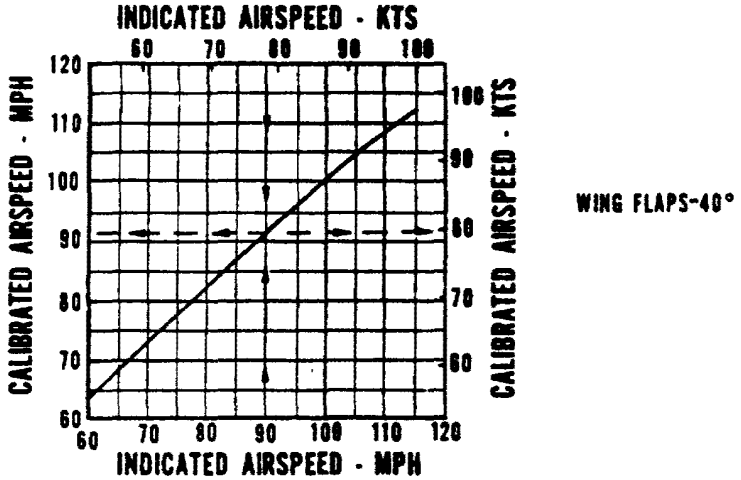
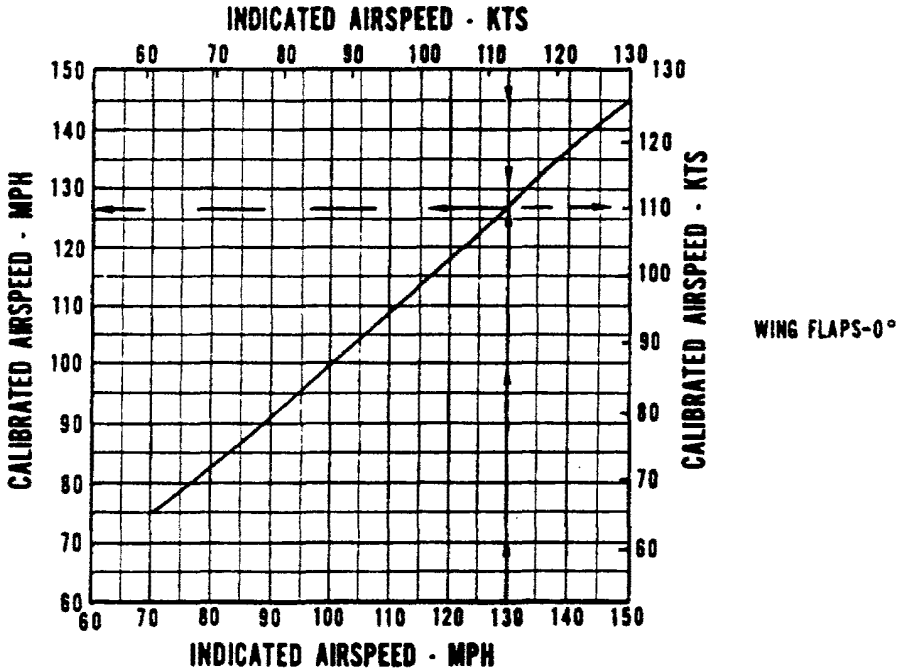
PA-28-181

