

PA-28-161

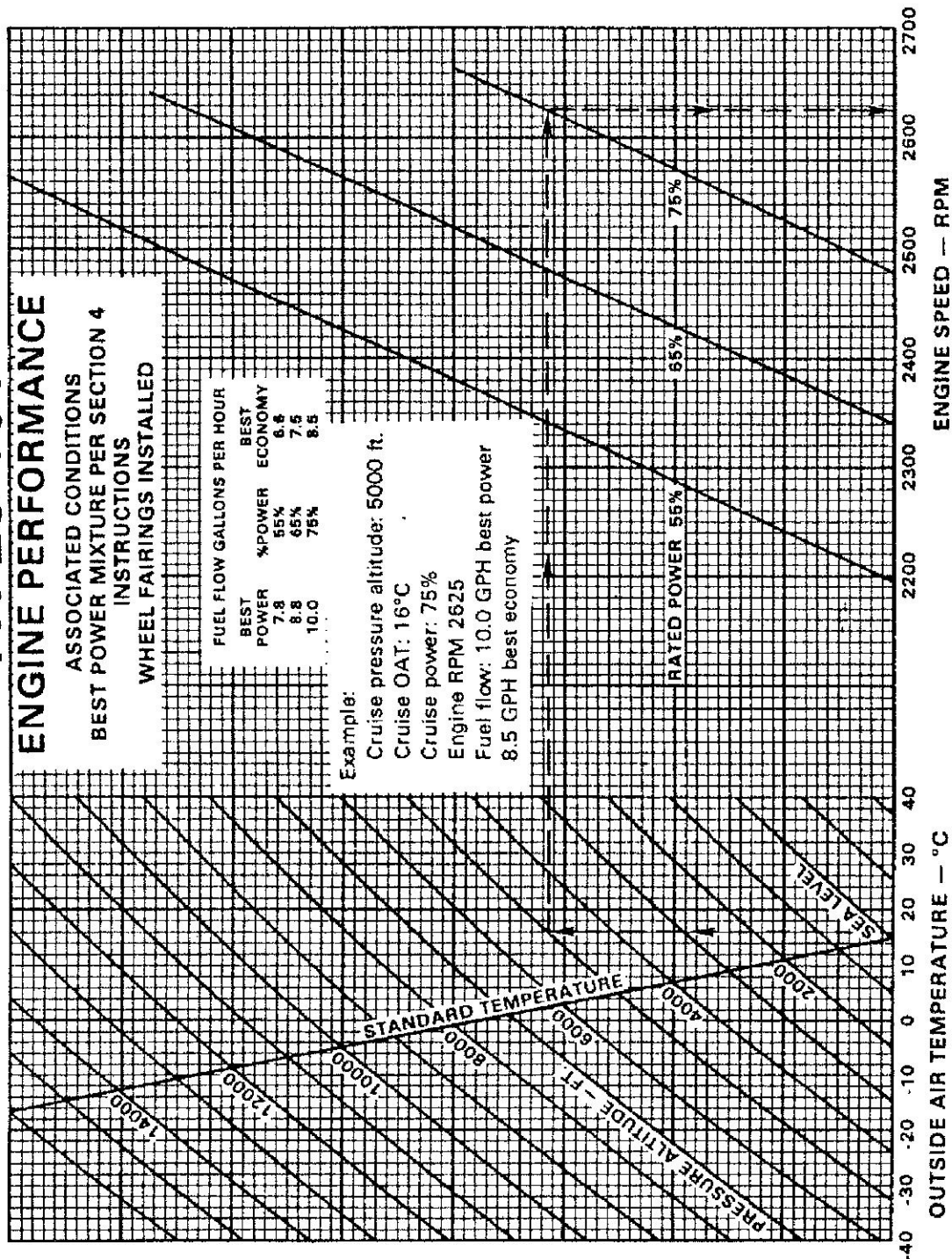
ENGINE PERFORMANCE

ASSOCIATED CONDITIONS
BEST POWER MIXTURE PER SECTION 4
INSTRUCTIONS
WHEEL FAIRINGS INSTALLED

FUEL FLOW GALLONS PER HOUR			
BEST POWER	%POWER	BEST ECONOMY	
7.8	55%	6.8	
8.8	65%	7.5	
10.0	75%	8.5	

Example:

