

# PA-44-180

## NORMAL PROCEDURE TAKEOFF GROUND ROLL

WING FLAPS 0°

2700 RPM & FULL THROTTLE BEFORE BRAKE RELEASE  
PAVED LEVEL DRY RUNWAY  
COWL FLAPS OPEN

Example:

Airport press. alt.: 680 ft.  
Outside air temp.: 8°C  
Wind component: 6 kt. headwind  
Weight: 3430 lbs.  
Takeoff ground roll: 920 ft.

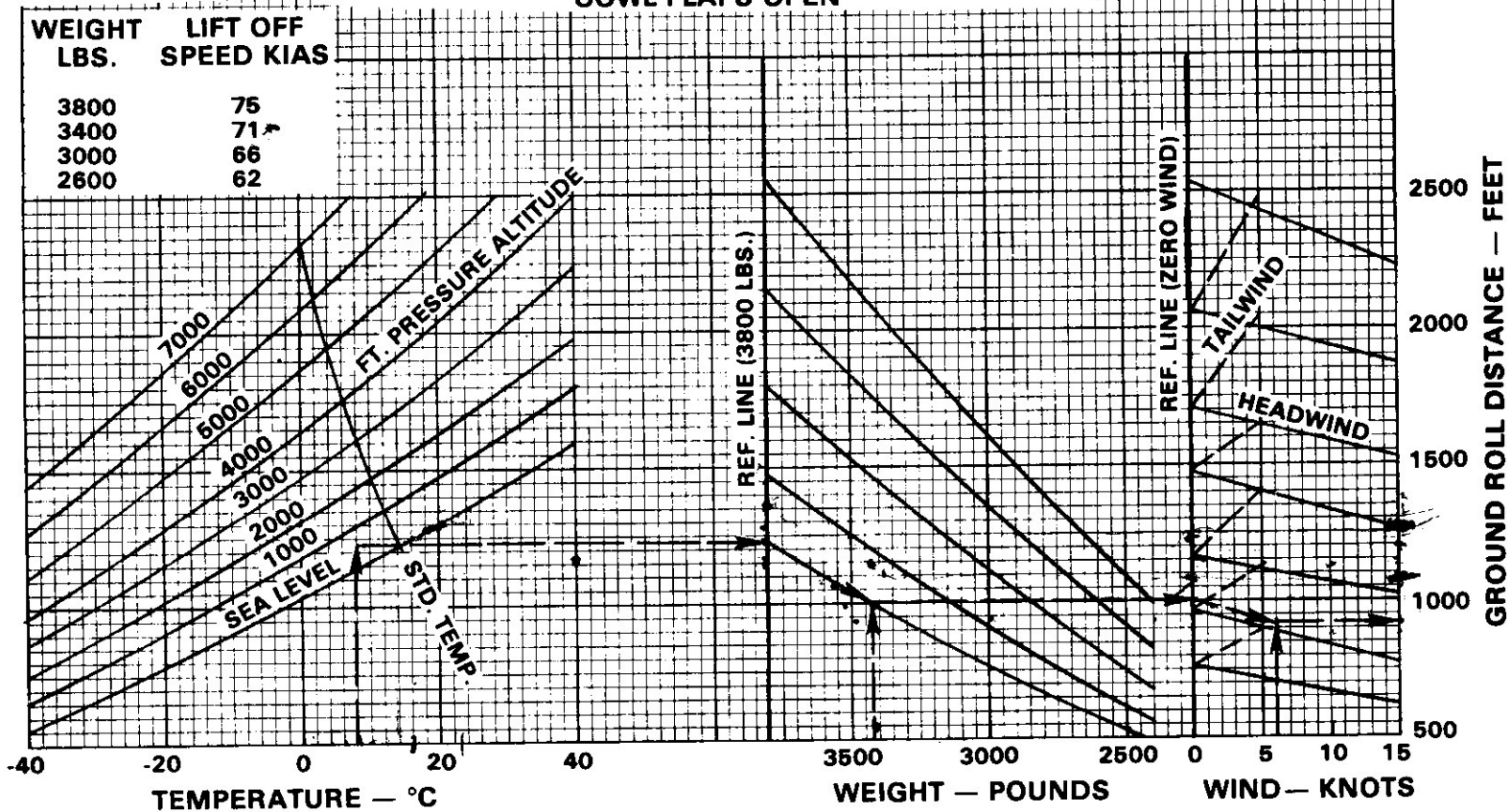


Figure 5-9

NORMAL PROCEDURE TAKEOFF GROUND ROLL (0° FLAPS)

