

6.5 Aeroplane Weight

Aeroplane Type: PA28-161

Registration Marking: VH-XSN

Issue  
1

Date  
27/5/2001

Date of Expiry  
INDEFINITE

Aeroplane Weight and Centre of Gravity Data:

Weight Lbs. (see note below)	Arm (Inch aft of Datum)	Index Units Lbs. Inch	Cabin Configuration
1564 (709.4 Kg)	88.04 (2236.2mm)	137694.6 (1586371.6)	4 Seater

Note: The above weight includes: Unusable Fuel and Full Oil.

For Loading System refer to Sample and charts as per 6.7 of Flight Manual.

Approved

*B. W. Morris AN37*  
B.W. MORRIS AN37

**SECTION 6  
WEIGHT AND BALANCE**

**PIPER AIRCRAFT CORPORATION  
PA-28-161, CHEROKEE WARRIOR II**

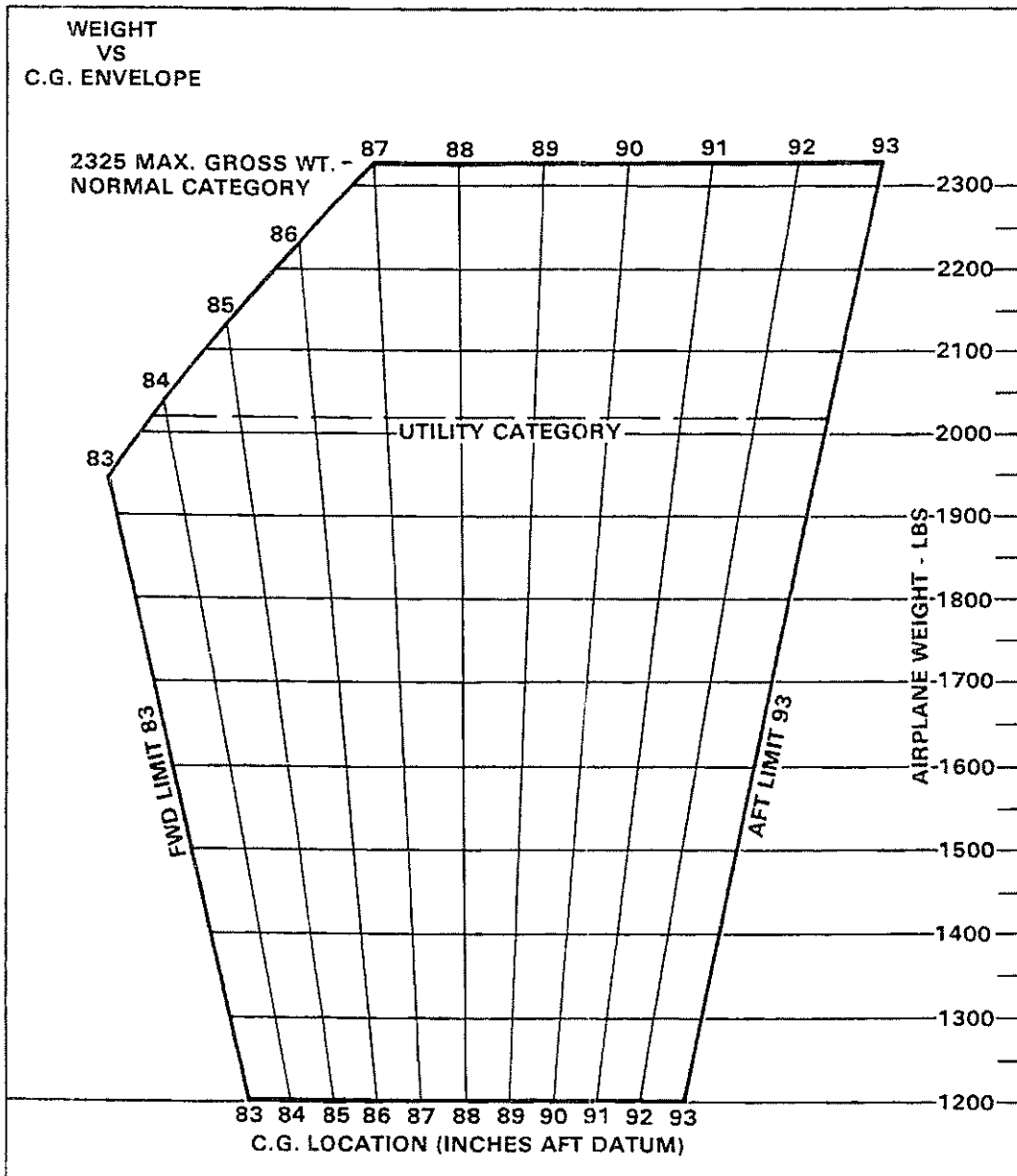
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passenger (Rear Seats)*		118.1	
Fuel (48 Gallon Maximum)		95.0	
Baggage* (200 Lbs. Maximum)		142.8	
Total Loaded Airplane			

