

EPAR	PIPER AIRCRAFT CORPORATION DEVELOPMENT CENTRE, VERO BEACH, FLA.	REPORT VB-838
CHECKED		MODEL PA-28-161 2nd December 1976
APPROVED		Page _____

6.2 - Aeroplane Weight

Aeroplane Type PIPER PA28-161

Registration Marking VH- BVL

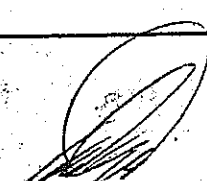
S/N 28-8016232

Issue	Date	Date of Expiry	
ONE	7TH OCTOBER, 1980	INDEFINITE	
Aeroplane Weight and Centre of Gravity Data:			
Weight (Kg) (see note below)	Arm (millimeters) Aft of the Datum	Index Units Kg.mm/1000	Cabin Configuration
EMPTY - 661.4	2207	1459.860	FOUR SEATS
BASIC - 668.3 1470.165	2192	1464.619	FOUR SEATS

Note: The above weight(s) include _____

EMPTY - UNUSABLE FUEL AND UNDRAINABLE OIL

BASIC - UNUSABLE FUEL AND FULL OIL


BRUCE D. CLISSOLD
Authority Number AN-9

**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.

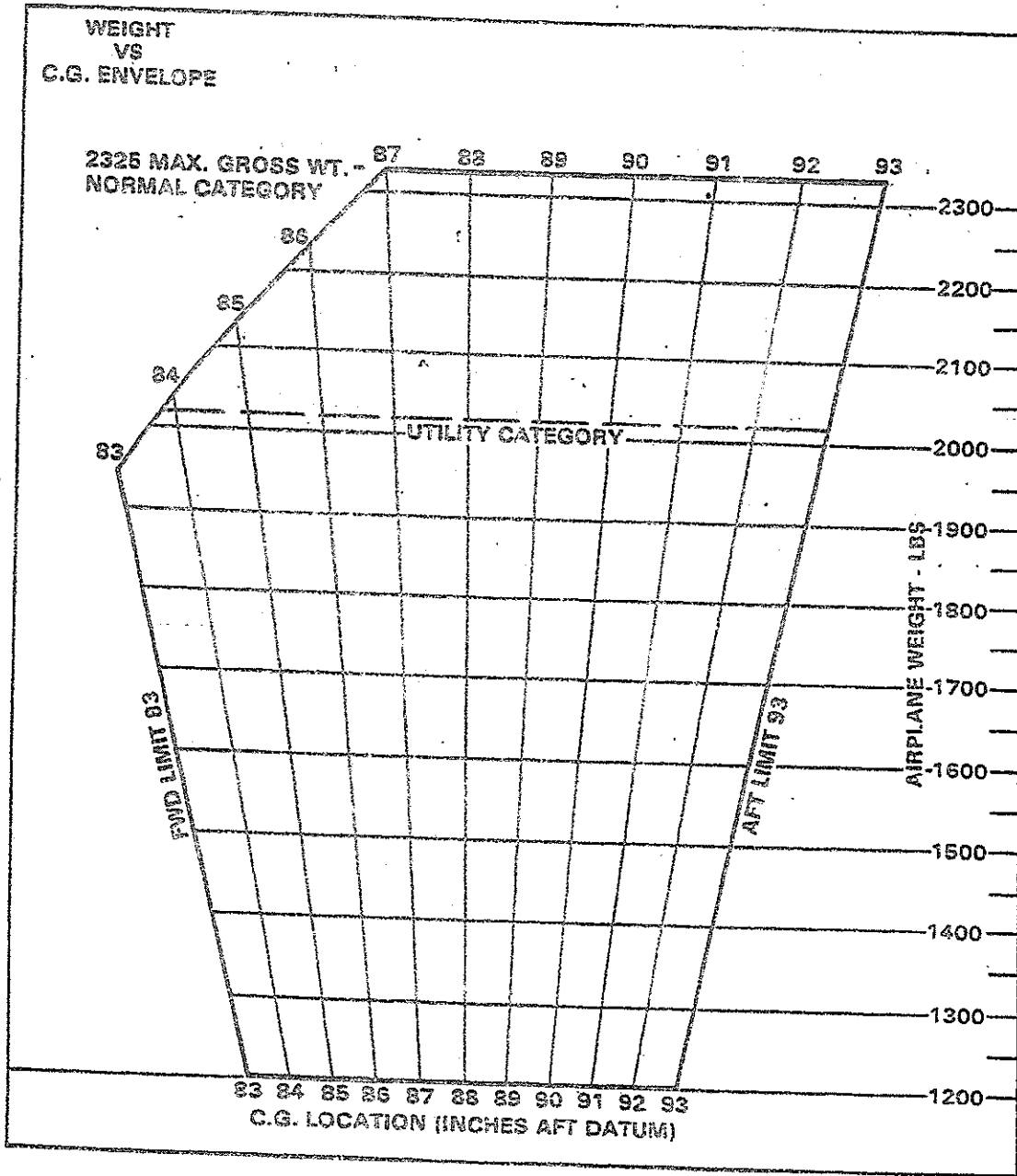
*Utility Category Operation - No baggage or aft passengers allowed.

