

# Genoa: 8000239 Nathan 75ft schooner HeadsailV4.des

Design Info  
=====

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

Initial Design Date: 2/7/2024  
Boat:

Comments:

Client:

Design Data  
=====

## Genoa

### Measurements

Luff geodesic: 40.942Ft  
 Leech geodesic: 39.040Ft  
 Foot geodesic: 34.193Ft  
 Headboard width: 0.200Ft  
 Luff perpendicular (HLP): 30.801Ft  
 Upper width (HUW): 3.656Ft  
 Three-quarter width (HTW): 7.281Ft  
 Half width (HHW): 14.942Ft  
 Quarter width (HQW): 22.872Ft  
 Foot median: 37.604Ft  
 ORC Headsail area: 620.953Ft?  
 IRC Headsail area: 619.267Ft?  
 Surface area: 641.283Ft?  
 Forestay height: 43.000Ft  
 J: 22.000Ft

### Luff Curve

40.938Ft, 0.000Ft  
 32.728Ft, 0.162Ft  
 24.525Ft, 0.224Ft  
 16.335Ft, 0.204Ft  
 8.161Ft, 0.128Ft  
 0.000Ft, 0.000Ft

Fanned Luff (@ 5.00% [1.679Ft])		Before BSeam
100% (40.938Ft) :	0.000Ft	-0.000Ft
90% (36.840Ft) :	-0.087Ft	0.100Ft
80% (32.753Ft) :	-0.165Ft	0.203Ft
70% (28.656Ft) :	-0.211Ft	0.322Ft
60% (24.563Ft) :	-0.233Ft	0.432Ft
50% (20.469Ft) :	-0.237Ft	0.500Ft
40% (16.375Ft) :	-0.227Ft	0.513Ft
30% (12.280Ft) :	-0.201Ft	0.467Ft
20% (8.190Ft) :	-0.156Ft	0.366Ft
10% (4.086Ft) :	-0.086Ft	0.214Ft
0% (0.000Ft) :	0.000Ft	0.000Ft

# Genoa: 8000239 Nathan 75ft schooner HeadsailV4.des

## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.131Ft	0.131Ft	0.131Ft
Zone: 2	0.131Ft	0.131Ft	0.131Ft

## Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

## Total Seam Lengths (Ft)

Horizontal	150.31
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	640.41	1\3,1\2,1\1,2\1,2\2 2\3,2\4,2\5,2\6,2\7

