

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: P393820

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

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-UL-20L830-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
2000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

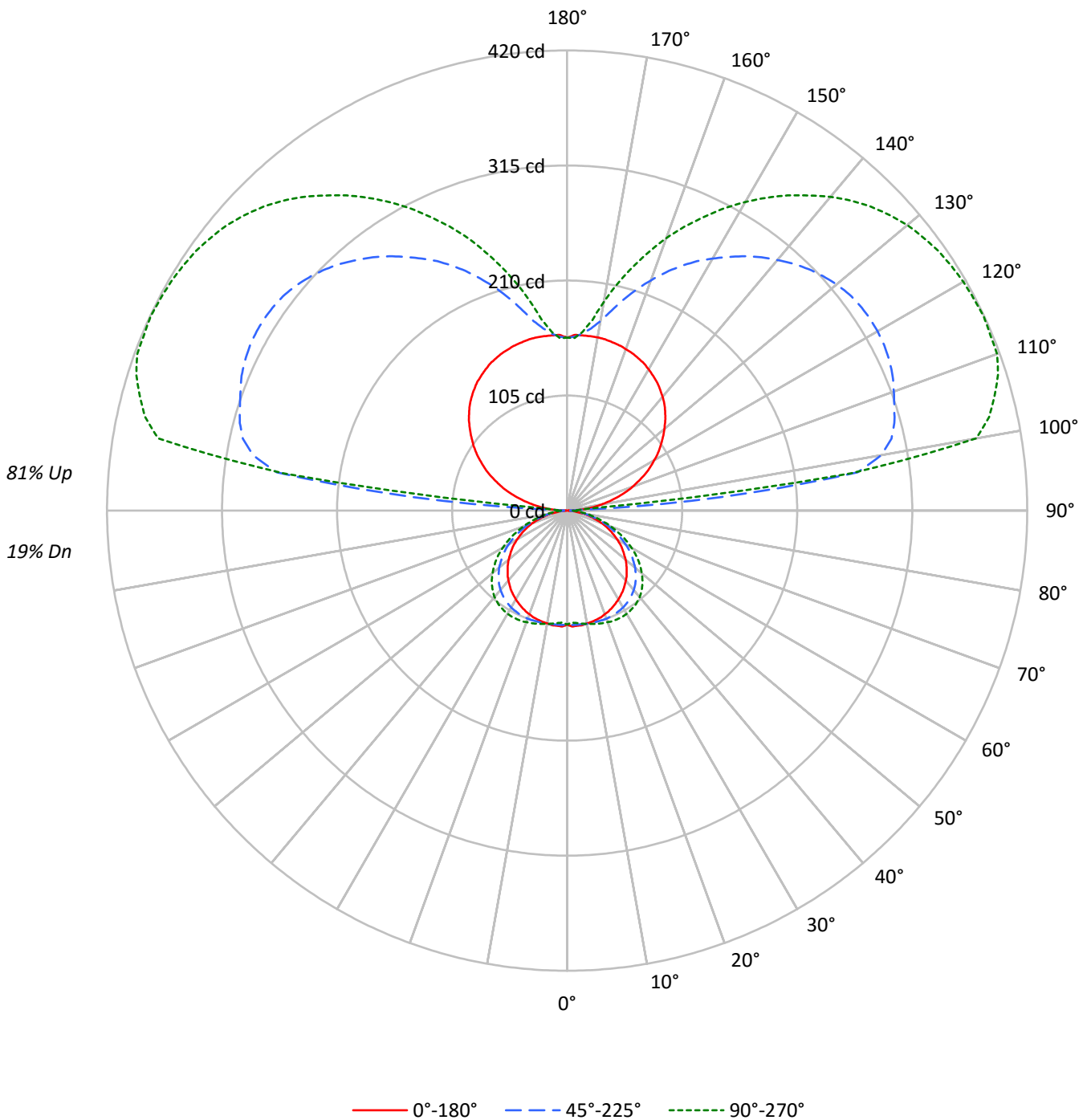
Lumens per Lamp: N/A
Luminaire Lumens: 1910.3 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16				
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11				
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9				
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8				
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7				
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	572	572	572
5°	580	563	553
10°	579	560	553
15°	580	558	558
20°	580	560	565
25°	580	561	573
30°	580	562	579
35°	580	559	582
40°	577	555	578
45°	572	543	565
50°	567	526	545
55°	557	500	514
60°	540	464	473
65°	516	413	422
70°	488	359	356
75°	423	281	285
80°	337	202	206
85°	199	117	136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.5
10°-20°	29.7	1.6
20°-30°	47.8	2.5
30°-40°	61.5	3.2
40°-50°	67.5	3.5
50°-60°	63.4	3.3
60°-70°	49.3	2.6
70°-80°	28.3	1.5
80°-90°	9.1	0.5
90°-100°	122.1	6.4
100°-110°	290.2	15.2
110°-120°	291.5	15.3
120°-130°	267.3	14.0
130°-140°	223.5	11.7
140°-150°	167.8	8.8
150°-160°	109.2	5.7
160°-170°	56.2	2.9
170°-180°	15.9	0.8
0°-30°	87.4	4.6
0°-40°	148.9	7.8
0°-60°	279.8	14.6
0°-90°	366.4	19.2
90°-120°	703.8	36.8
90°-150°	1362.5	71.3
90°-180°	1544.0	80.8
0°-180°	1910.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	104	104	104	104	104	
5°	106	104	104	104	103	10
15°	103	103	105	106	107	29
25°	98	98	104	108	109	45
35°	89	91	99	105	107	56
45°	77	80	88	95	97	59
55°	62	65	72	77	79	55
65°	43	46	50	54	56	43
75°	23	24	26	29	30	25
85°	5	6	8	10	10	6
90°	0	1	3	4	5	1
95°	16	136	140	19	16	16
105°	48	183	309	381	404	50
115°	79	206	324	394	420	77
125°	104	215	326	391	413	93
135°	127	214	312	370	392	98
145°	143	205	283	333	351	89
155°	154	188	246	282	296	71
165°	159	170	200	221	230	45
175°	160	160	162	164	164	15
180°	158	158	158	158	158	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0
2.5°	105.9	105.5	105.0	105.0	104.5	104.5	104.5	104.0	104.0	104.0	104.5
5°	105.5	105.5	105.0	104.5	104.5	104.5	104.0	104.0	104.0	104.0	104.5
