

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: P393802

Luminaire Tested: **I3-FL-20L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393802
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-20L830-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

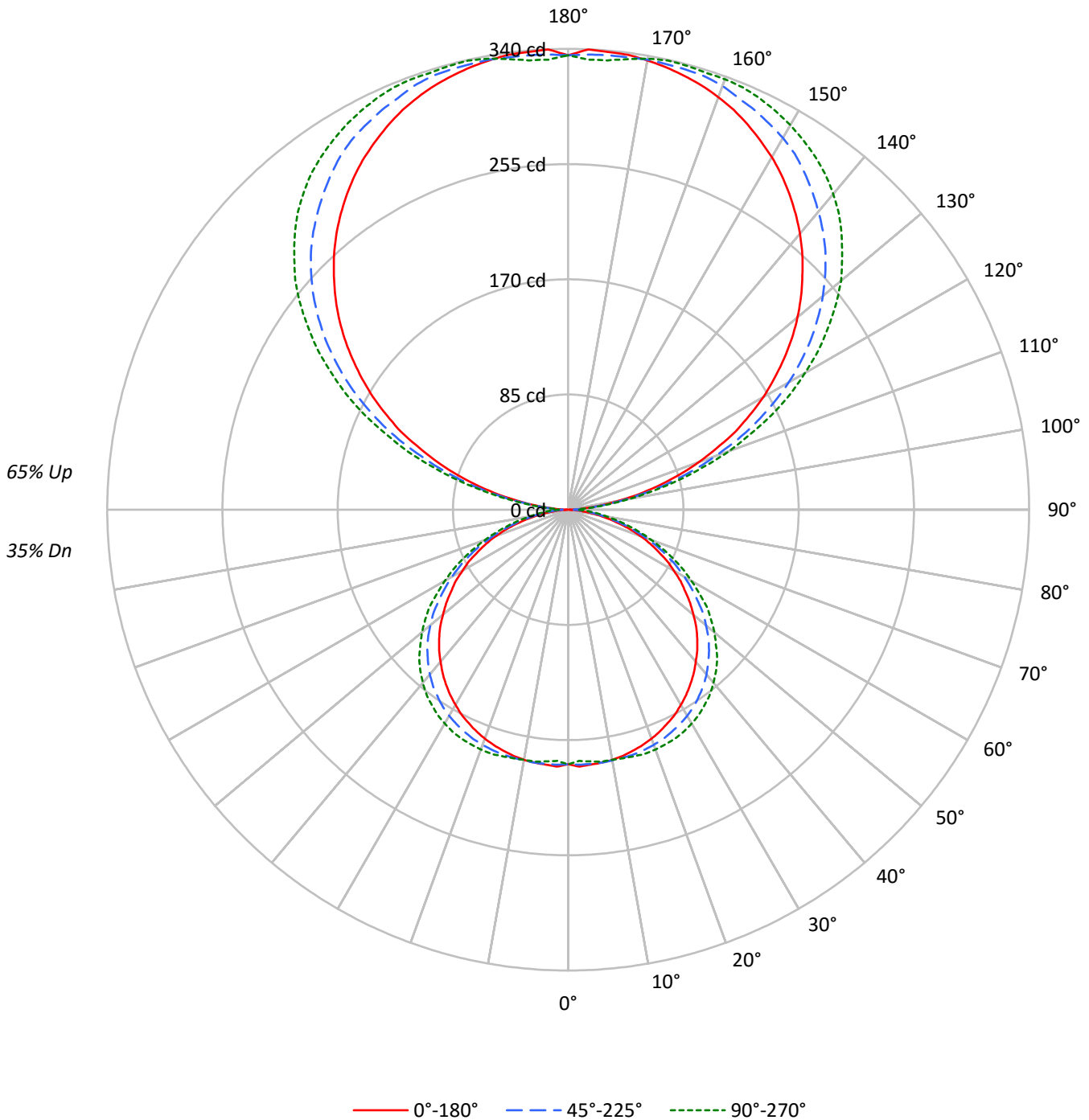
Lumens per Lamp: N/A
Luminaire Lumens: 1726.4 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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°	1032	1032	1032
5°	1038	1015	999
10°	1038	1001	988
15°	1036	993	984
20°	1036	985	982
25°	1033	976	978
30°	1030	966	970
35°	1024	951	955
40°	1014	931	935
45°	1004	902	906
50°	981	862	862
55°	953	808	810
60°	920	744	732
65°	875	667	650
70°	813	568	549
75°	707	452	436
80°	553	321	320
85°	301	184	210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	1.0
10°-20°	52.7	3.1
20°-30°	83.1	4.8
30°-40°	104.4	6.0
40°-50°	112.3	6.5
50°-60°	103.3	6.0
60°-70°	79.1	4.6
70°-80°	45.0	2.6
80°-90°	14.1	0.8
90°-100°	18.8	1.1
100°-110°	81.8	4.7
110°-120°	149.8	8.7
120°-130°	193.1	11.2
130°-140°	205.4	11.9
140°-150°	189.0	10.9
150°-160°	149.7	8.7
160°-170°	94.8	5.5
170°-180°	32.1	1.9
0°-30°	153.7	8.9
0°-40°	258.1	14.9
0°-60°	473.6	27.4
0°-90°	611.8	35.4
90°-120°	250.4	14.5
90°-150°	838.0	48.5
90°-180°	1115.0	64.6
0°-180°	1726.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	188	188	188	188	188	
5°	189	187	188	187	186	18
15°	184	183	187	188	188	52
25°	174	174	181	185	186	80
35°	157	159	168	174	176	98
45°	135	138	147	153	155	104
55°	106	110	116	122	125	95
65°	73	76	80	84	86	73
75°	39	40	42	45	46	41
85°	7	9	12	15	16	9
90°	0	1	4	6	7	1
95°	13	12	14	16	16	16
105°	69	72	78	83	84	74
115°	136	142	154	162	166	133
125°	194	203	218	229	234	174
135°	244	252	268	280	285	189
145°	284	290	304	313	318	178
155°	314	317	325	332	335	145
165°	331	331	336	338	339	94
175°	339	337	337	335	333	32
180°	335	335	335	335	335	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8
2.5°	189.7	189.3	188.8	187.8	187.8	187.4	187.4	187.4	187.4	187.8	188.3
5°	188.8	188.8	188.3	187.4	187.4	186.9	186.9	187.4	186.9	187.4	188.3
7.5°	188.3	188.3	187.8	186.9	186.9	186.9	186.9	186.9	186.9	187.4	188.3
10°	187.4	187.4	186.4	186.0	186.0	186.0	186.0	186.4	186.4	186.9	187.8
12.5°	186.0	185.5	185.0	184.6	184.6	184.6	185.0	185.5	185.5	186.4	187.4
