



PA-38 TOMAHAWK



OPERATING DATA MANUAL

Just Flight

PA-38 TOMAHAWK

Operating Data Manual

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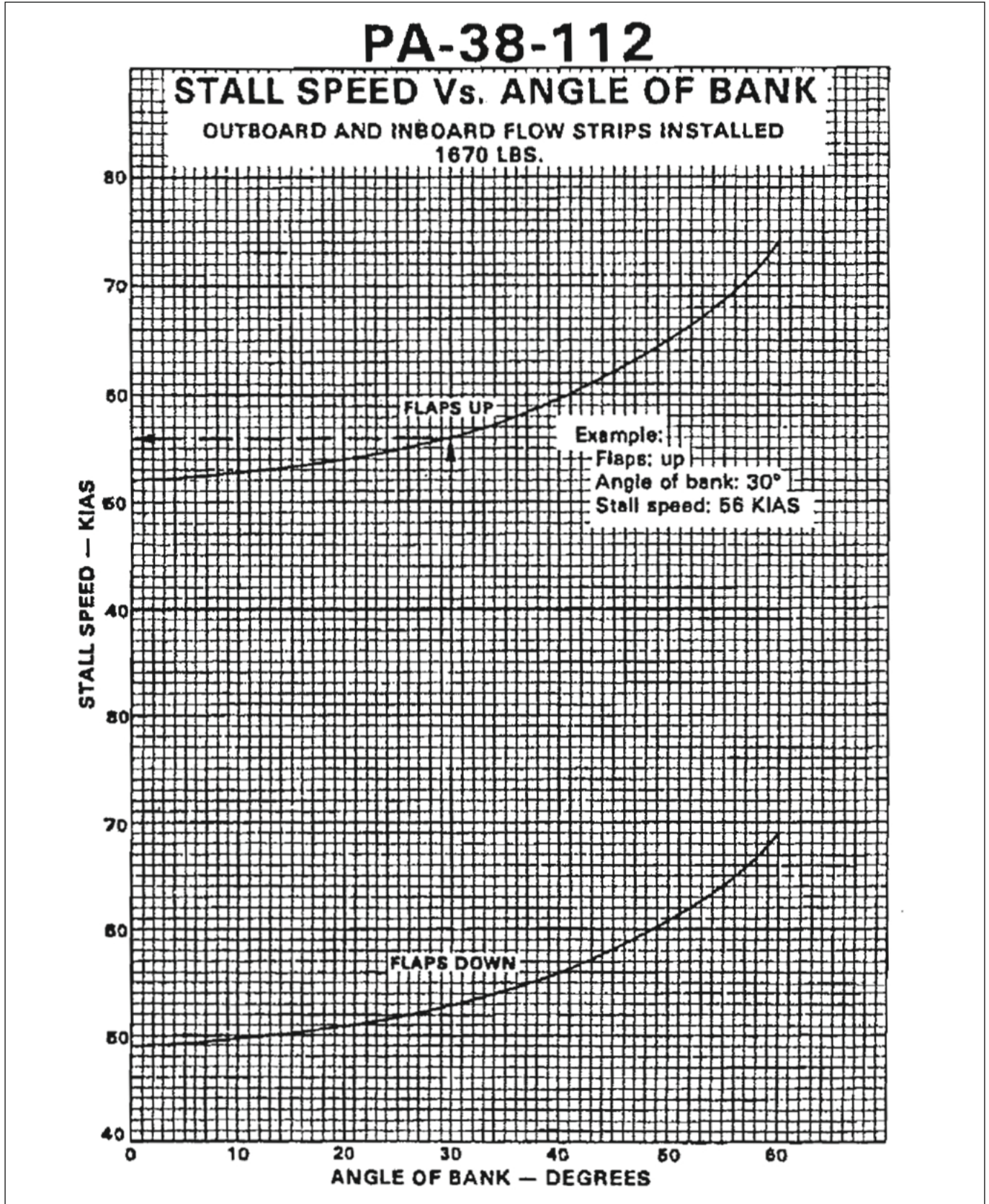
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STALL PERFORMANCE

