

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: P393807

Luminaire Tested: **I3-FL-30L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393807
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-30L840-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
3000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

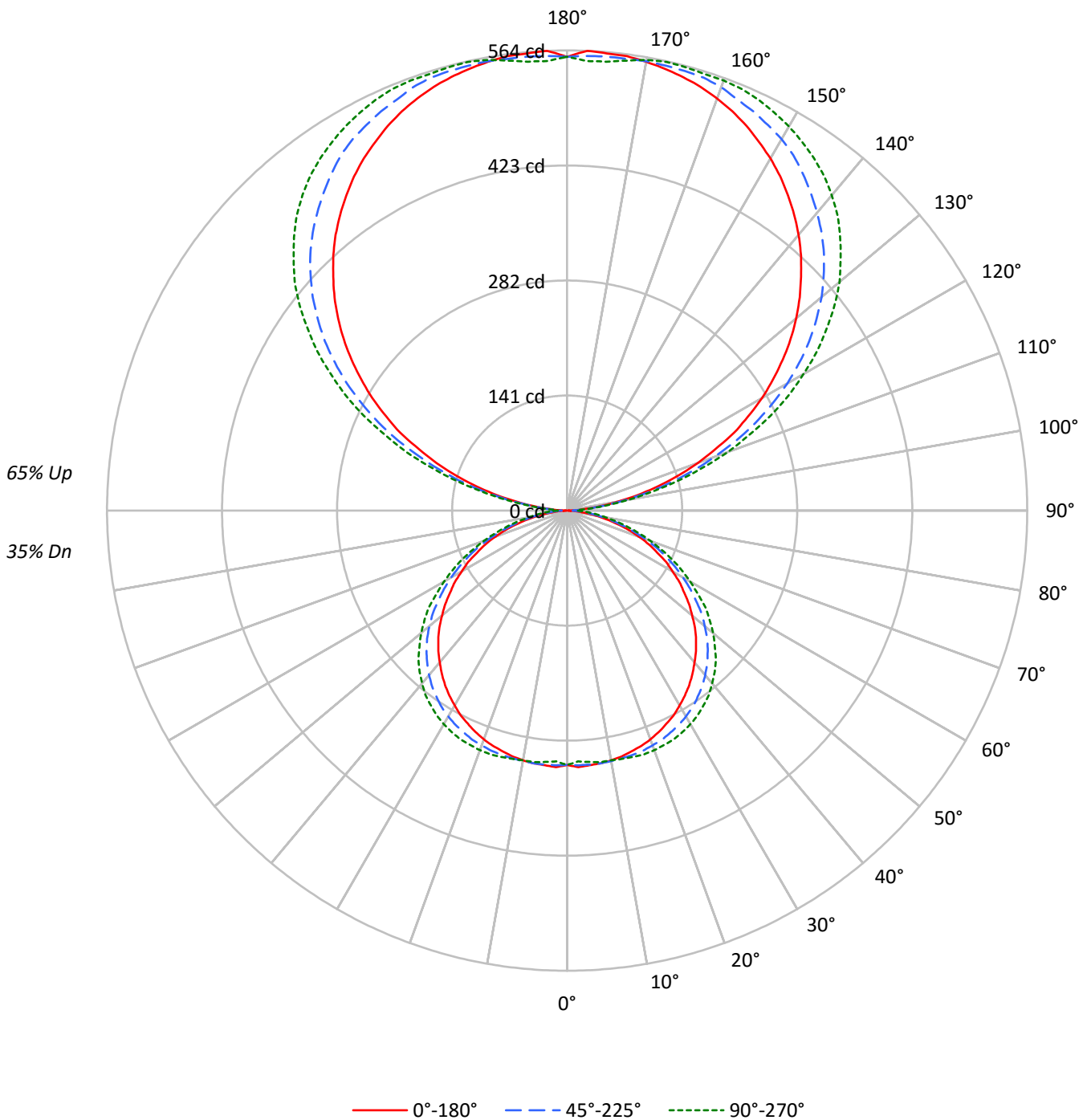
Lumens per Lamp: N/A
Luminaire Lumens: 2864.6 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (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°	1713	1713	1713
5°	1722	1685	1658
10°	1722	1662	1639
15°	1718	1647	1632
20°	1719	1633	1630
25°	1714	1619	1623
30°	1708	1603	1609
35°	1700	1578	1585
40°	1683	1544	1550
45°	1666	1497	1503
50°	1628	1431	1430
55°	1581	1340	1344
60°	1528	1235	1214
65°	1453	1107	1078
70°	1348	944	911
75°	1175	749	725
80°	915	533	530
85°	496	305	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.0
10°-20°	87.4	3.1
20°-30°	137.8	4.8
30°-40°	173.2	6.0
40°-50°	186.3	6.5
50°-60°	171.3	6.0
60°-70°	131.3	4.6
70°-80°	74.7	2.6
80°-90°	23.3	0.8
90°-100°	31.2	1.1
100°-110°	135.8	4.7
110°-120°	248.5	8.7
120°-130°	320.4	11.2
130°-140°	340.9	11.9
140°-150°	313.6	10.9
150°-160°	248.5	8.7
160°-170°	157.3	5.5
170°-180°	53.3	1.9
0°-30°	255.0	8.9
0°-40°	428.2	14.9
0°-60°	785.8	27.4
0°-90°	1015.1	35.4
90°-120°	415.5	14.5
90°-150°	1390.4	48.5
90°-180°	1849.0	64.5
0°-180°	2864.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	312	312	312	312	312	
5°	313	310	312	311	309	30
15°	305	304	310	312	312	86
25°	288	289	300	307	309	133
35°	261	264	279	288	291	163
45°	223	229	244	254	258	172
55°	175	182	193	203	207	157
65°	122	126	134	140	142	121
75°	64	66	70	74	77	68
85°	12	15	20	25	27	15
90°	1	2	7	10	12	2
95°	21	20	23	26	27	26
105°	115	120	130	138	140	122
115°	226	236	255	268	275	221
125°	323	337	362	380	388	288
135°	405	419	445	464	473	313
145°	472	482	504	519	527	295
155°	520	526	540	551	555	240
165°	550	550	558	562	562	155
175°	562	558	558	556	552	54
180°	556	556	556	556	556	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	311.7	311.7	311.7	311.7	311.7	311.7	311.7	311.7	311.7	311.7	311.7
2.5°	314.8	314.0	313.2	311.7	311.7	310.9	310.9	310.9	310.9	311.7	312.5
5°	313.2	313.2	312.5	310.9	310.9	310.1	310.1	310.9	310.1	310.9	312.5
7.5°	312.5	312.5	311.7	310.1	310.1	310.1	310.1	310.1	310.1	310.9	312.5
10°	310.9	310.9	309.3	308.6	308.6	308.6	308.6	309.3	309.3	310.1	311.7
