

Mainsail: 5000122 Michael mainsail.des

Design Info
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Design File:
D:\dropbox\Dropbox\Fareast Sails\2021\5000122 Michael\5000122 Michael mainsail.des

Initial Design Date: 10/2/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 12.405m
 Leech geodesic: 12.919m
 Foot geodesic: 4.097m
 Head geodesic: 0.200m
 Upper width (MUW): 0.793m
 Three-quarter width (MTW): 1.399m
 Half width (MHW): 2.493m
 Quarter width (MQW): 3.367m
 Foot median: 12.633m
 ORC Mainsail area: 29.160m?
 Surface area: 29.728m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.202m	0.143m	73.956?	9.915m	10.320m	Full
60.000%	1.221m	0.244m	73.956?	7.434m	7.740m	
40.000%	1.221m	0.206m	73.956?	4.954m	5.160m	
20.000%	1.017m	0.116m	73.956?	2.474m	2.580m	

Reefing Points

- 1, Luff: 1.860m ; Leech: 1.919m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 3.721m ; Leech: 3.839m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 5.581m ; Leech: 5.762m ; Offset: 0.000m ; Number Eyelets: 3

Luff Slides

- 1, Position: 0.825m
- 2, Position: 1.649m
- 3, Position: 3.301m
- 4, Position: 4.127m
- 5, Position: 5.780m
- 6, Position: 6.607m
- 7, Position: 8.261m
- 8, Position: 9.088m
- 9, Position: 10.745m
- 10, Position: 11.575m

Luff Curve

		Fanned Luff (@ 5.00% [0.204m])	Before BSeam
12.405m,	0.000m	100% (12.405m) :	0.000m
11.152m,	-0.025m	90% (11.165m) :	0.043m
9.924m,	-0.045m	80% (9.924m) :	0.079m
8.671m,	-0.057m	70% (8.684m) :	0.105m
7.442m,	-0.063m	60% (7.443m) :	0.123m
5.607m,	-0.061m	50% (6.203m) :	0.128m
3.721m,	-0.047m	40% (4.962m) :	0.123m
1.970m,	-0.028m	30% (3.722m) :	0.106m
0.000m,	0.000m	20% (2.481m) :	0.077m
		10% (1.241m) :	0.037m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.035m
Zone: 2	0.000m	0.000m	0.035m

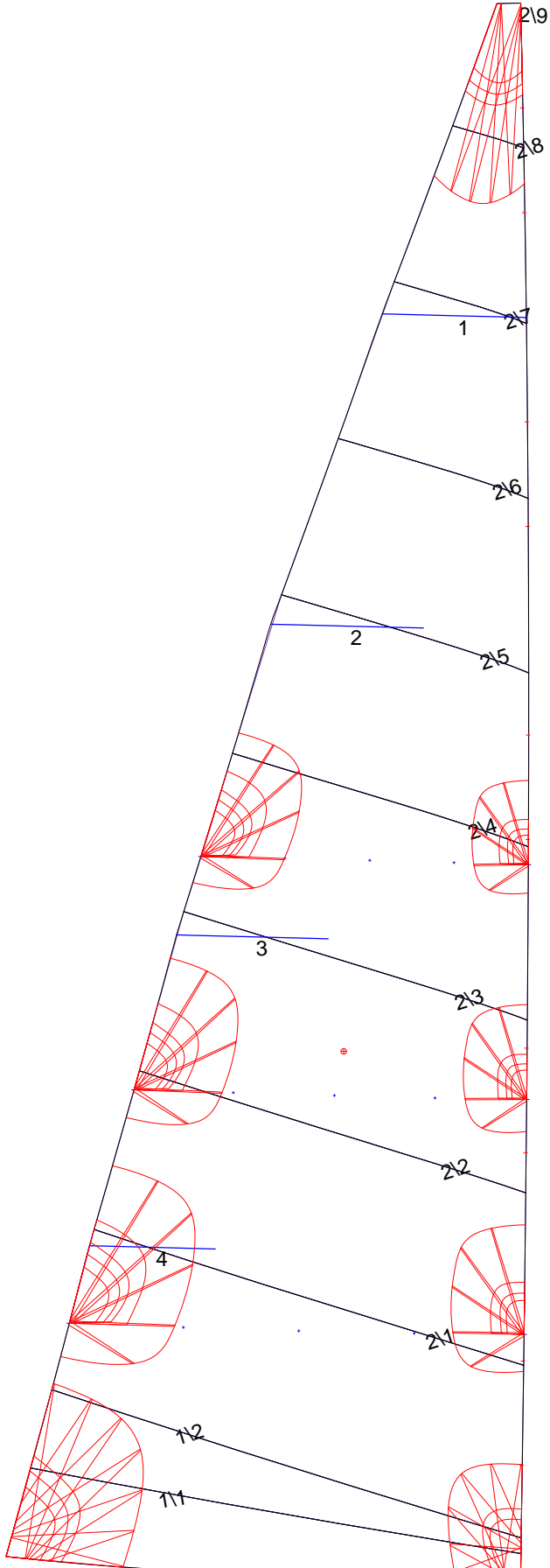
Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