WEIGHT AND BALANCE LOADING FORM

Figure 6-11

SECTION 6
WEIGHT AND BALANCE

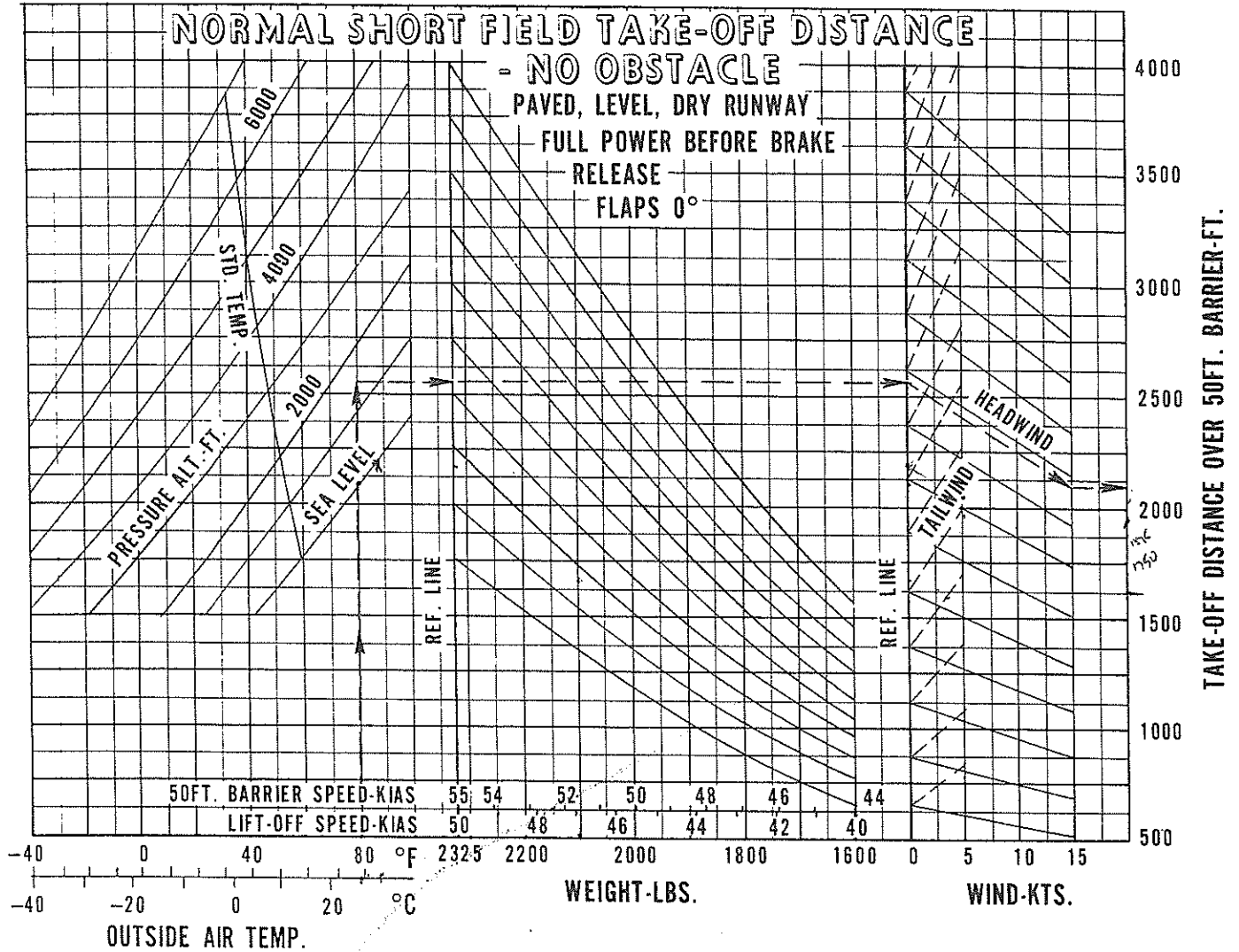
PIPER AIRCRAFT CORPORATION