12.5°	308.6	307.8	307.0	306.2	306.2	306.2	307.0	307.8	307.8	309.3	310.9
15°	305.4	305.4	304.7	303.9	303.9	303.9	304.7	305.4	306.2	307.8	310.1
17.5°	302.3	302.3	301.5	301.5	301.5	301.5	302.3	303.1	304.7	306.2	308.6
20°	298.4	298.4	297.6	297.6	297.6	298.4	298.4	300.0	301.5	303.9	306.2
22.5°	293.7	293.7	293.7	292.9	293.7	294.5	295.3	296.8	298.4	300.7	303.9
25°	288.2	288.2	288.2	288.2	289.0	289.0	290.6	292.2	293.7	296.8	300.0
27.5°	282.8	282.8	282.8	282.0	283.6	284.3	285.1	287.5	289.0	292.9	296.1
30°	275.7	275.7	275.7	276.5	277.3	278.1	279.7	282.0	283.6	287.5	291.4
32.5°	268.7	268.7	268.7	268.7	271.1	271.8	272.6	275.0	278.1	282.0	285.9
35°	260.9	260.9	260.9	261.7	263.2	264.0	265.6	267.9	271.1	275.0	278.9
37.5°	252.3	253.1	253.1	253.9	255.4	257.0	258.6	260.9	264.0	267.9	271.8
40°	242.9	243.7	243.7	244.5	246.1	247.6	249.2	252.3	255.4	259.3	263.2
42.5°	233.6	234.3	234.3	235.9	237.5	239.0	240.6	243.7	246.8	250.8	253.9
45°	223.4	224.2	224.2	225.8	228.1	228.9	231.2	234.3	237.5	240.6	243.7
47.5°	212.5	213.3	213.3	214.8	217.2	218.7	220.3	223.4	225.8	229.7	232.8
50°	200.0	200.8	201.5	203.1	206.2	207.8	209.3	211.7	214.8	217.2	220.3
52.5°	188.3	188.3	189.0	190.6	192.9	194.5	195.3	197.6	201.5	204.7	207.8
55°	175.0	175.8	176.5	178.1	180.4	182.0	182.8	185.1	187.5	189.8	192.9
57.5°	163.3	163.3	164.0	165.6	167.9	168.7	169.5	171.1	174.2	176.5	178.9
60°	149.2	150.0	150.8	152.3	153.9	155.4	155.4	157.8	160.1	162.5	164.0
62.5°	136.7	136.7	137.5	139.0	139.8	141.4	141.4	143.7	145.3	147.6	149.2
65°	121.9	122.6	123.4	124.2	125.8	125.8	126.5	128.1	129.7	131.2	133.6
67.5°	108.6	108.6	109.4	110.1	110.9	110.9	111.7	113.3	114.8	116.4	118.0
70°	93.7	94.5	94.5	94.5	95.3	96.1	96.9	97.6	99.2	100.0	101.6
72.5°	78.9	78.9	79.7	79.7	80.5	81.2	82.0	82.8	83.6	85.1	85.9
75°	64.1	64.1	64.8	64.8	65.6	65.6	65.6	67.2	68.0	69.5	70.3
77.5°	49.2	50.0	50.0	50.0	50.8	51.6	51.6	52.3	53.9	54.7	55.5
80°	35.9	35.9	35.9	35.9	36.7	37.5	38.3	38.3	39.8	41.4	42.2
82.5°	22.7	22.7	23.4	24.2	24.2	25.0	25.8	26.6	28.1	28.9	29.7
85°	11.7	11.7	12.5	13.3	14.1	14.8	14.8	15.6	17.2	18.7	19.5
87.5°	3.9	4.7	4.7	5.5	6.2	7.0	7.8	8.6	10.2	11.7	12.5
90°	0.8	0.8	0.8	1.6	2.3	2.3	3.1	3.9	4.7	5.5	7.0
92.5°	7.0	7.0	6.2	7.0	7.0	7.0	7.0	7.8	8.6	8.6	10.2
95°	21.1	20.3	20.3	20.3	20.3	20.3	20.3	21.1	21.9	21.9	22.7
97.5°	40.6	40.6	39.8	39.8	40.6	40.6	40.6	41.4	43.0	42.2	43.7
