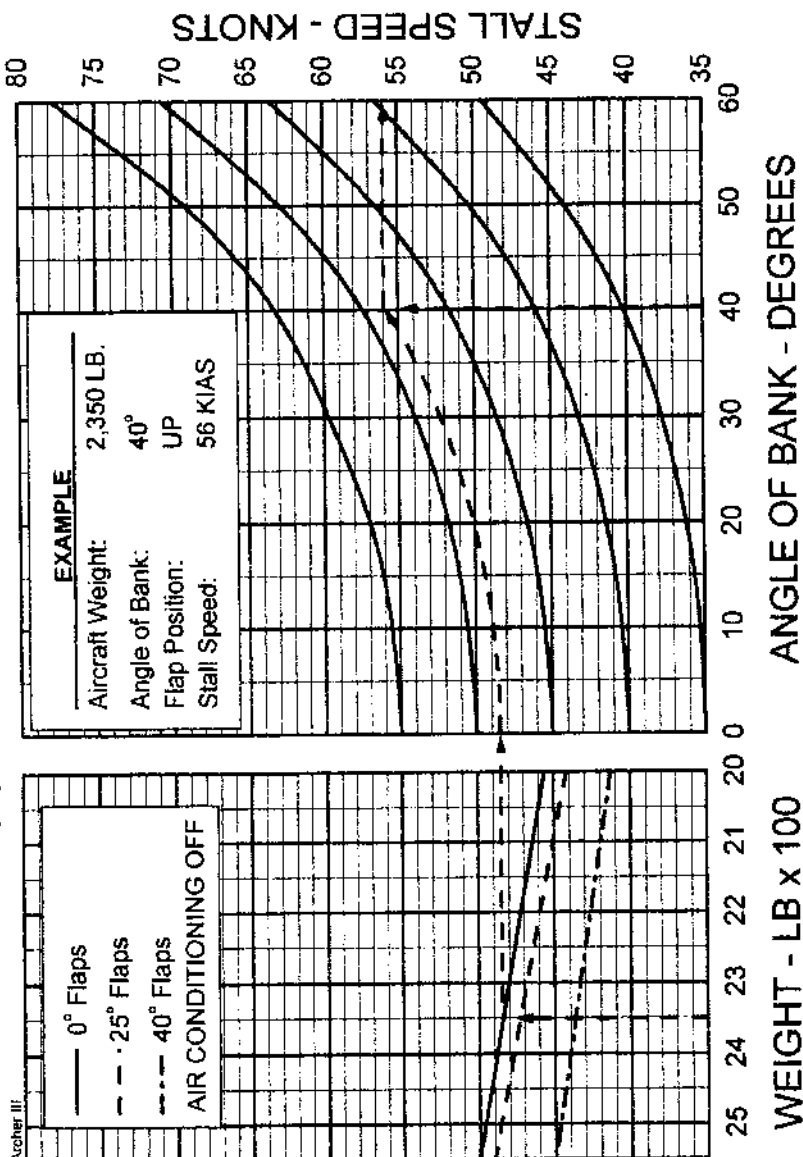


AIRSPEED SYSTEM CALIBRATION

Figure 5-3

## POWER OFF STALL SPEED



## STALL SPEEDS

Figure 5-5

FLAPS UP TAKEOFF PERFORMANCE

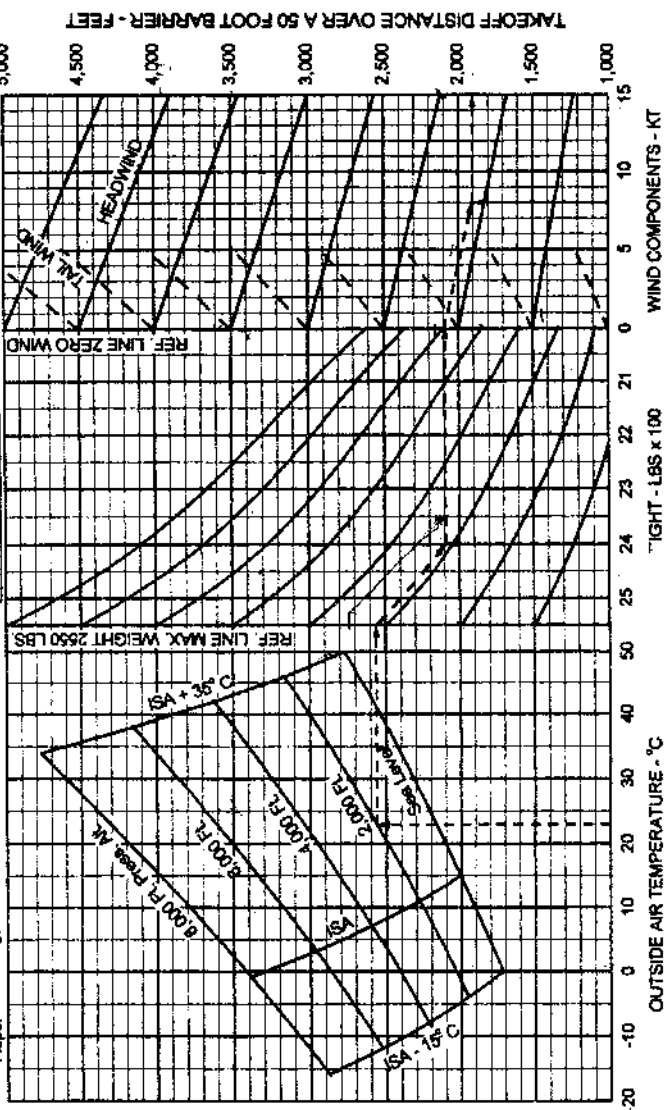
ASSOCIATED CONDITIONS:

- Power: FULL THROTTLE BEFORE BRAKE RELEASE
- Air Conditioner: OFF
- Runway: PAVED, LEVEL, & DRY
- Airspeed: REFER TO TABLE AT RIGHT
- Propeller: SENSENICH 78EARS14-0-82
- Flaps: UP

EXAMPLE:

- Depart Airport Pressure Alt: 2,000 FL
- Temperature: 23° C
- Gross Weight: 2,400 Lb.
- Headwind: 8 Kt
- Takeoff Distance: 1907 FL