AIRSPEED SYSTEM CALIBRATION

2250 LBS GROSS WEIGHT

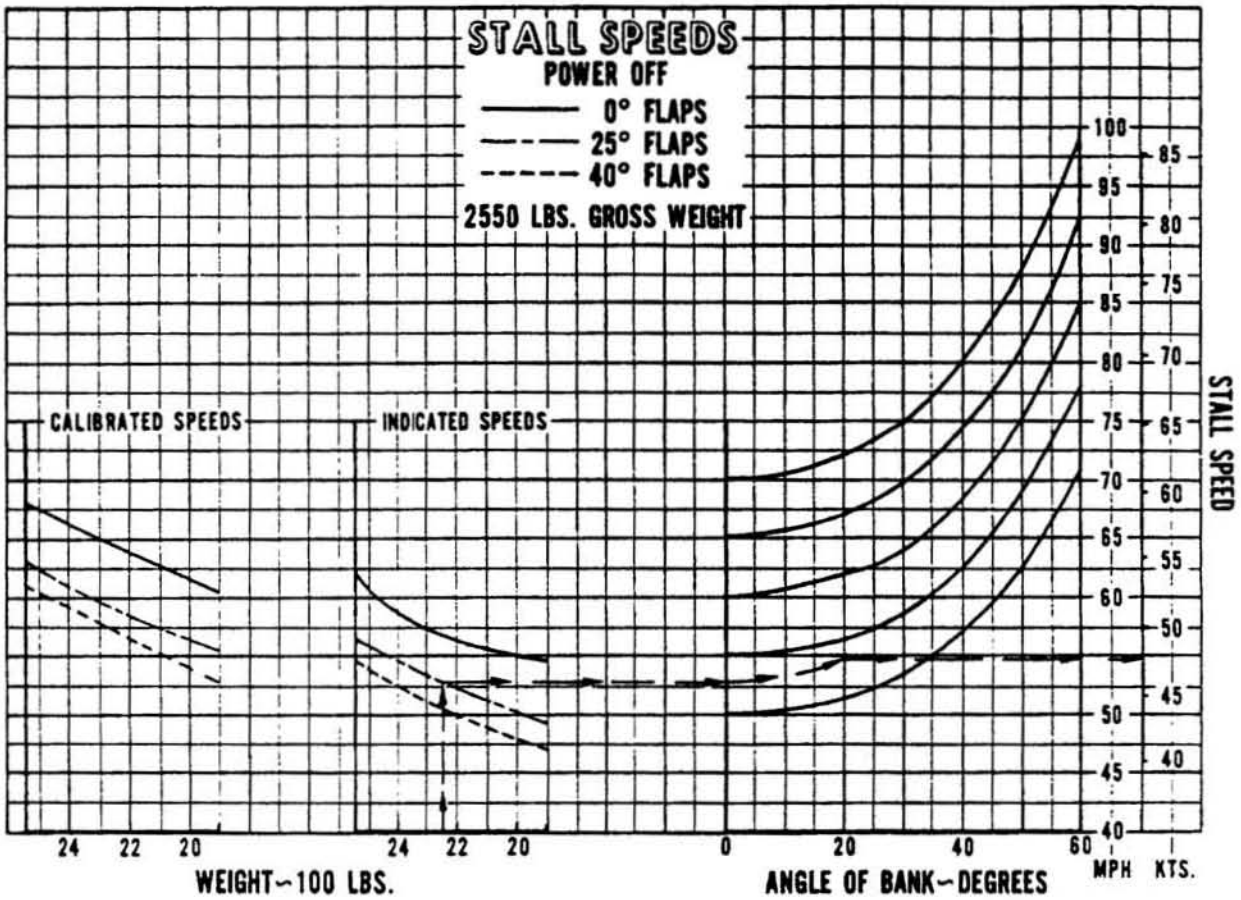




AIRSPEED SYSTEM CALIBRATION

Figure 5-1

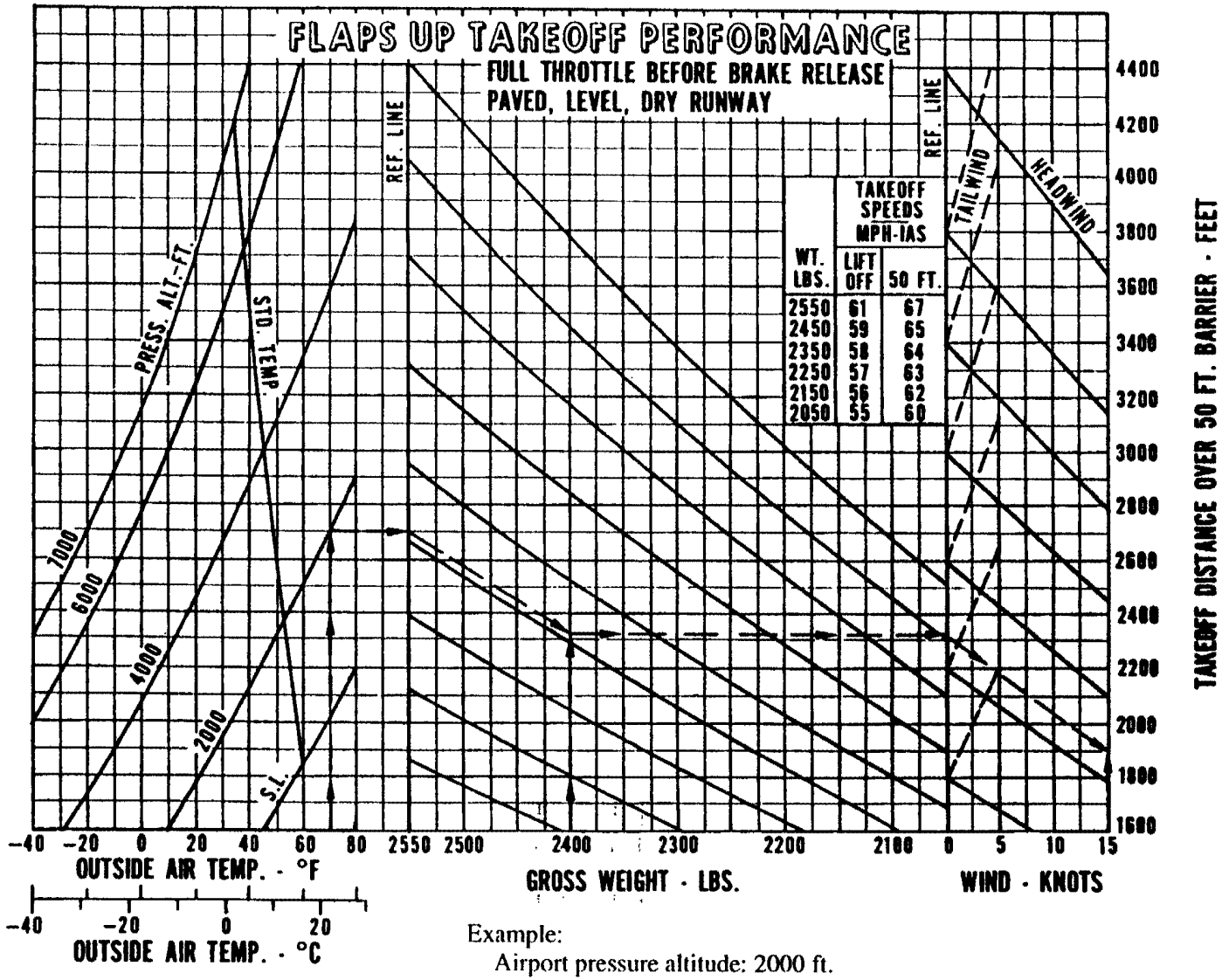
PA-28-181



STALL SPEEDS

Figure 5-3

PA-28-181

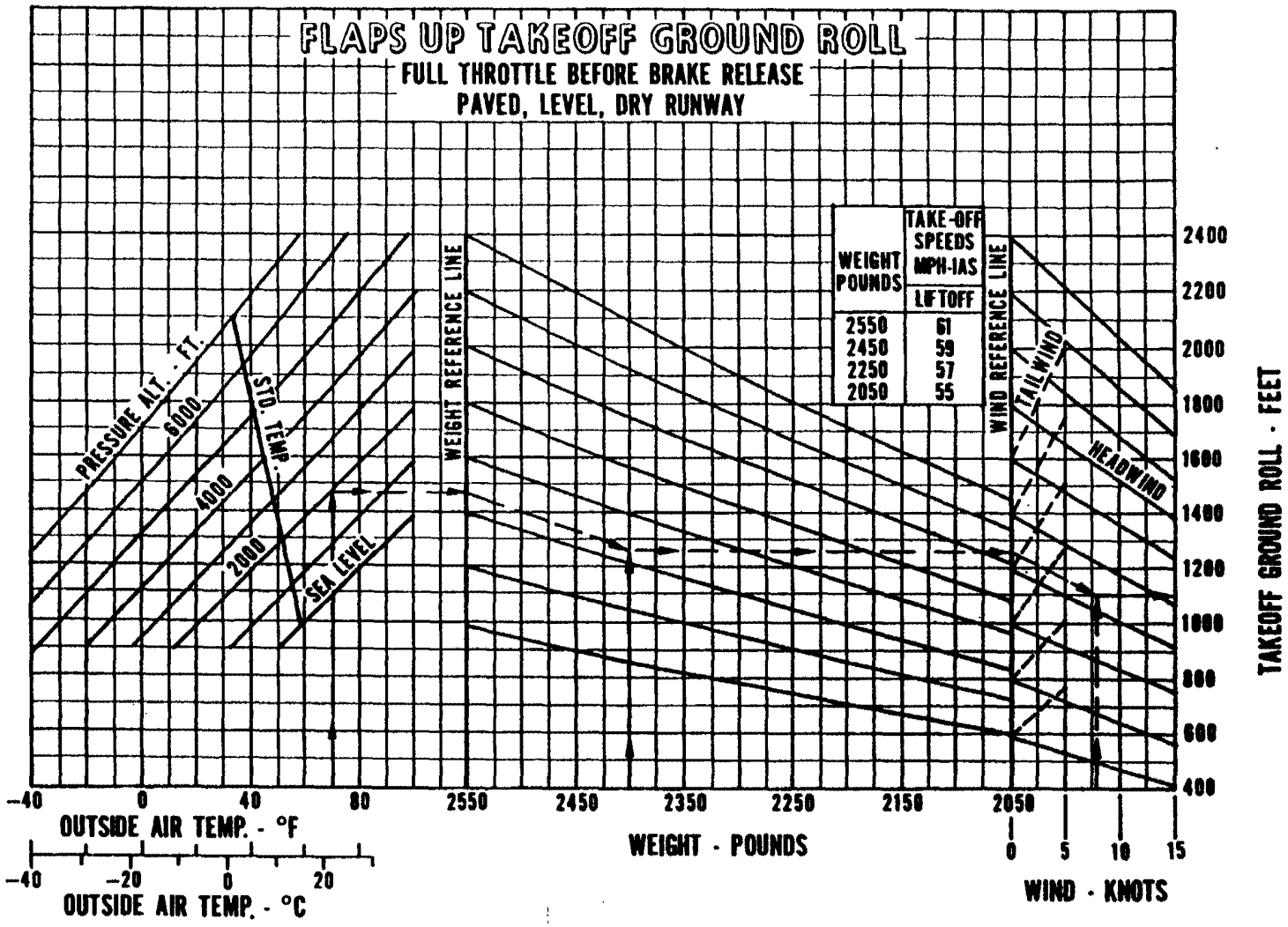


Example:
Airport pressure altitude: 2000 ft.
Temperature: 70°F
Wind: 15 knots (headwind)
Gross weight: 2400 lbs.
Takeoff distance: 1900 ft.

