

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: CORELITE

Report Number: P395038

Luminaire Tested: **I3-FL-20L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-20L940-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1586.3 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

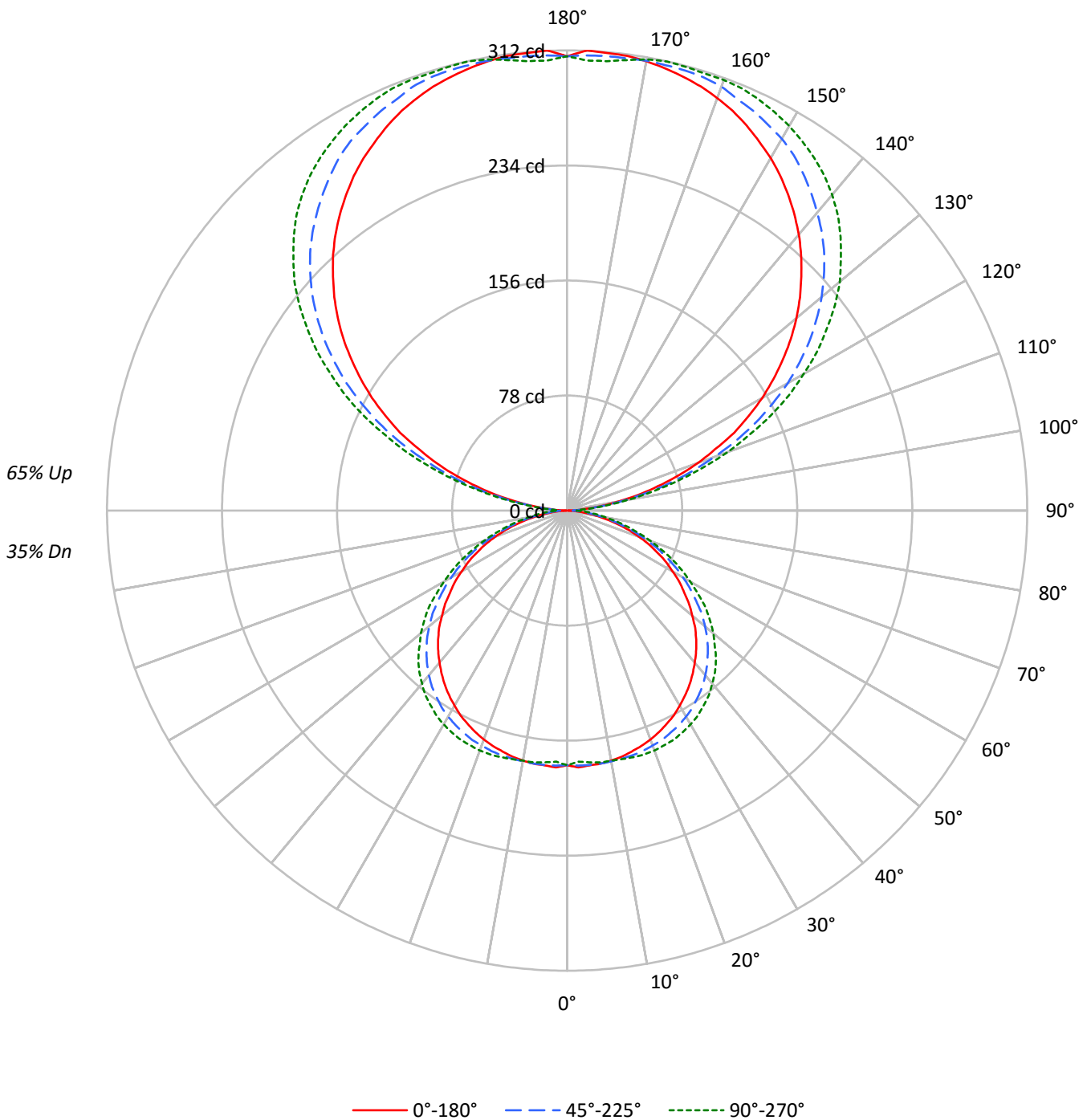
Input Watts (W): 12.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	949	949	949
5°	953	933	918
10°	954	920	908
15°	951	912	904
20°	952	904	903
25°	949	896	899
30°	946	888	891
35°	942	873	878
40°	932	855	858
45°	922	828	833
50°	901	792	792
55°	875	742	744
60°	846	684	672
65°	804	613	598
70°	747	522	504
75°	651	415	401
80°	507	295	293
85°	272	169	193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	1.0
10°-20°	48.4	3.1
20°-30°	76.3	4.8
30°-40°	95.9	6.0
40°-50°	103.1	6.5
50°-60°	94.9	6.0
60°-70°	72.7	4.6
70°-80°	41.4	2.6
80°-90°	12.9	0.8
90°-100°	17.3	1.1
100°-110°	75.2	4.7
110°-120°	137.6	8.7
120°-130°	177.4	11.2
130°-140°	188.8	11.9
140°-150°	173.7	10.9
150°-160°	137.6	8.7
160°-170°	87.1	5.5
170°-180°	29.5	1.9
0°-30°	141.2	8.9
0°-40°	237.1	14.9
0°-60°	435.1	27.4
0°-90°	562.2	35.4
90°-120°	230.1	14.5
90°-150°	769.9	48.5
90°-180°	1024.0	64.6
0°-180°	1586.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	173	173	173	173	173	
5°	173	172	173	172	171	17
15°	169	168	172	173	173	48
25°	160	160	166	170	171	74
35°	144	146	154	160	161	90
45°	124	127	135	141	143	95
55°	97	101	107	112	115	87
65°	68	70	74	77	79	67
75°	36	36	39	41	42	38
85°	6	8	11	14	15	8
90°	0	1	4	6	6	1
95°	12	11	12	14	15	15
105°	64	67	72	76	77	68
115°	125	131	141	148	152	123
125°	179	186	201	211	215	160
135°	224	232	246	257	262	173
145°	261	267	279	287	292	164
155°	288	292	299	305	308	133
165°	304	304	309	311	311	86
175°	311	309	309	308	306	30
180°	308	308	308	308	308	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	174.3	173.9	173.4	172.6	172.6	172.2	172.2	172.2	172.2	172.6	173.1
5°	173.4	173.4	173.1	172.2	172.2	171.7	171.7	172.2	171.7	172.2	173.1
7.5°	173.1	173.1	172.6	171.7	171.7	171.7	171.7	171.7	171.7	172.2	173.1
10°	172.2	172.2	171.3	170.9	170.9	170.9	170.9	171.3	171.3	171.7	172.6
12.5°	170.9	170.4	170.0	169.5	169.5	169.5	170.0	170.4	170.4	171.3	172.2
15°	169.1	169.1	168.7	168.3	168.3	168.3	168.7	169.1	169.5	170.4	171.7