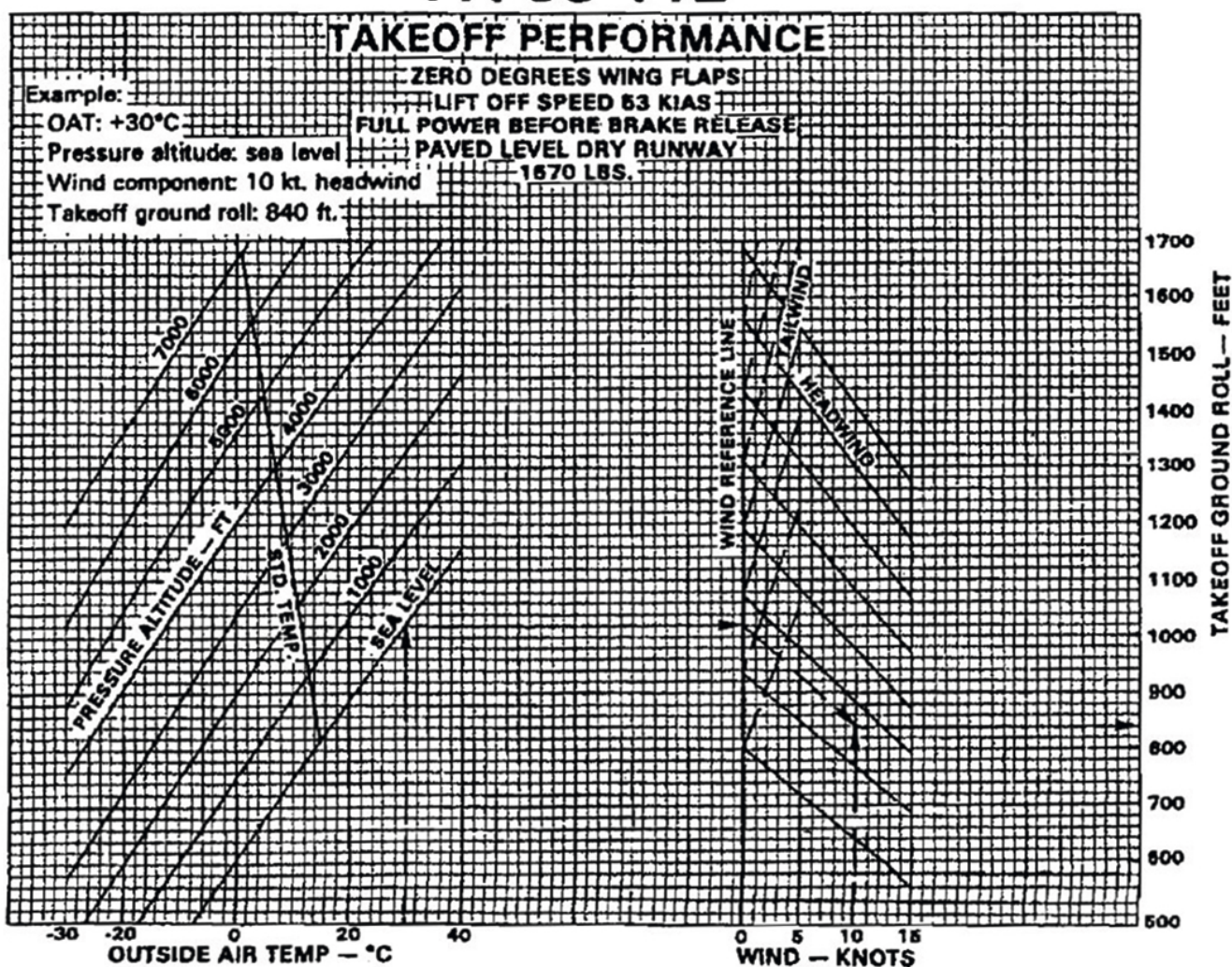
Stall speed



TAKE-OFF PERFORMANCE

Flaps up take-off performance

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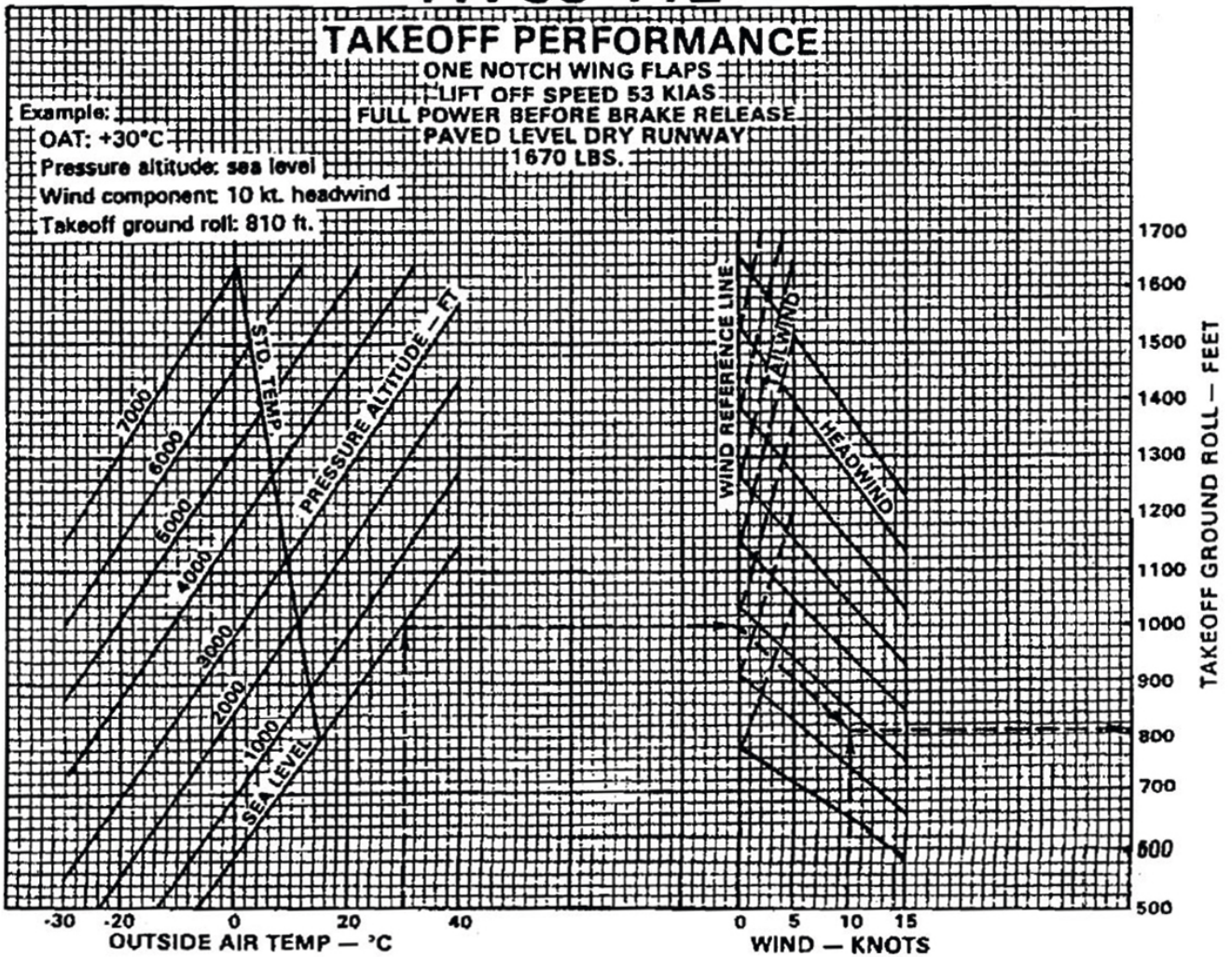
Flaps 21° take-off performance

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TAKEOFF PERFORMANCE

ONE NOTCH WING FLAPS
 LIFT OFF SPEED 53 KIAS
 FULL POWER BEFORE BRAKE RELEASE
 PAVED LEVEL DRY RUNWAY
 1670 LBS.

Example:
 OAT: +30°C
 Pressure altitude: sea level
 Wind component: 10 kt. headwind
 Takeoff ground roll: 810 ft.



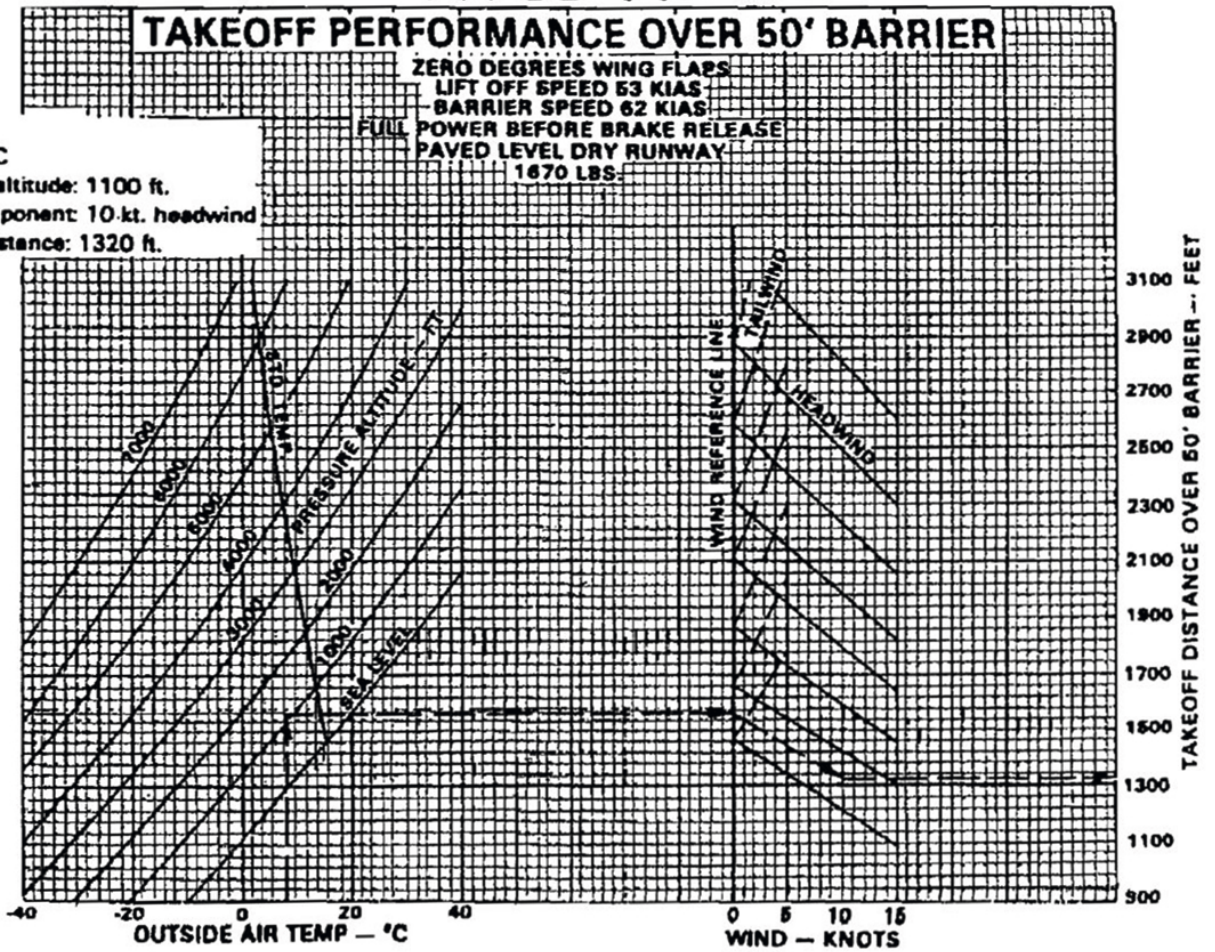
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TAKEOFF PERFORMANCE OVER 50' BARRIER

ZERO DEGREES WING FLAPS
 LIFT OFF SPEED 53 KIAS
 BARRIER SPEED 62 KIAS
 FULL POWER BEFORE BRAKE RELEASE
 PAVED LEVEL DRY RUNWAY
 1670 LBS.

Example:

OAT: +8°C
 Pressure altitude: 1100 ft.
 Wind component: 10-kt. headwind
 Takeoff distance: 1320 ft.



Flaps 21° take-off performance over 50ft barrier

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TAKEOFF PERFORMANCE OVER 50' BARRIER

Example:

OAT: +30°C

Pressure altitude: sea level

Wind component: 10 kt. headwind

Takeoff distance: 1380 ft.

