

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: P393810

Luminaire Tested: **I3-FL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393810
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-40L840-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
4000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

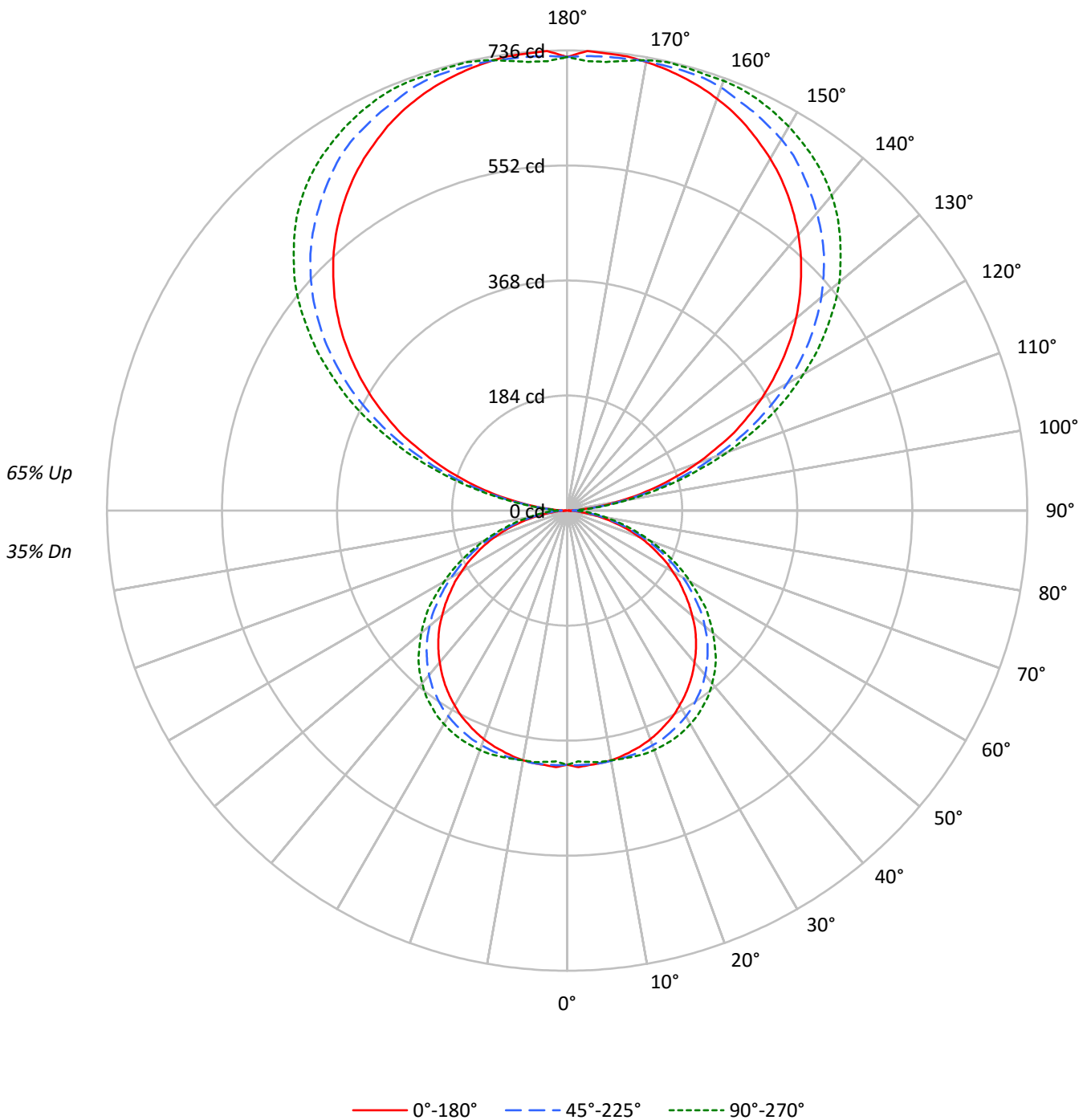
Lumens per Lamp: N/A
Luminaire Lumens: 3736.7 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): 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°	2235	2235	2235
5°	2246	2198	2163
10°	2247	2168	2138
15°	2241	2149	2129
20°	2242	2130	2126
25°	2236	2111	2118
30°	2228	2091	2099
35°	2217	2058	2068
40°	2195	2015	2022
45°	2173	1952	1961
50°	2123	1866	1865
55°	2062	1748	1753
60°	1992	1611	1583
65°	1895	1443	1407
70°	1760	1231	1188
75°	1532	978	945
80°	1196	694	692
85°	649	398	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.0
10°-20°	114.0	3.1
20°-30°	179.8	4.8
30°-40°	226.0	6.0
40°-50°	243.0	6.5
50°-60°	223.5	6.0
60°-70°	171.2	4.6
70°-80°	97.5	2.6
80°-90°	30.4	0.8
90°-100°	40.7	1.1
100°-110°	177.1	4.7
110°-120°	324.2	8.7
120°-130°	417.9	11.2
130°-140°	444.7	11.9
140°-150°	409.1	10.9
150°-160°	324.1	8.7
160°-170°	205.2	5.5
170°-180°	69.5	1.9
0°-30°	332.6	8.9
0°-40°	558.6	14.9
0°-60°	1025.0	27.4
0°-90°	1324.2	35.4
90°-120°	542.0	14.5
90°-150°	1813.7	48.5
90°-180°	2413.0	64.6
0°-180°	3736.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	409	404	408	406	404	39
15°	398	396	404	408	408	113
25°	376	377	391	400	404	173
35°	340	344	364	376	380	213
45°	291	299	318	331	336	224
55°	228	237	252	265	270	205
65°	159	164	174	182	186	158
75°	84	86	92	97	100	88
85°	15	19	26	33	35	19
90°	1	3	9	13	15	2
95°	28	26	30	34	35	34
105°	150	157	169	179	182	159
115°	294	308	332	350	359	289
125°	421	439	473	496	506	376
135°	529	546	581	605	618	408
145°	616	629	657	677	688	385
155°	679	687	704	718	724	313
165°	717	717	728	733	734	203
175°	734	729	729	726	720	70
180°	726	726	726	726	726	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	406.6	406.6	406.6	406.6	406.6	406.6	406.6	406.6	406.6	406.6	406.6
2.5°	410.7	409.6	408.6	406.6	406.6	405.6	405.6	405.6	405.6	406.6	407.6
5°	408.6	408.6	407.6	405.6	405.6	404.5	404.5	405.6	404.5	405.6	407.6
7.5°	407.6	407.6	406.6	404.5	404.5	404.5	404.5	404.5	404.5	405.6	407.6
10°	405.6	405.6	403.5	402.5	402.5	402.5	402.5	403.5	403.5	404.5	406.6