WT	TAKEOFF SPEEDS	X/40	50 FT
	LIFTOFF		
2,560	60	65	
2,450	58	64	
2,350	57	63	
2,250	56	61	



FLAPS UP TAKEOFF PERFORMANCE

Figure 5-7

## FLAPS 25° TAKEOFF PERFORMANCE

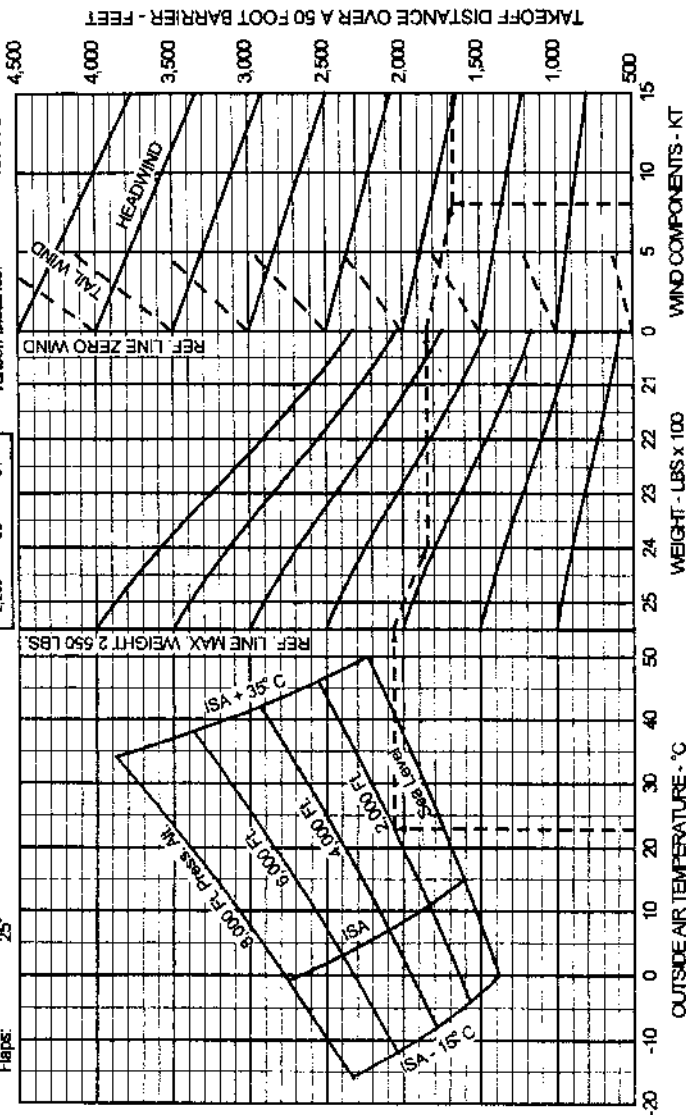
## ASSOCIATED CONDITIONS

Power: FULL THROTTLE BEFORE BRAKE RELEASE  
 Air Conditioner: OFF  
 Runway: PAVED, LEVEL, & DRY  
 Airspeed: REFER TO TABLE AT RIGHT  
 Propeller: SENSENICH 76BMS14-042  
