

Mainsail: 6000111 Charles-1 Main

Design Info
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Design File:
E:\dropbox\Dropbox\Fareast Sails\2022 Order\6000111 Charles\6000111 Charles-1 Main.des

Initial Design Date: 18/1/2022
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	33.848Ft
Leech geodesic:	35.412Ft
Foot geodesic:	11.385Ft
Head geodesic:	0.377Ft
Upper width (MUW):	2.142Ft
Three-quarter width (MTW):	3.914Ft
Half width (MHW):	6.966Ft
Quarter width (MQW):	9.349Ft
Foot median:	34.344Ft
ORC Mainsail area:	220.928Ft?
Surface area:	224.394Ft?
Clew height:	0.328Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.367Ft	0.605Ft	73.387?	27.065Ft	28.236Ft	Full
60.000%	5.982Ft	0.820Ft	73.387?	20.297Ft	21.177Ft	Full
40.000%	8.061Ft	0.684Ft	73.387?	13.530Ft	14.118Ft	Full
20.000%	9.805Ft	0.376Ft	73.387?	6.764Ft	7.059Ft	Full

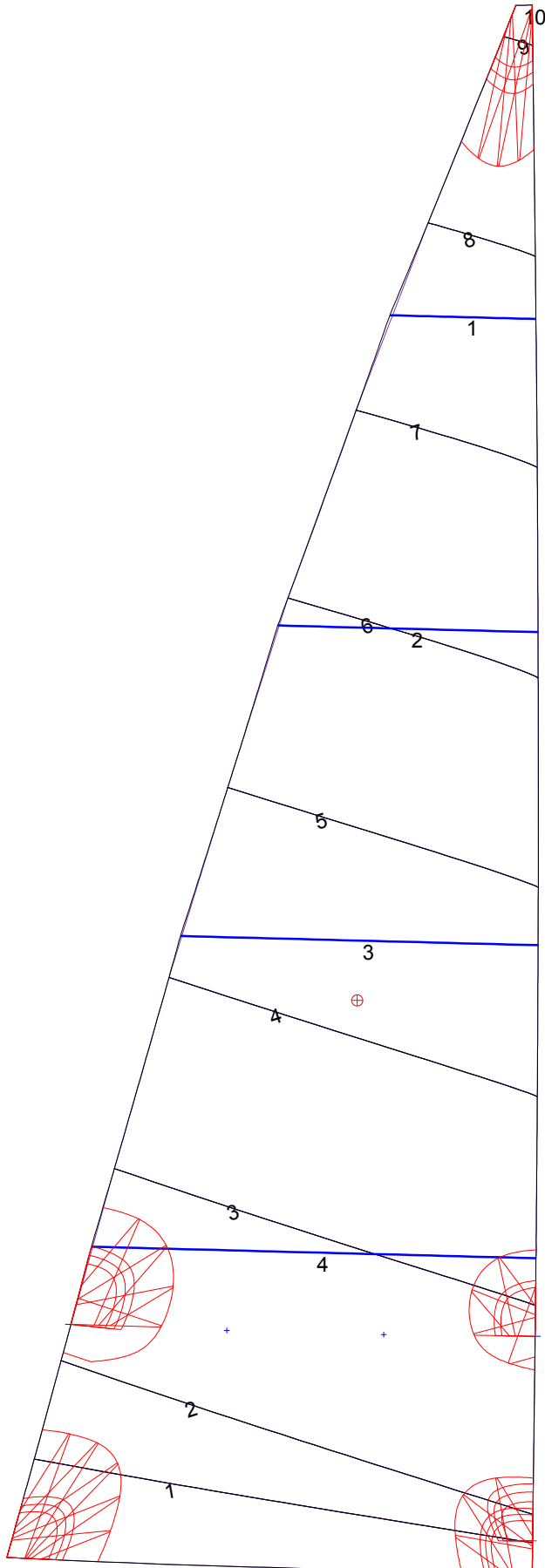
Reefing Points

1, Luff: 5.076Ft ; Leech: 5.254Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.567Ft])	Before BSeam
33.848Ft,	0.000Ft	100% (33.848Ft) :	0.000Ft -0.000Ft
25.386Ft,	-0.098Ft	90% (30.464Ft) :	0.030Ft 0.094Ft
16.923Ft,	-0.131Ft	80% (27.078Ft) :	0.060Ft 0.189Ft
8.462Ft,	-0.098Ft	70% (23.694Ft) :	0.083Ft 0.274Ft
0.000Ft,	0.000Ft	60% (20.309Ft) :	0.095Ft 0.331Ft
		50% (16.924Ft) :	0.097Ft 0.339Ft
		40% (13.539Ft) :	0.090Ft 0.311Ft
		30% (10.154Ft) :	0.076Ft 0.255Ft
		20% (6.769Ft) :	0.054Ft 0.175Ft
		10% (3.385Ft) :	0.025Ft 0.080Ft
		0% (0.000Ft) :	0.000Ft 0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000Ft	0.000Ft	0.082Ft

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

Total Seam Lengths (Ft)

Horizontal	61.20
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	224.43	1,2,3,4,5 6,7,8,9,10