

Mainsail: 7000719 Kimberly-1 Furling boom MainV1.des

Fareast Sails/Michael,

Design Info
=====

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
=====

Main

Measurements

Luff geodesic: 563.03In
Leech geodesic: 588.30In
Foot geodesic: 190.43In
Head geodesic: 1.18In
Upper width (MUW): 31.34In
Three-quarter width (MTW): 60.64In
Half width (MHW): 112.06In
Quarter width (MQW): 153.47In
Foot median: 568.79In
ORC Mainsail area: 412.688Ft?
Surface area: 417.135Ft?
Clew height: 0.10In
Mast rake: 0.00In

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	51.19In	10.40In	76.273?	448.30In	470.01In	Full
60.000%	94.71In	13.50In	74.273?	336.39In	352.51In	Full
40.000%	131.05In	11.91In	73.273?	225.18In	235.00In	Full
20.000%	161.72In	6.87In	72.273?	115.25In	117.50In	Full

Draft Stripes

1, Luff: 185.81In ; Leech: 186.54In ;
2, Luff: 371.55In ; Leech: 381.73In ;

Luff Curve

		Fanned Luff (@ 5.00% [9.49In])	Before BSeam
563.02In,	0.00In	100% (563.02In) :	-0.00In
506.72In,	-0.15In	90% (506.72In) :	-0.05In
478.57In,	-0.23In	80% (450.41In) :	0.05In
450.42In,	-0.36In	70% (394.11In) :	0.43In
422.27In,	-0.56In	60% (337.81In) :	0.90In
337.81In,	-1.49In	50% (281.51In) :	0.33In
281.51In,	-0.80In	40% (225.21In) :	-0.36In
225.21In,	0.00In	30% (168.91In) :	-0.86In
168.90In,	0.59In	20% (112.60In) :	-1.01In
112.60In,	0.79In	10% (56.30In) :	-0.68In
56.30In,	0.51In	0% (0.00In) :	0.00In
0.00In,	0.00In		0.00In

Mainsail: 7000719 Kimberly-1 Furling boom MainV1.des

Fareast Sails/Michael,

Seam Allowances

Zone:	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	0.000In	0.000In	0.000In

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000In	0.000In	0.000In
Cover 0	1.969In	2.756In	0.000In

Total Seam Lengths (In)

Horizontal	328.70
Radial/Vertical	4804.58
Bi-Radial Split	292.35

Materials

Material	Area (Ft ²)	Panels
Material 1	417.37	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

