Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 17910

Luminaire Tested: **E2W-WC-1T8**

Issue Date: 3/3/2020

Report Generated By E9808136 / USAU2WHP6039969

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Peachtree City, GA 30269

Test Information

Test Method:	LM-41-14
Report Number:	17910
Test Lab:	
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	CORELITE
Catalog Number:	E2W-WC-1T8
Description:	DIRECT/INDIRECT WALL LUMINAIRE - ELEMENT WALL WITH WHITE INTERIOR AND WHITE LENS OVER CONCAVE PERF PANEL
Light Source:	ONE PHILIPS 32 WATT T8 LAMP F32T8/TL841. LUMEN RATING = 3000 LMS.
Ballast/Driver:	-

Summary

Lumens per Lamp:	3000 (1 lamp)
Luminaire Lumens:	2438.4 lumens
Efficiency:	81.3%
Efficacy:	76.2 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.29 / 1.42
Luminous Opening:	Rectangular (W 0.22' x L: 3.59' x H: 0')
CIE Type:	Indirect

Input Watts (W):	32
Input Voltage (V):	NR
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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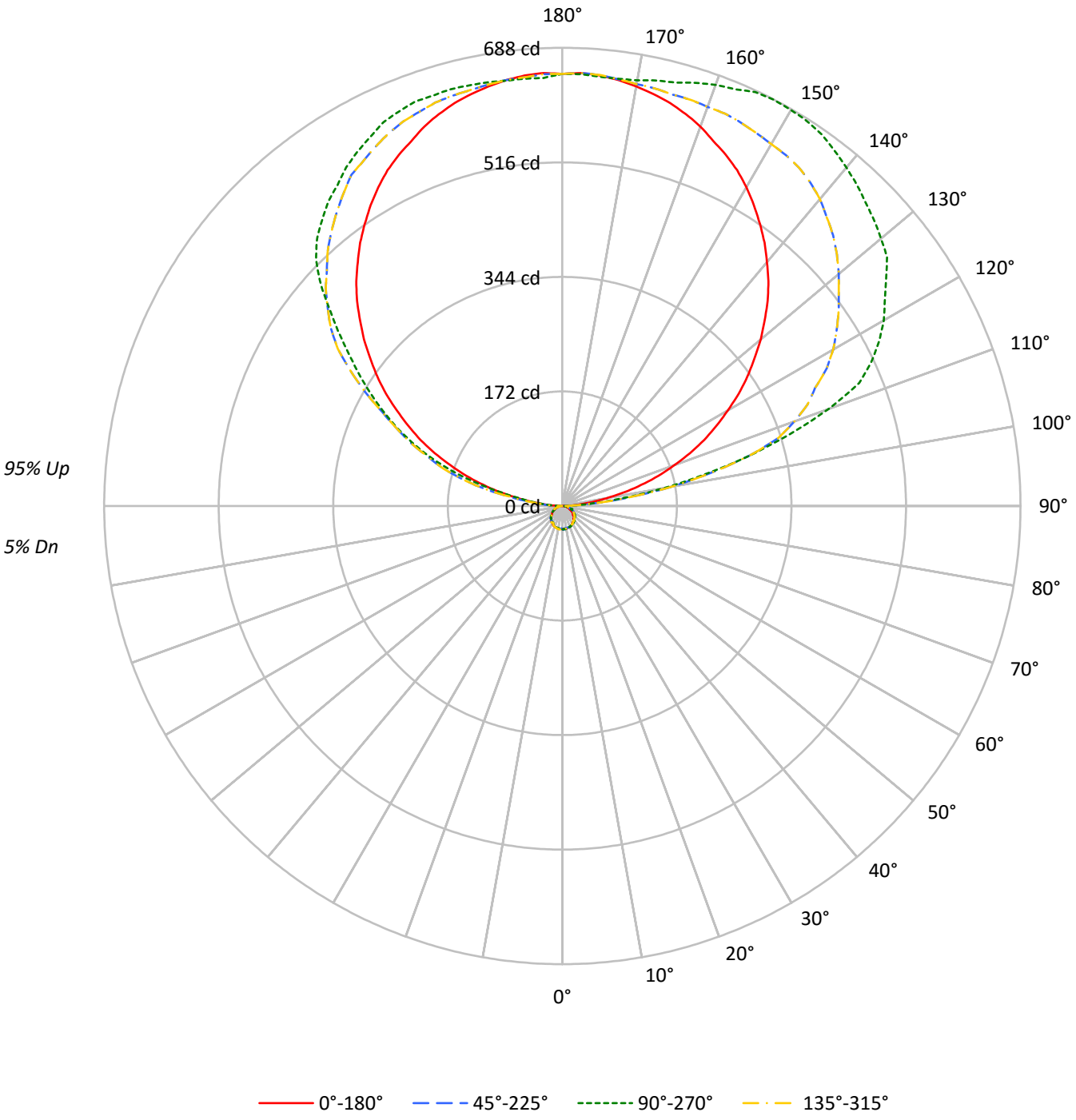
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	78	78	78	78	67	67	67	67	47	47	47	29	29	29	12	12	12	4
1	71	68	65	62	61	59	56	54	41	40	38	25	24	24	10	10	10	3
2	65	59	55	51	56	51	47	44	36	34	32	22	21	20	9	8	8	2
3	59	52	46	42	50	45	40	37	32	29	26	19	18	16	8	7	7	2
4	54	46	40	35	46	39	35	31	28	25	22	17	15	14	7	6	6	2
5	49	40	34	30	42	35	30	26	25	21	19	15	13	12	6	5	5	1
6	45	36	30	26	39	31	26	22	22	19	16	14	12	10	6	5	4	1
7	41	32	26	22	36	28	23	19	20	17	14	12	10	9	5	4	4	1
8	38	29	23	19	33	25	20	17	18	15	12	11	9	8	5	4	3	1
9	35	26	21	17	30	23	18	15	16	13	11	10	8	7	4	3	3	1
10	33	24	18	15	28	21	16	13	15	12	10	9	7	6	4	3	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	477	477	477	477
5°	477	472	477	483
10°	476	477	476	464
15°	473	473	473	473
20°	486	486	486	471
25°	484	489	484	463
30°	469	485	469	456
35°	474	496	474	482
40°	457	516	457	466
45°	468	505	468	466
50°	435	534	435	454
55°	456	556	456	468
60°	433	537	433	461
65°	410	577	410	400
70°	418	562	418	494
75°	358	542	358	358
80°	416	596	416	596
85°	469	907	469	625