FLAPS UP TAKEOFF PERFORMANCE

Figure 5-5

PA-28-181

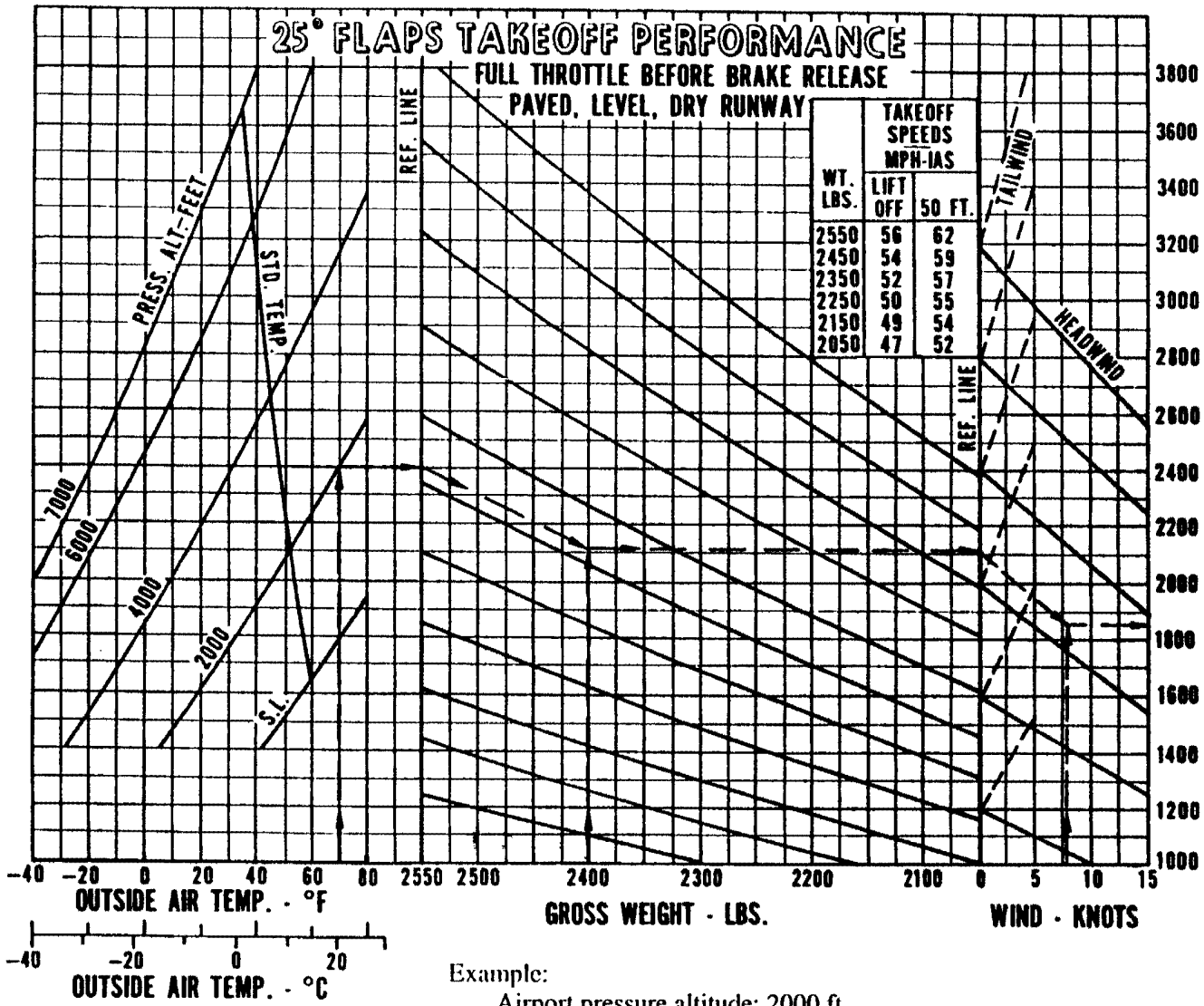


FLAPS UP TAKEOFF GROUND ROLL

Figure 5-6

Example:
Airport pressure altitude: 2000 ft.
Temperature: 70°F
Gross weight: 2400 lbs.
Wind: 8 knots (headwind)
Takeoff ground roll: 1100 ft.

PA-28-181

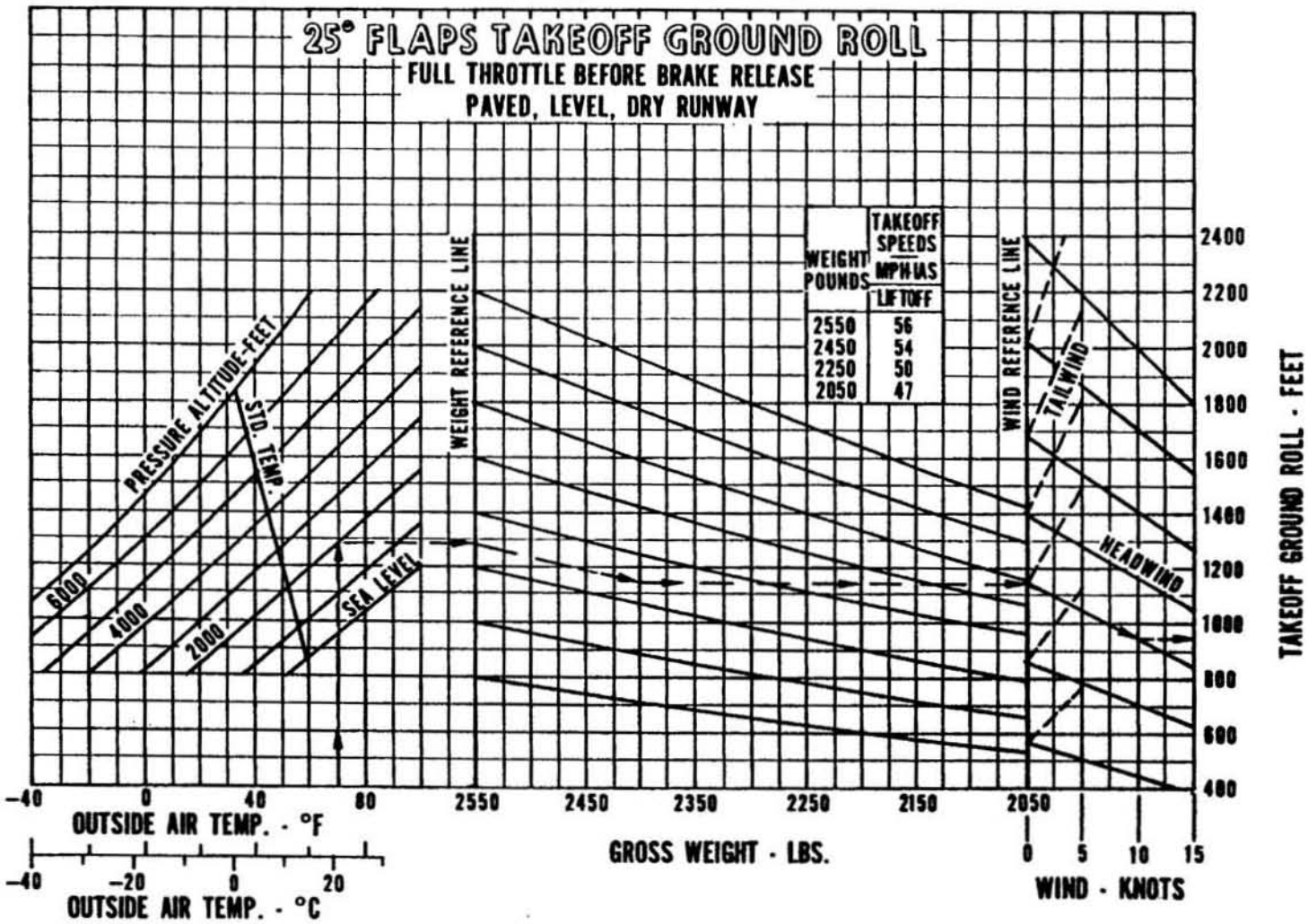


Example:
Airport pressure altitude: 2000 ft.
Temperature: 70°F
Gross weight: 2400 lbs.
Wind: 8 knots (headwind)
Takeoff distance: 1860 ft.

25° FLAPS TAKEOFF PERFORMANCE

Figure 5-7

PA-28-181



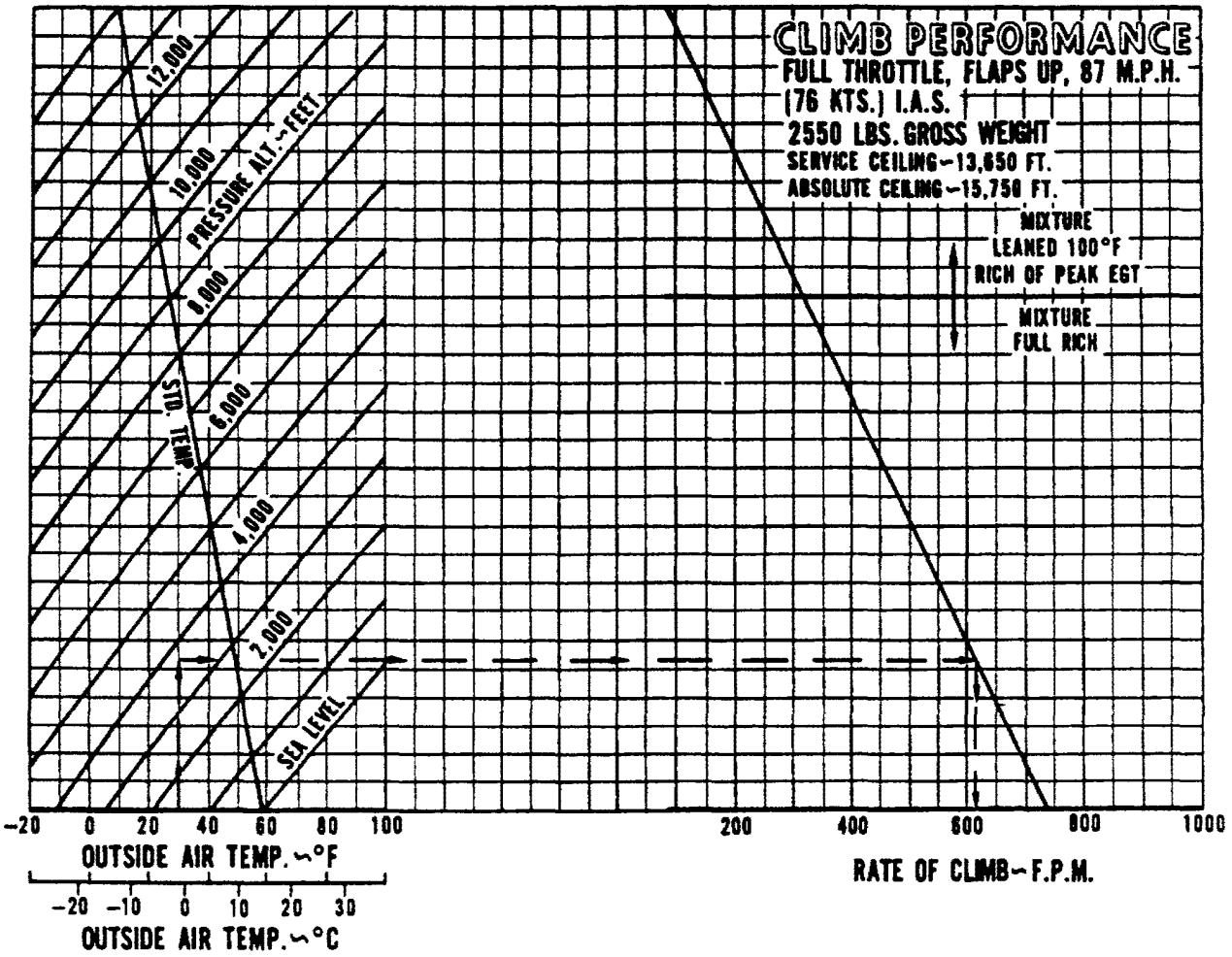
Example:

Airport pressure altitude: 2000 ft.
Temperature: 70°F
Gross weight: 2400 lbs.
Wind: 10 knots (headwind)
Takeoff ground roll: 950 ft.

