

# Genoa: 8000239 Nathan 75ft schooner HeadsailV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000239 Nathan h

Initial Design Date: 2/4/2024  
Boat:

Comments:

Client:

Design Data  
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## Genoa

### Measurements

Luff geodesic: 42.667Ft  
Leech geodesic: 40.236Ft  
Foot geodesic: 34.182Ft  
Headboard width: 0.200Ft  
Luff perpendicular (HLP): 30.800Ft  
Upper width (HUW): 3.651Ft  
Three-quarter width (HTW): 7.271Ft  
Half width (HHW): 14.936Ft  
Quarter width (HQW): 22.861Ft  
Foot median: 39.208Ft  
ORC Headsail area: 646.863Ft?  
IRC Headsail area: 645.170Ft?  
Surface area: 665.924Ft?  
Forestay height: 43.000Ft  
J: 22.000Ft

### Luff Curve

42.663Ft, 0.000Ft  
34.108Ft, 0.162Ft  
25.559Ft, 0.224Ft  
17.024Ft, 0.204Ft  
8.505Ft, 0.128Ft  
0.000Ft, 0.000Ft

Fanned Luff (@ 5.00% [1.681Ft])		Before BSeam
100% (42.663Ft) :	0.000Ft	-0.000Ft
90% (38.393Ft) :	-0.087Ft	0.119Ft
80% (34.134Ft) :	-0.168Ft	0.234Ft
70% (29.864Ft) :	-0.217Ft	0.354Ft
60% (25.599Ft) :	-0.240Ft	0.454Ft
50% (21.332Ft) :	-0.245Ft	0.505Ft
40% (17.065Ft) :	-0.234Ft	0.503Ft
30% (12.797Ft) :	-0.207Ft	0.450Ft
20% (8.535Ft) :	-0.159Ft	0.353Ft
10% (4.259Ft) :	-0.088Ft	0.210Ft
0% (0.000Ft) :	0.000Ft	0.000Ft

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## Seam Allowances

	Split	Radial	Cross
Zone: 1	0.131Ft	0.131Ft	0.131Ft
Zone: 2	0.131Ft	0.131Ft	0.131Ft
Cover 1	0.082Ft	0.082Ft	0.082Ft
Cover 2	0.082Ft	0.082Ft	0.082Ft
Cover 3	0.000Ft	0.000Ft	0.000Ft
Cover 4	0.000Ft	0.000Ft	0.000Ft

## Edge Excesses

	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft
Cover 0	0.230Ft	0.328Ft	0.230Ft
Cover 1	0.230Ft	0.230Ft	0.328Ft
Cover 2	0.000Ft	0.230Ft	0.230Ft
Cover 3	0.000Ft	0.230Ft	0.230Ft

## Total Seam Lengths (Ft)

Horizontal	155.56
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	664.90	1\3,1\2,1\1,2\1,2\2 2\3,2\4,2\5,2\6,2\7

