

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: P393805

Luminaire Tested: **I3-FL-30L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393805
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-30L830-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
3000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

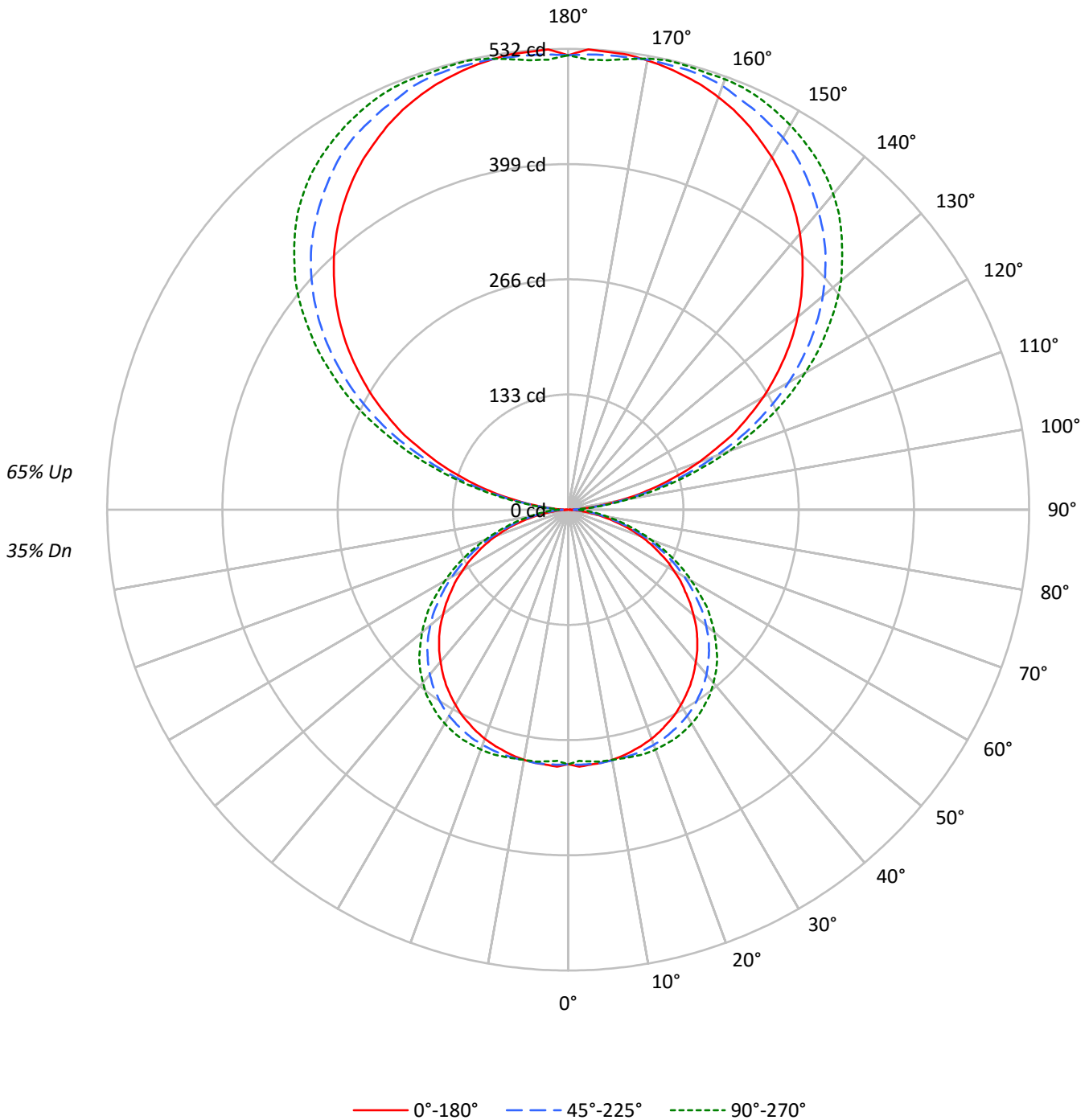
Lumens per Lamp: N/A
Luminaire Lumens: 2701.5 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 19.7
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	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°	1615	1615	1615
5°	1624	1589	1564
10°	1624	1567	1546
15°	1620	1554	1539
20°	1621	1540	1537
25°	1616	1527	1531
30°	1611	1512	1517
35°	1604	1488	1495
40°	1587	1457	1462
45°	1571	1411	1417
50°	1535	1349	1348
55°	1491	1264	1267
60°	1441	1165	1145
65°	1369	1044	1017
70°	1272	890	859
75°	1107	707	683
80°	864	502	500
85°	471	287	328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	1.0
10°-20°	82.4	3.1
20°-30°	130.0	4.8
30°-40°	163.4	6.0
40°-50°	175.7	6.5
50°-60°	161.6	6.0
60°-70°	123.8	4.6
70°-80°	70.5	2.6
80°-90°	22.0	0.8
90°-100°	29.4	1.1
100°-110°	128.0	4.7
110°-120°	234.4	8.7
120°-130°	302.1	11.2
130°-140°	321.5	11.9
140°-150°	295.8	10.9
150°-160°	234.3	8.7
160°-170°	148.4	5.5
170°-180°	50.2	1.9
0°-30°	240.4	8.9
0°-40°	403.8	14.9
0°-60°	741.1	27.4
0°-90°	957.3	35.4
90°-120°	391.8	14.5
90°-150°	1311.2	48.5
90°-180°	1744.0	64.6
0°-180°	2701.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	295	292	295	293	292	28
15°	288	287	292	295	295	81
25°	272	273	283	290	292	125
35°	246	249	263	272	275	154
45°	211	216	230	239	243	162
55°	165	172	182	192	195	148
65°	115	119	126	132	134	114
75°	60	62	66	70	72	64
85°	11	14	18	24	25	14
90°	1	2	7	10	11	2
95°	20	19	21	24	25	25
105°	108	114	122	130	132	115
115°	213	222	240	253	259	209
125°	304	318	342	359	366	272
135°	382	395	420	438	446	295
145°	445	454	475	489	497	278
155°	491	496	509	519	524	226
165°	519	519	526	530	530	147
175°	530	527	527	524	521	51
180°	524	524	524	524	524	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
2.5°	296.9	296.2	295.4	293.9	293.9	293.2	293.2	293.2	293.2	293.9	294.7
5°	295.4	295.4	294.7	293.2	293.2	292.5	292.5	293.2	292.5	293.2	294.7
7.5°	294.7	294.7	293.9	292.5	292.5	292.5	292.5	292.5	292.5	293.2	294.7
10°	293.2	293.2	291.7	291.0	291.0	291.0	291.0	291.7	291.7	292.5	293.9