Totals must be within approved weight and C.G. limits. It is the responsibility of the airplane owner and the pilot to insure that the airplane is loaded properly. The Basic Empty Weight C.G. is noted on the Weight and Balance Data Form (Figure 6-5). If the airplane has been altered, refer to the Weight and Balance Record for this information.

\*Utility Category Operation - No baggage or aft passengers allowed.

**WEIGHT AND BALANCE LOADING FORM**

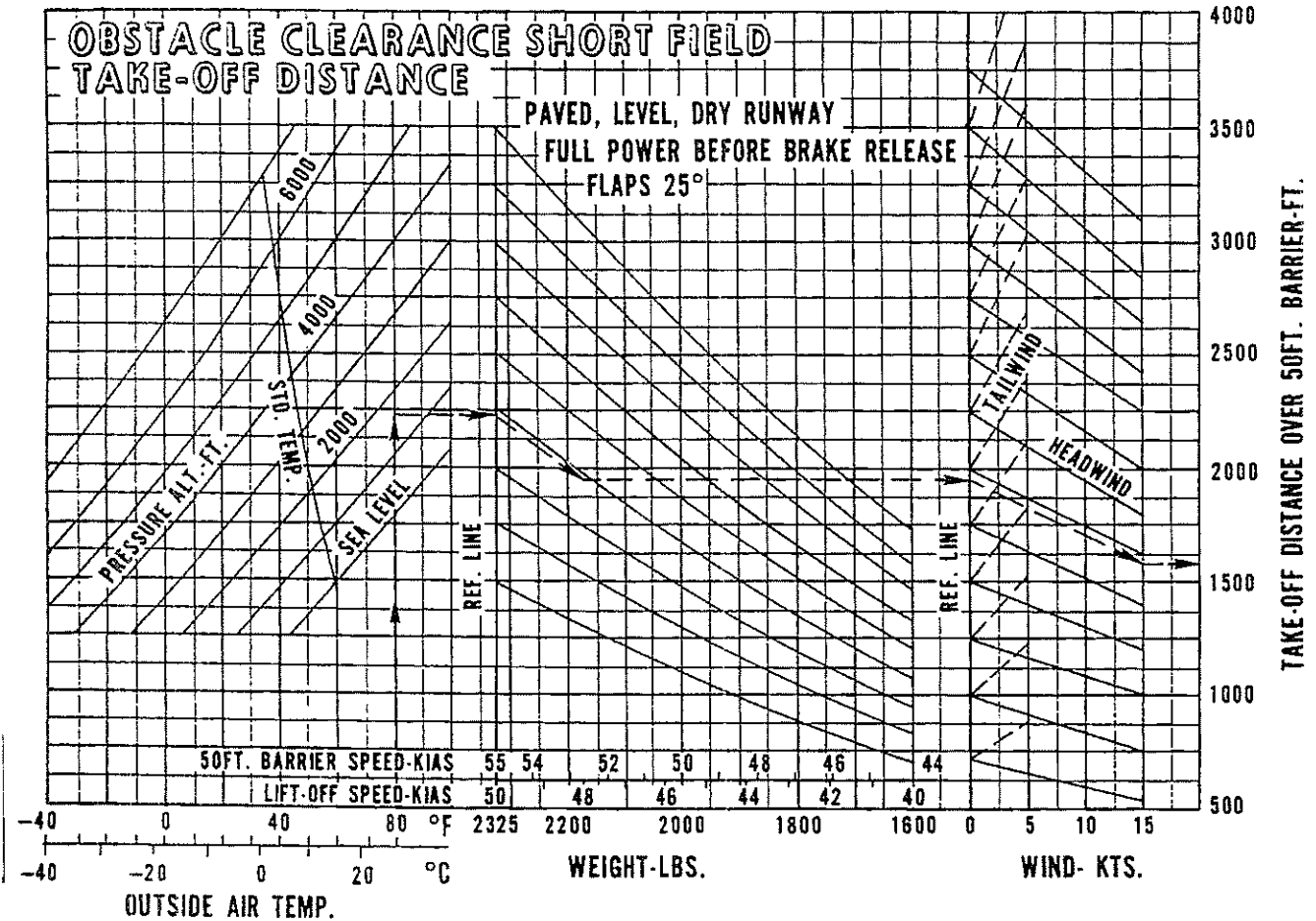
Figure 6-11



C. G. RANGE AND WEIGHT

Figure 6-15

# PA-28-161

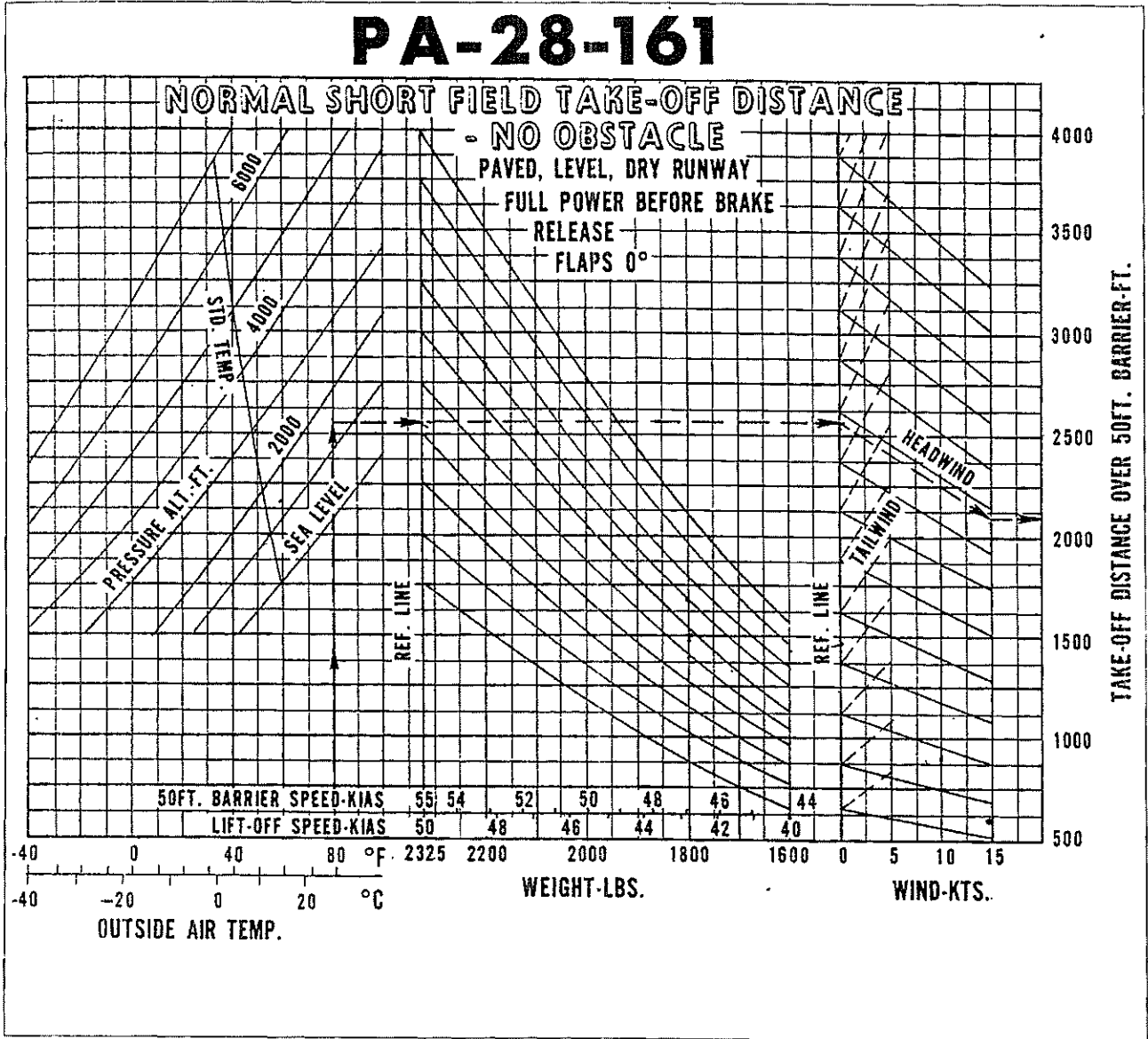


Example:

- Departure airport pressure altitude: 1500 ft.
- Departure airport temperature: 80°F
- Weight: 2175 lbs.
- Wind: 15 KTS headwind
- Distance over 50 ft. barrier: 1600 ft.
- Lift-off speed: 48 KIAS
- Barrier speed: 53 KIAS

OBSTACLE CLEARANCE SHORT FIELD TAKEOFF DISTANCE

Figure 5-8



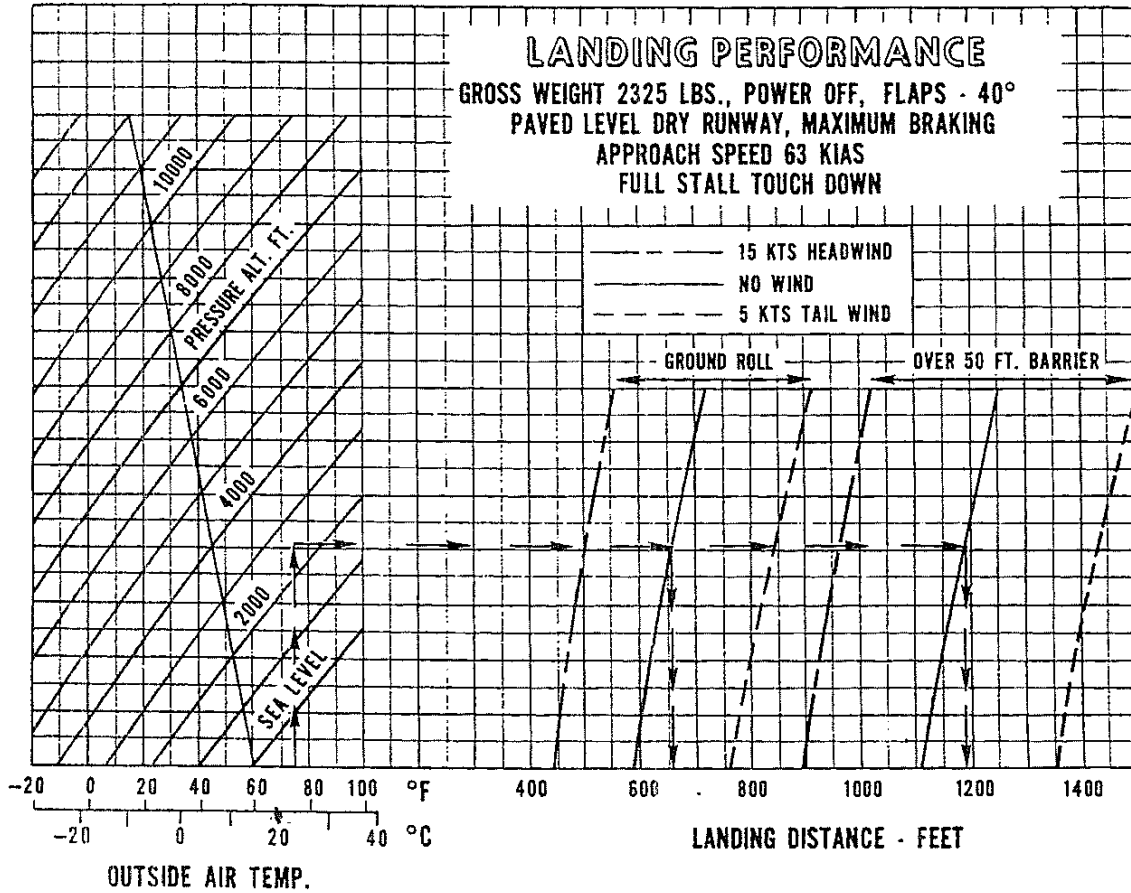
Example:

- Departure airport pressure altitude: 1500 ft.
- Departure airport temperature: 80°F
- Weight: 2325 lbs.
- Wind: 15 KTS headwind
- Distance over 50 ft. barrier: 2100 ft.
- Lift-off speed: 50 KIAS
- Barrier speed: 55 KIAS

NORMAL SHORT FIELD TAKEOFF DISTANCE - NO OBSTACLE

Figure 5-6

# PA-28-161



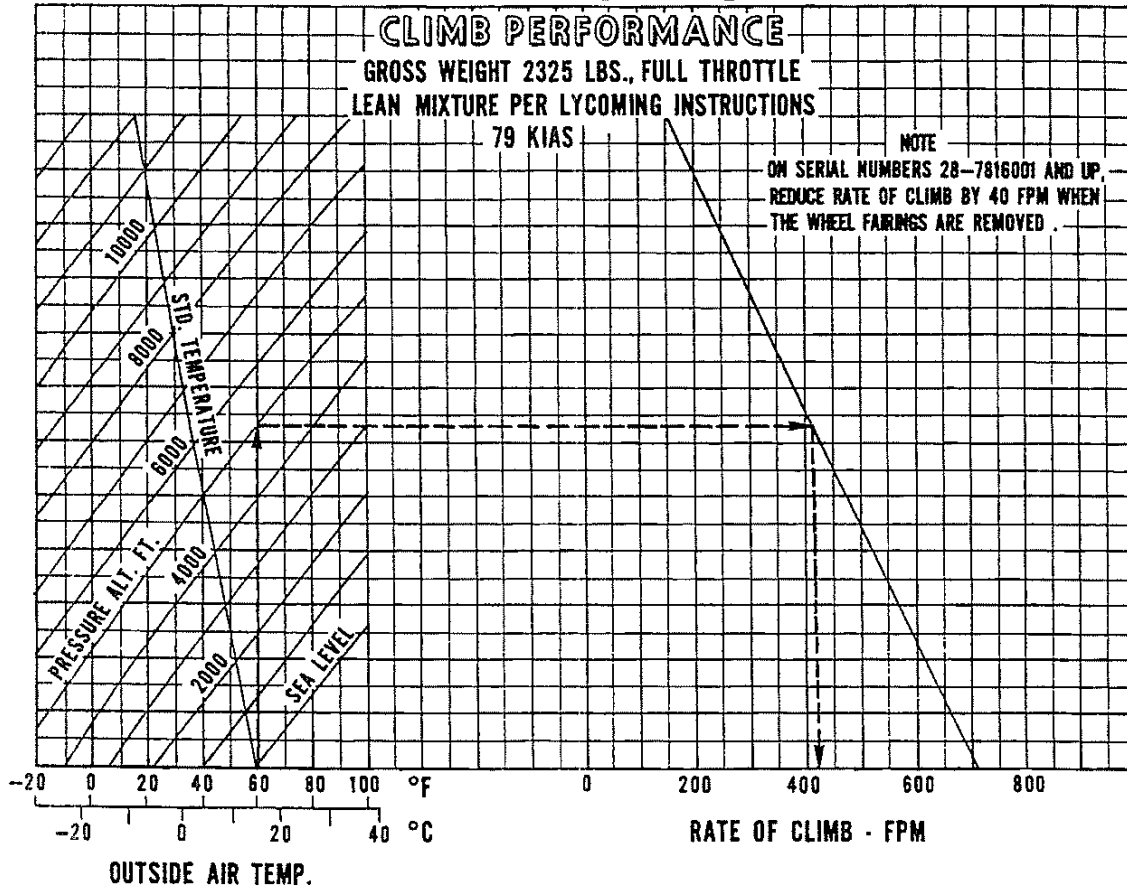
Example:

- Destination airport pressure altitude: 2500 ft.
- Destination airport temperature: 75°F
- Destination airport wind: 0 KTS
- Ground roll: 660 ft.
- Distance over 50 ft. barrier: 1190 ft.

## LANDING PERFORMANCE

Figure 5-29

# PA-28-161



Example:  
Climb pressure altitude: 5000 ft.  
Climb OAT: 60°F  
Rate of climb: 420 ft/min.

## CLIMB PERFORMANCE

Figure 5-11

ISSUED: DECEMBER 16, 1976  
REVISED: JUNE 30, 1978

REPORT: VB-880  
5-19