# PA-44-180

## NORMAL PROCEDURE TAKEOFF DISTANCE OVER 50 FT. BARRIER

2700 RPM & FULL THROTTLE BEFORE BRAKE RELEASE

WING FLAPS 0°

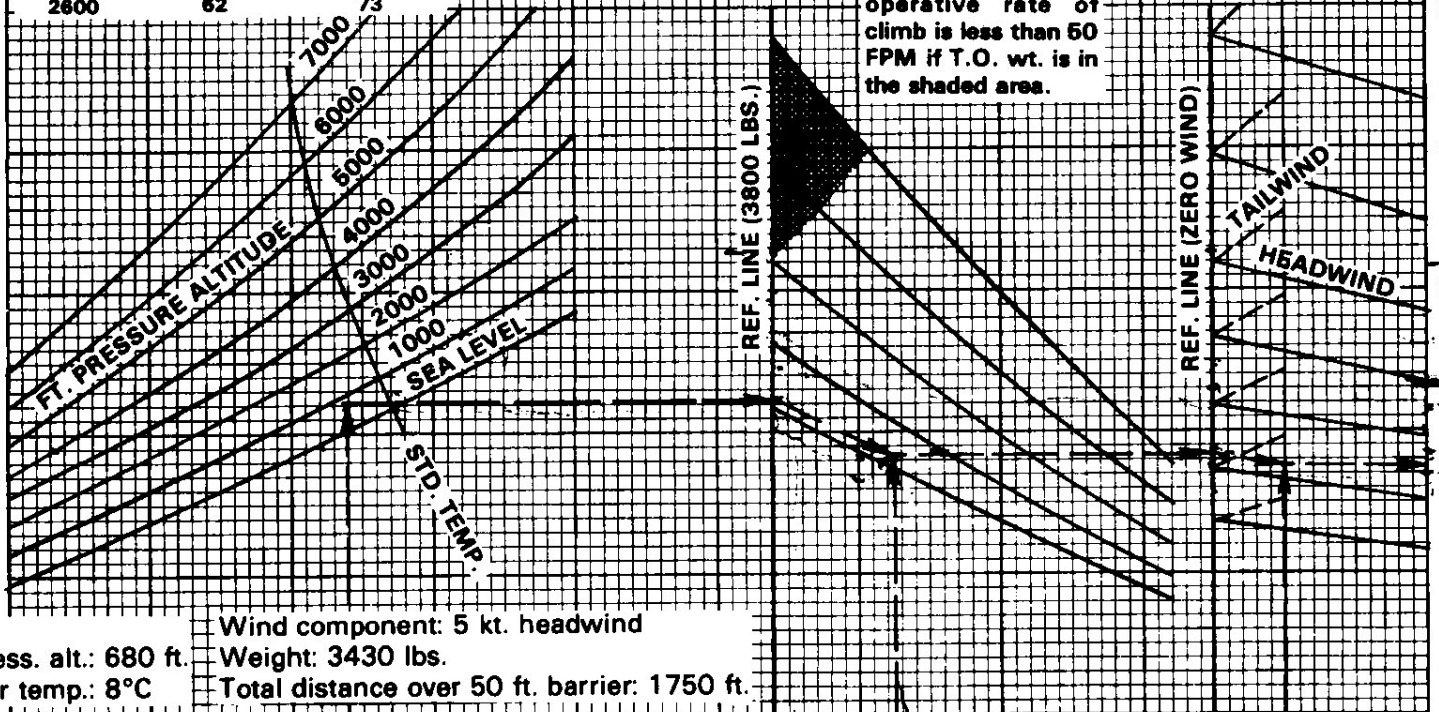
PAVED LEVEL DRY RUNWAY

| WEIGHT<br>POUNDS | LIFT OFF<br>SPEED KIAS | BARRIER<br>SPEED KIAS |
|------------------|------------------------|-----------------------|
| 3800             | 76                     | 88                    |
| 3400             | 71                     | 83                    |
| 3000             | 66                     | 78                    |
| 2600             | 62                     | 73                    |

|      |    |    |
|------|----|----|
| 3800 | 76 | 88 |
| 3400 | 71 | 83 |
| 3000 | 66 | 78 |
| 2600 | 62 | 73 |

### CAUTION

Best one engine in-  
operative rate of  
climb is less than 50  
FPM if T.O. wt. is in  
the shaded area.



Example:  
Airport press. alt.: 680 ft. Wind component: 5 kt. headwind  
Outside air temp.: 8°C Weight: 3430 lbs.  
Total distance over 50 ft. barrier: 1750 ft.

TAKEOFF DISTANCE OVER 50 FT. BARRIER — FEET

OUTSIDE AIR TEMPERATURE — °C

WEIGHT — POUNDS

WIND — KNOTS

NORMAL PROCEDURE TAKEOFF DISTANCE OVER 50 FT.

BARRIER (0° FLAPS)

