

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: P395020

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

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-CL-20L940-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

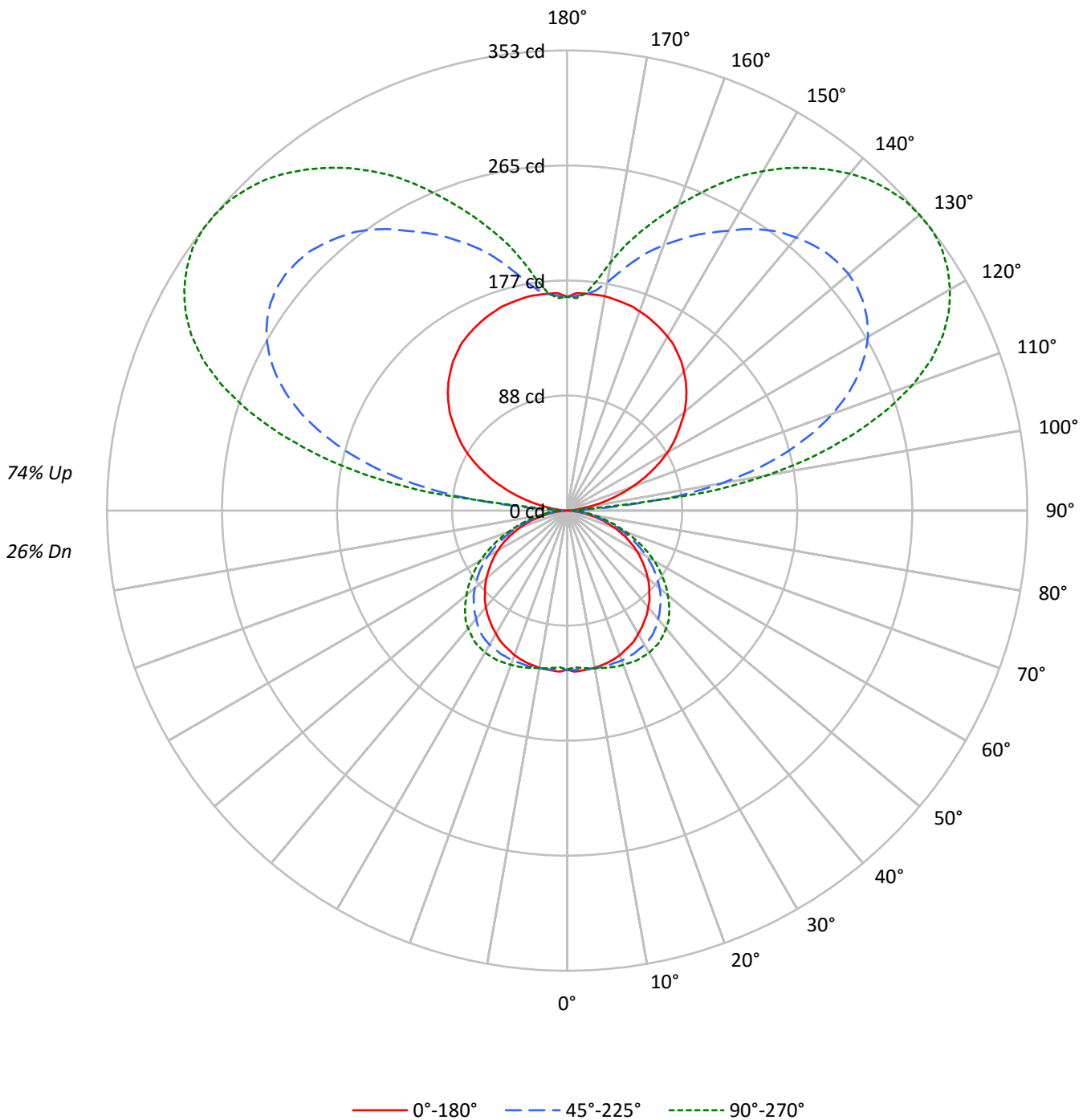
Lumens per Lamp: N/A
Luminaire Lumens: 1607.5 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	671	671	671
5°	678	660	649
10°	678	655	647
15°	679	652	651
20°	680	653	657
25°	679	653	665
30°	676	654	670
35°	674	651	671
40°	671	637	662
45°	664	621	645
50°	658	601	617
55°	644	571	581
60°	630	531	537
65°	603	477	476
70°	560	406	403
75°	484	323	324
80°	375	230	237
85°	221	142	159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.7
10°-20°	34.7	2.2
20°-30°	55.6	3.5
30°-40°	71.1	4.4
40°-50°	77.5	4.8
50°-60°	72.6	4.5
60°-70°	56.4	3.5
70°-80°	32.3	2.0
80°-90°	10.3	0.6
90°-100°	41.5	2.6
100°-110°	161.2	10.0
110°-120°	219.4	13.6
120°-130°	227.8	14.2
130°-140°	202.0	12.6
140°-150°	156.8	9.8
150°-160°	104.6	6.5
160°-170°	55.8	3.5
170°-180°	16.3	1.0
0°-30°	101.9	6.3
0°-40°	173.1	10.8
0°-60°	323.2	20.1
0°-90°	422.2	26.3
90°-120°	422.1	26.3
90°-150°	1008.6	62.7
90°-180°	1185.0	73.7
0°-180°	1607.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	122	122	122	122	122	
5°	123	122	122	122	121	12
15°	121	120	123	125	125	34
25°	114	115	121	126	127	53
35°	103	106	115	121	123	65
45°	89	93	101	108	111	69
55°	71	75	82	88	90	64
65°	51	53	58	62	63	50
75°	26	28	30	33	34	28
85°	5	6	9	12	12	6
90°	0	1	3	4	5	1
95°	5	29	40	8	8	7
105°	34	103	175	208	228	36
115°	71	160	246	290	318	70
125°	103	188	278	326	351	92
135°	129	198	280	329	348	100
145°	148	198	263	305	321	92
155°	159	187	233	264	276	73
165°	165	172	198	217	222	47
175°	167	166	166	167	167	16
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
2.5°	123.7	123.3	123.3	122.4	122.4	122.0	122.0	122.0	122.0	122.0	122.4
5°	123.3	123.3	122.8	122.4	122.4	122.0	122.0	122.0	122.0	122.0	122.4
7.5°	122.8	122.8	122.4	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.8
10°	122.4	122.4	122.0	121.6	121.6	121.6	121.6	122.0	122.0	122.0	122.8
12.5°	121.6	121.1	121.1	120.7	120.7	120.7	121.1	121.1	121.6	122.0	122.8
15°	120.7	120.7	120.3	119.8	120.3	120.3	120.3	120.7	121.1	121.6	122.8
