

6.2 AEROPLANE WEIGHT

Aeroplane Type: PIPER PA28-161

Registration Marking: VH- MEY S/N. 28-8216169

Issue	Date	Date of Expiry
ONE	5-9-87	INDEFINITE

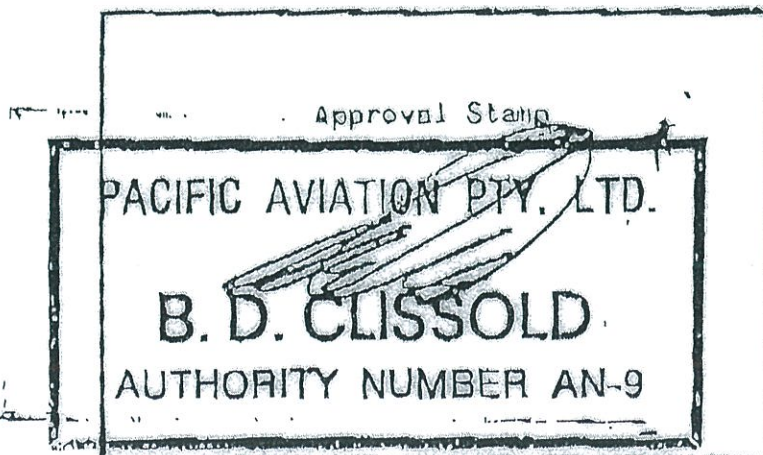
Aeroplane Weight and Centre of Gravity Data:

Item	Weight kg	Arm mm Aft of datum	Index Unit kg mm	Cabin Configuration
BASIC	689.5	2216	1528.343	FOUR SEATS TOTAL
EMPTY	682.7	2232	1523.593	FOUR SEATS TOTAL

NOTE: The above weight's include

BASIC - UNUSABLE FUEL AND FULL OIL

EMPTY - UNUSABLE FUEL & UNDRAINABLE OIL



SECTION 6
WEIGHT AND BALANCE

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

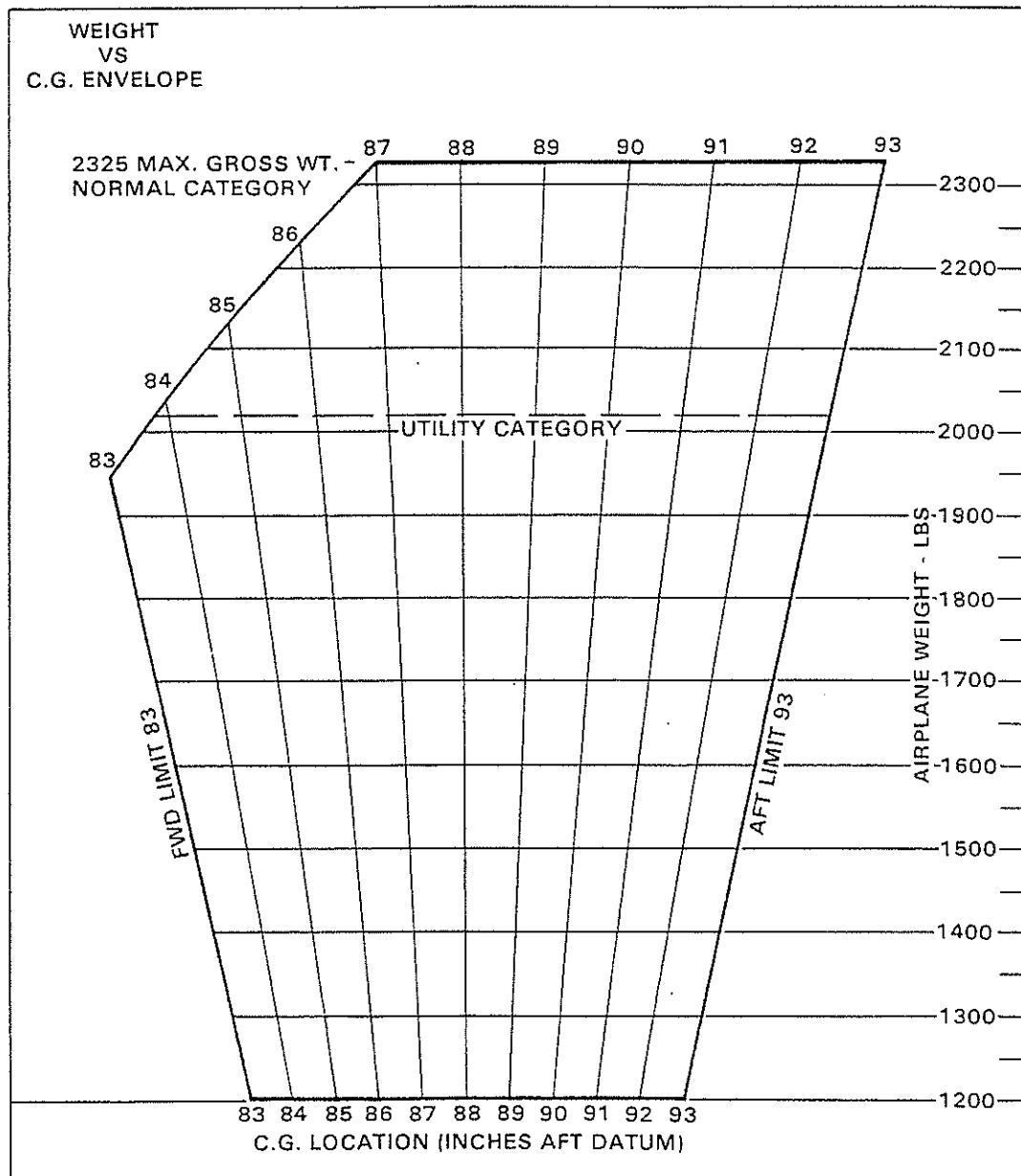
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passenger (Rear Seats)*		118.1	
Fuel (48 Gallon Maximum)		95.0	
Baggage* (200 Lbs. Maximum)		142.8	
Total Loaded Airplane			