7.5°	105.5	105.0	104.5	104.5	104.0	104.0	104.0	104.0	104.0	104.0	104.5
10°	104.5	104.5	104.0	104.0	103.6	104.0	104.0	104.0	104.0	104.0	105.0
12.5°	104.0	104.0	103.6	103.1	103.1	103.1	103.6	103.6	103.6	104.0	105.0
15°	103.1	103.1	102.6	102.6	102.6	102.6	103.1	103.1	103.6	104.0	105.0
17.5°	102.2	102.2	101.7	101.7	101.7	102.2	102.2	102.6	103.1	104.0	105.0
20°	100.7	100.7	100.7	100.7	100.7	101.2	101.2	101.7	102.6	103.6	105.0
22.5°	99.3	99.3	99.3	99.3	99.3	99.8	100.3	101.2	101.7	103.1	104.5
25°	97.5	97.5	97.5	97.5	97.9	98.4	98.9	99.8	100.7	102.2	104.0
27.5°	95.6	96.0	96.0	96.0	96.5	97.0	97.5	98.4	99.8	101.7	103.1
30°	93.7	93.7	93.7	94.2	94.6	95.1	96.0	97.0	98.4	100.3	102.2
32.5°	91.3	91.3	91.8	91.8	92.7	93.2	94.2	95.6	97.0	98.9	100.7
35°	89.0	89.0	89.0	89.9	90.4	91.3	91.8	93.2	95.1	97.0	98.9
37.5°	86.2	86.6	86.6	87.1	88.0	89.0	89.5	91.3	93.2	95.1	97.0
40°	83.3	83.8	83.8	84.3	85.7	86.2	87.1	89.0	90.4	92.7	94.6
42.5°	80.5	80.5	81.0	81.4	82.9	83.3	84.3	86.2	88.0	89.9	91.8
45°	76.7	77.2	77.7	78.2	79.6	80.5	81.4	82.9	84.7	86.6	88.5
47.5°	73.4	73.4	73.9	74.9	76.3	77.2	77.7	79.6	81.0	82.9	84.7
50°	69.7	70.1	70.1	71.1	72.5	73.4	73.9	75.8	77.2	79.1	81.0
52.5°	65.4	65.9	66.4	67.3	68.7	69.7	70.1	71.6	73.0	74.9	76.3
55°	61.7	62.1	62.1	63.1	64.5	65.0	65.9	66.9	68.7	70.1	72.0
57.5°	57.4	57.9	57.9	58.8	59.8	60.7	61.2	62.6	64.0	65.4	66.9
60°	52.7	53.2	53.7	54.1	55.1	56.0	56.5	57.4	58.8	60.3	61.7
62.5°	48.0	48.5	49.0	49.4	50.4	50.8	51.3	52.7	53.7	55.1	56.0
65°	43.3	43.8	44.3	44.7	45.2	45.7	46.1	47.1	48.0	49.4	49.9
67.5°	38.6	39.1	39.1	39.5	40.0	40.5	41.0	41.9	42.4	43.8	44.3
70°	33.9	33.9	33.9	34.4	34.4	34.8	35.3	36.3	36.7	37.7	38.6
72.5°	28.2	28.7	28.7	28.7	29.2	29.7	30.1	30.6	31.1	31.5	32.5
75°	23.1	23.5	23.1	23.5	24.0	24.0	24.5	25.0	25.4	25.9	26.4
77.5°	18.4	17.9	18.4	18.4	18.8	18.8	18.8	19.3	20.2	20.2	21.2
80°	13.2	13.2	13.2	13.2	13.7	13.7	14.1	14.1	15.1	15.5	16.0
82.5°	8.5	8.5	8.9	8.9	8.9	9.4	9.4	9.9	10.4	10.8	11.3
85°	4.7	4.7	4.7	5.2	5.2	5.6	5.6	6.1	6.6	7.1	7.5
87.5°	1.4	1.9	2.4	2.4	2.8	2.8	3.3	3.3	4.2	4.7	5.2
90°	0.5	0.5	0.9	0.9	0.9	1.4	1.4	1.9	1.9	2.4	2.8
92.5°	8.0	18.8	39.1	58.4	50.4	47.1	28.2	8.5	7.5	8.0	8.0
95°	16.5	31.1	57.0	92.3	119.6	136.5	147.8	169.5	191.6	187.8	140.3
97.5°	24.0	40.0	68.7	101.2	138.9	158.2	172.8	198.7	226.9	250.5	267.4
