

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: P393821

Luminaire Tested: **I3-UL-20L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393821
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-20L835-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
2000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

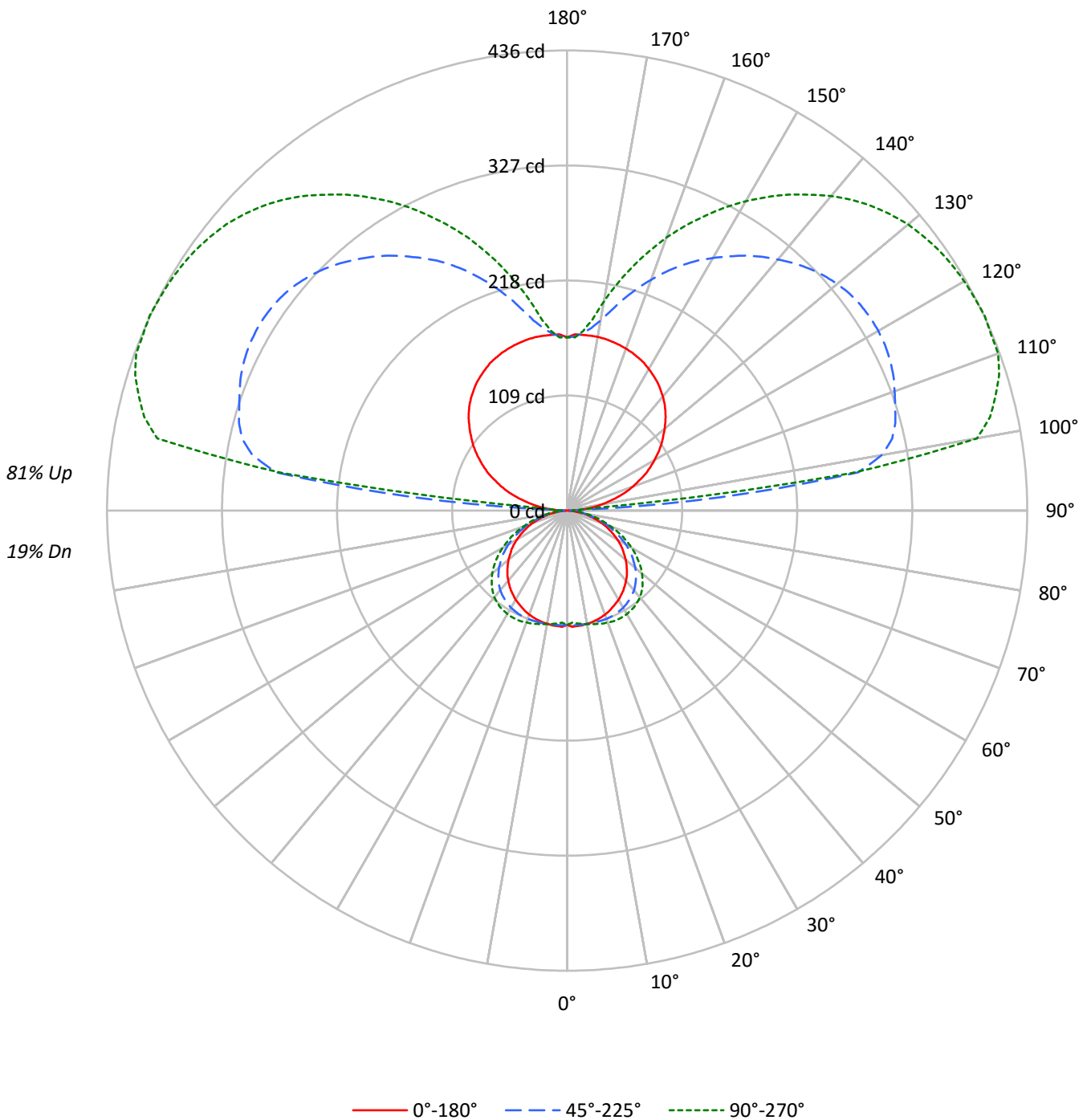
Lumens per Lamp: N/A
Luminaire Lumens: 1987.8 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

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	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°	595	595	595
5°	603	587	575
10°	603	582	576
15°	604	580	581
20°	604	582	588
25°	603	584	597
30°	604	585	603
35°	603	582	605
40°	601	578	602
45°	596	566	588
50°	590	547	567
55°	580	521	534
60°	562	483	491
65°	538	430	438
70°	508	373	370
75°	440	292	297
80°	349	211	215
85°	208	122	142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.5
10°-20°	30.9	1.6
20°-30°	49.7	2.5
30°-40°	63.9	3.2
40°-50°	70.2	3.5
50°-60°	66.0	3.3
60°-70°	51.3	2.6
70°-80°	29.4	1.5
80°-90°	9.4	0.5
90°-100°	127.1	6.4
100°-110°	302.0	15.2
110°-120°	303.3	15.3
120°-130°	278.2	14.0
130°-140°	232.6	11.7
140°-150°	174.6	8.8
150°-160°	113.7	5.7
160°-170°	58.5	2.9
170°-180°	16.6	0.8
0°-30°	90.9	4.6
0°-40°	154.9	7.8
0°-60°	291.2	14.6
0°-90°	381.3	19.2
90°-120°	732.4	36.8
90°-150°	1417.8	71.3
90°-180°	1606.0	80.8
0°-180°	1987.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	108	108	108	108	108	
5°	110	109	109	108	107	10
15°	107	107	109	111	111	30
25°	101	102	108	112	114	47
35°	93	95	103	109	111	58
45°	80	84	92	99	101	62
55°	64	68	75	80	82	57
65°	45	48	52	56	58	45
75°	24	25	27	30	31	26
85°	5	6	8	10	11	6
90°	0	2	3	4	5	1
95°	17	142	146	20	17	17
105°	50	191	322	397	420	52
115°	82	215	338	410	436	80
125°	109	224	340	407	430	97
135°	132	223	324	386	408	102
145°	149	214	295	346	366	93
155°	160	196	256	293	308	74
165°	166	177	208	230	239	47
175°	167	167	168	170	170	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°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	110.2	109.7	109.2	109.2	108.8	108.8	108.8	108.3	108.3	108.3	108.8
5°	109.7	109.7	109.2	108.8	108.8	108.8	108.3	108.3	108.3	108.3	108.8
7.5°	109.7	109.2	108.8	108.8	108.3	108.3	108.3	108.3	108.3	108.3	108.8
10°	108.8	108.8	108.3	108.3	107.8	108.3	108.3	108.3	108.3	108.3	109.2