25° FLAPS TAKEOFF GROUND ROLL

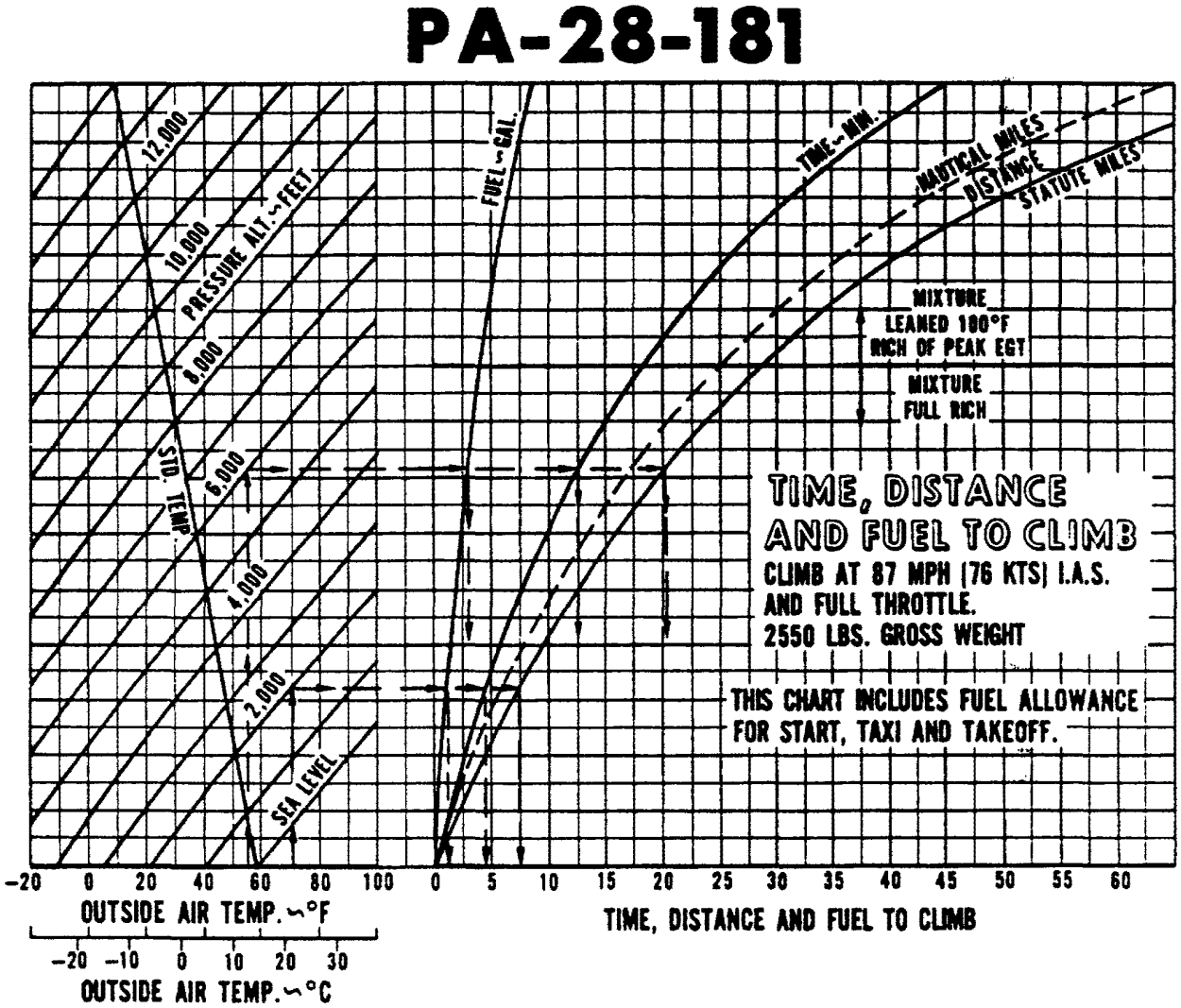
Figure 5-8

PA-28-181



CLIMB PERFORMANCE

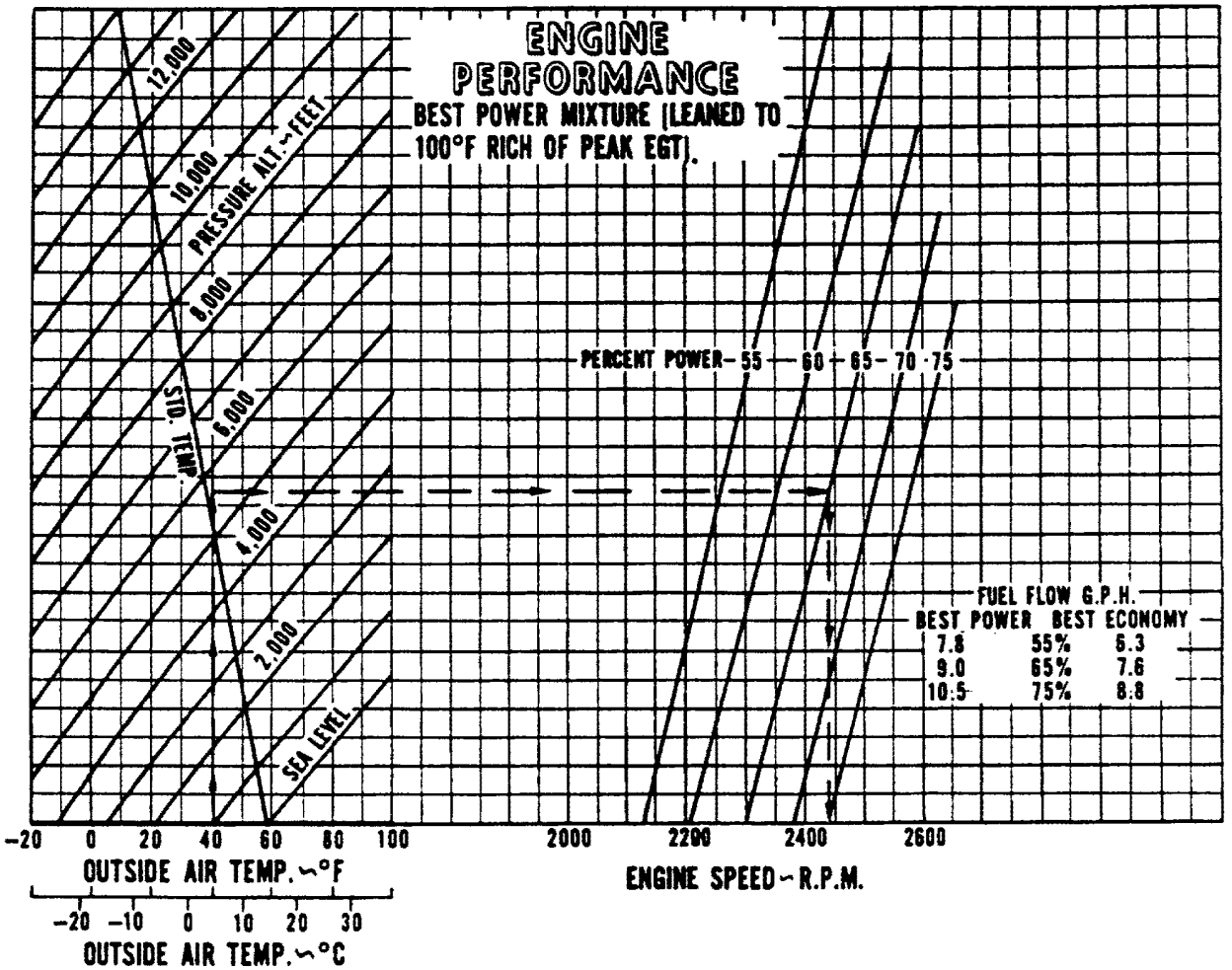
Figure 5-9



TIME, DISTANCE AND FUEL TO CLIMB

Figure 5-11

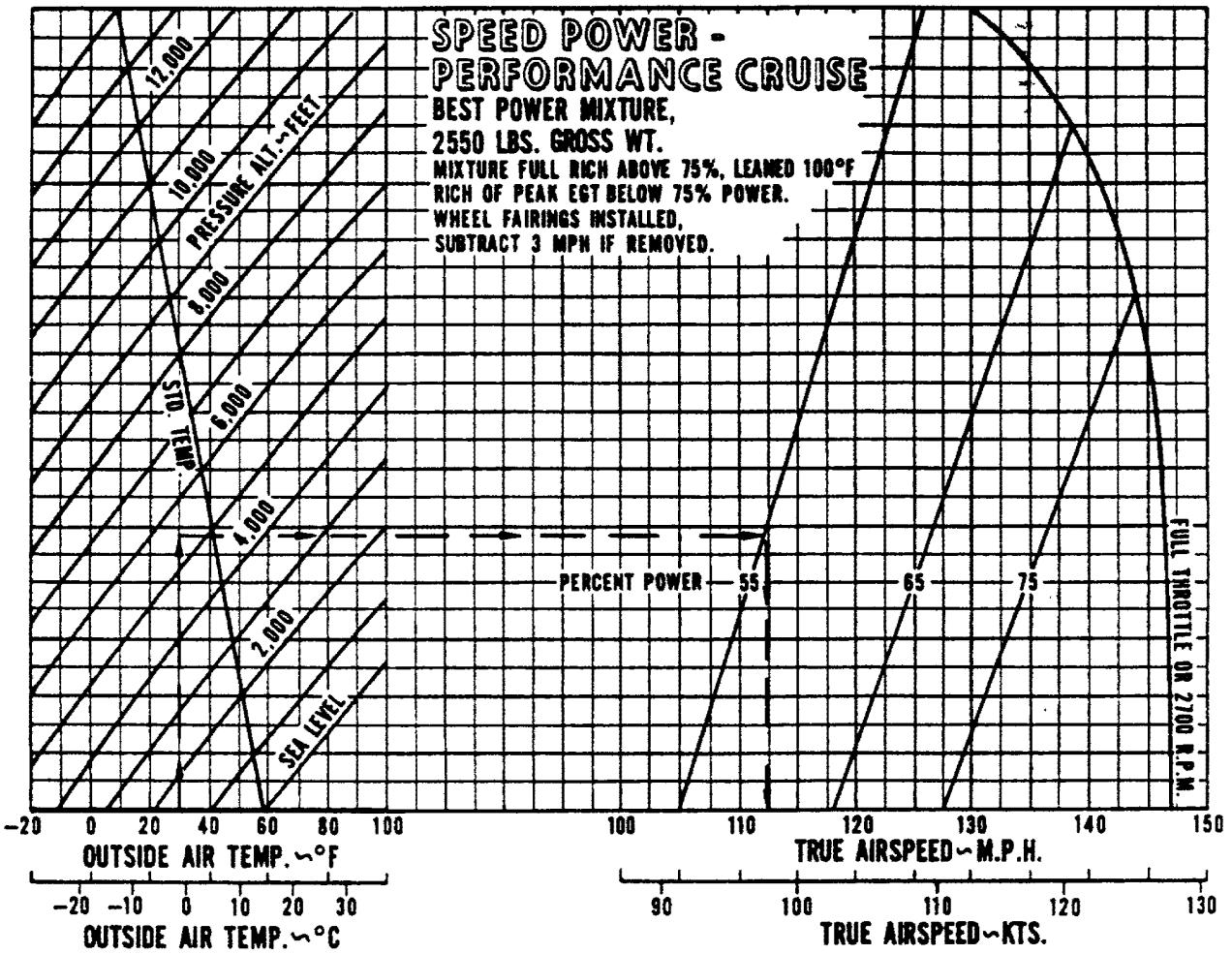
PA-28-181