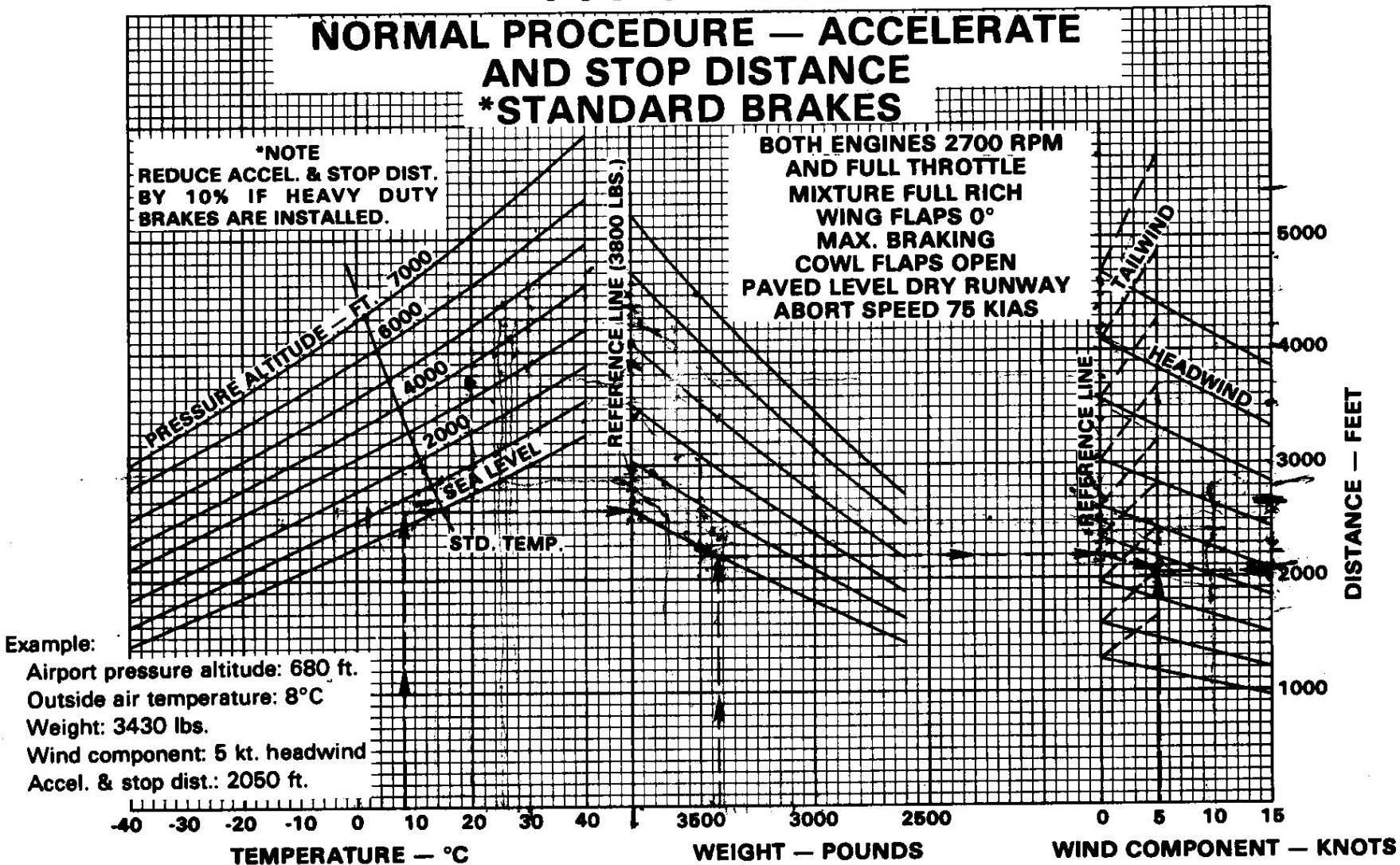
Figure 5-11

# PA-44-180

## NORMAL PROCEDURE — ACCELERATE AND STOP DISTANCE \*STANDARD BRAKES

\*NOTE  
REDUCE ACCEL. & STOP DIST.  
BY 10% IF HEAVY DUTY  
BRAKES ARE INSTALLED.

BOTH ENGINES 2700 RPM  
AND FULL THROTTLE  
MIXTURE FULL RICH  
WING FLAPS 0°  
MAX. BRAKING  
COWL FLAPS OPEN  
PAVED LEVEL DRY RUNWAY  
ABORT SPEED 75 KIAS