12.5°	108.3	108.3	107.8	107.3	107.3	107.3	107.8	107.8	107.8	108.3	109.2
15°	107.3	107.3	106.8	106.8	106.8	106.8	107.3	107.3	107.8	108.3	109.2
17.5°	106.3	106.3	105.8	105.8	105.8	106.3	106.3	106.8	107.3	108.3	109.2
20°	104.8	104.8	104.8	104.8	104.8	105.3	105.3	105.8	106.8	107.8	109.2
22.5°	103.4	103.4	103.4	103.4	103.4	103.9	104.3	105.3	105.8	107.3	108.8
25°	101.4	101.4	101.4	101.4	101.9	102.4	102.9	103.9	104.8	106.3	108.3
27.5°	99.4	99.9	99.9	99.9	100.4	100.9	101.4	102.4	103.9	105.8	107.3
30°	97.5	97.5	97.5	98.0	98.5	99.0	99.9	100.9	102.4	104.3	106.3
32.5°	95.0	95.0	95.5	95.5	96.5	97.0	98.0	99.4	100.9	102.9	104.8
35°	92.6	92.6	92.6	93.6	94.1	95.0	95.5	97.0	99.0	100.9	102.9
37.5°	89.7	90.1	90.1	90.6	91.6	92.6	93.1	95.0	97.0	99.0	100.9
40°	86.7	87.2	87.2	87.7	89.2	89.7	90.6	92.6	94.1	96.5	98.5
42.5°	83.8	83.8	84.3	84.8	86.2	86.7	87.7	89.7	91.6	93.6	95.5
45°	79.9	80.3	80.8	81.3	82.8	83.8	84.8	86.2	88.2	90.1	92.1
47.5°	76.4	76.4	76.9	77.9	79.4	80.3	80.8	82.8	84.3	86.2	88.2
50°	72.5	73.0	73.0	74.0	75.4	76.4	76.9	78.9	80.3	82.3	84.3
52.5°	68.1	68.6	69.1	70.1	71.5	72.5	73.0	74.5	75.9	77.9	79.4
55°	64.2	64.7	64.7	65.6	67.1	67.6	68.6	69.6	71.5	73.0	75.0
57.5°	59.8	60.3	60.3	61.2	62.2	63.2	63.7	65.2	66.6	68.1	69.6
60°	54.9	55.4	55.8	56.3	57.3	58.3	58.8	59.8	61.2	62.7	64.2
62.5°	50.0	50.5	50.9	51.4	52.4	52.9	53.4	54.9	55.8	57.3	58.3
65°	45.1	45.6	46.1	46.5	47.0	47.5	48.0	49.0	50.0	51.4	51.9
67.5°	40.2	40.7	40.7	41.2	41.6	42.1	42.6	43.6	44.1	45.6	46.1
70°	35.3	35.3	35.3	35.8	35.8	36.3	36.7	37.7	38.2	39.2	40.2
72.5°	29.4	29.9	29.9	29.9	30.4	30.9	31.4	31.8	32.3	32.8	33.8
75°	24.0	24.5	24.0	24.5	25.0	25.0	25.5	26.0	26.5	26.9	27.4
77.5°	19.1	18.6	19.1	19.1	19.6	19.6	19.6	20.1	21.1	21.1	22.0
80°	13.7	13.7	13.7	13.7	14.2	14.2	14.7	14.7	15.7	16.2	16.7
82.5°	8.8	8.8	9.3	9.3	9.3	9.8	9.8	10.3	10.8	11.3	11.8
85°	4.9	4.9	4.9	5.4	5.4	5.9	5.9	6.4	6.9	7.3	7.8
87.5°	1.5	2.0	2.4	2.4	2.9	2.9	3.4	3.4	4.4	4.9	5.4
90°	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.4	2.9
92.5°	8.3	19.6	40.7	60.7	52.4	49.0	29.4	8.8	7.8	8.3	8.3
95°	17.1	32.3	59.3	96.0	124.4	142.1	153.8	176.4	199.4	195.5	146.0
97.5°	25.0	41.6	71.5	105.3	144.5	164.6	179.8	206.7	236.1	260.6	278.3
100°	32.8	50.0	81.8	117.1	153.3	171.5	189.1	225.8	254.7	279.2	302.8