ONE NOTCH WING FLAPS

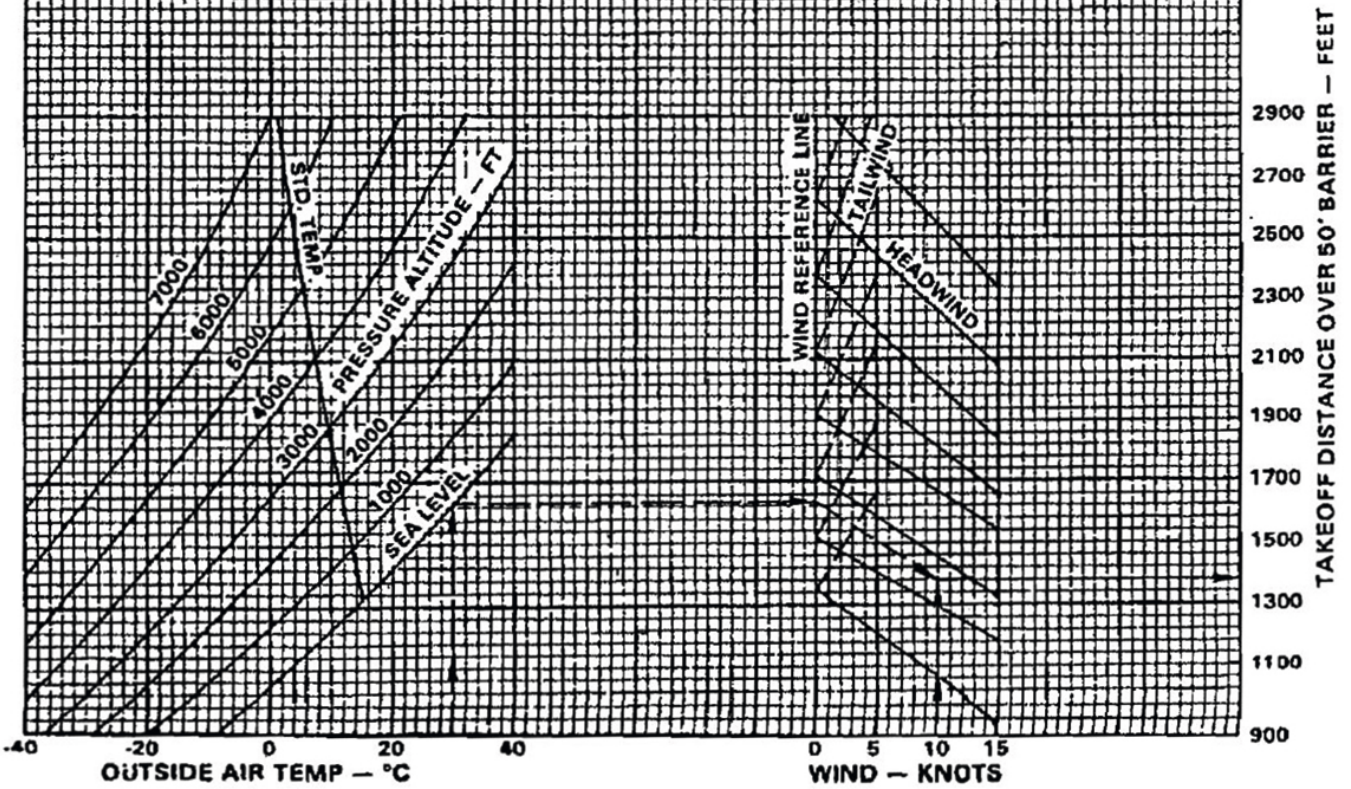
LIFT OFF SPEED 53 KIAS

BARRIER SPEED 62 KIAS

FULL POWER BEFORE BRAKE RELEASE

PAVED LEVEL DRY RUNWAY

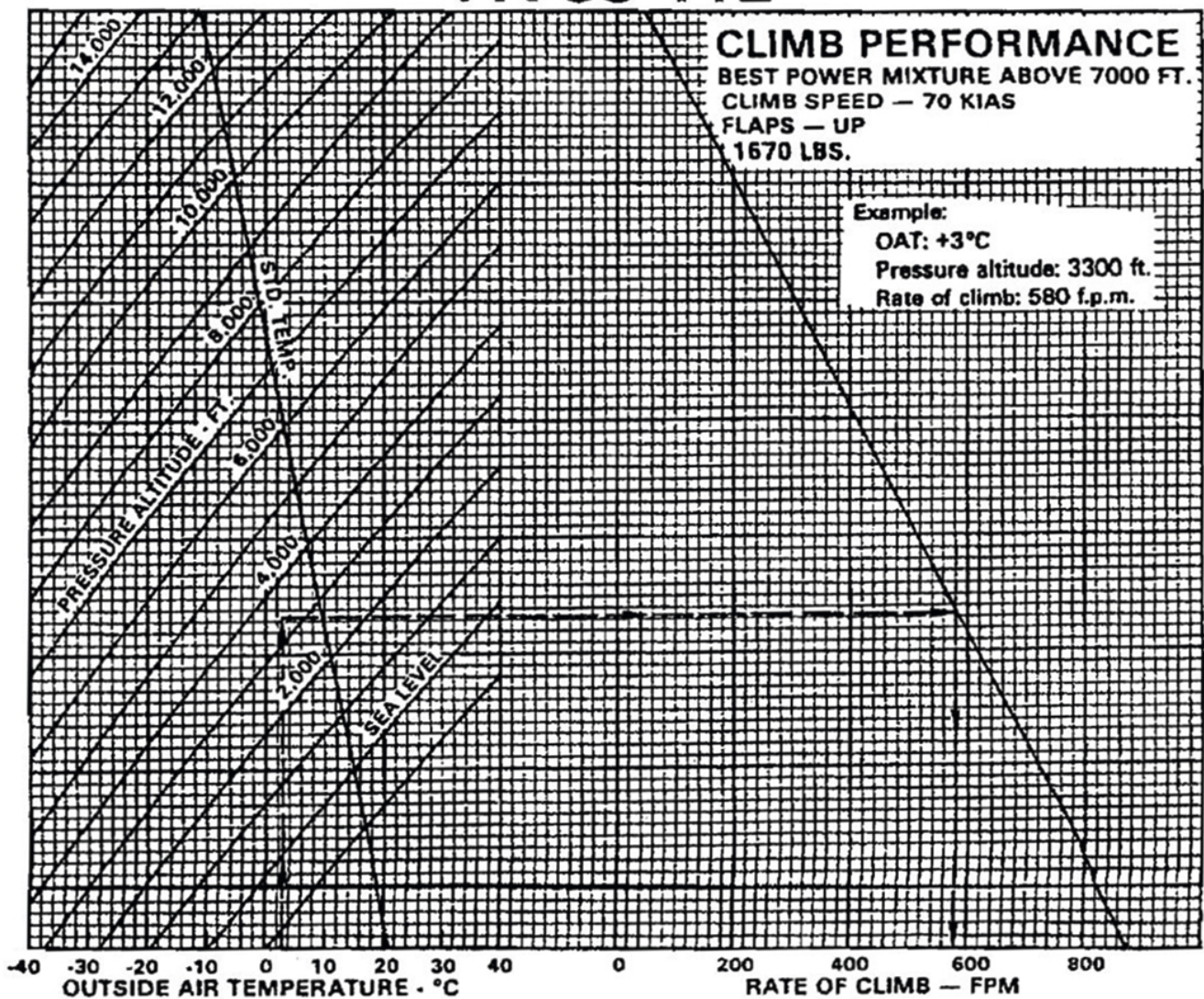
