Mainsail: Antrim 27 class radial main mk2 R1
Far East Sails / Michael Design: Azure Project v6.002

Design Info
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Initial Design Date: 26/1/2019
Boat:
Antrim 27
Client:
Far East Sails / Michael

Design: Azure Project v6.002

design mk2

Design File:
E:\Dropbox\Mike computer\Fareast Sails Production\2019\3000106 Frederic\Antrim 27 class radial main mk2 - 300010

Comments:
Antrim 27 class radial main, FR rig, 31.7 m2
Material: Challenge 6.11 oz warp drive (radial)
P = 10.287 m, E = 4.267 m (loose foot)
Luff = 10.277 m, Leech = 10.84 m, foot = 4.24 m
4 full battens + 1 partial batten (lowest). Lengths,
from top: 159 cm, 250 cm, 319 cm, 371 cm, 180 cm
3 draft stripes @ 25%%, 50%%, 75%% hts
radial seams = 15 mm, zone seams = 35 mm
Max girths, measured from upper aft edge of battens, to
closest points on luff:
G1 = 1.463 m
G2 = 2.408 m
G3 = 3.139 m
G4 = 3.749 m
radial patches

Design Data
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Main

Measurements

Luff geodesic:	33.240Ft
Leech geodesic:	35.160Ft
Foot geodesic:	13.911Ft
Head geodesic:	0.131Ft
Upper width (MUW):	4.269Ft
Three-quarter width (MTW):	7.179Ft
Half width (MHW):	10.826Ft
Quarter width (MQW):	12.702Ft
Foot median:	33.846Ft
ORC Mainsail area:	316.066Ft?
Surface area:	336.937Ft?

Battens

Position	Length	Roach	Angle	Full
89.242%	5.222Ft	3.412Ft	79.966?	Full
74.219%	8.211Ft	3.937Ft	79.453?	Full
58.070%	10.467Ft	3.773Ft	79.019?	Full
38.581%	12.182Ft	2.873Ft	79.355?	Full
19.276%	5.906Ft	1.509Ft	79.093?	

Reefing Points

1, Luff: 4.976Ft ; Leech: 5.028Ft ; Offset: 0.000Ft ; Number Eyelets: 0
2, Luff: 9.954Ft ; Leech: 10.056Ft ; Offset: 0.000Ft ; Number Eyelets: 0

Luff Curve

33.236Ft,	0.000Ft
24.927Ft,	-0.218Ft
16.618Ft,	-0.274Ft
8.309Ft,	-0.202Ft
0.000Ft,	0.000Ft

Fanned Luff (@ 5.00% [0.(	Before BSeam	
100% (33.240Ft) :	0.000Ft	-0.000Ft
90% (29.919Ft) :	0.063Ft	0.222Ft
80% (26.591Ft) :	0.122Ft	0.406Ft
70% (23.269Ft) :	0.161Ft	0.539Ft
60% (19.944Ft) :	0.178Ft	0.588Ft
50% (16.620Ft) :	0.178Ft	0.561Ft
40% (13.296Ft) :	0.165Ft	0.481Ft
30% (9.972Ft) :	0.141Ft	0.371Ft
20% (6.647Ft) :	0.101Ft	0.241Ft
10% (3.326Ft) :	0.049Ft	0.108Ft
0% (0.000Ft) :	0.000Ft	0.000Ft

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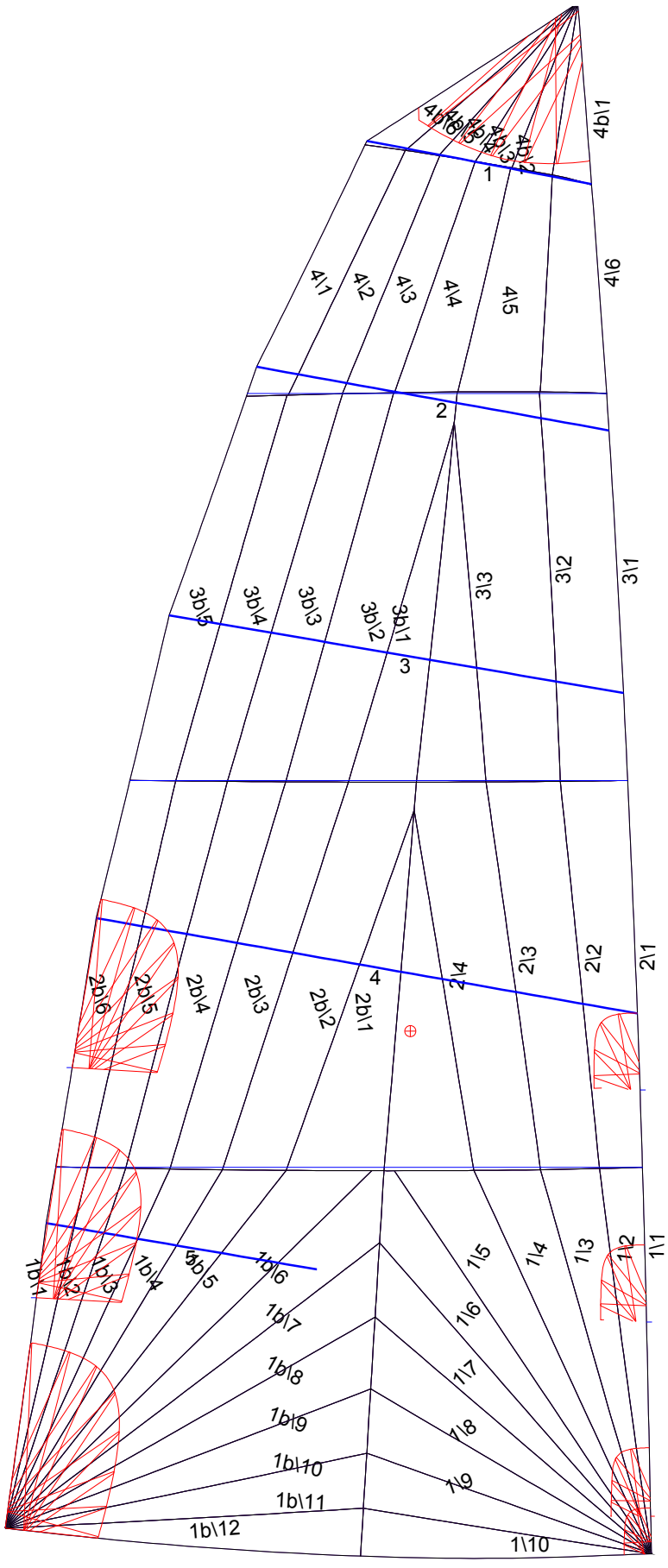


