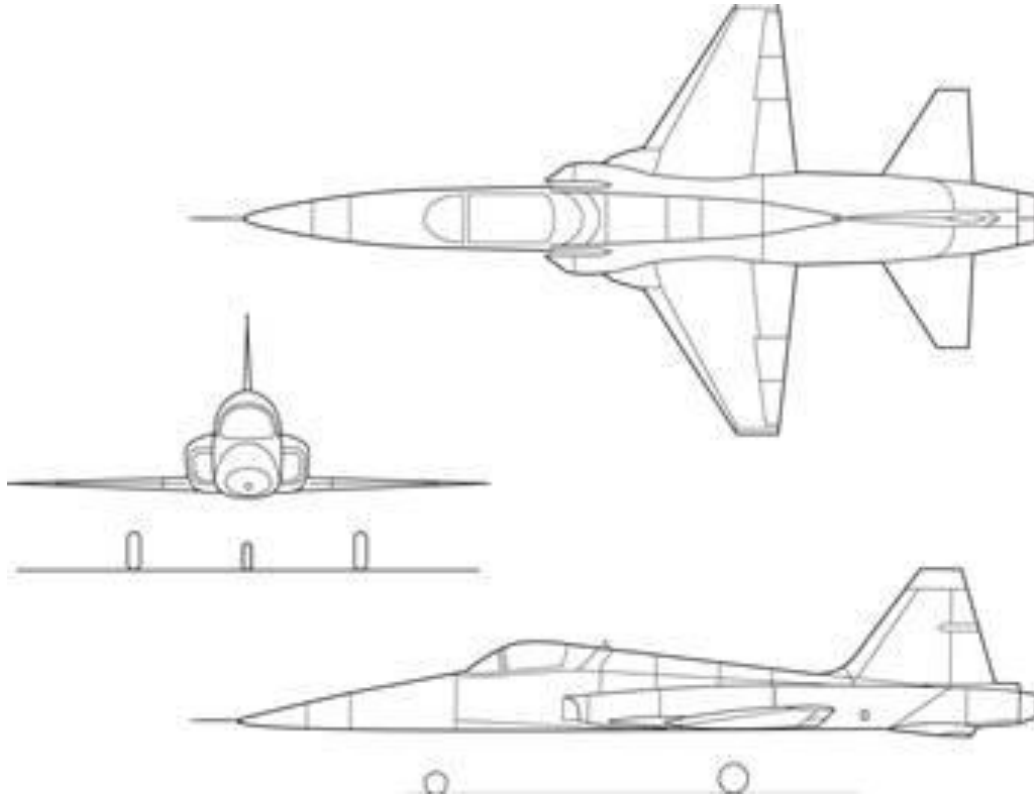


PERFORMANCE ANALYSIS



F-5E-2 Tiger II Northrop Corporation (J85-GE-21)

CAUTION STATEMENT : This document is to be use only for simulation. Do not try to apply the procedures and or advices contained in it if you have the opportunity to fly this plane in real life. By the way, if you had (or still have) flew this aircraft, your comments, criticism and more are welcome

LICENSE : This document has been created by J.M. LANGERON / TOPOLO, (<http://topolo.free.fr/>) all the values used to model the aircraft behavior have been computed by him, like all performance charts presented here. If you want to use these data, or part of it, please contact the author by personal message to TOPOLO on check-six forum: (<http://www.checksix-forums.com/>)

Level Flight Envelope

Level Flight Envelope

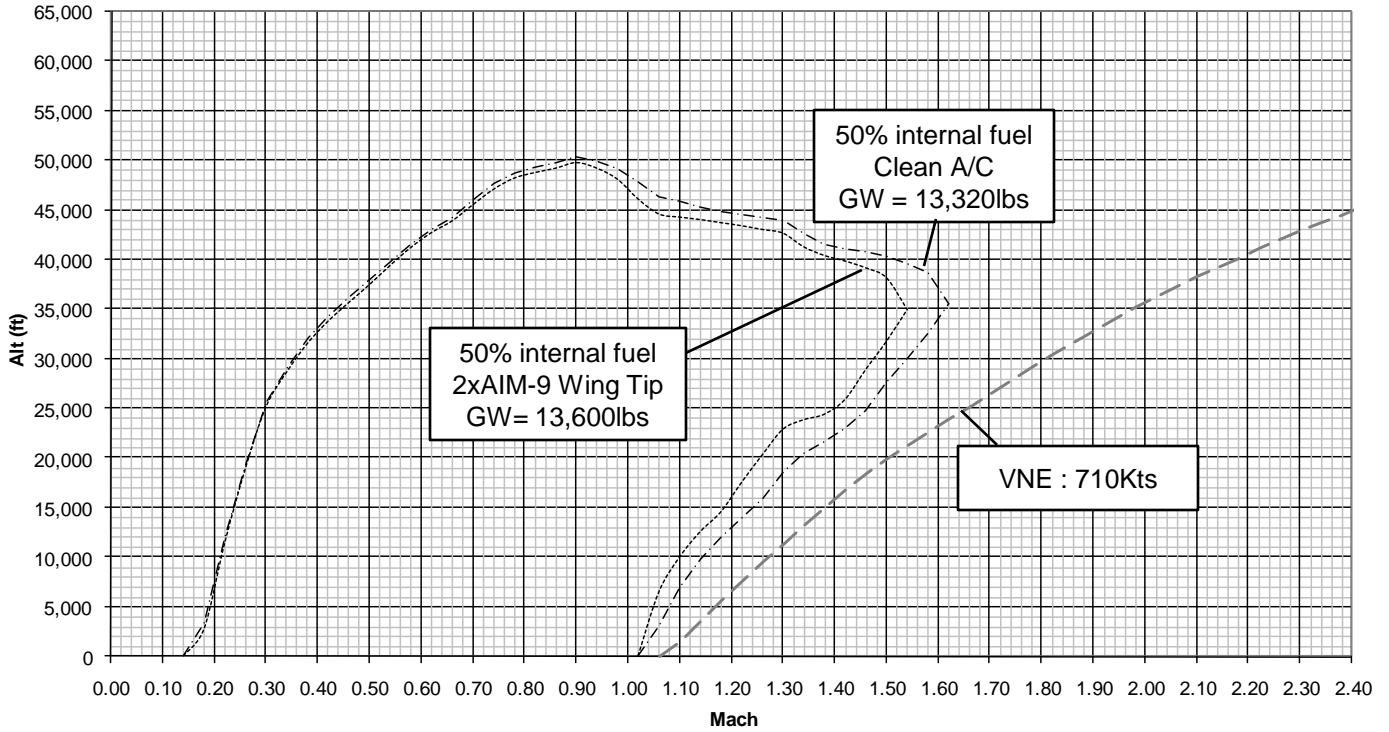
DATA BASIS : ESTIMATED

CONDITIONS:

- Standard Day
- Max AB

Aircraft : NORTHROP F-5E-2

Engine : J85-GE-21



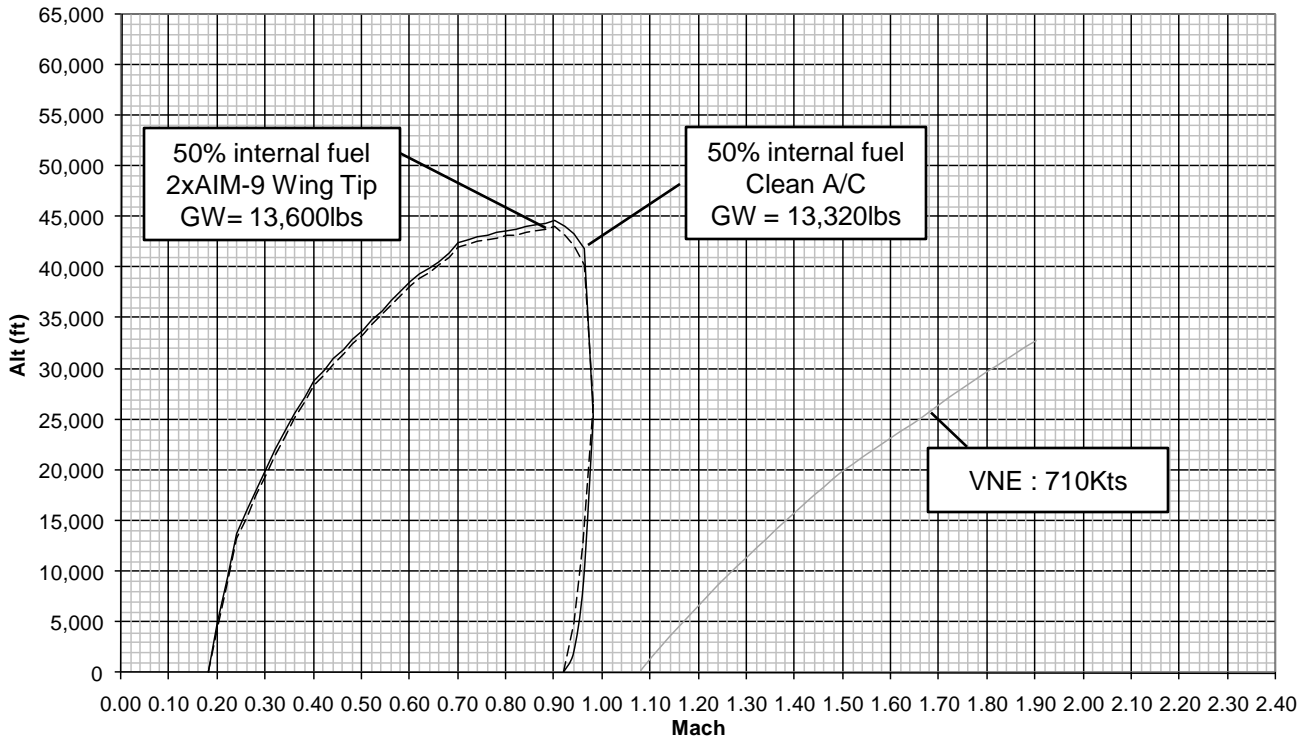
DATA BASIS : ESTIMATED

CONDITIONS:

- Standard Day
- MILL Power

Aircraft : NORTHROP F-5E-2

Engine : J85-GE-21



Turn Performance

Aircraft : NORTHROP F-5E-2

Engine :J85-GE-21

CONFIGURATIONS :

•DRAG INDEX = 18 (2xAIM-9)

•GW= 13,600 lbs

F-5E-2 do not have AutoFlaps capabilities, so flaps and slats are positioned according following rules:

<i>CAS < 200Kts</i>	<i>Flaps +24</i>	<i>Slats +20</i>
<i>CAS in [200Kts;250Kts]</i>	<i>Flaps +18</i>	<i>Slats +16</i>
<i>CAS in [250Kts;550Kts]</i>	<i>Flaps +12</i>	<i>Slats +8</i>
<i>CAS > 550Kts</i>	<i>Flaps 0</i>	<i>Slats 0</i>

Turn Rate – Summary

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2

Engine : J85-GE-21

CONDITIONS:

•Standard Day

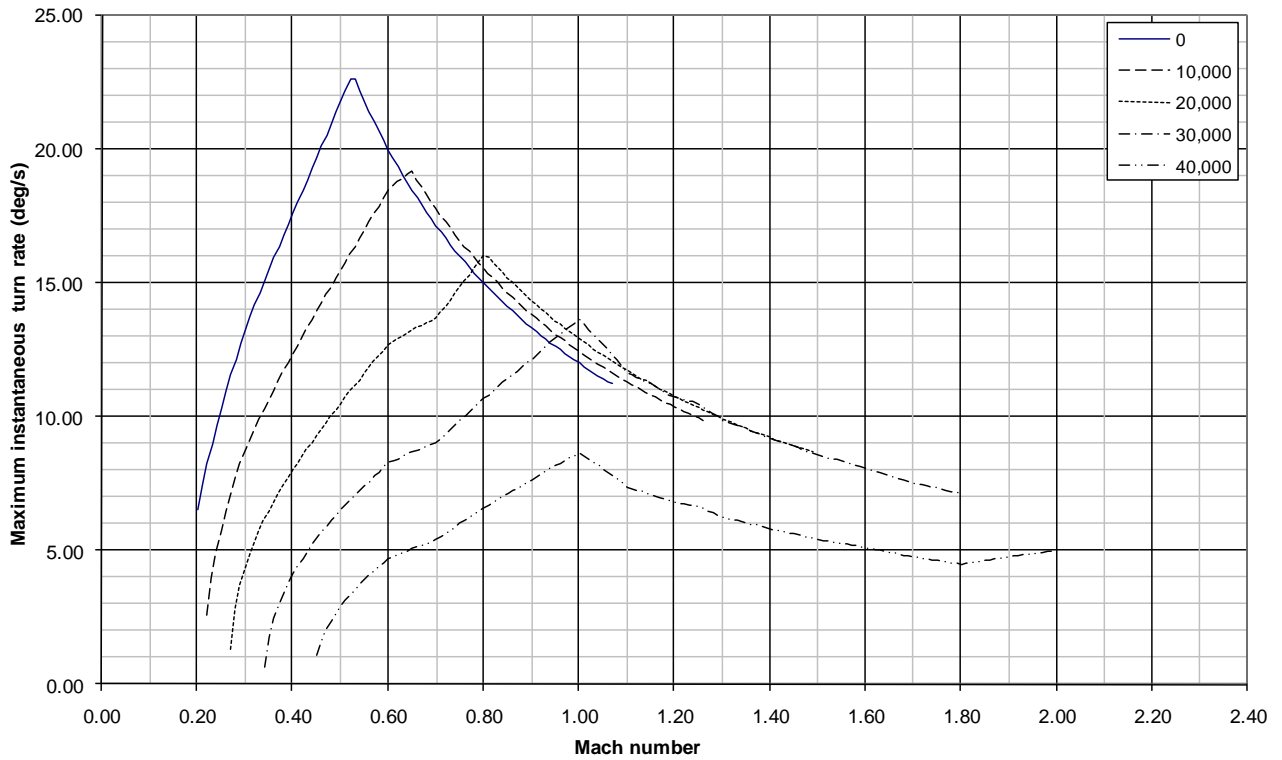
•Max AB

CONFIGURATIONS :

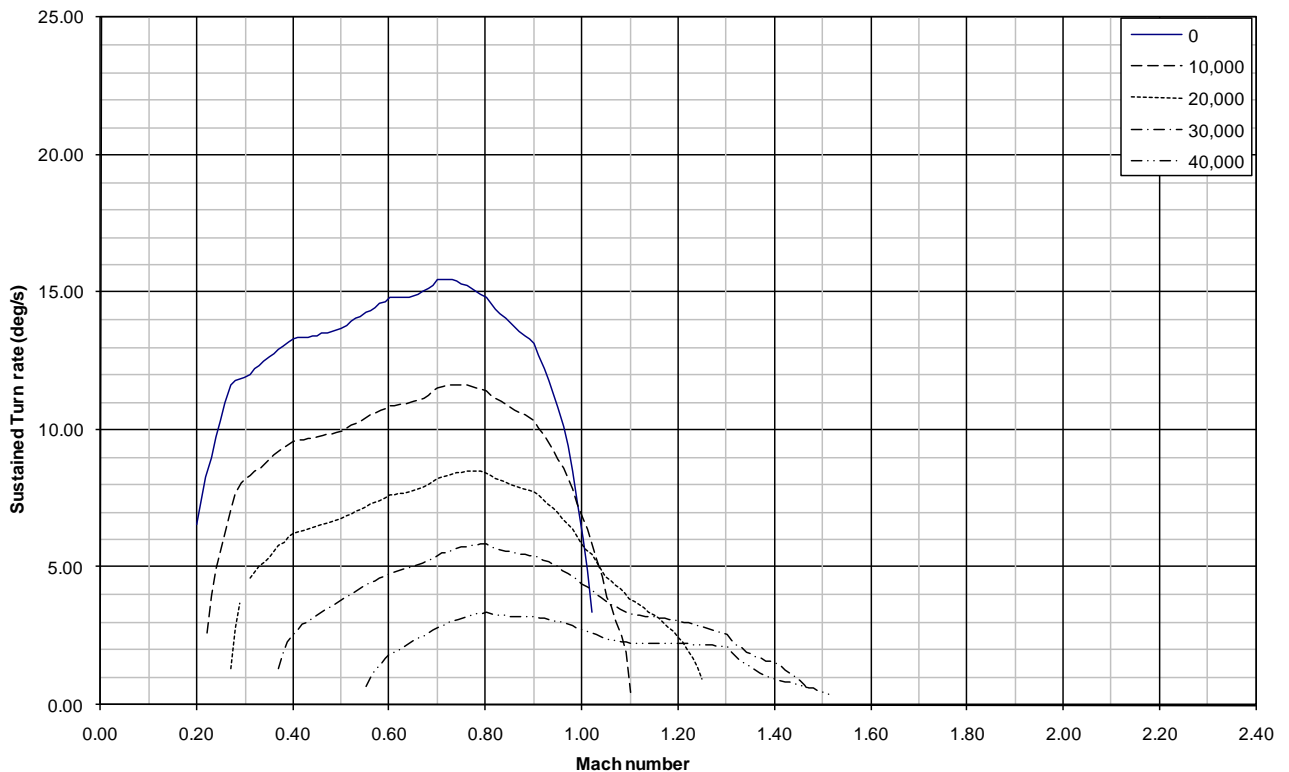
•DRAG INDEX = 18 (2xAIM-9)

•GW=13,600 lbs

Maximum Available Turn Rate



Maximum Sustained Turn rate (deg/s)