ENGINE PERFORMANCE

Figure 5-13

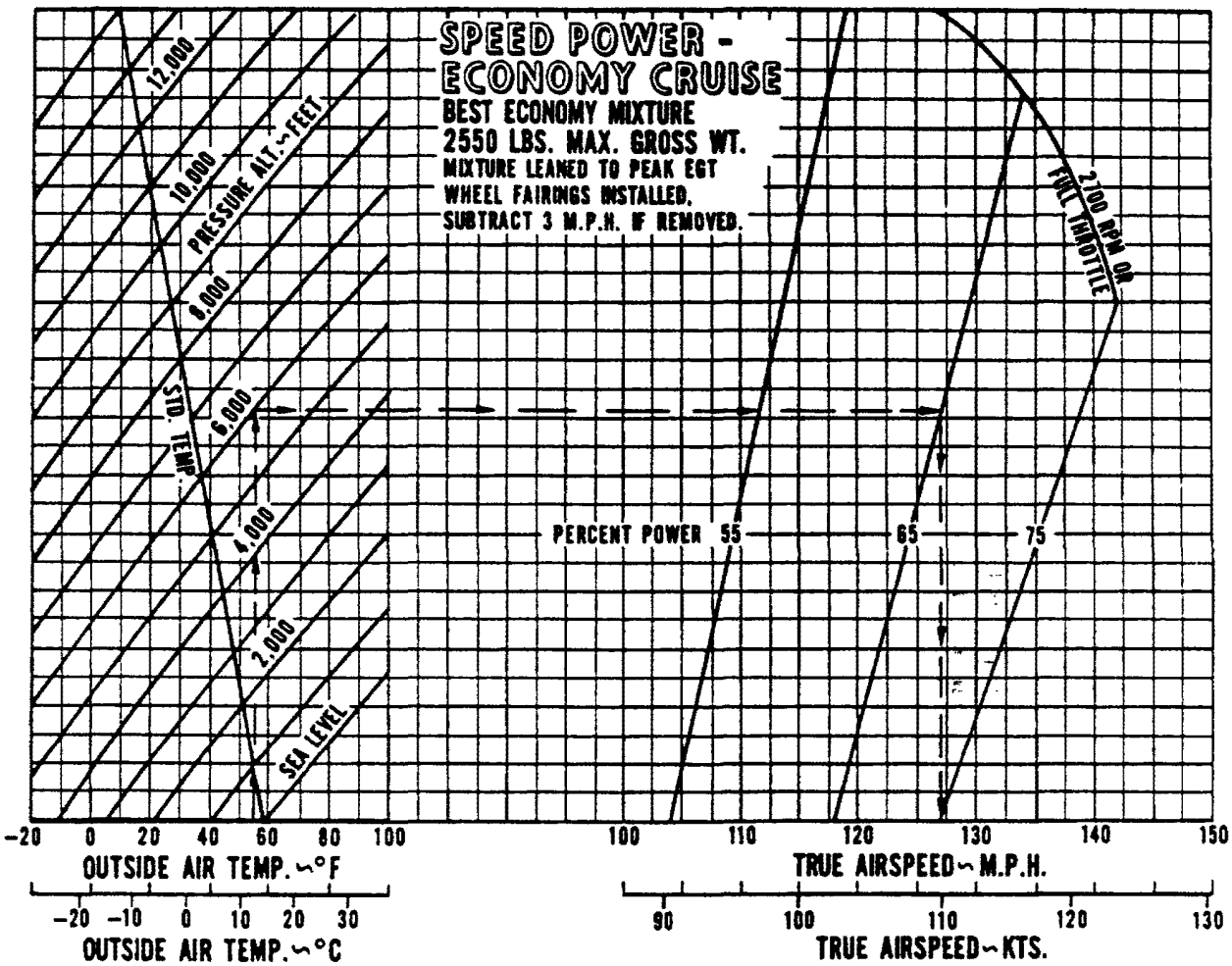
PA-28-181



SPEED POWER - PERFORMANCE CRUISE

Figure 5-15

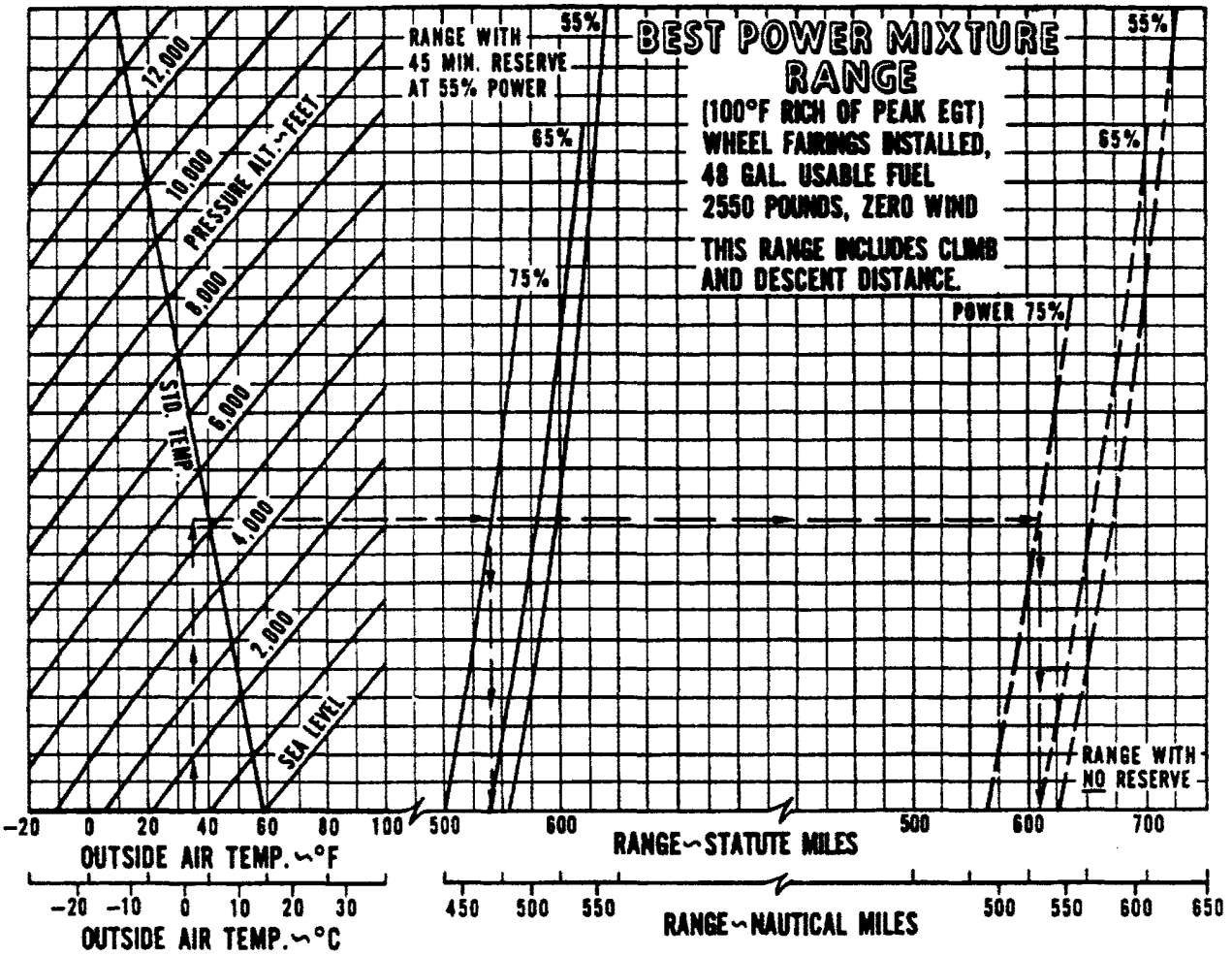
PA-28-181



SPEED POWER - ECONOMY CRUISE

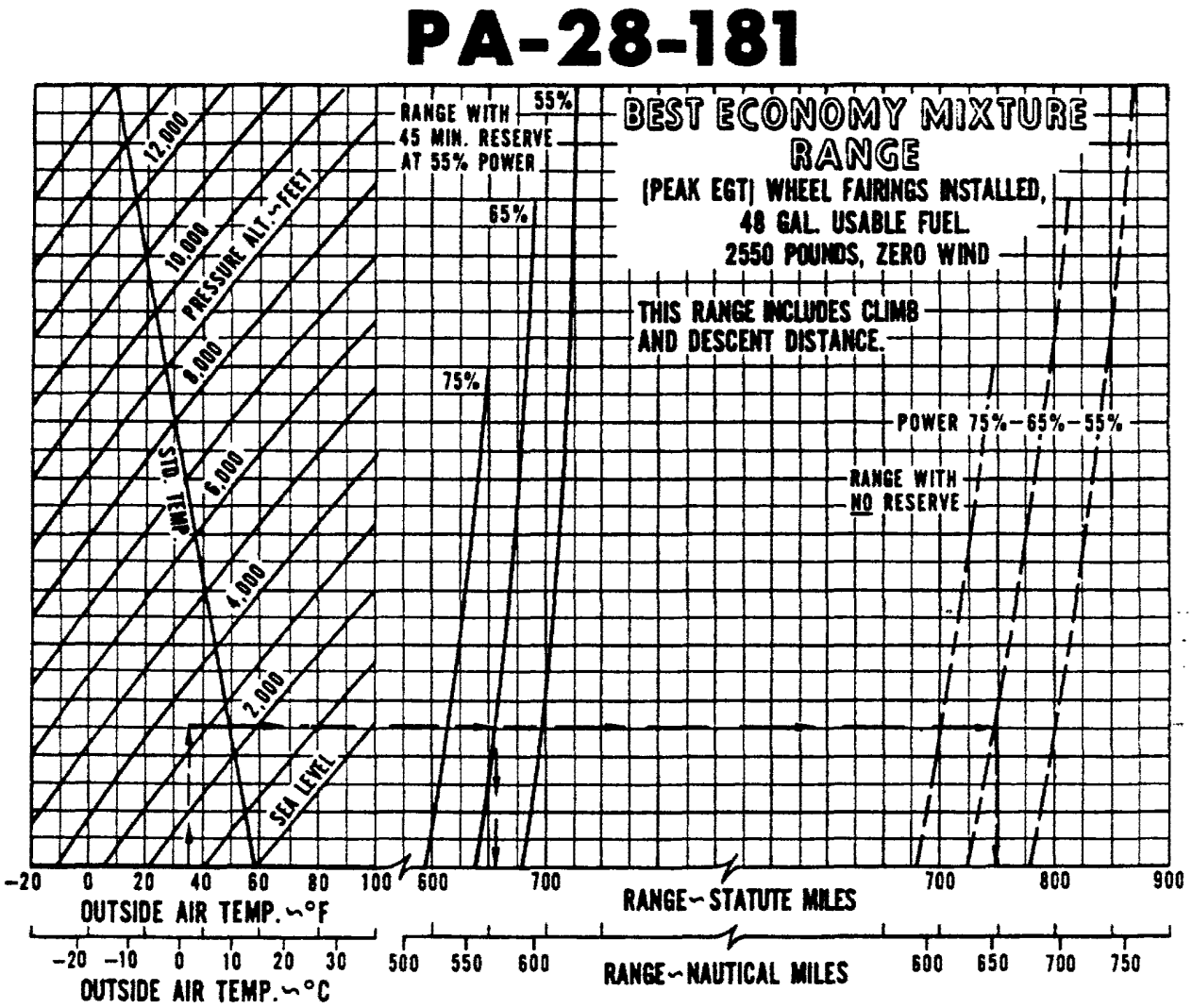
Figure 5-17