PA-28-161, CHEROKEE WARRIOR II



C. G. RANGE AND WEIGHT

Figure 6-15

PA-28-161



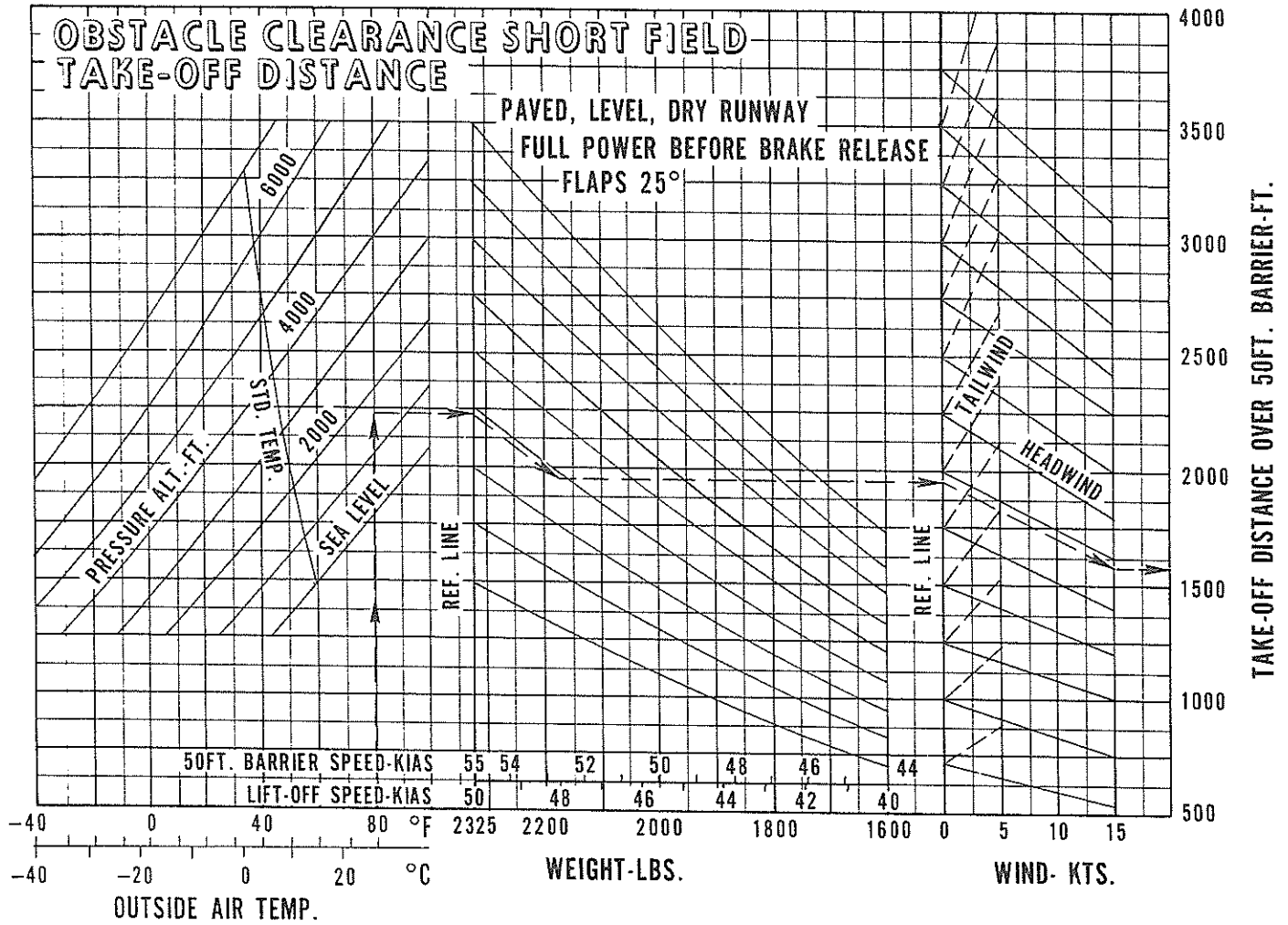
Example:

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



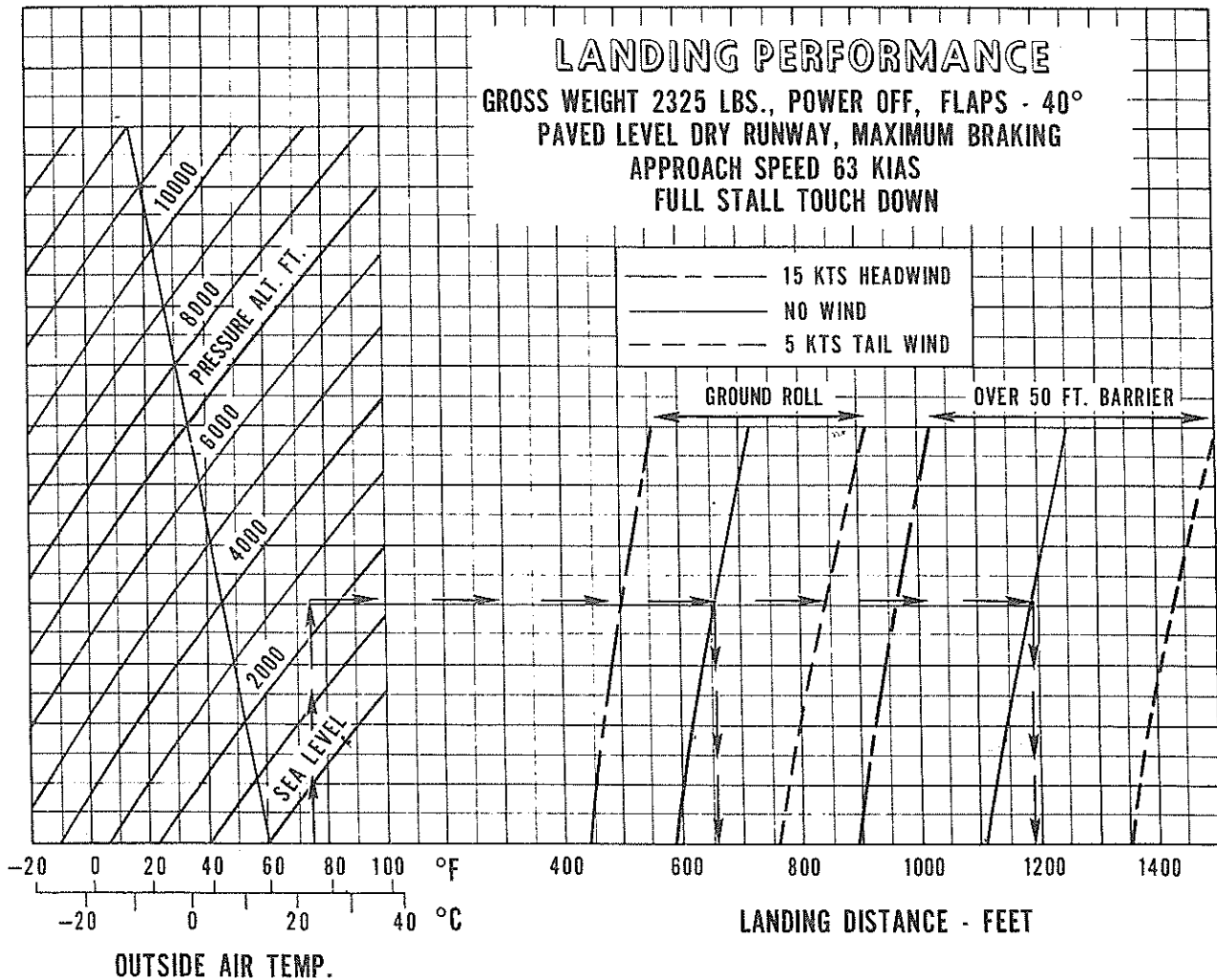
Example:

- 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

PA-28-161



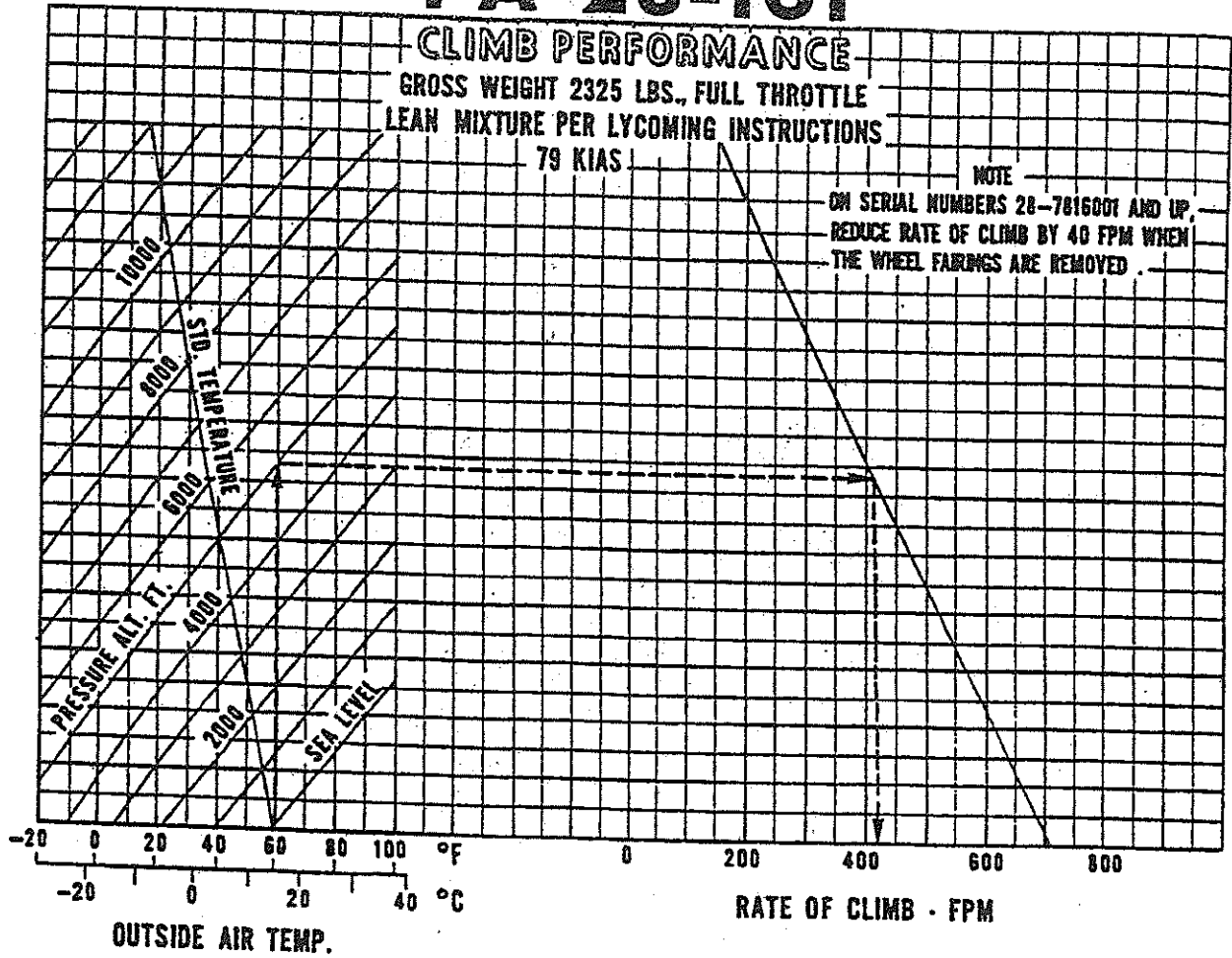
Example:

- 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
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