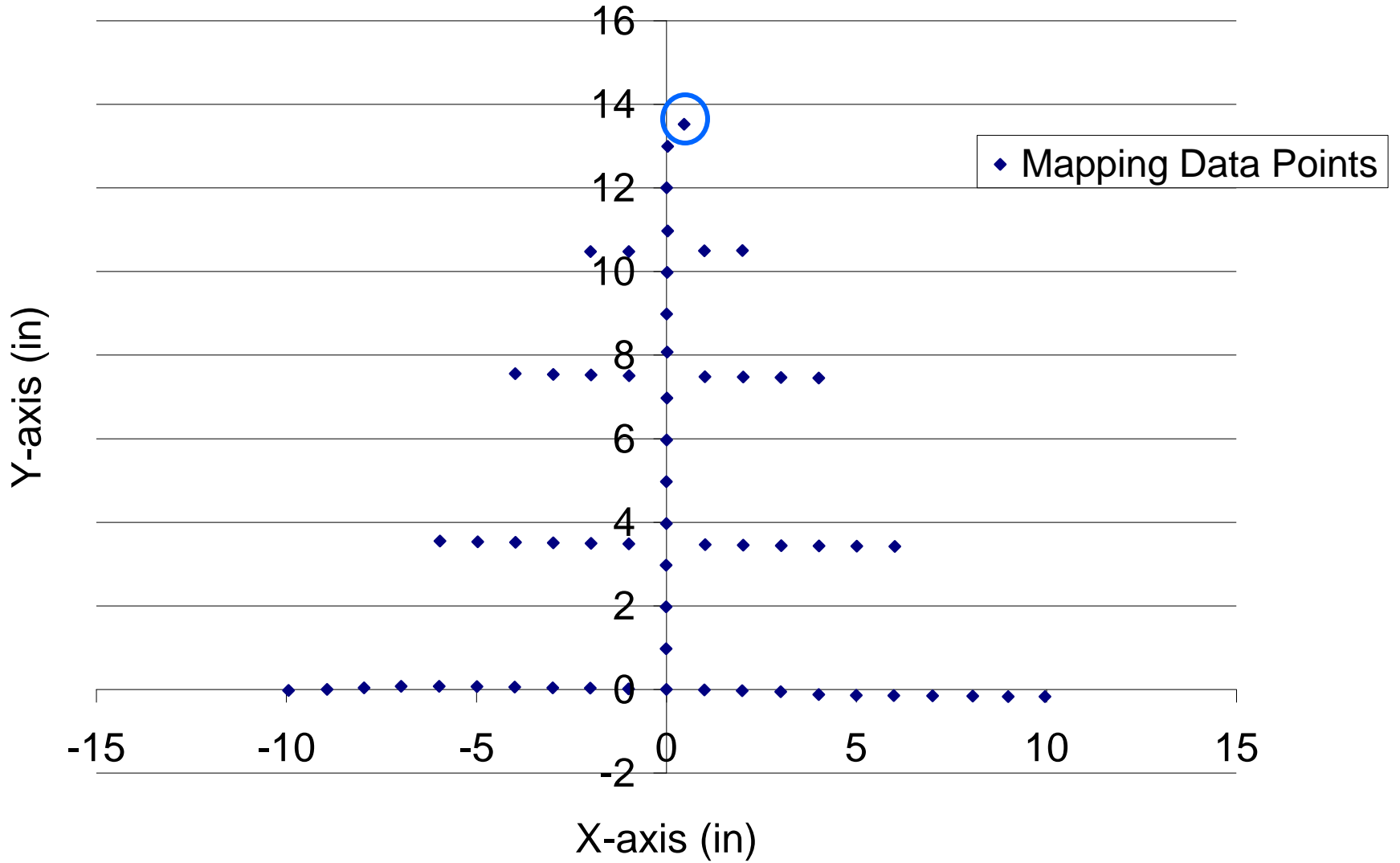
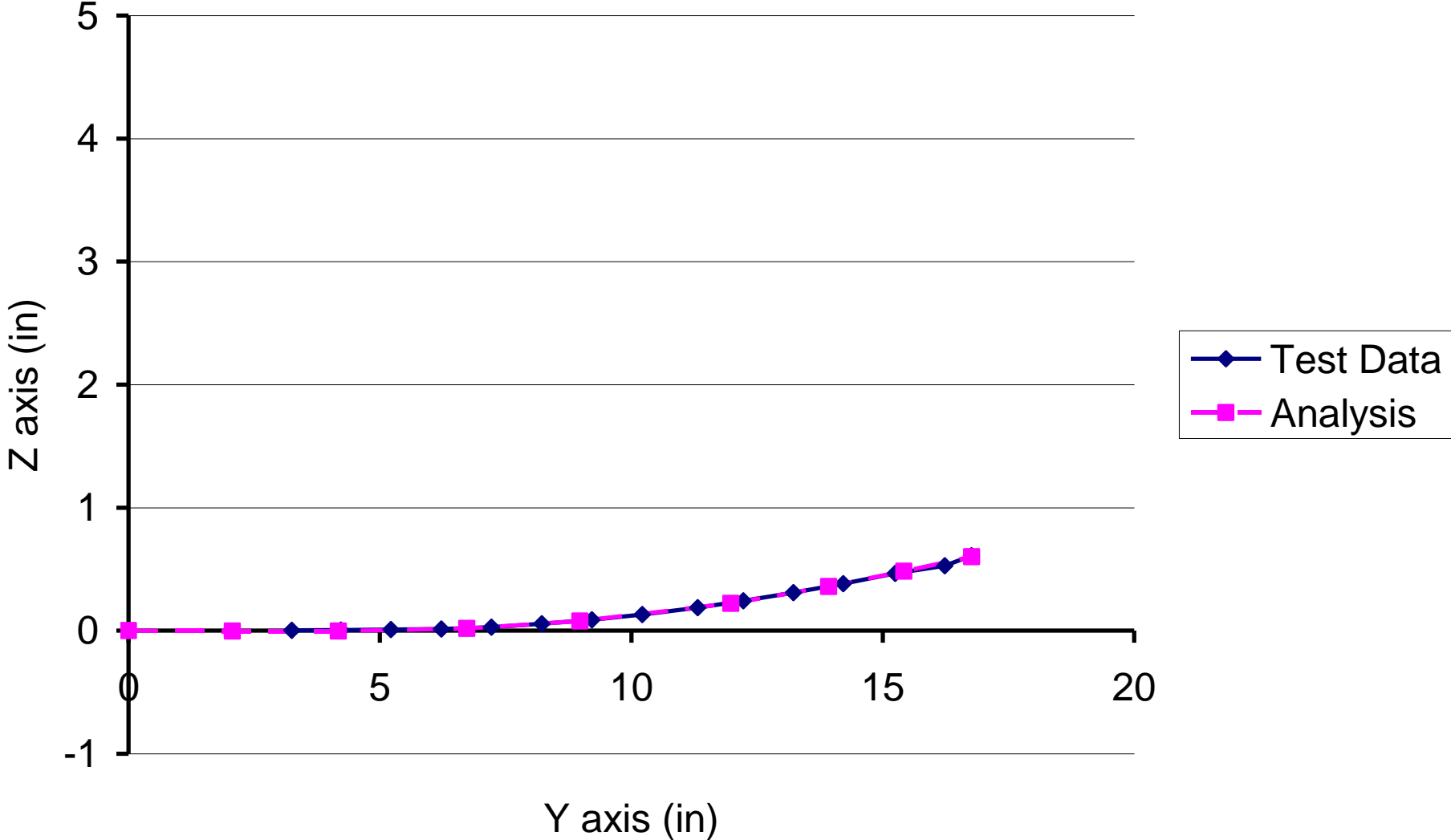


