

PIPER AIRCRAFT CORPORATION
PA-28-151, CHEROKEE WARRIOR

SECTION
WEIGHT AND BALANCE

MODEL PA-28-151 CHEROKEE WARRIOR

Airplane Serial Number 28-7715167

Registration Number VH-RXW

Date 29-1-05

AIRPLANE BASIC EMPTY WEIGHT

Item		Weight	x	C.G. Arm (Inches Aft of Datum)	=	Moment
		(Lbs) <i>KG</i>				(In-Lbs) <i>KG-MM</i> <i>1000</i>
Standard Empty Weight*	Actual Computed	650.7		2203		1433.2
Optional Equipment						
Basic Empty Weight		657.5		2187		1438

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

AIRPLANE USEFUL LOAD - NORMAL CATEGORY OPERATION

(Gross Weight) - (Basic Empty Weight) = Useful Load

Normal Category: (2325 lbs) - (lbs) = lbs.

Utility Category: (1950 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
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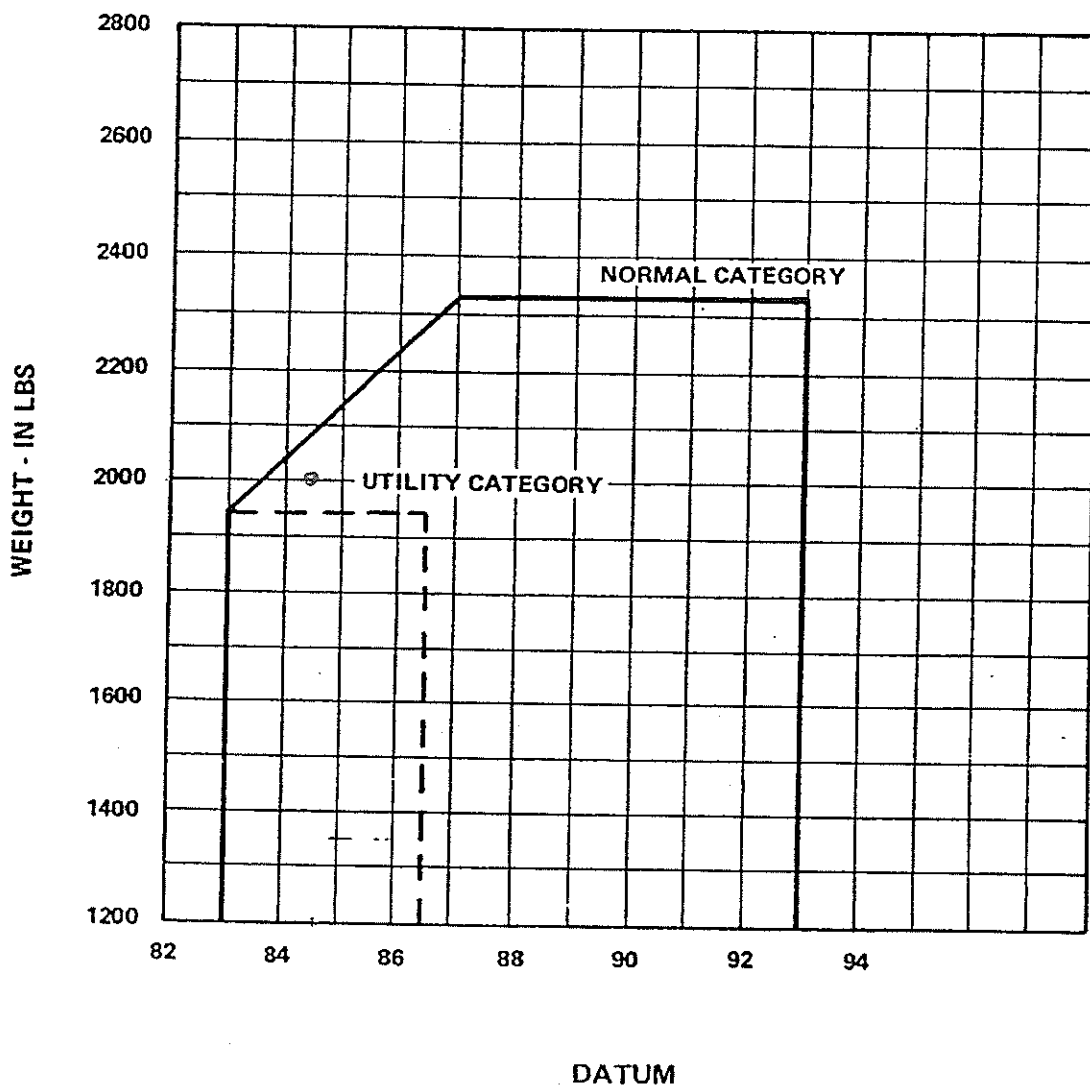
	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Empty Weight			
Pilot and Front Passenger		80.5	
Passenger (Rear Seats)*		118.1	
Fuel (48 Gallon Maximum)		95.0	
Baggage*		142.8	
Total Loaded Airplane			