1670 LBS



CLIMB PERFORMANCE

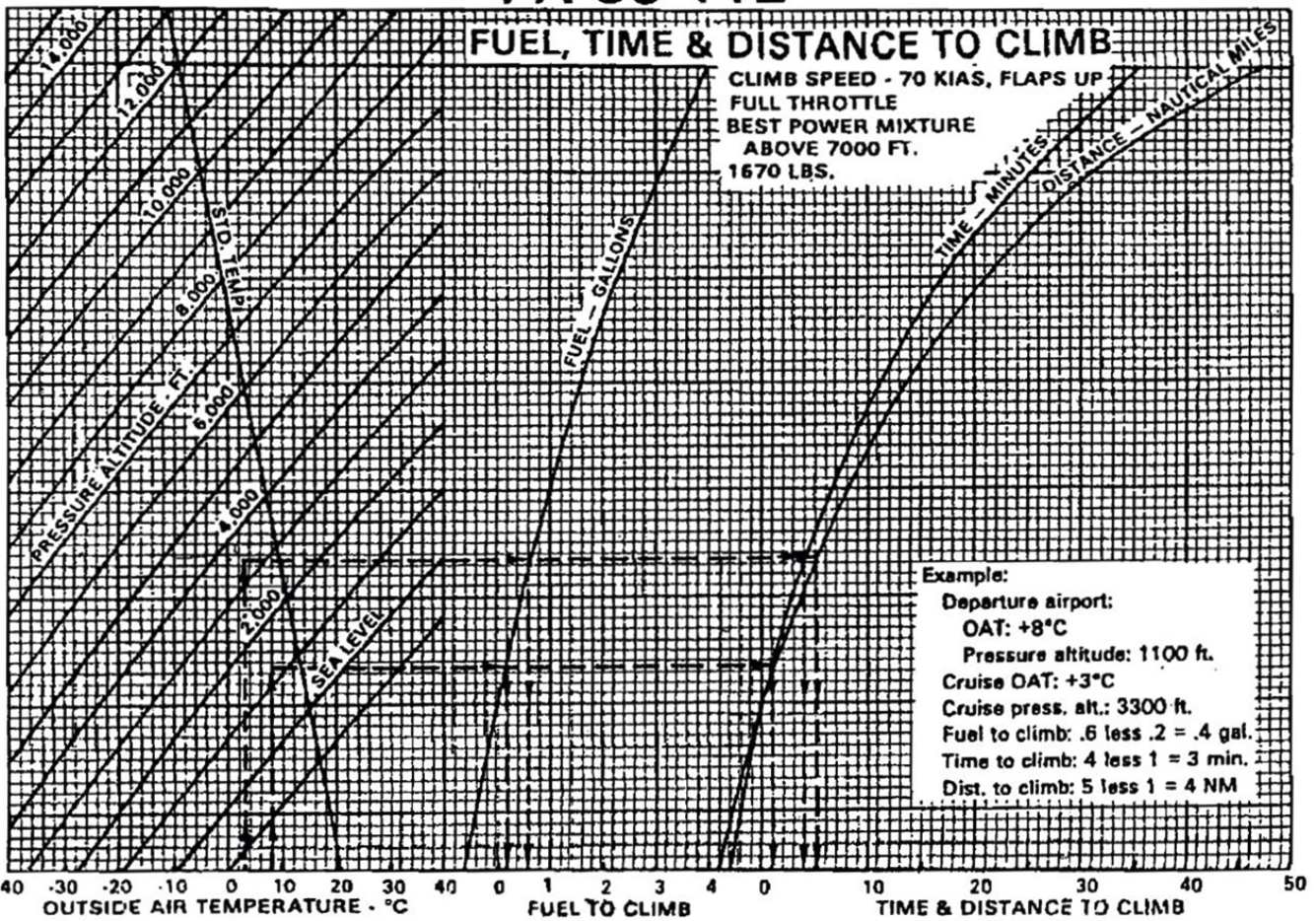
Climb performance

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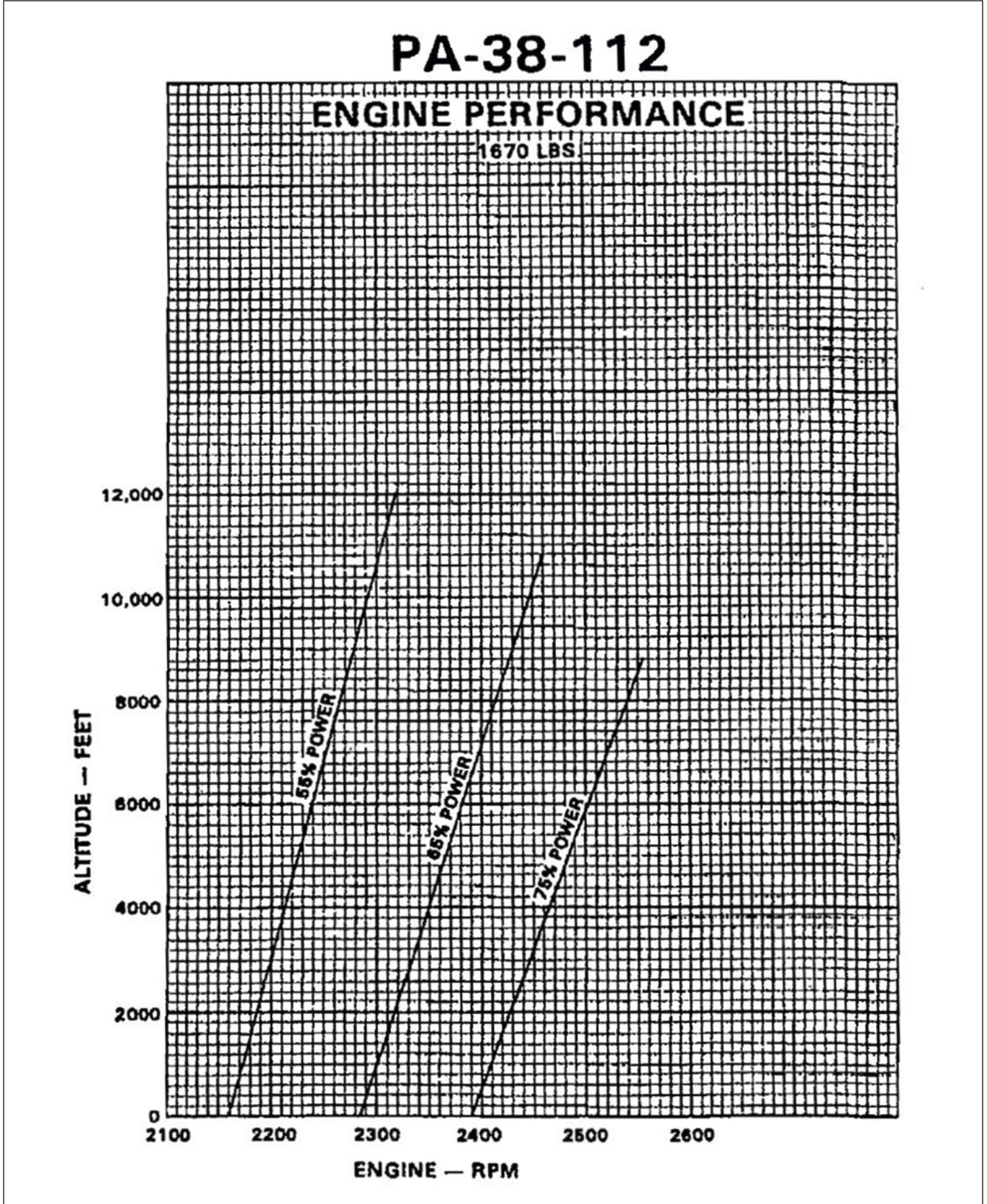
Fuel, time and distance to climb