12.5°	402.5	401.5	400.5	399.4	399.4	399.4	400.5	401.5	401.5	403.5	405.6
15°	398.4	398.4	397.4	396.4	396.4	396.4	397.4	398.4	399.4	401.5	404.5
17.5°	394.4	394.4	393.3	393.3	393.3	393.3	394.4	395.4	397.4	399.4	402.5
20°	389.3	389.3	388.2	388.2	388.2	389.3	389.3	391.3	393.3	396.4	399.4
22.5°	383.1	383.1	383.1	382.1	383.1	384.2	385.2	387.2	389.3	392.3	396.4
25°	376.0	376.0	376.0	376.0	377.0	377.0	379.1	381.1	383.1	387.2	391.3
27.5°	368.9	368.9	368.9	367.9	369.9	370.9	371.9	375.0	377.0	382.1	386.2
30°	359.7	359.7	359.7	360.7	361.7	362.8	364.8	367.9	369.9	375.0	380.1
32.5°	350.5	350.5	350.5	350.5	353.6	354.6	355.6	358.7	362.8	367.9	373.0
35°	340.3	340.3	340.3	341.4	343.4	344.4	346.5	349.5	353.6	358.7	363.8
37.5°	329.1	330.2	330.2	331.2	333.2	335.3	337.3	340.3	344.4	349.5	354.6
40°	316.9	317.9	317.9	318.9	321.0	323.0	325.1	329.1	333.2	338.3	343.4
42.5°	304.7	305.7	305.7	307.7	309.8	311.8	313.9	317.9	322.0	327.1	331.2
45°	291.4	292.5	292.5	294.5	297.5	298.6	301.6	305.7	309.8	313.9	317.9
47.5°	277.2	278.2	278.2	280.2	283.3	285.3	287.4	291.4	294.5	299.6	303.7
50°	260.9	261.9	262.9	264.9	269.0	271.1	273.1	276.1	280.2	283.3	287.4
52.5°	245.6	245.6	246.6	248.6	251.7	253.7	254.7	257.8	262.9	267.0	271.1
55°	228.3	229.3	230.3	232.3	235.4	237.4	238.4	241.5	244.6	247.6	251.7
57.5°	213.0	213.0	214.0	216.0	219.1	220.1	221.1	223.2	227.2	230.3	233.4
60°	194.6	195.6	196.7	198.7	200.7	202.8	202.8	205.8	208.9	212.0	214.0
62.5°	178.3	178.3	179.3	181.4	182.4	184.4	184.4	187.5	189.5	192.6	194.6
65°	159.0	160.0	161.0	162.0	164.1	164.1	165.1	167.1	169.2	171.2	174.2
67.5°	141.6	141.6	142.7	143.7	144.7	144.7	145.7	147.8	149.8	151.8	153.9
70°	122.3	123.3	123.3	123.3	124.3	125.3	126.4	127.4	129.4	130.4	132.5
72.5°	102.9	102.9	103.9	103.9	105.0	106.0	107.0	108.0	109.0	111.1	112.1
75°	83.6	83.6	84.6	84.6	85.6	85.6	85.6	87.6	88.7	90.7	91.7
77.5°	64.2	65.2	65.2	65.2	66.2	67.3	67.3	68.3	70.3	71.3	72.3
80°	46.9	46.9	46.9	46.9	47.9	48.9	49.9	49.9	52.0	54.0	55.0
82.5°	29.6	29.6	30.6	31.6	31.6	32.6	33.6	34.6	36.7	37.7	38.7
85°	15.3	15.3	16.3	17.3	18.3	19.4	19.4	20.4	22.4	24.5	25.5
87.5°	5.1	6.1	6.1	7.1	8.2	9.2	10.2	11.2	13.2	15.3	16.3
90°	1.0	1.0	1.0	2.0	3.1	3.1	4.1	5.1	6.1	7.1	9.2
92.5°	9.2	9.2	8.2	9.2	9.2	9.2	9.2	10.2	11.2	11.2	13.2
95°	27.5	26.5	26.5	26.5	26.5	26.5	26.5	27.5	28.5	28.5	29.6
97.5°	53.0	53.0	52.0	52.0	53.0	53.0	53.0	54.0	56.0	55.0	57.1