12.5°	291.0	290.3	289.5	288.8	288.8	288.8	289.5	290.3	290.3	291.7	293.2
15°	288.0	288.0	287.3	286.6	286.6	286.6	287.3	288.0	288.8	290.3	292.5
17.5°	285.1	285.1	284.4	284.4	284.4	284.4	285.1	285.8	287.3	288.8	291.0
20°	281.4	281.4	280.7	280.7	280.7	281.4	281.4	282.9	284.4	286.6	288.8
22.5°	277.0	277.0	277.0	276.3	277.0	277.7	278.5	279.9	281.4	283.6	286.6
25°	271.8	271.8	271.8	271.8	272.6	272.6	274.0	275.5	277.0	279.9	282.9
27.5°	266.7	266.7	266.7	265.9	267.4	268.2	268.9	271.1	272.6	276.3	279.2
30°	260.1	260.1	260.1	260.8	261.5	262.3	263.7	265.9	267.4	271.1	274.8
32.5°	253.4	253.4	253.4	253.4	255.6	256.4	257.1	259.3	262.3	265.9	269.6
35°	246.1	246.1	246.1	246.8	248.3	249.0	250.5	252.7	255.6	259.3	263.0
37.5°	238.0	238.7	238.7	239.4	240.9	242.4	243.8	246.1	249.0	252.7	256.4
40°	229.1	229.8	229.8	230.6	232.1	233.5	235.0	238.0	240.9	244.6	248.3
42.5°	220.3	221.0	221.0	222.5	224.0	225.4	226.9	229.8	232.8	236.5	239.4
45°	210.7	211.4	211.4	212.9	215.1	215.9	218.1	221.0	224.0	226.9	229.8
47.5°	200.4	201.1	201.1	202.6	204.8	206.3	207.7	210.7	212.9	216.6	219.5
50°	188.6	189.3	190.1	191.5	194.5	196.0	197.4	199.6	202.6	204.8	207.7
52.5°	177.5	177.5	178.3	179.8	182.0	183.4	184.2	186.4	190.1	193.0	196.0
55°	165.0	165.8	166.5	168.0	170.2	171.6	172.4	174.6	176.8	179.0	182.0
57.5°	154.0	154.0	154.7	156.2	158.4	159.1	159.9	161.3	164.3	166.5	168.7
60°	140.7	141.4	142.2	143.7	145.1	146.6	146.6	148.8	151.0	153.2	154.7
62.5°	128.9	128.9	129.7	131.1	131.9	133.3	133.3	135.6	137.0	139.2	140.7
65°	114.9	115.7	116.4	117.1	118.6	118.6	119.3	120.8	122.3	123.8	126.0
67.5°	102.4	102.4	103.1	103.9	104.6	104.6	105.3	106.8	108.3	109.8	111.2
70°	88.4	89.1	89.1	89.1	89.9	90.6	91.3	92.1	93.6	94.3	95.8
72.5°	74.4	74.4	75.1	75.1	75.9	76.6	77.4	78.1	78.8	80.3	81.0
75°	60.4	60.4	61.1	61.1	61.9	61.9	61.9	63.4	64.1	65.6	66.3
77.5°	46.4	47.1	47.1	47.1	47.9	48.6	48.6	49.4	50.8	51.6	52.3
80°	33.9	33.9	33.9	33.9	34.6	35.4	36.1	36.1	37.6	39.0	39.8
82.5°	21.4	21.4	22.1	22.8	22.8	23.6	24.3	25.0	26.5	27.3	28.0
85°	11.1	11.1	11.8	12.5	13.3	14.0	14.0	14.7	16.2	17.7	18.4
87.5°	3.7	4.4	4.4	5.2	5.9	6.6	7.4	8.1	9.6	11.1	11.8
90°	0.7	0.7	0.7	1.5	2.2	2.2	2.9	3.7	4.4	5.2	6.6
92.5°	6.6	6.6	5.9	6.6	6.6	6.6	6.6	7.4	8.1	8.1	9.6
95°	19.9	19.2	19.2	19.2	19.2	19.2	19.2	19.9	20.6	20.6	21.4
97.5°	38.3	38.3	37.6	37.6	38.3	38.3	38.3	39.0	40.5	39.8	41.3