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.

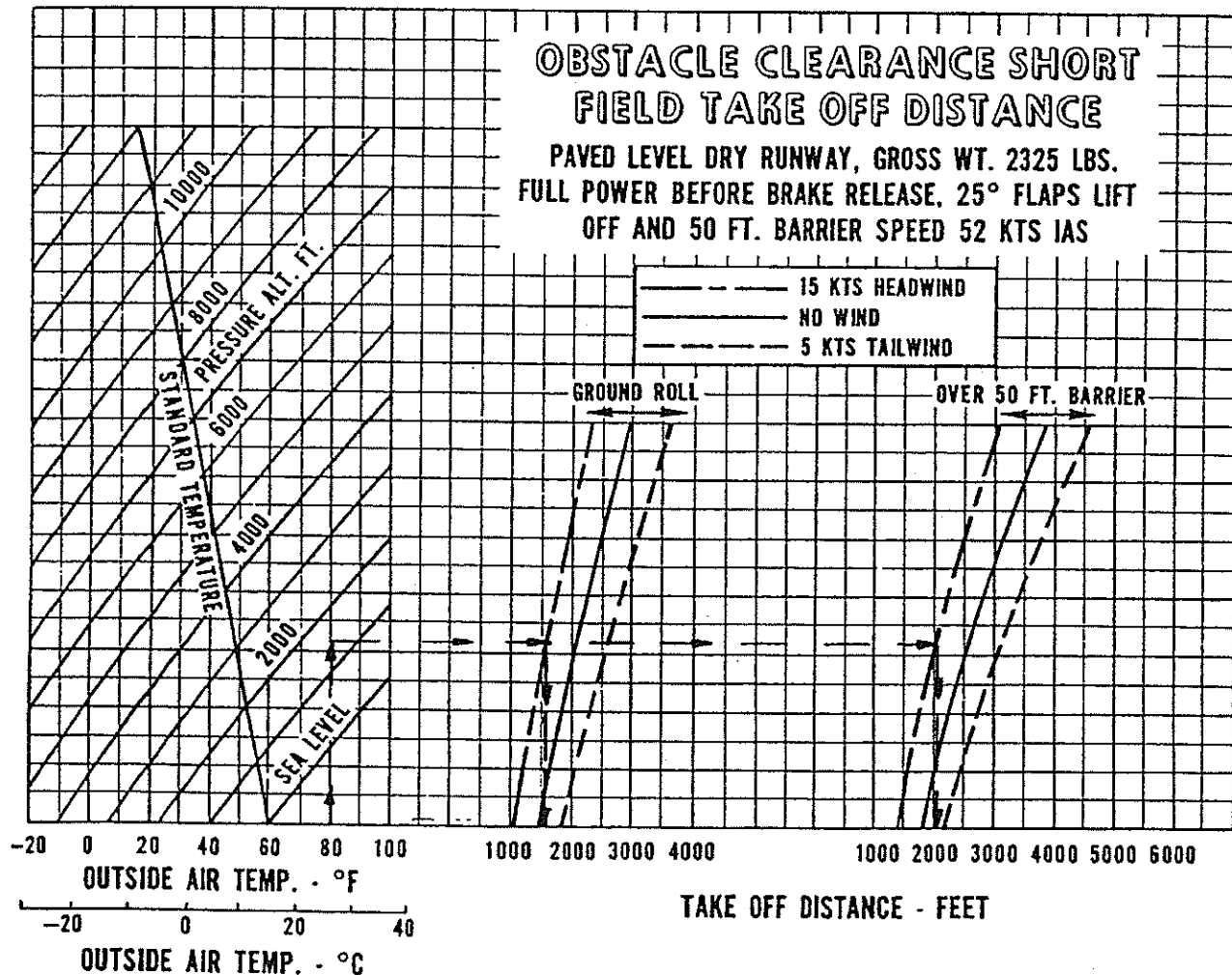
WEIGHT AND BALANCE LOADING FORM

Figure 6-11



C. G. RANGE AND WEIGHT
Figure 6-15

PA-28-151