 Flaps: 25°

## EXAMPLE

Depart Airport Pressure Alt: 2,000 FL  
 Temperature: 25° C  
 Gross Weight: 2,400 Lb.  
 Headwind: 8 Kt.  
 Takeoff Distance: 1674 FL

TAKEOFF SPEEDS		KIAS
WT.	LIFTOFF	50 FT
2,550	65	60
2,450	55	56
2,350	53	56
2,250	50	54



25° FLAPS TAKEOFF PERFORMANCE

Figure 5-9

FLAPS UP TAKEOFF GROUND ROLL

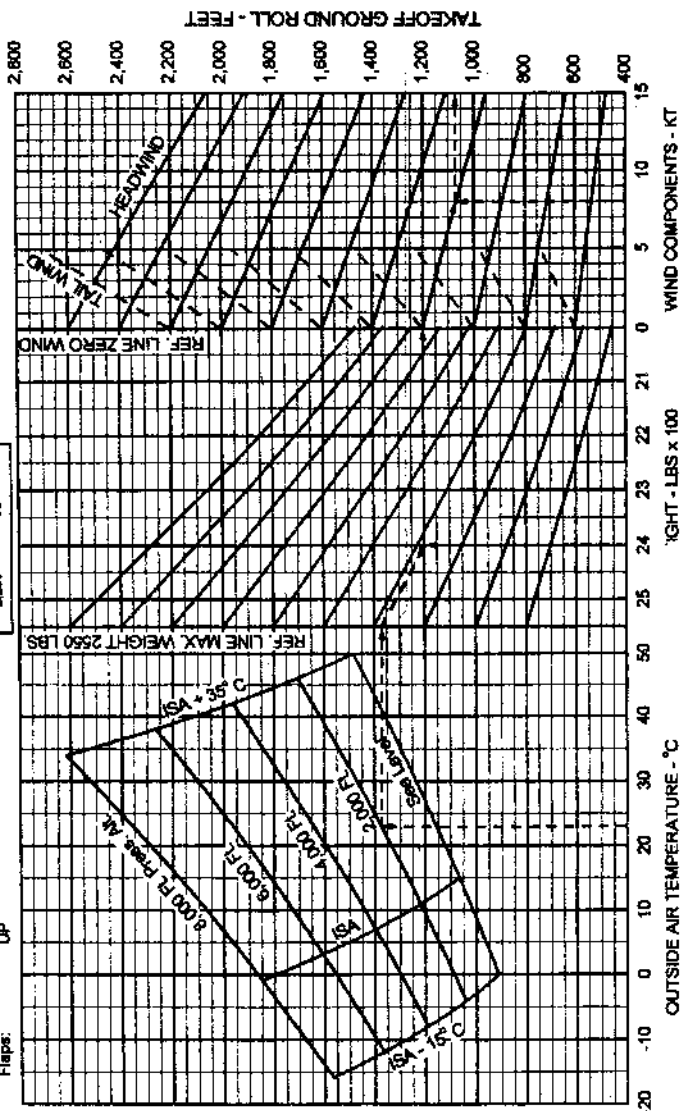
ASSOCIATED CONDITIONS:

