

PROPERTY	PIPER AIRCRAFT CORP. DEVELOPMENT CENTER, VERO BEACH, FLA.	REPORT VB-838 MODEL PA-28-161 2 December 1976
RECEIVED		FILE

6.2 - Aeroplane Weight

Aeroplane Type Piper PA28-161

Registration Marking VH- ~~2~~ ^{1P0} S/No. 28-7816627

Registration Marking VU-11			
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Note: The above weight(s) include Empty - Unusable fuel and undrainable oil.

Basic - Unusable fuel and full oil.

Bruce D. Clissold
Aircraft Weight Control Authority
Number AN-9.

SECTION 6
WEIGHT AND BALANCE

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

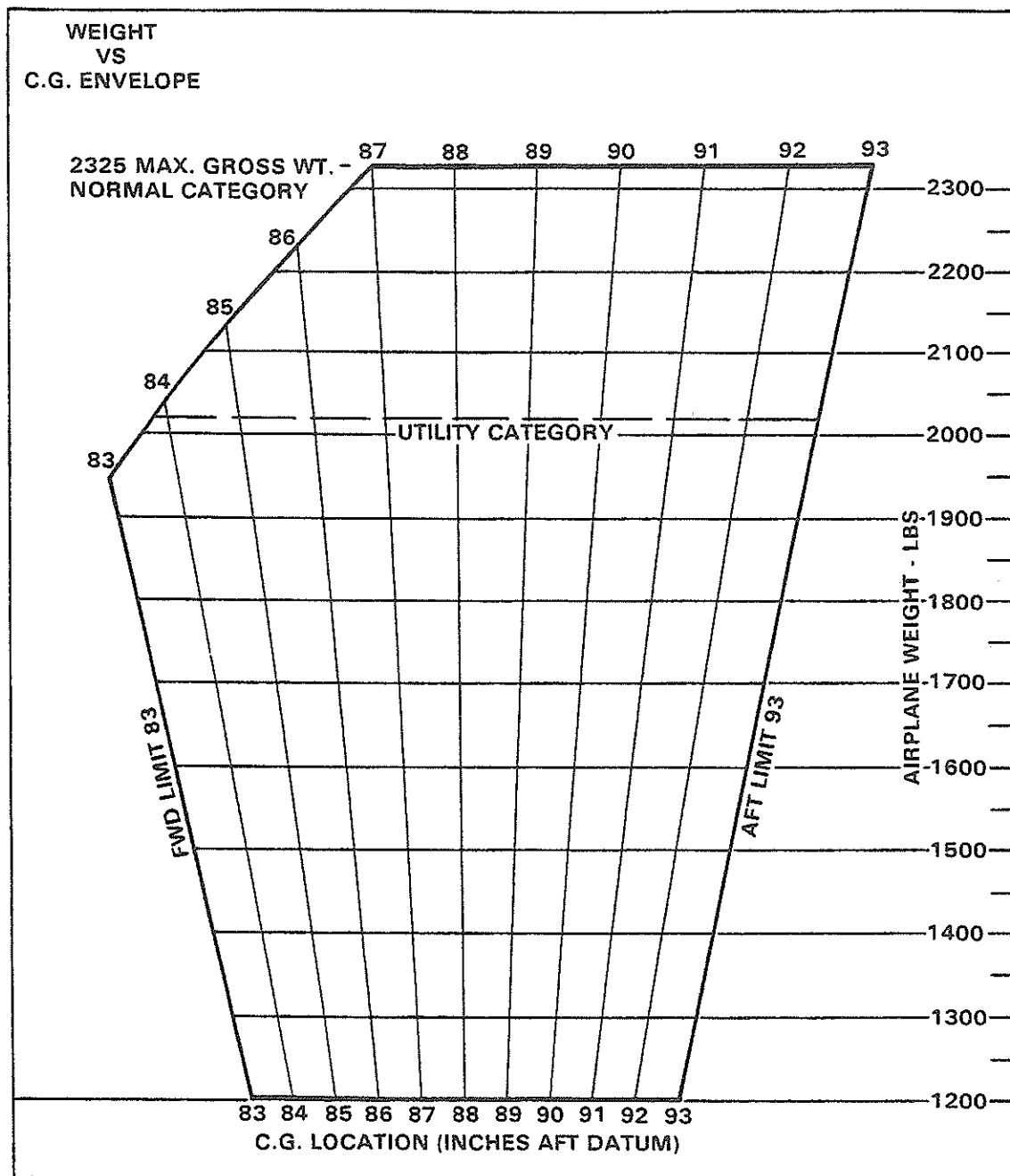
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passenger (Rear Seats)*		118.1	
Fuel (48 Gallon Maximum)		95.0	
Baggage* (200 Lbs. Maximum)		142.8	
Total Loaded Airplane			