# Chevron Testing

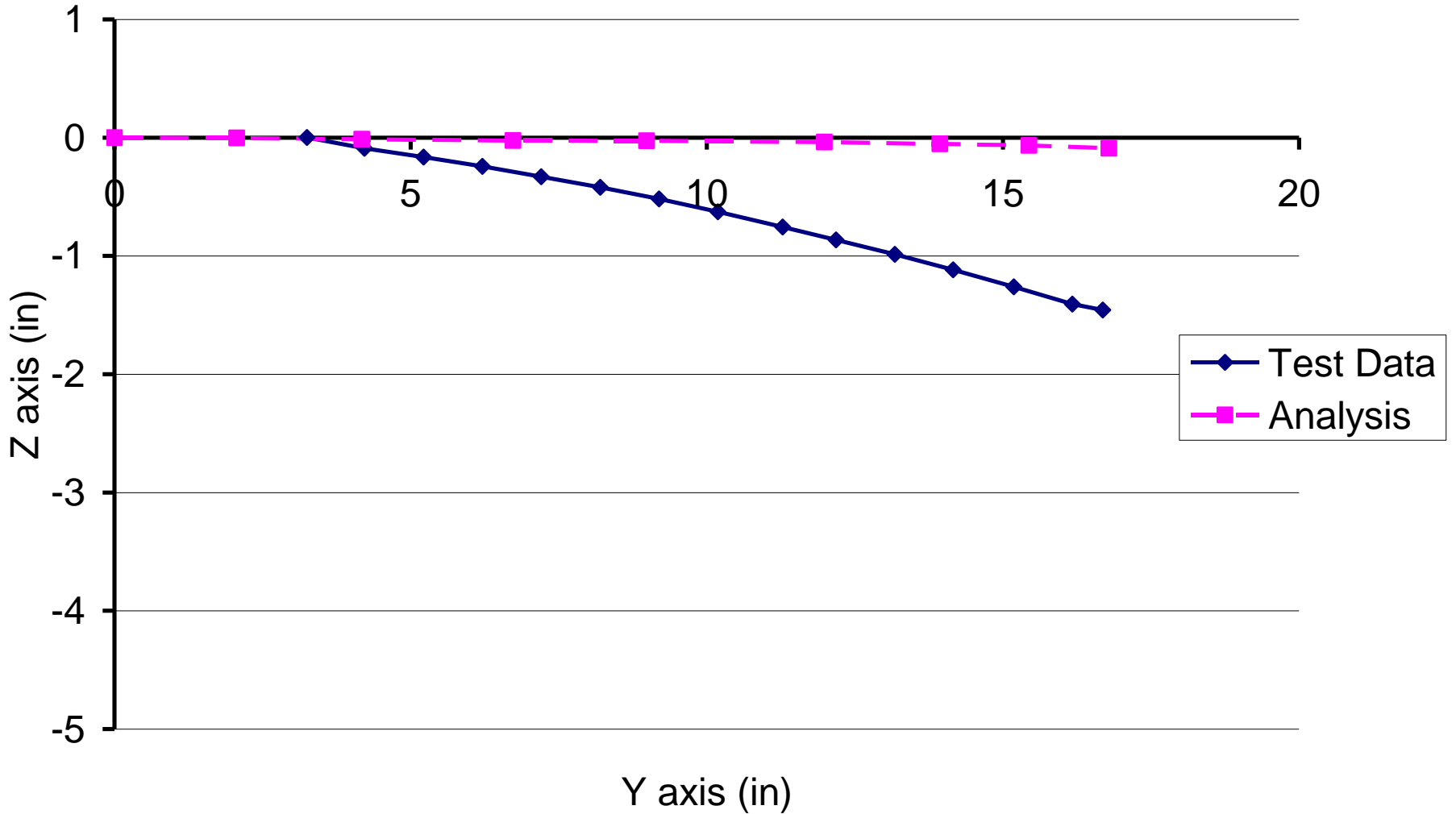


Tip Loading:  
Substrate Only

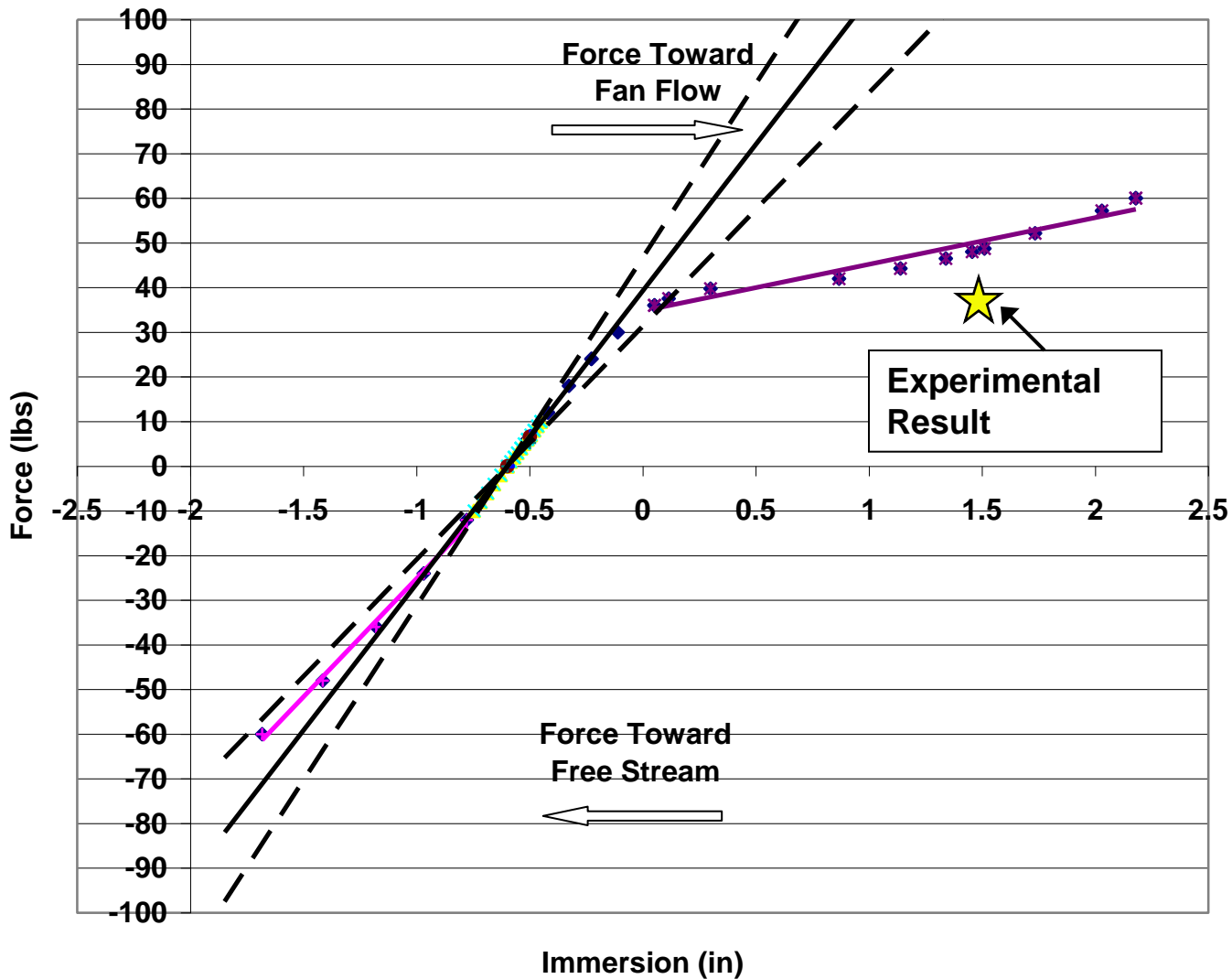
No NiTi: No Load



# NO NiTi: 37 lb Into Fan Flow

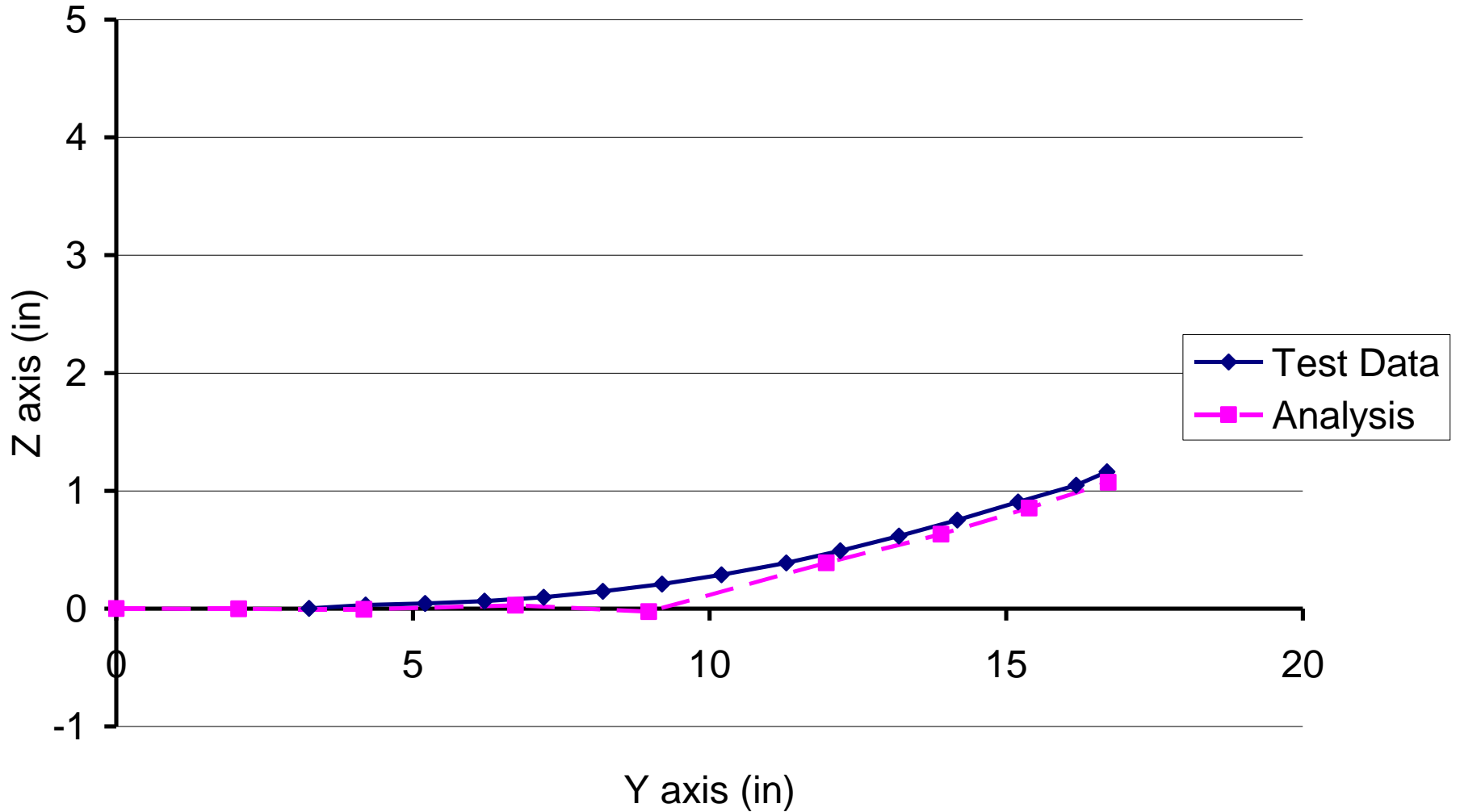