15°	184.1	184.1	183.6	183.1	183.1	183.1	183.6	184.1	184.6	185.5	186.9
17.5°	182.2	182.2	181.7	181.7	181.7	181.7	182.2	182.7	183.6	184.6	186.0
20°	179.8	179.8	179.4	179.4	179.4	179.8	179.8	180.8	181.7	183.1	184.6
22.5°	177.0	177.0	177.0	176.5	177.0	177.5	178.0	178.9	179.8	181.3	183.1
25°	173.7	173.7	173.7	173.7	174.2	174.2	175.1	176.1	177.0	178.9	180.8
27.5°	170.4	170.4	170.4	170.0	170.9	171.4	171.8	173.3	174.2	176.5	178.4
30°	166.2	166.2	166.2	166.7	167.1	167.6	168.5	170.0	170.9	173.3	175.6
32.5°	162.0	162.0	162.0	162.0	163.4	163.8	164.3	165.7	167.6	170.0	172.3
35°	157.2	157.2	157.2	157.7	158.7	159.1	160.1	161.5	163.4	165.7	168.1
37.5°	152.1	152.5	152.5	153.0	153.9	154.9	155.8	157.2	159.1	161.5	163.8
40°	146.4	146.9	146.9	147.4	148.3	149.2	150.2	152.1	153.9	156.3	158.7
42.5°	140.8	141.2	141.2	142.2	143.1	144.1	145.0	146.9	148.8	151.1	153.0
45°	134.6	135.1	135.1	136.1	137.5	137.9	139.4	141.2	143.1	145.0	146.9
47.5°	128.1	128.5	128.5	129.5	130.9	131.8	132.8	134.6	136.1	138.4	140.3
50°	120.5	121.0	121.5	122.4	124.3	125.2	126.2	127.6	129.5	130.9	132.8
52.5°	113.5	113.5	113.9	114.9	116.3	117.2	117.7	119.1	121.5	123.3	125.2
55°	105.5	105.9	106.4	107.3	108.8	109.7	110.2	111.6	113.0	114.4	116.3
57.5°	98.4	98.4	98.9	99.8	101.2	101.7	102.2	103.1	105.0	106.4	107.8
60°	89.9	90.4	90.9	91.8	92.7	93.7	93.7	95.1	96.5	97.9	98.9
62.5°	82.4	82.4	82.9	83.8	84.3	85.2	85.2	86.6	87.6	89.0	89.9
65°	73.4	73.9	74.4	74.9	75.8	75.8	76.3	77.2	78.2	79.1	80.5
67.5°	65.4	65.4	65.9	66.4	66.9	66.9	67.3	68.3	69.2	70.1	71.1
70°	56.5	57.0	57.0	57.0	57.4	57.9	58.4	58.8	59.8	60.3	61.2
72.5°	47.5	47.5	48.0	48.0	48.5	49.0	49.4	49.9	50.4	51.3	51.8
75°	38.6	38.6	39.1	39.1	39.5	39.5	39.5	40.5	41.0	41.9	42.4
77.5°	29.7	30.1	30.1	30.1	30.6	31.1	31.1	31.5	32.5	33.0	33.4
80°	21.7	21.7	21.7	21.7	22.1	22.6	23.1	23.1	24.0	25.0	25.4
82.5°	13.7	13.7	14.1	14.6	14.6	15.1	15.5	16.0	16.9	17.4	17.9
85°	7.1	7.1	7.5	8.0	8.5	8.9	8.9	9.4	10.4	11.3	11.8
87.5°	2.4	2.8	2.8	3.3	3.8	4.2	4.7	5.2	6.1	7.1	7.5
90°	0.5	0.5	0.5	0.9	1.4	1.4	1.9	2.4	2.8	3.3	4.2
92.5°	4.2	4.2	3.8	4.2	4.2	4.2	4.2	4.7	5.2	5.2	6.1
95°	12.7	12.2	12.2	12.2	12.2	12.2	12.2	12.7	13.2	13.2	13.7
97.5°	24.5	24.5	24.0	24.0	24.5	24.5	24.5	25.0	25.9	25.4	26.4
100°	38.1	38.1	37.7	38.1	38.6	39.1	40.0	40.0	41.0	41.0	42.4