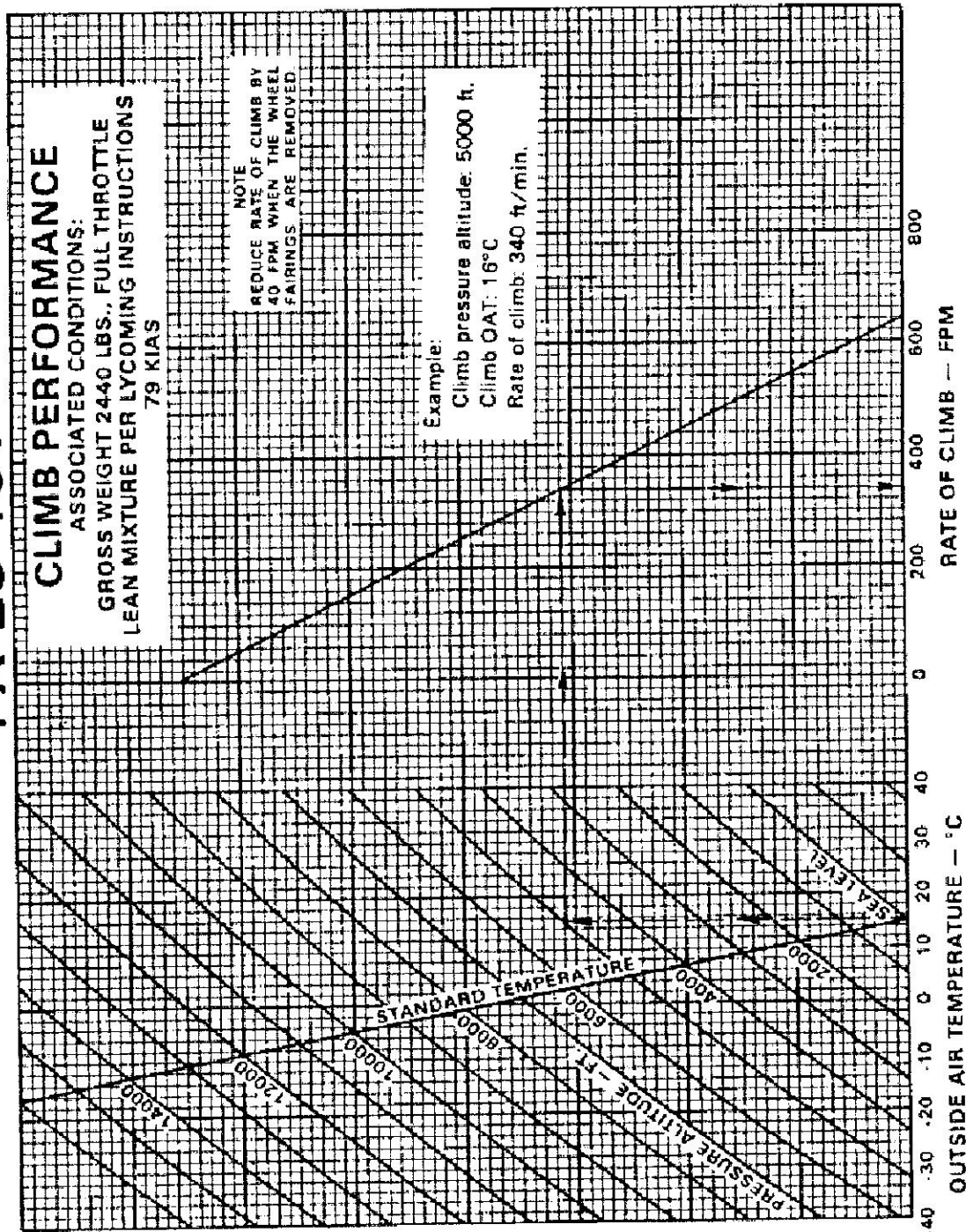
Cruise pressure altitude: 5000 ft.
Cruise OAT: 16°C
Cruise power: 75%
Engine RPM 2625
Fuel flow: 10.0 GPH best power
8.5 GPH best economy