Power: FULL THROTTLE BEFORE BRAKE RELEASE  
 Air Conditioner: OFF  
 Runway: PAVED, LEVEL, & DRY  
 Airspeed: REFER TO TABLE AT RIGHT  
 Propeller: SENSENICH 78EMBS14-0-82  
 Flaps: UP

EXAMPLE:

Depart Airport Pressure Alt: 2,000 FL  
 Temperature: 23° C  
 Gross Weight: 2,400 Lb.  
 Headwind: 8 KL  
 Takeoff Ground Roll: 1073 FL

TAKEOFF SPEEDS	WAS	LIFTOFF
WT	2,650	60
	2,450	58
	2,350	57
	2,250	56



FLAPS UP TAKEOFF GROUND ROLL

Figure 5-11

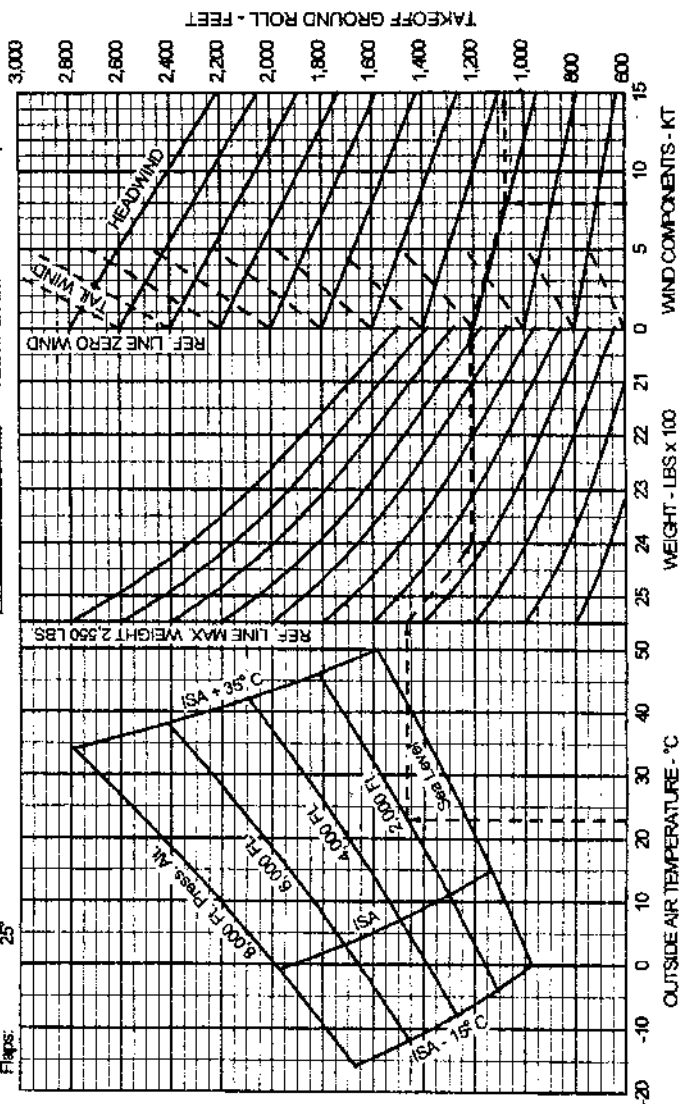
## FLAPS 25° TAKEOFF GROUND ROLL

## ASSOCIATED CONDITIONS

Power: FULL THROTTLE BEFORE BRAKE RELEASE  
 Air Conditioner: OFF  
 Runway: PAVED, LEVEL, & DRY  
 Airspeed: REFER TO TABLE AT RIGHT  
