

# **SECTION V**

## **PERFORMANCE**

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**BEECHCRAFT Baron 55, A55**  
**Serial TC-1 thru TC-501**

**Section V**  
**Performance**

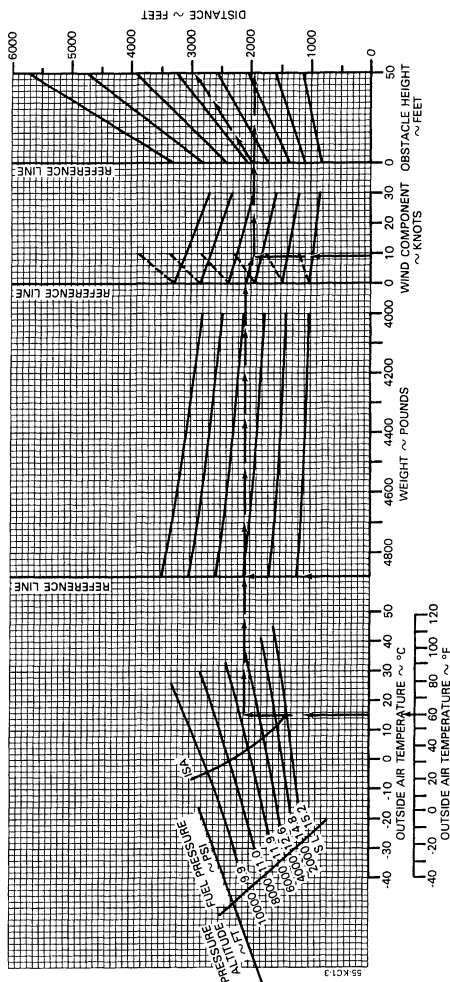
**TAKE-OFF DISTANCE**

**ASSOCIATED CONDITIONS:**

POWER TAKE-OFF POWER  
 MIXTURE SET BEFORE BRAKE RELEASE  
 FLAPS LEAN TO APPROPRIATE  
 LANDING GEAR FUEL PRESSURE  
 COWL FLAPS RETRACT AFTER POSITIVE  
 RUNWAY COWB ESTABLISHED  
 OPEN  
 PAVED, LEVEL, DRY SURFACE

**EXAMPLE:**

OAT 15°C (59°F)  
 PRESSURE ALTITUDE 5650 FT  
 TAKE-OFF WEIGHT 4880 LBS  
 HEADWIND COMPONENT 9.5 KTS  
 GROUND ROLL 1925 FT  
 TOTAL DISTANCE OVER OBSTACLE 2950  
 TAKE-OFF SPEED AT 50 FT 84 KTS (97 MPH)  
 LIFT-OFF 91 KTS (105 MPH)



# Section V Performance

# BEECHCRAFT Baron 55, A55 Serial TC-1 thru TC-501

## ACCELERATE - STOP DISTANCE

### ASSOCIATED CONDITIONS:

POWER 1. TAKE-OFF POWER SET  
ENGINE BRAKE  
RELEASE

FLAPS 2. ENGINE IDLE AT DECISION SPEED  
UP

RUNWAY PAVED, LEVEL, DRY SURFACE

COWL FLAPS OPEN

DECISION SPEED (ALL WEIGHTS)  
84 KTS (97 MPH)

### EXAMPLE:

|                          |                 |
|--------------------------|-----------------|
| OAT                      | 15°C (59°F)     |
| PRESSURE ALTITUDE        | 5650 FT         |
| TAKE-OFF WEIGHT          | 4880 LBS        |
| HEAD WIND                | 9.5 KTS         |
| ACCELERATE STOP DISTANCE | 4030 FT         |
| DECISION SPEED           | 84 KTS (97 MPH) |

