Performance of the XB-35 at 155,000 LBS.

These performances are based on computations of the drag results obtained from the N9-M.

Maximum speed at military power at 35,000 ft. 386 mph
Maximum rate of climb at military power 1270 ft/min
Service ceiling (four engines) 39,400 ft.
(three engines) 23,200 ft.
Range with 10,000 lbs. of bombs
  cruise altitude-35,000 ft) 4,600 miles
  average speed-250 mph)
  cruise altitude-25,000 ft.) 5,1000 miles
  average speed-230 mph)
Takeoff distance to clear 50 ft. 4,800 ft.

Physical Characteristics

Wing span 172 ft.
Wing Area 4000 ft.²
Wing Aspect Ratio 7.38
Mean Aerodynamic Chord 26.3 ft.
Taper Ratio 0.25

Airfoil Sections
Root NACA 65,3-019
Tip NACA 65,3-018

Length 53.1 ft.
Height 20.28
Design Gross Weight 155,000 lbs.
Weight Empty 95,339 lbs.

Engine:

Make Pratt & Whitney
Model Number XR-4360-17,-21
Propeller Gear Ratio .381:1 dual rotation
Power rating: 2500 BHP at 2700 rpm S.L. to 35000 ft.
Normal
Physical Characteristics (Cont'd)

Engine (Cont'd)

Power rating:

Military and Takeoff

(5 Minutes)

3000 BHP at 2700±ppm
S.L. to 35,000 ft.

Propeller:

Make

Type
dual rotation, pusher

eight

Number of blades

2c15B1-0, 2c15B2-0

Blade number

15' 1" (Propeller

Diameter

farthest from engine)

15' 1" (Propeller

Thickness ratio at 3/4 station

nearest engine)

0.056