ENGINE PERFORMANCE

Figure 5-15

PA-28-161



CLIMB PERFORMANCE
Figure 5-17

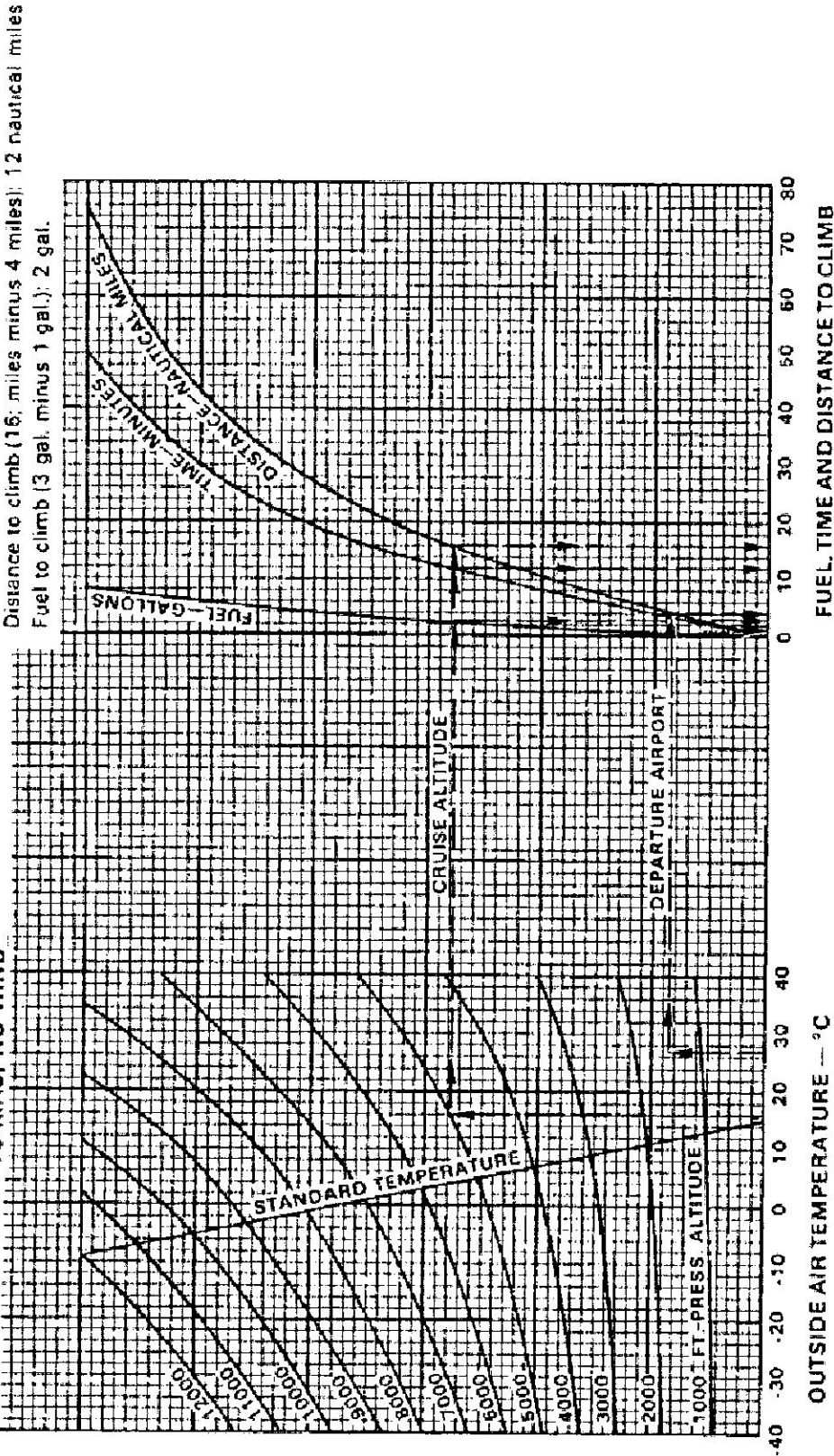
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REPORT: VB-1180
5-19