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LEVEL FLIGHT PERFORMANCE

Engine performance

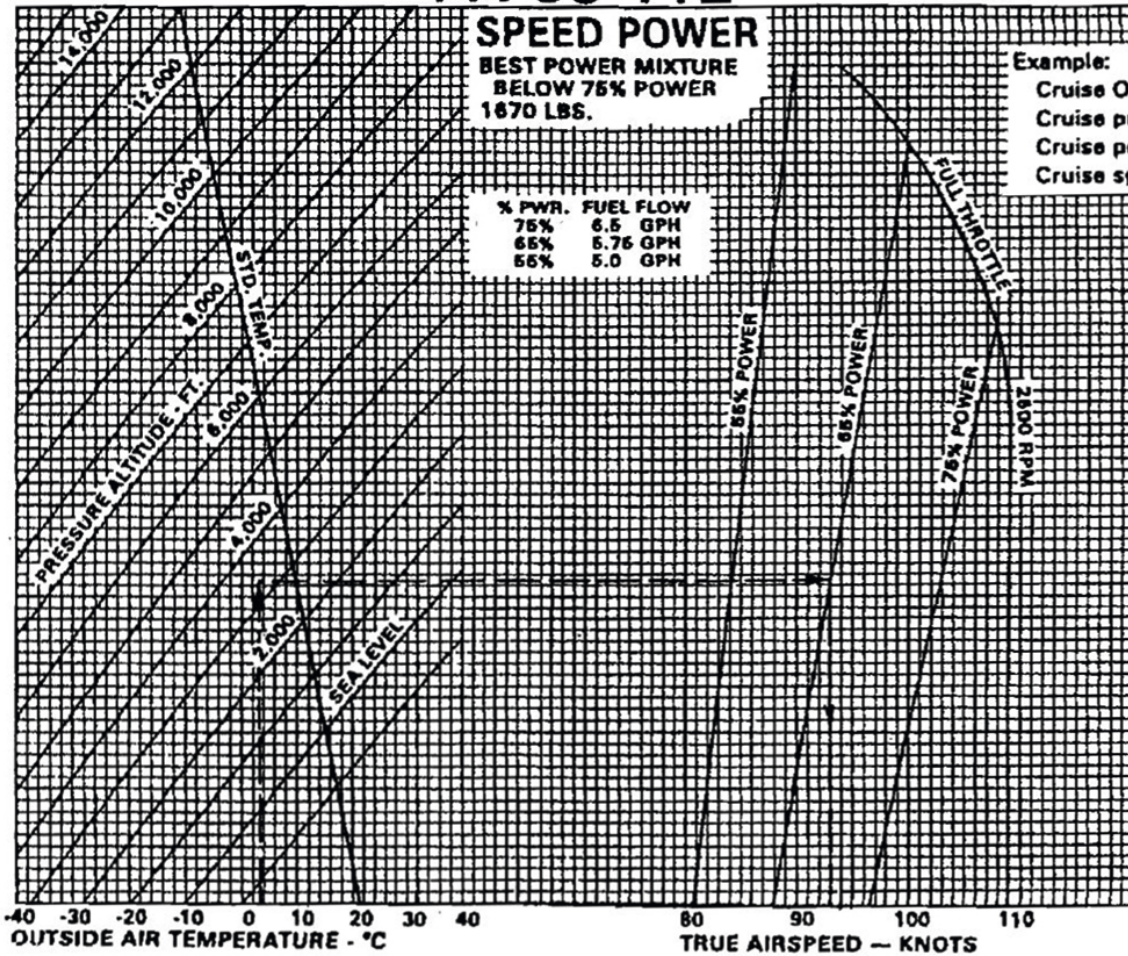


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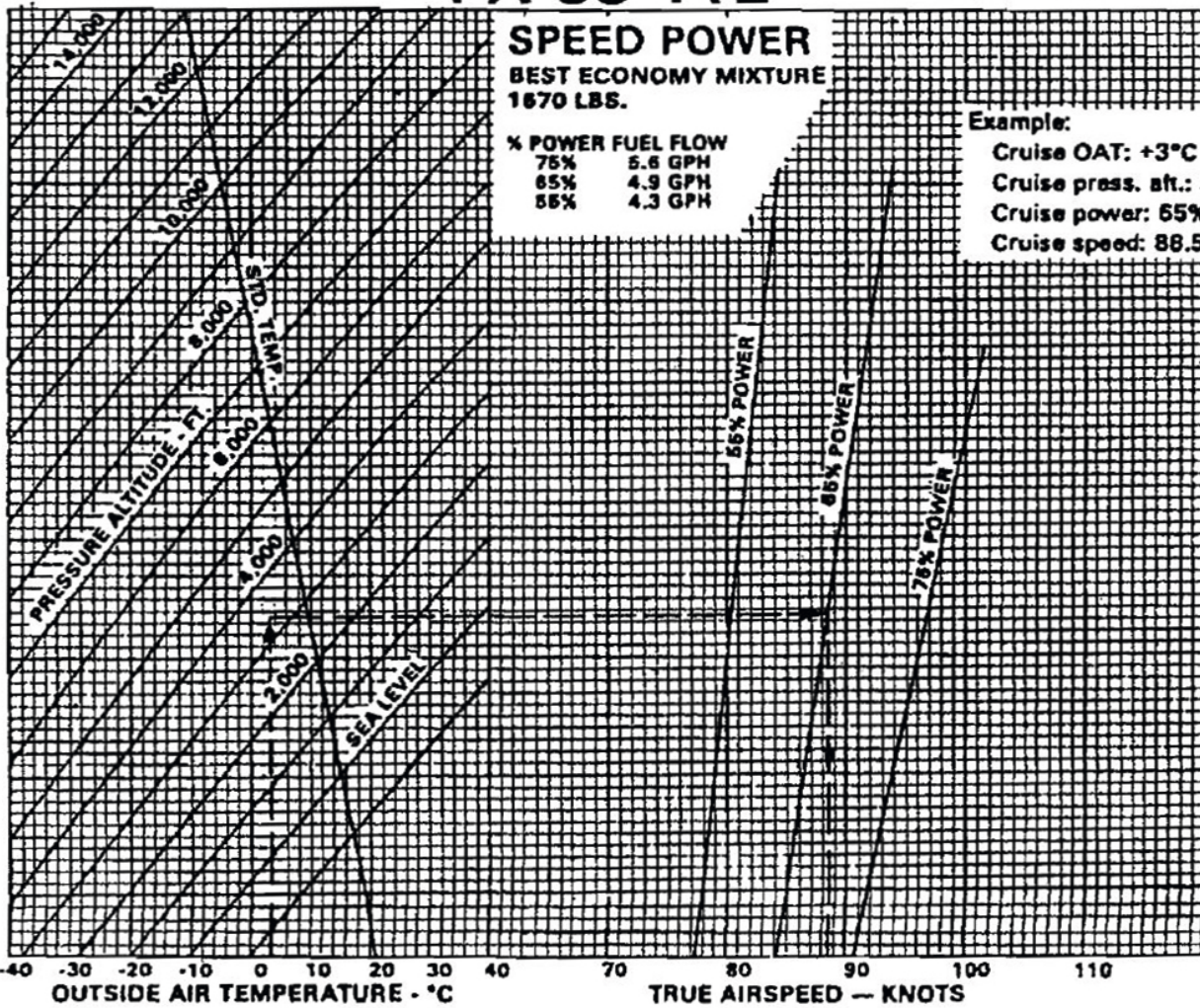
SPEED POWER
BEST POWER MIXTURE
BELOW 75% POWER
1670 LBS.

% PWR.	FUEL FLOW
75%	6.5 GPH
65%	5.76 GPH
55%	5.0 GPH

Example:
 Cruise OAT: +3°C
 Cruise press. alt.: 3300 ft.
 Cruise power: 65%
 Cruise speed: 93 kts.



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Best power range

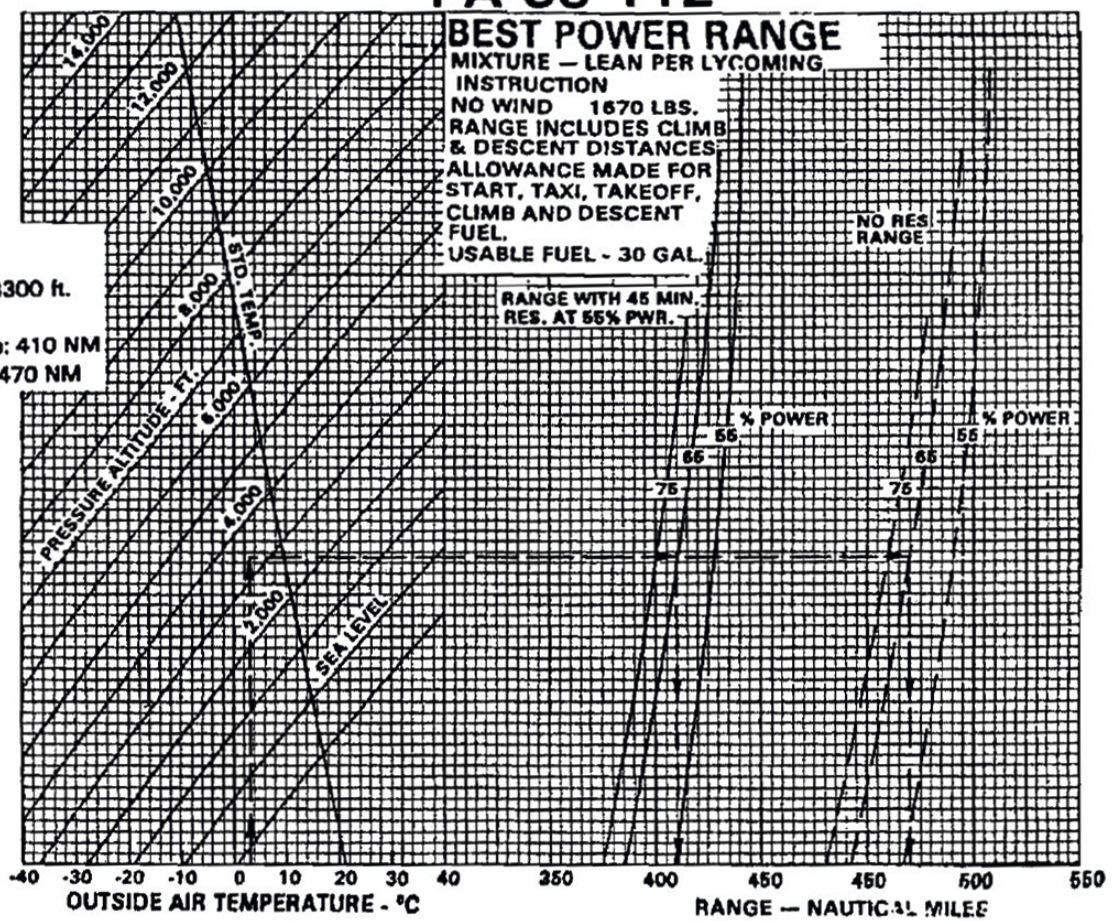
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BEST POWER RANGE

MIXTURE — LEAN PER LYCOMING INSTRUCTION
 NO WIND 1670 LBS.
 RANGE INCLUDES CLIMB & DESCENT DISTANCES
 ALLOWANCE MADE FOR START, TAXI, TAKEOFF, CLIMB AND DESCENT FUEL.
 USABLE FUEL - 30 GAL.

NO RES. RANGE

RANGE WITH 45 MIN. RES. AT 65% PWR.



Example:

Cruise OAT: +3°C
 Cruise press. alt.: 3300 ft.
 Cruise power: 65%
 Range with reserve: 410 NM
 Range no reserve: 470 NM