17.5°	167.4	167.4	167.0	167.0	167.0	167.0	167.4	167.9	168.7	169.5	170.9
20°	165.2	165.2	164.9	164.9	164.9	165.2	165.2	166.1	167.0	168.3	169.5
22.5°	162.6	162.6	162.6	162.2	162.6	163.1	163.5	164.4	165.2	166.5	168.3
25°	159.6	159.6	159.6	159.6	160.1	160.1	160.9	161.8	162.6	164.4	166.1
27.5°	156.6	156.6	156.6	156.2	157.0	157.4	157.9	159.2	160.1	162.2	164.0
30°	152.7	152.7	152.7	153.1	153.6	154.0	154.9	156.2	157.0	159.2	161.3
32.5°	148.8	148.8	148.8	148.8	150.1	150.6	151.0	152.2	154.0	156.2	158.3
35°	144.5	144.5	144.5	144.9	145.8	146.2	147.1	148.3	150.1	152.2	154.4
37.5°	139.7	140.1	140.1	140.6	141.5	142.3	143.2	144.5	146.2	148.3	150.6
40°	134.6	134.9	134.9	135.4	136.2	137.1	138.0	139.7	141.5	143.6	145.8
42.5°	129.4	129.8	129.8	130.6	131.5	132.4	133.2	134.9	136.7	138.9	140.6
45°	123.7	124.1	124.1	125.0	126.4	126.7	128.0	129.8	131.5	133.2	134.9
47.5°	117.7	118.1	118.1	118.9	120.3	121.1	122.0	123.7	125.0	127.2	128.9
50°	110.7	111.2	111.6	112.5	114.2	115.1	115.9	117.3	118.9	120.3	122.0
52.5°	104.3	104.3	104.7	105.5	106.8	107.7	108.2	109.4	111.6	113.4	115.1
55°	96.9	97.3	97.7	98.6	100.0	100.8	101.2	102.5	103.8	105.1	106.8
57.5°	90.4	90.4	90.9	91.7	93.0	93.4	93.9	94.7	96.4	97.7	99.1
60°	82.6	83.1	83.5	84.3	85.2	86.1	86.1	87.4	88.7	90.0	90.9
62.5°	75.7	75.7	76.1	77.0	77.4	78.3	78.3	79.6	80.4	81.8	82.6
65°	67.5	67.9	68.3	68.8	69.7	69.7	70.1	70.9	71.8	72.7	74.0
67.5°	60.1	60.1	60.6	61.0	61.5	61.5	61.9	62.7	63.6	64.5	65.3
70°	51.9	52.4	52.4	52.4	52.8	53.2	53.6	54.0	54.9	55.4	56.2
72.5°	43.7	43.7	44.2	44.2	44.6	44.9	45.4	45.8	46.3	47.2	47.6
75°	35.5	35.5	35.9	35.9	36.4	36.4	36.4	37.2	37.6	38.5	38.9
77.5°	27.3	27.7	27.7	27.7	28.1	28.5	28.5	29.0	29.8	30.3	30.7
80°	19.9	19.9	19.9	19.9	20.3	20.8	21.2	21.2	22.1	23.0	23.4
82.5°	12.5	12.5	13.0	13.4	13.4	13.9	14.3	14.7	15.5	16.0	16.4
85°	6.4	6.4	6.9	7.3	7.8	8.2	8.2	8.7	9.5	10.4	10.8
87.5°	2.1	2.6	2.6	3.0	3.4	3.9	4.3	4.8	5.7	6.4	6.9
90°	0.4	0.4	0.4	0.9	1.3	1.3	1.8	2.1	2.6	3.0	3.9
92.5°	3.9	3.9	3.4	3.9	3.9	3.9	3.9	4.3	4.8	4.8	5.7
95°	11.7	11.2	11.2	11.2	11.2	11.2	11.2	11.7	12.1	12.1	12.5
97.5°	22.5	22.5	22.1	22.1	22.5	22.5	22.5	23.0	23.8	23.4	24.2
100°	35.1	35.1	34.6	35.1	35.5	35.9	36.7	36.7	37.6	37.6	38.9
102.5°	49.3	49.3	48.9	49.7	50.2	51.0	51.0	51.9	53.2	53.2	54.9
