.4	471.9	471.6	471.6	471.3	471.1
5°	469.0	468.5	468.4	468.1	467.7	467.6	466.9	466.8	466.5	466.2	466.2
7.5°	463.1	462.5	461.8	461.5	461.4	460.9	460.6	460.4	459.9	459.6	459.0
10°	455.3	454.8	454.0	453.7	453.4	453.1	452.3	451.8	451.6	451.3	451.0
12.5°	446.2	445.6	444.8	444.1	443.8	443.3	442.5	442.1	442.1	441.4	441.4
15°	436.5	435.5	434.1	433.5	433.3	432.3	431.7	431.1	430.3	430.0	430.0
17.5°	424.1	422.5	421.2	421.2	420.5	419.6	418.6	418.1	417.7	417.0	416.7
20°	409.4	408.3	406.8	406.8	405.4	405.1	404.1	404.0	402.8	403.0	402.5
22.5°	391.7	391.0	390.2	389.6	388.8	387.8	387.4	387.5	387.1	386.9	386.7
25°	373.8	372.1	371.1	370.8	370.5	369.7	369.3	369.2	369.2	368.7	368.9
27.5°	353.2	352.0	350.7	351.2	350.5	350.1	349.7	349.3	349.6	349.4	349.6
30°	332.2	330.6	329.8	330.1	330.0	328.7	329.3	329.2	329.3	329.3	329.6
32.5°	310.0	308.9	308.7	308.9	307.5	307.6	307.0	308.0	308.1	309.1	308.3
35°	287.5	286.9	285.8	285.6	285.8	285.6	285.6	286.3	286.1	287.1	286.7
37.5°	264.4	264.1	263.0	263.3	262.7	263.8	264.1	263.8	264.9	264.6	264.4
40°	241.8	241.3	240.7	241.9	241.1	240.5	241.6	240.7	241.0	241.9	241.9
42.5°	218.8	218.0	218.0	218.0	217.8	217.8	218.3	218.8	218.5	218.6	219.9
45°	195.7	195.5	195.0	195.4	195.2	196.0	196.0	196.3	197.0	197.6	197.3
47.5°	173.4	173.0	173.5	173.2	173.4	172.9	173.2	174.1	174.9	173.8	174.9
50°	152.5	151.8	151.7	152.1	152.0	151.8	152.1	152.1	151.8	151.8	152.9
52.5°	132.5	131.9	131.4	132.2	131.7	131.9	131.2	131.2	131.6	131.2	130.8
55°	113.9	113.4	112.8	113.1	112.3	112.1	111.5	111.5	111.0	110.7	109.7
57.5°	96.0	95.7	94.3	94.1	94.3	93.1	92.0	91.5	90.3	89.9	89.8
60°	80.2	78.5	77.7	76.7	76.1	75.6	74.3	73.5	71.6	70.5	70.3
62.5°	63.8	63.0	62.0	60.6	60.3	58.7	57.4	55.3	54.4	52.9	51.5
65°	50.6	48.5	47.0	46.2	45.0	43.5	42.1	39.9	38.8	37.0	35.6
67.5°	37.0	35.2	33.3	32.7	31.6	29.8	28.4	26.5	25.5	23.9	23.4
70°	25.4	23.8	22.3	21.4	20.6	18.8	17.4	16.7	15.8	15.5	15.5
72.5°	16.3	14.8	13.2	12.8	12.1	11.2	10.2	9.9	10.2	10.0	10.0
75°	9.1	8.3	7.2	6.7	6.7	6.4	6.2	6.2	6.2	6.2	6.2
77.5°	4.6	4.1	3.8	3.7	3.7	3.7	3.8	3.8	3.8	4.0	3.8
80°	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.4	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3
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: P683913

CATALOG NUMBER: LX6C10D010 EX6C109040 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	474.4	474.4	474.4	474.4	474.4	474.4	474.4	474.4
2.5°	470.9	470.6	470.6	470.5	470.5	470.5	470.5	470.6
5°	465.8	465.7	465.7	465.4	465.4	465.4	465.4	465.4
7.5°	459.0	458.7	458.8	458.5	458.5	458.7	458.5	458.3
10°	450.5	450.4	450.5	450.5	450.2	450.0	450.2	450.4
12.5°	441.0	440.8	440.5	440.6	440.6	440.5	440.3	440.0
15°	429.8	429.6	429.5	429.3	429.2	429.3	429.2	428.8
17.5°	416.7	416.7	416.6	416.4	416.2	415.9	416.1	416.6
20°	402.7	402.5	402.2	402.4	401.7	401.4	401.6	402.0
22.5°	386.6	386.1	386.4	385.9	385.9	386.1	385.9	385.6
25°	369.0	368.4	368.7	368.9	368.9	368.7	368.6	368.7
27.5°	349.6	350.1	350.1	349.7	350.2	349.6	349.9	350.1
30°	329.6	329.2	329.0	329.6	330.6	329.8	329.8	330.0
32.5°	309.1	308.4	308.4	308.7	308.6	308.6	309.2	308.4
35°	287.1	287.4	286.1	286.9	287.2	286.9	287.1	287.1
37.5°	264.9	264.6	264.6	264.6	265.1	265.1	265.4	265.2
40°	243.0	242.4	242.2	242.6	241.9	242.4	242.4	241.9
42.5°	219.4	219.6	220.4	219.6	219.8	219.6	219.3	219.1
45°	197.6	198.1	197.8	197.6	197.8	197.1	197.3	197.8
47.5°	174.5	175.4	174.5	175.1	174.9	174.6	174.3	173.7
50°	152.8	153.1	152.9	152.8	152.6	152.5	151.7	151.2
52.5°	130.6	130.6	130.6	130.6	129.0	129.8	129.5	128.5
55°	108.9	109.4	108.8	108.8	107.6	107.6	107.3	107.5
57.5°	88.0	87.6	87.1	87.1	86.0	85.5	85.0	84.4
60°	68.6	68.1	67.5	66.7	65.5	65.5	65.2	64.0
62.5°	50.2	49.4	49.0	48.3	47.4	46.7	46.2	46.6
65°	34.4	33.6	33.0	33.0	33.0	32.7	32.5	32.5
67.5°	22.6	23.1	22.8	23.1	23.1	22.8	22.6	23.0
70°	15.6	15.6	15.5	15.5	15.5	15.5	15.3	15.5
72.5°	10.0	10.0	10.0	10.2	10.0	10.0	10.2	10.2
75°	6.4	6.4	6.4	6.5	6.4	6.4	6.5	6.4
77.5°	3.8	4.0	4.0	4.0	4.0	3.8	4.0	4.0
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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



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















(END OF REPORT)