PA-28-161

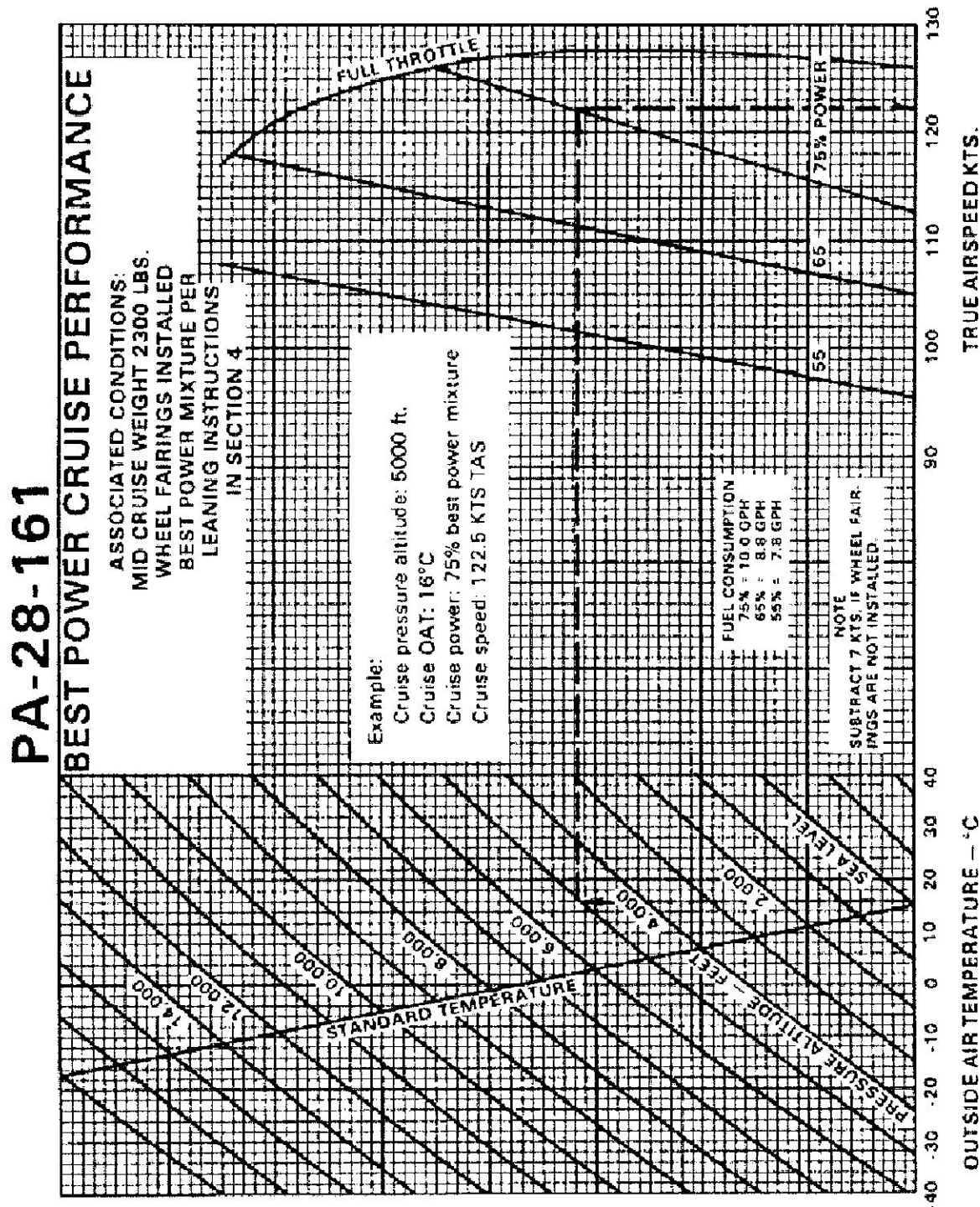
FUEL, TIME AND DISTANCE TO CLIMB

ASSOCIATED CONDITIONS:
WEIGHT 2440 LBS., FLAPS 0°, FULL THROTTLE
MIXTURE — LEANED PER LYCOMING INSTRUCTIONS
79 KIAS, NO WIND