105°	63.6	64.0	64.0	64.9	65.8	66.6	66.6	67.9	69.7	69.7	71.8
107.5°	79.2	79.6	79.6	80.4	81.3	82.2	82.6	84.3	86.1	86.5	89.1
110°	94.3	94.7	95.2	96.1	96.9	98.2	99.1	100.8	103.0	103.8	106.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	108.6	110.3	110.7	112.1	113.4	114.6	115.5	117.7	120.3	121.6	124.1
115°	125.0	125.9	126.4	127.6	129.4	130.6	131.5	133.7	136.2	138.0	141.0
117.5°	138.5	140.6	141.0	142.3	144.0	145.3	146.2	148.8	151.9	154.0	157.0
120°	152.7	154.4	156.2	157.0	158.3	160.1	160.9	163.5	167.0	169.1	172.6
122.5°	165.7	167.4	169.1	170.4	172.2	173.1	174.3	177.4	180.8	183.4	186.8
125°	178.6	180.8	182.1	183.4	185.6	186.4	187.7	190.7	194.3	197.3	200.7
127.5°	191.2	192.5	194.7	195.5	197.7	198.6	199.8	203.4	206.8	209.8	213.2
130°	202.9	204.6	206.4	206.8	209.4	210.7	211.9	215.0	218.9	221.9	225.3
132.5°	214.1	215.0	217.1	218.5	220.6	221.9	223.2	225.8	229.7	232.8	236.2
135°	224.5	225.3	228.0	229.2	230.6	231.9	233.6	236.2	240.1	243.1	246.5
137.5°	234.9	235.8	238.3	239.6	240.5	241.9	243.1	245.7	249.6	252.6	255.6
140°	244.4	245.3	247.0	248.7	249.6	250.5	251.7	254.4	257.8	260.8	263.8
142.5°	253.1	254.0	255.6	257.4	258.7	258.7	260.0	262.2	266.0	269.1	271.7
145°	261.3	261.7	263.4	265.2	266.9	266.9	267.4	269.5	272.9	276.4	279.0
147.5°	269.1	269.5	270.8	272.5	273.8	274.3	275.1	276.0	279.5	282.9	285.9
150°	276.0	276.4	277.3	279.0	279.9	280.7	281.6	282.0	284.7	287.7	291.1
152.5°	282.0	282.5	283.4	284.7	285.5	286.4	287.2	288.6	289.8	292.9	295.0
155°	288.1	288.6	289.0	290.2	291.1	291.6	292.0	293.7	295.0	296.8	298.9
157.5°	293.3	293.3	293.7	294.6	295.5	295.5	295.9	297.6	298.9	300.7	301.9
160°	297.6	297.6	298.0	298.9	298.9	299.3	299.8	301.1	301.9	304.1	305.9
162.5°	301.5	301.1	301.5	301.9	301.9	301.9	302.3	303.2	304.5	306.2	308.0
165°	304.5	304.5	304.5	305.0	305.0	304.5	304.5	305.4	306.2	307.5	308.9
167.5°	307.1	307.1	306.7	307.1	306.7	306.7	306.2	306.7	307.1	308.4	309.3
170°	309.3	308.9	308.9	308.9	308.4	308.0	308.0	308.0	308.0	308.9	309.8
172.5°	311.0	310.6	310.2	310.2	309.3	308.9	308.9	308.4	308.4	308.9	309.3
175°	311.4	311.0	310.6	310.6	309.8	309.3	308.9	308.9	308.4	308.9	309.3
177.5°	312.3	311.9	311.0	311.0	310.2	309.3	309.3	308.9	308.4	308.9	308.9
180°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6	172.6