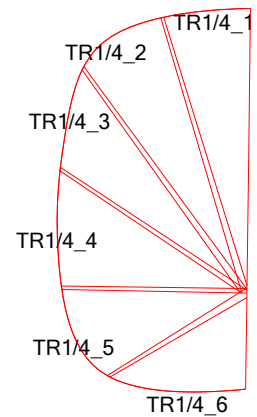
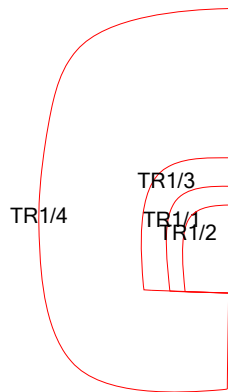
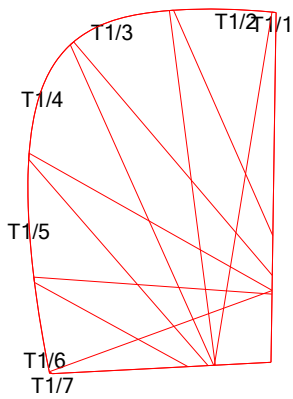
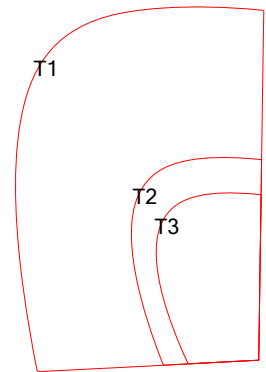
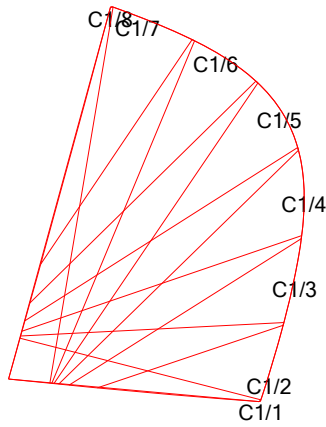
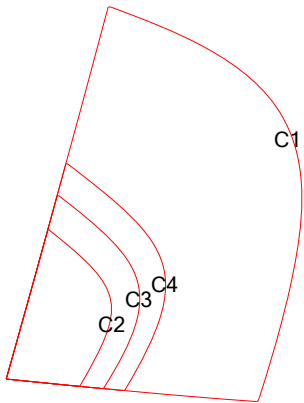
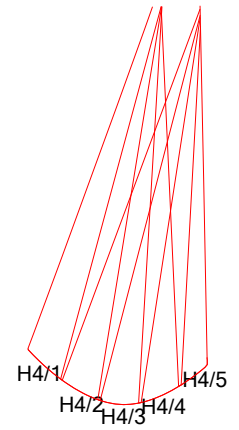
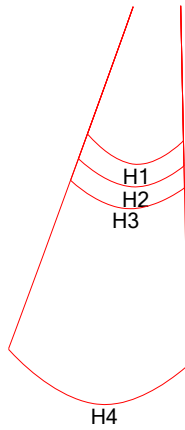
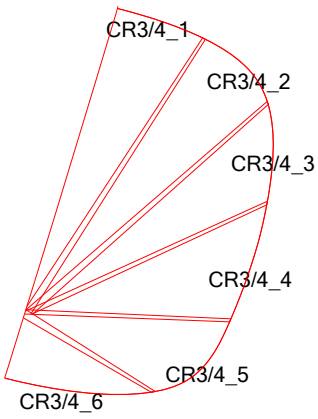
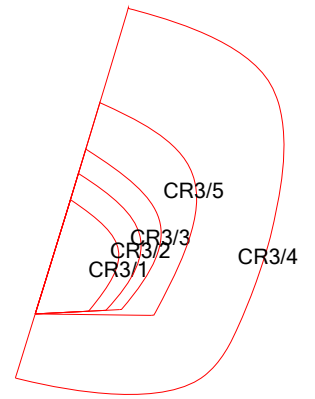
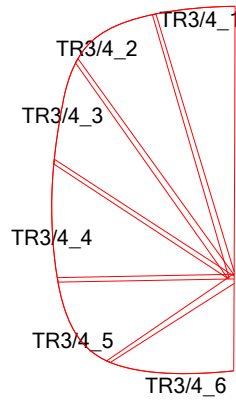
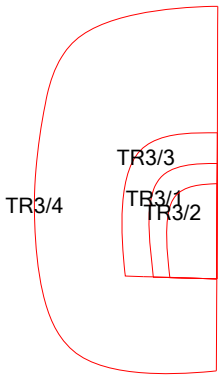
Horizontal	25.91
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	29.76	1\1,1\2,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9



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