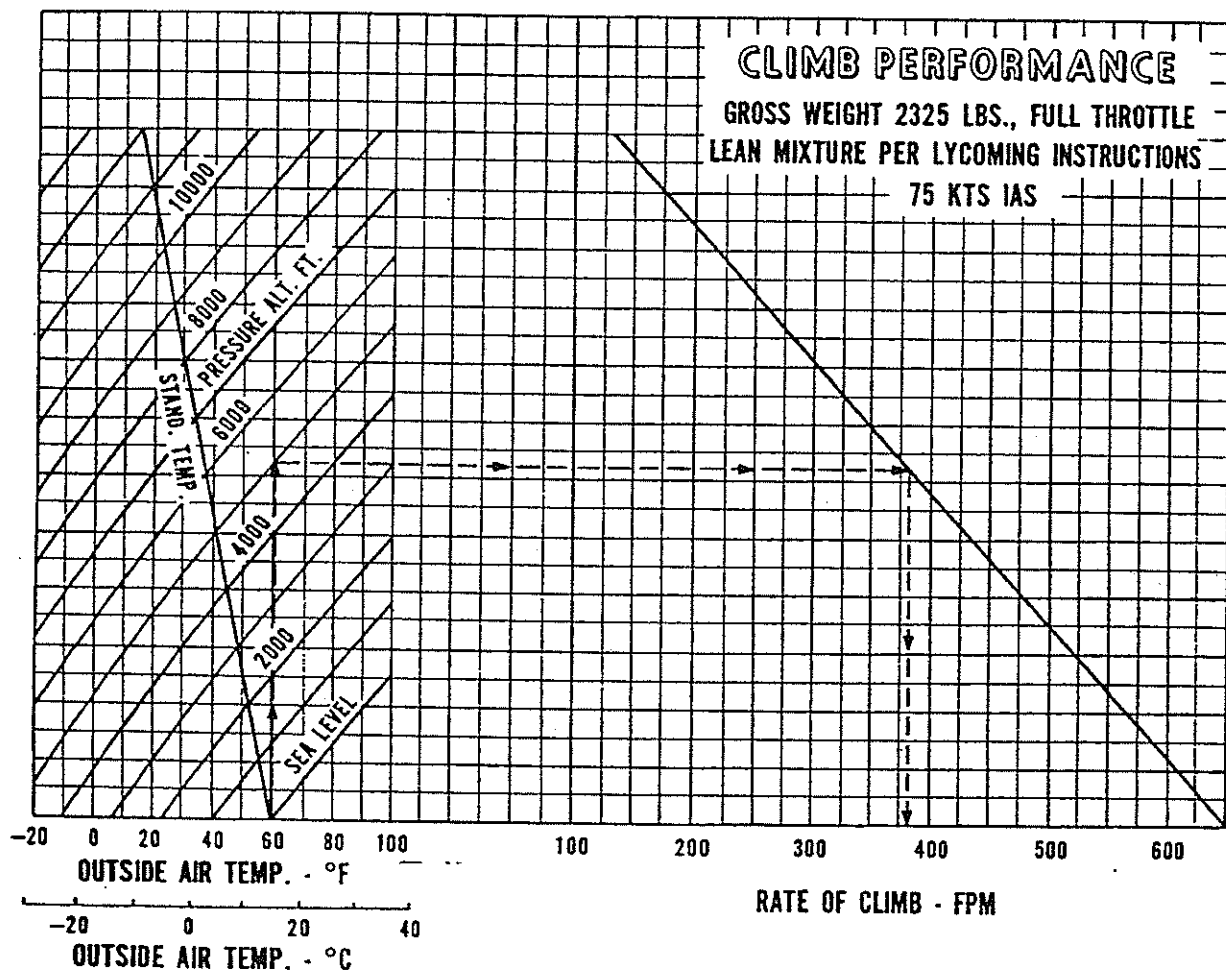
Example:

Departure airport pressure altitude: 1500 ft.
Departure airport temperature: 80°F
Wind: 15 KTS headwind
Ground roll: 1600 ft.
Distance over 50 ft. barrier: 2100 ft.