100°	59.7	59.7	58.9	59.7	60.4	61.1	62.6	62.6	64.1	64.1	66.3
102.5°	84.0	84.0	83.2	84.7	85.5	86.9	86.9	88.4	90.6	90.6	93.6
105°	108.3	109.0	109.0	110.5	112.0	113.5	113.5	115.7	118.6	118.6	122.3
107.5°	134.8	135.6	135.6	137.0	138.5	140.0	140.7	143.7	146.6	147.3	151.8
110°	160.6	161.3	162.1	163.5	165.0	167.2	168.7	171.6	175.3	176.8	180.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	184.9	187.9	188.6	190.8	193.0	195.2	196.7	200.4	204.8	207.0	211.4
115°	212.9	214.4	215.1	217.3	220.3	222.5	224.0	227.6	232.1	235.0	240.2
117.5°	235.7	239.4	240.2	242.4	245.3	247.5	249.0	253.4	258.6	262.3	267.4
120°	260.1	263.0	265.9	267.4	269.6	272.6	274.0	278.5	284.4	288.0	293.9
122.5°	282.2	285.1	288.0	290.3	293.2	294.7	296.9	302.0	307.9	312.4	318.3
125°	304.3	307.9	310.1	312.4	316.0	317.5	319.7	324.9	330.8	335.9	341.8
127.5°	325.6	327.8	331.5	333.0	336.7	338.1	340.4	346.2	352.1	357.3	363.2
130°	345.5	348.5	351.4	352.1	356.6	358.8	361.0	366.1	372.8	377.9	383.8
132.5°	364.7	366.1	369.8	372.0	375.7	377.9	380.1	384.6	391.2	396.3	402.2
135°	382.3	383.8	388.2	390.4	392.7	394.9	397.8	402.2	408.9	414.0	419.9
137.5°	400.0	401.5	405.9	408.1	409.6	411.8	414.0	418.4	425.1	430.2	435.4
140°	416.2	417.7	420.7	423.6	425.1	426.5	428.8	433.2	439.1	444.2	449.4
142.5°	431.0	432.4	435.4	438.3	440.5	440.5	442.8	446.4	453.1	458.2	462.6
145°	445.0	445.7	448.6	451.6	454.5	454.5	455.3	459.0	464.9	470.7	475.2
147.5°	458.2	459.0	461.2	464.1	466.3	467.1	468.5	470.0	475.9	481.8	487.0
150°	470.0	470.7	472.2	475.2	476.6	478.1	479.6	480.3	484.7	489.9	495.8
152.5°	480.3	481.1	482.5	484.7	486.2	487.7	489.2	491.4	493.6	498.7	502.4
155°	490.6	491.4	492.1	494.3	495.8	496.5	497.3	500.2	502.4	505.4	509.1
157.5°	499.5	499.5	500.2	501.7	503.2	503.2	503.9	506.8	509.1	512.0	514.2
160°	506.8	506.8	507.6	509.1	509.1	509.8	510.5	512.7	514.2	517.9	520.8
162.5°	513.5	512.7	513.5	514.2	514.2	514.2	514.9	516.4	518.6	521.6	524.5
165°	518.6	518.6	518.6	519.4	519.4	518.6	518.6	520.1	521.6	523.8	526.0
167.5°	523.1	523.1	522.3	523.1	522.3	522.3	521.6	522.3	523.1	525.3	526.7
170°	526.7	526.0	526.0	526.0	525.3	524.5	524.5	524.5	524.5	526.0	527.5
172.5°	529.7	528.9	528.2	528.2	526.7	526.0	526.0	525.3	525.3	526.0	526.7
175°	530.4	529.7	528.9	528.9	527.5	526.7	526.0	526.0	525.3	526.0	526.7
177.5°	531.9	531.2	529.7	529.7	528.2	526.7	526.7	526.0	525.3	526.0	526.0