### Substrate Stiffness (Original Model from Boeing)



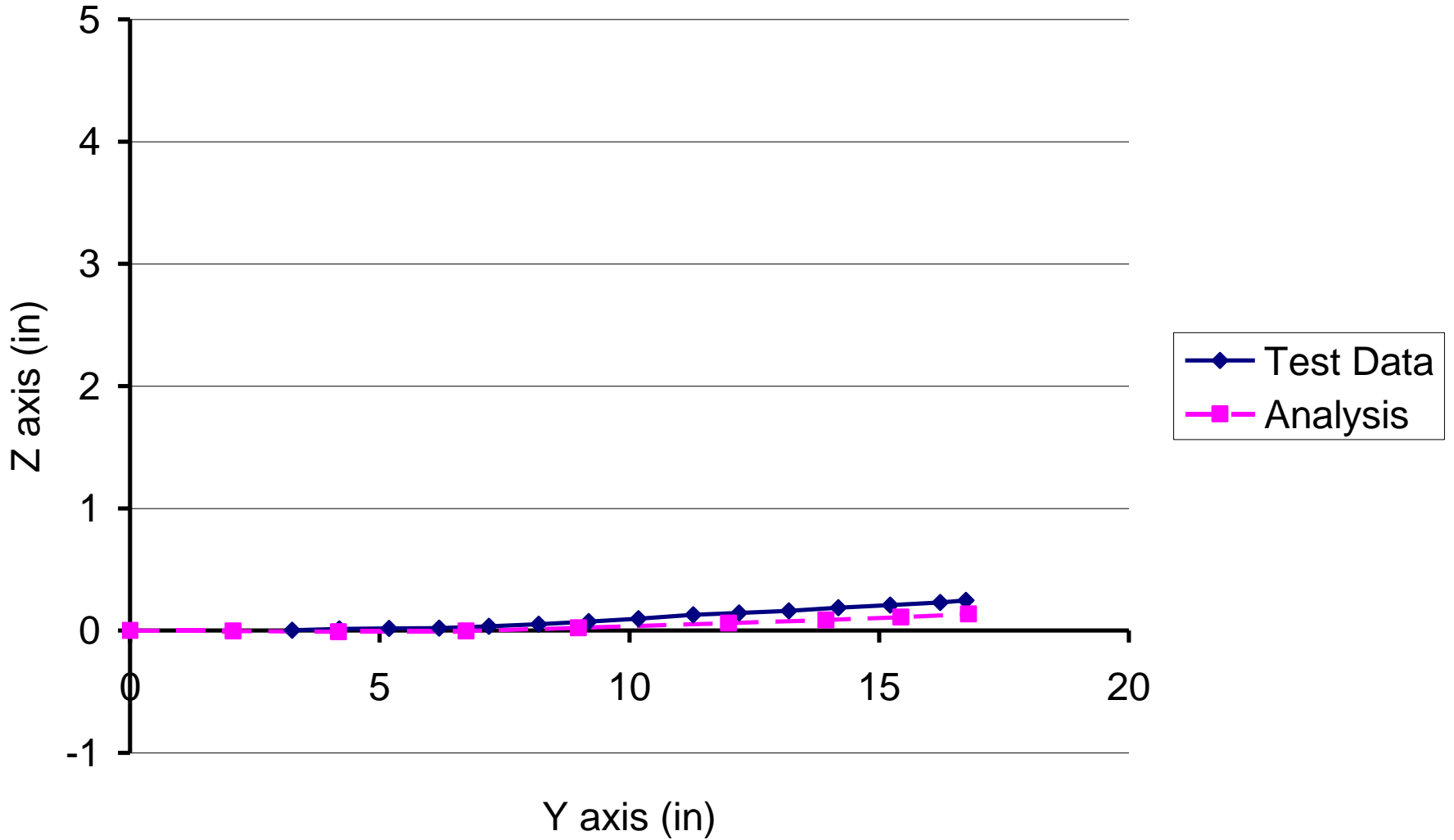
- ◆ Stiffness test
- + Negative Loading  
k=52.981
- ▲ 10 lb load NLGM ON  
k=67.484
- × 10 lbs NLGM OFF  