 Propeller: SENSENICH 76EMBS14-0-62  
 Flaps: 25°

TAKEOFF SPEEDS - KIAS	
WT	LIFTOFF
2,550	58
2,450	56
2,350	53
2,250	50

EXAMPLE  
 Depart Airport Pressure Alt: 2,000 Ft.  
 Temperature: 23° C  
 Gross Weight: 2,400 Lb.  
 Headwind: 8 Kt.  
 Takeoff Ground Roll: 1,071 Ft.



25° FLAPS TAKEOFF GROUND ROLL

Figure 5-13

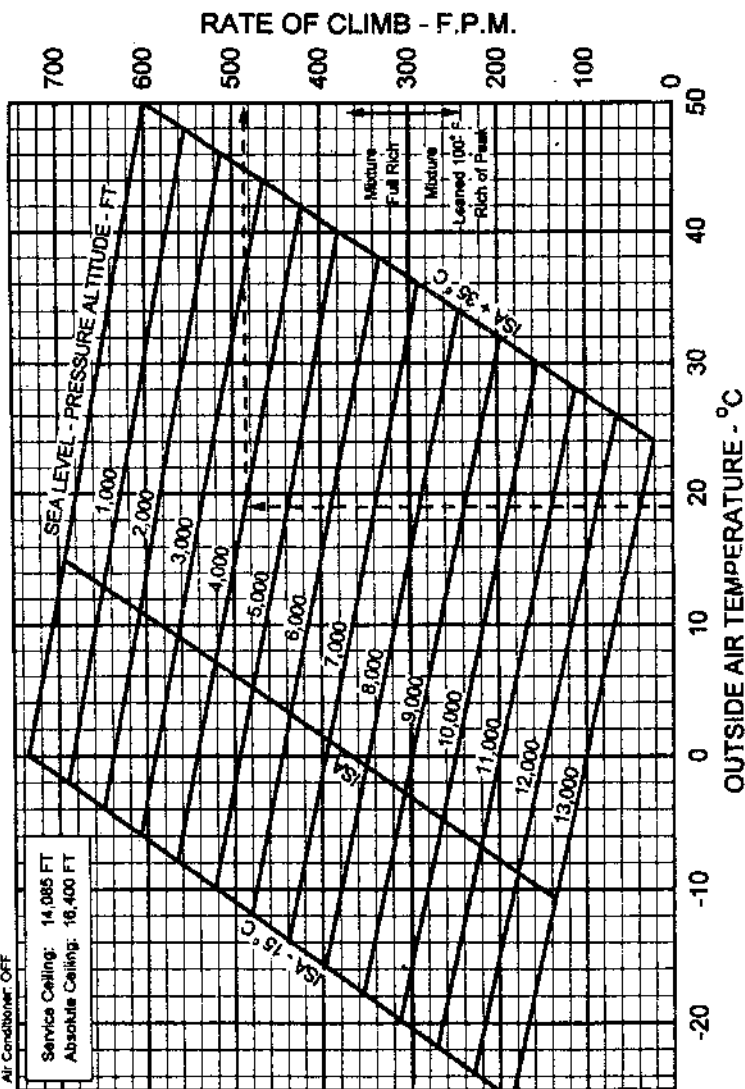
CLIMB PERFORMANCE

ASSOCIATED CONDITIONS:  
Gross Weight: 2850 LBS.  
Power: FULL THROTTLE  
Altitude: 76 KIAS  
Flaps: UP  
Air Conditioner: OFF

Service Ceiling: 14,085 FT  
Absolute Ceiling: 16,400 FT

EXAMPLE:

Climb Pressure Alt: 4000 FT  
Temperature: 19° C  
Rate of Climb: 487 F/Min.