OBSTACLE CLEARANCE SHORT FIELD TAKEOFF DISTANCE

Figure 5-7

PA-28-151



Example:

Climb pressure altitude: 5000 ft.

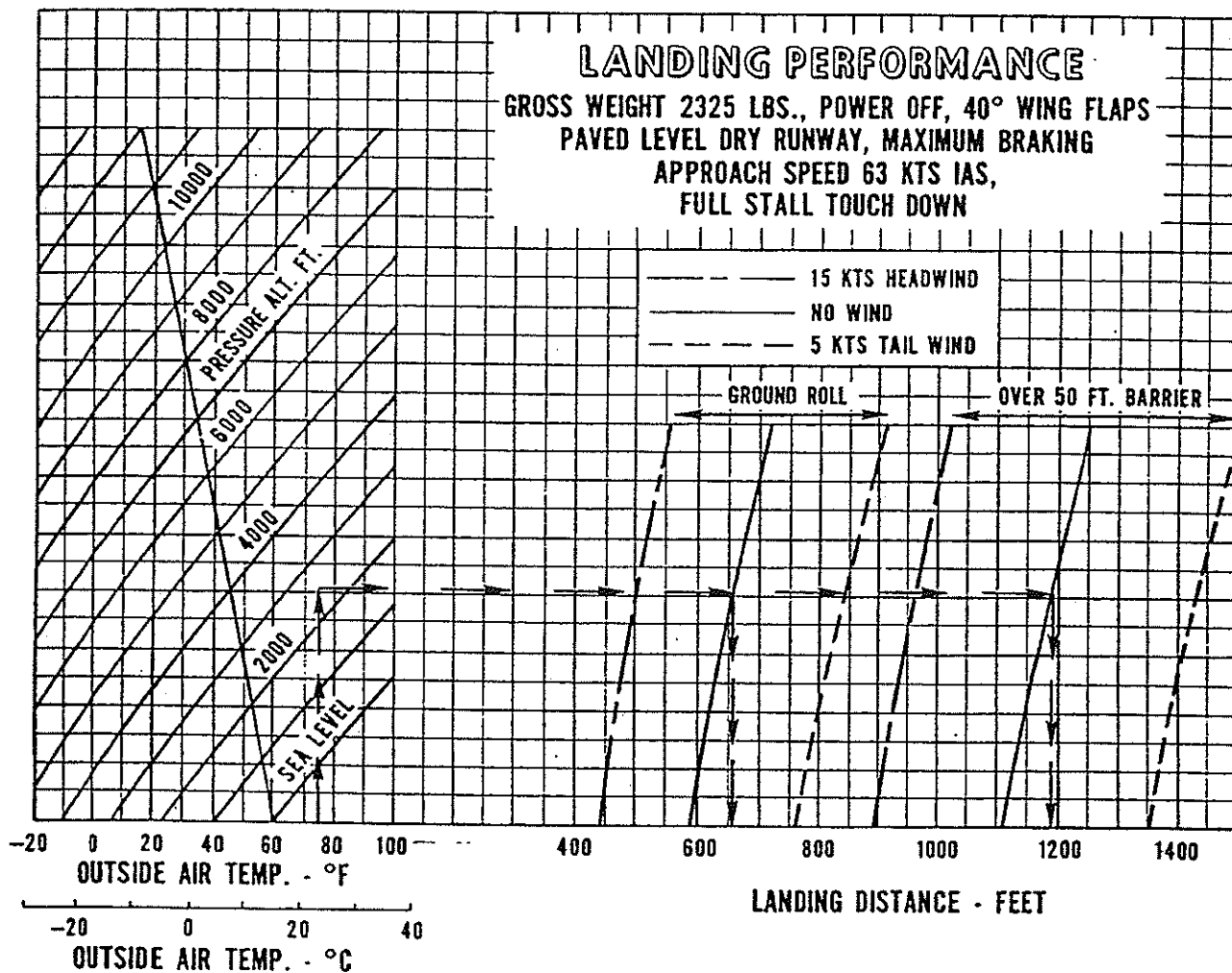
Climb OAT: 60°F

Rate of climb: 380 ft./min.