k=67.797
- \* Tape Measure Effect  
k=10.429
- Tested Mean k=65.6

# No NiTi: 30 lb into Free Stream



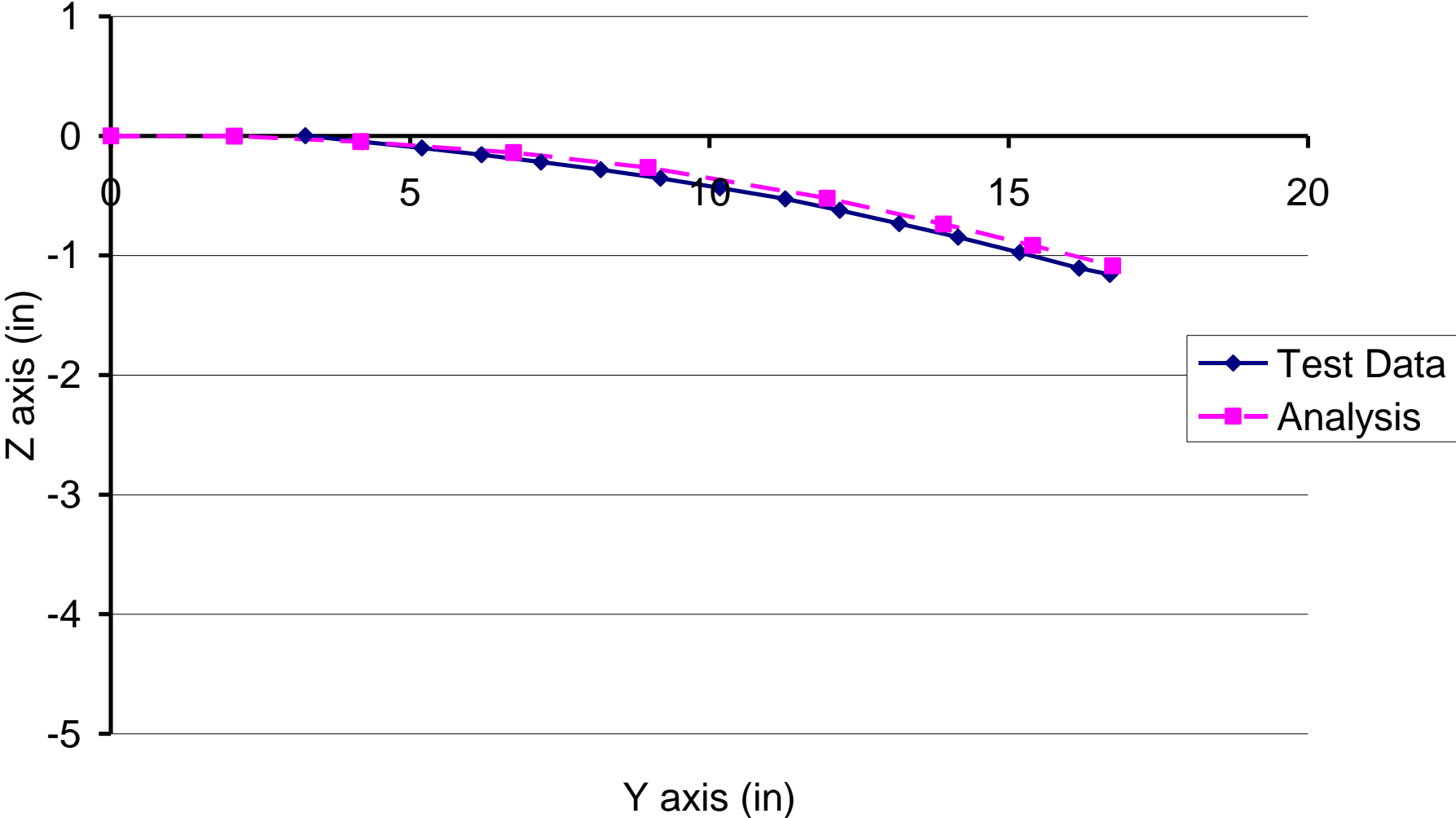
Tip Loading:  
SMA Frozen/Clamped,  $T \rightarrow 20 \text{ C}$

