

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: P393808

Luminaire Tested: **I3-FL-40L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393808
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-40L830-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
4000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

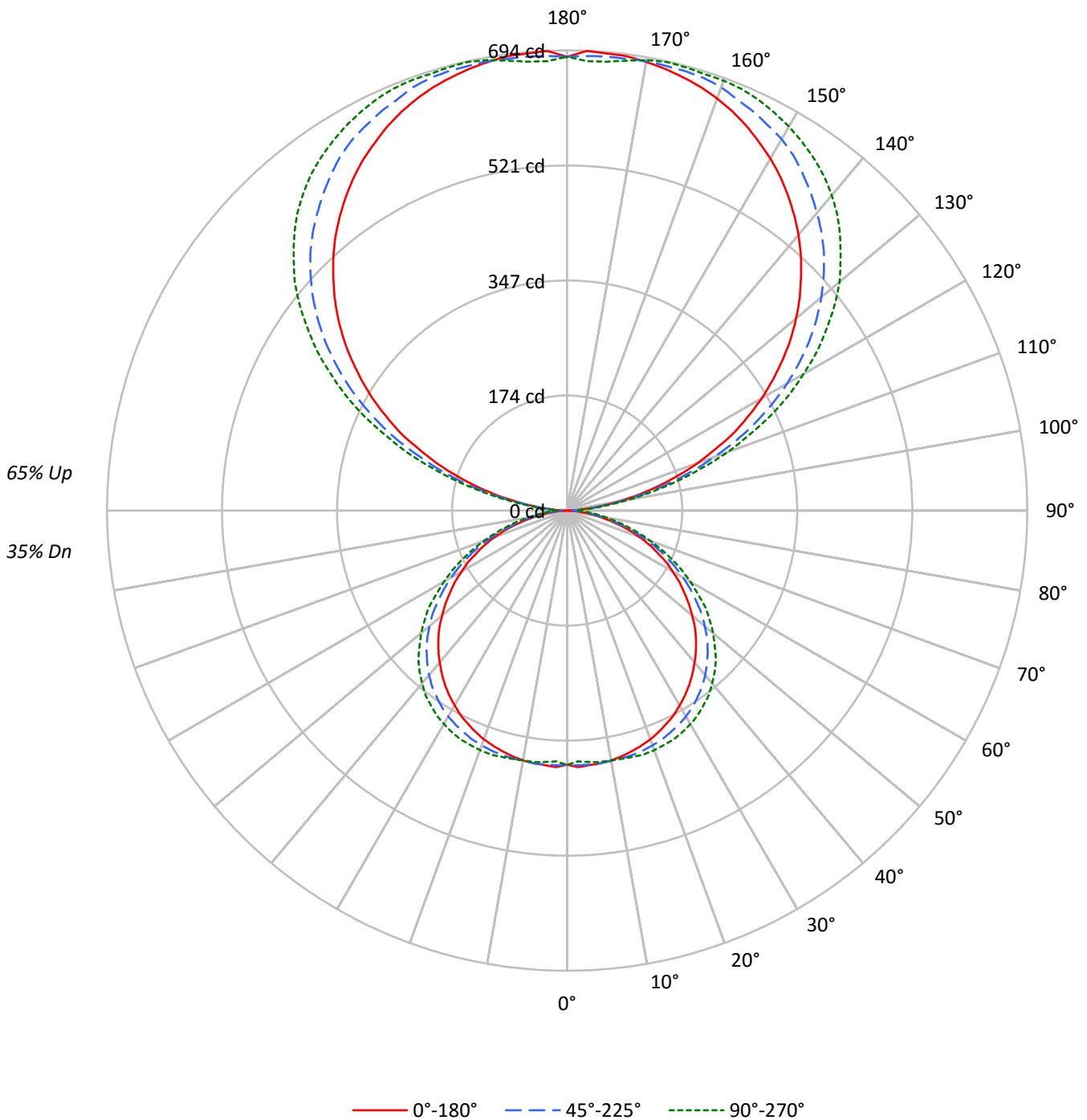
Lumens per Lamp: N/A
Luminaire Lumens: 3524.1 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 28
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°	2107	2107	2107
5°	2119	2073	2040
10°	2119	2044	2016
15°	2114	2027	2008
20°	2114	2009	2005
25°	2109	1991	1998
30°	2101	1973	1979
35°	2092	1941	1950
40°	2071	1900	1907
45°	2049	1841	1849
50°	2002	1760	1758
55°	1945	1649	1654
60°	1880	1519	1494
65°	1787	1361	1326
70°	1659	1160	1121
75°	1444	922	891
80°	1127	655	653
85°	611	375	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	1.0
10°-20°	107.5	3.1
20°-30°	169.6	4.8
30°-40°	213.1	6.0
40°-50°	229.1	6.5
50°-60°	210.8	6.0
60°-70°	161.5	4.6
70°-80°	92.0	2.6
80°-90°	28.7	0.8
90°-100°	38.4	1.1
100°-110°	167.0	4.7
110°-120°	305.7	8.7
120°-130°	394.1	11.2
130°-140°	419.4	11.9
140°-150°	385.8	10.9
150°-160°	305.7	8.7
160°-170°	193.6	5.5
170°-180°	65.5	1.9
0°-30°	313.6	8.9
0°-40°	526.8	14.9
0°-60°	966.7	27.4
0°-90°	1248.8	35.4
90°-120°	511.2	14.5
90°-150°	1710.5	48.5
90°-180°	2275.0	64.6
0°-180°	3524.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	383	383	383	383	383	
5°	385	382	384	382	381	37
15°	376	374	382	384	384	106
25°	355	356	369	378	381	164
35°	321	325	343	355	358	201
45°	275	282	300	312	317	212
55°	215	224	237	250	255	193
65°	150	155	164	172	175	149
75°	79	81	86	91	94	83
85°	14	18	24	31	33	18
90°	1	3	9	12	14	2
95°	26	25	28	32	33	32
105°	141	148	160	169	172	150
115°	278	290	313	330	338	272
125°	397	414	446	468	478	354
135°	499	515	548	571	582	385
145°	580	593	620	638	649	363
155°	640	648	664	678	683	295
165°	676	676	686	691	692	191
175°	692	687	687	684	679	66
180°	684	684	684	684	684	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	383.4	383.4	383.4	383.4	383.4	383.4	383.4	383.4	383.4	383.4	383.4
2.5°	387.3	386.3	385.4	383.4	383.4	382.5	382.5	382.5	382.5	383.4	384.4
5°	385.4	385.4	384.4	382.5	382.5	381.5	381.5	382.5	381.5	382.5	384.4
7.5°	384.4	384.4	383.4	381.5	381.5	381.5	381.5	381.5	381.5	382.5	384.4
10°	382.5	382.5	380.6	379.6	379.6	379.6	379.6	380.6	380.6	381.5	383.4