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

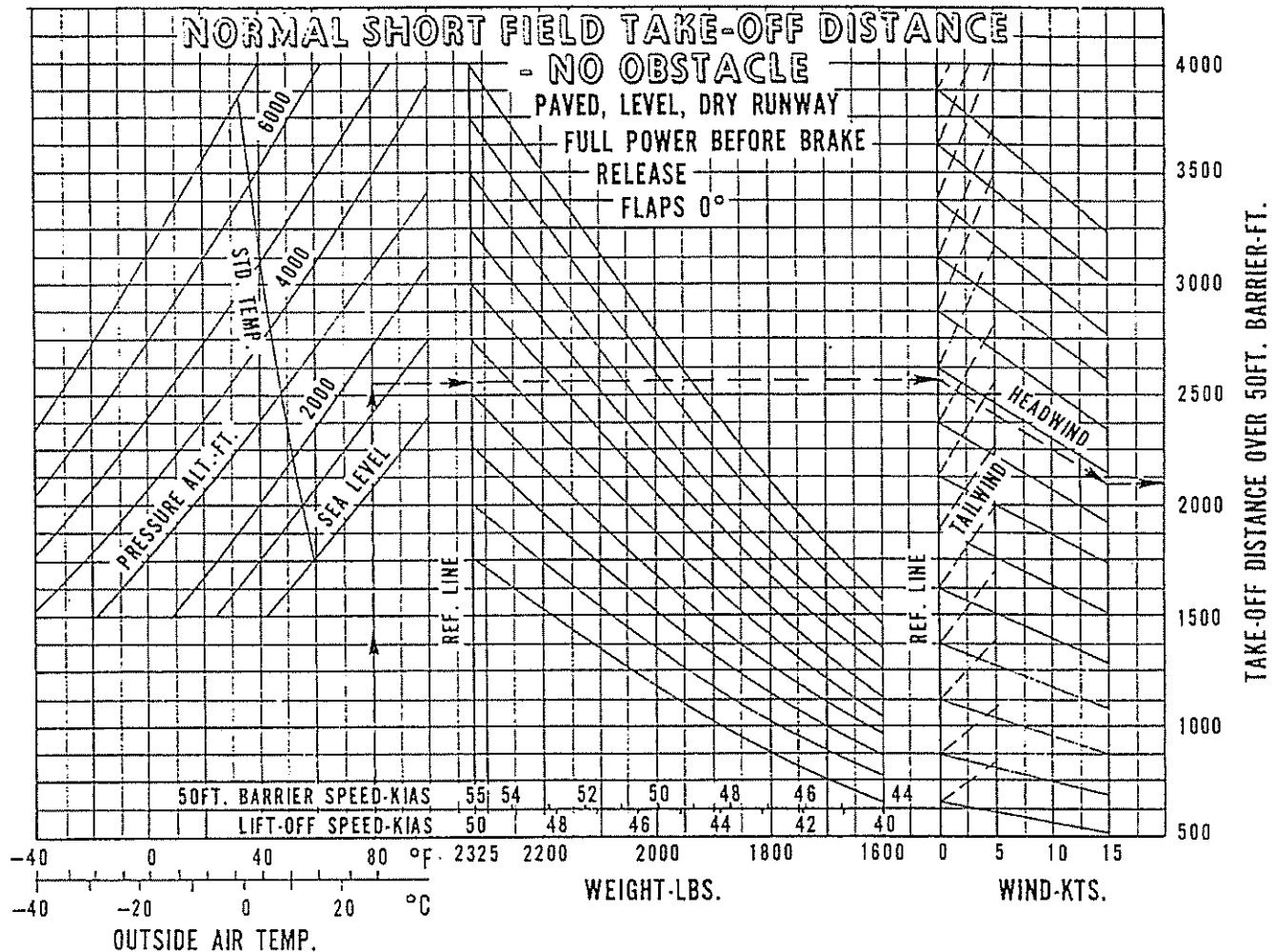
Figure 6-11