CLIMB PERFORMANCE

Figure 5-15

# TIME, FUEL, DISTANCE TO CLIMB

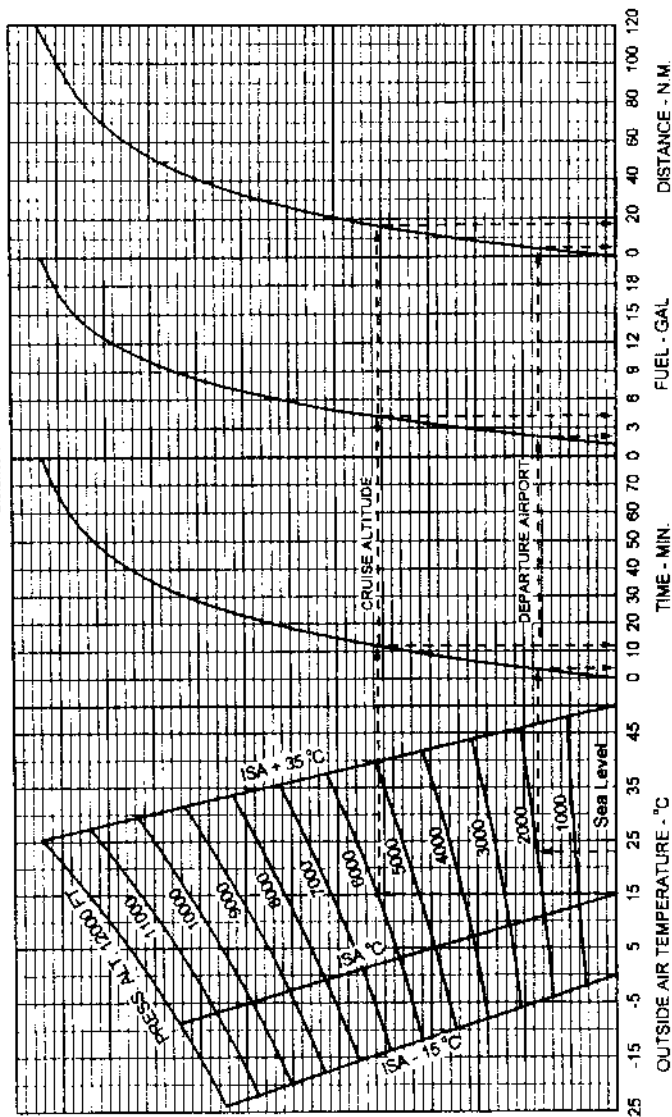
**EXAMPLE**

Depart Airport Press Alt.: 2000 FT    Temperature: 23 °C  
 Cruise Press Alt.: 6000 FT.    Cruise OAT: 15 °C  
 Time to Climb: 12 min. minus 3 min. = 9 min  
 Fuel to Climb: 4 gal. minus 2 gal. = 2 gal  
 Distance to Climb: 17 n.m. minus 5 n.m. = 12 n.m.

**ASSOCIATED CONDITIONS**

Gross Weight: 2550 LB    Flaps: UP  
 Power: FULL THROTTLE    Airspeed: 76 KIAS

NOTE: This chart includes fuel allowance for start, taxi, & takeoff.



TIME, DISTANCE AND FUEL TO CLIMB

Figure 5-17