12.5°	379.6	378.6	377.7	376.7	376.7	376.7	377.7	378.6	378.6	380.6	382.5
15°	375.8	375.8	374.8	373.8	373.8	373.8	374.8	375.8	376.7	378.6	381.5
17.5°	371.9	371.9	370.9	370.9	370.9	370.9	371.9	372.9	374.8	376.7	379.6
20°	367.1	367.1	366.1	366.1	366.1	367.1	367.1	369.0	370.9	373.8	376.7
22.5°	361.3	361.3	361.3	360.4	361.3	362.3	363.3	365.2	367.1	370.0	373.8
25°	354.6	354.6	354.6	354.6	355.6	355.6	357.5	359.4	361.3	365.2	369.0
27.5°	347.9	347.9	347.9	346.9	348.8	349.8	350.8	353.6	355.6	360.4	364.2
30°	339.2	339.2	339.2	340.2	341.2	342.1	344.0	346.9	348.8	353.6	358.5
32.5°	330.6	330.6	330.6	330.6	333.5	334.4	335.4	338.3	342.1	346.9	351.7
35°	321.0	321.0	321.0	321.9	323.9	324.8	326.7	329.6	333.5	338.3	343.1
37.5°	310.4	311.4	311.4	312.3	314.2	316.2	318.1	321.0	324.8	329.6	334.4
40°	298.9	299.8	299.8	300.8	302.7	304.6	306.6	310.4	314.2	319.1	323.9
42.5°	287.3	288.3	288.3	290.2	292.1	294.1	296.0	299.8	303.7	308.5	312.3
45°	274.8	275.8	275.8	277.7	280.6	281.6	284.5	288.3	292.1	296.0	299.8
47.5°	261.4	262.4	262.4	264.3	267.2	269.1	271.0	274.8	277.7	282.5	286.4
50°	246.0	247.0	247.9	249.9	253.7	255.6	257.5	260.4	264.3	267.2	271.0
52.5°	231.6	231.6	232.6	234.5	237.4	239.3	240.2	243.1	247.9	251.8	255.6
55°	215.3	216.2	217.2	219.1	222.0	223.9	224.9	227.8	230.6	233.5	237.4
57.5°	200.8	200.8	201.8	203.7	206.6	207.6	208.5	210.5	214.3	217.2	220.1
60°	183.6	184.5	185.5	187.4	189.3	191.2	191.2	194.1	197.0	199.9	201.8
62.5°	168.2	168.2	169.1	171.1	172.0	173.9	173.9	176.8	178.7	181.6	183.6
65°	149.9	150.9	151.8	152.8	154.7	154.7	155.7	157.6	159.5	161.4	164.3
67.5°	133.6	133.6	134.5	135.5	136.5	136.5	137.4	139.3	141.3	143.2	145.1
70°	115.3	116.3	116.3	116.3	117.2	118.2	119.2	120.1	122.0	123.0	124.9
72.5°	97.1	97.1	98.0	98.0	99.0	99.9	100.9	101.9	102.8	104.7	105.7
75°	78.8	78.8	79.8	79.8	80.7	80.7	80.7	82.6	83.6	85.5	86.5
77.5°	60.5	61.5	61.5	61.5	62.5	63.4	63.4	64.4	66.3	67.3	68.2
80°	44.2	44.2	44.2	44.2	45.2	46.1	47.1	47.1	49.0	50.9	51.9
82.5°	27.9	27.9	28.8	29.8	29.8	30.8	31.7	32.7	34.6	35.6	36.5
85°	14.4	14.4	15.4	16.3	17.3	18.3	18.3	19.2	21.1	23.1	24.0
87.5°	4.8	5.8	5.8	6.7	7.7	8.6	9.6	10.6	12.5	14.4	15.4
90°	1.0	1.0	1.0	1.9	2.9	2.9	3.8	4.8	5.8	6.7	8.6
92.5°	8.6	8.6	7.7	8.6	8.6	8.6	8.6	9.6	10.6	10.6	12.5
95°	25.9	25.0	25.0	25.0	25.0	25.0	25.0	25.9	26.9	26.9	27.9
97.5°	50.0	50.0	49.0	49.0	50.0	50.0	50.0	50.9	52.9	51.9	53.8
