

Mainsail: 7001117 Ciro Lock Crowther 42.5 Catamaran Sq top MainsailV2

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001117 Ciro\7001

Initial Design Date: 21/11/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	43.389Ft
Leech geodesic:	44.551Ft
Foot geodesic:	15.509Ft
Head geodesic:	5.000Ft
Upper width (MUW):	6.135Ft
Three-quarter width (MTW):	8.660Ft
Half width (MHW):	11.601Ft
Quarter width (MQW):	13.711Ft
Foot median:	43.806Ft
ORC Mainsail area:	475.902Ft?
Surface area:	492.530Ft?
Clew height:	1.371Ft
Mast rake:	1.696Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	5.983Ft	0.000Ft	107.863?	40.186Ft	44.237Ft	Full
90.748%	7.098Ft	0.893Ft	82.987?	38.742Ft	40.145Ft	Full
79.319%	8.880Ft	1.287Ft	82.987?	33.857Ft	35.089Ft	Full
65.570%	10.462Ft	1.328Ft	82.987?	27.983Ft	29.006Ft	Full
49.757%	11.958Ft	1.156Ft	82.987?	21.230Ft	22.011Ft	Full
34.062%	13.220Ft	0.843Ft	82.987?	14.531Ft	15.068Ft	Full
17.588%	14.373Ft	0.447Ft	82.987?	7.501Ft	7.780Ft	Full

Reefing Points

- 1, Luff: 5.285Ft ; Leech: 5.300Ft ; Offset: 0.000Ft ; Number Eyelets: 0
- 2, Luff: 11.917Ft ; Leech: 11.935Ft ; Offset: 0.000Ft ; Number Eyelets: 0
- 3, Luff: 19.505Ft ; Leech: 19.513Ft ; Offset: 0.000Ft ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 10.833Ft ; Leech: 9.635Ft ;
- 2, Luff: 21.674Ft ; Leech: 20.654Ft ;
- 3, Luff: 32.525Ft ; Leech: 31.729Ft ;

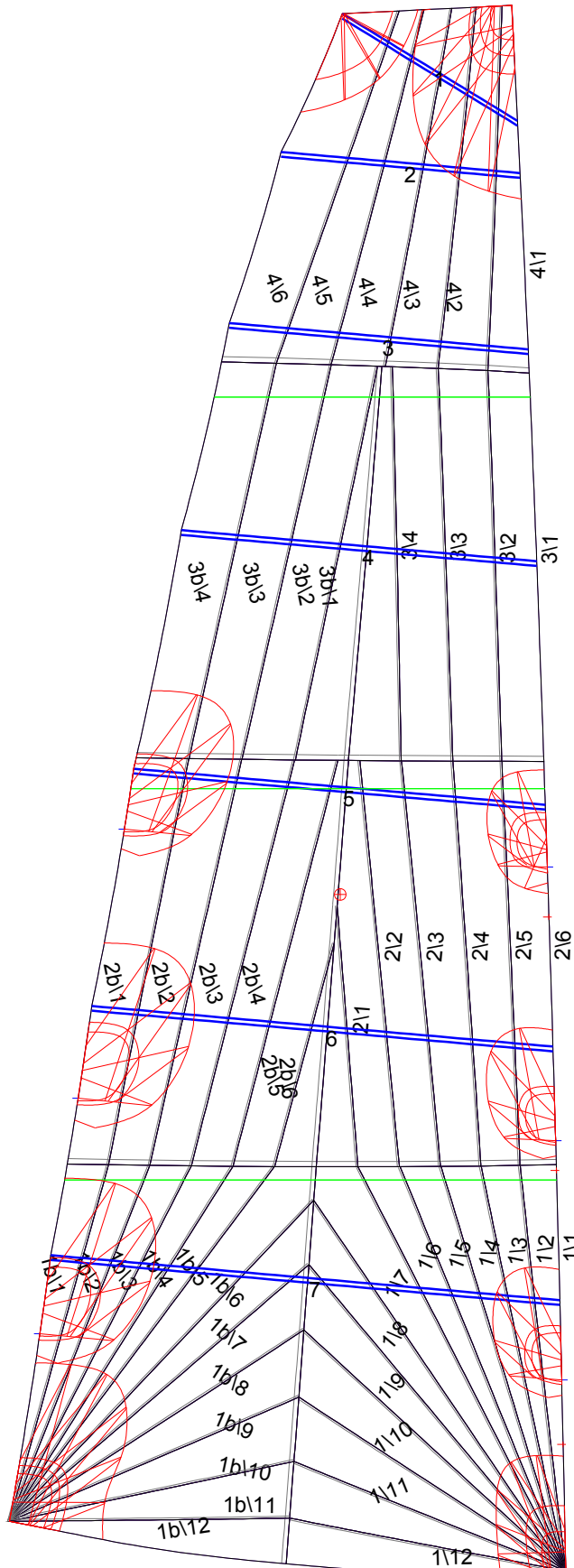
Luff Slides

- 1, Position: 3.507Ft
- 2, Position: 11.096Ft
- 3, Position: 18.114Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.771Ft])	Before BSeam
43.388Ft,	0.000Ft	100% (43.389Ft) :	0.000Ft
37.981Ft,	-0.080Ft	90% (39.053Ft) :	0.171Ft
32.541Ft,	-0.137Ft	80% (34.710Ft) :	0.306Ft
27.087Ft,	-0.161Ft	70% (30.373Ft) :	0.374Ft
21.693Ft,	-0.164Ft	60% (26.034Ft) :	0.386Ft
16.167Ft,	-0.152Ft	50% (21.695Ft) :	0.373Ft
10.847Ft,	-0.121Ft	40% (17.356Ft) :	0.335Ft
5.407Ft,	-0.069Ft	30% (13.017Ft) :	0.272Ft
0.000Ft,	0.000Ft	20% (8.677Ft) :	0.186Ft
		10% (4.341Ft) :	0.085Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.125Ft	0.052Ft	0.148Ft
Zone: 1/b	0.125Ft	0.052Ft	0.148Ft
Zone: 2/a	0.125Ft	0.052Ft	0.148Ft
Zone: 2/b	0.125Ft	0.052Ft	0.148Ft
Zone: 3/a	0.125Ft	0.052Ft	0.148Ft
Zone: 3/b	0.125Ft	0.052Ft	0.148Ft
Zone: 4	0.125Ft	0.052Ft	0.148Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	34.79
Radial/Vertical	458.17
Bi-Radial Split	34.53

Materials

Material	Area (Ft ²)	Panels
Material 1	492.36	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\6 2\5,2\4,2\3,2\2,2\1 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3\4 3b\1,3b\2,3b\3,3b\4,4\1 4\2,4\3,4\4,4\5,4\6