

MODEL PA-28-181 CHEROKEE ARCHER II

Airplane Serial Number 28-7890416

Registration Number VH-JQC

Date 02-04-00

AIRPLANE BASIC EMPTY WEIGHT

Item		Weight	x	C. G. Arm	=	Moment
		(Lbs)		(Inches Aft of Datum)		(In-Lbs)
Standard Empty Weight*	Actual Computed					
Optional Equipment						
Basic Empty Weight		(1554.1) 705.0		(85.9) 2182.1		(133514) 153824.4

*The standard empty weight includes full oil capacity and 2.0 gallons of unusable fuel.

AIRPLANE USEFUL LOAD

(Gross Weight) - (Basic Empty Weight) = Useful Load
1156 KG 705 KG 451 KG

Normal Category (2550 lbs) - (1554 lbs) = 996 lbs.

Utility Category (2130 lbs) - (lbs) = lbs.

THIS BASIC EMPTY WEIGHT, C.G. AND USEFUL LOAD ARE FOR THE AIRPLANE AS LICENSED AT THE FACTORY. REFER TO APPROPRIATE AIRCRAFT RECORD WHEN ALTERATIONS HAVE BEEN MADE.

WEIGHT AND BALANCE DATA FORM

Figure 6-5

SECTION 6
WEIGHT AND BALANCE

PIPER AIRCRAFT CORPORATION
PA-28-181, CHEROKEE ARCHER II

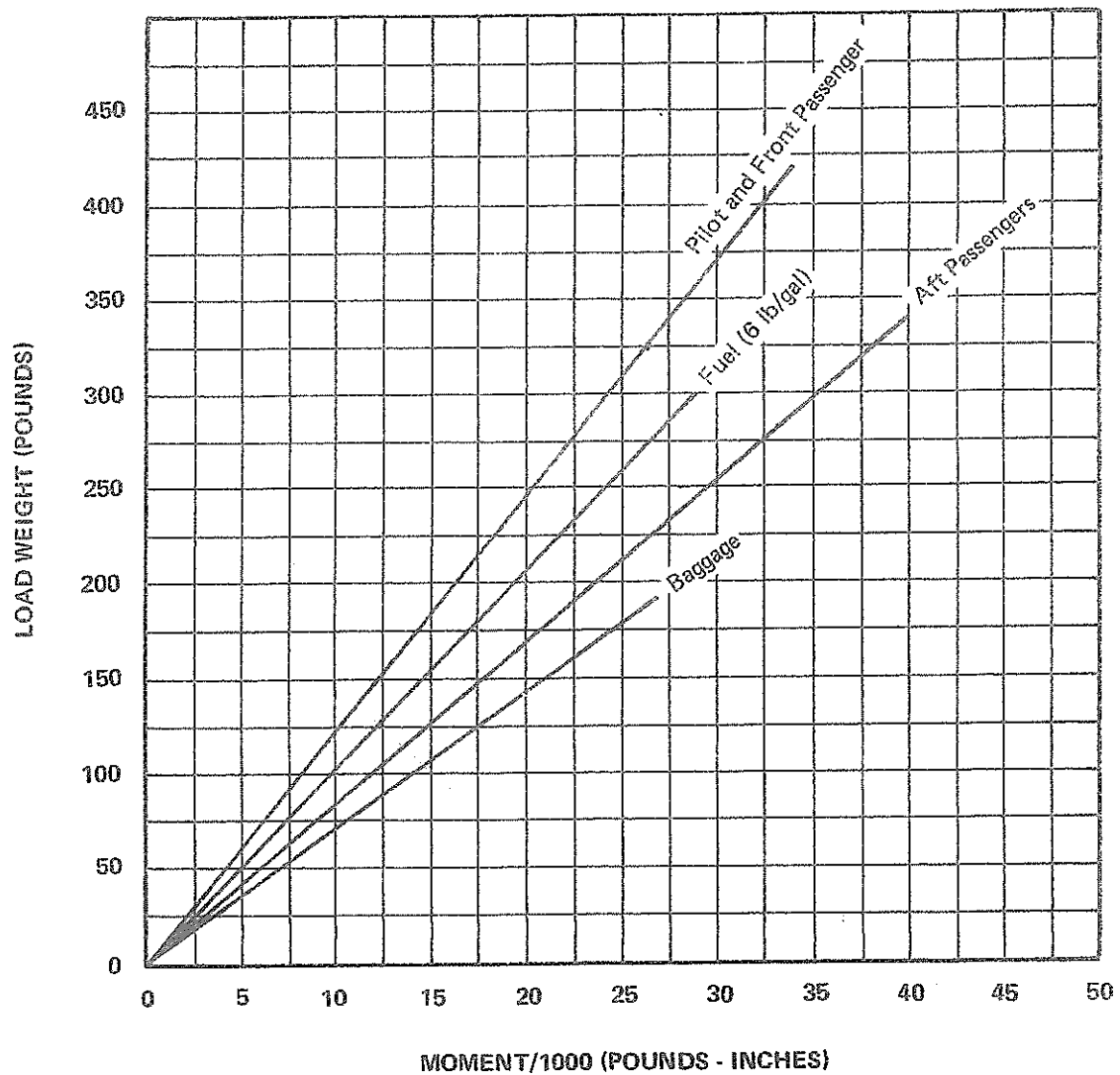
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passengers (Rear Seats)*		118.1	
Fuel (48 Gallon Maximum)		95.0	
Baggage*		142.8	
Total Loaded Airplane			

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 rear passengers allowed.