100°	31.5	48.0	78.6	112.5	147.4	164.8	181.7	217.0	244.8	268.4	290.9
102.5°	39.5	56.0	87.6	122.9	157.2	174.2	190.7	221.7	252.8	281.1	303.2
105°	47.5	64.5	95.6	131.8	166.2	183.1	199.1	228.8	257.5	283.9	309.3
107.5°	56.0	72.0	102.6	138.9	173.3	190.2	206.2	235.9	263.6	290.0	313.1
110°	63.6	79.1	109.7	145.5	179.8	196.8	212.8	242.5	269.8	294.7	317.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	70.6	85.7	116.3	151.1	185.0	202.0	217.5	247.2	274.5	299.0	321.6
115°	78.6	91.8	122.9	156.3	189.7	206.2	221.7	250.9	278.2	302.2	324.4
117.5°	85.2	97.9	128.5	160.5	193.5	209.5	224.6	253.8	280.6	304.6	326.3
120°	91.8	103.6	133.7	164.3	196.3	211.9	226.9	255.6	282.5	306.0	327.2
122.5°	98.4	109.2	137.9	168.1	198.7	214.2	228.8	257.1	283.4	306.5	327.2
125°	104.5	113.9	141.7	170.9	200.1	215.2	229.3	257.1	282.9	305.5	326.3
127.5°	110.2	119.1	144.5	173.7	201.0	215.6	229.3	256.1	282.0	304.1	324.4
130°	115.8	123.8	147.4	175.1	202.0	215.2	228.3	254.2	279.7	301.8	321.1
132.5°	121.5	129.0	149.7	176.5	202.4	215.2	227.4	252.3	276.8	298.5	316.8
135°	126.6	132.8	152.1	177.5	202.0	214.2	225.5	249.0	272.6	293.8	311.7
137.5°	131.4	136.5	153.9	178.0	201.5	212.8	224.1	245.3	267.4	288.1	305.5
140°	135.6	140.3	154.9	178.0	199.6	210.9	221.3	241.5	261.8	281.5	298.5
142.5°	139.4	143.6	156.3	177.0	197.7	208.6	218.4	237.7	256.1	274.9	291.4
145°	143.1	146.4	157.2	176.5	195.4	205.3	214.7	233.0	250.9	267.9	283.4
147.5°	145.9	149.2	158.2	174.7	192.6	201.5	210.4	227.9	244.3	260.3	274.5
150°	148.8	151.6	158.7	172.8	189.3	197.3	205.3	221.7	237.7	252.3	265.5
152.5°	151.6	153.5	160.1	170.9	185.5	193.0	201.0	215.6	230.2	243.9	256.6
155°	153.5	154.9	160.5	169.0	181.7	188.3	194.9	208.6	221.7	234.5	246.2
157.5°	155.4	156.8	161.0	167.6	177.5	183.6	189.3	201.0	213.3	224.6	235.4
160°	156.8	157.7	161.0	166.7	173.7	178.0	183.1	194.0	204.3	214.2	223.6
162.5°	158.2	158.7	161.0	165.2	170.4	173.3	177.0	185.5	194.9	203.4	211.9
165°	159.1	159.6	161.0	164.3	167.6	170.0	171.8	178.0	185.0	192.6	199.6
167.5°	160.1	160.1	161.0	163.4	165.2	166.7	168.1	171.4	176.1	181.7	186.9
170°	160.5	160.5	161.0	162.4	163.8	164.3	165.2	167.1	169.5	172.3	175.6
172.5°	160.5	160.5	160.5	161.5	162.0	162.0	162.0	162.9	164.3	166.2	167.6
175°	160.5	160.1	160.1	160.5	160.1	160.1	160.1	160.1	160.5	161.5	162.0
177.5°	160.5	160.1	159.6	159.6	159.1	159.1	158.7	158.7	158.7	158.7	158.7