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	3.3	0.1	0.1
10°-20°	9.5	0.4	0.3
20°-30°	14.4	0.6	0.5
30°-40°	17.8	0.7	0.6
40°-50°	18.9	0.8	0.6
50°-60°	17.8	0.7	0.6
60°-70°	14.7	0.6	0.5
70°-80°	9.8	0.4	0.3
80°-90°	3.9	0.2	0.1
90°-100°	51.4	2.1	1.7
100°-110°	215.9	8.9	7.2
110°-120°	340.8	14.0	11.4
120°-130°	401.6	16.5	13.4
130°-140°	413.1	16.9	13.8
140°-150°	372.1	15.3	12.4
150°-160°	290.1	11.9	9.7
160°-170°	181.6	7.4	6.1
170°-180°	61.7	2.5	2.1
0°-30°	27.2	1.1	0.9
0°-40°	45.0	1.8	1.5
0°-60°	81.8	3.4	2.7
0°-90°	110.2	4.5	3.7
90°-120°	608.1	24.9	20.3
90°-150°	1794.9	73.6	59.8
90°-180°	2328.0	95.5	77.6
0°-180°	2438.4	100.0	81.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	35	35	35	35	35	
5°	35	34	35	35	35	3
15°	34	34	34	34	34	10
25°	32	32	32	31	32	15
35°	28	30	28	29	28	18
45°	24	26	24	24	24	19
55°	19	23	19	20	19	17
65°	13	18	13	12	13	13
75°	7	10	7	7	7	8
85°	3	6	3	4	3	3
90°	0	0	0	0	0	1
95°	24	46	24	25	24	29
105°	123	288	123	132	123	130
115°	235	512	235	271	235	231
125°	339	593	339	387	339	303
135°	436	644	436	523	436	336
145°	517	680	517	589	517	324
155°	581	686	581	636	581	268
165°	626	658	626	648	626	177
175°	649	647	649	644	649	62
180°	649	649	649	649	649	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	35.0	35.0	35.0	35.0	*35.0*	35.0	35.0	35.0	35.0	35.0	35.0
2.5°	34.4	35.3	35.3	34.5	*35.3*	34.5	35.3	35.3	34.4	35.3	33.5
5°	34.9	35.3	35.3	33.5	*34.5*	33.5	35.3	35.3	34.9	34.5	35.3
7.5°	34.4	33.5	33.5	34.5	*35.3*	34.5	33.5	33.5	34.4	34.5	35.3
10°	34.4	33.5	34.5	34.5	*34.5*	34.5	34.5	33.5	34.4	34.5	35.3
12.5°	34.4	34.5	33.5	35.3	*34.5*	35.3	33.5	34.5	34.4	34.5	34.5
15°	33.5	33.5	33.5	33.5	*33.5*	33.5	33.5	33.5	33.5	32.5	34.5
17.5°	33.5	33.5	33.5	32.5	*33.5*	32.5	33.5	33.5	33.5	32.5	33.5
20°	33.5	31.8	33.5	32.5	*33.5*	32.5	33.5	31.8	33.5	31.8	33.5
22.5°	32.2	32.5	32.5	31.8	*32.5*	31.8	32.5	32.5	32.2	31.8	32.5
25°	32.2	31.8	31.8	31.8	*32.5*	31.8	31.8	31.8	32.2	30.8	31.8
27.5°	30.8	29.8	30.8	30.8	*29.0*	30.8	30.8	29.8	30.8	29.8	29.0
30°	29.8	29.8	30.8	31.8	*30.8*	31.8	30.8	29.8	29.8	29.8	29.0