C. G. RANGE AND WEIGHT

Figure 6-15

PA-28-161



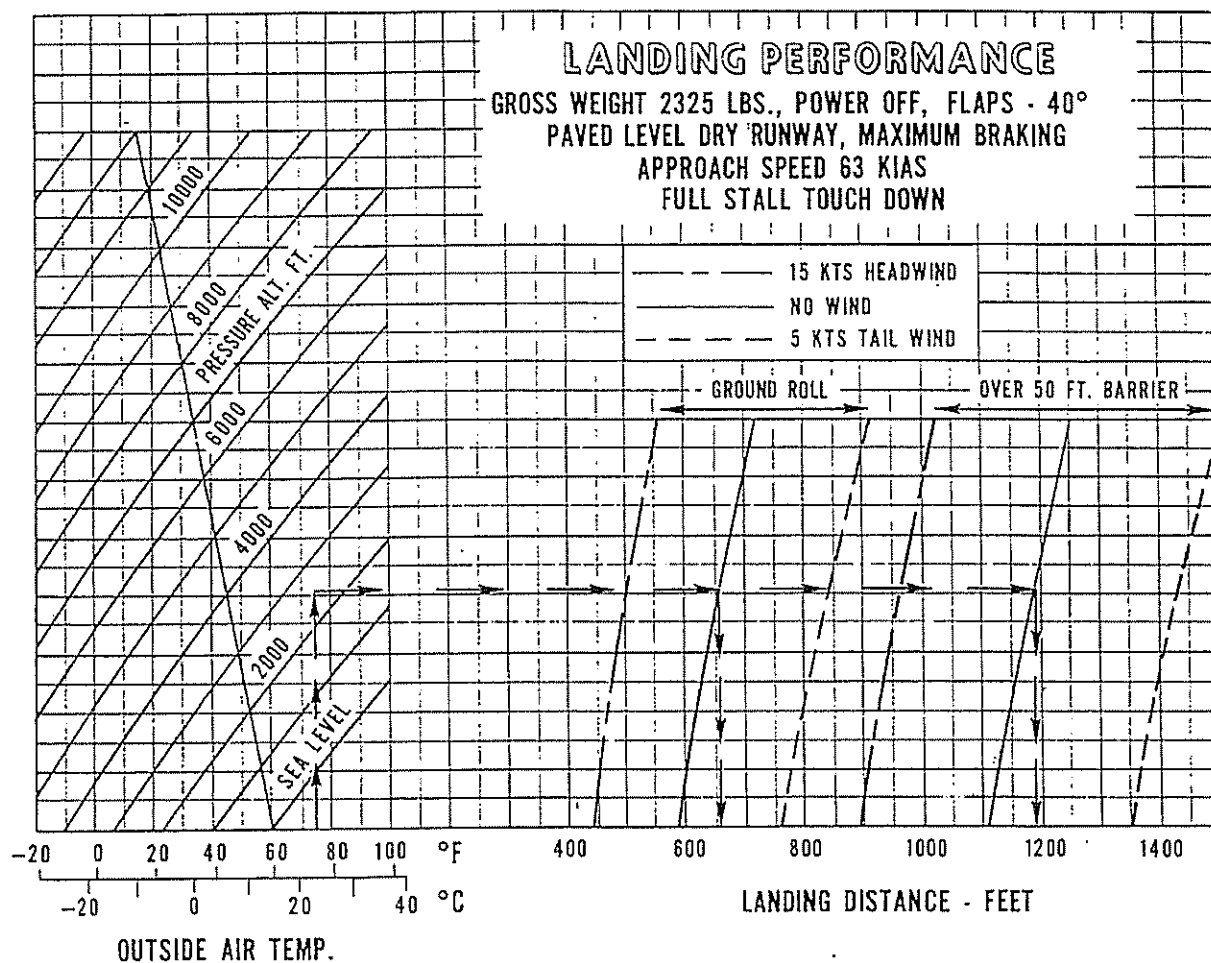
Example:

Departure airport pressure altitude: 1500 ft.
Departure airport temperature: 80°F
Weight: 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



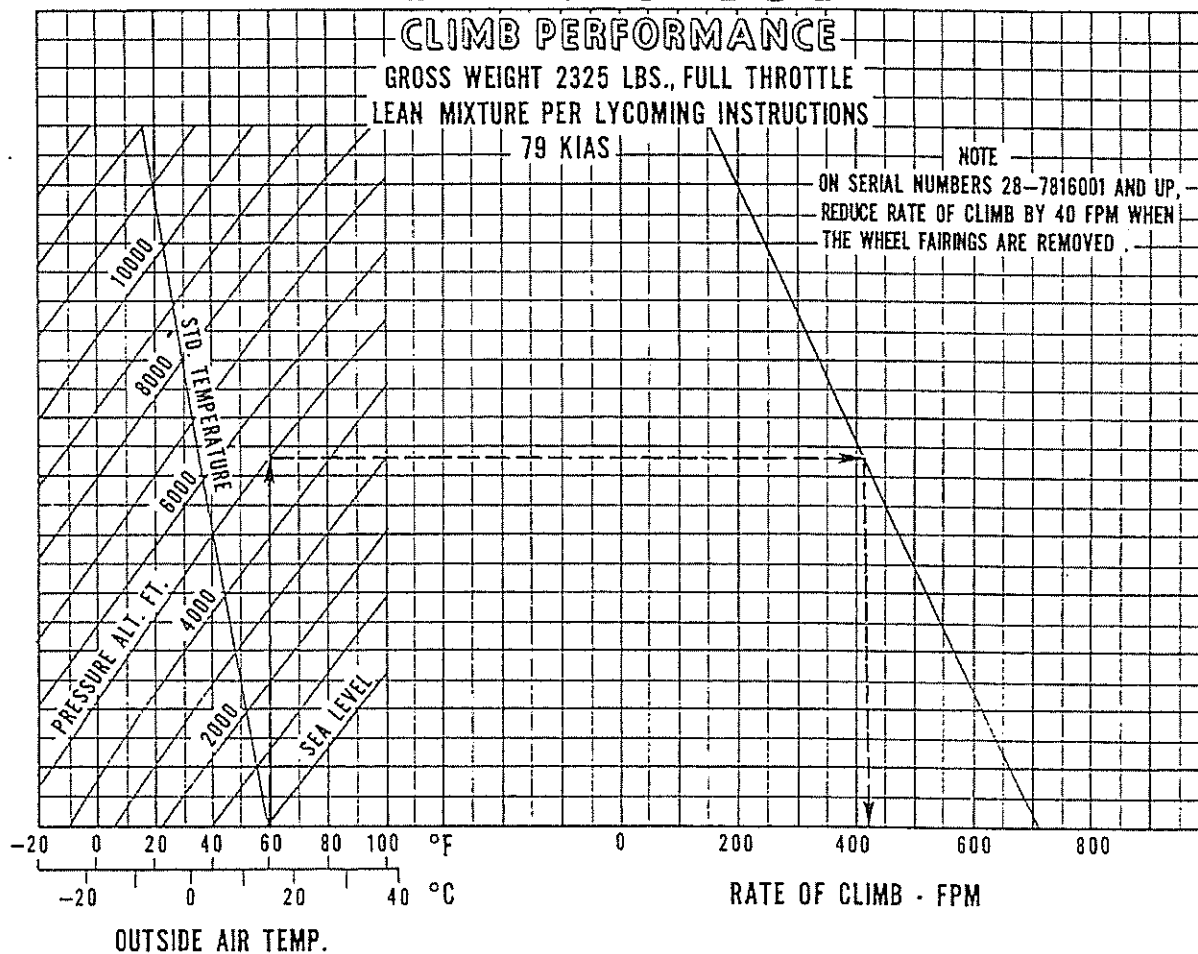
Example:

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