180°	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0
2.5°	104.5	104.5	104.0	103.6	103.6	103.6	103.1	102.6	102.2	102.2
5°	104.5	104.5	104.0	104.0	104.0	104.0	103.6	103.6	103.1	103.1
7.5°	105.0	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.0	104.0
10°	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
12.5°	105.5	105.5	105.5	105.5	105.9	105.9	105.9	105.9	105.9	105.9
15°	105.5	105.9	106.4	106.4	106.4	106.9	106.9	106.9	106.9	106.9
17.5°	105.9	106.4	106.9	106.9	107.3	107.3	107.8	107.8	107.8	107.8
20°	105.9	106.4	106.9	107.3	107.8	107.8	108.3	108.8	108.8	108.3
22.5°	105.5	106.4	106.9	107.3	107.8	108.3	108.8	109.2	109.2	109.2
25°	105.0	105.9	106.9	107.8	107.8	108.3	109.2	109.2	109.2	109.2
27.5°	104.5	105.5	106.4	107.3	107.8	108.3	108.8	109.2	109.2	109.2
30°	103.6	105.0	105.9	106.9	107.3	107.8	108.3	108.8	108.8	108.8
32.5°	102.2	103.6	104.5	105.9	106.4	106.9	107.3	107.8	107.8	107.8
35°	100.7	102.2	103.1	104.5	105.0	105.5	106.4	106.4	106.9	106.9
37.5°	98.4	100.3	101.2	102.6	103.1	103.6	104.5	105.0	105.0	105.0
40°	96.0	97.9	98.9	100.3	100.7	101.2	102.2	102.6	103.1	103.1
42.5°	93.2	95.1	96.0	97.5	97.9	98.4	99.3	99.8	100.3	100.3
45°	90.4	91.8	92.7	94.2	95.1	95.1	96.0	96.5	97.0	97.0
47.5°	86.6	88.0	89.0	90.4	91.3	91.8	92.3	92.7	93.2	93.2
50°	82.4	83.8	85.2	86.2	87.1	87.1	88.0	88.5	89.0	89.0
52.5°	78.2	79.1	80.5	81.9	82.4	82.9	83.3	83.8	84.3	84.3
55°	73.4	74.4	75.8	76.7	77.2	77.7	78.2	78.6	79.1	79.1
57.5°	68.3	69.2	70.6	71.6	72.0	72.5	73.0	73.4	73.9	73.9
60°	62.6	63.6	65.0	65.9	66.4	66.4	67.3	67.8	67.8	67.8
62.5°	57.0	57.9	58.8	59.8	60.3	60.7	61.2	61.7	61.7	61.7
65°	51.3	52.3	53.2	53.7	54.1	54.1	54.6	55.1	55.6	55.6
67.5°	45.2	46.1	47.1	47.5	48.0	48.0	48.5	49.0	49.0	49.0
70°	39.1	39.5	40.5	41.0	41.4	41.4	42.4	42.4	42.4	42.4
72.5°	33.0	33.4	34.4	34.8	35.3	35.3	35.8	36.3	36.3	36.3
75°	27.3	27.8	28.2	29.2	29.2	29.2	29.7	30.1	30.1	30.1
77.5°	21.7	22.1	22.6	23.1	23.5	23.5	24.0	24.5	24.5	24.5
80°	16.5	16.9	17.4	17.9	17.9	18.4	18.4	18.8	18.8	18.8
82.5°	11.8	12.2	12.7	13.2	13.7	13.7	14.1	14.6	14.6	14.1
85°	8.0	8.9	9.4	9.9	9.9	9.9	10.4	10.8	10.8	10.4
87.5°	5.6	5.6	6.1	6.6	6.6	7.1	7.1	7.5	7.5	7.5
90°	3.3	3.3	3.8	3.8	4.2	4.2	4.2	4.7	4.7	4.7
92.5°	8.0	8.0	8.5	8.5	8.5	8.5	8.9	8.9	8.9	8.9
95°	85.7	38.6	32.5	19.8	18.8	16.5	16.0	16.5	16.5	16.0