# Cool: No Load

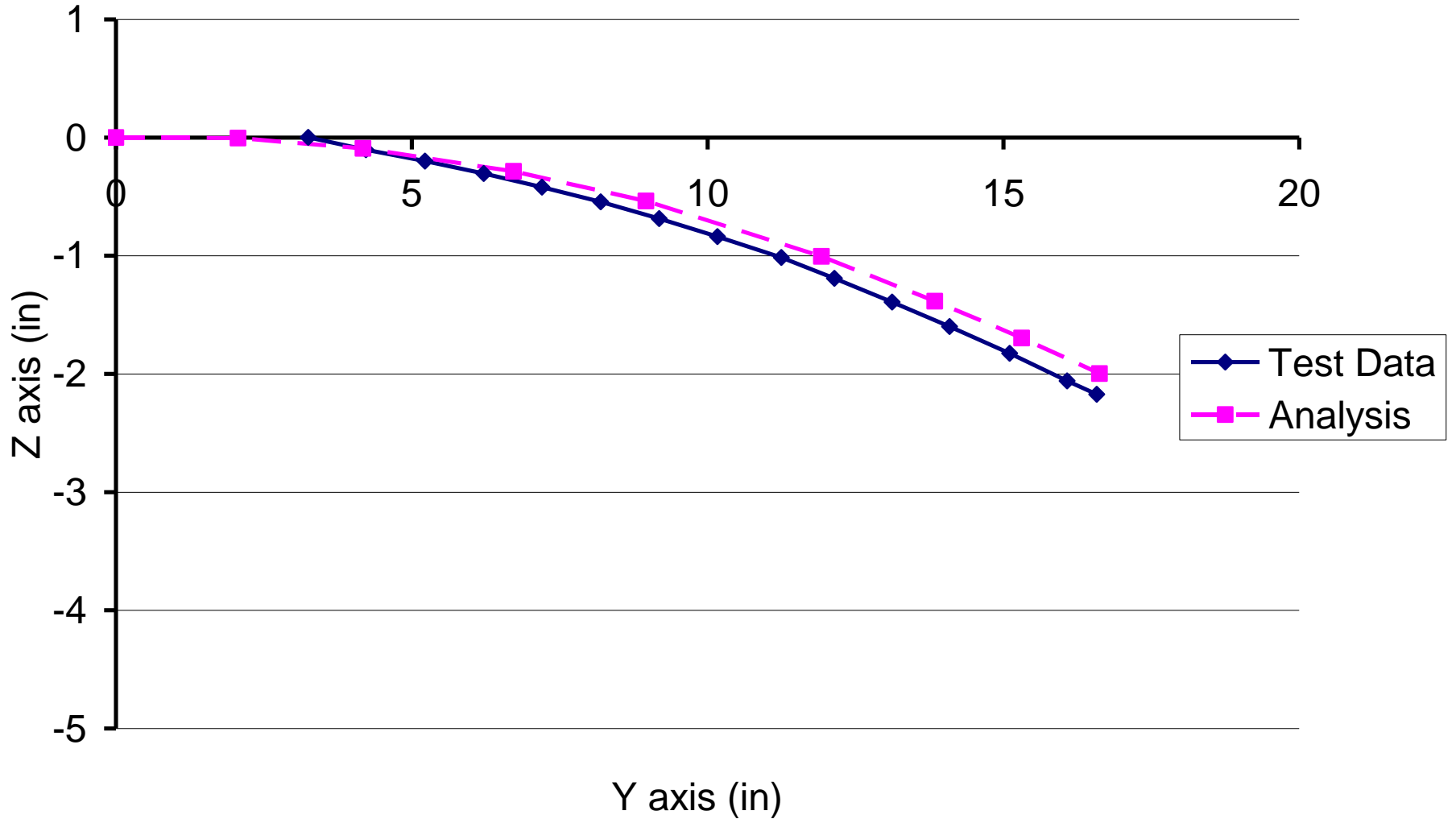




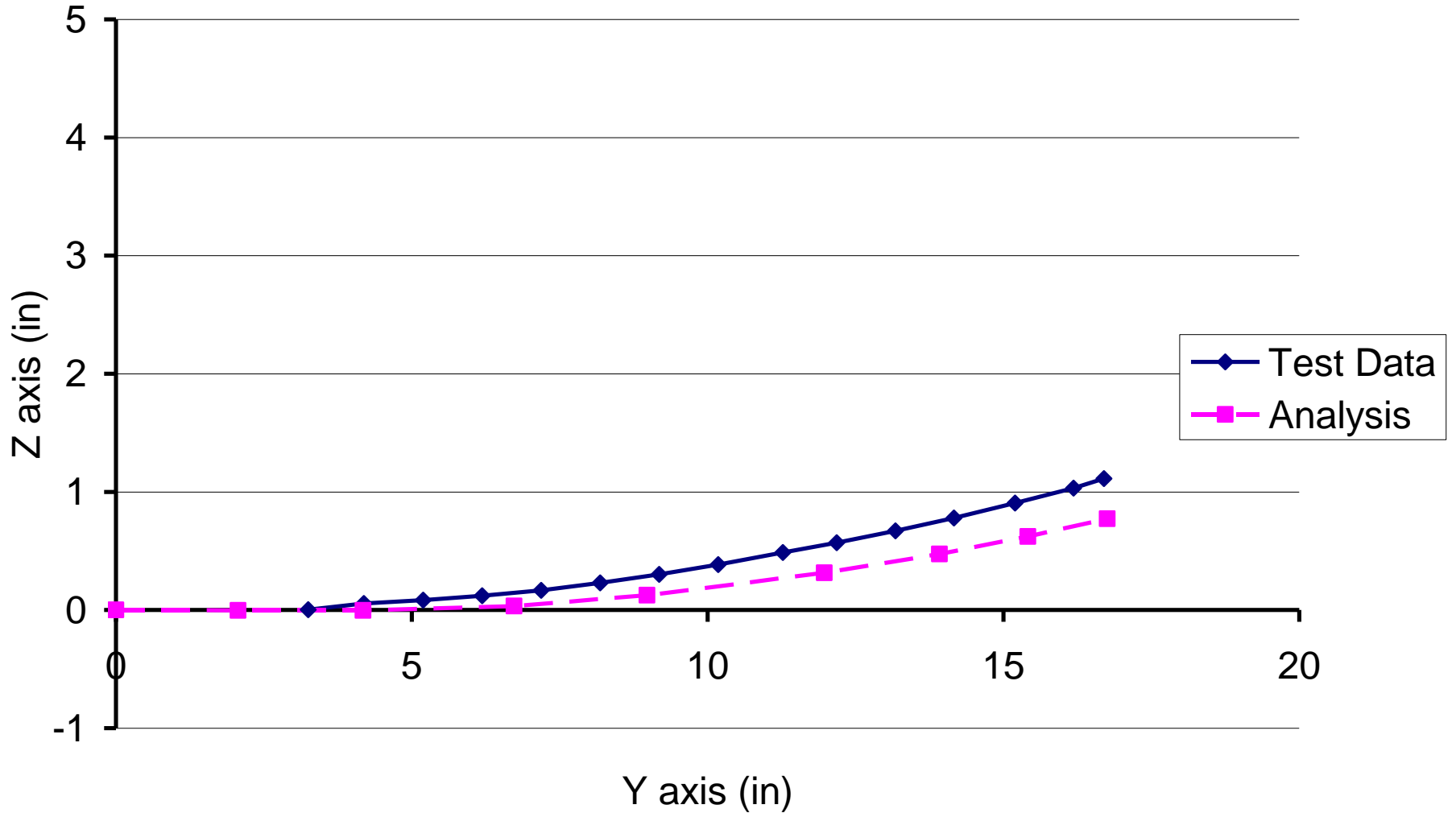
# Cool: 30 lb into Fan Flow



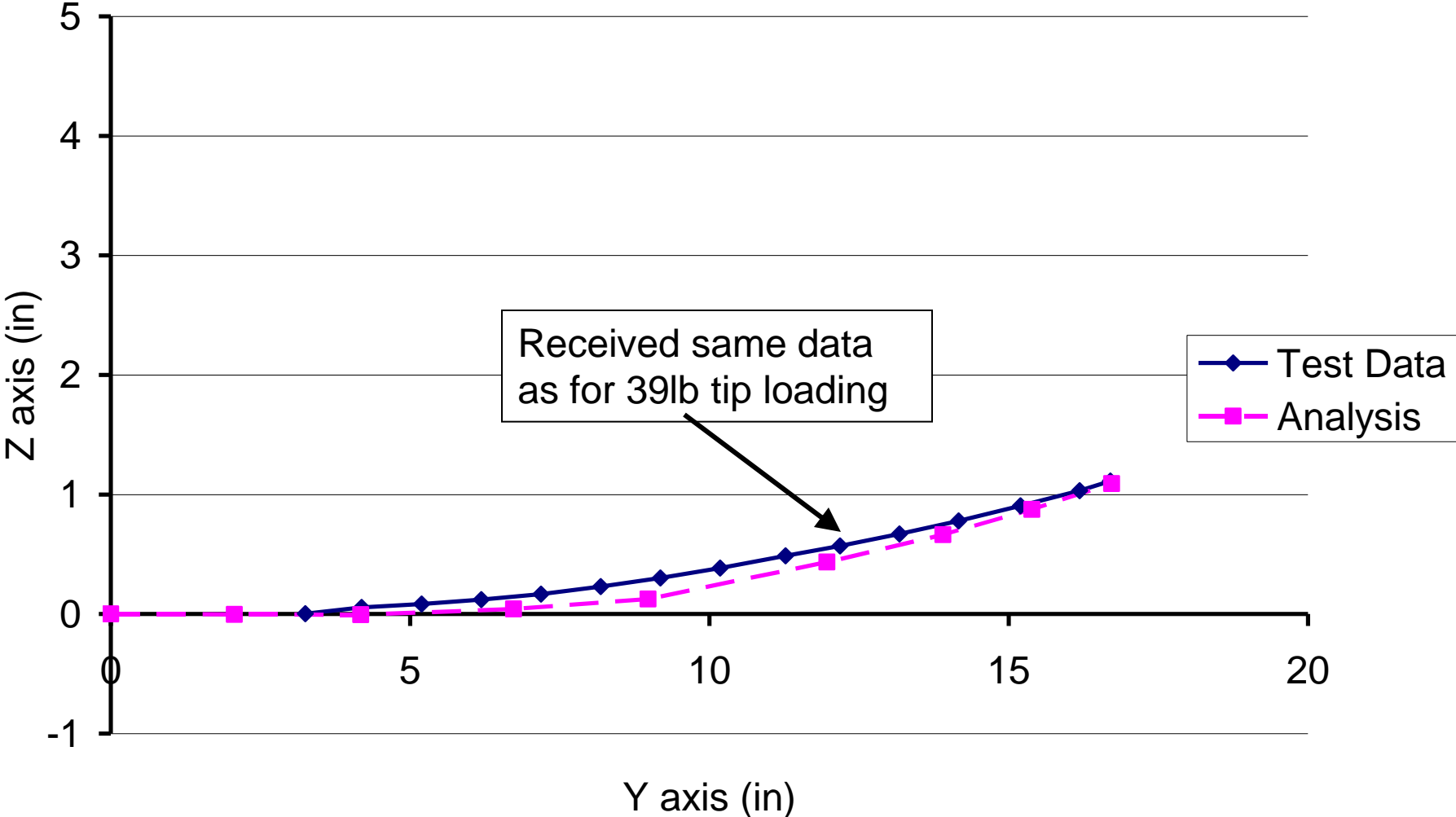
