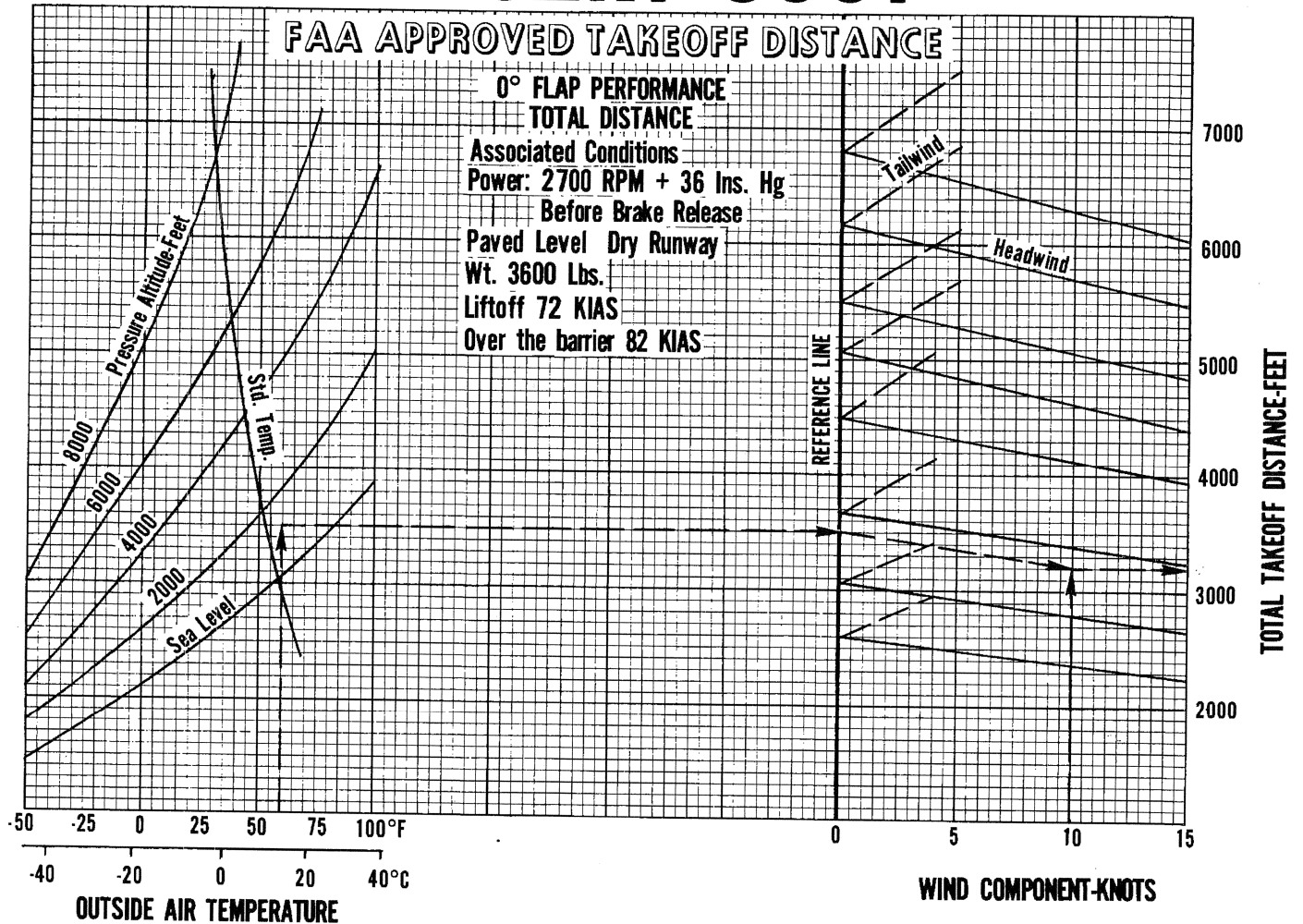


PA-32RT-300T



Example:

- Airport pressure altitude: 1200 ft.
- O.A.T.: 15.6 °C
- Wind component: 10 kts. headwind
- Dist. over 50 ft. barrier: 3200 ft.