100°	77.8	77.8	76.9	77.8	78.8	79.8	81.7	81.7	83.6	83.6	86.5
102.5°	109.6	109.6	108.6	110.5	111.5	113.4	113.4	115.3	118.2	118.2	122.0
105°	141.3	142.2	142.2	144.1	146.1	148.0	148.0	150.9	154.7	154.7	159.5
107.5°	175.9	176.8	176.8	178.7	180.7	182.6	183.6	187.4	191.2	192.2	198.0
110°	209.5	210.5	211.4	213.3	215.3	218.1	220.1	223.9	228.7	230.6	235.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	241.2	245.1	246.0	248.9	251.8	254.7	256.6	261.4	267.2	270.0	275.8
115°	277.7	279.7	280.6	283.5	287.3	290.2	292.1	296.9	302.7	306.6	313.3
117.5°	307.5	312.3	313.3	316.2	320.0	322.9	324.8	330.6	337.3	342.1	348.8
120°	339.2	343.1	346.9	348.8	351.7	355.6	357.5	363.3	370.9	375.8	383.4
122.5°	368.1	371.9	375.8	378.6	382.5	384.4	387.3	394.0	401.7	407.5	415.2
125°	396.9	401.7	404.6	407.5	412.3	414.2	417.1	423.8	431.5	438.2	445.9
127.5°	424.8	427.6	432.4	434.4	439.2	441.1	444.0	451.7	459.4	466.1	473.8
130°	450.7	454.6	458.4	459.4	465.1	468.0	470.9	477.6	486.3	493.0	500.7
132.5°	475.7	477.6	482.4	485.3	490.1	493.0	495.9	501.6	510.3	517.0	524.7
135°	498.8	500.7	506.4	509.3	512.2	515.1	518.9	524.7	533.4	540.1	547.8
137.5°	521.8	523.7	529.5	532.4	534.3	537.2	540.1	545.8	554.5	561.2	568.0
140°	543.0	544.9	548.7	552.6	554.5	556.4	559.3	565.1	572.8	579.5	586.2
142.5°	562.2	564.1	568.0	571.8	574.7	574.7	577.6	582.4	591.0	597.7	603.5
145°	580.4	581.4	585.2	589.1	592.9	592.9	593.9	598.7	606.4	614.1	619.8
147.5°	597.7	598.7	601.6	605.4	608.3	609.3	611.2	613.1	620.8	628.5	635.2
150°	613.1	614.1	616.0	619.8	621.8	623.7	625.6	626.6	632.3	639.1	646.8
152.5°	626.6	627.5	629.5	632.3	634.3	636.2	638.1	641.0	643.9	650.6	655.4
155°	640.0	641.0	641.9	644.8	646.8	647.7	648.7	652.5	655.4	659.2	664.1
157.5°	651.6	651.6	652.5	654.4	656.4	656.4	657.3	661.2	664.1	667.9	670.8
160°	661.2	661.2	662.1	664.1	664.1	665.0	666.0	668.9	670.8	675.6	679.4
162.5°	669.8	668.9	669.8	670.8	670.8	670.8	671.7	673.7	676.5	680.4	684.2
165°	676.5	676.5	676.5	677.5	677.5	676.5	676.5	678.5	680.4	683.3	686.2
167.5°	682.3	682.3	681.3	682.3	681.3	681.3	680.4	681.3	682.3	685.2	687.1
170°	687.1	686.2	686.2	686.2	685.2	684.2	684.2	684.2	684.2	686.2	688.1
172.5°	691.0	690.0	689.0	689.0	687.1	686.2	686.2	685.2	685.2	686.2	687.1
175°	691.9	691.0	690.0	690.0	688.1	687.1	686.2	686.2	685.2	686.2	687.1
177.5°	693.8	692.9	691.0	691.0	689.0	687.1	687.1	686.2	685.2	686.2	686.2