100°	82.5	82.5	81.5	82.5	83.6	84.6	86.6	86.6	88.7	88.7	91.7
102.5°	116.2	116.2	115.1	117.2	118.2	120.2	120.2	122.3	125.3	125.3	129.4
105°	149.8	150.8	150.8	152.8	154.9	156.9	156.9	160.0	164.1	164.1	169.2
107.5°	186.5	187.5	187.5	189.5	191.6	193.6	194.6	198.7	202.8	203.8	209.9
110°	222.1	223.2	224.2	226.2	228.3	231.3	233.4	237.4	242.5	244.6	249.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	255.8	259.8	260.9	263.9	267.0	270.0	272.1	277.2	283.3	286.3	292.5
115°	294.5	296.5	297.5	300.6	304.7	307.7	309.8	314.9	321.0	325.1	332.2
117.5°	326.1	331.2	332.2	335.3	339.3	342.4	344.4	350.5	357.7	362.8	369.9
120°	359.7	363.8	367.9	369.9	373.0	377.0	379.1	385.2	393.3	398.4	406.6
122.5°	390.3	394.4	398.4	401.5	405.6	407.6	410.7	417.8	425.9	432.1	440.2
125°	420.8	425.9	429.0	432.1	437.2	439.2	442.2	449.4	457.5	464.7	472.8
127.5°	450.4	453.5	458.5	460.6	465.7	467.7	470.8	478.9	487.1	494.2	502.4
130°	477.9	482.0	486.1	487.1	493.2	496.3	499.3	506.4	515.6	522.7	530.9
132.5°	504.4	506.4	511.5	514.6	519.7	522.7	525.8	531.9	541.1	548.2	556.4
135°	528.9	530.9	537.0	540.1	543.1	546.2	550.3	556.4	565.5	572.7	580.8
137.5°	553.3	555.4	561.5	564.5	566.6	569.6	572.7	578.8	588.0	595.1	602.2
140°	575.7	577.8	581.8	585.9	588.0	590.0	593.1	599.2	607.3	614.5	621.6
142.5°	596.1	598.2	602.2	606.3	609.4	609.4	612.4	617.5	626.7	633.8	639.9
145°	615.5	616.5	620.6	624.6	628.7	628.7	629.7	634.8	643.0	651.1	657.3
147.5°	633.8	634.8	637.9	642.0	645.0	646.0	648.1	650.1	658.3	666.4	673.6
150°	650.1	651.1	653.2	657.3	659.3	661.3	663.4	664.4	670.5	677.6	685.8
152.5°	664.4	665.4	667.4	670.5	672.5	674.6	676.6	679.7	682.7	689.9	695.0
155°	678.7	679.7	680.7	683.7	685.8	686.8	687.8	691.9	695.0	699.0	704.1
157.5°	690.9	690.9	691.9	693.9	696.0	696.0	697.0	701.1	704.1	708.2	711.3
160°	701.1	701.1	702.1	704.1	704.1	705.1	706.2	709.2	711.3	716.4	720.4
162.5°	710.2	709.2	710.2	711.3	711.3	711.3	712.3	714.3	717.4	721.5	725.5
165°	717.4	717.4	717.4	718.4	718.4	717.4	717.4	719.4	721.5	724.5	727.6
167.5°	723.5	723.5	722.5	723.5	722.5	722.5	721.5	722.5	723.5	726.5	728.6
170°	728.6	727.6	727.6	727.6	726.5	725.5	725.5	725.5	725.5	727.6	729.6
172.5°	732.7	731.6	730.6	730.6	728.6	727.6	727.6	726.5	726.5	727.6	728.6
175°	733.7	732.7	731.6	731.6	729.6	728.6	727.6	727.6	726.5	727.6	728.6
177.5°	735.7	734.7	732.7	732.7	730.6	728.6	728.6	727.6	726.5	727.6	727.6