Load Factor – Summary

DATA BASIS : ESTIMATED

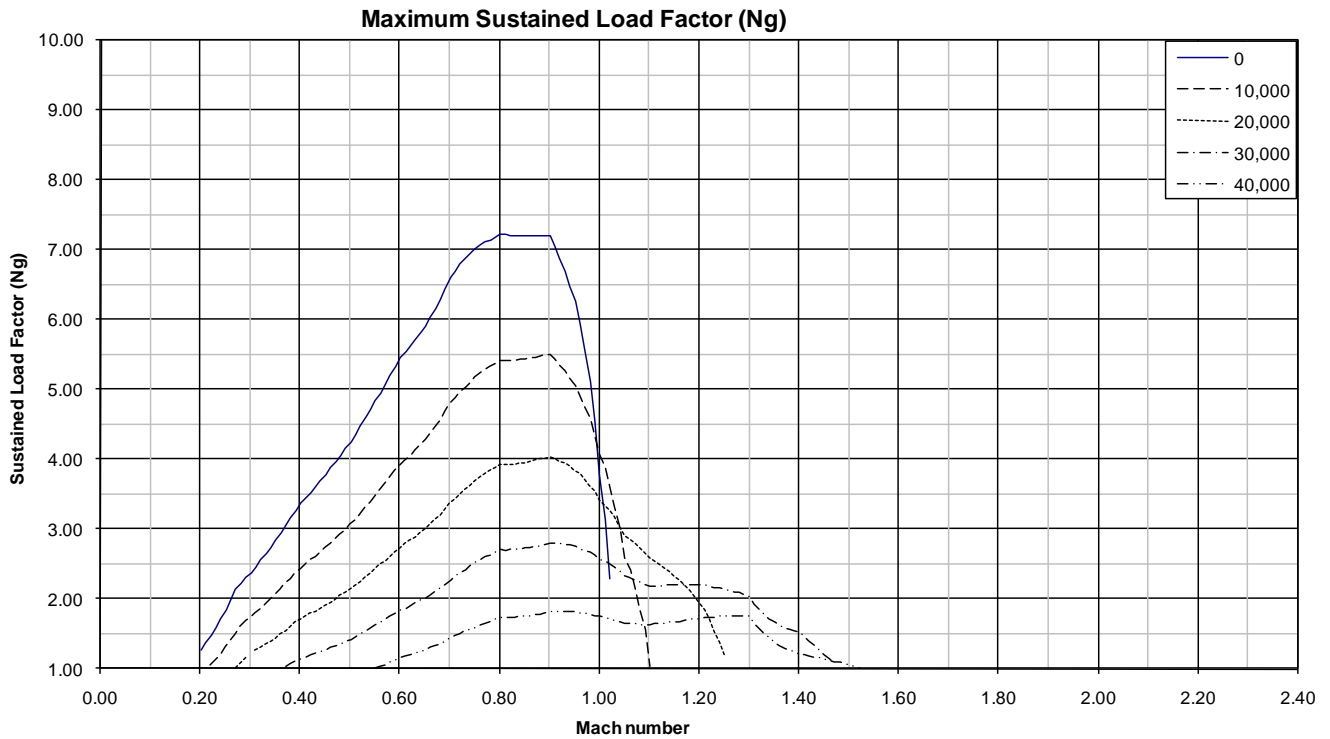
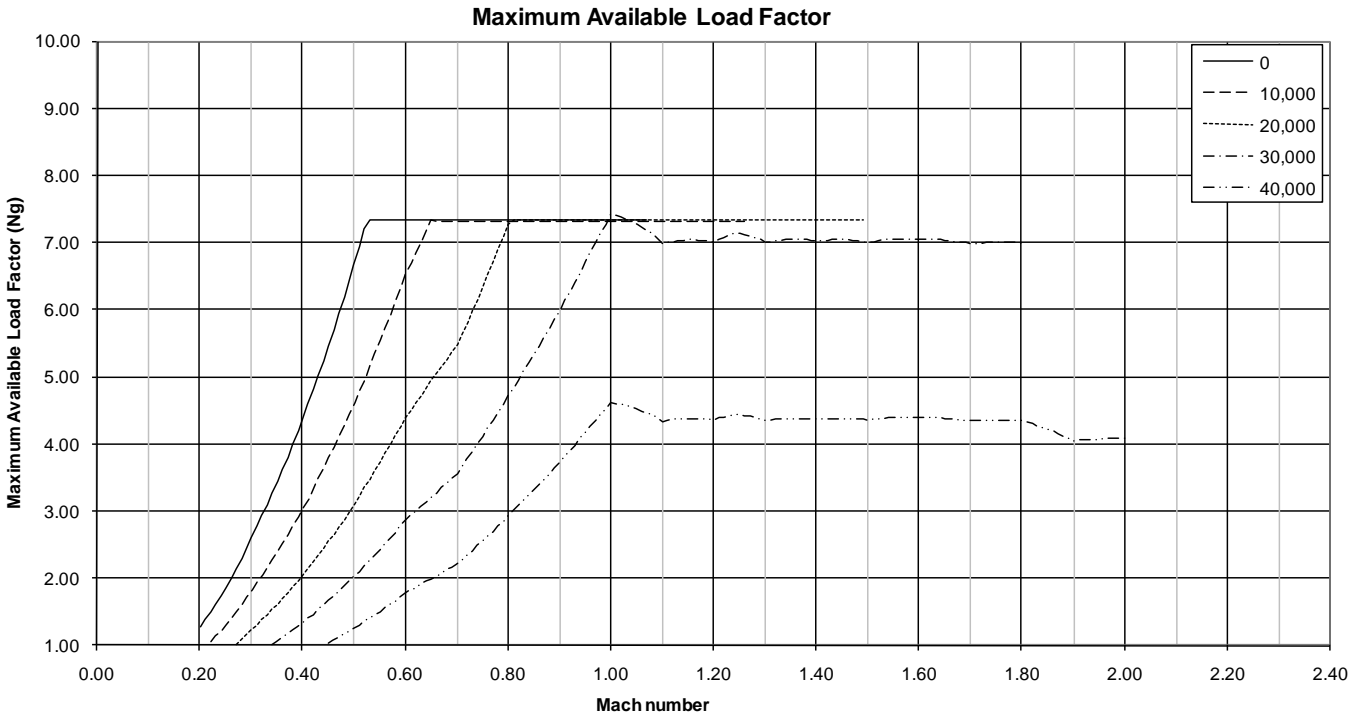
Aircraft : NORTHROP F-5E-2
Engine :J85-GE-21

CONDITIONS:

- Standard Day
- Max AB

CONFIGURATIONS :