102.5°	53.7	53.7	53.2	54.1	54.6	55.6	55.6	56.5	57.9	57.9	59.8
105°	69.2	69.7	69.7	70.6	71.6	72.5	72.5	73.9	75.8	75.8	78.2
107.5°	86.2	86.6	86.6	87.6	88.5	89.5	89.9	91.8	93.7	94.2	97.0
110°	102.6	103.1	103.6	104.5	105.5	106.9	107.8	109.7	112.0	113.0	115.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	118.2	120.1	120.5	121.9	123.3	124.8	125.7	128.1	130.9	132.3	135.1
115°	136.1	137.0	137.5	138.9	140.8	142.2	143.1	145.5	148.3	150.2	153.5
117.5°	150.7	153.0	153.5	154.9	156.8	158.2	159.1	162.0	165.2	167.6	170.9
120°	166.2	168.1	170.0	170.9	172.3	174.2	175.1	178.0	181.7	184.1	187.8
122.5°	180.3	182.2	184.1	185.5	187.4	188.3	189.7	193.0	196.8	199.6	203.4
125°	194.4	196.8	198.2	199.6	202.0	202.9	204.3	207.6	211.4	214.7	218.4
127.5°	208.1	209.5	211.9	212.8	215.2	216.1	217.5	221.3	225.0	228.3	232.1
130°	220.8	222.7	224.6	225.0	227.9	229.3	230.7	234.0	238.2	241.5	245.3
132.5°	233.0	234.0	236.3	237.7	240.1	241.5	242.9	245.8	250.0	253.3	257.1
135°	244.3	245.3	248.1	249.5	250.9	252.3	254.2	257.1	261.3	264.6	268.4
137.5°	255.6	256.6	259.4	260.8	261.8	263.2	264.6	267.4	271.6	274.9	278.2
140°	266.0	266.9	268.8	270.7	271.6	272.6	274.0	276.8	280.6	283.9	287.2
142.5°	275.4	276.4	278.2	280.1	281.5	281.5	282.9	285.3	289.5	292.8	295.7
145°	284.4	284.8	286.7	288.6	290.5	290.5	290.9	293.3	297.1	300.8	303.7
147.5°	292.8	293.3	294.7	296.6	298.0	298.5	299.4	300.4	304.1	307.9	311.2
150°	300.4	300.8	301.8	303.7	304.6	305.5	306.5	307.0	309.8	313.1	316.8
152.5°	307.0	307.4	308.4	309.8	310.7	311.7	312.6	314.0	315.4	318.7	321.1
155°	313.5	314.0	314.5	315.9	316.8	317.3	317.8	319.7	321.1	323.0	325.3
157.5°	319.2	319.2	319.7	320.6	321.6	321.6	322.0	323.9	325.3	327.2	328.6
160°	323.9	323.9	324.4	325.3	325.3	325.8	326.3	327.7	328.6	331.0	332.8
162.5°	328.1	327.7	328.1	328.6	328.6	328.6	329.1	330.0	331.4	333.3	335.2
165°	331.4	331.4	331.4	331.9	331.9	331.4	331.4	332.4	333.3	334.7	336.1
167.5°	334.3	334.3	333.8	334.3	333.8	333.8	333.3	333.8	334.3	335.7	336.6
170°	336.6	336.1	336.1	336.1	335.7	335.2	335.2	335.2	335.2	336.1	337.1
172.5°	338.5	338.0	337.6	337.6	336.6	336.1	336.1	335.7	335.7	336.1	336.6
175°	339.0	338.5	338.0	338.0	337.1	336.6	336.1	336.1	335.7	336.1	336.6
177.5°	339.9	339.4	338.5	338.5	337.6	336.6	336.6	336.1	335.7	336.1	336.1
180°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8