WEIGHT AND BALANCE LOADING FORM

Figure 6-11

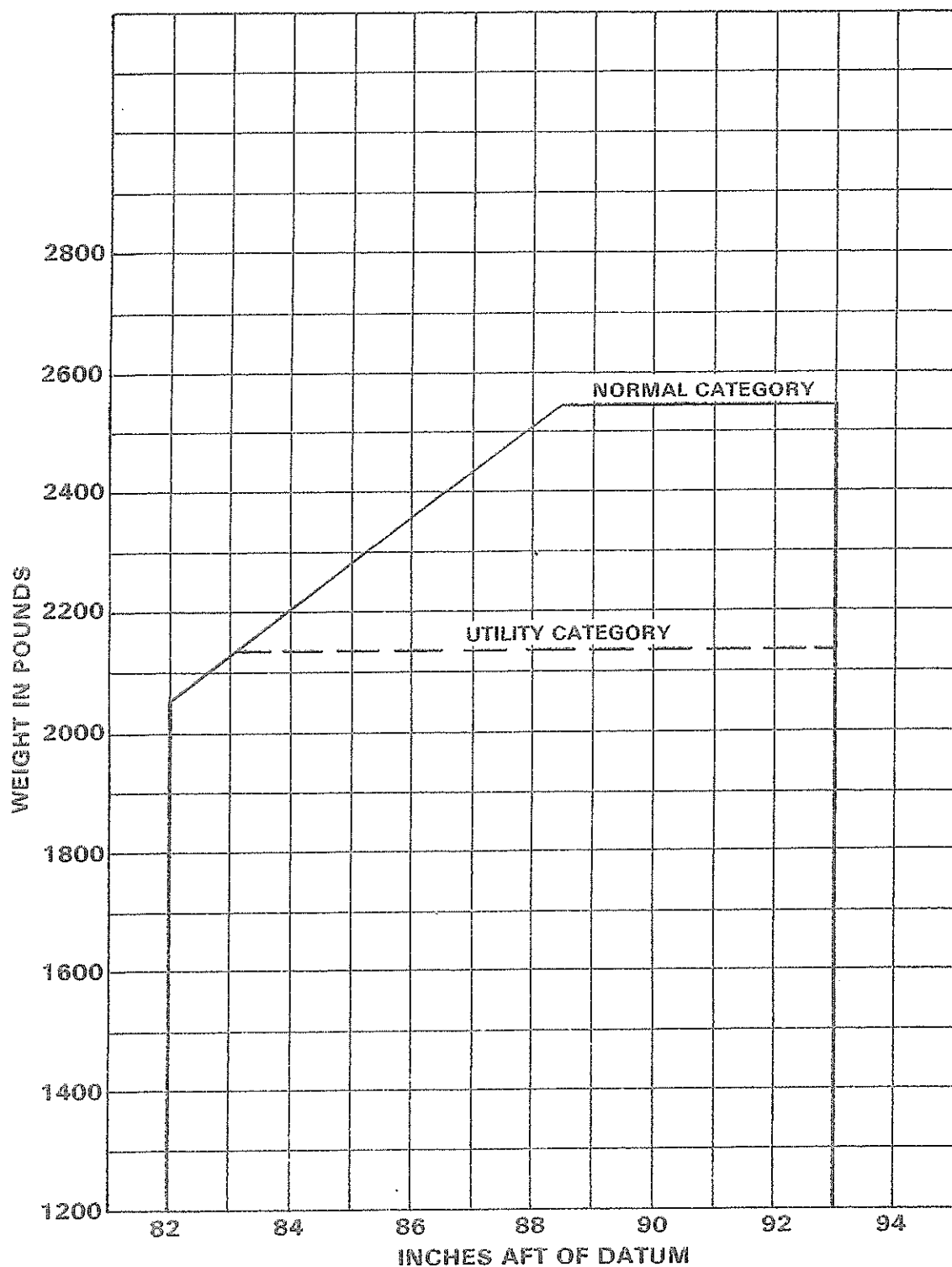


LOADING GRAPH

Figure 6-13

SECTION 6
WEIGHT AND BALANCE

PIPER AIRCRAFT CORPORATION
PA-28-181, CHEROKEE ARCHER II



