

## Activity 1.2.6 Airfoil Simulation Comparison

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### Constraints

#### Shape Tab

Airfoil Type	Airfoil
Basic Shape	Ellipse
Camber	15 %
Thickness	13 %

#### Flight tab

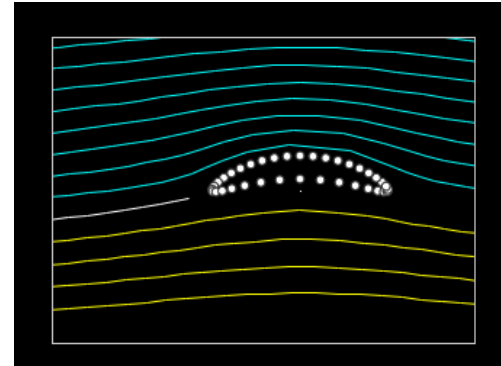
Flight Test	Earth - Average Day
Speed	160.0 kmph
Altitude	0 m

#### Size tab

Chord	1.100 m
Span	6.000 m
Wing area	ft <sup>2</sup>
Aspect Ratio	

Angle of Attack (Degrees)	Cl	Cd
-20	-0.33	0.221
-15	-0.03	0.199
-10	0.58	0.18
-5	1.13	0.206
0	1.63	0.27
5	2.07	0.375
10	2.47	0.536
15	2.54	0.651
20	1.79	0.502

Add an image of the airfoil at 0° angle of



Effect of Angle of Attack on Cl and Cd