- DRAG INDEX = 18 (2xAIM-9)
- GW=13,600 lbs



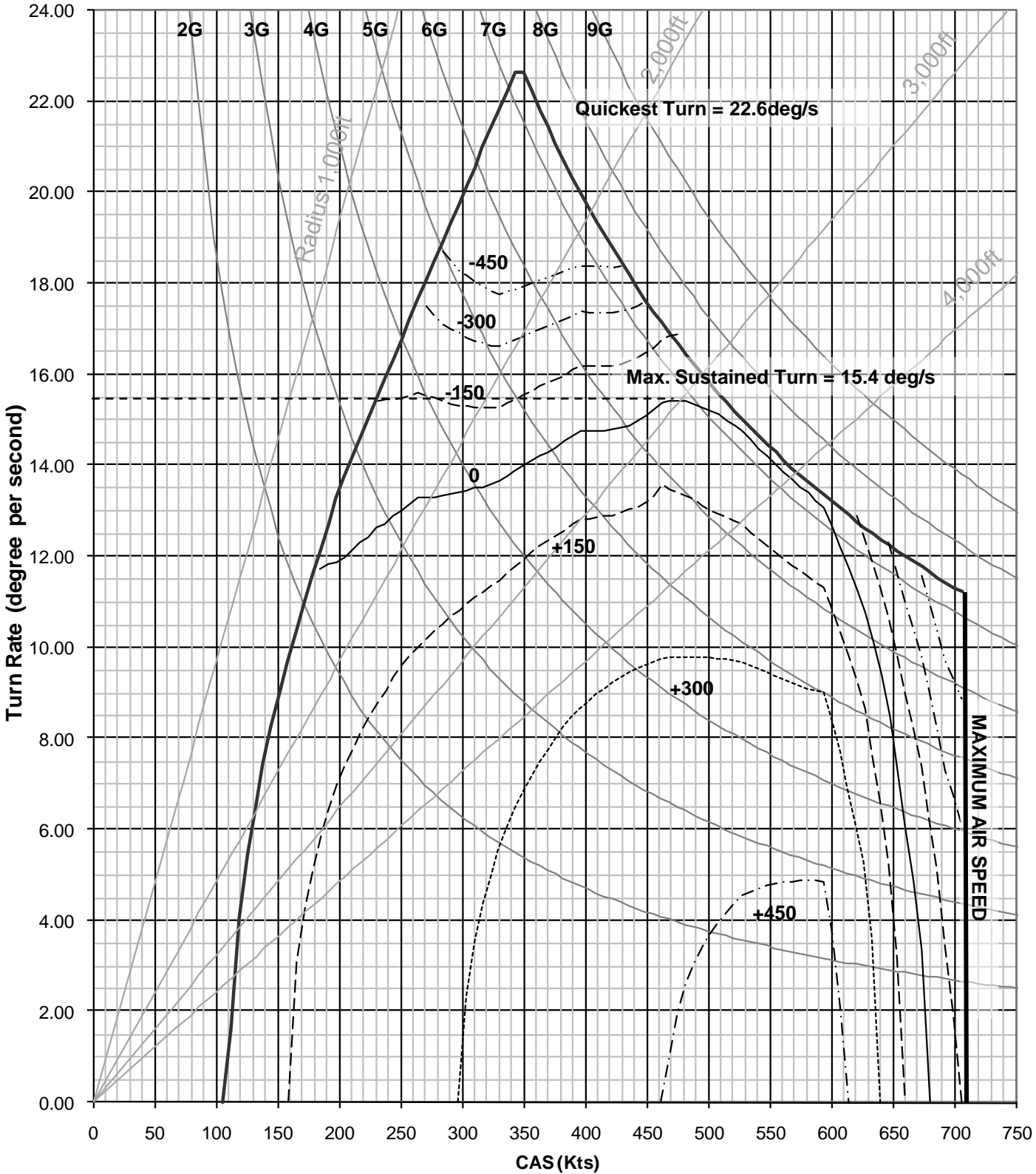
Turn Performance – Sea Level

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

CONDITIONS:
 •Standard Day
 •Max AB

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs



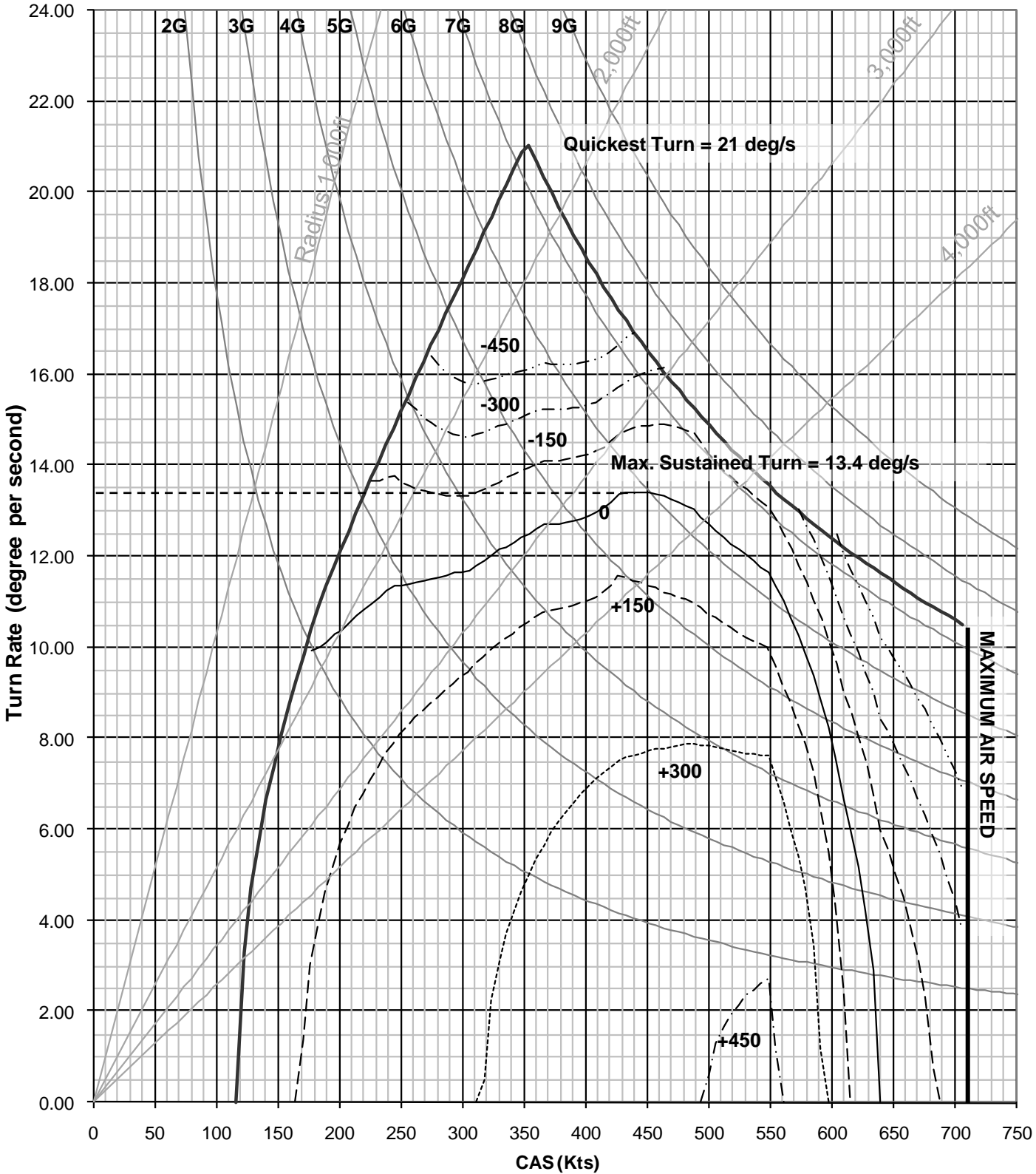
Turn Performance – 5,000 ft

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

CONDITIONS:
 •Standard Day
 •Max AB

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs



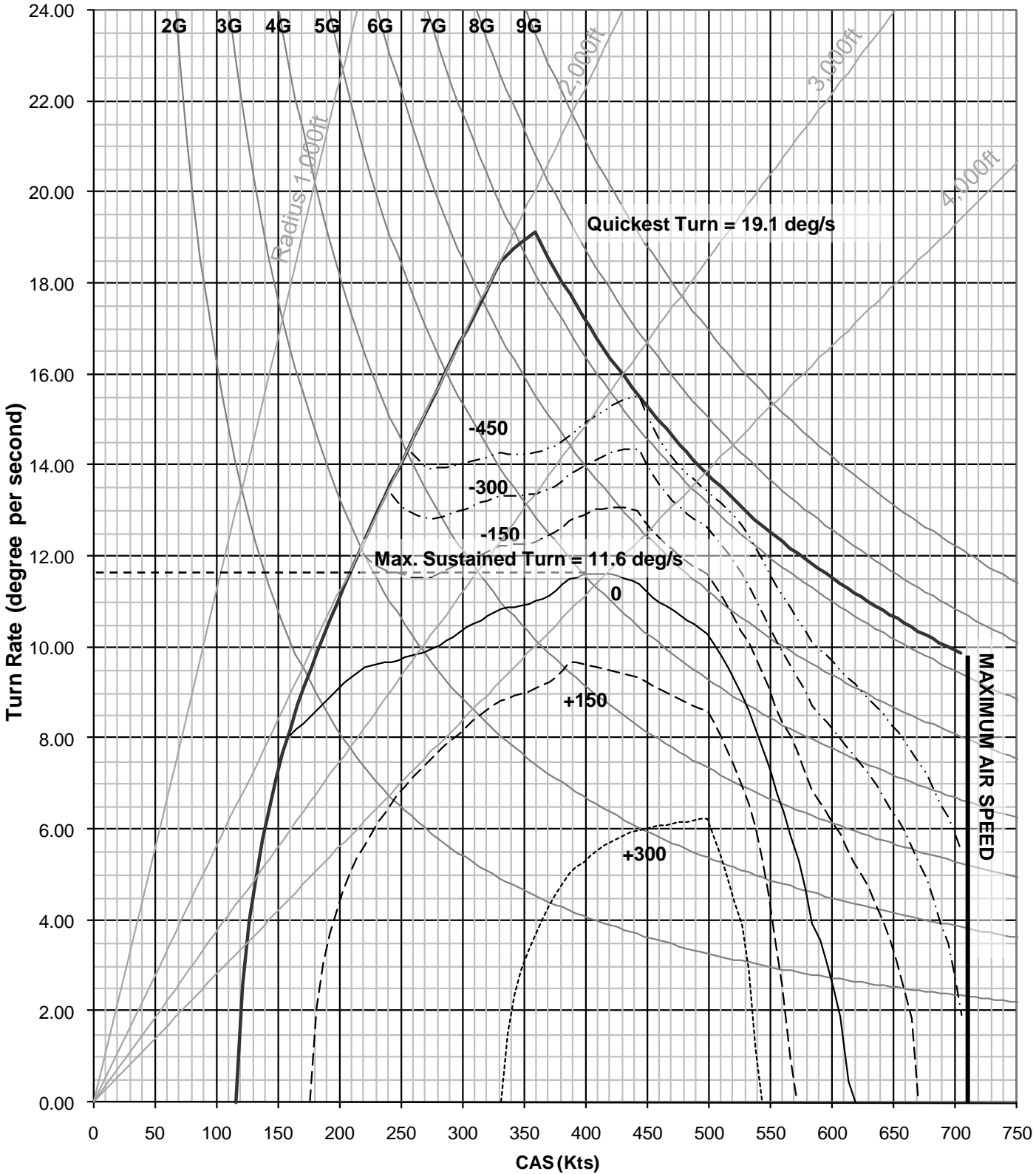
Turn Performance – 10,000 ft