17.5°	119.4	119.4	118.9	118.9	118.9	119.4	119.4	119.8	120.7	121.6	122.4
20°	118.1	117.7	117.7	117.7	118.1	118.1	118.5	119.4	119.8	121.1	122.4
22.5°	115.9	116.4	115.9	115.9	116.4	116.8	117.3	118.1	118.9	120.3	121.6
25°	114.2	114.2	114.2	114.2	115.1	115.1	115.9	116.8	118.1	119.4	121.1
27.5°	112.1	112.1	112.1	112.5	112.9	113.4	113.7	115.1	116.4	118.1	119.8
30°	109.1	109.1	109.1	109.1	110.3	110.7	111.6	113.4	114.6	116.8	118.9
32.5°	106.4	106.4	106.4	106.8	107.7	108.2	109.1	111.2	112.9	115.1	117.3
35°	103.4	103.4	103.8	103.8	105.1	105.5	106.4	108.2	109.8	112.5	115.1
37.5°	100.4	100.4	100.8	101.2	102.1	103.0	103.8	105.5	107.3	109.4	112.1
40°	96.9	96.9	97.3	97.7	99.1	100.0	100.8	102.5	104.3	106.4	108.6
42.5°	93.4	93.4	93.9	94.3	95.6	96.4	97.3	99.5	101.2	103.4	105.1
45°	89.1	89.5	90.0	90.9	92.1	93.0	93.9	95.6	97.7	99.5	101.2
47.5°	85.2	85.7	86.1	87.0	88.2	89.1	90.0	91.7	93.4	95.2	97.3
50°	80.9	81.3	81.8	82.6	83.9	84.8	85.7	87.4	89.1	90.4	92.5
52.5°	76.1	76.6	77.0	77.9	79.6	80.0	80.9	82.6	83.9	85.7	87.4
55°	71.3	71.8	72.2	73.1	74.4	75.2	75.7	77.4	78.8	80.4	82.2
57.5°	66.6	67.0	67.5	68.3	69.2	70.1	70.6	71.8	73.6	74.9	76.6
60°	61.5	61.9	62.3	62.7	64.0	64.5	64.9	66.2	67.5	69.2	70.6
62.5°	56.2	56.2	56.7	57.1	58.4	58.8	59.2	60.1	61.9	62.7	64.0
65°	50.6	50.6	51.0	51.5	52.4	52.8	53.2	54.0	55.4	56.2	57.6
67.5°	44.6	44.6	44.9	45.4	46.3	46.7	46.7	48.0	48.9	49.7	50.6
70°	38.9	38.9	39.4	39.4	39.8	40.3	40.7	41.5	41.9	43.3	43.7
72.5°	32.8	32.8	32.8	32.8	33.7	33.7	34.2	35.1	35.5	36.4	37.2
75°	26.4	26.4	26.8	26.8	27.3	27.7	28.1	28.5	29.4	29.8	30.3
77.5°	20.8	20.3	20.8	21.2	21.6	21.6	22.1	22.5	23.0	23.8	24.2
80°	14.7	14.7	14.7	15.1	15.5	15.5	16.0	16.4	16.9	17.7	18.2
82.5°	9.5	9.5	10.0	10.0	10.4	10.8	10.8	11.2	11.7	12.5	13.0
85°	5.2	5.2	5.2	5.7	6.1	6.1	6.4	6.9	7.8	8.2	9.1
87.5°	1.8	1.8	2.1	2.6	3.0	3.0	3.4	3.9	4.3	5.2	5.7
90°	0.4	0.4	0.4	0.9	0.9	1.3	1.3	1.8	2.1	2.6	3.0
92.5°	1.8	3.0	4.8	6.9	6.4	6.9	4.8	3.0	3.0	3.0	3.4
95°	5.2	7.8	12.5	19.9	26.0	29.4	32.4	35.5	41.5	41.9	40.3
97.5°	10.4	14.3	23.0	32.4	43.3	48.9	53.2	62.3	71.8	77.9	85.2
100°	17.3	23.0	34.2	47.2	59.7	67.0	74.0	87.0	98.6	109.1	120.3
102.5°	25.5	32.1	45.8	61.9	77.4	85.7	93.0	108.2	124.1	138.0	150.1
105°	34.2	41.5	57.9	76.1	93.9	103.4	112.5	128.9	145.8	160.9	175.2