100°	63.3	63.3	62.5	63.3	64.1	64.8	66.4	66.4	68.0	68.0	70.3
102.5°	89.1	89.1	88.3	89.8	90.6	92.2	92.2	93.7	96.1	96.1	99.2
105°	114.8	115.6	115.6	117.2	118.7	120.3	120.3	122.6	125.8	125.8	129.7
107.5°	143.0	143.7	143.7	145.3	146.9	148.4	149.2	152.3	155.4	156.2	160.9
110°	170.3	171.1	171.9	173.4	175.0	177.3	178.9	182.0	185.9	187.5	191.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	196.1	199.2	200.0	202.3	204.7	207.0	208.6	212.5	217.2	219.5	224.2
115°	225.8	227.3	228.1	230.4	233.6	235.9	237.5	241.4	246.1	249.2	254.7
117.5°	250.0	253.9	254.7	257.0	260.1	262.5	264.0	268.7	274.2	278.1	283.6
120°	275.7	278.9	282.0	283.6	285.9	289.0	290.6	295.3	301.5	305.4	311.7
122.5°	299.2	302.3	305.4	307.8	310.9	312.5	314.8	320.3	326.5	331.2	337.5
125°	322.6	326.5	328.9	331.2	335.1	336.7	339.0	344.5	350.7	356.2	362.5
127.5°	345.3	347.6	351.5	353.1	357.0	358.5	360.9	367.1	373.4	378.9	385.1
130°	366.4	369.5	372.6	373.4	378.1	380.4	382.8	388.2	395.3	400.7	407.0
132.5°	386.7	388.2	392.1	394.5	398.4	400.7	403.1	407.8	414.8	420.3	426.5
135°	405.4	407.0	411.7	414.0	416.4	418.7	421.8	426.5	433.5	439.0	445.3
137.5°	424.2	425.7	430.4	432.8	434.3	436.7	439.0	443.7	450.7	456.2	461.7
140°	441.4	442.9	446.0	449.2	450.7	452.3	454.6	459.3	465.6	471.0	476.5
142.5°	457.0	458.5	461.7	464.8	467.1	467.1	469.5	473.4	480.4	485.9	490.6
145°	471.8	472.6	475.7	478.8	482.0	482.0	482.8	486.7	492.9	499.2	503.8
147.5°	485.9	486.7	489.0	492.1	494.5	495.3	496.8	498.4	504.6	510.9	516.3
150°	498.4	499.2	500.7	503.8	505.4	507.0	508.5	509.3	514.0	519.5	525.7
152.5°	509.3	510.1	511.7	514.0	515.6	517.1	518.7	521.0	523.4	528.8	532.7
155°	520.2	521.0	521.8	524.2	525.7	526.5	527.3	530.4	532.7	535.9	539.8
157.5°	529.6	529.6	530.4	532.0	533.5	533.5	534.3	537.4	539.8	542.9	545.2
160°	537.4	537.4	538.2	539.8	539.8	540.6	541.3	543.7	545.2	549.2	552.3
162.5°	544.5	543.7	544.5	545.2	545.2	545.2	546.0	547.6	549.9	553.1	556.2
165°	549.9	549.9	549.9	550.7	550.7	549.9	549.9	551.5	553.1	555.4	557.7
167.5°	554.6	554.6	553.8	554.6	553.8	553.8	553.1	553.8	554.6	557.0	558.5
170°	558.5	557.7	557.7	557.7	557.0	556.2	556.2	556.2	556.2	557.7	559.3
172.5°	561.7	560.9	560.1	560.1	558.5	557.7	557.7	557.0	557.0	557.7	558.5
175°	562.4	561.7	560.9	560.9	559.3	558.5	557.7	557.7	557.0	557.7	558.5
177.5°	564.0	563.2	561.7	561.7	560.1	558.5	558.5	557.7	557.0	557.7	557.7