FUEL, TIME AND DISTANCE TO CLIMB

Figure 5-19



BEST POWER CRUISE PERFORMANCE
Figure 5-21

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REPORT: VB-1180
5-21



PA-28-161

BEST POWER MIXTURE RANGE

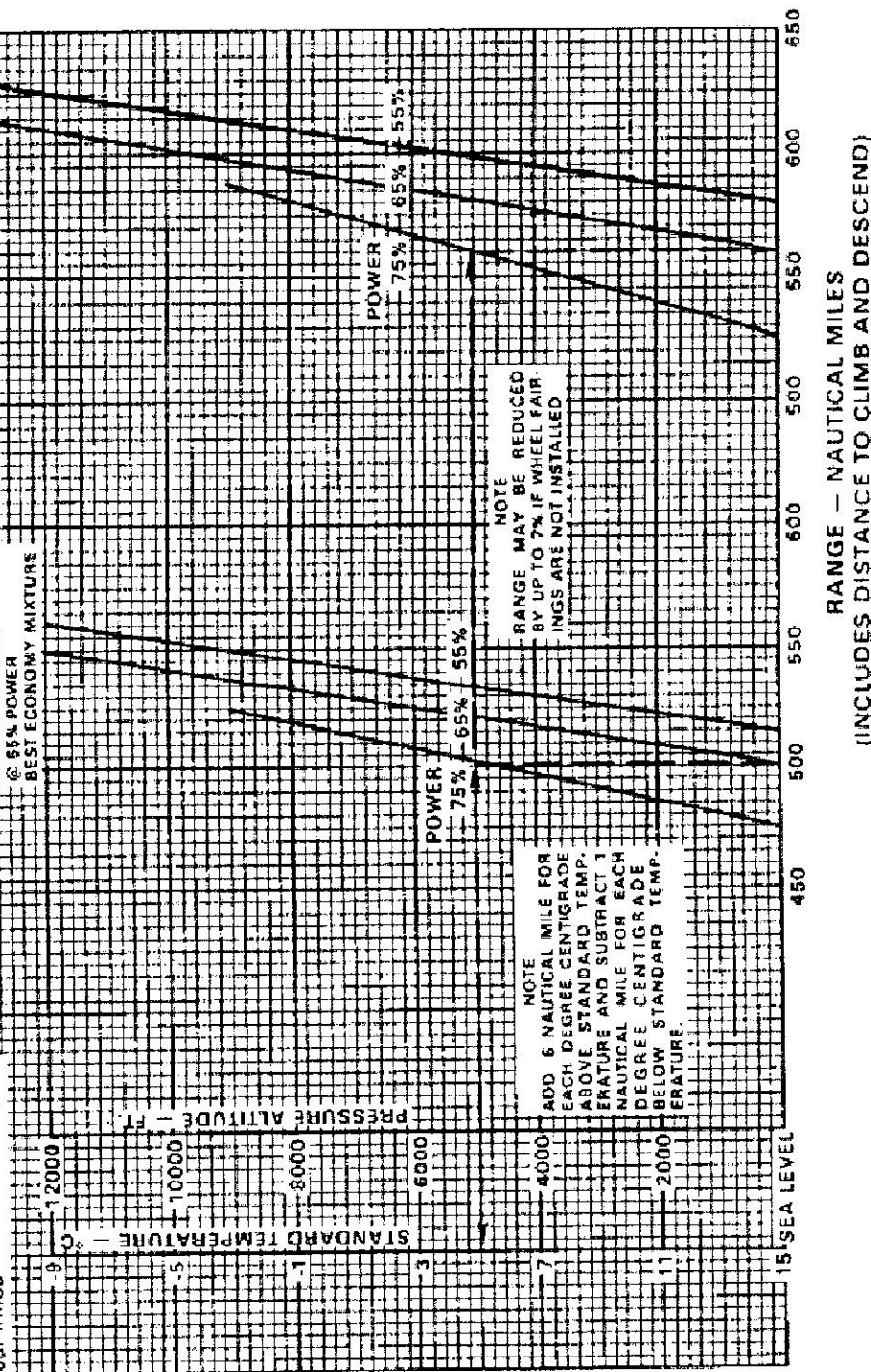
ASSOCIATED CONDITIONS:
MIXTURE LEANED PER SECTION 4
MID CRUISE WEIGHT 2300 LBS., NO WIND
48 GAL. USUABLE FUEL, WHEEL FAIRINGS INSTALLED

45 MIN RESERVE
@ 55% POWER
BEST ECONOMY MIXTURE

567.6 nautical miles

Example:

Cruise pressure altitude: 5000 ft.
Cruise OAT: 16°C (11°C above standard)
Cruise power: 75% best power mixture
Range w/45 min. reserve @ 55% power:
 $501 + (.6 \times 11) = 507.6$ nautical miles
Range w/no reserve: $501 + (.6 \times 11) =$



BEST POWER MIXTURE RANGE

Figure 5-25

PA-28-161

BEST ECONOMY MIXTURE RANGE

ASSOCIATED CONDITIONS:

MIXTURE LEANED PER SECTION 4

MID CRUISE WEIGHT 2300 LBS., NO WIND

48 GAL. USUABLE FUEL, WHEEL FAIRINGS INSTALLED

Example:

Cruise pressure altitude: 5000 ft.