180°	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	383.4	383.4	383.4	383.4	383.4	383.4	383.4	383.4	383.4	383.4
2.5°	385.4	385.4	384.4	383.4	383.4	382.5	381.5	380.6	379.6	378.6
5°	385.4	384.4	383.4	383.4	382.5	382.5	382.5	381.5	380.6	380.6
7.5°	385.4	385.4	384.4	383.4	383.4	383.4	383.4	383.4	382.5	382.5
10°	385.4	384.4	384.4	384.4	383.4	384.4	384.4	383.4	383.4	382.5
12.5°	384.4	384.4	384.4	384.4	384.4	384.4	384.4	384.4	384.4	383.4
15°	382.5	383.4	383.4	384.4	384.4	384.4	385.4	385.4	384.4	384.4
17.5°	381.5	382.5	383.4	384.4	384.4	384.4	385.4	385.4	385.4	385.4
20°	379.6	380.6	381.5	382.5	382.5	383.4	383.4	384.4	384.4	384.4
22.5°	375.8	376.7	378.6	379.6	380.6	381.5	382.5	382.5	382.5	382.5
25°	371.9	373.8	374.8	376.7	377.7	378.6	379.6	379.6	379.6	380.6
27.5°	367.1	369.0	371.9	372.9	373.8	374.8	375.8	376.7	376.7	376.7
30°	361.3	364.2	366.1	368.1	369.0	370.0	370.9	370.9	371.9	371.9
32.5°	354.6	357.5	359.4	361.3	362.3	363.3	365.2	365.2	366.1	366.1
35°	346.0	348.8	351.7	353.6	354.6	355.6	357.5	358.5	358.5	358.5
37.5°	337.3	340.2	343.1	346.0	346.9	347.9	349.8	349.8	350.8	350.8
40°	326.7	329.6	332.5	335.4	335.4	337.3	338.3	339.2	340.2	340.2
42.5°	316.2	319.1	321.0	323.9	324.8	325.8	326.7	328.7	328.7	329.6
45°	303.7	306.6	308.5	311.4	312.3	313.3	315.2	316.2	317.1	317.1
47.5°	290.2	292.1	294.1	296.9	298.9	299.8	300.8	301.8	302.7	301.8
50°	274.8	276.8	279.7	282.5	283.5	284.5	286.4	286.4	287.3	287.3
52.5°	258.5	261.4	263.3	266.2	267.2	268.1	270.0	270.0	271.0	271.0
55°	240.2	242.2	244.1	248.9	249.9	250.8	252.7	252.7	253.7	254.7
57.5°	223.0	223.9	226.8	228.7	230.6	230.6	231.6	232.6	233.5	233.5
60°	204.7	205.7	207.6	210.5	210.5	211.4	213.3	213.3	214.3	214.3
62.5°	185.5	187.4	189.3	192.2	191.2	192.2	194.1	194.1	195.1	195.1
65°	166.3	167.2	169.1	171.1	172.0	172.0	173.0	173.9	174.9	174.9
67.5°	146.1	148.0	149.0	151.8	150.9	151.8	152.8	152.8	153.8	153.8
70°	126.9	127.8	129.7	130.7	130.7	131.7	132.6	132.6	132.6	133.6
72.5°	107.6	108.6	109.6	110.5	110.5	111.5	112.4	112.4	113.4	113.4
75°	87.5	89.4	90.3	92.3	91.3	92.3	94.2	94.2	94.2	94.2
77.5°	70.2	71.1	73.0	74.0	74.0	74.0	75.9	75.0	75.9	75.9
80°	52.9	53.8	55.7	56.7	56.7	57.7	58.6	58.6	58.6	59.6
82.5°	37.5	39.4	41.3	42.3	42.3	43.2	44.2	44.2	45.2	45.2
85°	25.9	27.9	29.8	29.8	30.8	31.7	32.7	32.7	32.7	32.7
87.5°	17.3	18.3	19.2	20.2	21.1	21.1	22.1	22.1	23.1	23.1
90°	9.6	10.6	11.5	12.5	12.5	13.5	13.5	14.4	14.4	14.4