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BEST ECONOMY RANGE

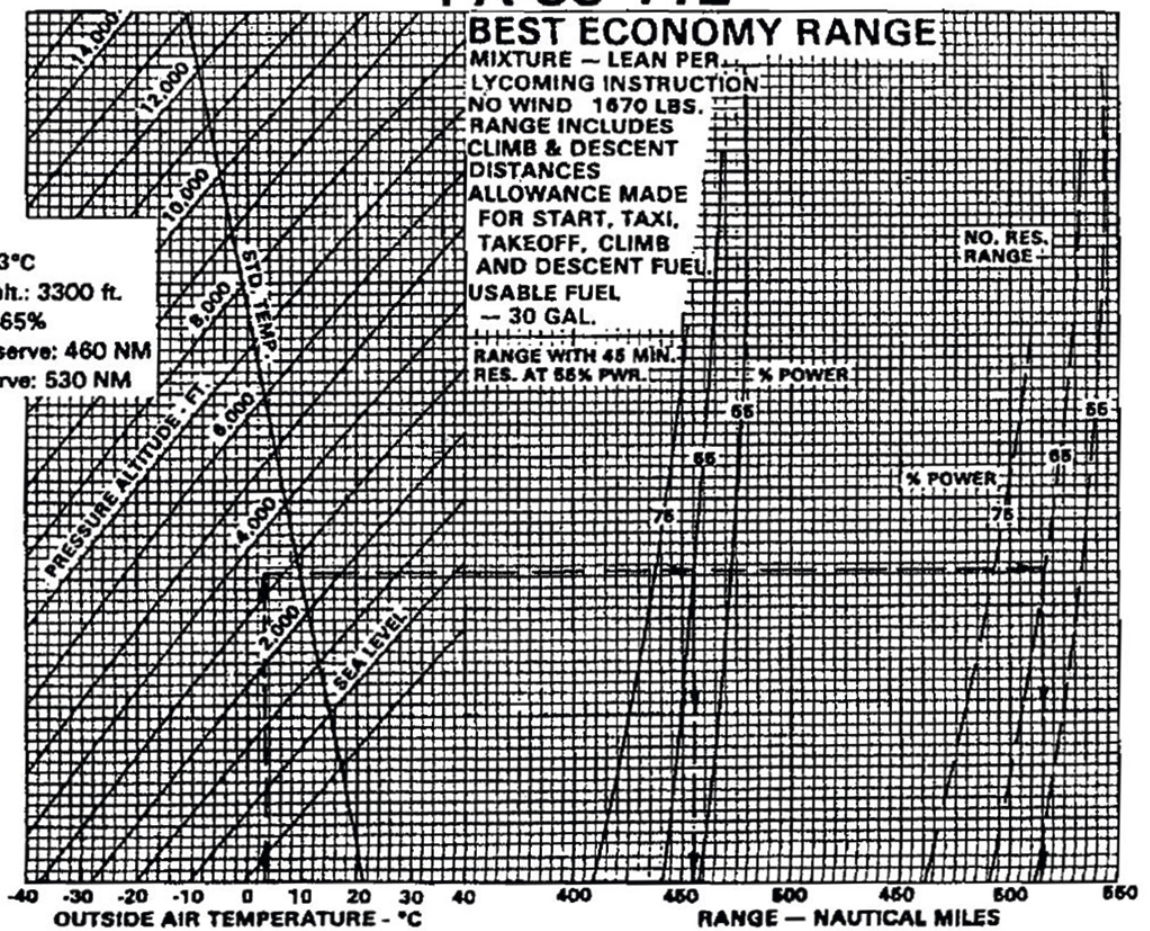
MIXTURE - LEAN PER
 LYCOMING INSTRUCTION
 NO WIND 1670 LBS.
 RANGE INCLUDES
 CLIMB & DESCENT
 DISTANCES
 ALLOWANCE MADE
 FOR START, TAXI,
 TAKEOFF, CLIMB
 AND DESCENT FUEL.
 USABLE FUEL
 - 30 GAL.

RANGE WITH 45 MIN.
 RES. AT 65% PWR.

NO. RES.
 RANGE

Example:

- Cruise OAT: +3°C
- Cruise press. alt.: 3300 ft.
- Cruise power: 65%
- Range with reserve: 460 NM
- Range no reserve: 530 NM



Best power endurance

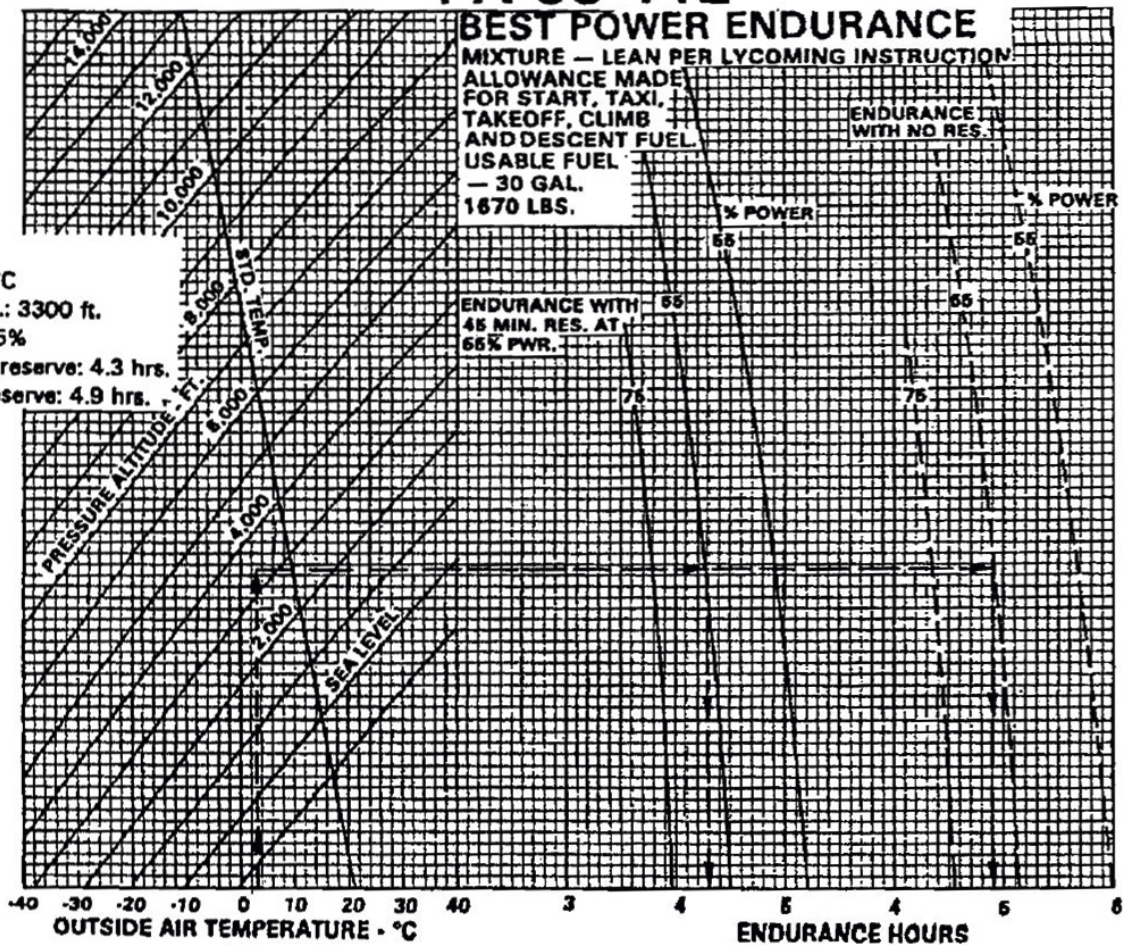
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BEST POWER ENDURANCE

MIXTURE — LEAN PER LYCOMING INSTRUCTION
 ALLOWANCE MADE FOR START, TAXI,
 TAKEOFF, CLIMB AND DESCENT FUEL.
 USABLE FUEL — 30 GAL.
 1670 LBS.

ENDURANCE WITH NO RES.

ENDURANCE WITH 45 MIN. RES. AT 65% PWR.



Example:

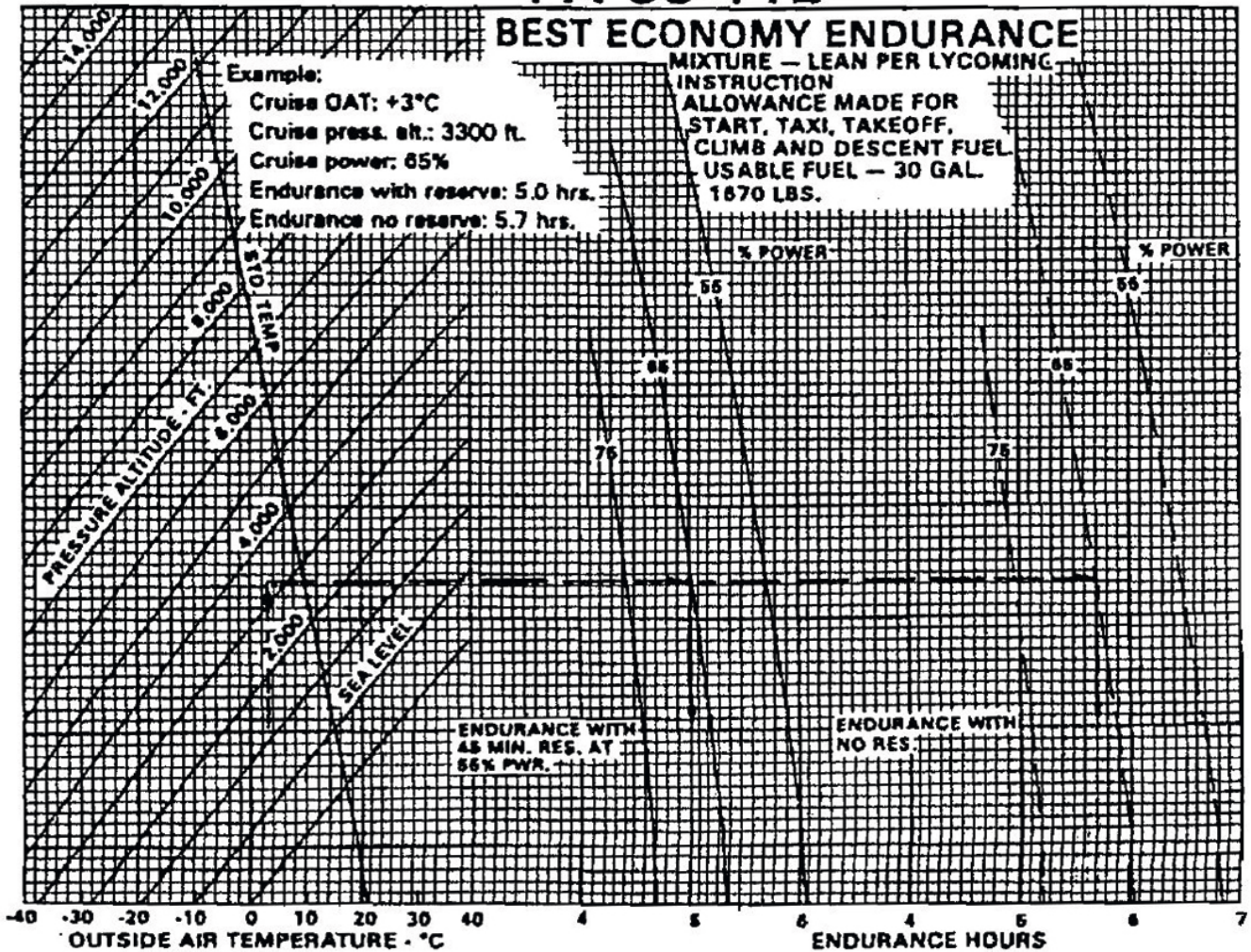
- Cruise OAT: +3°C
- Cruise press. alt.: 3300 ft.
- Cruise power: 65%
- Endurance with reserve: 4.3 hrs.
- Endurance no reserve: 4.9 hrs.

