

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: P683898

Luminaire Tested: **LX6C10D010 EX6C109035 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: P683898  
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 EX6C109035 6LBLWWH  
Description: 6 INCH 1000 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**

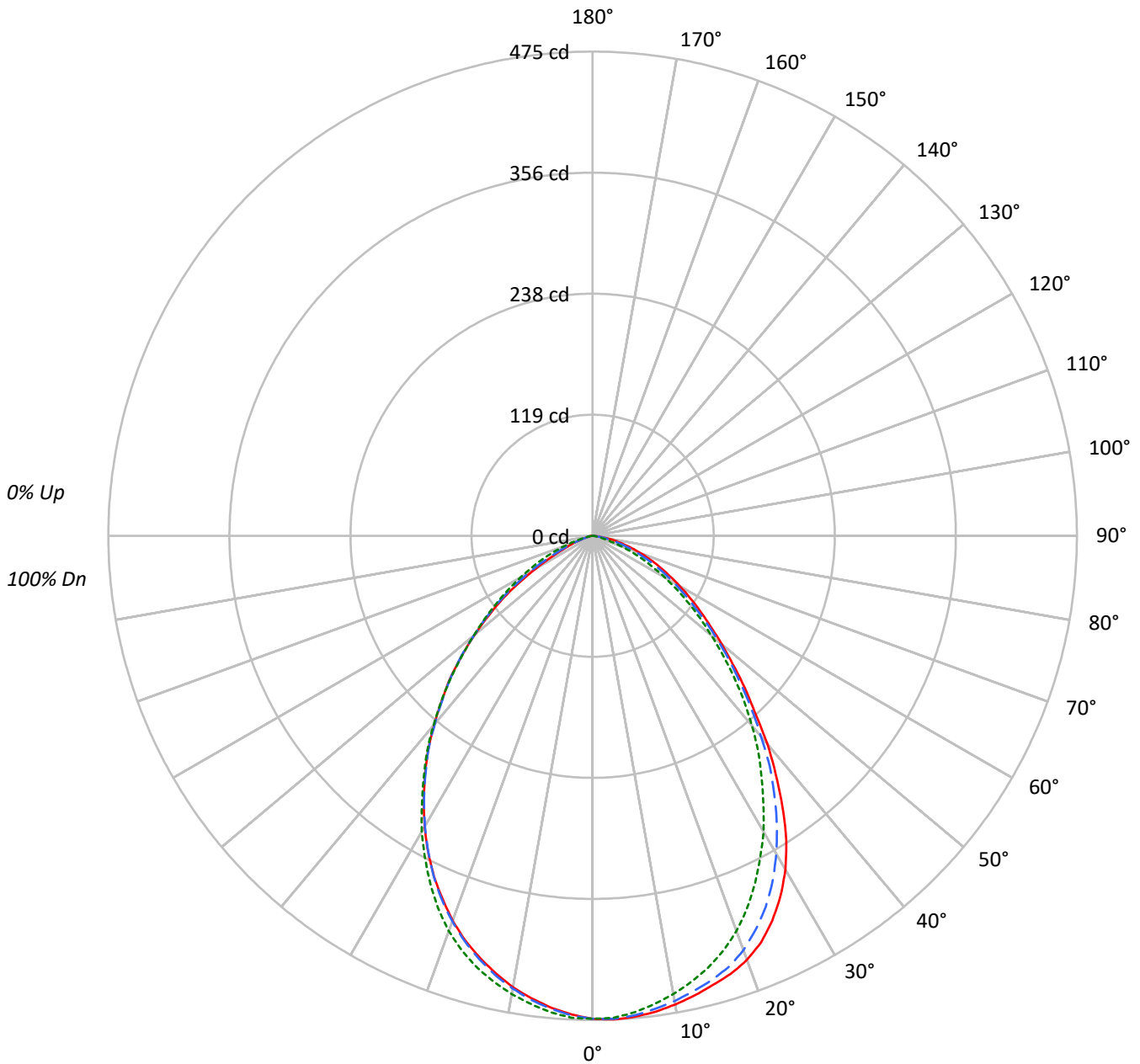
Lumens per Lamp: N/A  
Luminaire Lumens: 862.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.8  
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°	25979	25979	25979
5°	26068	25831	25578
10°	25990	25411	25039
15°	25891	24887	24308
20°	25832	24070	23429
25°	25205	22780	22277
30°	23947	21218	20864
35°	21737	19314	19187
40°	19071	17383	17290
45°	16351	15188	15312
50°	14072	12946	12878
55°	12301	10934	10265
60°	10811	8958	7006
65°	9469	6940	4216
70°	8062	4680	2484
75°	6503	2436	1356
80°	4514	947	758
85°	1824	314	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	5.2
10°-20°	124.0	14.4
20°-30°	176.4	20.5
30°-40°	185.7	21.5
40°-50°	154.8	18.0
50°-60°	104.6	12.1
60°-70°	53.0	6.2
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°	344.9	40.0
0°-40°	530.6	61.6
0°-60°	789.9	91.6
0°-90°	862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	474	474	474	474	474	
5°	474	472	469	466	465	45
15°	456	451	438	430	428	129
25°	417	402	377	369	368	191
35°	325	311	289	286	287	202
45°	211	206	196	197	198	163
55°	129	122	114	111	107	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°	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9
2.5°	475.0	475.0	475.0	475.0	475.0	475.0	474.9	474.9	474.5	474.5	474.4
5°	473.7	473.9	473.9	473.7	473.7	473.4	473.4	473.3	472.8	472.5	472.3
7.5°	471.0	471.0	470.9	470.7	470.6	470.1	469.9	469.4	469.1	468.8	468.2
10°	466.9	466.9	466.7	466.4	466.2	465.9	465.9	465.3	464.7	463.9	463.4
12.5°	461.9	462.1	461.8	461.6	461.2	461.0	460.7	459.9	459.4	458.4	457.6
15°	456.2	456.5	456.5	455.9	455.4	455.3	454.8	454.3	453.2	452.2	451.3
17.5°	450.6	451.0	450.6	450.2	449.7	449.0	448.7	447.8	446.3	445.1	443.6
20°	442.8	443.3	442.7	441.9	440.9	440.8	440.3	438.7	436.6	434.7	432.6
22.5°	431.8	431.5	431.0	430.7	429.1	428.2	427.5	425.5	423.2	420.7	418.1
25°	416.7	417.3	416.4	415.0	414.2	413.2	411.6	409.4	407.3	404.6	401.6
27.5°	398.9	398.9	397.6	397.1	395.4	394.1	393.3	391.1	388.4	385.6	382.3
30°	378.3	377.4	377.4	375.1	373.7	373.2	372.4	368.8	366.4	363.5	360.2