CLIMB PERFORMANCE

Figure 5-11

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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

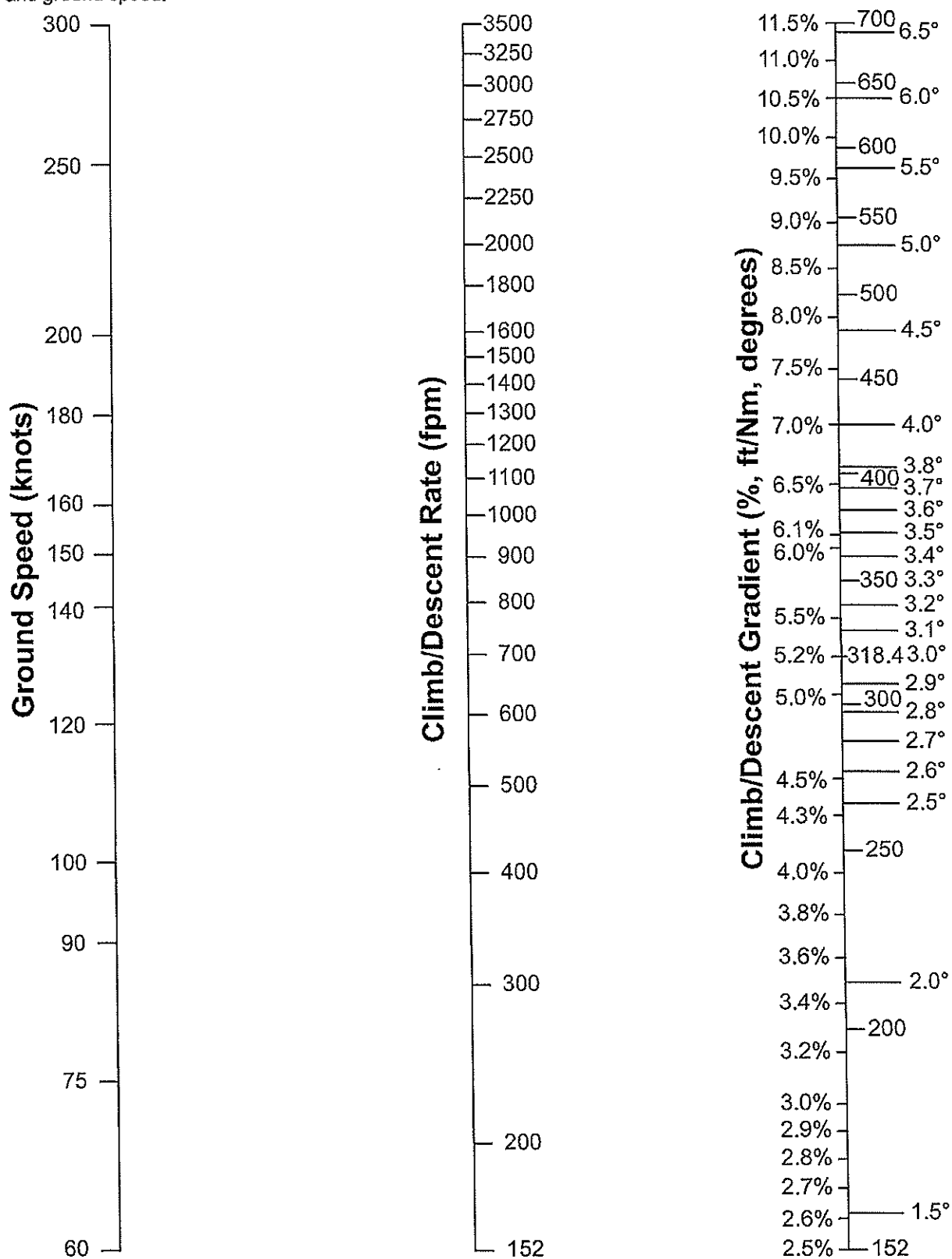
Figure 5-27

GRADIENT RATE NOMOGRAPH

8 MAR 2012

DAP 2-1

The nomograph below gives the Climb/Descent rate for entering arguments of gradient (%, ft/nm, Degrees) and ground speed.



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