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

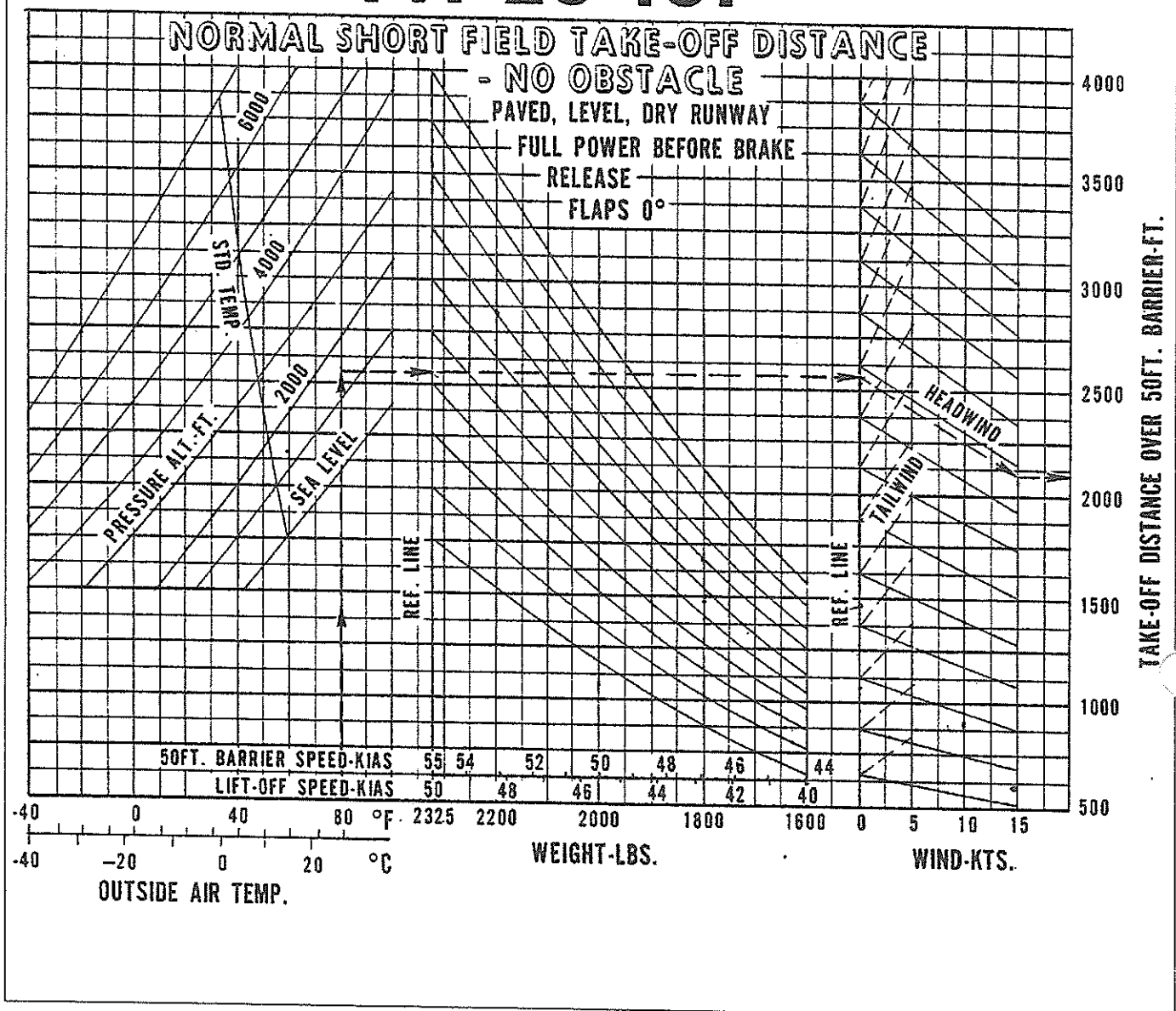
Figure 6-11