97.5°	287.7	307.9	320.6	326.7	319.2	311.2	302.2	300.8	288.6	261.3
100°	310.3	326.3	341.8	352.6	356.9	360.6	369.1	374.3	376.6	379.0
102.5°	321.6	338.5	352.2	365.8	371.5	376.6	384.2	390.3	392.6	394.5
105°	331.4	348.9	363.9	376.2	381.3	386.0	393.6	399.2	403.5	403.9
107.5°	333.8	352.2	369.1	384.2	390.3	395.5	404.4	408.6	412.4	412.4
110°	338.0	355.4	371.0	384.6	390.8	396.9	406.3	412.9	416.7	417.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	341.3	359.2	373.8	387.5	392.6	398.3	407.2	413.4	416.7	418.1
115°	344.1	361.6	376.2	388.9	394.5	400.2	409.1	414.3	418.1	419.5
117.5°	346.0	363.0	377.6	389.3	395.5	400.2	408.6	414.3	418.1	418.5
120°	346.5	363.5	377.6	389.3	394.5	399.7	408.2	413.8	417.6	417.6
122.5°	346.5	363.0	377.1	388.4	393.1	397.8	405.8	412.4	415.7	415.7
125°	344.6	361.1	374.7	386.0	390.8	395.0	403.5	409.6	412.9	413.4
127.5°	341.8	357.8	371.5	382.8	387.5	391.2	400.2	405.8	409.1	409.6
130°	338.0	354.0	367.2	378.0	382.8	387.0	394.5	400.6	404.4	405.4
132.5°	333.8	348.9	362.0	372.4	377.1	380.9	388.4	394.5	397.8	399.2
135°	328.6	342.7	355.4	365.8	370.5	374.3	381.3	387.5	390.8	392.2
137.5°	322.0	335.7	347.9	358.3	362.5	366.3	373.3	379.0	381.8	383.7
140°	314.5	327.2	339.9	349.3	353.6	357.3	363.5	369.6	372.4	373.8
142.5°	306.5	319.2	330.5	339.9	343.7	347.4	353.6	359.2	362.0	362.5
145°	298.0	310.3	320.6	329.6	332.8	336.6	342.3	347.9	350.7	351.2
147.5°	288.6	299.9	309.8	318.3	322.0	324.8	330.0	335.2	338.0	338.5
150°	277.8	288.1	297.1	305.5	308.8	311.7	317.3	322.0	324.8	325.3
152.5°	267.4	277.3	284.8	292.4	295.7	298.5	303.2	307.9	310.7	311.2
155°	256.6	265.5	273.1	279.2	282.0	284.8	288.6	292.8	295.2	295.7
157.5°	245.3	253.8	260.3	266.0	268.8	271.2	274.5	278.2	279.7	280.6
160°	233.0	240.1	245.8	251.4	253.8	256.1	259.4	262.2	264.1	264.6
162.5°	219.9	226.0	230.7	235.9	237.3	239.2	242.5	245.3	246.7	247.2
165°	206.2	211.9	216.1	220.3	221.3	222.7	225.0	227.9	228.8	229.7
167.5°	192.6	197.3	200.1	203.9	205.3	206.2	208.6	210.4	211.4	211.9
170°	179.4	182.7	185.0	187.8	188.3	189.7	191.1	193.0	193.5	193.5
172.5°	169.0	170.4	171.8	172.8	173.3	173.7	174.7	175.1	175.1	175.1
175°	162.4	163.4	163.4	163.8	163.8	163.8	163.8	163.8	163.8	163.8
177.5°	158.7	158.7	158.7	158.2	158.2	158.2	158.2	157.7	157.7	157.7
180°	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7	157.7

(END OF REPORT)