32.5°	29.0	29.0	29.8	29.8	*30.8*	29.8	29.8	29.0	29.0	28.0	29.8
35°	28.5	29.8	28.0	29.8	*29.8*	29.8	28.0	29.8	28.5	29.8	29.0
37.5°	28.0	27.0	28.0	29.8	*28.0*	29.8	28.0	27.0	28.0	26.2	26.2
40°	25.7	26.2	28.0	27.0	*29.0*	27.0	28.0	26.2	25.7	26.2	26.2
42.5°	25.7	24.2	26.2	27.0	*28.0*	27.0	26.2	24.2	25.7	24.2	25.2
45°	24.3	23.4	25.2	26.2	*26.2*	26.2	25.2	23.4	24.3	24.2	25.2
47.5°	23.3	22.4	25.2	25.2	*26.2*	25.2	25.2	22.4	23.3	22.4	22.4
50°	20.5	22.4	24.2	25.2	*25.2*	25.2	24.2	22.4	20.5	22.4	21.4
52.5°	19.7	20.7	22.4	23.4	*24.2*	23.4	22.4	20.7	19.7	19.7	19.7
55°	19.2	18.7	21.4	22.4	*23.4*	22.4	21.4	18.7	19.2	19.7	19.7
57.5°	17.8	17.9	20.7	20.7	*21.4*	20.7	20.7	17.9	17.8	17.9	18.7
60°	15.9	16.9	19.7	20.7	*19.7*	20.7	19.7	16.9	15.9	15.1	16.9
62.5°	15.0	16.9	18.7	19.7	*17.9*	19.7	18.7	16.9	15.0	15.1	14.1
65°	12.7	15.1	17.9	16.9	*17.9*	16.9	17.9	15.1	12.7	13.1	14.1
67.5°	11.8	13.1	15.9	16.9	*15.1*	16.9	15.9	13.1	11.8	11.3	13.1
70°	10.5	11.3	14.1	14.1	*14.1*	14.1	14.1	11.3	10.5	10.3	12.4
72.5°	8.2	11.3	12.4	13.1	*15.9*	13.1	12.4	11.3	8.2	9.6	11.3
75°	6.8	9.6	11.3	11.3	*10.3*	11.3	11.3	9.6	6.8	8.6	6.8
77.5°	6.8	7.6	9.6	9.6	*10.3*	9.6	9.6	7.6	6.8	5.8	7.6
80°	5.3	7.6	6.8	8.6	*7.6*	8.6	6.8	7.6	5.3	7.6	6.8
82.5°	4.4	5.8	4.8	7.6	*4.8*	7.6	4.8	5.8	4.4	4.0	4.8
85°	3.0	4.0	4.8	4.8	*5.8*	4.8	4.8	4.0	3.0	3.0	4.0
87.5°	0.9	1.3	0.5	4.0	*4.0*	4.0	0.5	1.3	0.9	1.3	0.5
90°	0.5	0.5	0.5	0.5	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	8.6	27.0	15.9	27.0	*15.9*	27.0	15.9	27.0	8.6	7.6	13.1
95°	23.8	69.6	50.2	62.3	*46.4*	62.3	50.2	69.6	23.8	21.4	29.0
97.5°	44.6	128.6	102.9	119.5	*93.6*	119.5	102.9	128.6	44.6	40.1	51.2
100°	67.3	221.9	164.7	216.4	*155.6*	216.4	164.7	221.9	67.3	73.4	80.7
102.5°	95.5	251.4	226.7	249.7	*219.2*	249.7	226.7	251.4	95.5	88.0	120.3
105°	122.7	300.6	289.5	314.5	*288.5*	314.5	289.5	300.6	122.7	143.5	154.6
107.5°	151.3	331.9	340.2	384.6	*356.9*	384.6	340.2	331.9	151.3	174.0	187.9
110°	178.5	359.6	370.7	442.8	*425.2*	442.8	370.7	359.6	178.5	203.5	213.6