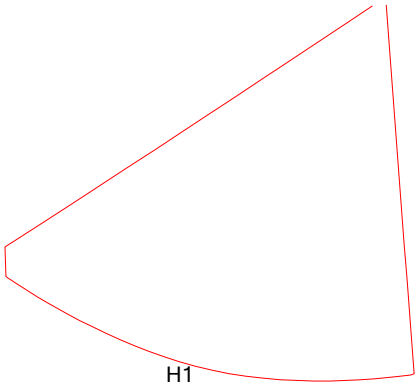
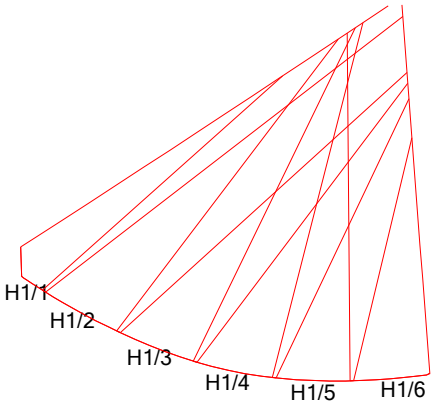
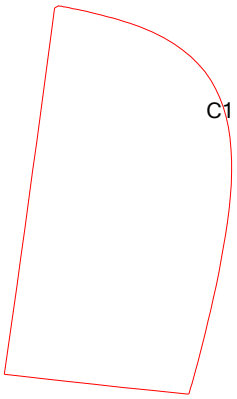
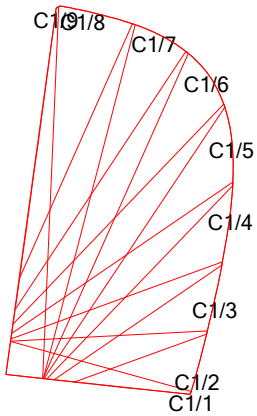
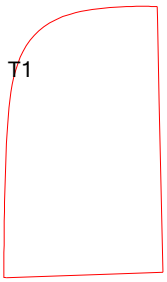
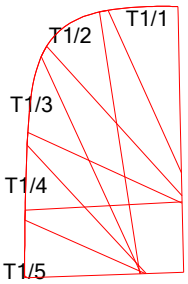
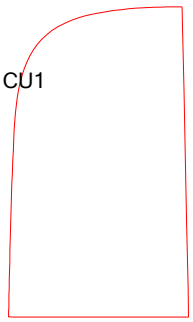
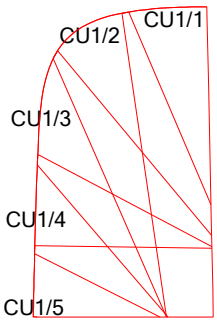
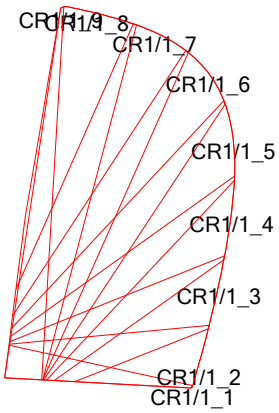
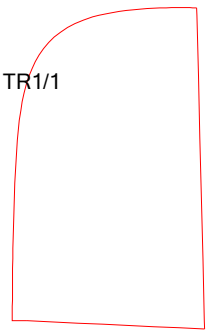
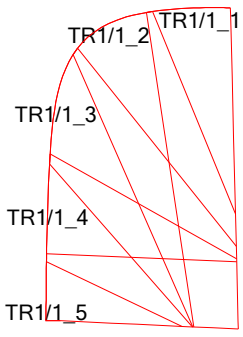
Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.115Ft	0.049Ft	0.115Ft
Zone: 1/b	0.115Ft	0.049Ft	0.115Ft
Zone: 2/a	0.115Ft	0.049Ft	0.115Ft
Zone: 2/b	0.115Ft	0.049Ft	0.115Ft
Zone: 3/a	0.115Ft	0.049Ft	0.115Ft
Zone: 3/b	0.115Ft	0.049Ft	0.115Ft
Zone: 4/a	0.115Ft	0.049Ft	0.115Ft
Zone: 4/b	0.115Ft	0.049Ft	0.115Ft

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Materials

Material	Area (Ft?	Panels
Material 2	337.75	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 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\1,2\2,2\3 2\4,2b\1,2b\2,2b\3,2b\4 2b\5,2b\6,3\1,3\2,3\3 3b\1,3b\2,3b\3,3b\4,3b\5 4\6,4\5,4\4,4\3,4\2 4\1,4b\1,4b\2,4b\3,4b\4 4b\5,4b\6

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