FAA APPROVED TAKEOFF DISTANCE

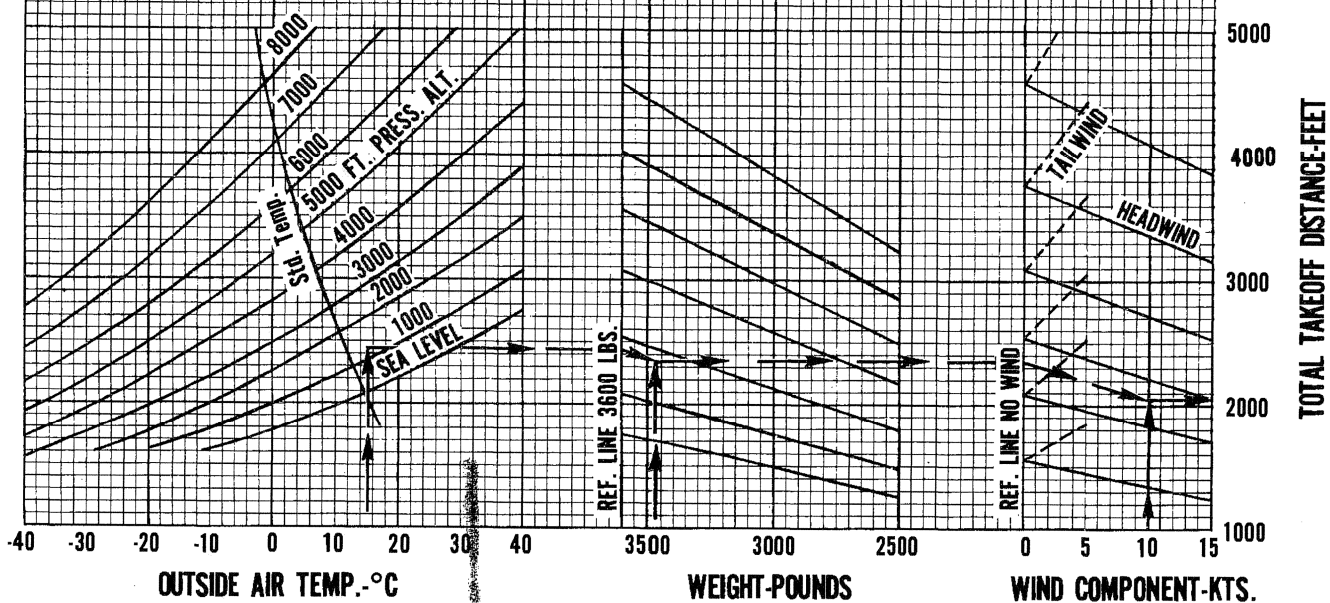
Figure 5-5

PA-32RT-300T

TOTAL TAKEOFF DISTANCE OVER 50 FT. BARRIER - 0° FLAPS

TAKEOFF POWER BEFORE BRAKE RELEASE
WING FLAP UP-COWL FLAPS OPEN
PAVED LEVEL DRY RUNWAY

LIFT OFF SPEED KIAS	BARRIER SPEED KIAS	WEIGHT LBS.
72	72	3600
70	70	3400
68	68	3200
66	66	3000
64	64	2800
62	62	2600



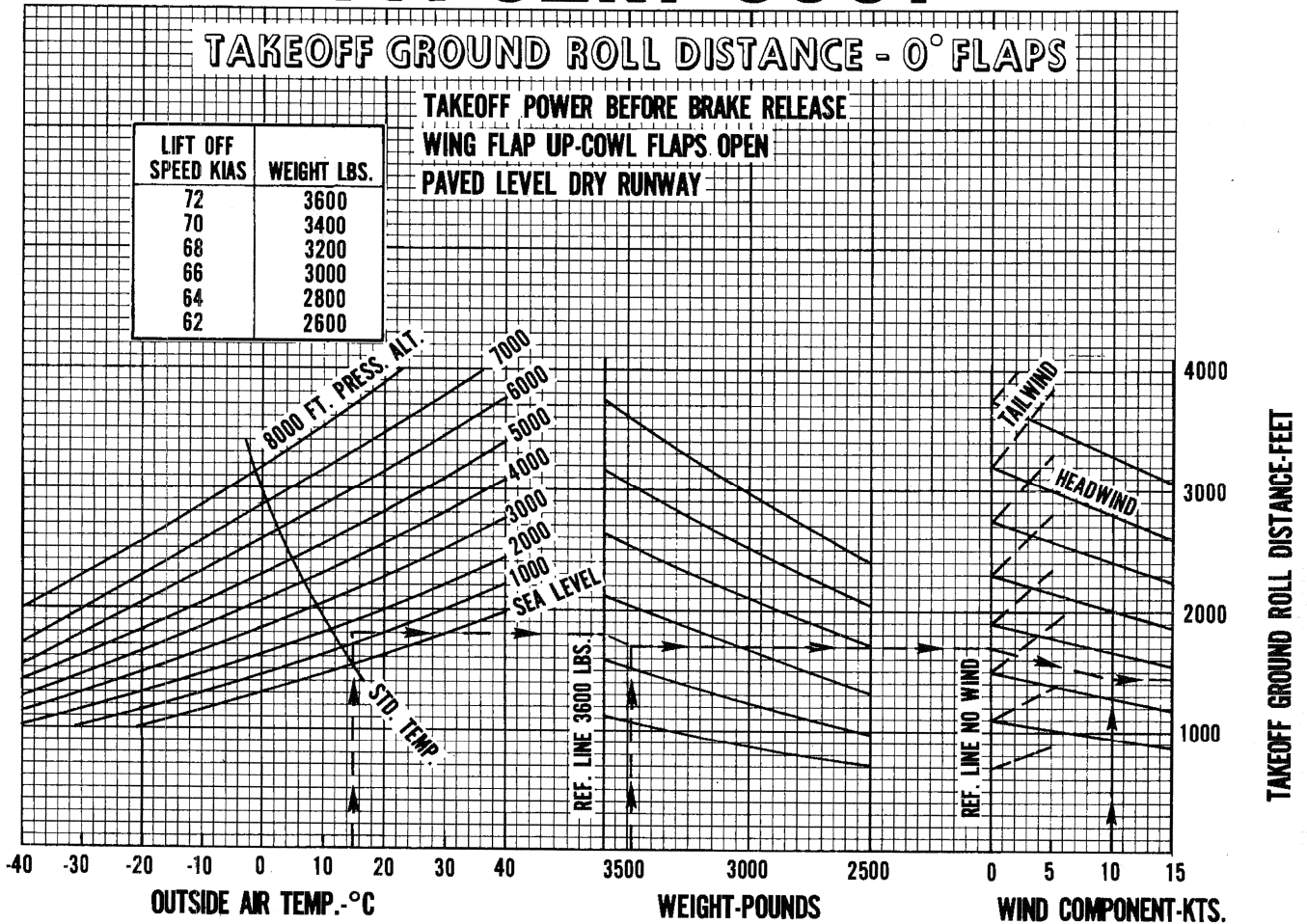
Example:

Airport pressure altitude: 1400 ft.
O.A.T.: 15 °C
Takeoff weight: 3480 lbs.
Wind component: 10 kts. headwind
Total takeoff distance: 2050 ft.