DATA BASIS : ESTIMATED

**Aircraft : NORTHROP F-5E-2
Engine :J85-GE-21**

CONDITIONS:
•Standard Day
•Max AB

CONFIGURATIONS :
•DRAG INDEX = 18 (2xAIM-9)
•GW=13,600 lbs



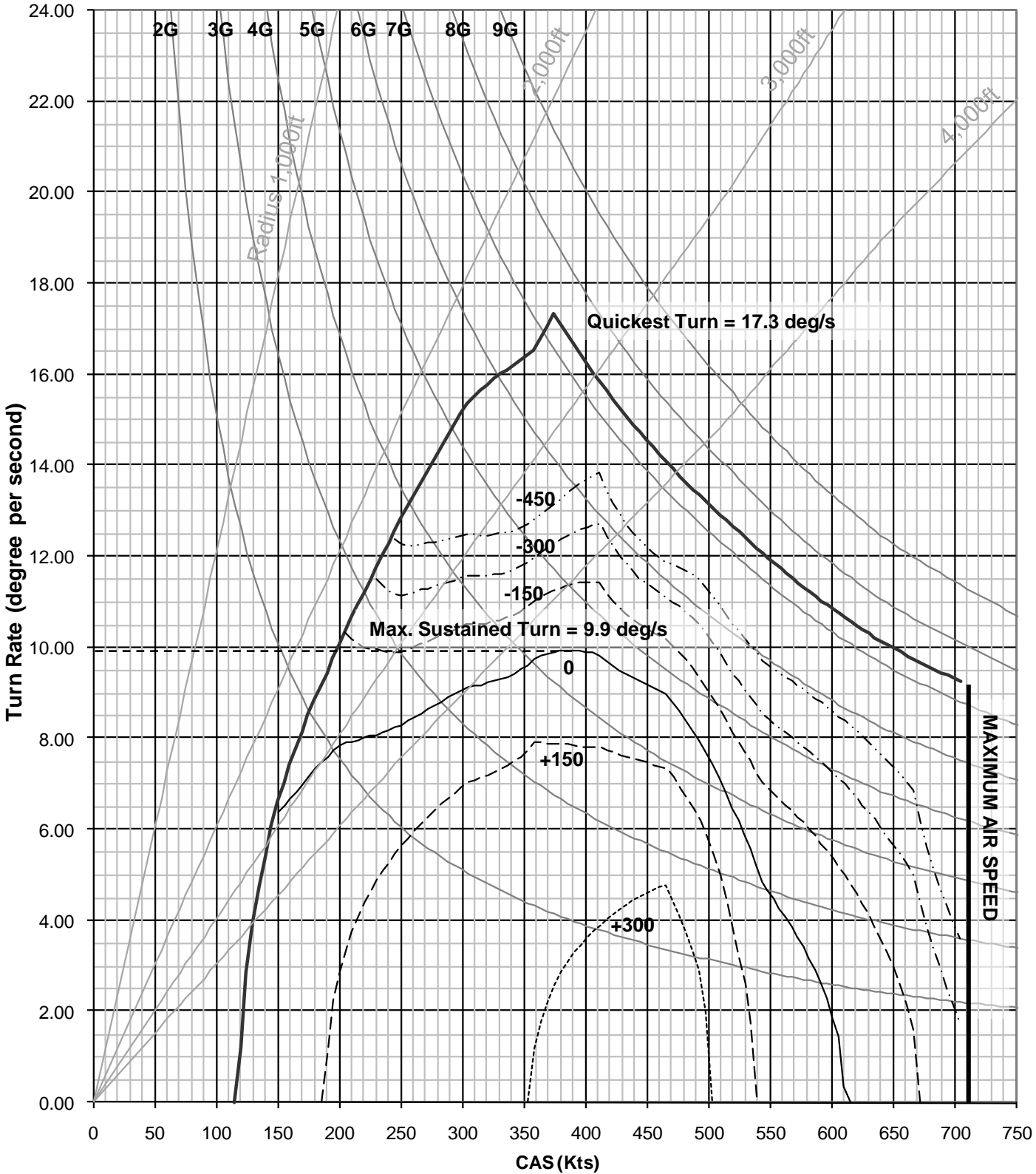
Turn Performance – 15,000 ft

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

CONDITIONS:
 •Standard Day
 •Max AB

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs



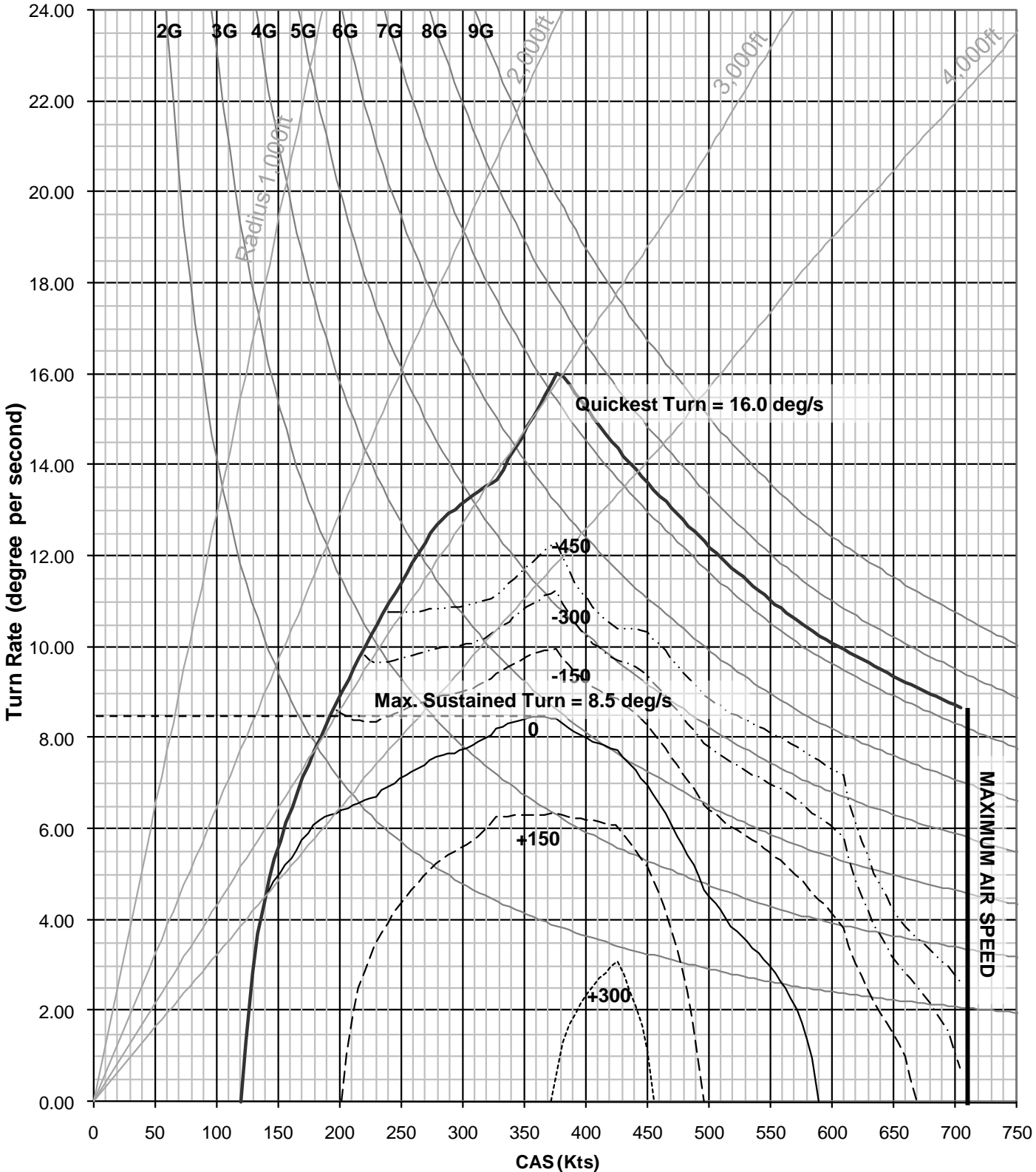
Turn Performance – 20,000 ft

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

CONDITIONS:
 •Standard Day
 •Max AB