# Cool: 51 lb into Fan Flow



# Cool: 39 lb into Free Stream

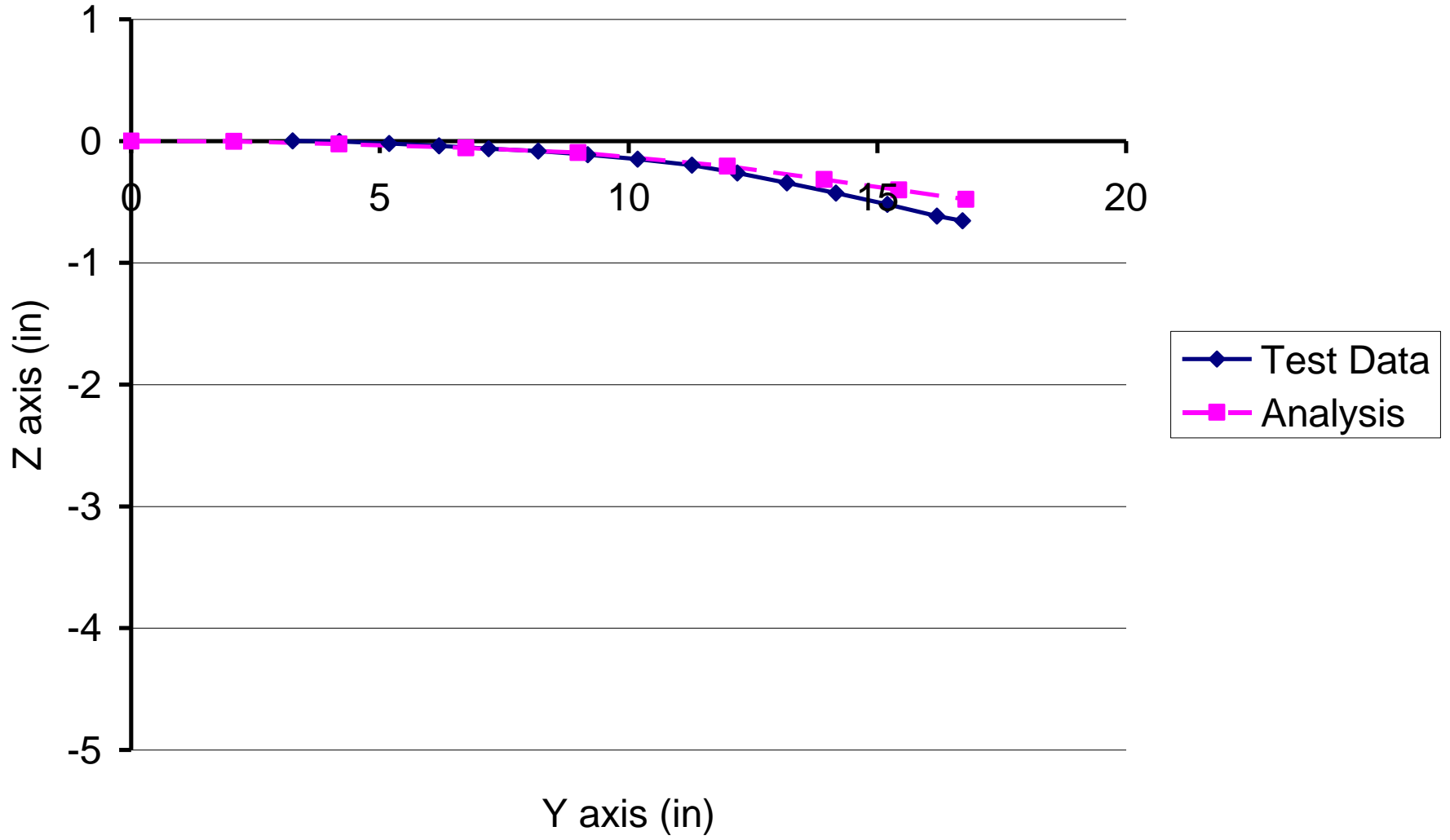


# Cool: 59 lb into Free Stream