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BEST ECONOMY ENDURANCE

MIXTURE — LEAN PER LYCOMING INSTRUCTION
 ALLOWANCE MADE FOR START, TAXI, TAKEOFF, CLIMB AND DESCENT FUEL
 USABLE FUEL — 30 GAL. 1670 LBS.

Example:
 Cruise OAT: +3°C
 Cruise press. ht.: 3300 ft.
 Cruise power: 65%
 Endurance with reserve: 5.0 hrs.
 Endurance no reserve: 5.7 hrs.

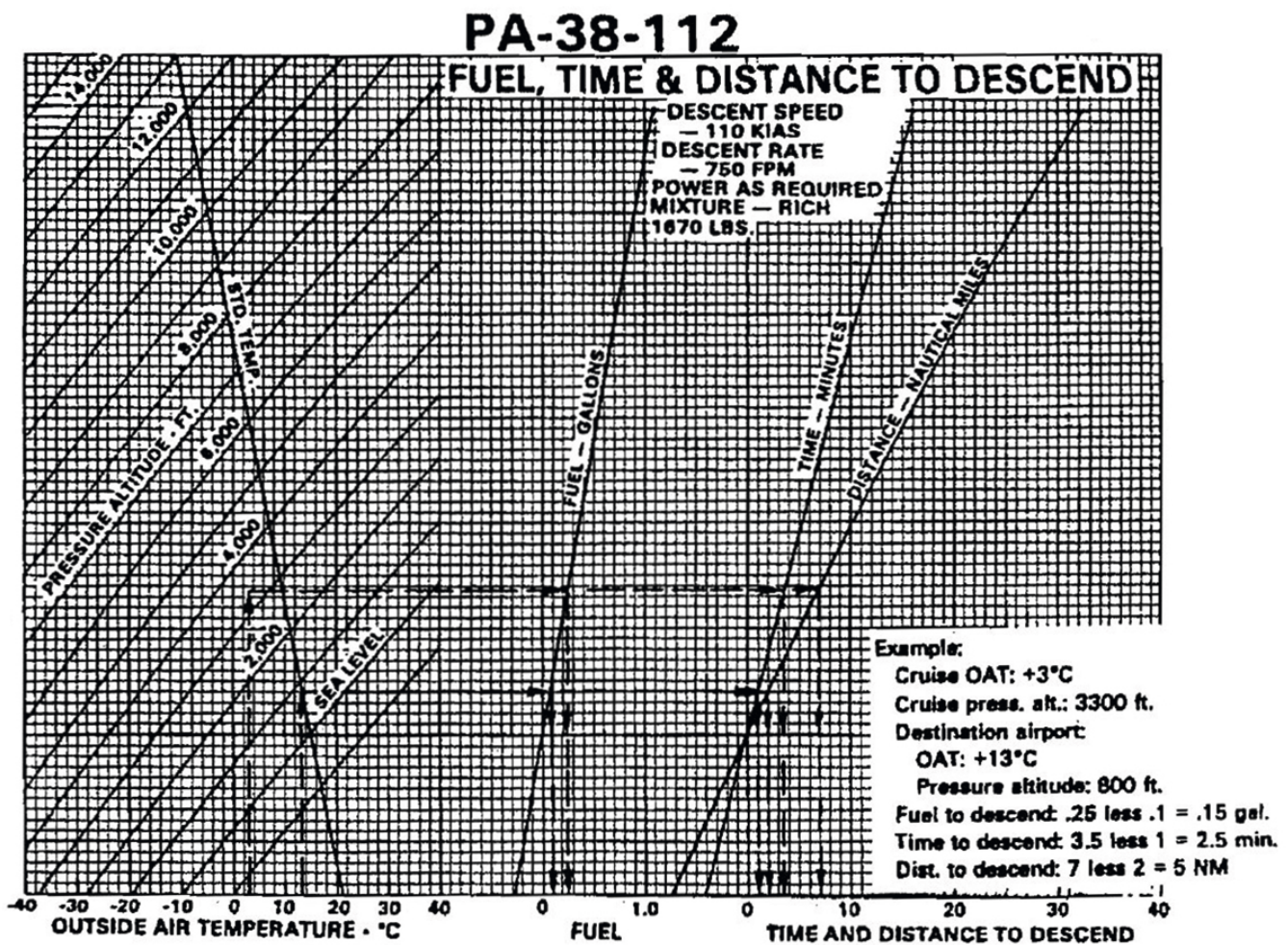


ENDURANCE WITH 45 MIN. RES. AT 65% PWR.

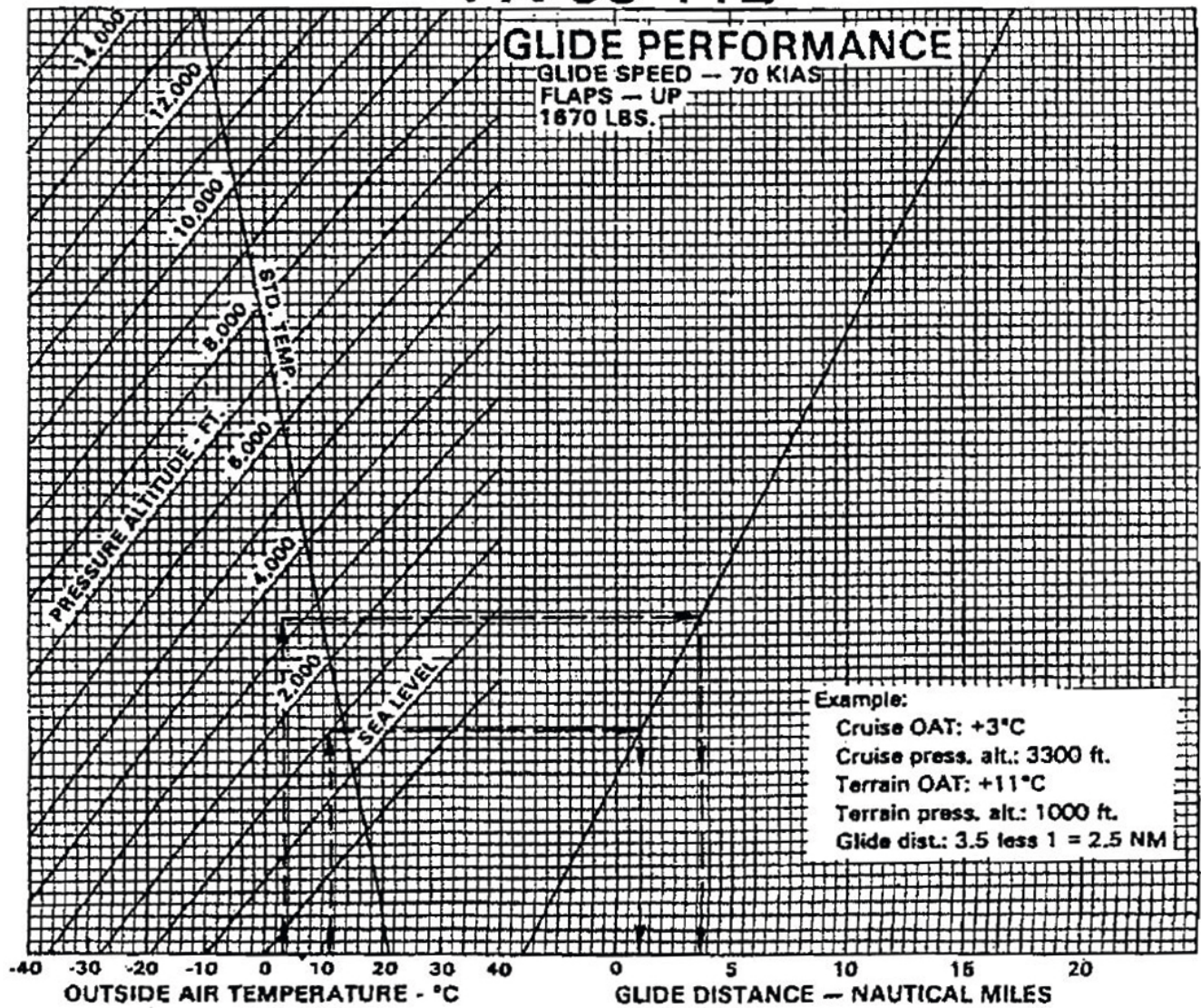
ENDURANCE WITH NO RES.