NORMAL PROCEDURE - ACCELERATE AND STOP DISTANCE  
Figure 5-5

# PA-44-180

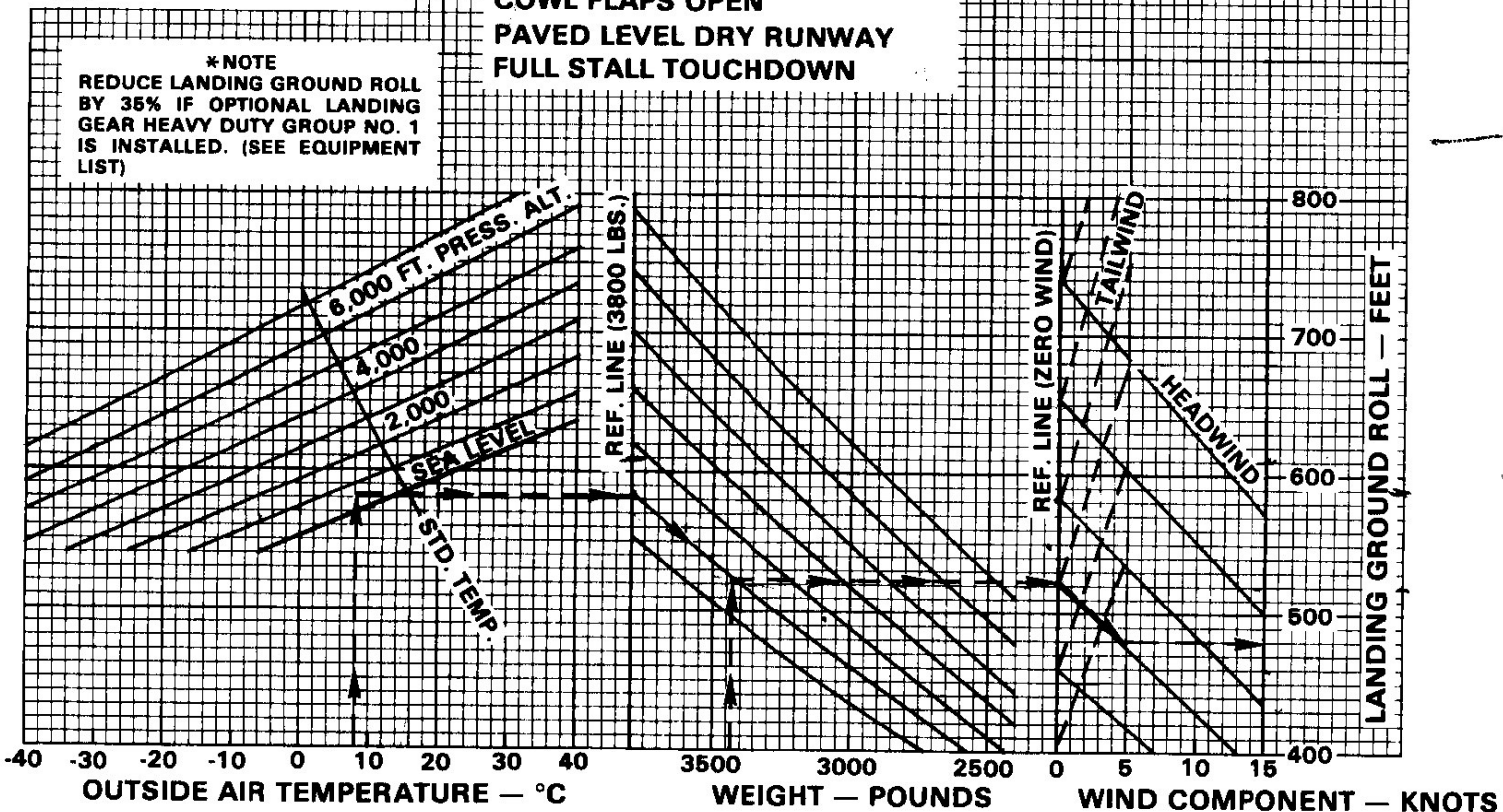
## LANDING GROUND ROLL \*STANDARD BRAKES SHORT FIELD EFFORT

WING FLAPS 40° — POWER OFF  
COWL FLAPS OPEN  
PAVED LEVEL DRY RUNWAY  
FULL STALL TOUCHDOWN

Example:

Airport press. alt.: 680 ft.  
Outside air temp.: 8°C  
Wind component: 5 kts. headwind  
Weight: 3430 lbs.  
Landing ground roll: 480 ft.

\* NOTE  
REDUCE LANDING GROUND ROLL  
BY 35% IF OPTIONAL LANDING  
GEAR HEAVY DUTY GROUP NO. 1  
IS INSTALLED. (SEE EQUIPMENT  
LIST)