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	406.6	406.6	406.6	406.6	406.6	406.6	406.6	406.6	406.6	406.6
2.5°	408.6	408.6	407.6	406.6	406.6	405.6	404.5	403.5	402.5	401.5
5°	408.6	407.6	406.6	406.6	405.6	405.6	405.6	404.5	403.5	403.5
7.5°	408.6	408.6	407.6	406.6	406.6	406.6	406.6	406.6	405.6	405.6
10°	408.6	407.6	407.6	407.6	406.6	407.6	407.6	406.6	406.6	405.6
12.5°	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	406.6
15°	405.6	406.6	406.6	407.6	407.6	407.6	408.6	408.6	407.6	407.6
17.5°	404.5	405.6	406.6	407.6	407.6	407.6	408.6	408.6	408.6	408.6
20°	402.5	403.5	404.5	405.6	405.6	406.6	406.6	407.6	407.6	407.6
22.5°	398.4	399.4	401.5	402.5	403.5	404.5	405.6	405.6	405.6	405.6
25°	394.4	396.4	397.4	399.4	400.5	401.5	402.5	402.5	402.5	403.5
27.5°	389.3	391.3	394.4	395.4	396.4	397.4	398.4	399.4	399.4	399.4
30°	383.1	386.2	388.2	390.3	391.3	392.3	393.3	393.3	394.4	394.4
32.5°	376.0	379.1	381.1	383.1	384.2	385.2	387.2	387.2	388.2	388.2
35°	366.8	369.9	373.0	375.0	376.0	377.0	379.1	380.1	380.1	380.1
37.5°	357.7	360.7	363.8	366.8	367.9	368.9	370.9	370.9	371.9	371.9
40°	346.5	349.5	352.6	355.6	355.6	357.7	358.7	359.7	360.7	360.7
42.5°	335.3	338.3	340.3	343.4	344.4	345.4	346.5	348.5	348.5	349.5
45°	322.0	325.1	327.1	330.2	331.2	332.2	334.2	335.3	336.3	336.3
47.5°	307.7	309.8	311.8	314.9	316.9	317.9	318.9	320.0	321.0	320.0
50°	291.4	293.5	296.5	299.6	300.6	301.6	303.7	303.7	304.7	304.7
52.5°	274.1	277.2	279.2	282.3	283.3	284.3	286.3	286.3	287.4	287.4
55°	254.7	256.8	258.8	263.9	264.9	266.0	268.0	268.0	269.0	270.0
57.5°	236.4	237.4	240.5	242.5	244.6	244.6	245.6	246.6	247.6	247.6
60°	217.0	218.1	220.1	223.2	223.2	224.2	226.2	226.2	227.2	227.2
62.5°	196.7	198.7	200.7	203.8	202.8	203.8	205.8	205.8	206.9	206.9
65°	176.3	177.3	179.3	181.4	182.4	182.4	183.4	184.4	185.5	185.5
67.5°	154.9	156.9	157.9	161.0	160.0	161.0	162.0	162.0	163.0	163.0
70°	134.5	135.5	137.6	138.6	138.6	139.6	140.6	140.6	140.6	141.6
72.5°	114.1	115.1	116.2	117.2	117.2	118.2	119.2	119.2	120.2	120.2
75°	92.7	94.8	95.8	97.8	96.8	97.8	99.9	99.9	99.9	99.9
77.5°	74.4	75.4	77.4	78.5	78.5	78.5	80.5	79.5	80.5	80.5
80°	56.0	57.1	59.1	60.1	60.1	61.1	62.2	62.2	62.2	63.2
82.5°	39.7	41.8	43.8	44.8	44.8	45.9	46.9	46.9	47.9	47.9
85°	27.5	29.6	31.6	31.6	32.6	33.6	34.6	34.6	34.6	34.6
87.5°	18.3	19.4	20.4	21.4	22.4	22.4	23.4	23.4	24.5	24.5
90°	10.2	11.2	12.2	13.2	13.2	14.3	14.3	15.3	15.3	15.3