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Scaled Data Report

TEST NUMBER: 17910
CATALOG NUMBER: E2W-WC-1T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	207.2	385.6	398.5	474.1	*482.4*	474.1	398.5	385.6	207.2	234.0	245.1
115°	234.9	413.3	418.6	500.1	*511.9*	500.1	418.6	413.3	234.9	263.5	273.6
117.5°	260.8	434.5	447.4	523.0	*536.2*	523.0	447.4	434.5	260.8	296.8	304.1
120°	286.6	454.7	469.6	540.7	*557.3*	540.7	469.6	454.7	286.6	330.1	341.2
122.5°	314.0	484.5	488.0	575.8	*574.0*	575.8	488.0	484.5	314.0	366.2	376.3
125°	339.3	494.5	506.4	583.3	*593.4*	583.3	506.4	494.5	339.3	381.8	411.3
127.5°	363.3	513.0	523.0	595.2	*614.6*	595.2	523.0	513.0	363.3	421.4	438.1
130°	388.8	530.6	541.7	608.0	*624.7*	608.0	541.7	530.6	388.8	443.6	459.5
132.5°	411.8	548.0	559.1	619.1	*635.0*	619.1	559.1	548.0	411.8	465.8	481.7
135°	435.8	562.9	575.0	630.2	*644.1*	630.2	575.0	562.9	435.8	487.2	500.1
137.5°	458.0	575.8	587.9	642.3	*654.4*	642.3	587.9	575.8	458.0	504.6	521.3
140°	477.9	586.9	601.7	652.4	*663.5*	652.4	601.7	586.9	477.9	525.8	538.9
142.5°	498.6	599.0	611.8	661.8	*671.8*	661.8	611.8	599.0	498.6	541.7	556.3
145°	517.1	606.3	620.1	670.8	*680.2*	670.8	620.1	606.3	517.1	561.1	573.0
147.5°	535.5	610.1	624.7	673.6	*684.7*	673.6	624.7	610.1	535.5	567.4	589.6
150°	552.7	615.6	627.5	675.6	*686.7*	675.6	627.5	615.6	552.7	585.8	597.9
152.5°	*568.4*	*621.1*	*631.2*	*675.6*	*687.5*	*675.6*	*631.2*	*621.1*	*568.4*	*599.0*	*608.0*
155°	581.4	623.9	635.0	672.8	*685.7*	672.8	635.0	623.9	581.4	609.0	617.4
157.5°	592.9	628.5	637.8	667.3	*677.4*	667.3	637.8	628.5	592.9	615.6	624.7
160°	606.3	629.5	637.8	664.5	*672.8*	664.5	637.8	629.5	606.3	622.9	629.5
162.5°	616.9	632.2	639.6	660.0	*666.3*	660.0	639.6	632.2	616.9	629.5	635.0
165°	626.2	635.8	639.6	655.2	*658.0*	655.2	639.6	635.8	626.2	634.0	637.8
167.5°	633.5	643.3	642.3	649.6	*654.4*	649.6	642.3	643.3	633.5	638.6	639.6
170°	639.6	643.3	643.3	650.7	*648.9*	650.7	643.3	643.3	639.6	639.6	642.3
172.5°	645.1	646.9	646.1	649.6	*646.9*	649.6	646.1	646.9	645.1	643.3	645.1
175°	648.8	648.9	649.6	650.7	*646.9*	650.7	649.6	648.9	648.8	645.1	646.1
177.5°	650.7	650.7	650.7	651.7	*648.9*	651.7	650.7	650.7	650.7	646.9	648.9
180°	648.7	648.7	648.7	648.7	*648.7*	648.7	648.7	648.7	648.7	648.7	648.7