C. G. RANGE AND WEIGHT

Figure 6-15

PA-28-181

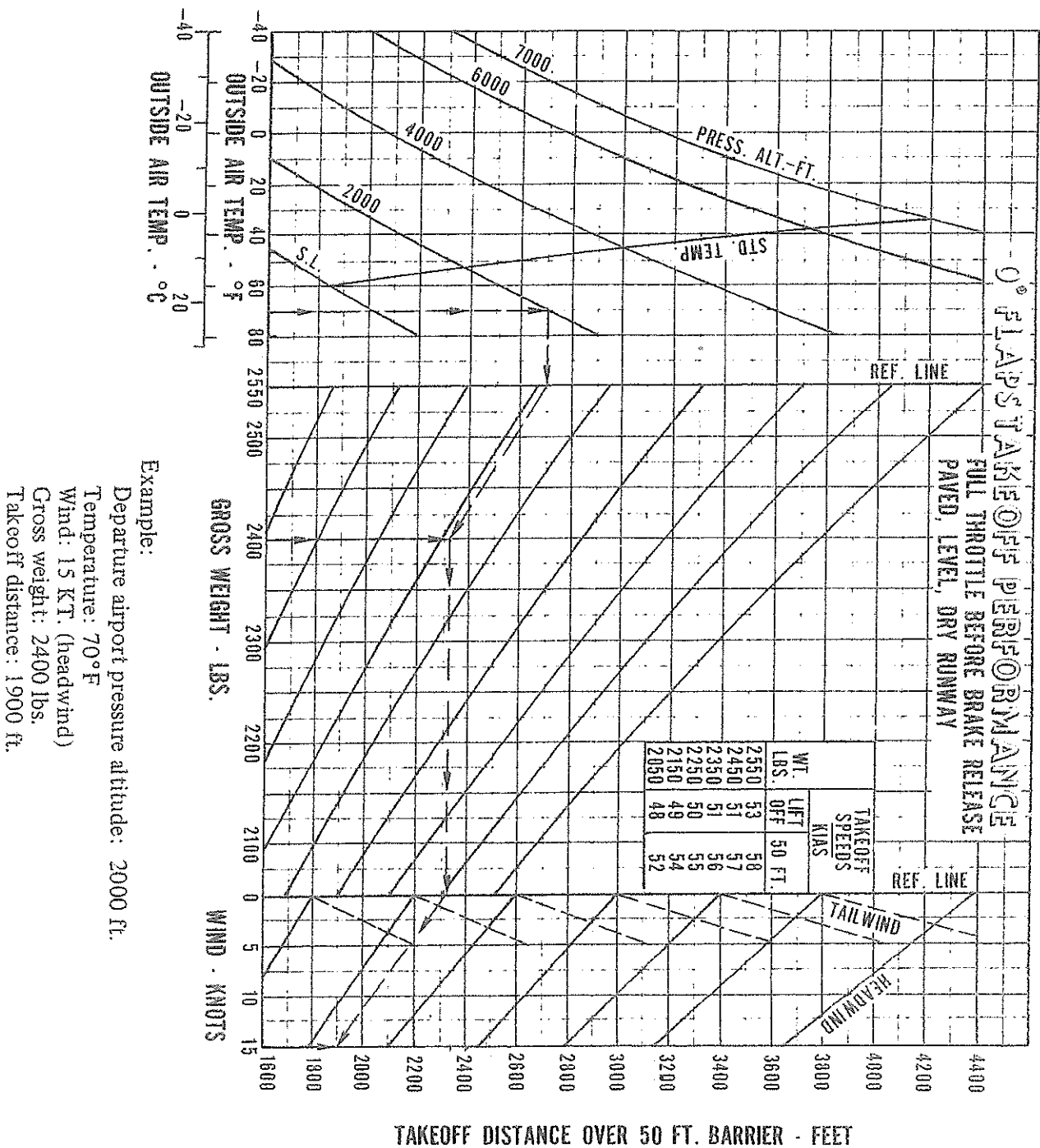
PIPER AIRCRAFT CORPORATION
PA-28-181, CHEROKEE ARCHER II

SECTION 5
PERFORMANCE

ISSUED: JUNE 18, 1976

REPORT: VB-790
5-13