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs



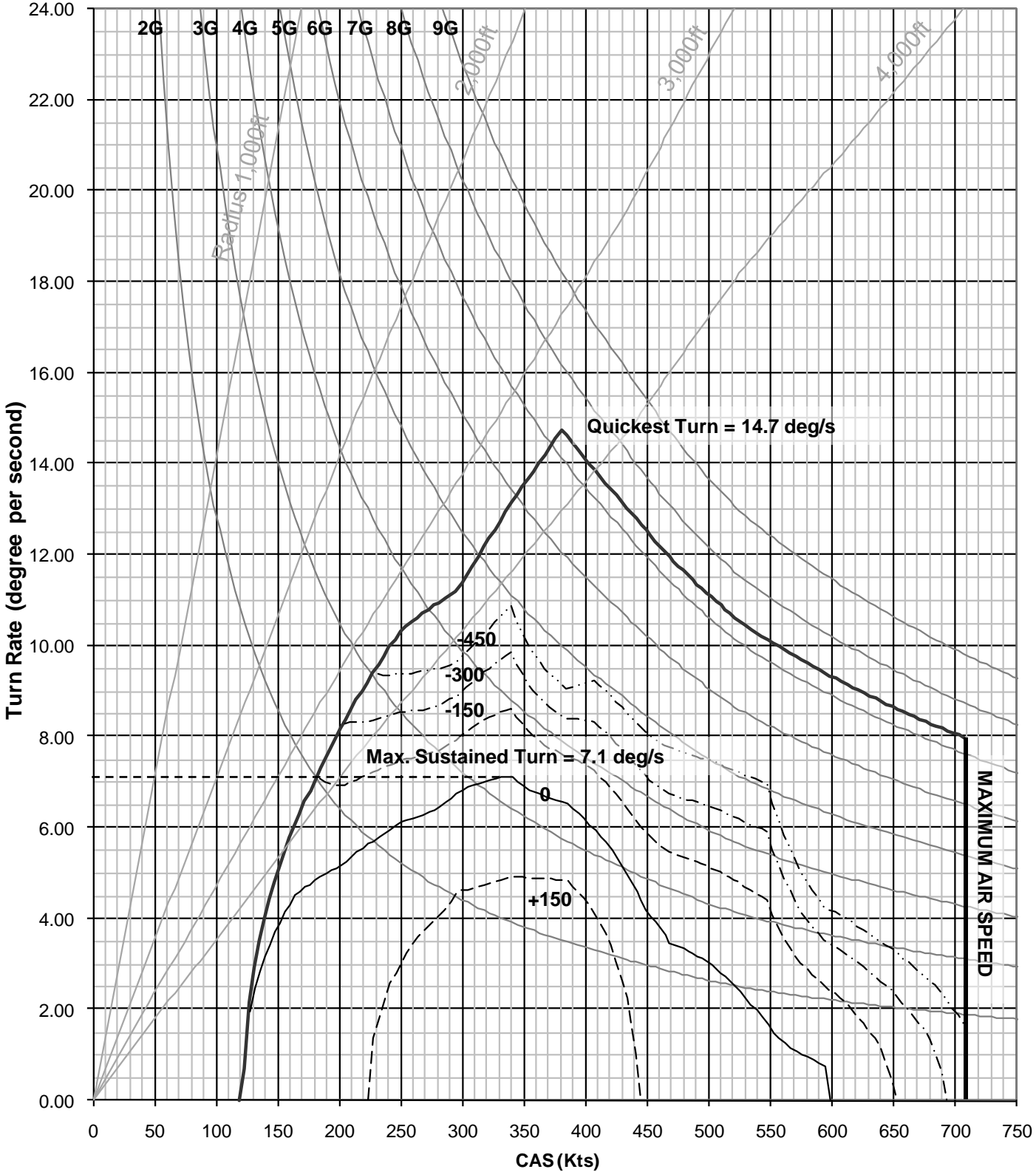
Turn Performance – 25,000 ft

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

CONDITIONS:
 •Standard Day
 •Max AB

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs



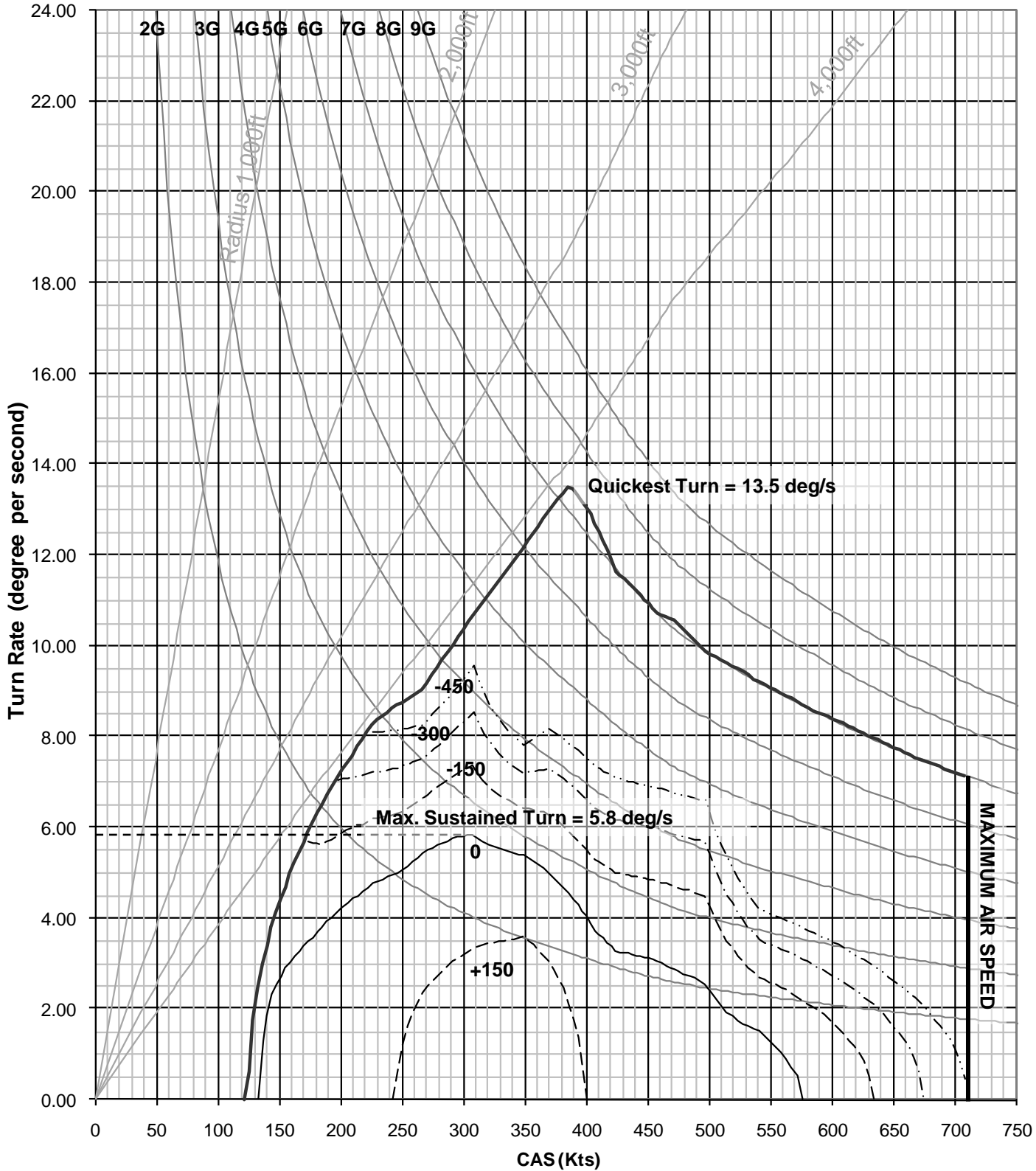
Turn Performance – 30,000 ft

DATA BASIS : ESTIMATED

**Aircraft : NORTHROP F-5E-2
Engine : J85-GE-21**

CONDITIONS:
•Standard Day
•Max AB

CONFIGURATIONS :
•DRAG INDEX = 18 (2xAIM-9)
•GW=13,600 lbs



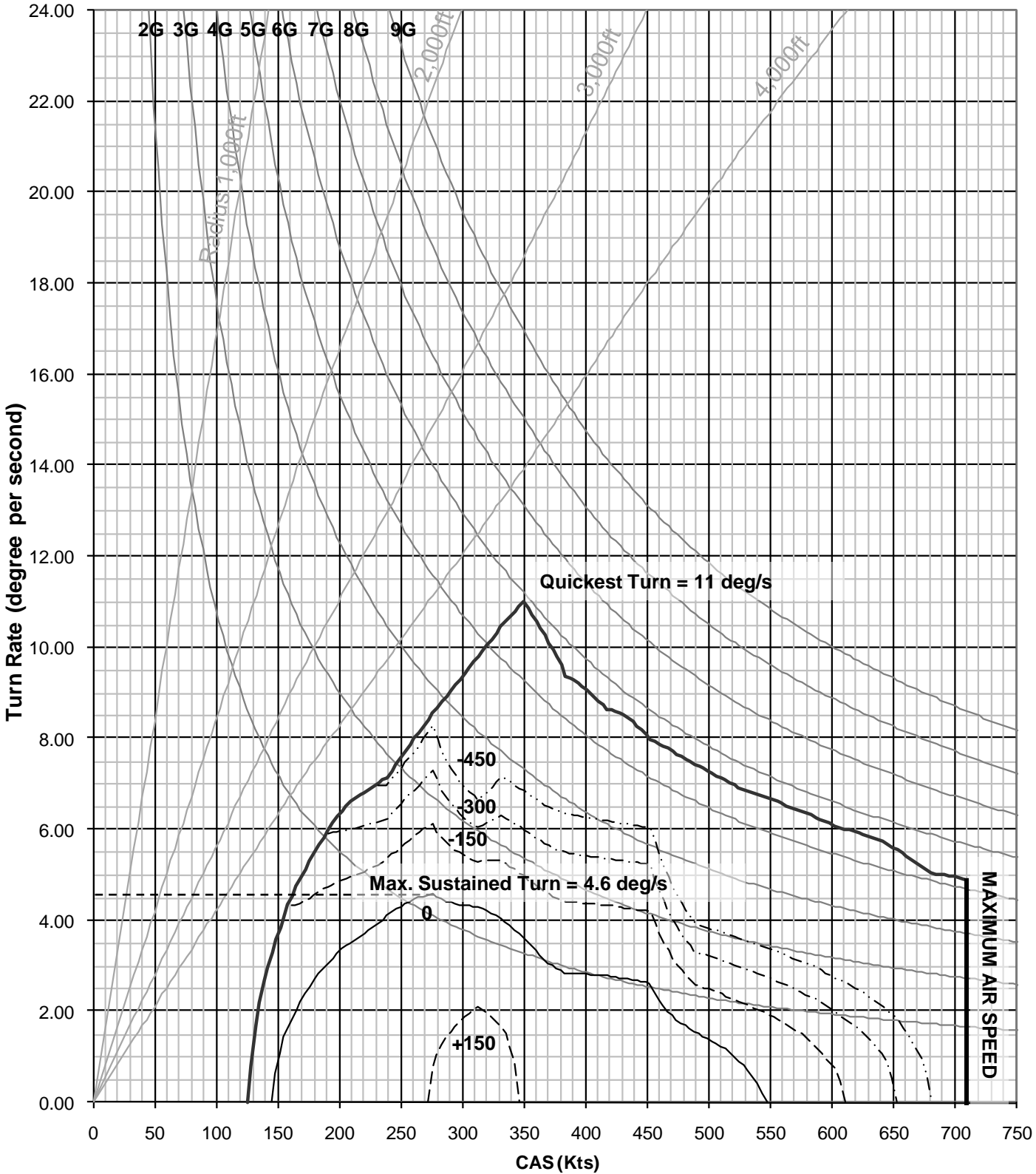