2.5°	173.4	173.4	173.1	172.6	172.6	172.2	171.7	171.3	170.9	170.4
5°	173.4	173.1	172.6	172.6	172.2	172.2	172.2	171.7	171.3	171.3
7.5°	173.4	173.4	173.1	172.6	172.6	172.6	172.6	172.6	172.2	172.2
10°	173.4	173.1	173.1	173.1	172.6	173.1	173.1	172.6	172.6	172.2
12.5°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	173.1	172.6
15°	172.2	172.6	172.6	173.1	173.1	173.1	173.4	173.4	173.1	173.1
17.5°	171.7	172.2	172.6	173.1	173.1	173.1	173.4	173.4	173.4	173.4
20°	170.9	171.3	171.7	172.2	172.2	172.6	172.6	173.1	173.1	173.1
22.5°	169.1	169.5	170.4	170.9	171.3	171.7	172.2	172.2	172.2	172.2
25°	167.4	168.3	168.7	169.5	170.0	170.4	170.9	170.9	170.9	171.3
27.5°	165.2	166.1	167.4	167.9	168.3	168.7	169.1	169.5	169.5	169.5
30°	162.6	164.0	164.9	165.7	166.1	166.5	167.0	167.0	167.4	167.4
32.5°	159.6	160.9	161.8	162.6	163.1	163.5	164.4	164.4	164.9	164.9
35°	155.8	157.0	158.3	159.2	159.6	160.1	160.9	161.3	161.3	161.3
37.5°	151.9	153.1	154.4	155.8	156.2	156.6	157.4	157.4	157.9	157.9
40°	147.1	148.3	149.7	151.0	151.0	151.9	152.2	152.7	153.1	153.1
42.5°	142.3	143.6	144.5	145.8	146.2	146.7	147.1	147.9	147.9	148.3
45°	136.7	138.0	138.9	140.1	140.6	141.0	141.9	142.3	142.8	142.8
47.5°	130.6	131.5	132.4	133.7	134.6	134.9	135.4	135.8	136.2	135.8
50°	123.7	124.6	125.9	127.2	127.6	128.0	128.9	128.9	129.4	129.4
52.5°	116.4	117.7	118.5	119.8	120.3	120.7	121.6	121.6	122.0	122.0
55°	108.2	109.1	109.8	112.1	112.5	112.9	113.7	113.7	114.2	114.6
57.5°	100.4	100.8	102.1	103.0	103.8	103.8	104.3	104.7	105.1	105.1
60°	92.1	92.5	93.4	94.7	94.7	95.2	96.1	96.1	96.4	96.4
62.5°	83.5	84.3	85.2	86.5	86.1	86.5	87.4	87.4	87.8	87.8
65°	74.9	75.2	76.1	77.0	77.4	77.4	77.9	78.3	78.8	78.8
67.5°	65.8	66.6	67.0	68.3	67.9	68.3	68.8	68.8	69.2	69.2
70°	57.1	57.6	58.4	58.8	58.8	59.2	59.7	59.7	59.7	60.1
72.5°	48.5	48.9	49.3	49.7	49.7	50.2	50.6	50.6	51.0	51.0
75°	39.4	40.3	40.7	41.5	41.1	41.5	42.4	42.4	42.4	42.4
77.5°	31.6	32.1	32.8	33.3	33.3	33.3	34.2	33.7	34.2	34.2
80°	23.8	24.2	25.1	25.5	25.5	26.0	26.4	26.4	26.4	26.8
82.5°	16.9	17.7	18.6	19.1	19.1	19.4	19.9	19.9	20.3	20.3
85°	11.7	12.5	13.4	13.4	13.9	14.3	14.7	14.7	14.7	14.7
87.5°	7.8	8.2	8.7	9.1	9.5	9.5	10.0	10.0	10.4	10.4
90°	4.3	4.8	5.2	5.7	5.7	6.1	6.1	6.4	6.4	6.4
92.5°	6.1	6.1	6.4	6.9	6.9	6.9	6.9	7.3	7.3	7.3
95°	13.0	13.4	13.4	14.3	14.3	14.3	14.7	14.7	14.7	14.7