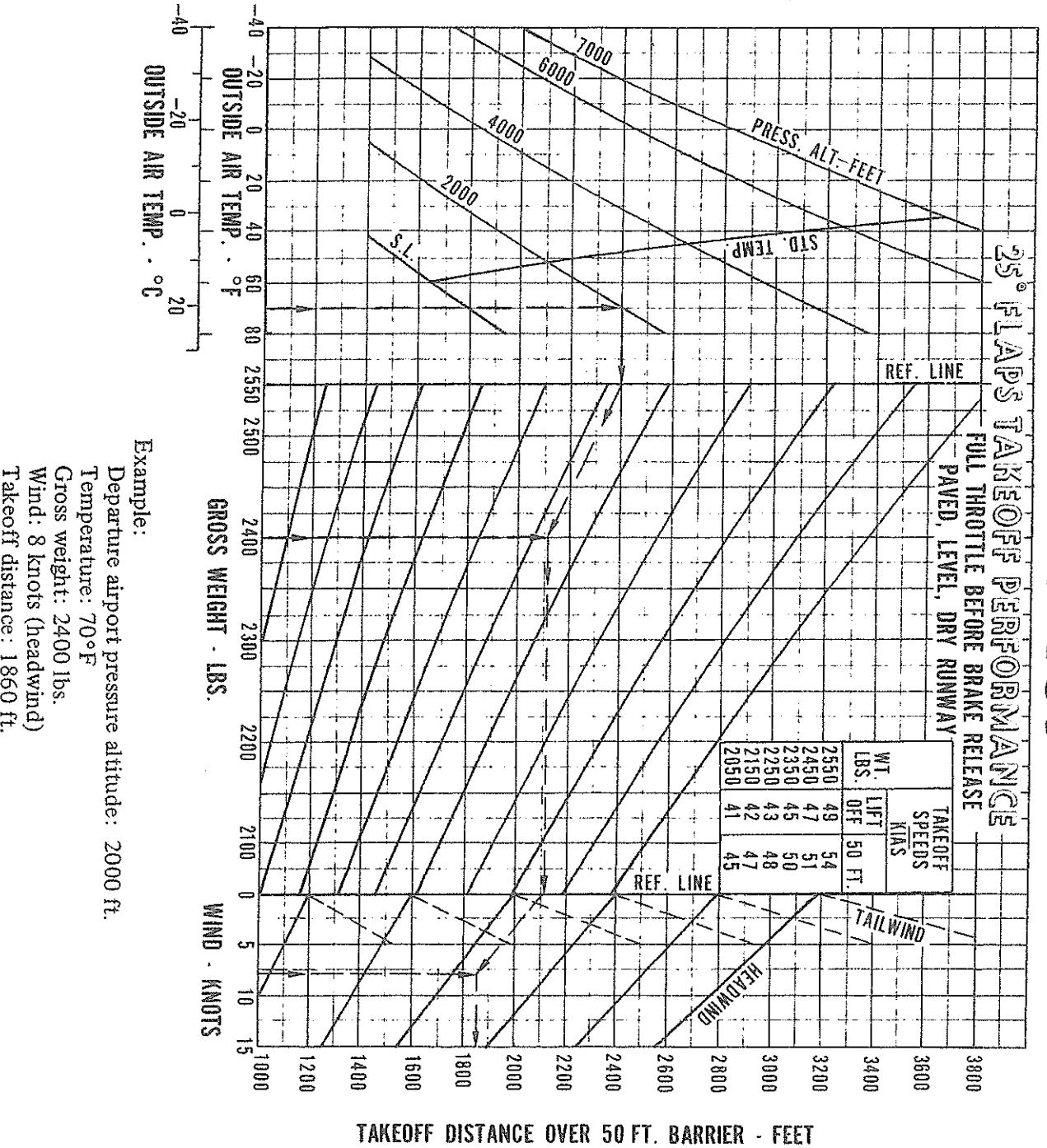
FLAPS UP TAKEOFF PERFORMANCE
Figure 5-5



PA-28-181

25° FLAPS TAKEOFF PERFORMANCE

Figure 5-7



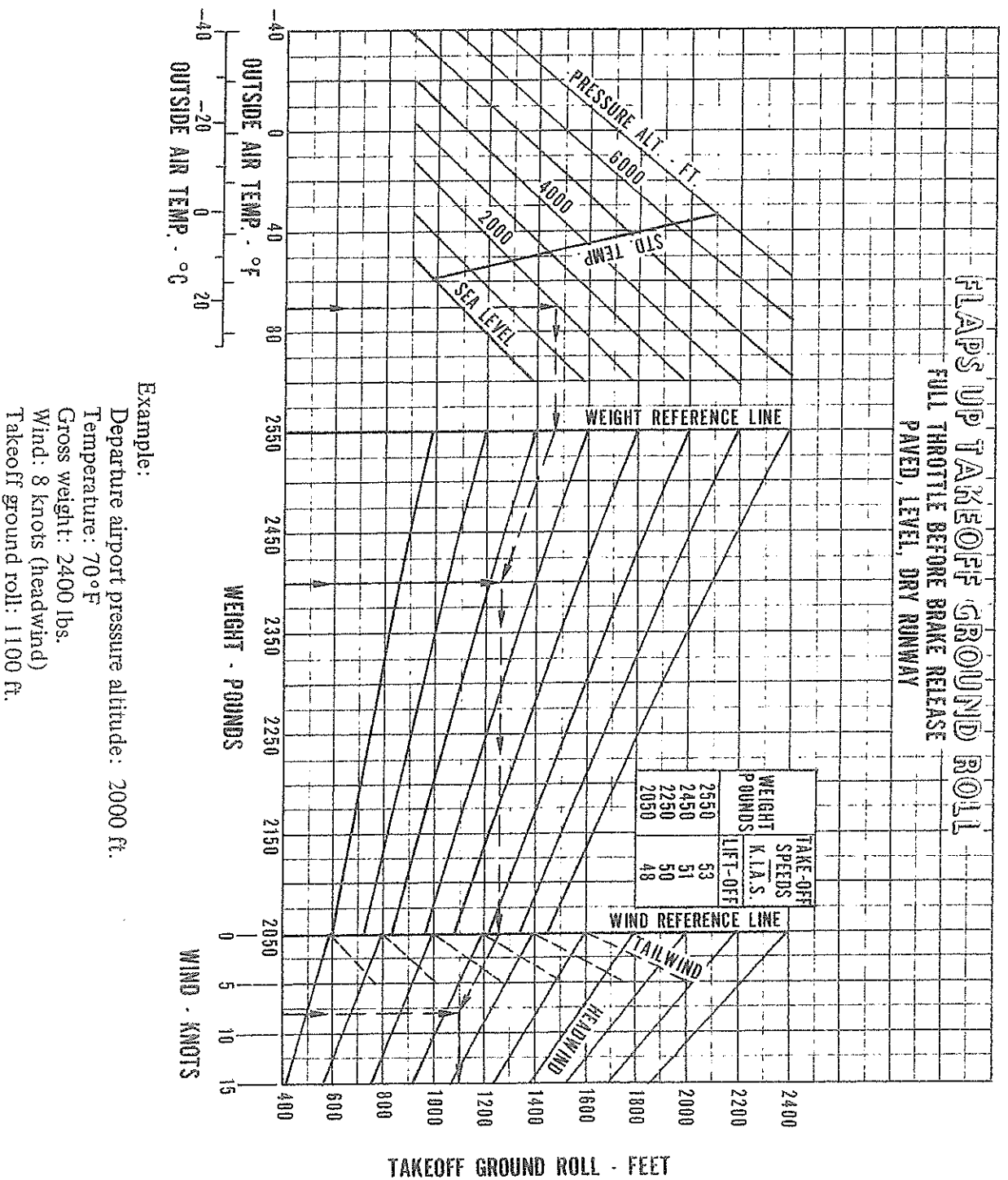
PA-28-181

ISSUED: JUNE 18, 1976