Turn Performance – 35,000 ft

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

CONDITIONS:
 •Standard Day
 •Max AB

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs



Climb Performance

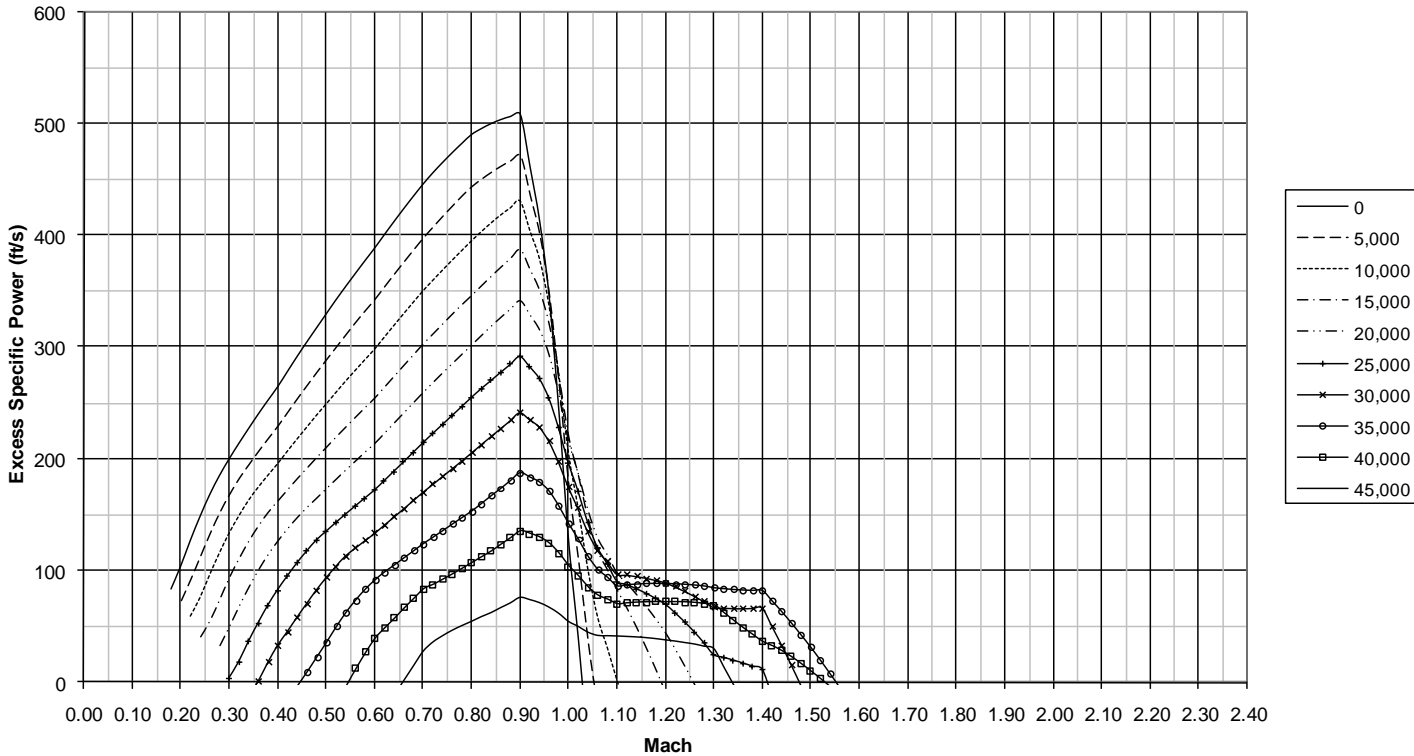
DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

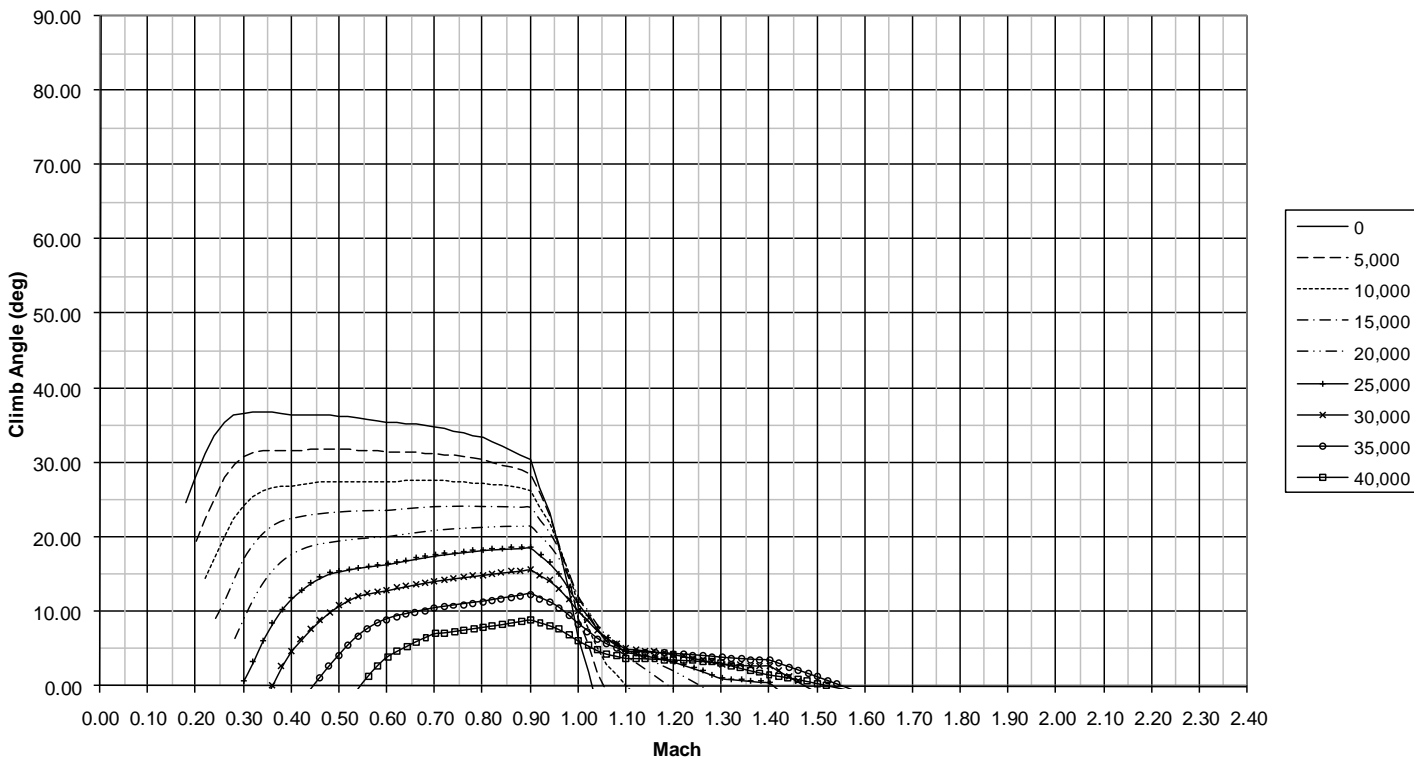
CONDITIONS:
 •Standard Day
 •Max AB

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs

Climb Rate



Climb Angle



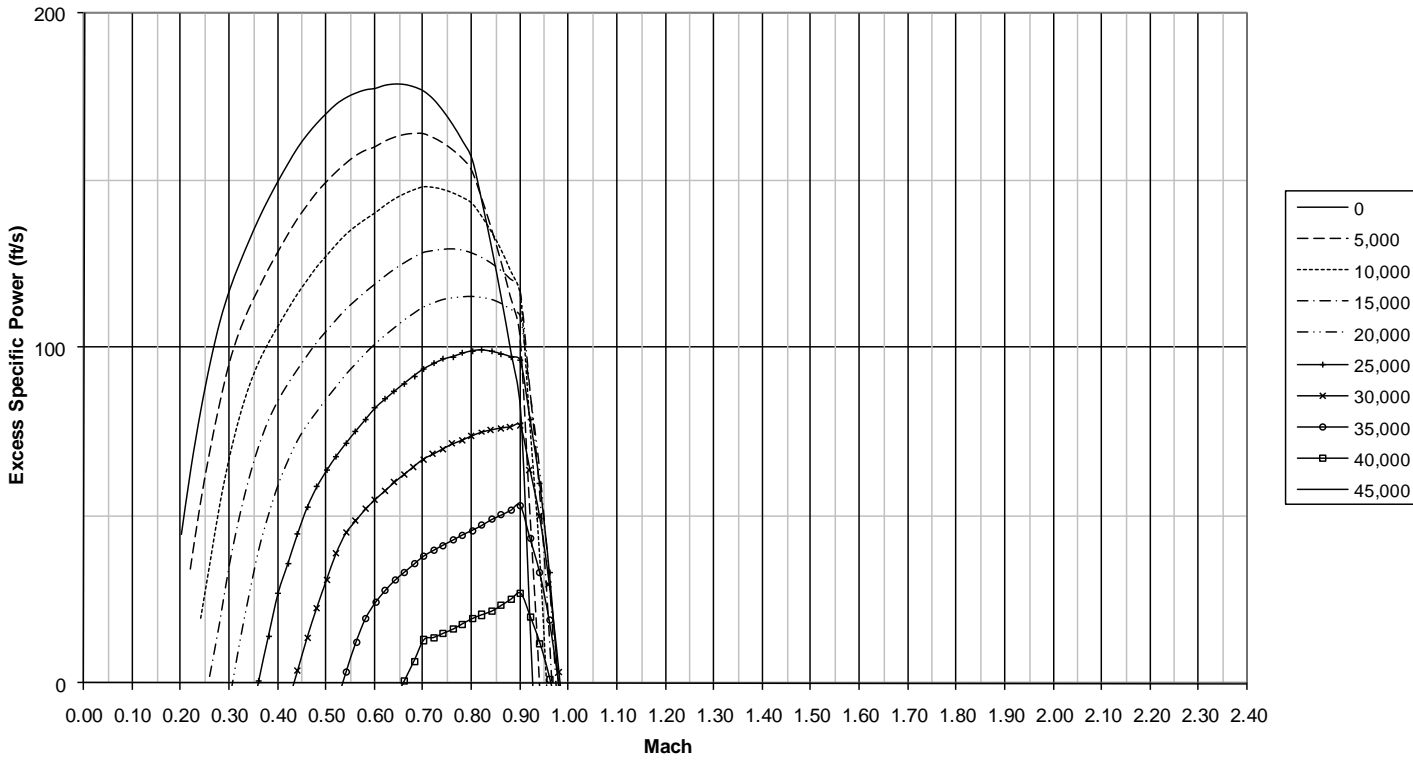
DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
 Engine : J85-GE-21