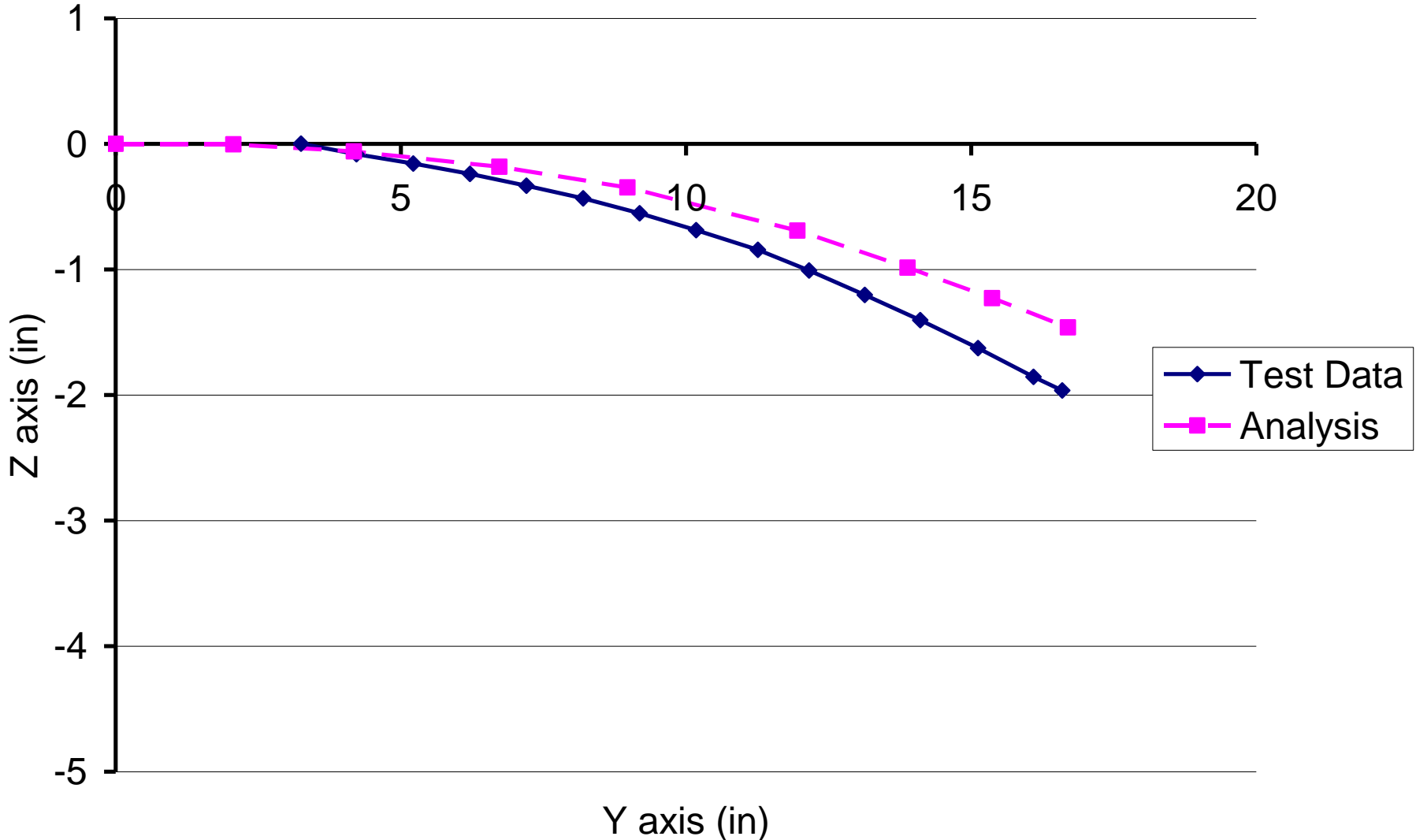


Tip Loading:  
SMA Frozen/Clamped,  $T \rightarrow 80 \text{ C}$

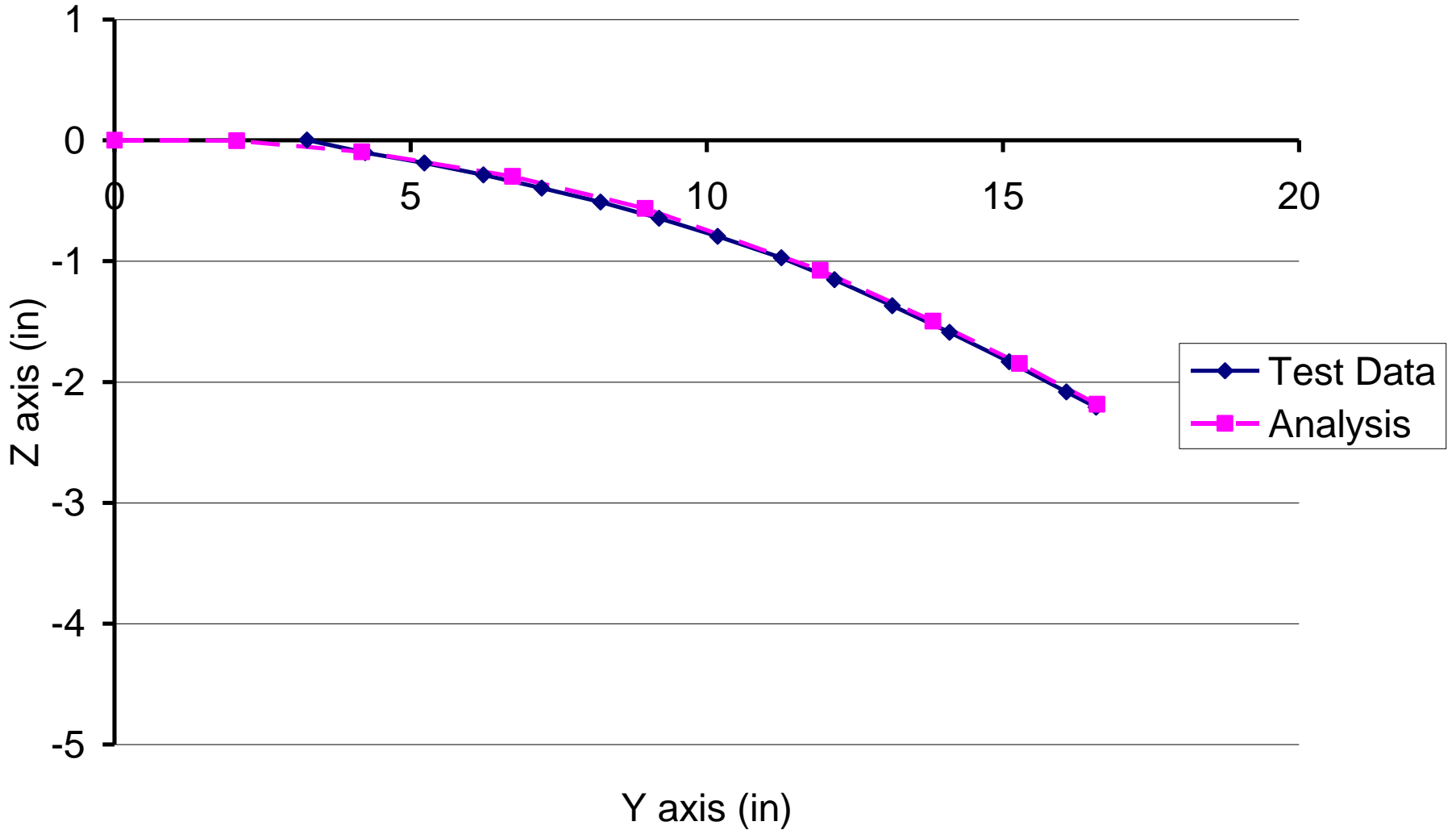