REPORT: VB-790
5-15

FLAPS UP TAKEOFF GROUND ROLL

Figure 5-9

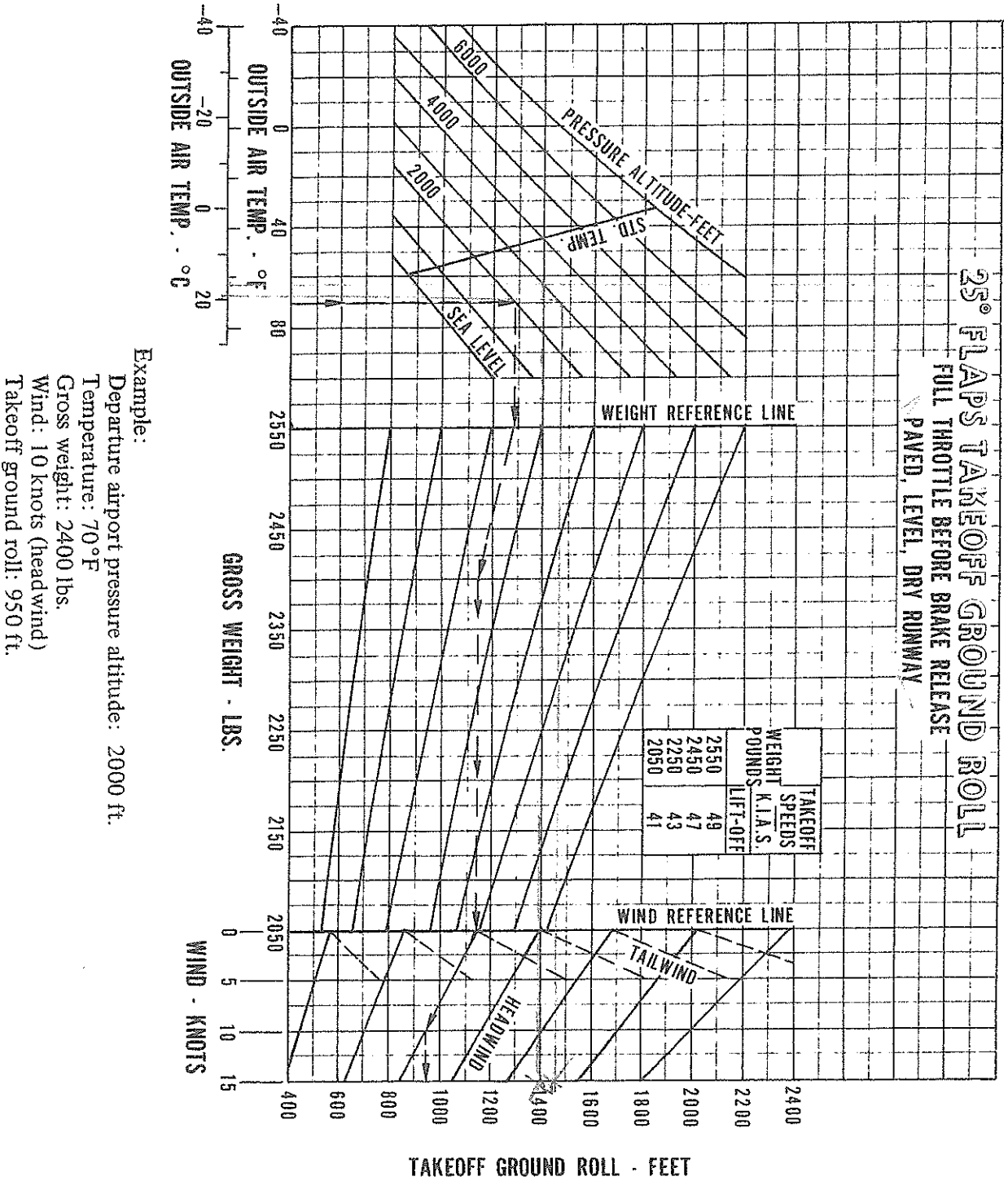


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REPORT: VB-790
S-16

ISSUED: JUNE 18, 1976