TOTAL TAKEOFF DISTANCE OVER 50 FT. BARRIER - 0° FLAPS

Figure 5-7

PA-32RT-300T



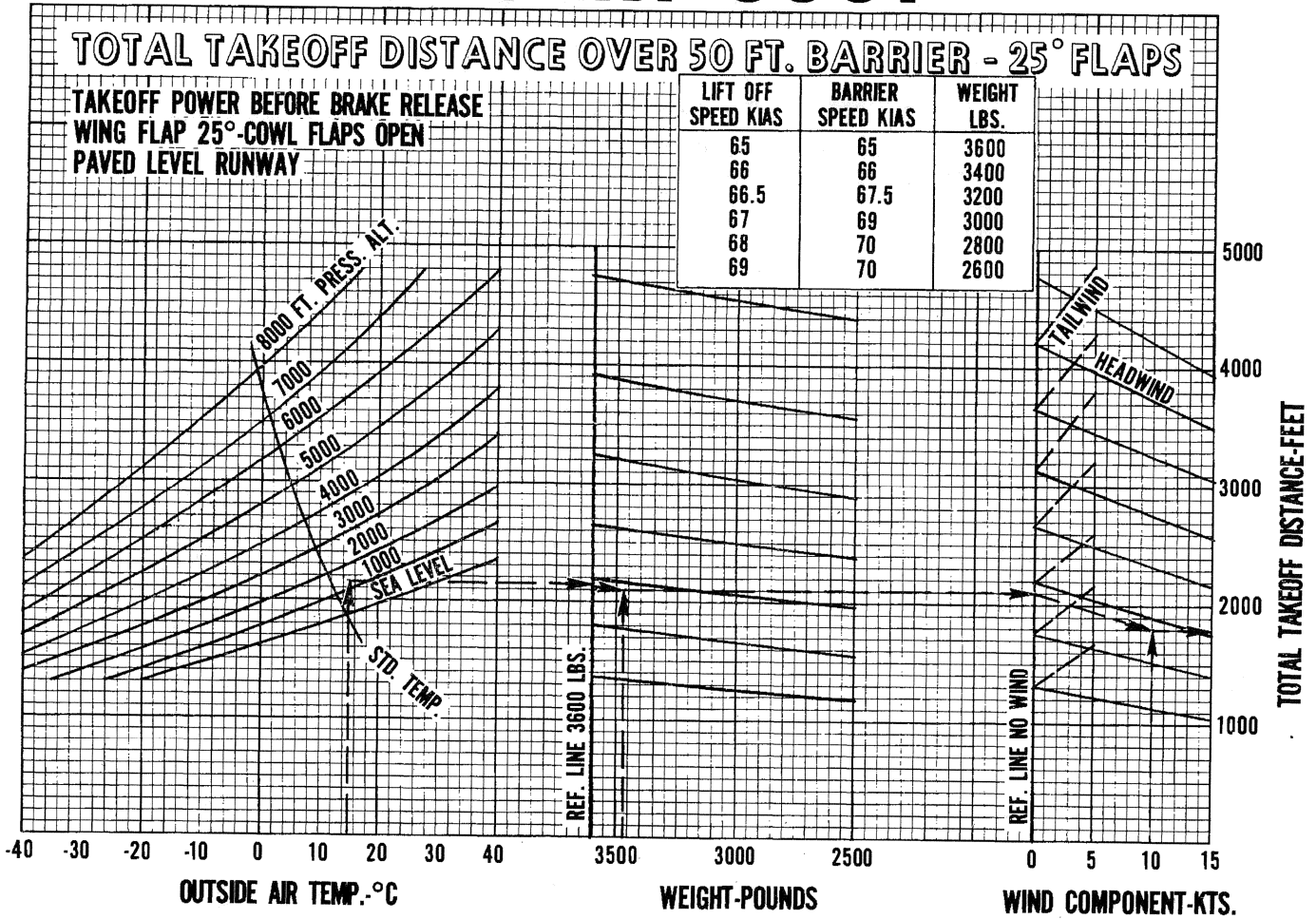
Example:

- Airport pressure altitude: 1400 ft.
- O.A.T.: 15 °C
- Takeoff weight: 3480 lbs.
- Wind component: 10 kts. headwind
- Takeoff ground roll dist.: 1450 ft.

TAKEOFF GROUND ROLL DISTANCE - 0° FLAPS

Figure 5-9

PA-32RT-300T



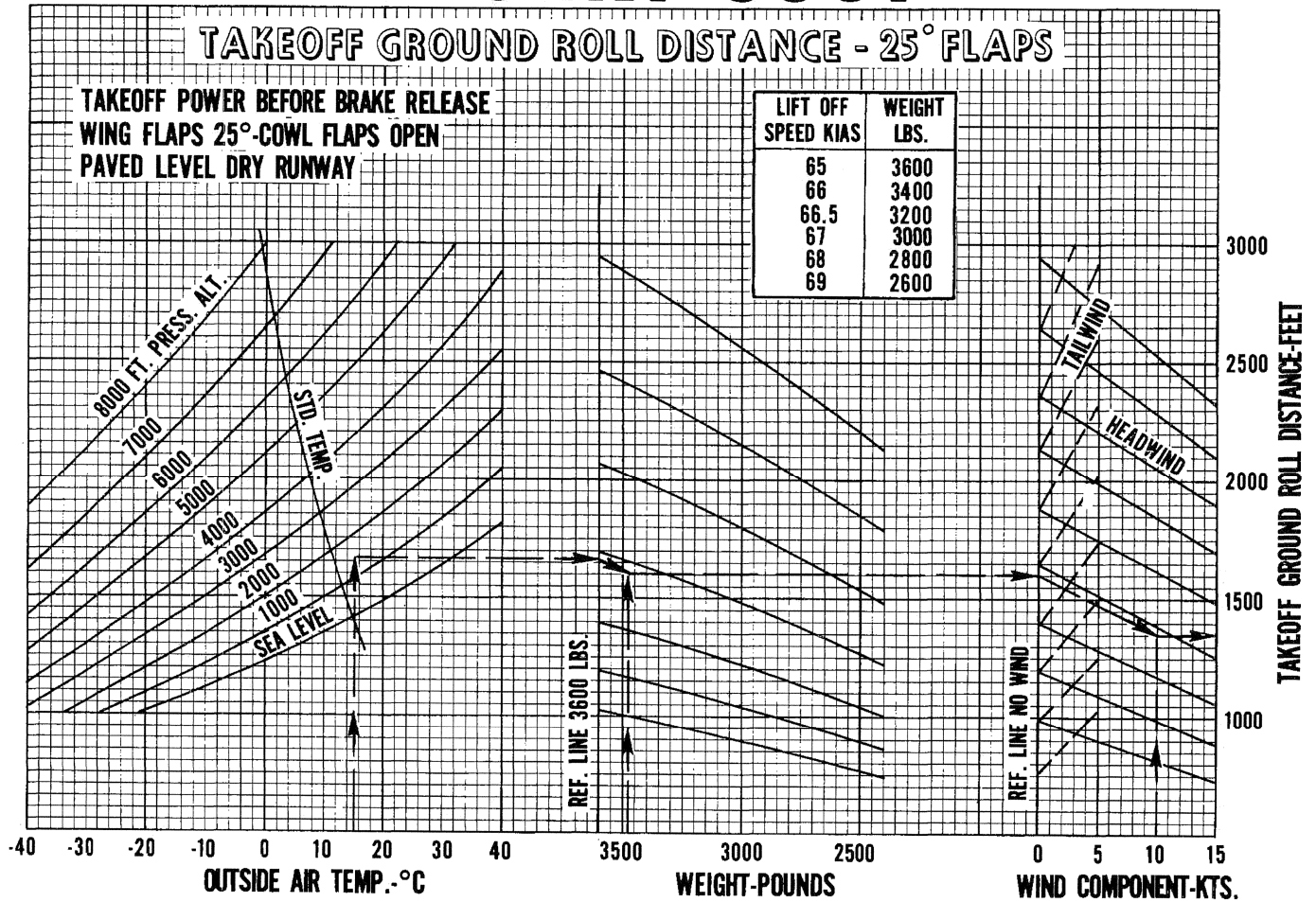
Example:

Airport pressure altitude: 1400 ft.
O.A.T.: 15 °C
Takeoff weight: 3480 lbs.
Wind component: 10 kts. headwind
Total takeoff distance: 1800 ft.