2.5°	188.8	188.8	188.3	187.8	187.8	187.4	186.9	186.4	186.0	185.5
5°	188.8	188.3	187.8	187.8	187.4	187.4	187.4	186.9	186.4	186.4
7.5°	188.8	188.8	188.3	187.8	187.8	187.8	187.8	187.8	187.4	187.4
10°	188.8	188.3	188.3	188.3	187.8	188.3	188.3	187.8	187.8	187.4
12.5°	188.3	188.3	188.3	188.3	188.3	188.3	188.3	188.3	188.3	187.8
15°	187.4	187.8	187.8	188.3	188.3	188.3	188.8	188.8	188.3	188.3
17.5°	186.9	187.4	187.8	188.3	188.3	188.3	188.8	188.8	188.8	188.8
20°	186.0	186.4	186.9	187.4	187.4	187.8	187.8	188.3	188.3	188.3
22.5°	184.1	184.6	185.5	186.0	186.4	186.9	187.4	187.4	187.4	187.4
25°	182.2	183.1	183.6	184.6	185.0	185.5	186.0	186.0	186.0	186.4
27.5°	179.8	180.8	182.2	182.7	183.1	183.6	184.1	184.6	184.6	184.6
30°	177.0	178.4	179.4	180.3	180.8	181.3	181.7	181.7	182.2	182.2
32.5°	173.7	175.1	176.1	177.0	177.5	178.0	178.9	178.9	179.4	179.4
35°	169.5	170.9	172.3	173.3	173.7	174.2	175.1	175.6	175.6	175.6
37.5°	165.2	166.7	168.1	169.5	170.0	170.4	171.4	171.4	171.8	171.8
40°	160.1	161.5	162.9	164.3	164.3	165.2	165.7	166.2	166.7	166.7
42.5°	154.9	156.3	157.2	158.7	159.1	159.6	160.1	161.0	161.0	161.5
45°	148.8	150.2	151.1	152.5	153.0	153.5	154.4	154.9	155.4	155.4
47.5°	142.2	143.1	144.1	145.5	146.4	146.9	147.4	147.8	148.3	147.8
50°	134.6	135.6	137.0	138.4	138.9	139.4	140.3	140.3	140.8	140.8
52.5°	126.6	128.1	129.0	130.4	130.9	131.4	132.3	132.3	132.8	132.8
55°	117.7	118.6	119.6	121.9	122.4	122.9	123.8	123.8	124.3	124.8
57.5°	109.2	109.7	111.1	112.0	113.0	113.0	113.5	113.9	114.4	114.4
60°	100.3	100.7	101.7	103.1	103.1	103.6	104.5	104.5	105.0	105.0
62.5°	90.9	91.8	92.7	94.2	93.7	94.2	95.1	95.1	95.6	95.6
65°	81.4	81.9	82.9	83.8	84.3	84.3	84.7	85.2	85.7	85.7
67.5°	71.6	72.5	73.0	74.4	73.9	74.4	74.9	74.9	75.3	75.3
70°	62.1	62.6	63.6	64.0	64.0	64.5	65.0	65.0	65.0	65.4
72.5°	52.7	53.2	53.7	54.1	54.1	54.6	55.1	55.1	55.6	55.6
75°	42.8	43.8	44.3	45.2	44.7	45.2	46.1	46.1	46.1	46.1
77.5°	34.4	34.8	35.8	36.3	36.3	36.3	37.2	36.7	37.2	37.2
80°	25.9	26.4	27.3	27.8	27.8	28.2	28.7	28.7	28.7	29.2
82.5°	18.4	19.3	20.2	20.7	20.7	21.2	21.7	21.7	22.1	22.1
85°	12.7	13.7	14.6	14.6	15.1	15.5	16.0	16.0	16.0	16.0
87.5°	8.5	8.9	9.4	9.9	10.4	10.4	10.8	10.8	11.3	11.3
90°	4.7	5.2	5.6	6.1	6.1	6.6	6.6	7.1	7.1	7.1
92.5°	6.6	6.6	7.1	7.5	7.5	7.5	7.5	8.0	8.0	8.0
95°	14.1	14.6	14.6	15.5	15.5	15.5	16.0	16.0	16.0	16.0
