1. Plot the surface profile η vs distance *x*. Describe the shape relative to a typical airfoil you might find.



The above figure was created using the attached Python code and shows the shape of the surface profile, stretched in the *y* direction. The shape is thin and has a long chord length, but is otherwise similar to an airfoil shape, though it is asymmetric in the sense that it comes to a point at the leading edge, and is not mirrored across the positive *x* axis.

2. Select flat panels, using at least 10 along the length of the surface. Draw a sketch showing your panel distribution. Create a table listing your (*x, z*) coordinates at the beginning and end of each panel as well as the locations for vortex placement and collocation points along the surface.