Cruise OAT: 16°C (11°C above standard)

Cruise power: 75% best economy mixture

Range w/45 min. reserve @ 55% power:

$567 + (.7 \times 11) = 574.7$ nautical miles

Range w/no reserve: $635 + (.7 \times 11) =$

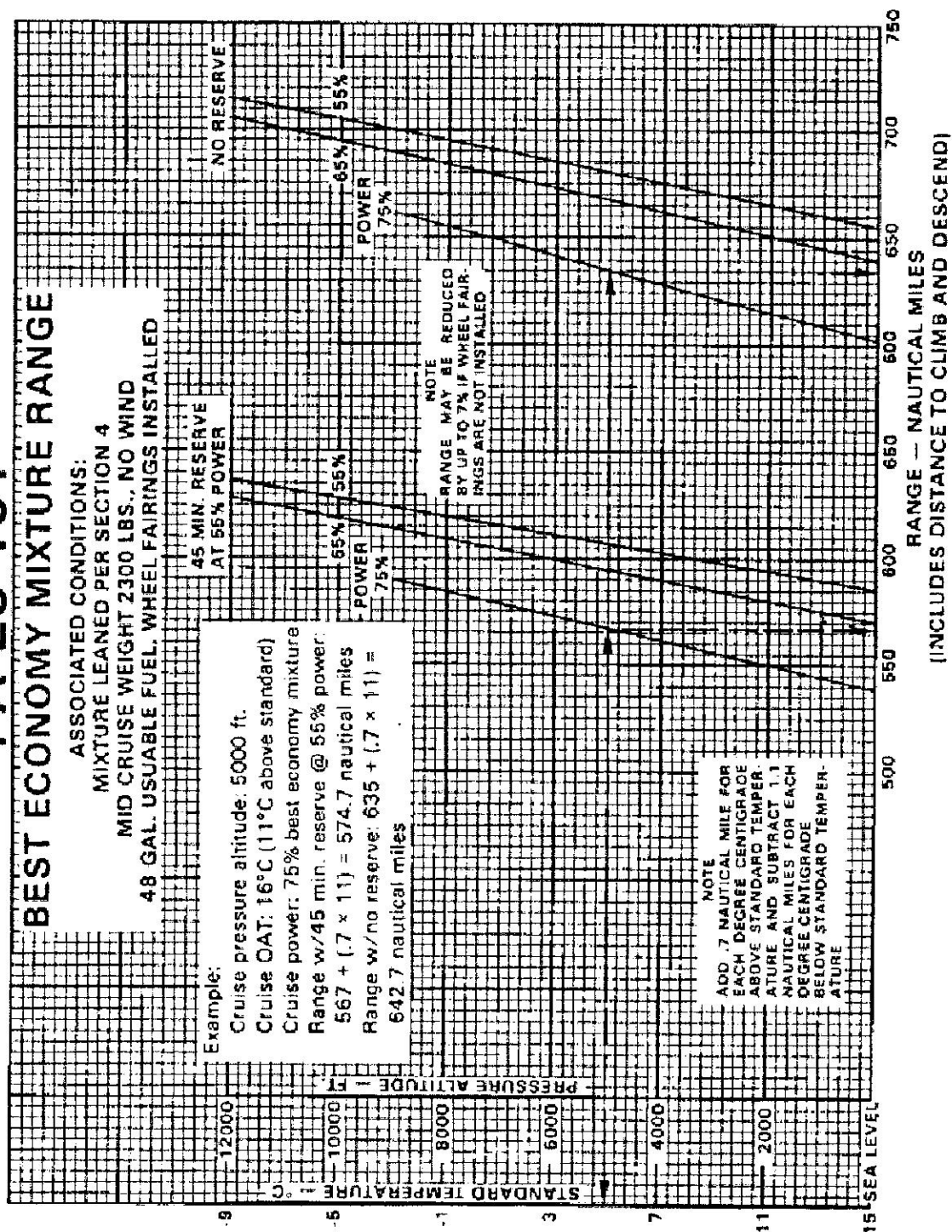
642.7 nautical miles

NOTE

RANGE MAY BE REDUCED
BY UP TO 7% IF WHEEL FAIR-
INGS ARE NOT INSTALLED

NOTE

ADD .7 NAUTICAL MILE FOR
EACH DEGREE CENTIGRADE
ABOVE STANDARD TEMPER-
ATURE AND SUBTRACT 1.1
NAUTICAL MILES FOR EACH
DEGREE CENTIGRADE
BELOW STANDARD TEMPER-
ATURE