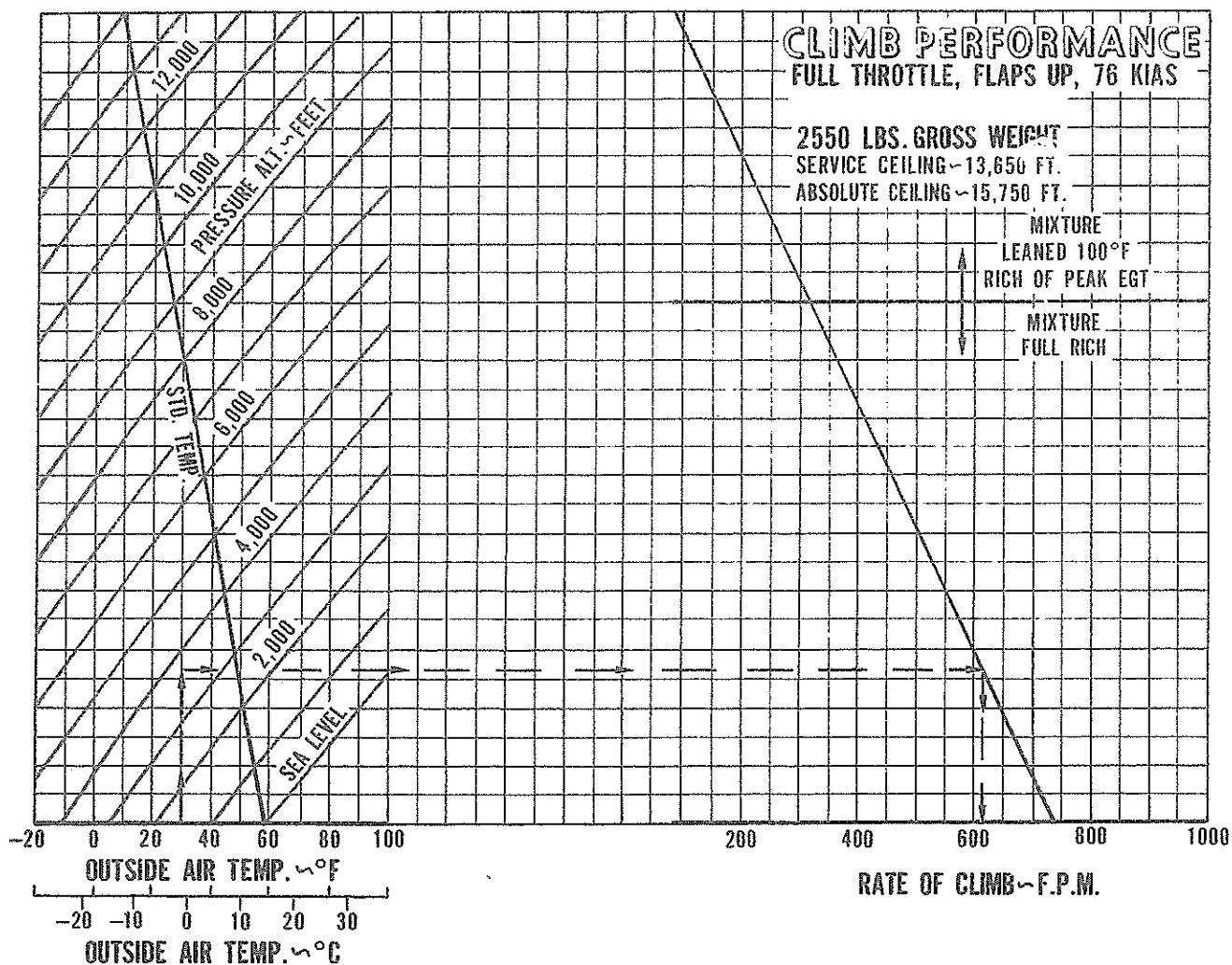
25° FLAPS TAKEOFF GROUND ROLL
Figure 5-11



SECTION 5
PERFORMANCE

PIPER AIRCRAFT CORPORATION
PA-28-181, CHEROKEE ARCHER II

PA-28-181



Example:

Climb pressure altitude: 3600 ft.