97.5°	25.1	25.1	25.1	26.0	26.0	26.0	26.4	26.4	26.4	26.8
100°	39.4	39.8	39.8	41.1	40.7	41.5	41.5	41.5	41.5	41.9
102.5°	55.4	56.2	56.7	57.9	57.9	57.9	58.8	58.4	58.8	58.8
105°	72.7	73.6	74.0	75.2	76.1	76.1	77.0	76.6	77.0	77.4
107.5°	90.0	91.3	92.1	93.4	94.3	94.7	94.7	95.2	95.6	96.1
110°	107.7	109.1	111.2	112.5	112.9	113.7	114.2	114.6	115.1	115.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	126.4	127.6	129.4	131.0	130.6	131.9	132.8	133.2	133.7	133.2
115°	143.2	144.9	146.7	148.3	148.3	149.2	151.0	151.4	151.4	152.2
117.5°	159.2	161.3	163.1	164.9	165.2	166.1	167.4	168.7	168.7	169.5
120°	174.7	177.4	179.1	180.8	181.7	182.1	183.4	185.2	185.2	185.2
122.5°	189.5	191.6	193.8	195.5	196.4	197.3	198.1	200.3	200.3	201.1
125°	203.4	205.9	208.0	209.8	210.7	211.6	213.2	214.6	215.0	215.0
127.5°	216.2	218.9	221.0	223.2	223.7	224.5	226.2	228.0	228.4	228.9
130°	228.4	231.0	233.2	235.3	236.2	236.6	238.8	240.1	241.0	241.4
132.5°	239.2	241.9	244.0	246.2	247.0	247.9	249.2	251.3	251.7	251.7
135°	249.2	251.7	254.0	256.5	257.0	257.8	259.5	260.8	261.7	262.2
137.5°	258.3	260.8	263.4	265.6	266.5	266.9	268.6	270.4	271.3	271.7
140°	266.5	269.1	271.7	273.4	273.8	275.1	276.4	278.1	279.0	279.5
142.5°	274.3	276.4	278.6	280.7	281.1	282.0	283.4	285.0	285.9	286.4
145°	281.1	283.4	285.0	286.8	287.2	288.1	289.4	290.7	291.6	292.0
147.5°	287.7	289.4	291.1	292.4	292.9	293.7	294.6	295.5	296.3	296.8
150°	293.3	294.1	295.9	296.8	297.2	298.0	298.9	299.8	300.7	301.1
152.5°	297.6	298.9	299.8	301.1	301.5	301.9	302.8	303.7	304.5	304.5
155°	301.1	302.3	303.2	304.5	305.0	305.4	306.2	306.7	307.5	307.5
157.5°	303.7	305.0	305.9	306.7	307.1	307.5	308.0	308.9	309.8	309.8
160°	306.7	307.1	307.5	308.4	308.4	308.9	309.3	309.8	310.6	310.6
162.5°	309.3	309.8	308.9	309.3	308.9	309.3	309.8	310.2	310.6	310.6
165°	310.2	311.0	310.6	311.0	311.0	311.0	311.0	311.4	311.4	311.4
167.5°	310.2	311.0	310.6	310.6	311.0	311.0	311.4	311.9	311.9	311.9
170°	310.2	310.6	310.2	309.8	310.2	310.2	310.2	310.6	310.6	310.6
172.5°	309.8	310.2	309.3	308.9	308.9	308.9	308.4	308.4	308.0	308.0
175°	309.3	309.3	308.4	308.0	308.0	308.0	307.1	306.7	306.2	305.9
177.5°	308.9	308.9	307.5	307.1	307.1	306.7	306.7	305.9	305.9	305.4
180°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0

(END OF REPORT)