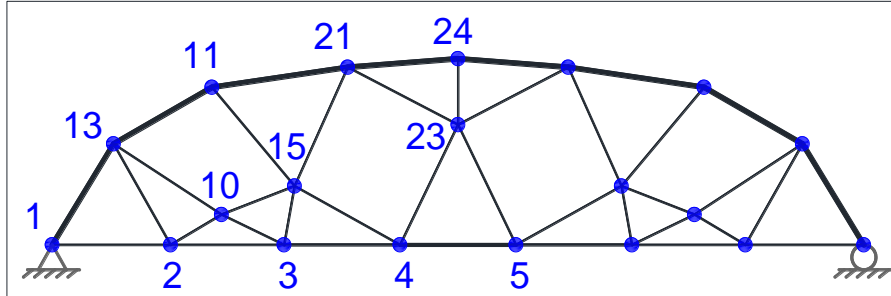


**S3. Data for the best solution found for the 759-bar problem in Variant I**  
**(Weight=27,967 kg)**



Parameter	Value	Parameter	Value	Parameter	Value
$x_{10}$	-20.3633	$A_{1-2}$	10	$A_{10-15}$	6.49
$y_{10}$	2.5562	$A_{2-3}$	10	$A_{11-13}$	32
$x_{11}$	-21.0379	$A_{3-4}$	14.1	$A_{11-15}$	8.85
$y_{11}$	13.0219	$A_{4-5}$	20	$A_{11-21}$	42.7
$x_{13}$	-29.6019	$A_{1-13}$	35.3	$A_{15-21}$	8.85
$y_{13}$	8.4274	$A_{2-10}$	6.49	$A_{21-23}$	8.85
$x_{15}$	-14.0427	$A_{2-13}$	8.85	$A_{21-24}$	35.30
$y_{15}$	4.9075	$A_{3-10}$	6.49	$A_{23-24}$	6.49
$x_{21}$	-9.5590	$A_{3-15}$	6.49		
$y_{21}$	14.6720	$A_{4-15}$	8.85		
$y_{23}^*$	9.9145	$A_{4-23}$	8.85		
$y_{24}^*$	15.3462	$A_{10-13}$	8.85		

Max. Stress Ratio = 1.000

Max. Slenderness Ratio= 0.978

Max. Displacement Ratio= 0.973

\* Node in group 3 (on the symmetry line)