

Mainsail: 7001221 Yves Sun Odyssey 32.1 fullbatt Mainsail.des Fareast Sails/Michael

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7001221 Yves\700

Initial Design Date: 5/1/2024
Boat:
Sun Odyssey 32.1
Client:
Fareast Sails/Michael

Comments:
tack angle 88.5 degree.

Design Data
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Main

Measurements

Luff geodesic: 9.576m
Leech geodesic: 10.129m
Foot geodesic: 3.505m
Head geodesic: 0.115m
Upper width (MUW): 0.582m
Three-quarter width (MTW): 1.068m
Half width (MHW): 2.006m
Quarter width (MQW): 2.809m
Foot median: 9.813m
ORC Mainsail area: 18.404m?
Surface area: 18.748m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
78.040%	0.965m	0.040m	71.859?	7.468m	7.888m	Full
58.664%	1.727m	0.101m	71.859?	5.613m	5.930m	Full
39.030%	2.388m	0.088m	71.859?	3.734m	3.945m	Full
19.654%	2.972m	0.051m	71.859?	1.880m	1.987m	Full

Reefing Points

1, Luff: 1.143m ; Leech: 1.200m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 2.261m ; Leech: 2.370m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 2.393m ; Leech: 2.433m ;
2, Luff: 4.787m ; Leech: 4.966m ;
3, Luff: 7.181m ; Leech: 7.520m ;

Luff Slides

1, Position: 0.813m
2, Position: 2.870m
3, Position: 4.724m
4, Position: 6.655m
5, Position: 8.458m

Luff Curve

		Fanned Luff (@ 5.00% [0.175m])	Before BSeam
9.576m,	0.000m	100% (9.576m) :	0.000m
8.382m,	-0.020m	90% (8.618m) :	0.030m
7.182m,	-0.046m	80% (7.661m) :	0.062m
5.978m,	-0.058m	70% (6.703m) :	0.089m
4.788m,	-0.056m	60% (5.746m) :	0.104m
3.568m,	-0.050m	50% (4.788m) :	0.107m
2.394m,	-0.037m	40% (3.830m) :	0.104m
1.193m,	-0.021m	30% (2.873m) :	0.090m
0.000m,	0.000m	20% (1.915m) :	0.067m
		10% (0.958m) :	0.034m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.40
Radial/Vertical	66.50
Bi-Radial Split	6.11

Materials

Material	Area (m ²)	Panels
Material 1	18.78	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 2\1,2\2,2\3,2b\1,2b\2 2b\3,3\1,3\2,3\3,3\4