TOTAL TAKEOFF DISTANCE OVER 50 FT. BARRIER - 25° FLAPS

Figure 5-11

PA-32RT-300T



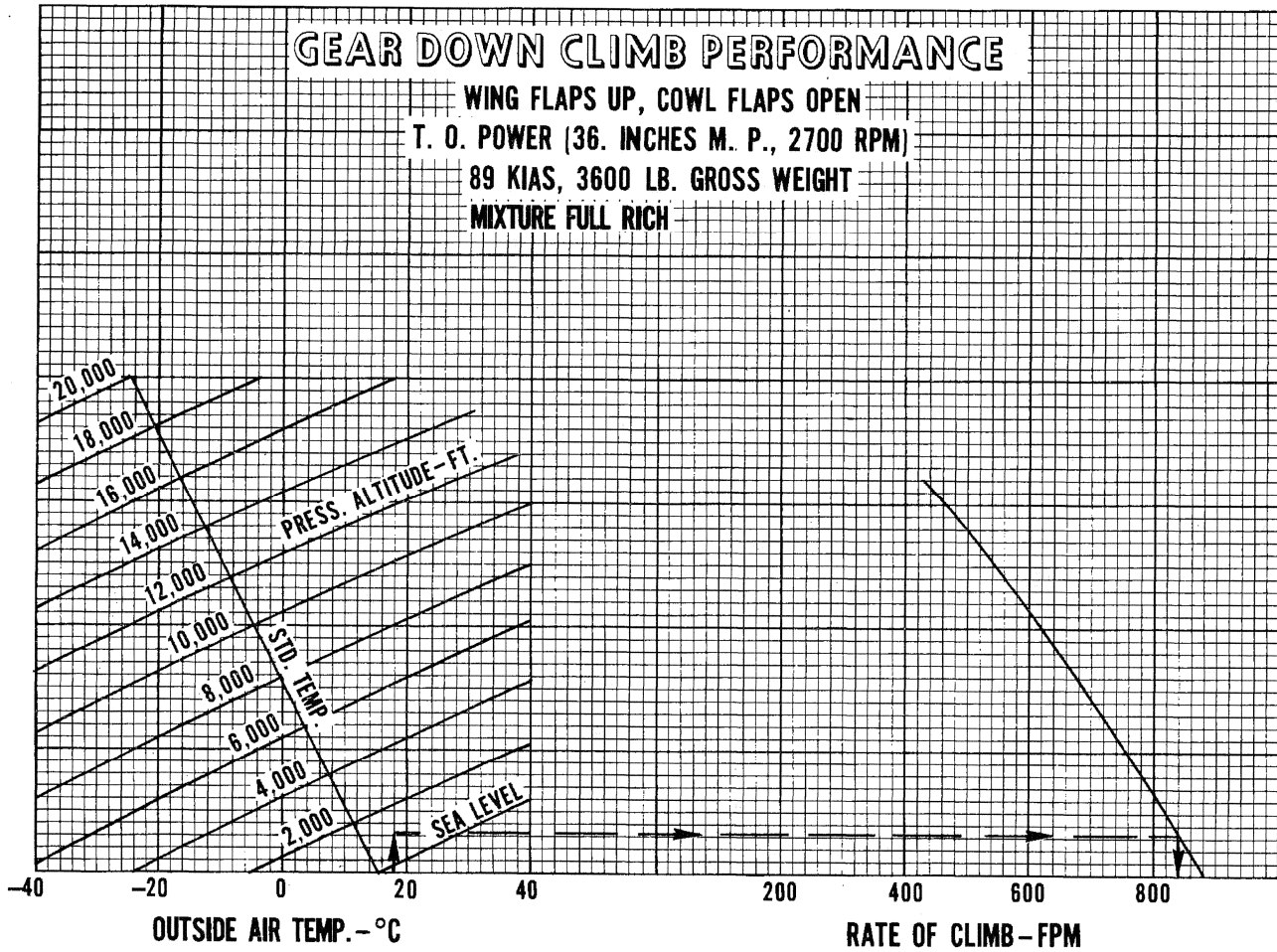
Example:

Airport pressure altitude: 1400 lbs.
O.A.T.: 15 °C
Takeoff weight: 3480 lbs.
Wind component: 10 kts. headwind
Takeoff ground roll: 1360 ft.

TAKEOFF GROUND ROLL DISTANCE - 25° FLAPS

Figure 5-13

PA-32RT-300T



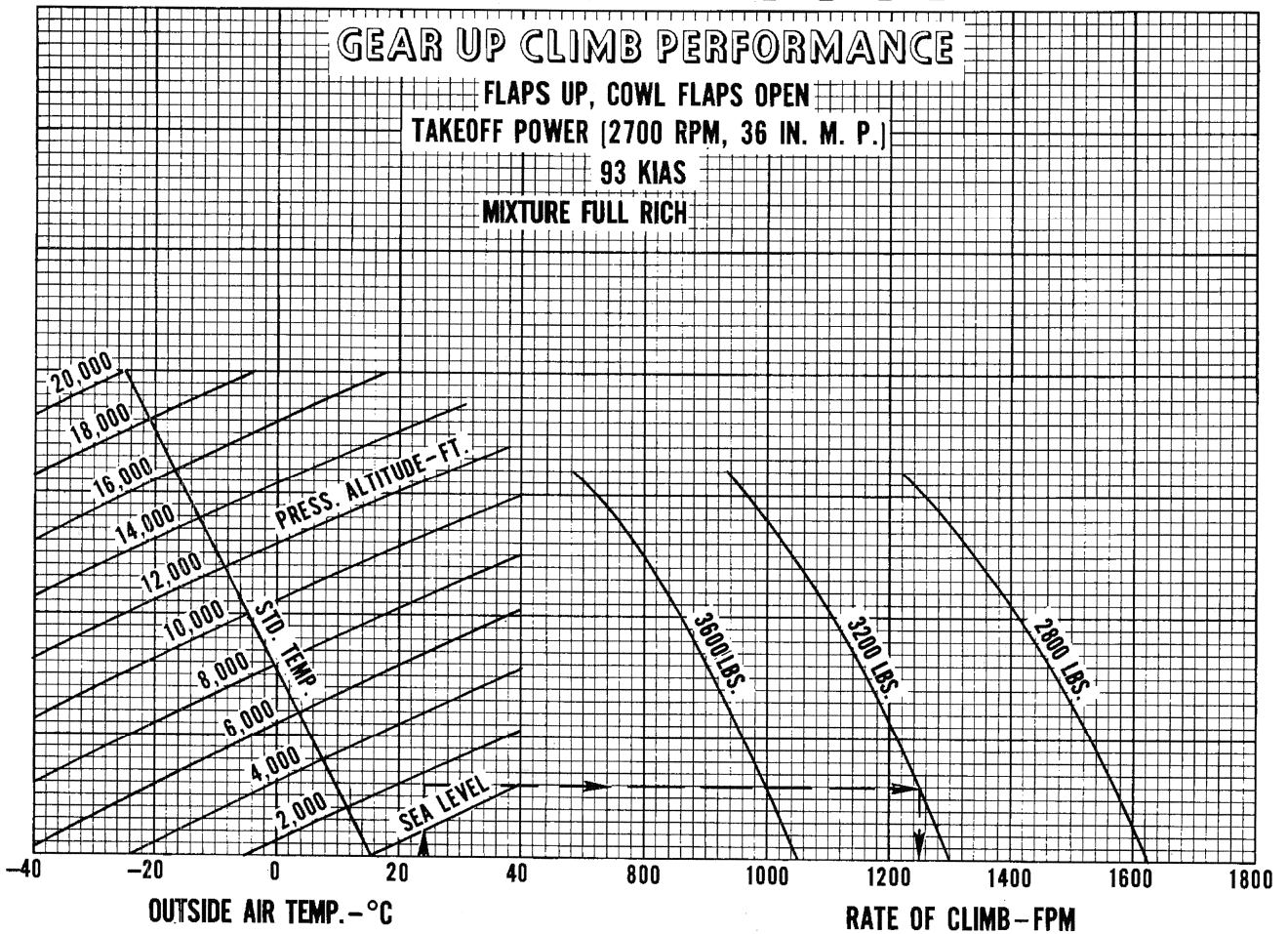
Example:

- Climb pressure altitude: 1000 ft.
- O.A.T.: 18 °C
- Gross weight: 3600 lbs.
- Rate of climb: 840 FPM

GEAR DOWN CLIMB PERFORMANCE (T.O. POWER)

Figure 5-15

PA-32RT-300T



Example:

Climb pressure altitude: 1500 ft.

O.A.T.: 24 °C

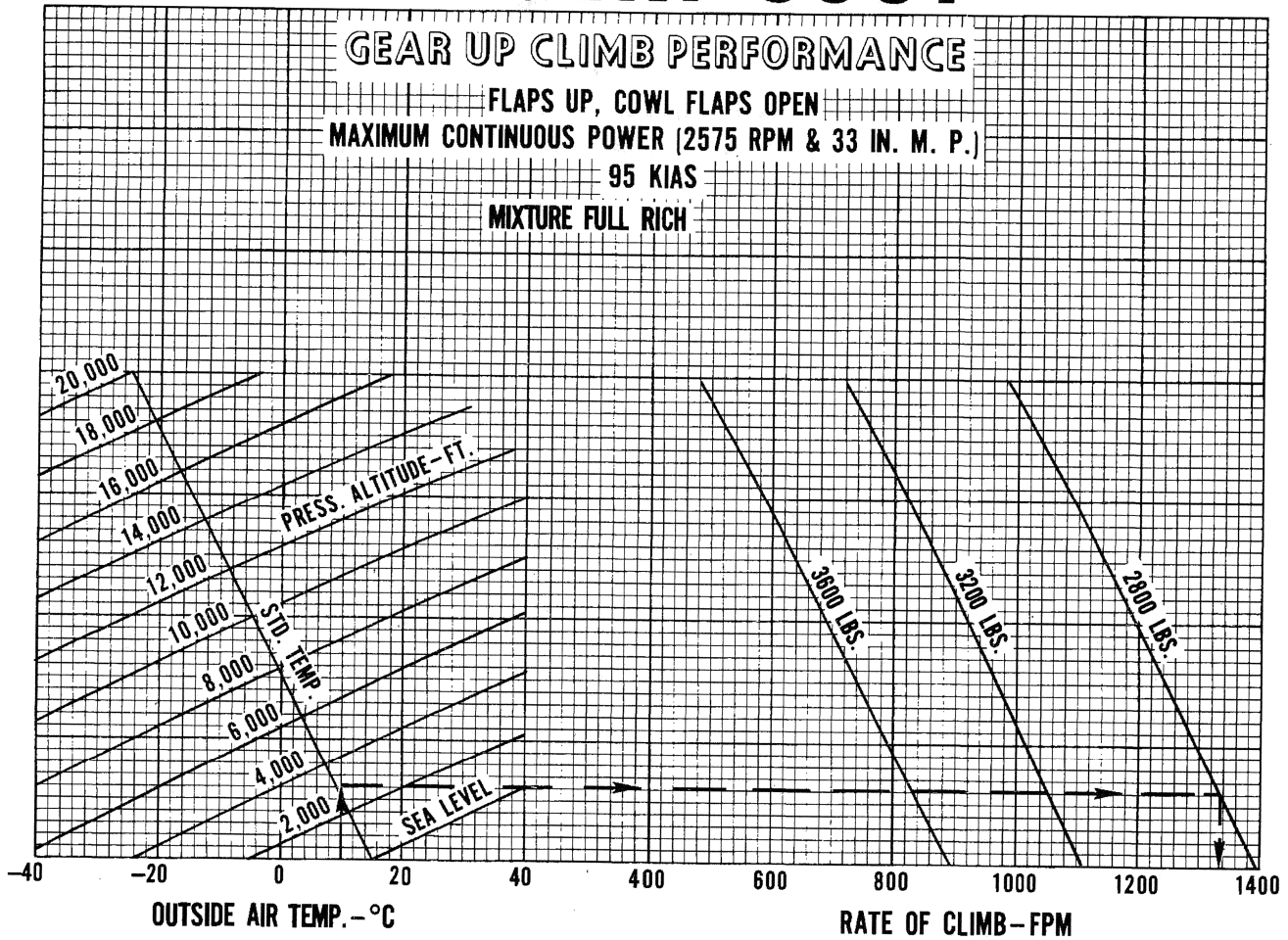
Gross weight: 3200 lbs.