102.5°	41.2	58.3	91.1	127.9	163.6	181.3	198.4	230.7	263.1	292.5	315.5
105°	49.5	67.1	99.4	137.2	172.9	190.6	207.2	238.1	268.0	295.4	321.9
107.5°	58.3	75.0	106.8	144.5	180.3	197.9	214.6	245.4	274.3	301.8	325.8
110°	66.1	82.3	114.1	151.4	187.1	204.8	221.4	252.3	280.7	306.7	330.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	73.5	89.2	121.0	157.3	192.5	210.2	226.3	257.2	285.6	311.1	334.6
115°	81.8	95.5	127.9	162.6	197.4	214.6	230.7	261.1	289.5	314.5	337.5
117.5°	88.7	101.9	133.7	167.1	201.3	218.0	233.7	264.1	292.0	317.0	339.5
120°	95.5	107.8	139.1	171.0	204.3	220.5	236.1	266.0	293.9	318.4	340.5
122.5°	102.4	113.7	143.5	174.9	206.7	222.9	238.1	267.5	294.9	318.9	340.5
125°	108.8	118.6	147.5	177.8	208.2	223.9	238.6	267.5	294.4	317.9	339.5
127.5°	114.6	123.9	150.4	180.8	209.2	224.4	238.6	266.5	293.4	316.5	337.5
130°	120.5	128.8	153.3	182.2	210.2	223.9	237.6	264.5	291.0	314.0	334.1
132.5°	126.4	134.2	155.8	183.7	210.7	223.9	236.6	262.6	288.1	310.6	329.7
135°	131.8	138.2	158.2	184.7	210.2	222.9	234.7	259.2	283.7	305.7	324.3
137.5°	136.7	142.1	160.2	185.2	209.7	221.4	233.2	255.2	278.3	299.8	317.9
140°	141.1	146.0	161.2	185.2	207.7	219.5	230.3	251.3	272.4	293.0	310.6
142.5°	145.0	149.4	162.6	184.2	205.8	217.0	227.3	247.4	266.5	286.1	303.2
145°	148.9	152.4	163.6	183.7	203.3	213.6	223.4	242.5	261.1	278.8	294.9
147.5°	151.9	155.3	164.6	181.8	200.4	209.7	219.0	237.1	254.3	270.9	285.6
150°	154.8	157.7	165.1	179.8	196.9	205.3	213.6	230.7	247.4	262.6	276.3
152.5°	157.7	159.7	166.6	177.8	193.0	200.9	209.2	224.4	239.6	253.8	267.0
155°	159.7	161.2	167.1	175.9	189.1	196.0	202.8	217.0	230.7	244.0	256.2
157.5°	161.7	163.1	167.5	174.4	184.7	191.1	196.9	209.2	221.9	233.7	244.9
160°	163.1	164.1	167.5	173.4	180.8	185.2	190.6	201.8	212.6	222.9	232.7
162.5°	164.6	165.1	167.5	172.0	177.3	180.3	184.2	193.0	202.8	211.6	220.5
165°	165.6	166.1	167.5	171.0	174.4	176.9	178.8	185.2	192.5	200.4	207.7
167.5°	166.6	166.6	167.5	170.0	172.0	173.4	174.9	178.3	183.2	189.1	194.5
170°	167.1	167.1	167.5	169.0	170.5	171.0	172.0	173.9	176.4	179.3	182.7
172.5°	167.1	167.1	167.1	168.0	168.5	168.5	168.5	169.5	171.0	172.9	174.4
175°	167.1	166.6	166.6	167.1	166.6	166.6	166.6	166.6	167.1	168.0	168.5
177.5°	167.1	166.6	166.1	166.1	165.6	165.6	165.1	165.1	165.1	165.1	165.1