107.5°	43.7	51.5	69.2	89.5	109.4	120.3	130.2	147.9	165.7	182.1	197.3
110°	52.8	61.5	80.0	102.1	124.6	135.4	145.3	164.9	183.4	200.7	216.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	62.3	71.3	90.0	114.2	137.1	148.3	158.8	179.5	199.0	216.7	232.8
115°	71.3	80.0	99.5	124.6	147.9	159.6	170.9	192.1	212.4	230.1	246.5
117.5°	80.0	88.2	108.2	133.2	157.4	169.1	180.4	202.5	222.8	241.4	257.4
120°	88.7	96.1	117.7	140.6	165.2	177.0	188.6	210.7	231.4	250.1	266.5
122.5°	96.4	103.4	124.6	147.1	171.3	183.4	194.7	217.1	238.3	257.0	272.9
125°	103.4	109.8	131.0	152.2	176.5	188.2	199.8	221.9	243.1	261.3	277.7
127.5°	110.3	116.8	135.8	157.4	180.0	192.1	203.4	225.3	246.2	264.7	280.7
130°	117.7	122.4	140.6	162.2	183.4	194.7	206.4	227.5	247.9	266.0	282.0
132.5°	123.7	128.0	145.3	166.1	186.0	196.8	207.2	228.4	248.7	266.0	281.6
135°	129.4	132.8	148.8	169.5	188.2	198.1	208.0	228.0	247.9	265.2	280.4
137.5°	134.6	138.0	151.9	172.2	189.9	198.6	208.0	226.7	245.7	263.0	277.3
140°	139.2	141.9	154.4	173.4	190.7	199.0	207.2	224.5	242.2	259.1	273.4
142.5°	144.0	146.2	156.6	174.3	191.2	199.0	206.8	221.9	238.3	254.7	269.1
145°	147.5	149.7	158.3	174.7	190.7	198.1	205.0	219.3	234.0	249.2	263.0
147.5°	151.4	153.1	160.1	173.9	189.5	196.4	202.9	215.9	229.2	243.1	256.1
150°	154.0	155.8	160.9	173.1	187.3	193.8	200.3	212.4	224.5	236.6	247.9
152.5°	156.6	157.9	162.2	171.7	184.7	190.7	196.8	208.5	219.8	230.6	240.5
155°	158.8	160.1	163.1	170.9	181.7	187.3	192.9	204.1	214.6	224.1	233.2
157.5°	160.9	161.8	164.0	169.5	178.2	183.4	188.6	198.6	208.0	217.6	224.9
160°	162.6	163.1	164.9	169.1	175.2	179.1	183.8	192.9	201.6	209.8	216.7
162.5°	164.4	164.4	165.7	168.3	172.6	175.2	178.6	186.4	194.3	201.6	208.0
165°	165.2	165.2	166.1	167.9	170.4	172.2	174.3	179.5	185.6	192.1	198.1
167.5°	166.1	166.1	166.5	167.4	169.1	170.0	170.9	174.3	178.2	183.0	187.7
170°	167.0	166.5	166.5	167.4	167.9	168.3	168.7	170.4	172.2	175.2	177.7
172.5°	167.0	166.5	166.5	167.0	167.0	167.0	167.0	167.4	167.9	169.5	170.4
175°	167.0	166.5	166.5	166.5	166.5	166.1	166.1	166.1	166.1	166.1	166.5
177.5°	167.0	166.5	166.1	166.1	165.7	165.7	165.2	165.2	164.9	164.9	164.9
180°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
2.5°	122.4	122.4	122.0	122.0	121.6	121.6	121.1	120.7	120.3	120.3