DESCENT PERFORMANCE

Fuel, time and distance to descend



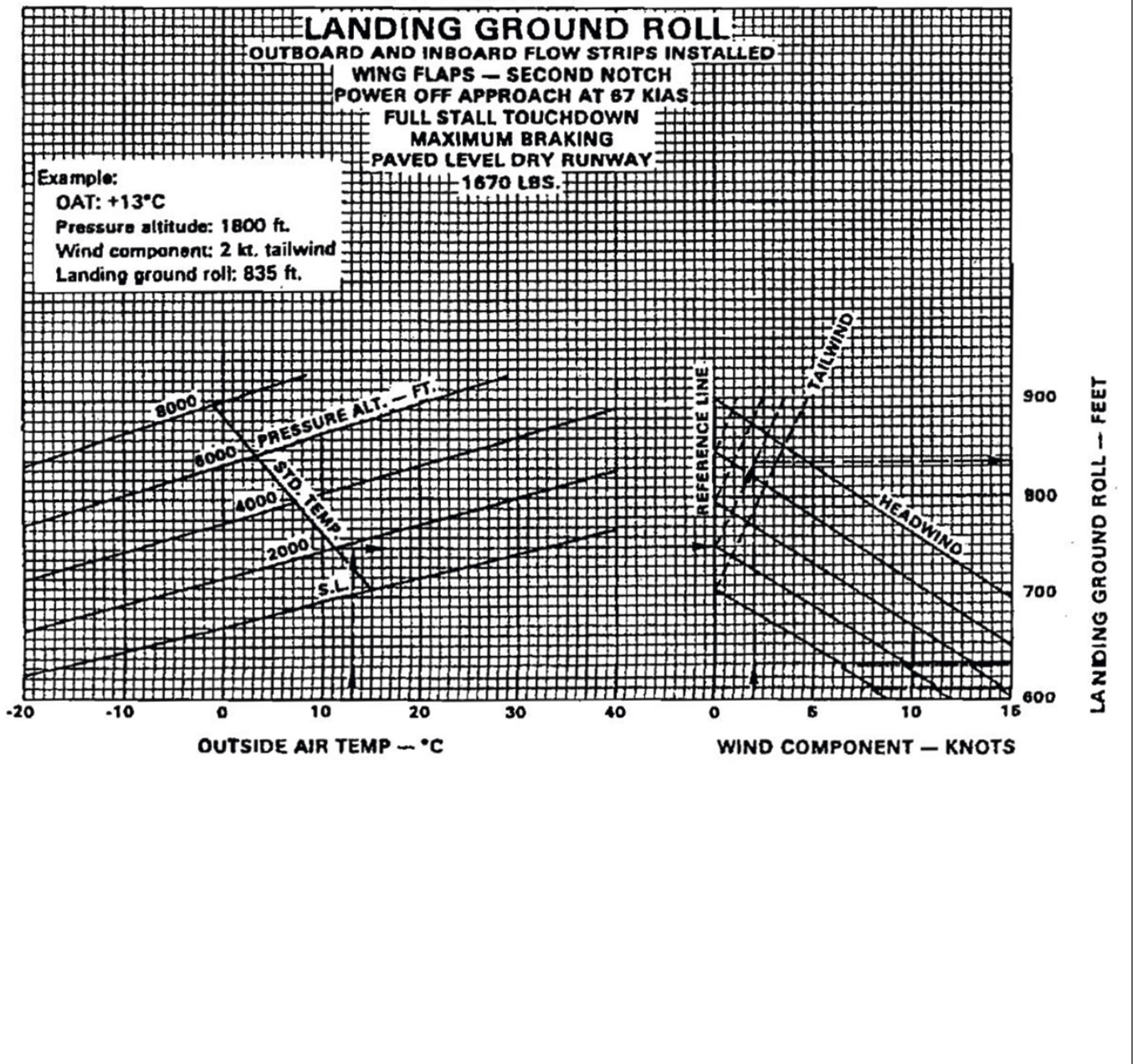
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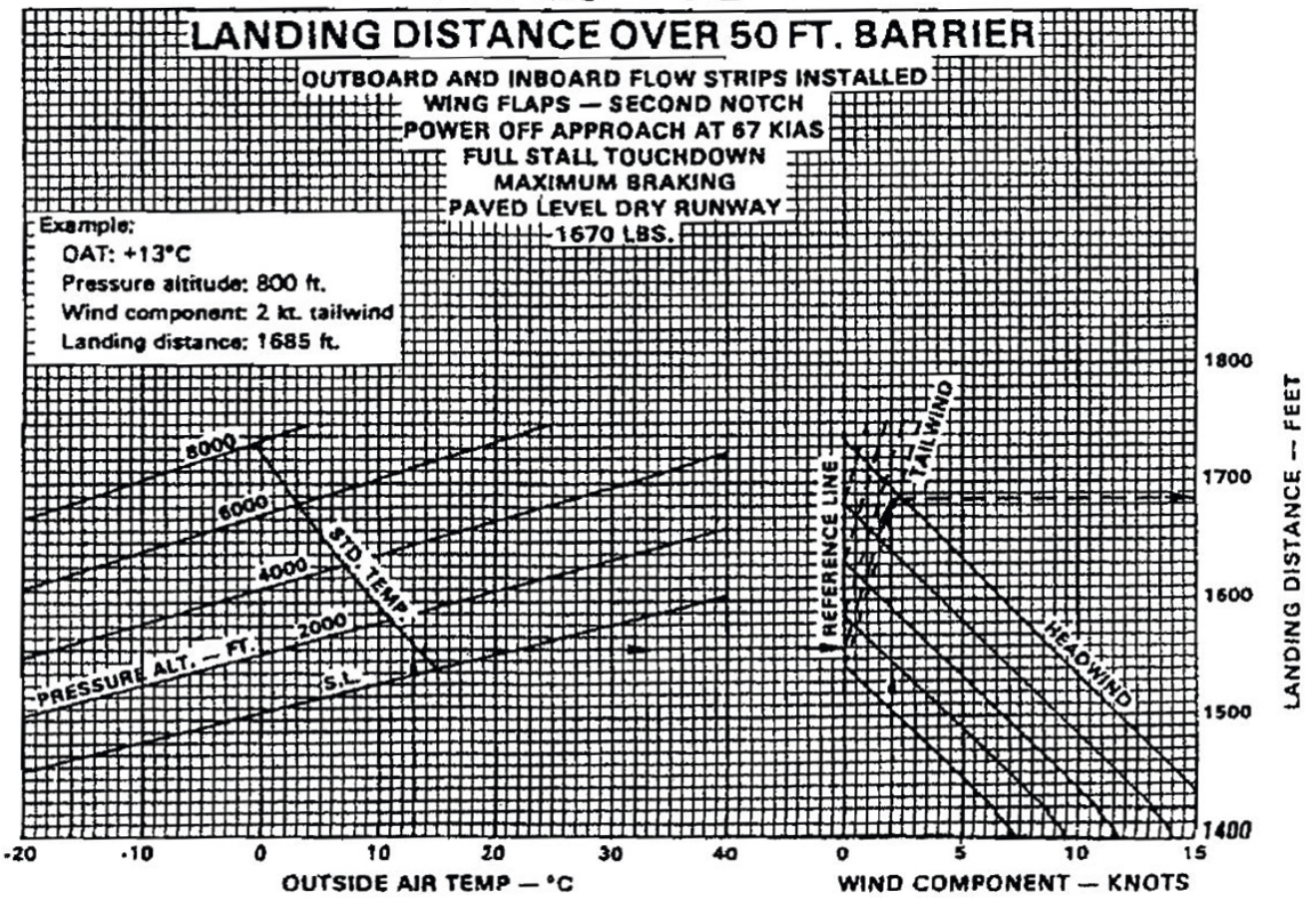
LANDING PERFORMANCE

Landing ground roll

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