180°	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
2.5°	295.4	295.4	294.7	293.9	293.9	293.2	292.5	291.7	291.0	290.3
5°	295.4	294.7	293.9	293.9	293.2	293.2	293.2	292.5	291.7	291.7
7.5°	295.4	295.4	294.7	293.9	293.9	293.9	293.9	293.9	293.2	293.2
10°	295.4	294.7	294.7	294.7	293.9	294.7	294.7	293.9	293.9	293.2
12.5°	294.7	294.7	294.7	294.7	294.7	294.7	294.7	294.7	294.7	293.9
15°	293.2	293.9	293.9	294.7	294.7	294.7	295.4	295.4	294.7	294.7
17.5°	292.5	293.2	293.9	294.7	294.7	294.7	295.4	295.4	295.4	295.4
20°	291.0	291.7	292.5	293.2	293.2	293.9	293.9	294.7	294.7	294.7
22.5°	288.0	288.8	290.3	291.0	291.7	292.5	293.2	293.2	293.2	293.2
25°	285.1	286.6	287.3	288.8	289.5	290.3	291.0	291.0	291.0	291.7
27.5°	281.4	282.9	285.1	285.8	286.6	287.3	288.0	288.8	288.8	288.8
30°	277.0	279.2	280.7	282.2	282.9	283.6	284.4	284.4	285.1	285.1
32.5°	271.8	274.0	275.5	277.0	277.7	278.5	279.9	279.9	280.7	280.7
35°	265.2	267.4	269.6	271.1	271.8	272.6	274.0	274.8	274.8	274.8
37.5°	258.6	260.8	263.0	265.2	265.9	266.7	268.2	268.2	268.9	268.9
40°	250.5	252.7	254.9	257.1	257.1	258.6	259.3	260.1	260.8	260.8
42.5°	242.4	244.6	246.1	248.3	249.0	249.7	250.5	251.9	251.9	252.7
45°	232.8	235.0	236.5	238.7	239.4	240.2	241.6	242.4	243.1	243.1
47.5°	222.5	224.0	225.4	227.6	229.1	229.8	230.6	231.3	232.1	231.3
50°	210.7	212.2	214.4	216.6	217.3	218.1	219.5	219.5	220.3	220.3
52.5°	198.2	200.4	201.9	204.1	204.8	205.5	207.0	207.0	207.7	207.7
55°	184.2	185.6	187.1	190.8	191.5	192.3	193.8	193.8	194.5	195.2
57.5°	170.9	171.6	173.9	175.3	176.8	176.8	177.5	178.3	179.0	179.0
60°	156.9	157.7	159.1	161.3	161.3	162.1	163.5	163.5	164.3	164.3
62.5°	142.2	143.7	145.1	147.3	146.6	147.3	148.8	148.8	149.5	149.5
65°	127.4	128.2	129.7	131.1	131.9	131.9	132.6	133.3	134.1	134.1
67.5°	112.0	113.5	114.2	116.4	115.7	116.4	117.1	117.1	117.9	117.9
70°	97.2	98.0	99.5	100.2	100.2	100.9	101.7	101.7	101.7	102.4
72.5°	82.5	83.2	84.0	84.7	84.7	85.5	86.2	86.2	86.9	86.9
75°	67.0	68.5	69.2	70.7	70.0	70.7	72.2	72.2	72.2	72.2
77.5°	53.8	54.5	56.0	56.7	56.7	56.7	58.2	57.5	58.2	58.2
80°	40.5	41.3	42.7	43.5	43.5	44.2	44.9	44.9	44.9	45.7
82.5°	28.7	30.2	31.7	32.4	32.4	33.2	33.9	33.9	34.6	34.6
85°	19.9	21.4	22.8	22.8	23.6	24.3	25.0	25.0	25.0	25.0
87.5°	13.3	14.0	14.7	15.5	16.2	16.2	16.9	16.9	17.7	17.7
90°	7.4	8.1	8.8	9.6	9.6	10.3	10.3	11.1	11.1	11.1
92.5°	10.3	10.3	11.1	11.8	11.8	11.8	11.8	12.5	12.5	12.5
