

Mainsail: 8000908-1 Ryan Ben 351 Furling mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000908 Ryan Ben

Initial Design Date: 6/9/2024
Boat:
Bavaria44 IMfurlingmain
Client:

Comments:
tack angle 86.5deg

Design Data
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Main

Measurements

Luff geodesic: 36.516Ft
Leech geodesic: 38.079Ft
Foot geodesic: 13.638Ft
Head geodesic: 0.115Ft
Upper width (MUW): 1.585Ft
Three-quarter width (MTW): 3.118Ft
Half width (MHW): 6.421Ft
Quarter width (MQW): 9.948Ft
Foot median: 36.764Ft
ORC Mainsail area: 240.528Ft?
Surface area: 238.663Ft?
Clew height: 0.985Ft
Mast rake: 0.000Ft

Luff Curve

36.516Ft, 0.000Ft
27.387Ft, 0.024Ft
18.260Ft, 0.033Ft
9.129Ft, 0.024Ft
0.000Ft, 0.000Ft

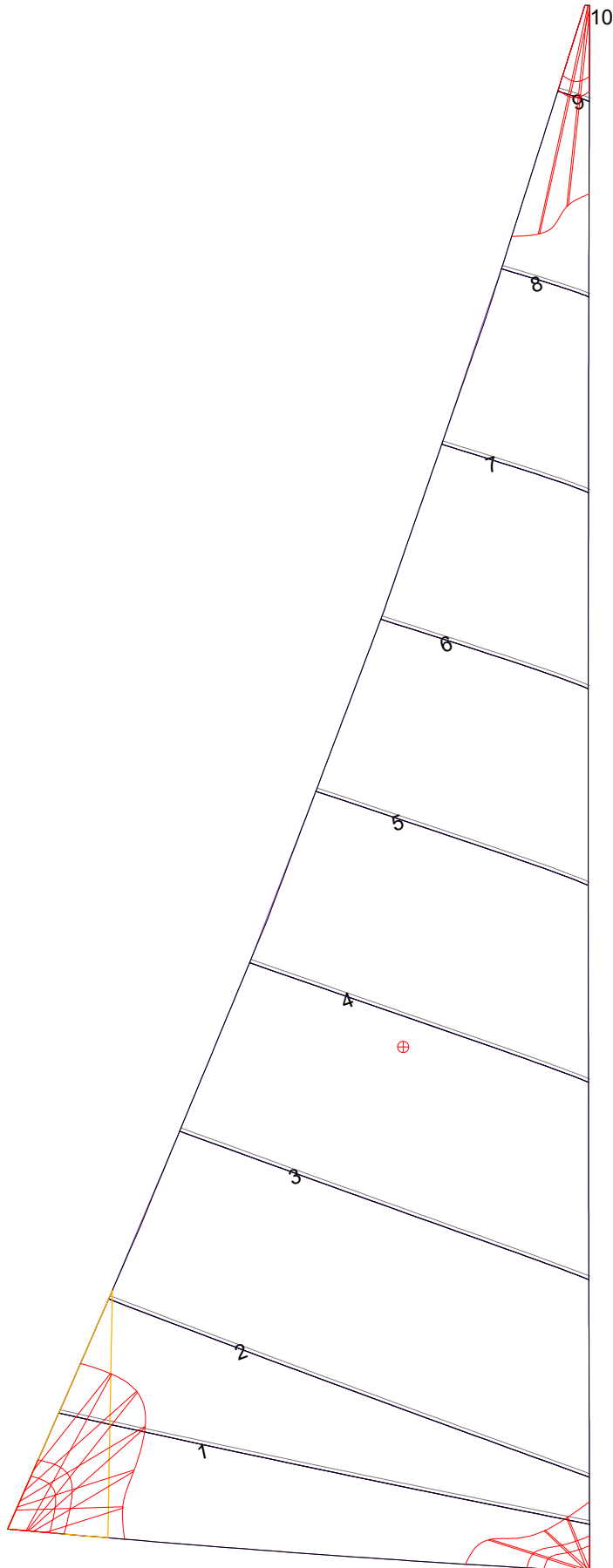
Fanned Luff (@ 5.00% [0.678Ft])

100% (36.516Ft) : 0.000Ft
90% (32.864Ft) : -0.009Ft
80% (29.213Ft) : -0.017Ft
70% (25.561Ft) : -0.024Ft
60% (21.909Ft) : -0.029Ft
50% (18.258Ft) : -0.032Ft
40% (14.606Ft) : -0.034Ft
30% (10.955Ft) : -0.033Ft
20% (7.303Ft) : -0.029Ft
10% (3.651Ft) : -0.019Ft
0% (0.000Ft) : 0.000Ft

Before BSeam

-0.000Ft
0.026Ft
0.052Ft
0.076Ft
0.097Ft
0.112Ft
0.115Ft
0.101Ft
0.076Ft
0.039Ft
0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
1	0.000Ft	0.000Ft	0.082Ft
Cover 1	0.082Ft	0.082Ft	0.082Ft

Edge Excesses

Sail:	Luff	Leech	Foot
0	0.000Ft	0.000Ft	0.000Ft
Cover 0	0.000Ft	0.230Ft	0.230Ft

Total Seam Lengths (Ft)

Horizontal	62.60
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	239.22	1,2,3,4,5 6,7,8,9,10