## LANDING GROUND ROLL

Figure 5-43

# PA-44-180

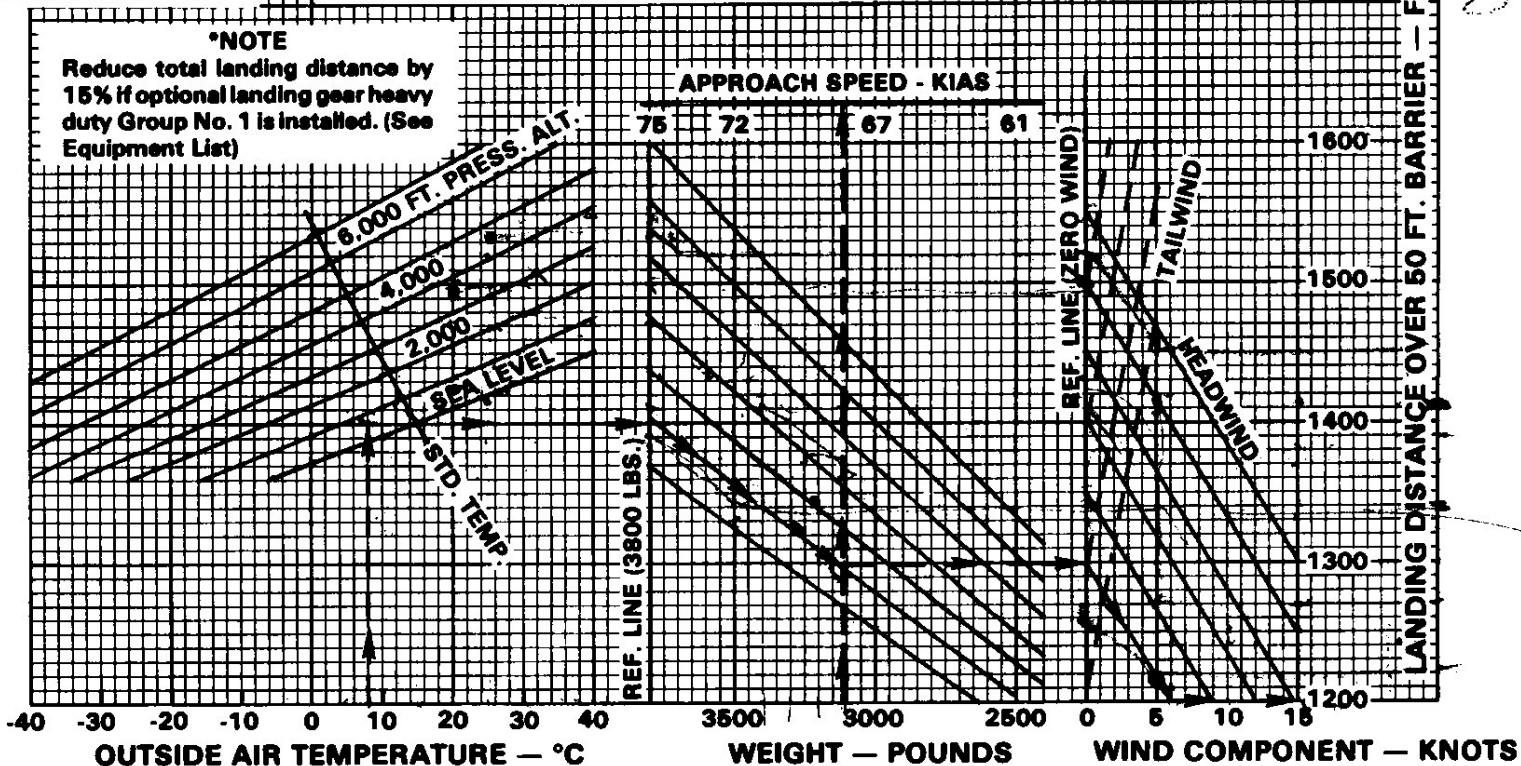
## LANDING DISTANCE OVER 50 FT. BARRIER

### \*STANDARD BRAKES SHORT FIELD EFFORT

WING FLAPS 40° — POWER OFF — COWL FLAPS OPEN  
PAVED LEVEL DRY RUNWAY  
FULL STALL TOUCHDOWN  
APPROACH SPEED AS SCHEDULED

Example:

Airport press. alt.: 680 ft.  
Outside air temp.: 8°C  
Wind component: 6 kts. headwind  
Weight: 3107 lbs.  
Approach speed: 68 KIAS  
Total landing distance: 1200 ft.



50'

LANDING DISTANCE OVER 50 FT. BARRIER

Figure 5-45