95°	22.1	22.8	22.8	24.3	24.3	24.3	25.0	25.0	25.0	25.0
97.5°	42.7	42.7	42.7	44.2	44.2	44.2	44.9	44.9	44.9	45.7
100°	67.0	67.8	67.8	70.0	69.2	70.7	70.7	70.7	70.7	71.5
102.5°	94.3	95.8	96.5	98.7	98.7	98.7	100.2	99.5	100.2	100.2
105°	123.8	125.2	126.0	128.2	129.7	129.7	131.1	130.4	131.1	131.9
107.5°	153.2	155.4	156.9	159.1	160.6	161.3	161.3	162.1	162.8	163.5
110°	183.4	185.6	189.3	191.5	192.3	193.8	194.5	195.2	196.0	197.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	215.1	217.3	220.3	223.2	222.5	224.7	226.2	226.9	227.6	226.9
115°	243.8	246.8	249.7	252.7	252.7	254.2	257.1	257.8	257.8	259.3
117.5°	271.1	274.8	277.7	280.7	281.4	282.9	285.1	287.3	287.3	288.8
120°	297.6	302.0	305.0	307.9	309.4	310.1	312.4	315.3	315.3	315.3
122.5°	322.7	326.4	330.0	333.0	334.5	335.9	337.4	341.1	341.1	342.6
125°	346.2	350.7	354.3	357.3	358.8	360.2	363.2	365.4	366.1	366.1
127.5°	368.3	372.8	376.4	380.1	380.9	382.3	385.3	388.2	389.0	389.7
130°	389.0	393.4	397.1	400.8	402.2	403.0	406.7	408.9	410.3	411.1
132.5°	407.4	411.8	415.5	419.2	420.7	422.1	424.3	428.0	428.8	428.8
135°	424.3	428.8	432.4	436.9	437.6	439.1	442.0	444.2	445.7	446.4
137.5°	439.8	444.2	448.6	452.3	453.8	454.5	457.5	460.4	461.9	462.6
140°	453.8	458.2	462.6	465.6	466.3	468.5	470.7	473.7	475.2	475.9
142.5°	467.1	470.7	474.4	478.1	478.9	480.3	482.5	485.5	487.0	487.7
145°	478.9	482.5	485.5	488.4	489.2	490.6	492.8	495.1	496.5	497.3
147.5°	489.9	492.8	495.8	498.0	498.7	500.2	501.7	503.2	504.6	505.4
150°	499.5	501.0	503.9	505.4	506.1	507.6	509.1	510.5	512.0	512.7
152.5°	506.8	509.1	510.5	512.7	513.5	514.2	515.7	517.2	518.6	518.6
155°	512.7	514.9	516.4	518.6	519.4	520.1	521.6	522.3	523.8	523.8
157.5°	517.2	519.4	520.8	522.3	523.1	523.8	524.5	526.0	527.5	527.5
160°	522.3	523.1	523.8	525.3	525.3	526.0	526.7	527.5	528.9	528.9
162.5°	526.7	527.5	526.0	526.7	526.0	526.7	527.5	528.2	528.9	528.9
165°	528.2	529.7	528.9	529.7	529.7	529.7	529.7	530.4	530.4	530.4
167.5°	528.2	529.7	528.9	528.9	529.7	529.7	530.4	531.2	531.2	531.2
170°	528.2	528.9	528.2	527.5	528.2	528.2	528.2	528.9	528.9	528.9
172.5°	527.5	528.2	526.7	526.0	526.0	526.0	525.3	525.3	524.5	524.5
175°	526.7	526.7	525.3	524.5	524.5	524.5	523.1	522.3	521.6	520.8
177.5°	526.0	526.0	523.8	523.1	523.1	522.3	522.3	520.8	520.8	520.1
180°	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5

(END OF REPORT)