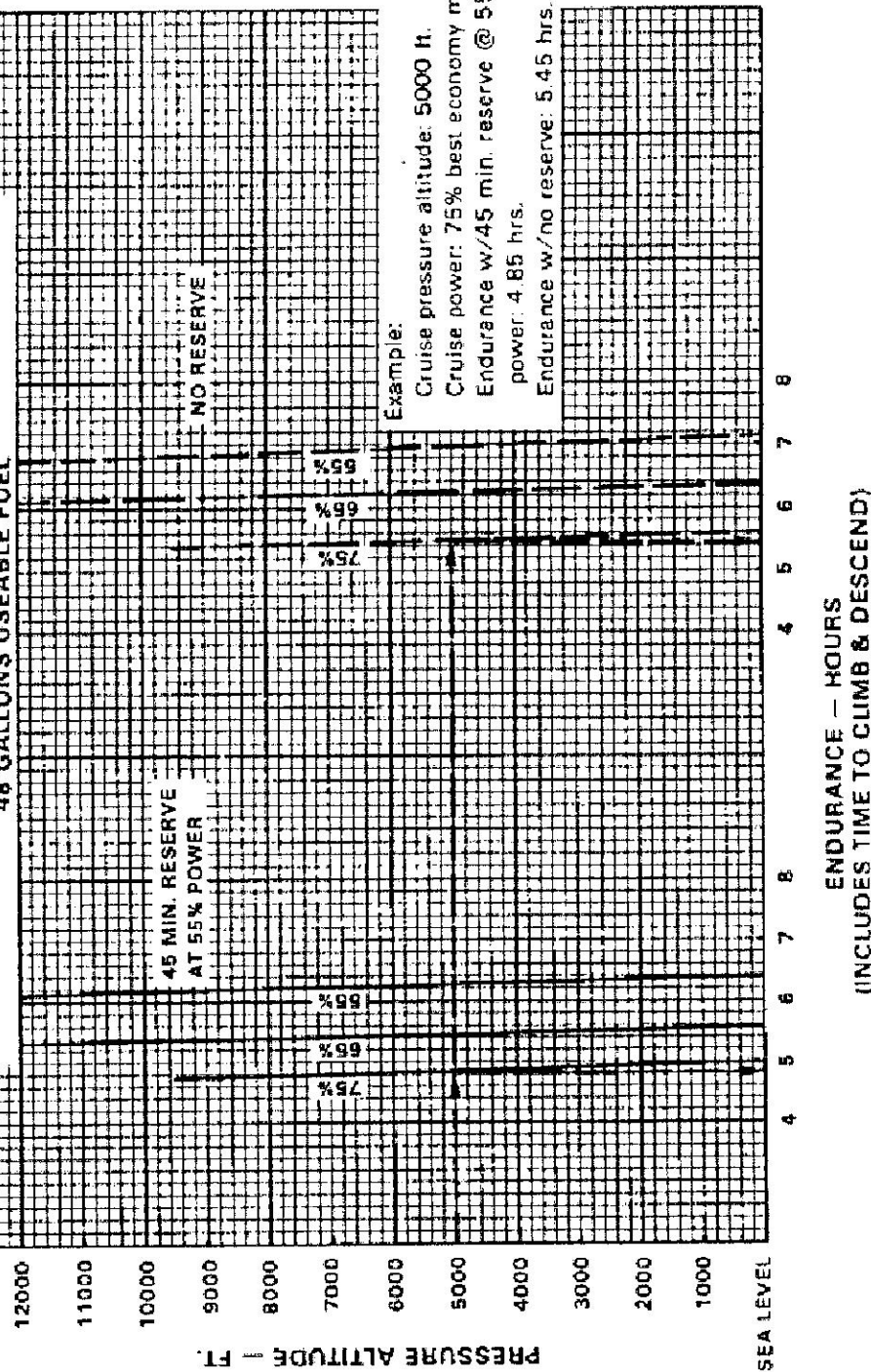
BEST ECONOMY MIXTURE RANGE

Figure 5-27

PA-28-161

ENDURANCE

ASSOCIATED CONDITIONS:
BEST ECONOMY MIXTURE PER LEANING PROCEDURE IN SECTION 4
48 GALLONS USEABLE FUEL