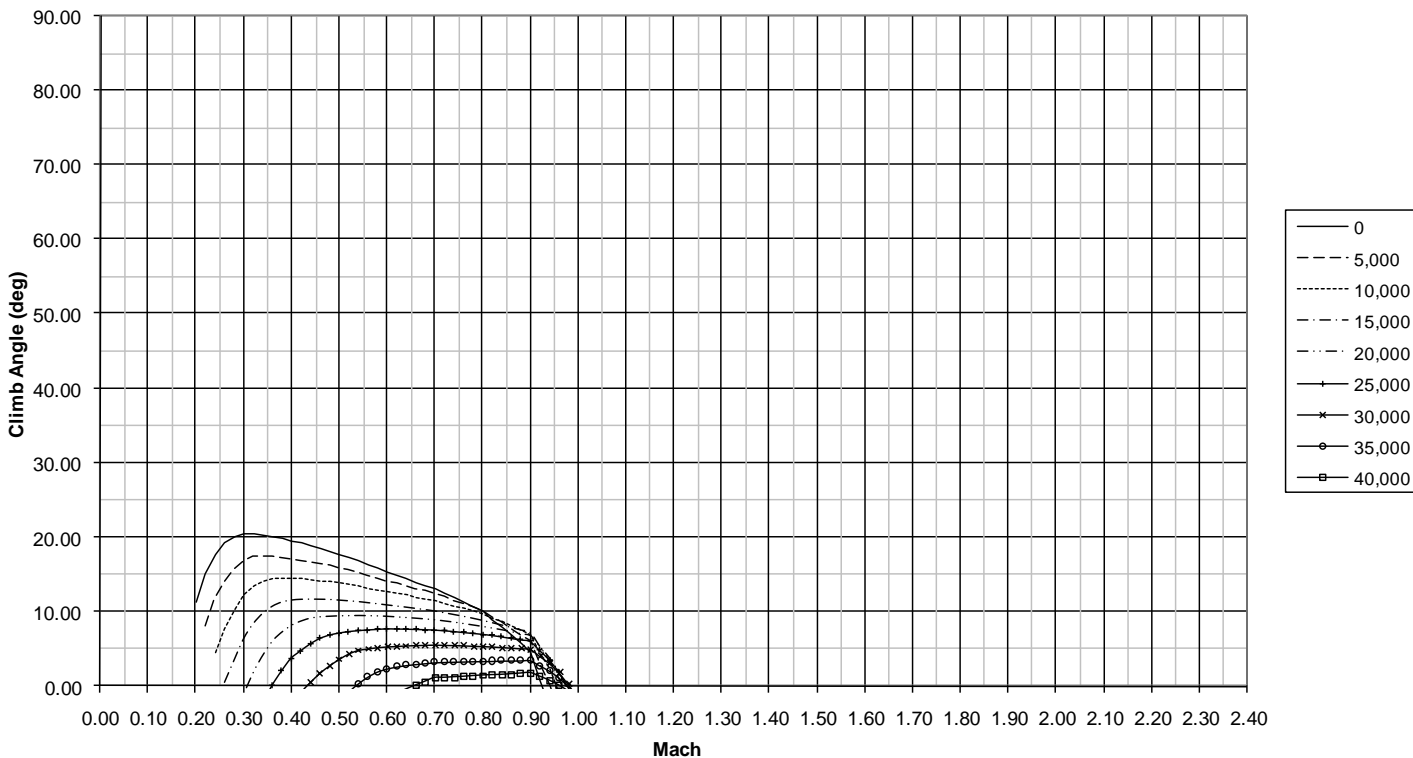
CONDITIONS:
 •Standard Day
 •MIL Power

CONFIGURATIONS :
 •DRAG INDEX = 18 (2xAIM-9)
 •GW=13,600 lbs

Climb Rate



Climb Angle



Acceleration Performances

Acceleration Diagram

DATA BASIS : ESTIMATED

Aircraft : NORTHROP F-5E-2
Engine : J85-GE-21

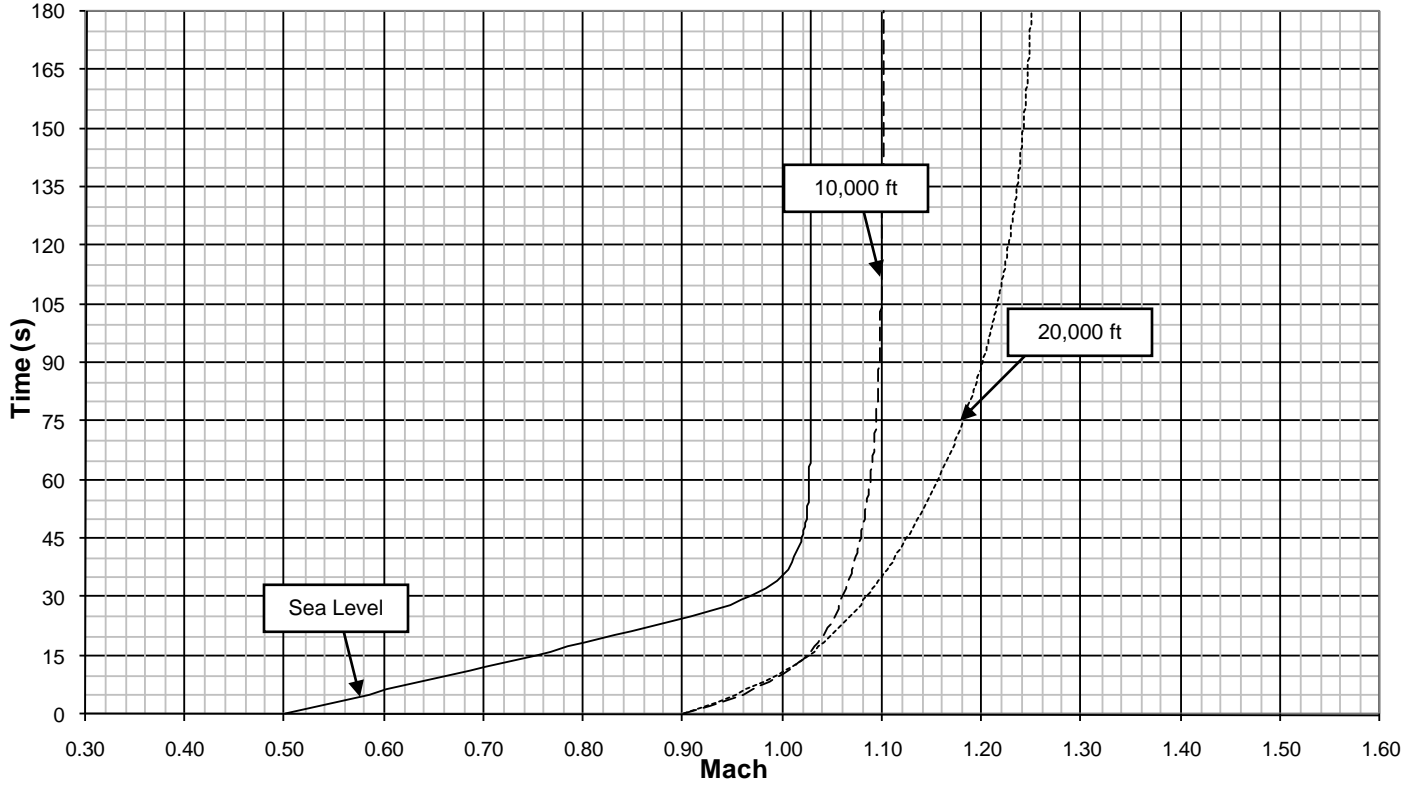
CONDITIONS:

- Standard Day
- Max AB

CONFIGURATIONS :

- DRAG INDEX = 18 (2xAIM-9)
- GW=13,600 lbs

Acceleration (Max Thrust AB)



Acceleration (Max Thrust AB)