32.5°	353.5	353.3	352.7	351.2	349.3	347.7	347.7	345.2	342.0	338.5	336.4
35°	324.8	325.0	324.6	323.0	323.0	321.1	320.8	318.6	316.0	313.3	310.8
37.5°	295.2	295.8	295.2	294.4	293.9	293.7	292.3	290.7	288.8	287.2	285.3
40°	266.5	265.5	265.9	264.3	264.4	264.1	263.5	261.4	260.3	258.7	256.6
42.5°	235.6	236.5	236.9	235.9	235.6	235.0	235.6	234.8	233.5	232.7	230.8
45°	210.9	209.9	210.4	210.1	210.3	209.0	208.5	208.2	207.7	206.3	205.5
47.5°	186.4	186.5	186.4	185.7	185.4	185.4	184.8	183.8	183.8	182.9	182.2
50°	165.0	165.0	165.3	164.5	164.2	163.6	163.8	162.8	162.2	161.4	160.9
52.5°	145.4	145.6	145.0	145.1	144.8	144.8	144.2	143.5	142.9	141.5	141.1
55°	128.7	128.9	128.1	128.4	127.4	127.0	126.6	125.7	125.7	124.2	122.5
57.5°	113.1	112.9	112.8	112.3	111.7	111.2	110.7	109.6	109.1	108.2	106.7
60°	98.6	98.4	98.1	98.0	97.5	96.4	96.4	95.6	94.0	93.0	91.6
62.5°	84.9	84.9	84.7	84.3	83.8	83.3	83.0	82.4	80.8	79.6	78.4
65°	73.0	72.8	72.3	71.5	71.2	71.2	70.1	69.6	68.3	67.2	65.8
67.5°	61.5	60.8	60.5	60.7	59.7	59.7	58.8	58.0	56.9	55.0	53.8
70°	50.3	50.0	49.7	49.4	49.2	48.6	48.1	47.2	46.0	44.6	42.8
72.5°	40.3	40.3	39.8	39.5	39.0	38.4	38.1	37.3	36.0	34.4	33.1
75°	30.7	30.7	30.7	30.1	29.8	29.5	28.5	28.0	26.6	25.6	24.1
77.5°	22.6	22.3	21.8	21.7	21.3	21.0	20.5	19.8	18.5	17.4	16.4
80°	14.3	14.8	14.3	14.3	13.5	13.2	13.1	12.1	11.6	10.7	9.9
82.5°	8.0	8.1	7.8	7.6	7.2	7.0	7.0	6.4	6.1	5.4	4.9
85°	2.9	3.0	2.9	2.9	2.5	2.7	2.5	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°	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9
2.5°	474.4	474.1	474.1	473.9	473.7	473.7	473.7	473.6	473.3	473.3	473.1
5°	472.0	471.7	471.2	470.9	470.7	470.6	470.4	470.2	469.6	469.4	469.0
7.5°	467.7	467.4	466.6	466.2	465.8	465.6	465.0	464.7	464.0	463.4	463.1
10°	462.6	461.8	461.2	460.4	460.0	459.6	458.8	457.8	457.3	456.5	455.9
12.5°	456.9	455.9	454.6	453.7	453.3	452.5	451.3	450.5	449.4	448.1	447.0
15°	449.7	448.6	447.5	445.7	445.2	444.3	443.0	441.4	439.8	438.5	437.3
17.5°	441.9	440.1	438.4	436.5	435.0	434.5	432.5	430.2	428.8	426.6	425.2
20°	430.9	428.5	425.6	423.7	422.4	421.0	418.6	416.2	414.5	412.6	410.5
22.5°	415.8	413.5	410.2	407.3	406.4	404.3	402.2	400.0	397.8	395.7	393.1
25°	397.9	395.5	392.2	389.3	387.7	386.8	382.8	380.5	378.3	376.6	374.8
27.5°	379.6	375.3	373.1	368.6	367.2	366.9	363.2	360.8	358.4	356.0	353.8
30°	357.0	353.6	350.3	347.1	345.2	344.1	341.4	338.3	336.7	335.2	332.9
32.5°	333.6	330.5	326.4	323.4	321.9	320.3	317.9	315.9	313.5	311.7	311.3