Rate of climb: 1250 FPM

GEAR UP CLIMB PERFORMANCE (T.O. POWER)

Figure 5-17

PA-32RT-300T



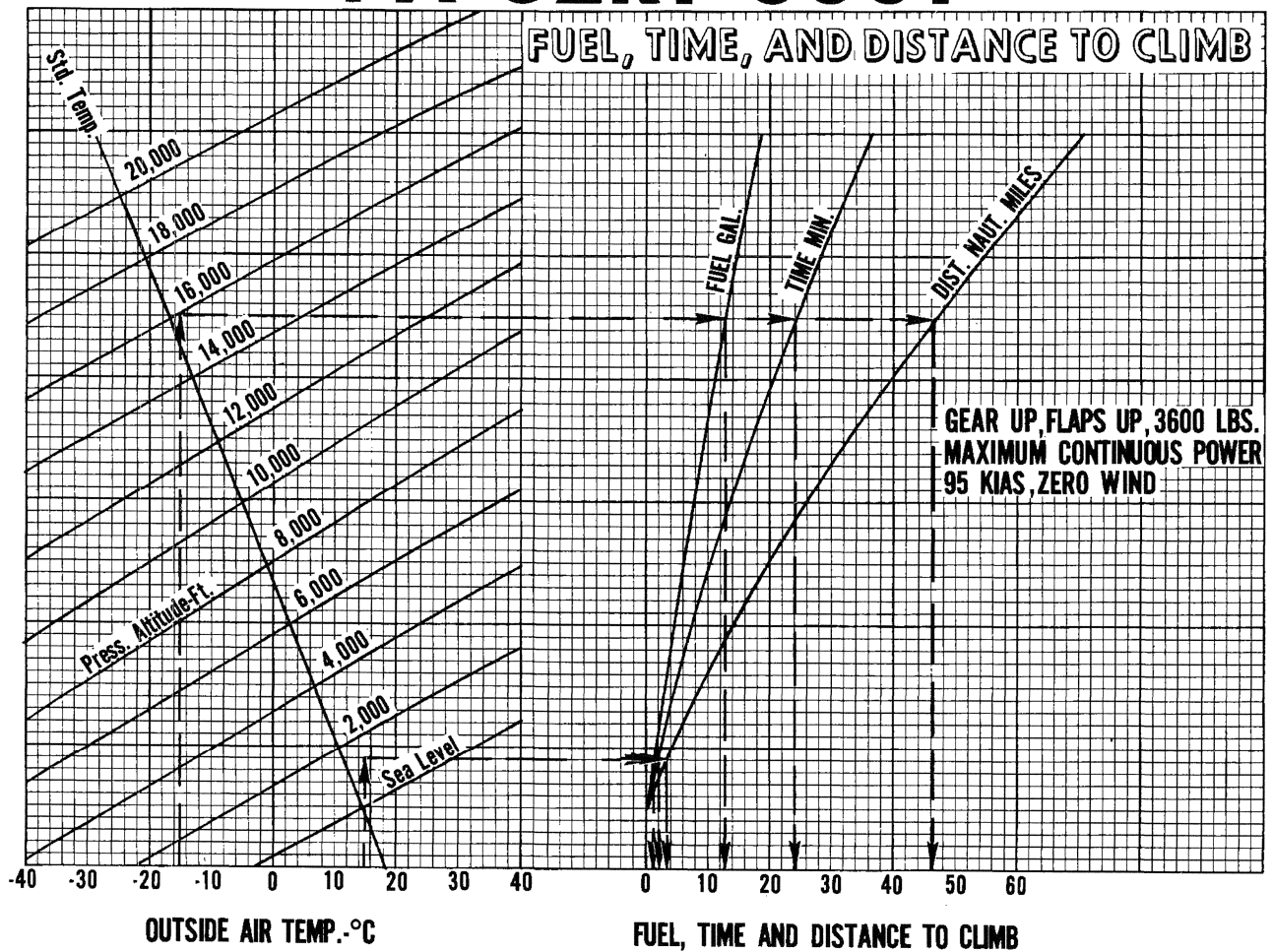
Example:

- Climb pressure altitude: 3000 ft.
- O.A.T.: 10°C
- Gross weight: 2800 lbs.
- Rate of climb: 1332 FPM

GEAR UP CLIMB PERFORMANCE (MAX. CONTINUOUS POWER)

Figure 5-19

PA-32RT-300T



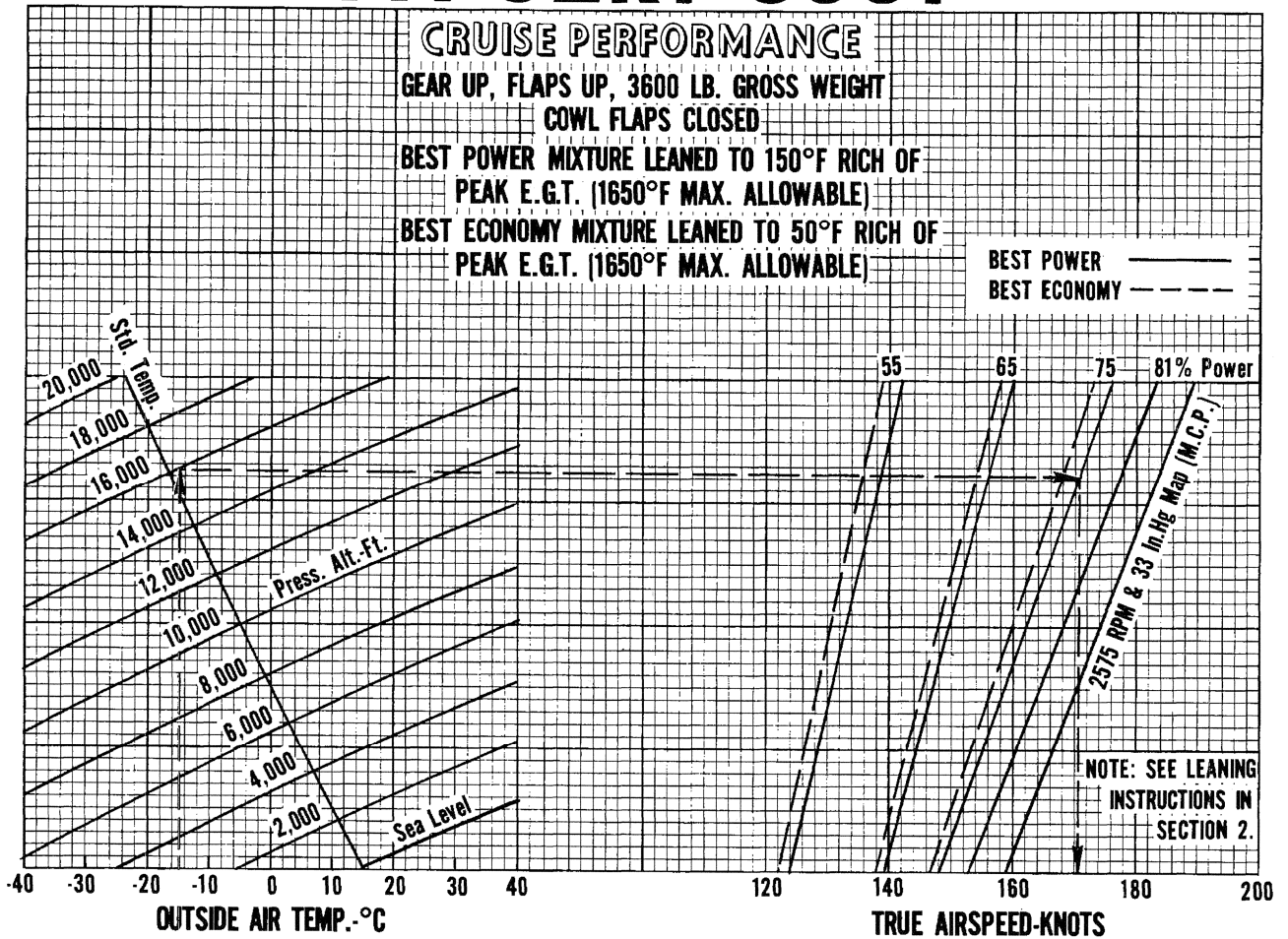
Example:

Departure airport press. alt.: 1400 ft.
 Departure airport O.A.T.: 15 °C
 Cruise press. alt.: 16000 ft.
 Cruise O.A.T.: -15 °C
 Fuel to climb: 13 minus 1 = 12 gal.
 Time to climb: 24 minus 2 = 22 min.
 Distance to climb: 47 minus 4 = 43 NM

FUEL, TIME, AND DISTANCE TO CLIMB

Figure 5-21

PA-32RT-300T



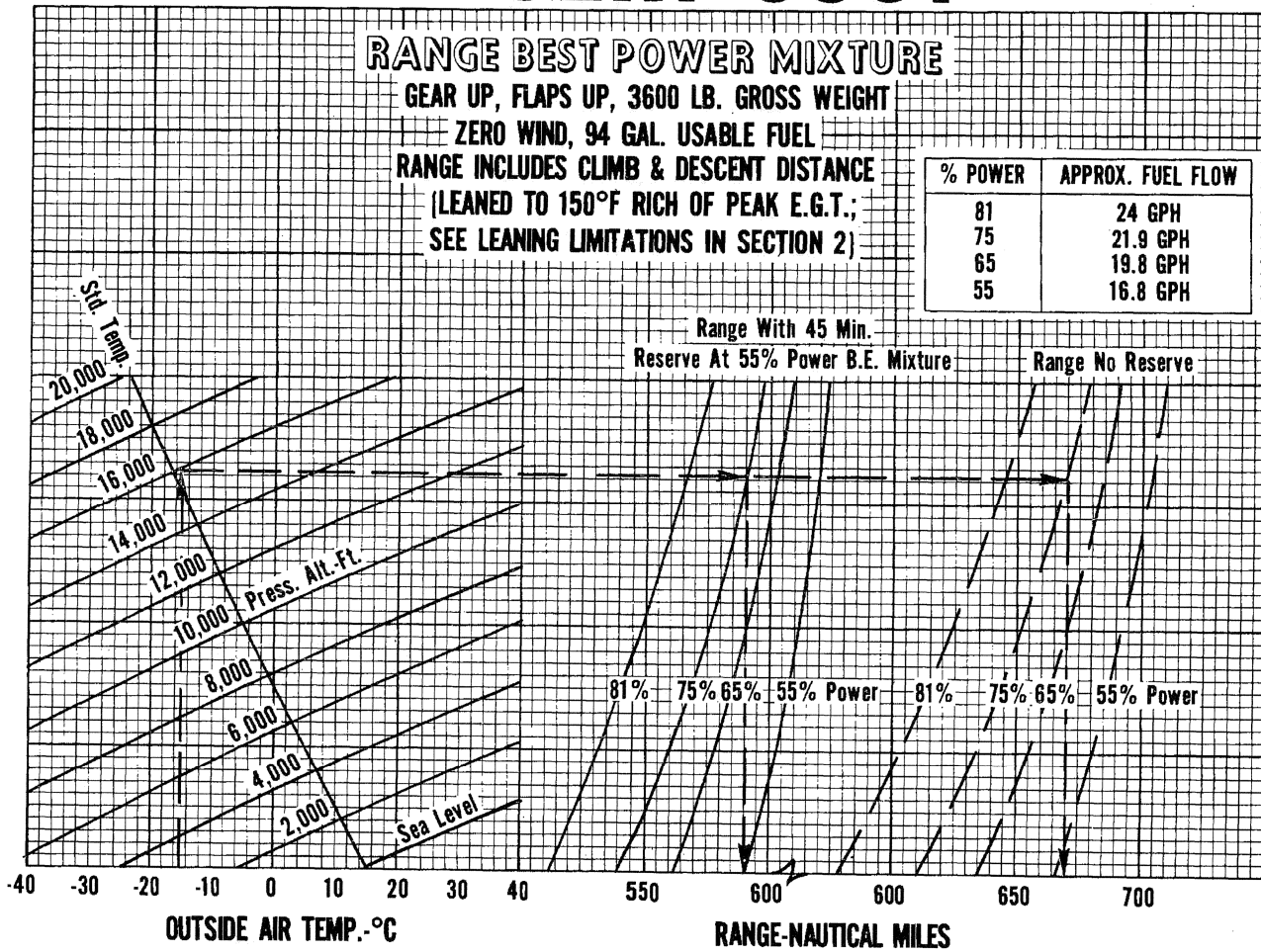
Example:

Cruise pressure altitude: 16000 ft.
 Cruise O.A.T.: -15 °C
 Power: 75% best power
 True airspeed: 170 KTAS

CRUISE PERFORMANCE

Figure 5-25

PA-32RT-300T



Example:

- Cruise pressure altitude: 16000 ft.
- Cruise O.A.T.: -15 °C
- Power: 75%
- Range with reserve: 590 NM
- Range no reserve: 670 NM