5°	122.8	122.4	122.0	122.0	122.0	121.6	121.6	121.6	121.1	121.1
7.5°	122.8	122.8	122.8	122.4	122.4	122.4	122.4	122.4	122.0	122.0
10°	123.3	123.3	123.3	123.3	123.3	123.3	123.3	122.8	122.8	122.8
12.5°	123.3	123.3	123.3	123.7	123.7	123.7	123.7	123.7	123.7	123.7
15°	123.7	123.7	124.1	124.1	124.6	124.6	125.0	125.0	125.0	124.6
17.5°	123.3	123.7	124.1	124.6	125.0	125.0	125.5	125.5	125.5	125.5
20°	123.3	124.1	124.6	125.0	125.5	125.5	125.9	126.3	126.3	125.9
22.5°	122.8	123.7	124.1	125.0	125.5	125.5	126.3	126.3	126.3	126.3
25°	122.4	123.3	124.1	125.0	125.5	125.5	126.3	126.3	126.7	126.7
27.5°	121.6	122.4	123.7	124.6	125.0	125.5	125.9	126.3	126.3	126.3
30°	120.3	121.6	122.8	123.7	124.1	124.6	125.0	125.5	125.9	125.9
32.5°	118.5	119.8	121.1	122.4	122.8	123.3	124.1	124.6	124.6	124.6
35°	116.8	118.1	119.4	120.7	121.1	121.6	122.4	122.8	123.3	123.3
37.5°	114.2	115.5	116.8	118.1	118.5	119.4	120.3	120.7	120.7	120.7
40°	110.3	112.5	114.2	115.5	115.9	116.8	117.3	118.1	118.1	118.1
42.5°	106.8	108.6	109.8	111.6	112.1	113.4	114.2	114.6	115.1	115.1
45°	103.0	104.7	106.0	107.3	107.7	108.6	109.4	109.8	110.3	110.7
47.5°	99.1	100.4	101.6	103.0	103.4	104.3	105.1	105.5	106.0	106.0
50°	94.3	95.6	96.9	98.2	98.6	99.5	100.0	100.4	100.8	100.8
52.5°	89.1	90.4	91.7	93.0	93.4	93.9	94.7	95.2	95.6	95.6
55°	83.9	85.2	86.1	87.4	87.8	88.2	88.7	89.5	90.0	89.5
57.5°	77.9	79.2	80.0	81.3	81.8	82.2	82.6	83.1	83.5	83.5
60°	71.3	72.7	74.0	74.9	75.2	75.7	76.1	76.6	77.0	77.0
62.5°	64.9	66.2	67.0	68.3	68.8	68.8	69.2	69.7	70.1	70.1
65°	58.4	59.7	60.1	61.5	61.5	61.9	62.3	62.7	62.7	62.7
67.5°	51.5	52.8	53.2	54.0	54.0	54.5	54.9	55.4	55.4	55.4
70°	44.9	45.4	46.3	46.7	47.2	47.2	47.6	48.0	48.5	48.0
72.5°	38.1	38.5	39.4	39.8	39.8	40.3	40.3	40.7	41.1	41.1
75°	31.2	32.1	32.4	32.8	33.3	33.3	33.7	34.2	34.2	34.2
77.5°	24.6	25.5	26.0	26.4	26.8	26.8	27.3	27.3	27.7	27.3
80°	19.1	19.4	19.9	20.3	20.8	20.8	21.2	21.6	21.6	21.6
82.5°	13.9	14.3	15.1	15.5	15.5	15.5	16.4	16.4	16.9	16.4
85°	9.5	10.0	10.8	11.2	11.7	11.7	11.7	12.1	12.5	12.1
87.5°	6.1	6.9	7.3	7.8	7.8	7.8	8.2	8.7	8.7	8.7
90°	3.4	3.4	3.9	4.3	4.3	4.8	4.8	5.2	5.2	5.2
92.5°	3.4	3.9	3.9	3.9	4.3	4.3	4.3	4.8	4.8	4.8
95°	29.4	21.2	12.1	9.5	8.2	8.2	7.8	8.2	7.8	7.8
97.5°	89.1	96.4	100.0	104.7	107.3	106.8	105.1	106.8	105.5	106.8