35°	308.5	305.2	301.7	299.5	299.2	297.2	294.9	293.1	291.3	288.6	288.2
37.5°	281.8	279.9	277.5	274.3	272.9	272.9	270.5	269.2	267.0	266.8	265.5
40°	255.5	254.7	251.0	250.1	249.8	247.5	246.9	244.7	243.1	242.9	241.0
42.5°	229.5	227.5	226.8	225.2	223.8	223.5	222.1	221.1	220.5	219.5	218.5
45°	203.7	203.3	201.7	200.5	200.1	199.4	199.0	197.0	196.7	195.9	195.5
47.5°	181.4	180.2	178.7	177.5	177.3	176.3	175.2	175.2	173.5	173.3	173.0
50°	159.3	158.3	157.5	155.8	156.1	154.8	154.7	153.2	152.4	151.8	152.6
52.5°	139.9	137.9	137.6	136.2	135.7	135.9	134.1	133.6	133.3	132.7	132.4
55°	121.4	120.4	119.2	118.2	117.4	116.6	116.0	116.0	114.2	114.4	113.6
57.5°	105.1	104.3	102.7	101.3	101.0	100.0	99.2	98.4	98.3	97.2	96.4
60°	90.6	89.2	87.1	86.5	85.5	84.7	83.9	83.0	82.5	81.7	80.3
62.5°	77.1	74.7	73.9	72.6	71.5	71.0	69.8	68.7	67.9	66.7	65.6
65°	64.2	62.4	61.0	59.6	59.4	58.1	57.0	56.1	54.5	53.5	51.5
67.5°	52.4	50.8	49.2	47.8	46.7	46.4	44.6	43.5	42.4	40.5	38.7
70°	41.6	40.0	38.7	37.0	36.5	35.2	33.9	32.8	30.9	29.2	27.7
72.5°	31.7	29.9	28.5	27.2	26.4	25.3	24.1	22.8	20.9	19.1	17.8
75°	22.6	21.3	19.9	18.6	18.0	17.4	15.9	14.5	13.2	11.5	10.4
77.5°	15.3	14.0	12.7	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°	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9
2.5°	472.6	472.5	472.3	472.1	471.8	471.8	471.3	471.0	471.0	470.7	470.6
5°	468.5	468.0	467.8	467.5	467.2	467.0	466.4	466.2	465.9	465.6	465.6
7.5°	462.6	461.9	461.3	461.0	460.8	460.4	460.0	459.9	459.4	459.1	458.4
10°	454.8	454.3	453.5	453.2	452.9	452.5	451.8	451.3	451.1	450.8	450.5
12.5°	445.7	445.1	444.3	443.6	443.3	442.8	442.0	441.6	441.6	440.9	440.9
15°	436.0	435.0	433.6	433.0	432.8	431.8	431.2	430.6	429.8	429.5	429.5
17.5°	423.6	422.0	420.7	420.7	420.1	419.1	418.1	417.7	417.2	416.5	416.2
20°	408.9	407.8	406.4	406.4	404.9	404.6	403.6	403.5	402.4	402.5	402.1
22.5°	391.2	390.6	389.8	389.2	388.4	387.4	386.9	387.1	386.6	386.4	386.3
25°	373.4	371.6	370.7	370.4	370.0	369.2	368.9	368.8	368.8	368.3	368.4
27.5°	352.8	351.6	350.3	350.8	350.1	349.6	349.3	348.9	349.2	349.0	349.2
30°	331.8	330.2	329.4	329.7	329.6	328.3	328.9	328.8	328.9	328.9	329.3
32.5°	309.7	308.5	308.4	308.5	307.1	307.3	306.6	307.6	307.8	308.7	307.9
35°	287.2	286.6	285.5	285.3	285.5	285.3	285.3	285.9	285.8	286.7	286.4
37.5°	264.1	263.8	262.7	263.0	262.4	263.5	263.8	263.5	264.6	264.3	264.1
40°	241.5	241.0	240.4	241.6	240.9	240.2	241.3	240.4	240.7	241.6	241.6