# Hot: No Load



# Hot: 30 lb into Fan Flow

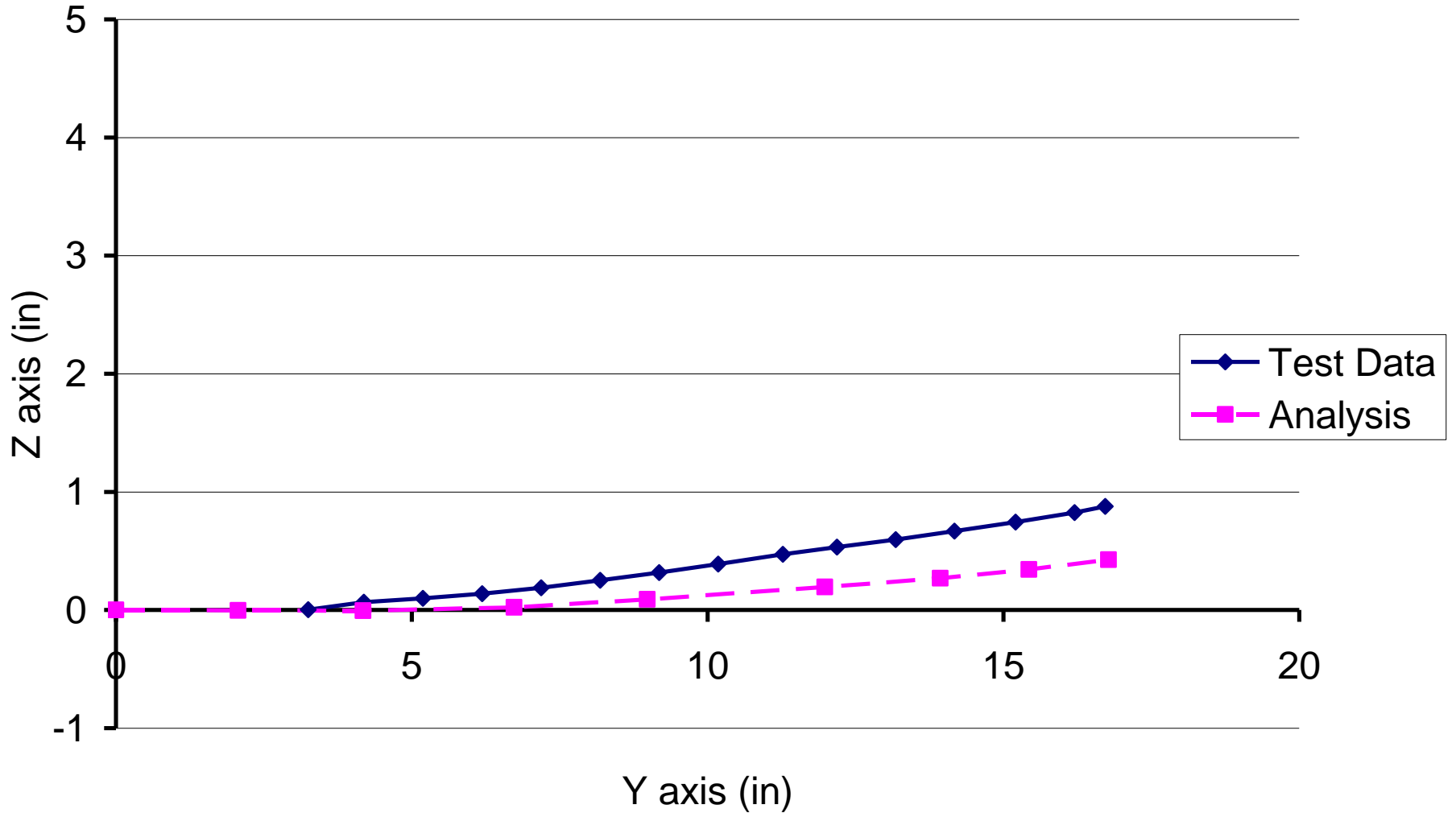


# Hot: 51 lb into Fan Flow





# Hot: 39 lb into Free Stream



# Hot: 60 lb into Free Stream