97.5°	27.3	27.3	27.3	28.2	28.2	28.2	28.7	28.7	28.7	29.2
100°	42.8	43.3	43.3	44.7	44.3	45.2	45.2	45.2	45.2	45.7
102.5°	60.3	61.2	61.7	63.1	63.1	63.1	64.0	63.6	64.0	64.0
105°	79.1	80.0	80.5	81.9	82.9	82.9	83.8	83.3	83.8	84.3
107.5°	97.9	99.3	100.3	101.7	102.6	103.1	103.1	103.6	104.0	104.5
110°	117.2	118.6	121.0	122.4	122.9	123.8	124.3	124.8	125.2	126.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	137.5	138.9	140.8	142.6	142.2	143.6	144.5	145.0	145.5	145.0
115°	155.8	157.7	159.6	161.5	161.5	162.4	164.3	164.8	164.8	165.7
117.5°	173.3	175.6	177.5	179.4	179.8	180.8	182.2	183.6	183.6	184.6
120°	190.2	193.0	194.9	196.8	197.7	198.2	199.6	201.5	201.5	201.5
122.5°	206.2	208.6	210.9	212.8	213.7	214.7	215.6	218.0	218.0	218.9
125°	221.3	224.1	226.5	228.3	229.3	230.2	232.1	233.5	234.0	234.0
127.5°	235.4	238.2	240.6	242.9	243.4	244.3	246.2	248.1	248.6	249.0
130°	248.6	251.4	253.8	256.1	257.1	257.5	259.9	261.3	262.2	262.7
132.5°	260.3	263.2	265.5	267.9	268.8	269.8	271.2	273.5	274.0	274.0
135°	271.2	274.0	276.4	279.2	279.7	280.6	282.5	283.9	284.8	285.3
137.5°	281.1	283.9	286.7	289.1	290.0	290.5	292.4	294.2	295.2	295.7
140°	290.0	292.8	295.7	297.5	298.0	299.4	300.8	302.7	303.7	304.1
142.5°	298.5	300.8	303.2	305.5	306.0	307.0	308.4	310.3	311.2	311.7
145°	306.0	308.4	310.3	312.1	312.6	313.5	315.0	316.4	317.3	317.8
147.5°	313.1	315.0	316.8	318.3	318.7	319.7	320.6	321.6	322.5	323.0
150°	319.2	320.1	322.0	323.0	323.4	324.4	325.3	326.3	327.2	327.7
152.5°	323.9	325.3	326.3	327.7	328.1	328.6	329.6	330.5	331.4	331.4
155°	327.7	329.1	330.0	331.4	331.9	332.4	333.3	333.8	334.7	334.7
157.5°	330.5	331.9	332.8	333.8	334.3	334.7	335.2	336.1	337.1	337.1
160°	333.8	334.3	334.7	335.7	335.7	336.1	336.6	337.1	338.0	338.0
162.5°	336.6	337.1	336.1	336.6	336.1	336.6	337.1	337.6	338.0	338.0
165°	337.6	338.5	338.0	338.5	338.5	338.5	338.5	339.0	339.0	339.0
167.5°	337.6	338.5	338.0	338.0	338.5	338.5	339.0	339.4	339.4	339.4
170°	337.6	338.0	337.6	337.1	337.6	337.6	337.6	338.0	338.0	338.0
172.5°	337.1	337.6	336.6	336.1	336.1	336.1	335.7	335.7	335.2	335.2
175°	336.6	336.6	335.7	335.2	335.2	335.2	334.3	333.8	333.3	332.8
177.5°	336.1	336.1	334.7	334.3	334.3	333.8	333.8	332.8	332.8	332.4
180°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2

(END OF REPORT)