PA-28-181



BEST POWER MIXTURE - RANGE

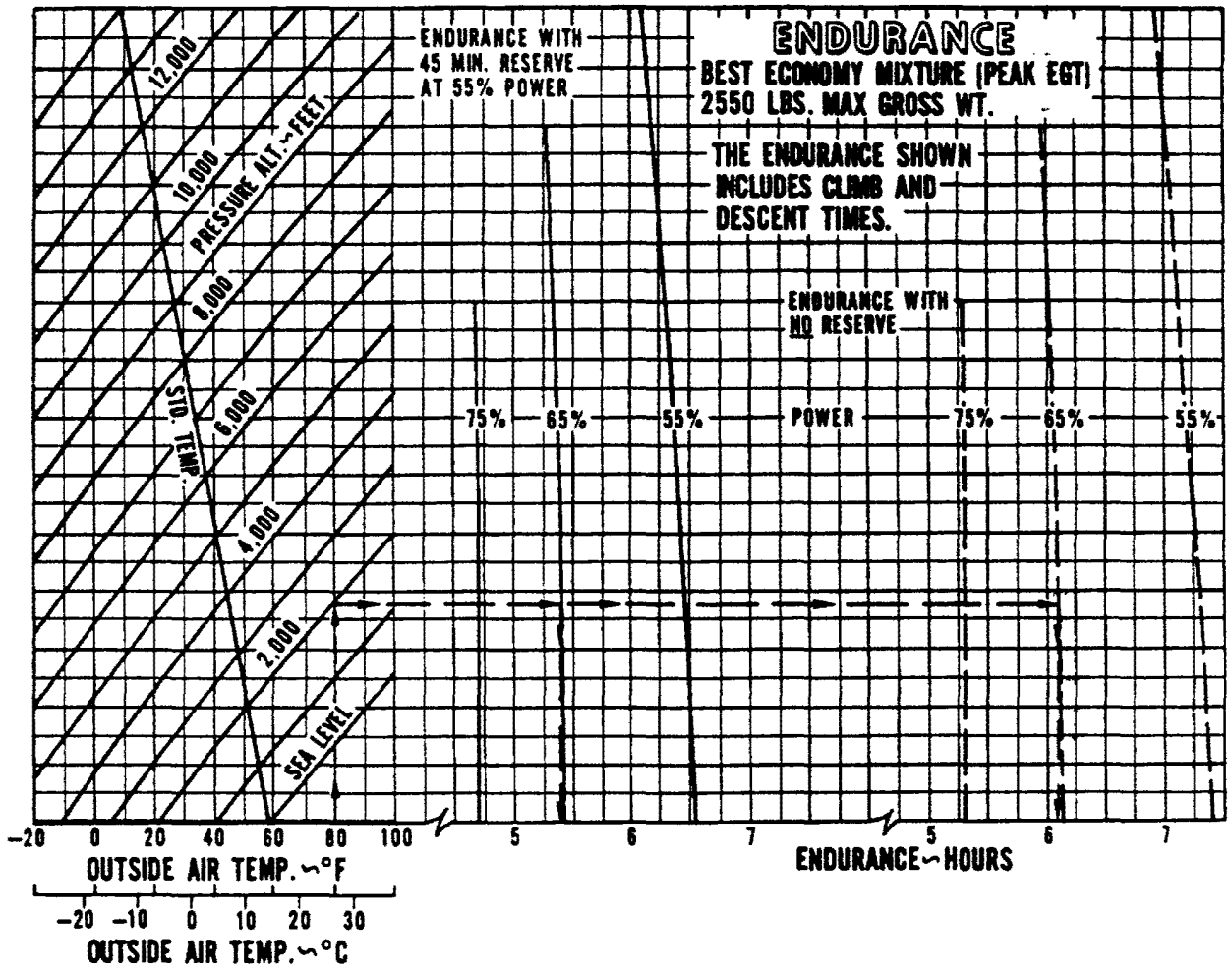
Figure 5-19



BEST ECONOMY MIXTURE - RANGE

Figure 5-21

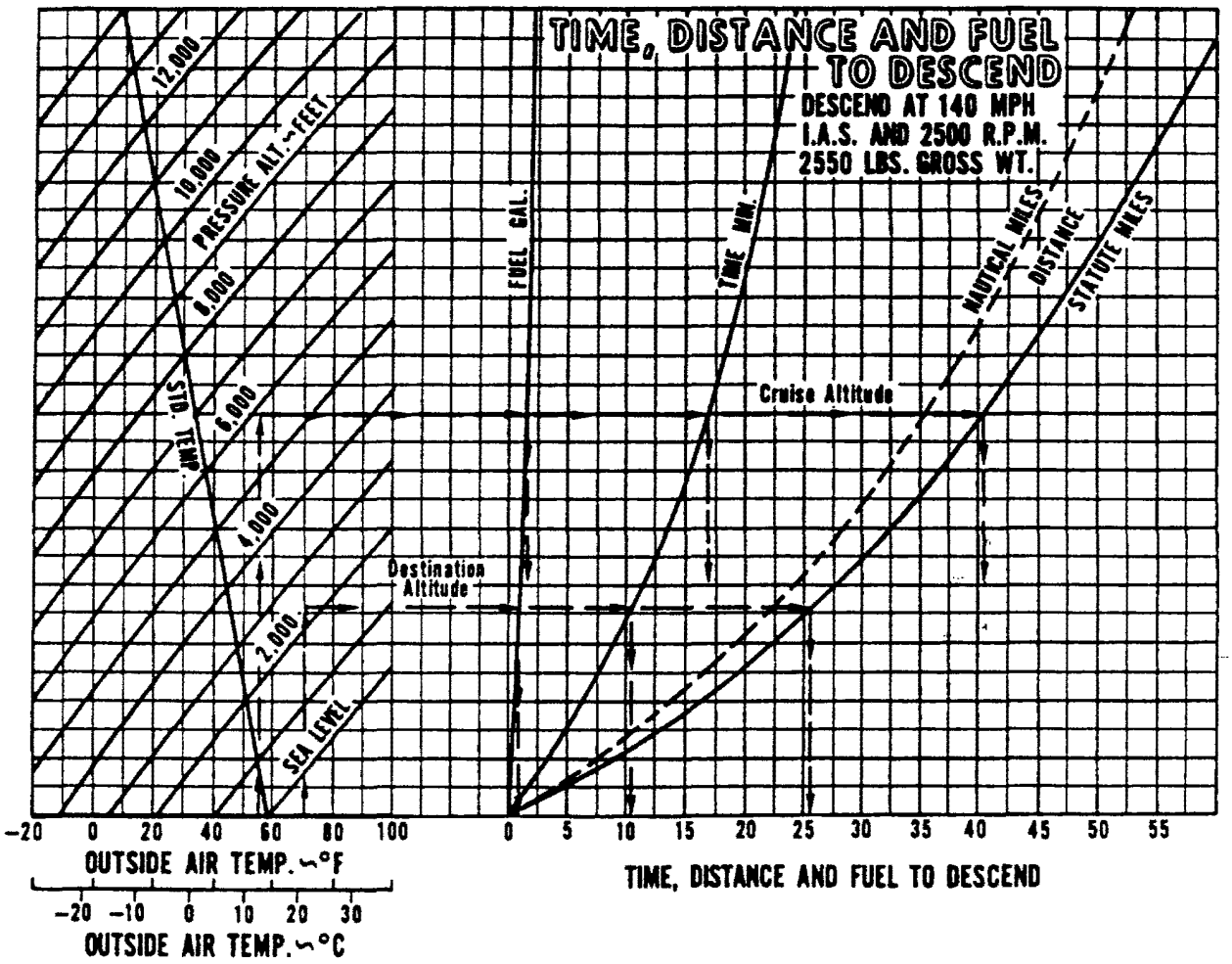
PA-28-181



ENDURANCE

Figure 5-23

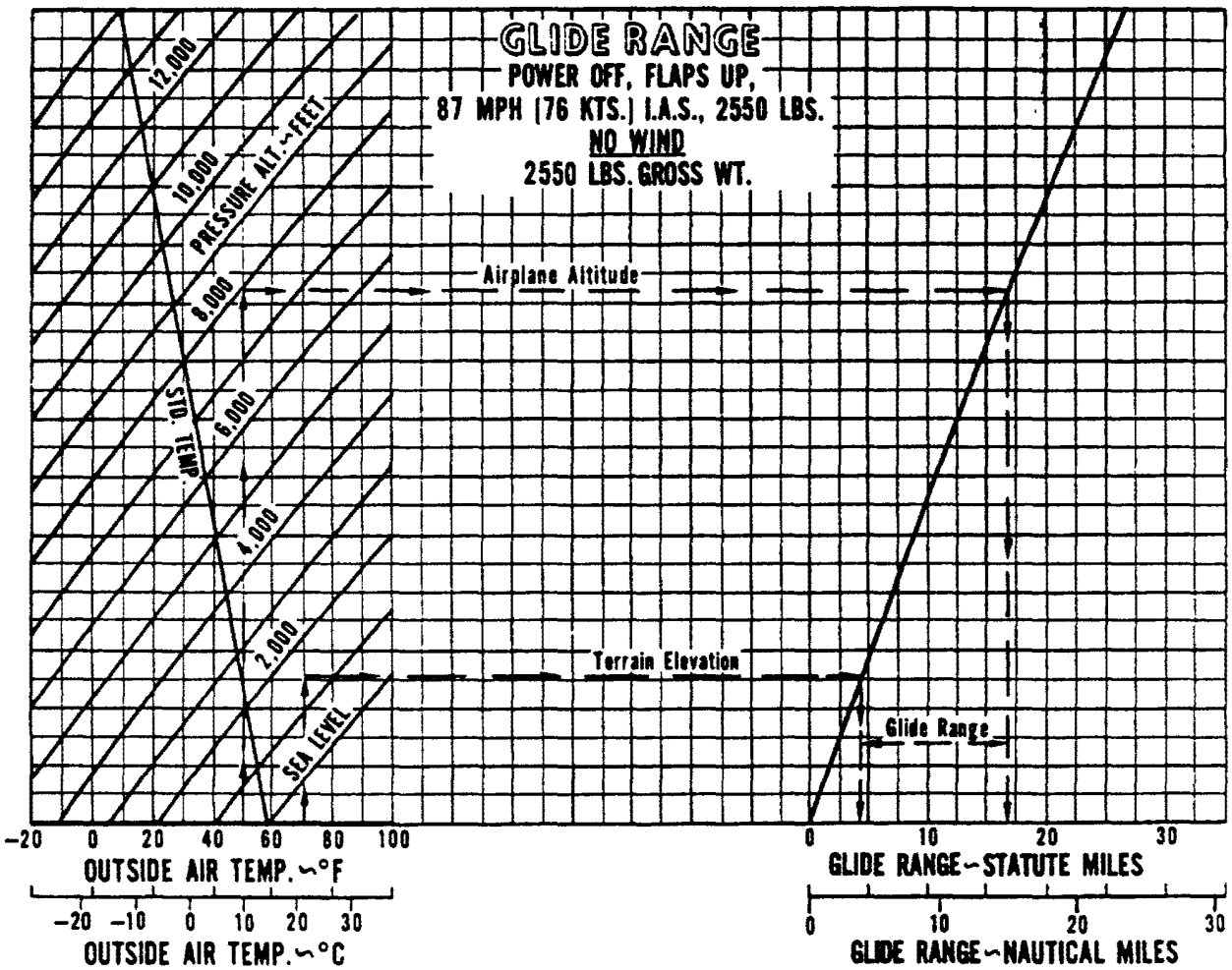
PA-28-181



