

Mainsail: 7001123 James Mainsail.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001123 James\7001123 James Mainsail.des

Initial Design Date: 13/12/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic: 23.182Ft
 Leech geodesic: 24.600Ft
 Foot geodesic: 8.580Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 1.763Ft
 Three-quarter width (MTW): 3.148Ft
 Half width (MHW): 5.410Ft
 Quarter width (MQW): 7.172Ft
 Foot median: 23.785Ft
 ORC Mainsail area: 117.110Ft?
 Surface area: 120.792Ft?
 Clew height: 0.328Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.804Ft	0.588Ft	90.000?	17.841Ft	19.594Ft	
60.000%	2.297Ft	0.764Ft	90.000?	12.661Ft	14.696Ft	
40.000%	2.297Ft	0.674Ft	90.000?	7.496Ft	9.797Ft	
20.000%	2.297Ft	0.389Ft	90.000?	2.346Ft	4.899Ft	

Reefing Points

1, Luff: 2.827Ft ; Leech: 2.930Ft ; Offset: 0.000Ft ; Number Eyelets: 2
 2, Luff: 6.165Ft ; Leech: 6.386Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 7.648Ft ; Leech: 7.748Ft ;
 2, Luff: 15.297Ft ; Leech: 15.812Ft ;

Luff Slides

1, Position: 2.296Ft
 2, Position: 4.620Ft
 3, Position: 6.944Ft
 4, Position: 9.267Ft
 5, Position: 11.591Ft
 6, Position: 13.915Ft
 7, Position: 16.238Ft
 8, Position: 18.562Ft
 9, Position: 20.886Ft

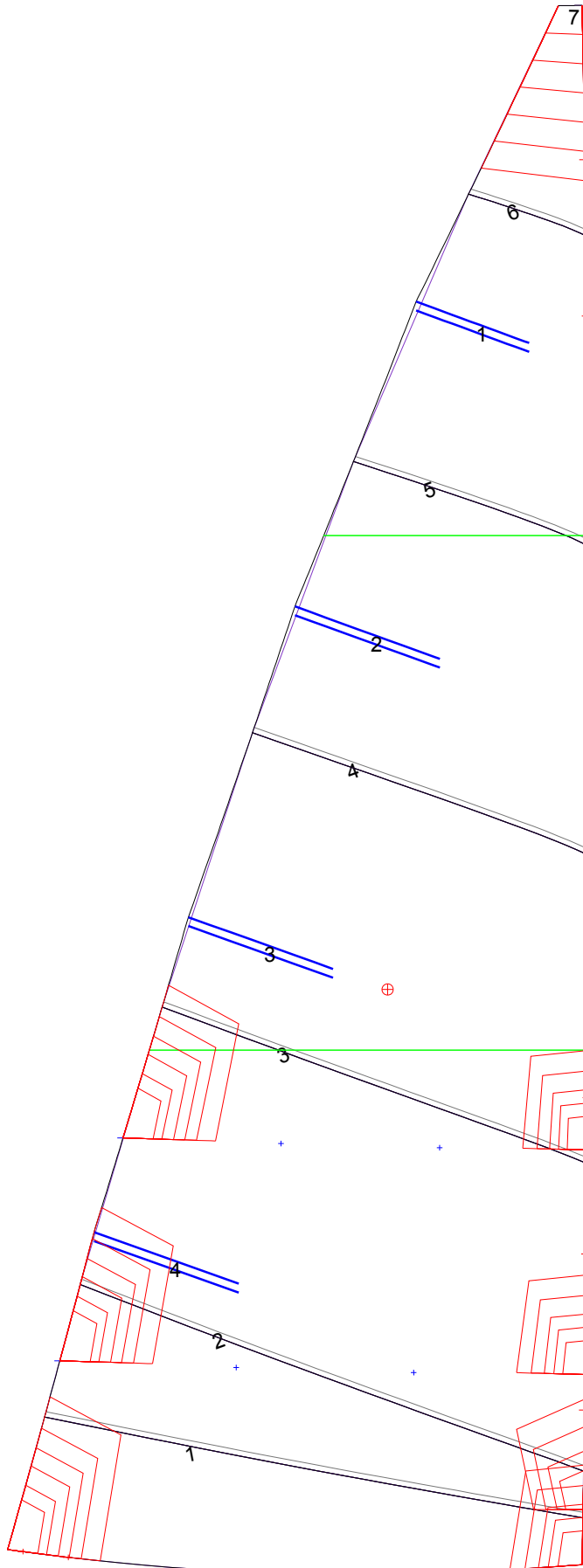
Foot Slides

1, Position: 7.668Ft
 2, Position: 8.351Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.427Ft])	Before BSeam
23.181Ft,	0.000Ft	100% (23.182Ft) :	0.000Ft
20.292Ft,	-0.054Ft	90% (20.864Ft) :	0.087Ft
17.386Ft,	-0.092Ft	80% (18.546Ft) :	0.166Ft
14.472Ft,	-0.108Ft	70% (16.228Ft) :	0.223Ft
11.590Ft,	-0.110Ft	60% (13.909Ft) :	0.252Ft
8.638Ft,	-0.102Ft	50% (11.591Ft) :	0.257Ft
5.795Ft,	-0.081Ft	40% (9.273Ft) :	0.239Ft
2.889Ft,	-0.046Ft	30% (6.955Ft) :	0.200Ft
0.000Ft,	0.000Ft	20% (4.636Ft) :	0.145Ft
		10% (2.318Ft) :	0.076Ft
		0% (0.000Ft) :	0.000Ft

Mainsail: 7001123 James Mainsail.des



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

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

Total Seam Lengths (Ft)

Horizontal	34.69
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	120.44	1,2,3,4,5 6,7