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	35.0	35.0	35.0	35.0	35.0	35.0
2.5°	34.5	35.3	34.5	33.5	35.3	34.4
5°	34.5	35.3	34.5	35.3	34.5	34.9
7.5°	34.5	34.5	34.5	35.3	34.5	34.4
10°	33.5	33.5	33.5	35.3	34.5	34.4
12.5°	33.5	34.5	33.5	34.5	34.5	34.4
15°	32.5	33.5	32.5	34.5	32.5	33.5
17.5°	32.5	32.5	32.5	33.5	32.5	33.5
20°	32.5	32.5	32.5	33.5	31.8	33.5
22.5°	31.8	32.5	31.8	32.5	31.8	32.2
25°	30.8	30.8	30.8	31.8	30.8	32.2
27.5°	29.0	29.0	29.0	29.0	29.8	30.8
30°	28.0	29.0	28.0	29.0	29.8	29.8
32.5°	29.0	28.0	29.0	29.8	28.0	29.0
35°	28.0	29.0	28.0	29.0	29.8	28.5
37.5°	25.2	27.0	25.2	26.2	26.2	28.0
40°	26.2	26.2	26.2	26.2	26.2	25.7
42.5°	24.2	25.2	24.2	25.2	24.2	25.7
45°	22.4	24.2	22.4	25.2	24.2	24.3
47.5°	22.4	23.4	22.4	22.4	22.4	23.3
50°	19.7	21.4	19.7	21.4	22.4	20.5
52.5°	19.7	19.7	19.7	19.7	19.7	19.7
55°	17.9	19.7	17.9	19.7	19.7	19.2
57.5°	16.9	17.9	16.9	18.7	17.9	17.8
60°	15.9	16.9	15.9	16.9	15.1	15.9
62.5°	14.1	15.1	14.1	14.1	15.1	15.0
65°	13.1	12.4	13.1	14.1	13.1	12.7
67.5°	11.3	13.1	11.3	13.1	11.3	11.8
70°	11.3	12.4	11.3	12.4	10.3	10.5
72.5°	8.6	10.3	8.6	11.3	9.6	8.2
75°	7.6	6.8	7.6	6.8	8.6	6.8
77.5°	7.6	7.6	7.6	7.6	5.8	6.8
80°	4.8	7.6	4.8	6.8	7.6	5.3
82.5°	4.0	5.8	4.0	4.8	4.0	4.4
85°	3.0	4.0	3.0	4.0	3.0	3.0
87.5°	2.0	0.5	2.0	0.5	1.3	0.9
90°	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	4.8	9.6	4.8	13.1	7.6	8.6
95°	18.7	25.2	18.7	29.0	21.4	23.8
97.5°	33.5	40.9	33.5	51.2	40.1	44.6
100°	54.7	63.0	54.7	80.7	73.4	67.3
102.5°	67.8	93.6	67.8	120.3	88.0	95.5
105°	125.8	132.4	125.8	154.6	143.5	122.7
107.5°	163.9	172.0	163.9	187.9	174.0	151.3
110°	197.0	207.3	197.0	213.6	203.5	178.5

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	233.0	239.6	233.0	245.1	234.0	207.2
115°	263.5	270.9	263.5	273.6	263.5	234.9
117.5°	292.3	299.6	292.3	304.1	296.8	260.8
120°	321.8	329.1	321.8	341.2	330.1	286.6
122.5°	350.3	358.6	350.3	376.3	366.2	314.0
125°	363.4	387.4	363.4	411.3	381.8	339.3
127.5°	416.1	420.7	416.1	438.1	421.4	363.3
130°	451.2	454.7	451.2	459.5	443.6	388.8
132.5°	485.2	491.8	485.2	481.7	465.8	411.8
135°	514.7	523.0	514.7	500.1	487.2	435.8
137.5°	532.4	545.2	532.4	521.3	504.6	458.0
140°	550.0	561.1	550.0	538.9	525.8	477.9
142.5°	564.7	576.8	564.7	556.3	541.7	498.6
145°	580.5	588.6	580.5	573.0	561.1	517.1
147.5°	585.8	603.5	585.8	589.6	567.4	535.5
150°	606.3	614.6	606.3	597.9	585.8	552.7
152.5°	*619.1*	*624.7*	*619.1*	*608.0*	*599.0*	*568.4*
155°	630.2	635.8	630.2	617.4	609.0	581.4
157.5°	635.8	641.3	635.8	624.7	615.6	592.9
160°	642.3	646.1	642.3	629.5	622.9	606.3
162.5°	646.1	646.1	646.1	635.0	629.5	616.9
165°	646.1	647.9	646.1	637.8	634.0	626.2
167.5°	646.9	646.9	646.9	639.6	638.6	633.5
170°	646.9	646.1	646.9	642.3	639.6	639.6
172.5°	646.9	644.1	646.9	645.1	643.3	645.1
175°	646.9	644.1	646.9	646.1	645.1	648.8
177.5°	646.9	643.3	646.9	648.9	646.9	650.7
180°	648.7	648.7	648.7	648.7	648.7	648.7

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