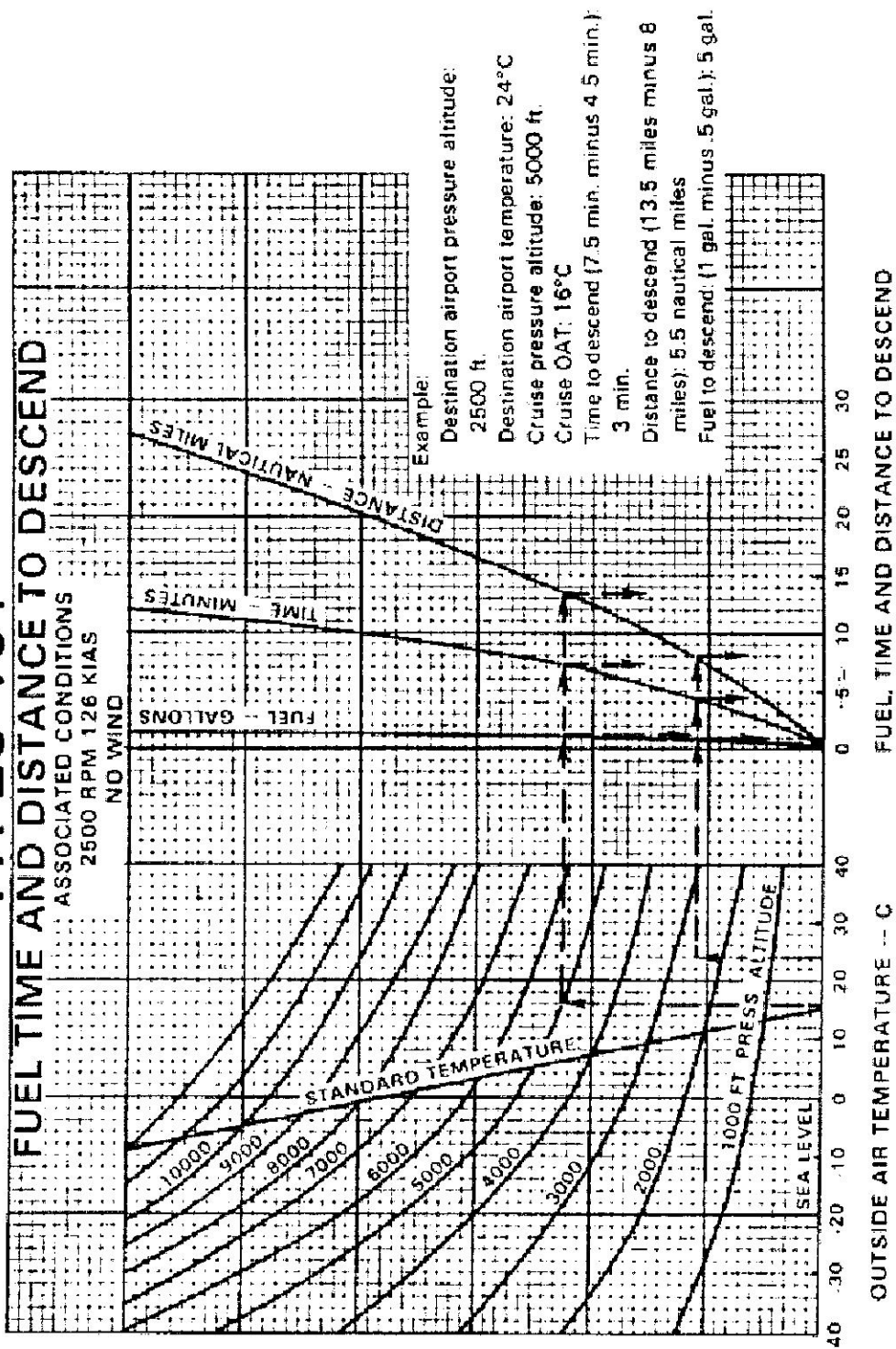


ENDURANCE
Figure 5-29

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5-25

PA-28-161



FUEL, TIME AND DISTANCE TO DESCEND
Figure 5-31