180°	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	108.8	108.8	108.3	107.8	107.8	107.8	107.3	106.8	106.3	106.3
5°	108.8	108.8	108.3	108.3	108.3	108.3	107.8	107.8	107.3	107.3
7.5°	109.2	108.8	108.8	108.8	108.8	108.8	108.8	108.8	108.3	108.3
10°	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2	109.2
12.5°	109.7	109.7	109.7	109.7	110.2	110.2	110.2	110.2	110.2	110.2
15°	109.7	110.2	110.7	110.7	110.7	111.2	111.2	111.2	111.2	111.2
17.5°	110.2	110.7	111.2	111.2	111.7	111.7	112.2	112.2	112.2	112.2
20°	110.2	110.7	111.2	111.7	112.2	112.2	112.7	113.2	113.2	112.7
22.5°	109.7	110.7	111.2	111.7	112.2	112.7	113.2	113.7	113.7	113.7
25°	109.2	110.2	111.2	112.2	112.2	112.7	113.7	113.7	113.7	113.7
27.5°	108.8	109.7	110.7	111.7	112.2	112.7	113.2	113.7	113.7	113.7
30°	107.8	109.2	110.2	111.2	111.7	112.2	112.7	113.2	113.2	113.2
32.5°	106.3	107.8	108.8	110.2	110.7	111.2	111.7	112.2	112.2	112.2
35°	104.8	106.3	107.3	108.8	109.2	109.7	110.7	110.7	111.2	111.2
37.5°	102.4	104.3	105.3	106.8	107.3	107.8	108.8	109.2	109.2	109.2
40°	99.9	101.9	102.9	104.3	104.8	105.3	106.3	106.8	107.3	107.3
42.5°	97.0	99.0	99.9	101.4	101.9	102.4	103.4	103.9	104.3	104.3
45°	94.1	95.5	96.5	98.0	99.0	99.0	99.9	100.4	100.9	100.9
47.5°	90.1	91.6	92.6	94.1	95.0	95.5	96.0	96.5	97.0	97.0
50°	85.7	87.2	88.7	89.7	90.6	90.6	91.6	92.1	92.6	92.6
52.5°	81.3	82.3	83.8	85.2	85.7	86.2	86.7	87.2	87.7	87.7
55°	76.4	77.4	78.9	79.9	80.3	80.8	81.3	81.8	82.3	82.3
57.5°	71.0	72.0	73.5	74.5	75.0	75.4	75.9	76.4	76.9	76.9
60°	65.2	66.1	67.6	68.6	69.1	69.1	70.1	70.5	70.5	70.5
62.5°	59.3	60.3	61.2	62.2	62.7	63.2	63.7	64.2	64.2	64.2
65°	53.4	54.4	55.4	55.8	56.3	56.3	56.8	57.3	57.8	57.8
67.5°	47.0	48.0	49.0	49.5	50.0	50.0	50.5	50.9	50.9	50.9
70°	40.7	41.2	42.1	42.6	43.1	43.1	44.1	44.1	44.1	44.1
72.5°	34.3	34.8	35.8	36.3	36.7	36.7	37.2	37.7	37.7	37.7
75°	28.4	28.9	29.4	30.4	30.4	30.4	30.9	31.4	31.4	31.4
77.5°	22.5	23.0	23.5	24.0	24.5	24.5	25.0	25.5	25.5	25.5
80°	17.1	17.6	18.1	18.6	18.6	19.1	19.1	19.6	19.6	19.6
82.5°	12.2	12.7	13.2	13.7	14.2	14.2	14.7	15.2	15.2	14.7
85°	8.3	9.3	9.8	10.3	10.3	10.3	10.8	11.3	11.3	10.8
87.5°	5.9	5.9	6.4	6.9	6.9	7.3	7.3	7.8	7.8	7.8
90°	3.4	3.4	3.9	3.9	4.4	4.4	4.4	4.9	4.9	4.9
92.5°	8.3	8.3	8.8	8.8	8.8	8.8	9.3	9.3	9.3	9.3
95°	89.2	40.2	33.8	20.6	19.6	17.1	16.7	17.1	17.1	16.7