92.5°	14.3	14.3	15.3	16.3	16.3	16.3	16.3	17.3	17.3	17.3
95°	30.6	31.6	31.6	33.6	33.6	33.6	34.6	34.6	34.6	34.6
97.5°	59.1	59.1	59.1	61.1	61.1	61.1	62.2	62.2	62.2	63.2
100°	92.7	93.7	93.7	96.8	95.8	97.8	97.8	97.8	97.8	98.8
102.5°	130.4	132.5	133.5	136.5	136.5	136.5	138.6	137.6	138.6	138.6
105°	171.2	173.2	174.2	177.3	179.3	179.3	181.4	180.4	181.4	182.4
107.5°	212.0	215.0	217.0	220.1	222.1	223.2	223.2	224.2	225.2	226.2
110°	253.7	256.8	261.9	264.9	266.0	268.0	269.0	270.0	271.1	273.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	297.5	300.6	304.7	308.8	307.7	310.8	312.8	313.9	314.9	313.9
115°	337.3	341.4	345.4	349.5	349.5	351.6	355.6	356.6	356.6	358.7
117.5°	375.0	380.1	384.2	388.2	389.3	391.3	394.4	397.4	397.4	399.4
120°	411.7	417.8	421.9	425.9	428.0	429.0	432.1	436.1	436.1	436.1
122.5°	446.3	451.4	456.5	460.6	462.6	464.7	466.7	471.8	471.8	473.8
125°	478.9	485.0	490.1	494.2	496.3	498.3	502.4	505.4	506.4	506.4
127.5°	509.5	515.6	520.7	525.8	526.8	528.9	532.9	537.0	538.0	539.1
130°	538.0	544.1	549.2	554.3	556.4	557.4	562.5	565.5	567.6	568.6
132.5°	563.5	569.6	574.7	579.8	581.8	583.9	586.9	592.0	593.1	593.1
135°	586.9	593.1	598.2	604.3	605.3	607.3	611.4	614.5	616.5	617.5
137.5°	608.3	614.5	620.6	625.7	627.7	628.7	632.8	636.9	638.9	639.9
140°	627.7	633.8	639.9	644.0	645.0	648.1	651.1	655.2	657.3	658.3
142.5°	646.0	651.1	656.2	661.3	662.3	664.4	667.4	671.5	673.6	674.6
145°	662.3	667.4	671.5	675.6	676.6	678.7	681.7	684.8	686.8	687.8
147.5°	677.6	681.7	685.8	688.8	689.9	691.9	693.9	696.0	698.0	699.0
150°	690.9	692.9	697.0	699.0	700.1	702.1	704.1	706.2	708.2	709.2
152.5°	701.1	704.1	706.2	709.2	710.2	711.3	713.3	715.3	717.4	717.4
155°	709.2	712.3	714.3	717.4	718.4	719.4	721.5	722.5	724.5	724.5
157.5°	715.3	718.4	720.4	722.5	723.5	724.5	725.5	727.6	729.6	729.6
160°	722.5	723.5	724.5	726.5	726.5	727.6	728.6	729.6	731.6	731.6
162.5°	728.6	729.6	727.6	728.6	727.6	728.6	729.6	730.6	731.6	731.6
165°	730.6	732.7	731.6	732.7	732.7	732.7	732.7	733.7	733.7	733.7
167.5°	730.6	732.7	731.6	731.6	732.7	732.7	733.7	734.7	734.7	734.7
170°	730.6	731.6	730.6	729.6	730.6	730.6	730.6	731.6	731.6	731.6
172.5°	729.6	730.6	728.6	727.6	727.6	727.6	726.5	726.5	725.5	725.5
175°	728.6	728.6	726.5	725.5	725.5	725.5	723.5	722.5	721.5	720.4
177.5°	727.6	727.6	724.5	723.5	723.5	722.5	722.5	720.4	720.4	719.4
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5

(END OF REPORT)