RANGE - BEST POWER MIXTURE

Figure 5-27

PA-32RT-300T

RANGE BEST ECONOMY MIXTURE

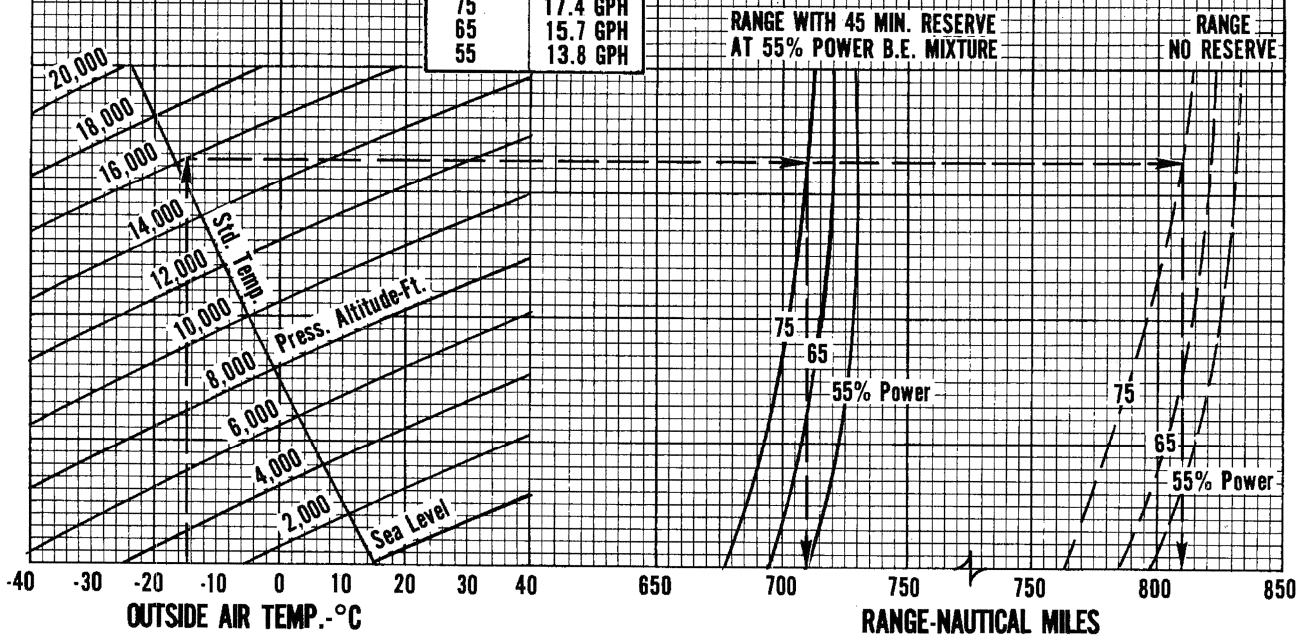
(LEANED TO 50°F RICH OF PEAK E.G.T.; SEE LEANING LIMITATIONS IN SECTION 2)

GEAR UP, FLAPS UP, 3600 LB. GROSS WT.

ZERO WIND, 94 GAL. USABLE FUEL

RANGE INCLUDES CLIMB & DESCENT DISTANCE

% POWER	APPROX. FUEL FLOW
75	17.4 GPH
65	15.7 GPH
55	13.8 GPH



Example:

Cruise pressure altitude: 16000 ft.

Cruise O.A.T.: -15 °C

Power: 75%

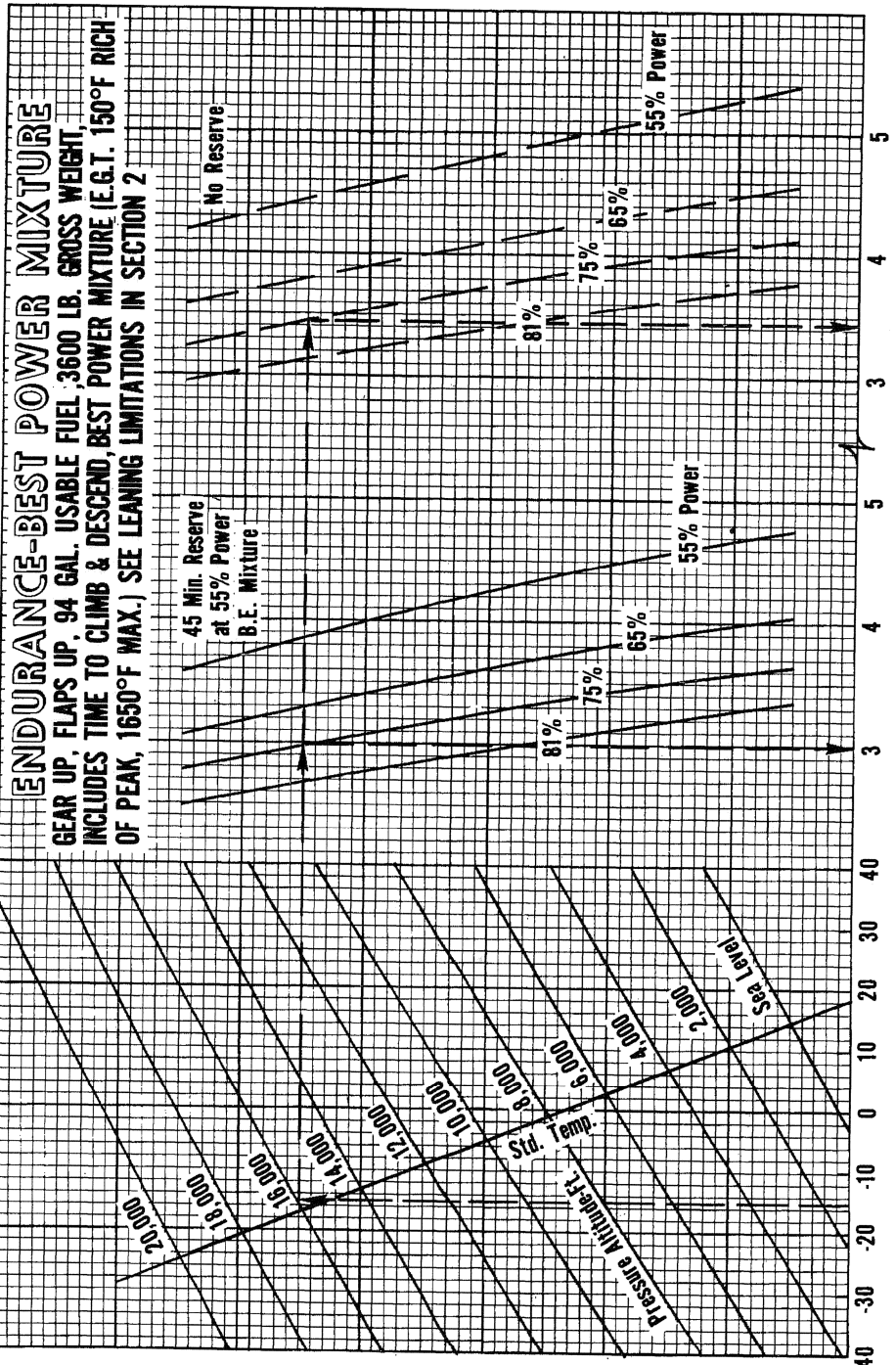
Range of reserve: 710 NM

Range no reserve: 809 MN

RANGE - BEST ECONOMY MIXTURE

Figure 5-29

PA-32RT-300T



Example:
 Cruise pressure altitude: 16000 ft.
 Cruise O.A.T.: -15 °C
 Cruise power: 75%
 Endurance with reserve: 3 hrs.
 Endurance no reserve: 3.45 hrs.

ENDURANCE - BEST POWER MIXTURE

Figure 5-31