C. G. RANGE AND WEIGHT

Figure 6-15

PA-28-161



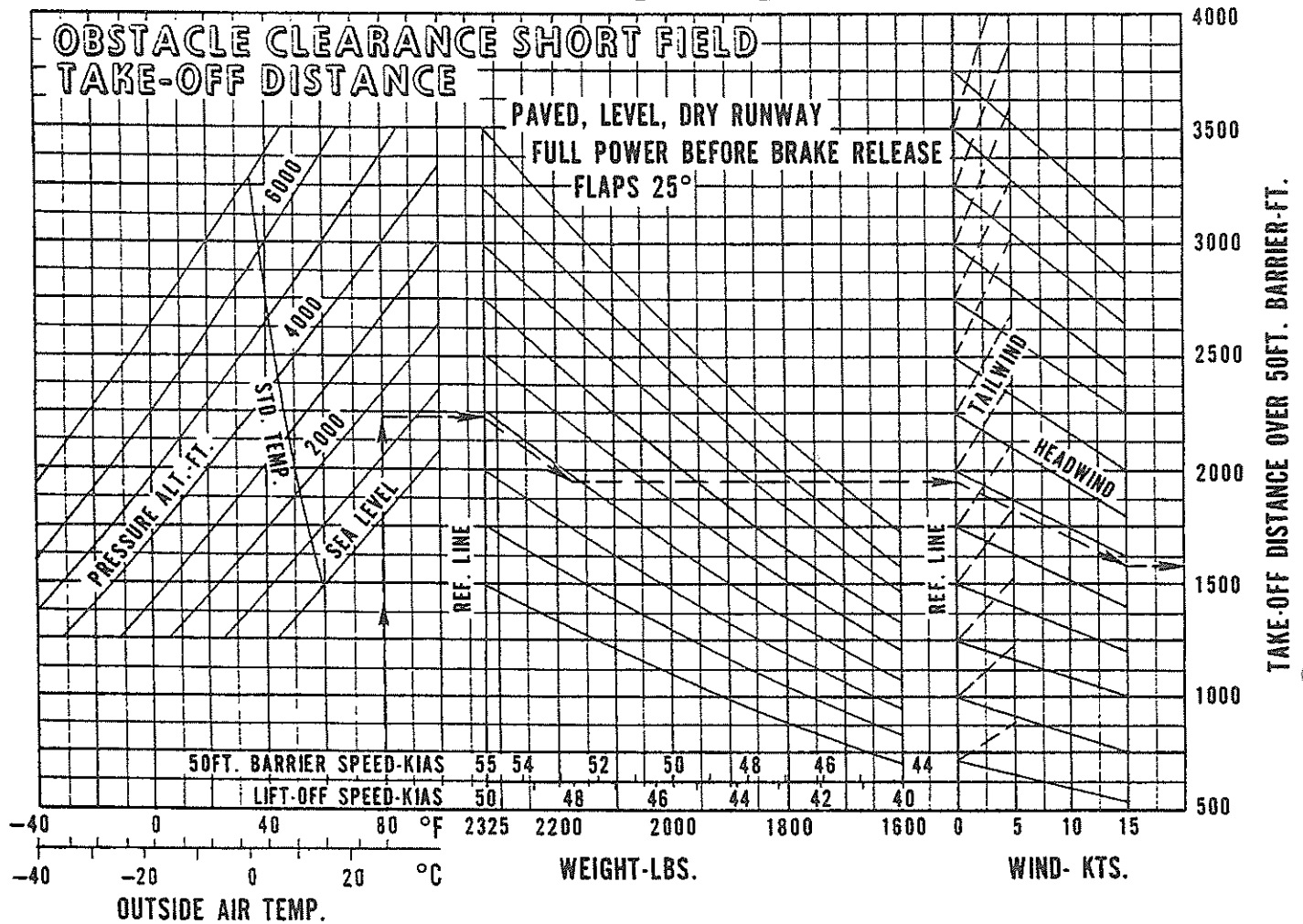
Example:

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

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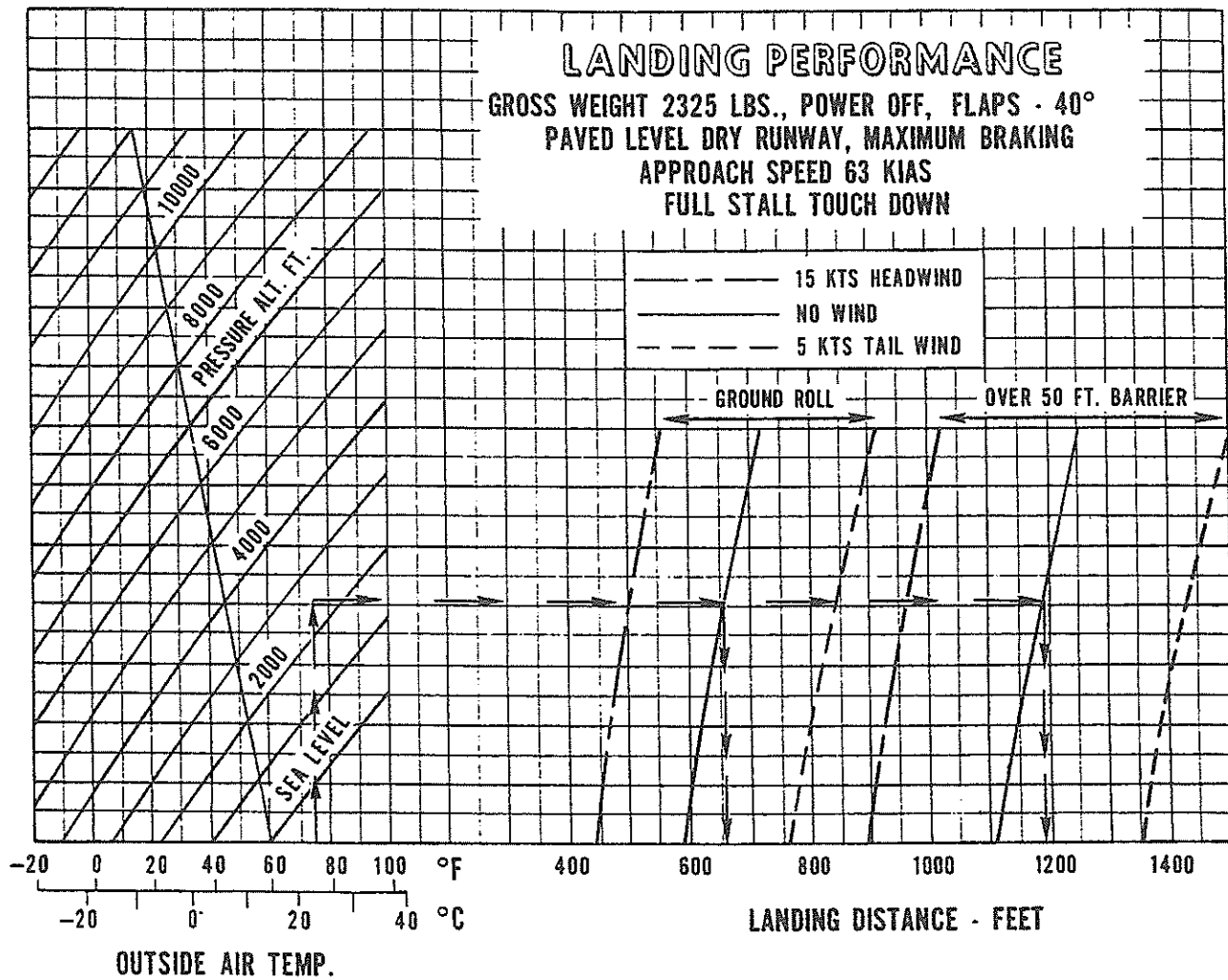
Example:

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

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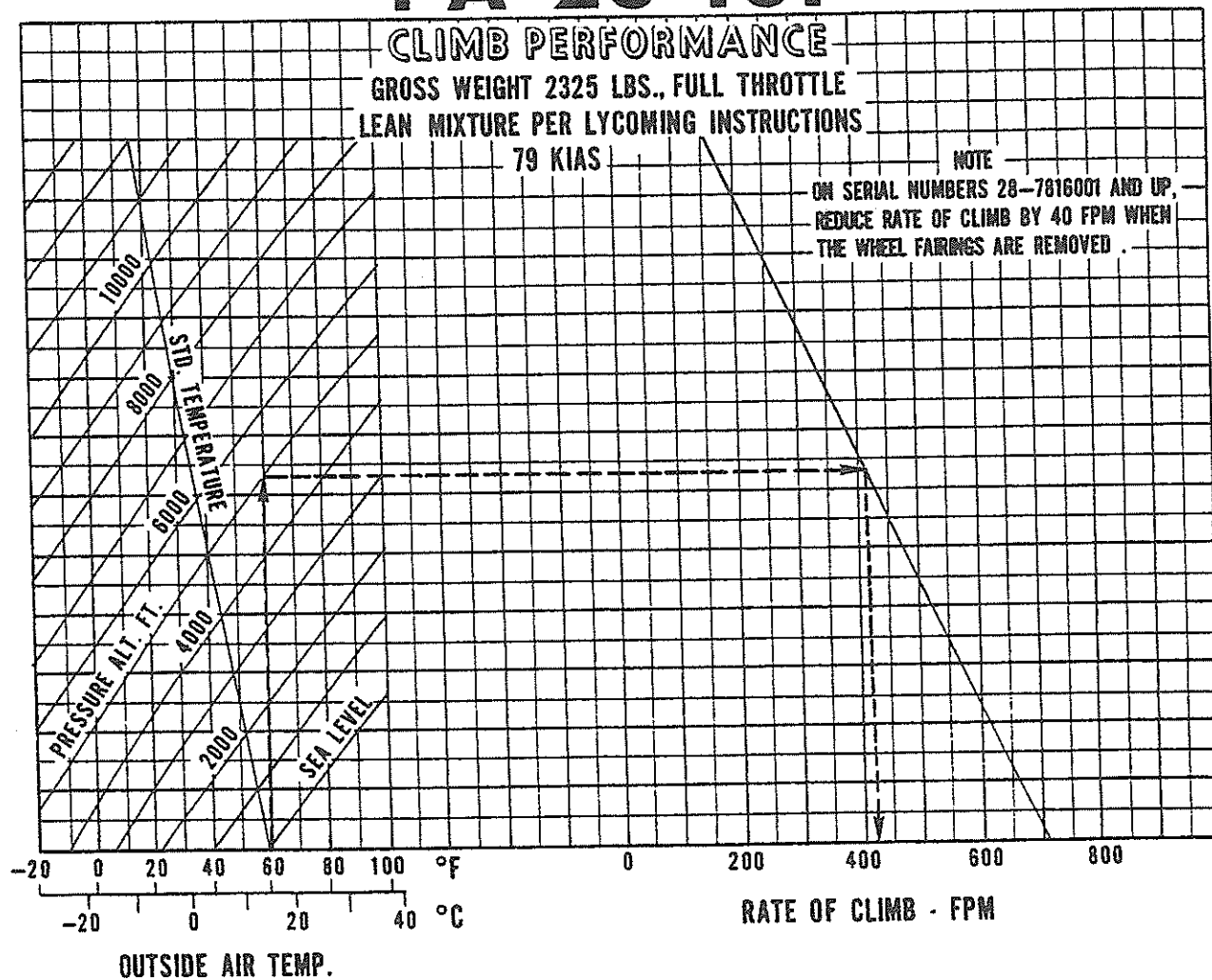
Example:

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

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