100°	126.7	133.7	138.9	140.1	142.8	144.0	148.8	152.2	154.0	156.2
102.5°	157.4	165.7	171.7	175.2	177.7	179.5	185.2	190.4	192.9	194.7
105°	185.6	194.3	201.6	205.0	208.0	209.8	215.9	221.9	225.8	228.0
107.5°	208.0	218.0	225.8	231.0	234.0	237.1	244.4	250.5	255.2	257.4
110°	228.4	238.3	246.5	252.6	256.1	259.1	267.4	274.3	279.5	282.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	245.3	256.1	264.3	270.8	274.3	278.6	286.4	294.1	299.3	302.3
115°	259.1	270.4	279.0	285.9	289.8	293.7	302.8	310.6	315.8	318.0
117.5°	270.8	282.0	291.1	298.0	302.3	306.7	315.8	322.7	328.3	330.1
120°	280.4	291.6	300.7	308.4	312.8	316.6	325.3	332.6	337.8	339.2
122.5°	286.8	298.5	308.0	316.6	320.5	324.4	332.6	340.0	344.7	346.0
125°	291.6	303.7	313.2	322.3	326.2	330.1	337.8	345.2	349.0	350.8
127.5°	294.6	306.7	317.1	325.7	330.1	333.5	341.3	347.8	351.7	353.0
130°	295.5	308.0	318.4	327.5	331.4	334.8	342.2	348.7	352.1	353.0
132.5°	295.5	307.5	318.4	327.1	330.9	334.4	341.3	347.4	350.8	351.7
135°	293.7	305.4	316.2	324.9	328.7	332.2	339.2	344.4	347.8	348.3
137.5°	290.7	301.9	312.3	321.0	324.9	328.3	334.4	340.0	343.0	343.9
140°	286.8	297.2	307.5	315.8	319.6	322.7	328.7	333.5	336.5	337.4
142.5°	281.6	292.0	301.5	309.8	312.8	316.2	321.4	326.2	328.7	329.6
145°	276.0	285.9	294.6	301.9	305.4	308.4	313.2	317.5	320.1	321.0
147.5°	268.6	278.6	286.8	293.7	296.8	299.8	304.1	308.0	310.6	311.4
150°	259.5	268.6	277.3	283.8	286.8	289.8	294.1	297.6	300.2	300.7
152.5°	250.5	259.1	266.5	272.9	276.0	279.0	282.9	286.4	289.4	289.4
155°	241.9	249.2	256.1	261.7	264.3	266.9	270.8	273.8	276.4	276.4
157.5°	232.8	239.6	245.3	250.5	252.6	254.7	258.3	260.8	263.0	262.6
160°	224.1	229.2	234.4	238.8	241.0	242.6	245.3	247.4	249.6	249.2
162.5°	214.6	219.3	223.7	226.7	228.4	229.7	232.3	234.4	235.8	235.8
165°	203.7	208.0	211.9	215.0	216.7	217.6	219.8	221.0	222.3	222.3
167.5°	192.5	195.9	199.4	202.0	203.7	204.6	206.8	207.7	209.4	208.9
170°	181.3	183.8	186.4	188.6	189.5	190.4	192.1	192.9	193.8	193.8
172.5°	172.2	173.1	174.3	176.1	176.1	176.5	177.4	177.7	178.2	178.2
175°	167.0	167.4	167.4	167.4	167.4	167.4	167.9	167.4	167.9	167.4
177.5°	164.9	164.9	164.4	164.4	164.0	164.4	164.0	163.5	163.5	163.1
180°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0

(END OF REPORT)