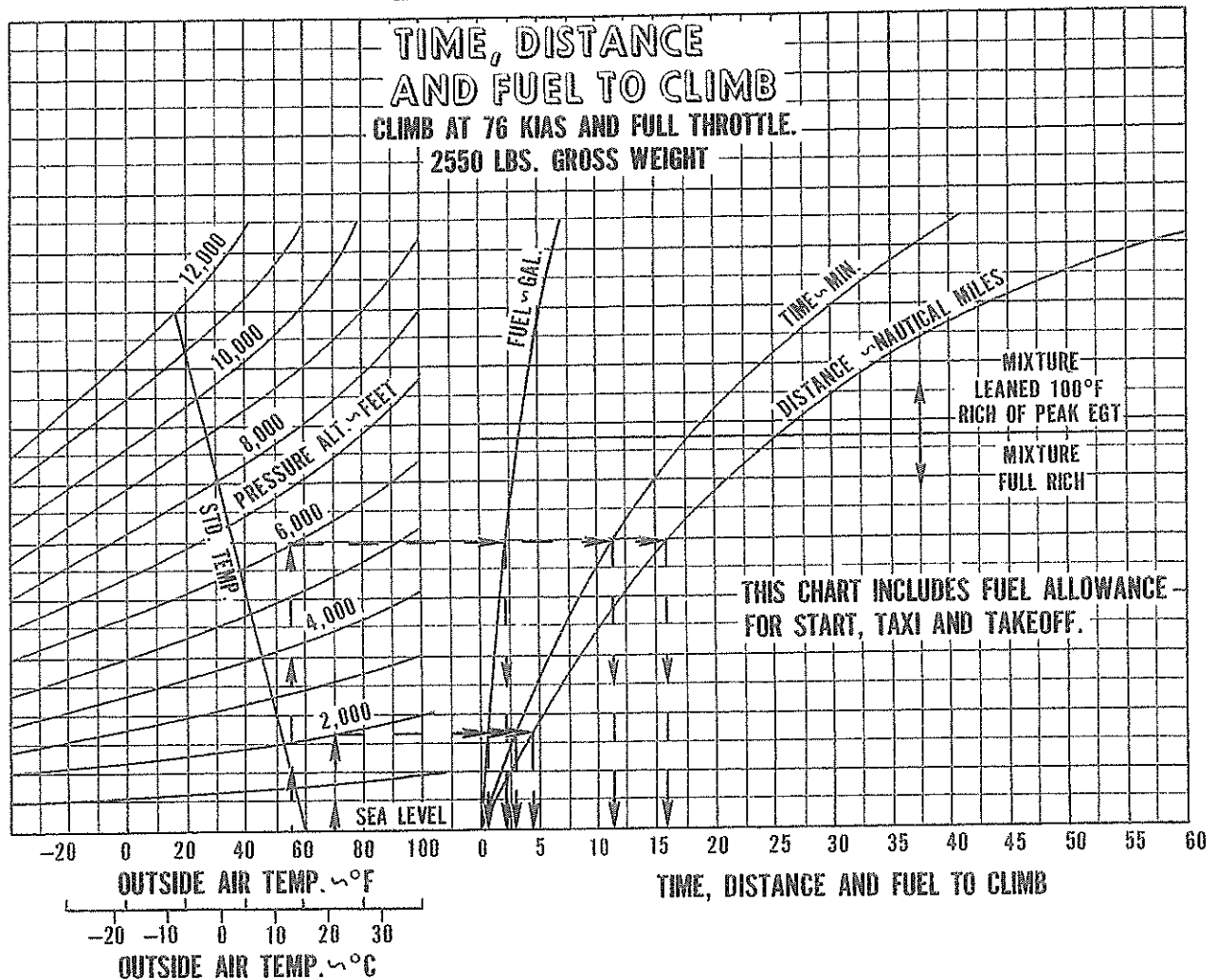
OAT: 30°F

Rate of climb: 620 F.P.M.

CLIMB PERFORMANCE

Figure 5-13

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Example:

Departure airport pressure altitude: 2000 ft.
Departure airport temperature: 70°F
Cruise pressure altitude: 6000 ft.
Cruise OAT: 55°F
Time to climb: 11.5 min. minus 3 min. = 8.5 min.
Distance to climb: 16 miles minus 4.5 miles = 11.5 nautical miles
Fuel to climb: 2 gal. minus 1 gal. = 1 gal.

TIME, DISTANCE AND FUEL TO CLIMB

Figure 5-15

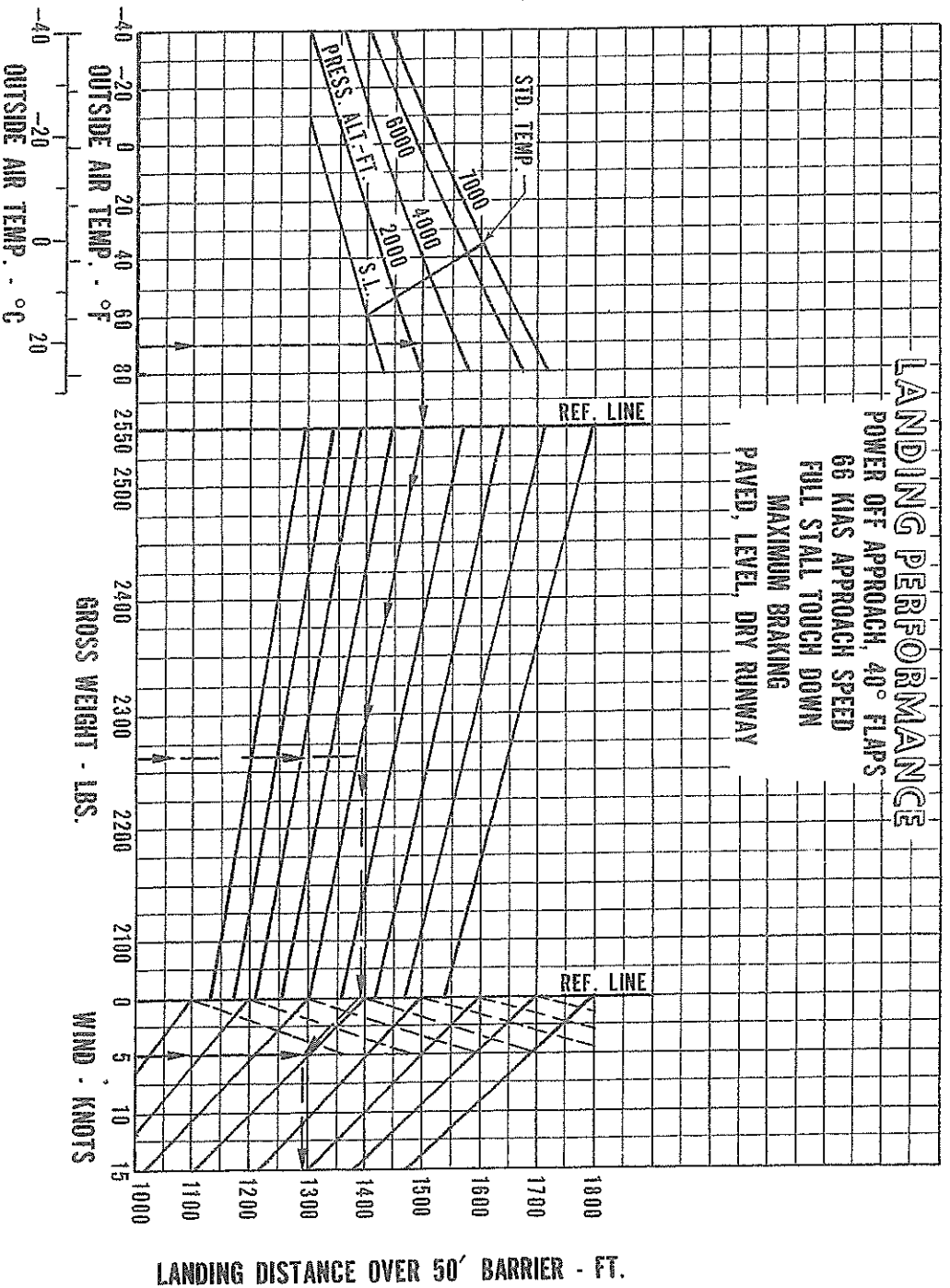
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SECTION 5