180°	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	311.7	311.7	311.7	311.7	311.7	311.7	311.7	311.7	311.7	311.7
2.5°	313.2	313.2	312.5	311.7	311.7	310.9	310.1	309.3	308.6	307.8
5°	313.2	312.5	311.7	311.7	310.9	310.9	310.9	310.1	309.3	309.3
7.5°	313.2	313.2	312.5	311.7	311.7	311.7	311.7	311.7	310.9	310.9
10°	313.2	312.5	312.5	312.5	311.7	312.5	312.5	311.7	311.7	310.9
12.5°	312.5	312.5	312.5	312.5	312.5	312.5	312.5	312.5	312.5	311.7
15°	310.9	311.7	311.7	312.5	312.5	312.5	313.2	313.2	312.5	312.5
17.5°	310.1	310.9	311.7	312.5	312.5	312.5	313.2	313.2	313.2	313.2
20°	308.6	309.3	310.1	310.9	310.9	311.7	311.7	312.5	312.5	312.5
22.5°	305.4	306.2	307.8	308.6	309.3	310.1	310.9	310.9	310.9	310.9
25°	302.3	303.9	304.7	306.2	307.0	307.8	308.6	308.6	308.6	309.3
27.5°	298.4	300.0	302.3	303.1	303.9	304.7	305.4	306.2	306.2	306.2
30°	293.7	296.1	297.6	299.2	300.0	300.7	301.5	301.5	302.3	302.3
32.5°	288.2	290.6	292.2	293.7	294.5	295.3	296.8	296.8	297.6	297.6
35°	281.2	283.6	285.9	287.5	288.2	289.0	290.6	291.4	291.4	291.4
37.5°	274.2	276.5	278.9	281.2	282.0	282.8	284.3	284.3	285.1	285.1
40°	265.6	267.9	270.3	272.6	272.6	274.2	275.0	275.7	276.5	276.5
42.5°	257.0	259.3	260.9	263.2	264.0	264.8	265.6	267.2	267.2	267.9
45°	246.8	249.2	250.8	253.1	253.9	254.7	256.2	257.0	257.8	257.8
47.5°	235.9	237.5	239.0	241.4	242.9	243.7	244.5	245.3	246.1	245.3
50°	223.4	225.0	227.3	229.7	230.4	231.2	232.8	232.8	233.6	233.6
52.5°	210.1	212.5	214.0	216.4	217.2	217.9	219.5	219.5	220.3	220.3
55°	195.3	196.9	198.4	202.3	203.1	203.9	205.4	205.4	206.2	207.0
57.5°	181.2	182.0	184.4	185.9	187.5	187.5	188.3	189.0	189.8	189.8
60°	166.4	167.2	168.7	171.1	171.1	171.9	173.4	173.4	174.2	174.2
62.5°	150.8	152.3	153.9	156.2	155.4	156.2	157.8	157.8	158.6	158.6
65°	135.1	135.9	137.5	139.0	139.8	139.8	140.6	141.4	142.2	142.2
67.5°	118.7	120.3	121.1	123.4	122.6	123.4	124.2	124.2	125.0	125.0
70°	103.1	103.9	105.5	106.2	106.2	107.0	107.8	107.8	107.8	108.6
72.5°	87.5	88.3	89.1	89.8	89.8	90.6	91.4	91.4	92.2	92.2
75°	71.1	72.6	73.4	75.0	74.2	75.0	76.6	76.6	76.6	76.6
77.5°	57.0	57.8	59.4	60.1	60.1	60.1	61.7	60.9	61.7	61.7
80°	43.0	43.7	45.3	46.1	46.1	46.9	47.7	47.7	47.7	48.4
82.5°	30.5	32.0	33.6	34.4	34.4	35.2	35.9	35.9	36.7	36.7
85°	21.1	22.7	24.2	24.2	25.0	25.8	26.6	26.6	26.6	26.6
87.5°	14.1	14.8	15.6	16.4	17.2	17.2	18.0	18.0	18.7	18.7
90°	7.8	8.6	9.4	10.2	10.2	10.9	10.9	11.7	11.7	11.7
92.5°	10.9	10.9	11.7	12.5	12.5	12.5	12.5	13.3	13.3	13.3