92.5°	13.5	13.5	14.4	15.4	15.4	15.4	15.4	16.3	16.3	16.3
95°	28.8	29.8	29.8	31.7	31.7	31.7	32.7	32.7	32.7	32.7
97.5°	55.7	55.7	55.7	57.7	57.7	57.7	58.6	58.6	58.6	59.6
100°	87.5	88.4	88.4	91.3	90.3	92.3	92.3	92.3	92.3	93.2
102.5°	123.0	124.9	125.9	128.8	128.8	128.8	130.7	129.7	130.7	130.7
105°	161.4	163.4	164.3	167.2	169.1	169.1	171.1	170.1	171.1	172.0
107.5°	199.9	202.8	204.7	207.6	209.5	210.5	210.5	211.4	212.4	213.3
110°	239.3	242.2	247.0	249.9	250.8	252.7	253.7	254.7	255.6	257.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	280.6	283.5	287.3	291.2	290.2	293.1	295.0	296.0	296.9	296.0
115°	318.1	321.9	325.8	329.6	329.6	331.5	335.4	336.3	336.3	338.3
117.5°	353.6	358.5	362.3	366.1	367.1	369.0	371.9	374.8	374.8	376.7
120°	388.2	394.0	397.9	401.7	403.6	404.6	407.5	411.3	411.3	411.3
122.5°	420.9	425.7	430.5	434.4	436.3	438.2	440.1	444.9	444.9	446.9
125°	451.7	457.4	462.2	466.1	468.0	469.9	473.8	476.7	477.6	477.6
127.5°	480.5	486.3	491.1	495.9	496.8	498.8	502.6	506.4	507.4	508.4
130°	507.4	513.2	518.0	522.8	524.7	525.7	530.5	533.4	535.3	536.2
132.5°	531.4	537.2	542.0	546.8	548.7	550.7	553.5	558.3	559.3	559.3
135°	553.5	559.3	564.1	569.9	570.8	572.8	576.6	579.5	581.4	582.4
137.5°	573.7	579.5	585.2	590.1	592.0	592.9	596.8	600.6	602.5	603.5
140°	592.0	597.7	603.5	607.4	608.3	611.2	614.1	617.9	619.8	620.8
142.5°	609.3	614.1	618.9	623.7	624.6	626.6	629.5	633.3	635.2	636.2
145°	624.6	629.5	633.3	637.1	638.1	640.0	642.9	645.8	647.7	648.7
147.5°	639.1	642.9	646.8	649.6	650.6	652.5	654.4	656.4	658.3	659.2
150°	651.6	653.5	657.3	659.2	660.2	662.1	664.1	666.0	667.9	668.9
152.5°	661.2	664.1	666.0	668.9	669.8	670.8	672.7	674.6	676.5	676.5
155°	668.9	671.7	673.7	676.5	677.5	678.5	680.4	681.3	683.3	683.3
157.5°	674.6	677.5	679.4	681.3	682.3	683.3	684.2	686.2	688.1	688.1
160°	681.3	682.3	683.3	685.2	685.2	686.2	687.1	688.1	690.0	690.0
162.5°	687.1	688.1	686.2	687.1	686.2	687.1	688.1	689.0	690.0	690.0
165°	689.0	691.0	690.0	691.0	691.0	691.0	691.0	691.9	691.9	691.9
167.5°	689.0	691.0	690.0	690.0	691.0	691.0	691.9	692.9	692.9	692.9
170°	689.0	690.0	689.0	688.1	689.0	689.0	689.0	690.0	690.0	690.0
172.5°	688.1	689.0	687.1	686.2	686.2	686.2	685.2	685.2	684.2	684.2
175°	687.1	687.1	685.2	684.2	684.2	684.2	682.3	681.3	680.4	679.4
177.5°	686.2	686.2	683.3	682.3	682.3	681.3	681.3	679.4	679.4	678.5
180°	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2	684.2

(END OF REPORT)