97.5°	299.3	320.4	333.6	340.0	332.2	323.8	314.5	313.0	300.3	271.9
100°	322.8	339.5	355.7	366.9	371.3	375.3	384.1	389.5	391.9	394.4
102.5°	334.6	352.2	366.4	380.7	386.5	391.9	399.8	406.1	408.6	410.5
105°	344.9	363.0	378.7	391.4	396.8	401.7	409.6	415.4	419.8	420.3
107.5°	347.3	366.4	384.1	399.8	406.1	411.5	420.8	425.2	429.2	429.2
110°	351.7	369.9	386.0	400.2	406.6	413.0	422.8	429.6	433.6	434.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	355.2	373.8	389.0	403.2	408.6	414.5	423.8	430.1	433.6	435.0
115°	358.1	376.2	391.4	404.7	410.5	416.4	425.7	431.1	435.0	436.5
117.5°	360.1	377.7	392.9	405.1	411.5	416.4	425.2	431.1	435.0	435.5
120°	360.6	378.2	392.9	405.1	410.5	415.9	424.7	430.6	434.5	434.5
122.5°	360.6	377.7	392.4	404.2	409.1	414.0	422.3	429.2	432.6	432.6
125°	358.6	375.8	390.0	401.7	406.6	411.0	419.8	426.2	429.6	430.1
127.5°	355.7	372.3	386.5	398.3	403.2	407.1	416.4	422.3	425.7	426.2
130°	351.7	368.4	382.1	393.4	398.3	402.7	410.5	416.9	420.8	421.8
132.5°	347.3	363.0	376.7	387.5	392.4	396.3	404.2	410.5	414.0	415.4
135°	341.9	356.6	369.9	380.7	385.5	389.5	396.8	403.2	406.6	408.1
137.5°	335.1	349.3	362.0	372.8	377.2	381.1	388.5	394.4	397.3	399.3
140°	327.3	340.5	353.7	363.5	367.9	371.8	378.2	384.6	387.5	389.0
142.5°	318.9	332.2	343.9	353.7	357.6	361.5	367.9	373.8	376.7	377.2
145°	310.1	322.8	333.6	342.9	346.4	350.3	356.2	362.0	365.0	365.5
147.5°	300.3	312.1	322.4	331.2	335.1	338.0	343.4	348.8	351.7	352.2
150°	289.0	299.8	309.1	317.9	321.4	324.3	330.2	335.1	338.0	338.5
152.5°	278.3	288.5	296.4	304.2	307.7	310.6	315.5	320.4	323.3	323.8
155°	267.0	276.3	284.1	290.5	293.4	296.4	300.3	304.7	307.2	307.7
157.5°	255.2	264.1	270.9	276.8	279.7	282.2	285.6	289.5	291.0	292.0
160°	242.5	249.8	255.7	261.6	264.1	266.5	269.9	272.9	274.8	275.3
162.5°	228.8	235.2	240.0	245.4	246.9	248.9	252.3	255.2	256.7	257.2
165°	214.6	220.5	224.9	229.3	230.3	231.7	234.2	237.1	238.1	239.1
167.5°	200.4	205.3	208.2	212.1	213.6	214.6	217.0	219.0	220.0	220.5
170°	186.7	190.1	192.5	195.5	196.0	197.4	198.9	200.9	201.3	201.3
172.5°	175.9	177.3	178.8	179.8	180.3	180.8	181.8	182.2	182.2	182.2
175°	169.0	170.0	170.0	170.5	170.5	170.5	170.5	170.5	170.5	170.5
177.5°	165.1	165.1	165.1	164.6	164.6	164.6	164.6	164.1	164.1	164.1
180°	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1	164.1

(END OF REPORT)