95°	23.4	24.2	24.2	25.8	25.8	25.8	26.6	26.6	26.6	26.6
97.5°	45.3	45.3	45.3	46.9	46.9	46.9	47.7	47.7	47.7	48.4
100°	71.1	71.9	71.9	74.2	73.4	75.0	75.0	75.0	75.0	75.8
102.5°	100.0	101.6	102.3	104.7	104.7	104.7	106.2	105.5	106.2	106.2
105°	131.2	132.8	133.6	135.9	137.5	137.5	139.0	138.3	139.0	139.8
107.5°	162.5	164.8	166.4	168.7	170.3	171.1	171.1	171.9	172.6	173.4
110°	194.5	196.9	200.8	203.1	203.9	205.4	206.2	207.0	207.8	209.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	228.1	230.4	233.6	236.7	235.9	238.3	239.8	240.6	241.4	240.6
115°	258.6	261.7	264.8	267.9	267.9	269.5	272.6	273.4	273.4	275.0
117.5°	287.5	291.4	294.5	297.6	298.4	300.0	302.3	304.7	304.7	306.2
120°	315.6	320.3	323.4	326.5	328.1	328.9	331.2	334.3	334.3	334.3
122.5°	342.1	346.1	350.0	353.1	354.6	356.2	357.8	361.7	361.7	363.2
125°	367.1	371.8	375.7	378.9	380.4	382.0	385.1	387.5	388.2	388.2
127.5°	390.6	395.3	399.2	403.1	403.9	405.4	408.5	411.7	412.4	413.2
130°	412.4	417.1	421.0	424.9	426.5	427.3	431.2	433.5	435.1	435.9
132.5°	432.0	436.7	440.6	444.5	446.0	447.6	449.9	453.9	454.6	454.6
135°	449.9	454.6	458.5	463.2	464.0	465.6	468.7	471.0	472.6	473.4
137.5°	466.3	471.0	475.7	479.6	481.2	482.0	485.1	488.2	489.8	490.6
140°	481.2	485.9	490.6	493.7	494.5	496.8	499.2	502.3	503.8	504.6
142.5°	495.3	499.2	503.1	507.0	507.8	509.3	511.7	514.8	516.3	517.1
145°	507.8	511.7	514.8	517.9	518.7	520.2	522.6	524.9	526.5	527.3
147.5°	519.5	522.6	525.7	528.1	528.8	530.4	532.0	533.5	535.1	535.9
150°	529.6	531.2	534.3	535.9	536.7	538.2	539.8	541.3	542.9	543.7
152.5°	537.4	539.8	541.3	543.7	544.5	545.2	546.8	548.4	549.9	549.9
155°	543.7	546.0	547.6	549.9	550.7	551.5	553.1	553.8	555.4	555.4
157.5°	548.4	550.7	552.3	553.8	554.6	555.4	556.2	557.7	559.3	559.3
160°	553.8	554.6	555.4	557.0	557.0	557.7	558.5	559.3	560.9	560.9
162.5°	558.5	559.3	557.7	558.5	557.7	558.5	559.3	560.1	560.9	560.9
165°	560.1	561.7	560.9	561.7	561.7	561.7	561.7	562.4	562.4	562.4
167.5°	560.1	561.7	560.9	560.9	561.7	561.7	562.4	563.2	563.2	563.2
170°	560.1	560.9	560.1	559.3	560.1	560.1	560.1	560.9	560.9	560.9
172.5°	559.3	560.1	558.5	557.7	557.7	557.7	557.0	557.0	556.2	556.2
175°	558.5	558.5	557.0	556.2	556.2	556.2	554.6	553.8	553.1	552.3
177.5°	557.7	557.7	555.4	554.6	554.6	553.8	553.8	552.3	552.3	551.5
180°	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2

(END OF REPORT)