TIME, DISTANCE AND FUEL TO DESCEND

Figure 5-25

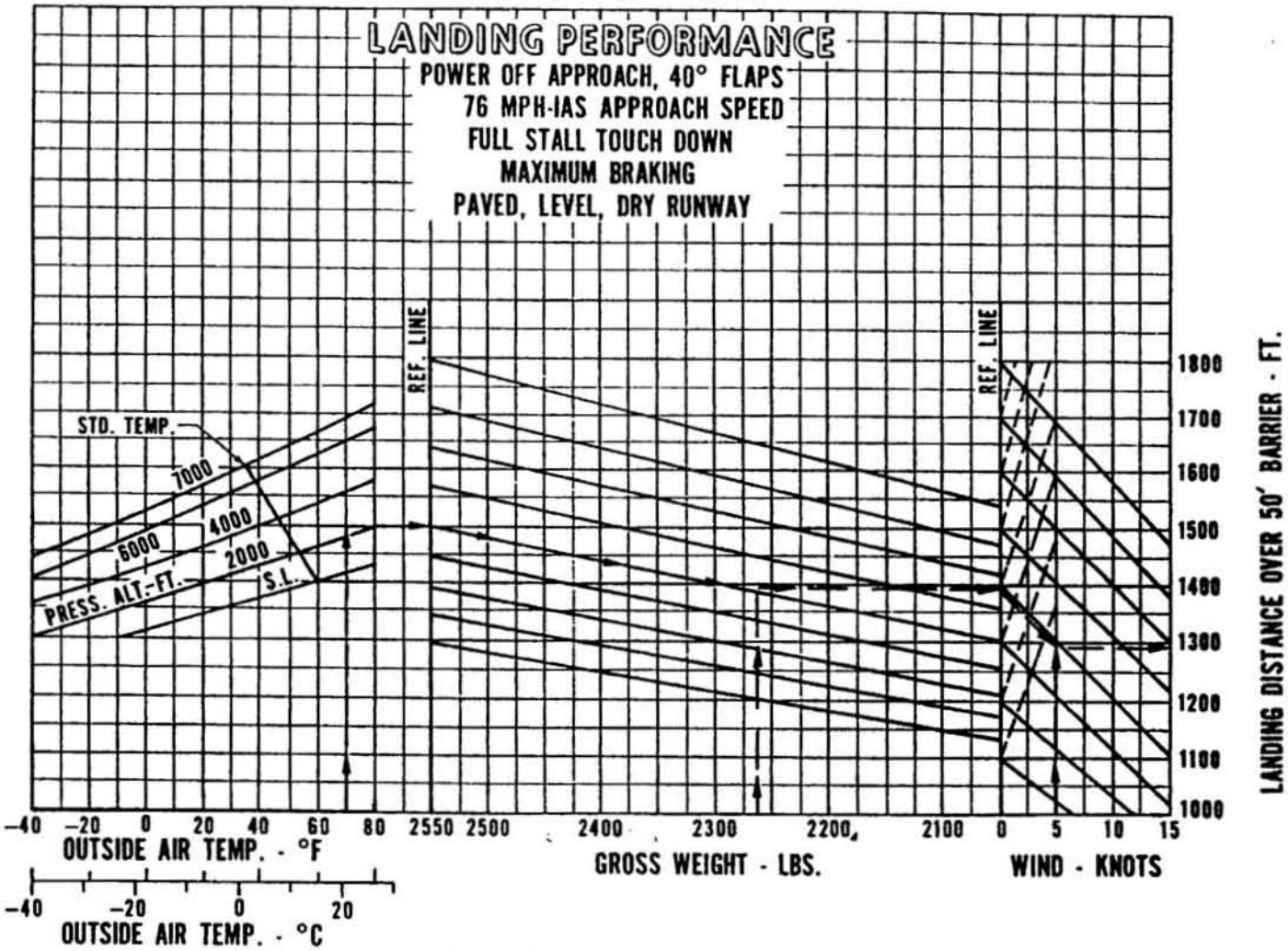
PA-28-181



GLIDE RANGE

Figure 5-27

PA-28-181



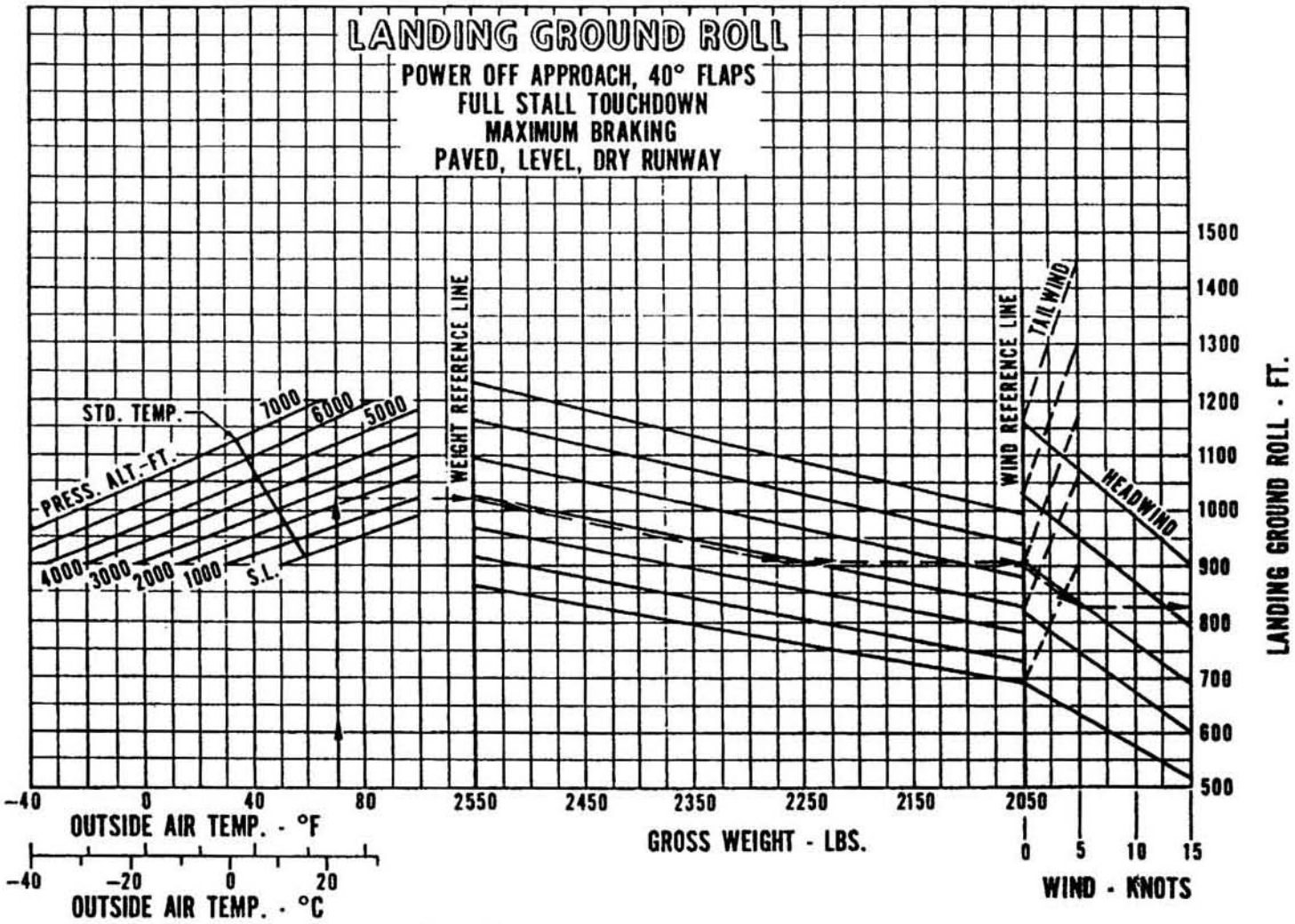
Example:

Airport pressure altitude: 2300 ft.
Gross weight: 2264 lbs.
Temperature: 70°F
Wind: 5 knots (headwind)
Landing distance: 1290 ft.

LANDING PERFORMANCE

Figure 5-29

PA-28-181



Example:

Airport pressure altitude: 2300 ft.
Temperature: 70°F
Gross weight: 2264 lbs.
Wind: 5 knots (headwind)
Ground roll: 825 ft.

LANDING GROUND ROLL

Figure 5-30