

Mainsail: 7000719 Kimberly-1 Furling boom MainV3.des

Fareast Sails/Michael,

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000719 Kimberly\70

Initial Design Date: 27/7/2023
Boat:

Comments:
Furling Boom

Client:
Fareast Sails/Michael,

Design Data
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Main

Measurements

Luff geodesic: 563.03In
Leech geodesic: 588.26In
Foot geodesic: 190.43In
Head geodesic: 1.18In
Upper width (MUW): 31.47In
Three-quarter width (MTW): 60.09In
Half width (MHW): 110.43In
Quarter width (MQW): 152.14In
Foot median: 568.77In
ORC Mainsail area: 409.458Ft?
Surface area: 413.322Ft?
Clew height: 0.10In
Mast rake: 0.00In

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	46.38In	9.63In	76.273?	459.77In	481.76In	Full
63.150%	87.00In	12.18In	74.273?	354.24In	371.01In	Full
41.584%	126.43In	10.31In	73.273?	234.09In	244.31In	Full
22.401%	156.75In	6.26In	72.273?	128.69In	131.61In	Full

Draft Stripes

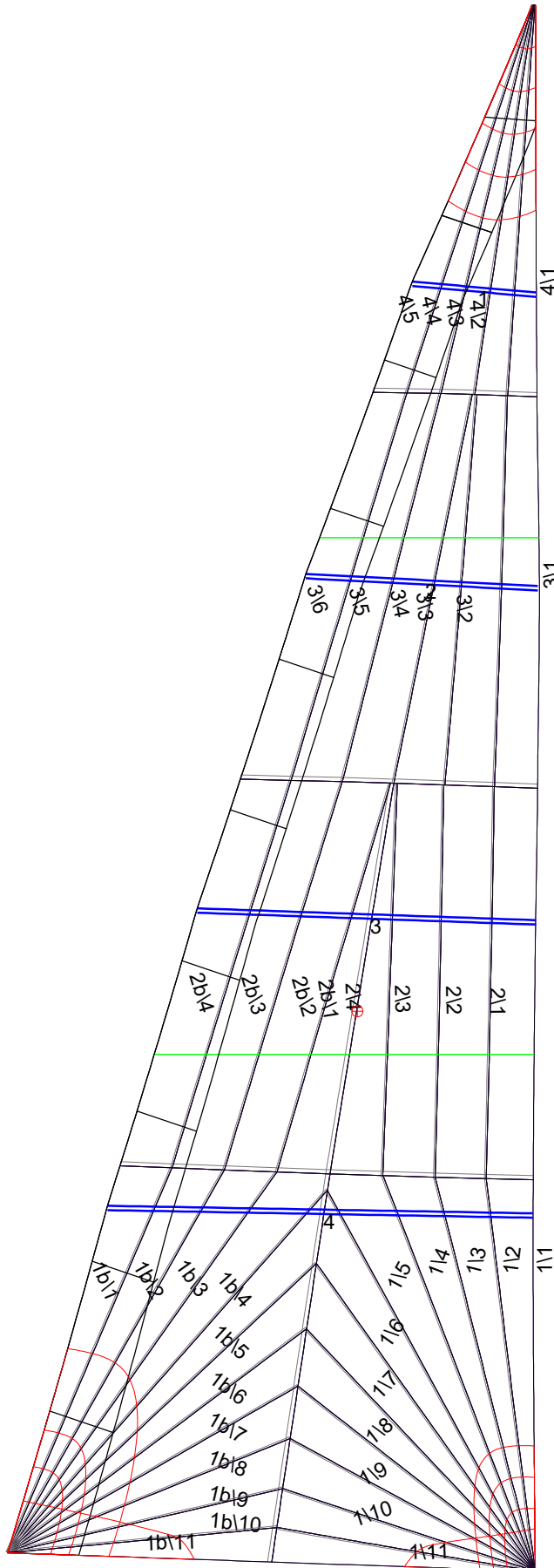
1, Luff: 185.81In ; Leech: 187.00In ;
2, Luff: 371.55In ; Leech: 381.92In ;

Luff Curve

		Fanned Luff (@ 5.00% [9.49In])	Before BSeam
563.02In,	0.00In	100% (563.02In) :	0.00In -0.00In
506.72In,	-0.15In	90% (506.72In) :	-0.03In 0.71In
478.57In,	-0.23In	80% (450.41In) :	0.08In 1.63In
450.42In,	-0.36In	70% (394.11In) :	0.52In 2.89In
422.27In,	-0.56In	60% (337.81In) :	0.88In 3.97In
337.81In,	-1.49In	50% (281.51In) :	0.37In 3.81In
281.51In,	-0.80In	40% (225.21In) :	-0.32In 3.11In
225.21In,	0.00In	30% (168.91In) :	-0.82In 2.18In
168.90In,	0.59In	20% (112.60In) :	-0.99In 1.25In
112.60In,	0.79In	10% (56.30In) :	-0.66In 0.49In
56.30In,	0.51In	0% (0.00In) :	0.00In 0.00In
0.00In,	0.00In		

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	1.496In	0.630In	1.496In
Zone: 1/b	1.496In	0.630In	1.496In
Zone: 2/a	1.496In	0.630In	1.496In
Zone: 2/b	1.496In	0.630In	1.496In
Zone: 3	1.496In	0.630In	1.496In
Zone: 4	1.496In	0.630In	1.496In
Cover 1	0.984In	0.984In	0.984In
Cover 2	0.984In	0.984In	0.984In

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000In	0.000In	0.000In
Cover 0	2.756In	2.756In	3.937In
Cover 1	2.756In	3.937In	2.756In

Total Seam Lengths (In)

Horizontal	324.89
Radial/Vertical	4805.10
Bi-Radial Split	292.46

Materials

Material	Area (Ft ²)	Panels
Material 1	413.56	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1b\1,1b\2,1b\3,1b\4 1b\5,1b\6,1b\7,1b\8,1b\9 1b\10,1b\11,2\1,2\2,2\3 2\4,2b\1,2b\2,2b\3,2b\4 3\1,3\2,3\3,3\4,3\5 3\6,4\1,4\2,4\3,4\4 4\5