42.5°	218.5	217.8	217.8	217.8	217.6	217.6	218.1	218.5	218.2	218.4	219.7
45°	195.5	195.3	194.8	195.1	195.0	195.8	195.8	196.1	196.7	197.4	197.0
47.5°	173.2	172.8	173.3	173.0	173.2	172.7	173.0	173.9	174.7	173.6	174.7
50°	152.3	151.6	151.5	152.0	151.8	151.6	152.0	152.0	151.6	151.6	152.8
52.5°	132.4	131.7	131.3	132.1	131.6	131.7	131.1	131.1	131.4	131.1	130.6
55°	113.7	113.3	112.6	112.9	112.1	112.0	111.3	111.3	110.9	110.5	109.6
57.5°	95.9	95.6	94.1	94.0	94.1	93.0	91.9	91.4	90.2	89.8	89.7
60°	80.1	78.4	77.6	76.6	76.0	75.5	74.2	73.4	71.5	70.4	70.2
62.5°	63.7	62.9	62.0	60.5	60.2	58.6	57.3	55.3	54.3	52.9	51.5
65°	50.5	48.4	47.0	46.2	44.9	43.5	42.1	39.8	38.7	37.0	35.5
67.5°	37.0	35.2	33.3	32.7	31.5	29.8	28.4	26.4	25.5	23.9	23.4
70°	25.3	23.7	22.3	21.3	20.5	18.8	17.4	16.7	15.8	15.5	15.5
72.5°	16.2	14.8	13.2	12.7	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: P683898

CATALOG NUMBER: LX6C10D010 EX6C109035 6LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	473.9	473.9	473.9	473.9	473.9	473.9	473.9	473.9
2.5°	470.4	470.1	470.1	469.9	469.9	469.9	469.9	470.1
5°	465.3	465.1	465.1	464.8	464.8	464.8	464.8	464.8
7.5°	458.4	458.1	458.3	458.0	458.0	458.1	458.0	457.8
10°	450.0	449.8	450.0	450.0	449.7	449.5	449.7	449.8
12.5°	440.4	440.3	440.0	440.1	440.1	440.0	439.8	439.5
15°	429.3	429.1	429.0	428.8	428.7	428.8	428.7	428.3
17.5°	416.2	416.2	416.1	415.9	415.8	415.4	415.6	416.1
20°	402.2	402.1	401.7	401.9	401.3	400.9	401.1	401.6
22.5°	386.1	385.6	386.0	385.5	385.5	385.6	385.5	385.2
25°	368.6	368.0	368.3	368.4	368.4	368.3	368.1	368.3
27.5°	349.2	349.6	349.6	349.3	349.8	349.2	349.5	349.6
30°	329.3	328.8	328.6	329.3	330.2	329.4	329.4	329.6
32.5°	308.7	308.1	308.1	308.4	308.2	308.2	308.9	308.1
35°	286.7	287.0	285.8	286.6	286.9	286.6	286.7	286.7
37.5°	264.6	264.3	264.3	264.3	264.7	264.7	265.1	264.9
40°	242.8	242.1	242.0	242.3	241.6	242.1	242.1	241.6
42.5°	219.2	219.3	220.1	219.3	219.5	219.3	219.0	218.9
45°	197.4	197.8	197.5	197.4	197.5	196.9	197.0	197.5
47.5°	174.3	175.2	174.3	174.9	174.7	174.4	174.1	173.5
50°	152.6	152.9	152.8	152.6	152.4	152.3	151.5	151.0
52.5°	130.5	130.5	130.5	130.5	128.9	129.7	129.3	128.4
55°	108.8	109.3	108.6	108.6	107.5	107.5	107.2	107.4
57.5°	87.9	87.5	87.0	87.0	85.9	85.4	84.9	84.3
60°	68.5	68.0	67.4	66.6	65.5	65.5	65.2	63.9
62.5°	50.2	49.4	48.9	48.3	47.3	46.7	46.2	46.5
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	22.9
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)