PERFORMANCE

LANDING PERFORMANCE

POWER OFF APPROACH, 40° FLAPS
66 KIAS APPROACH SPEED
FULL STALL TOUCH DOWN
MAXIMUM BRAKING
PAVED, LEVEL, DRY RUNWAY



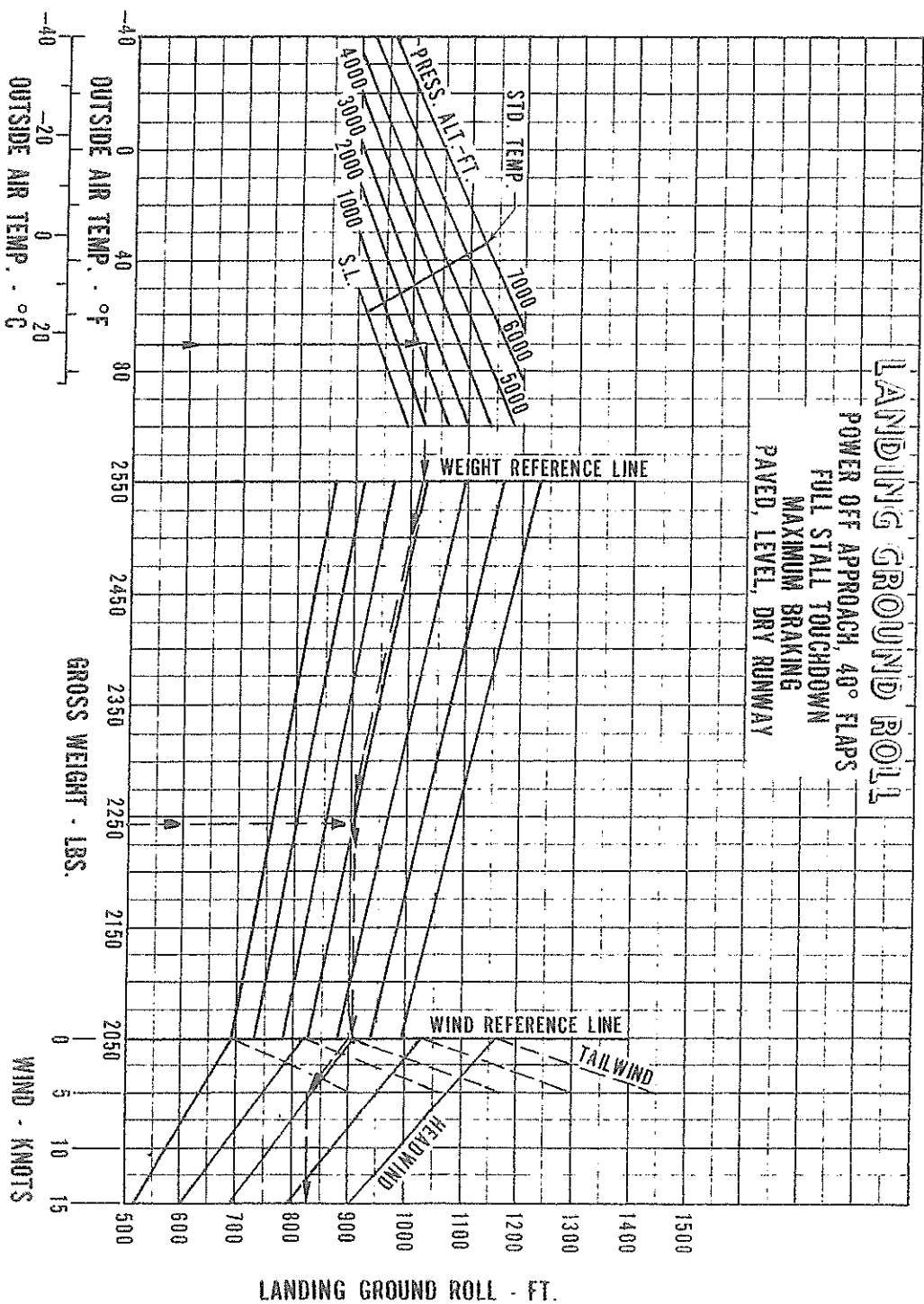
LANDING PERFORMANCE

Figure 5-33

PA-28-181

LANDING GROUND ROLL

POWER OFF APPROACH, 40° FLAPS
FULL STALL TOUCHDOWN
MAXIMUM BRAKING
PAVED, LEVEL, DRY RUNWAY



Example:

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

LANDING GROUND ROLL

Figure 5-35

ISSUED: JULY 12, 1977

REPORT: VB-790
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