



N427R WEIGHT AND BALANCE

	Weight Pounds (lb)	Arm Inches (in)	Moment lbin.
Empty Aircraft	862.40	16.88 (Empty CG)	14,560
Pilot and Passenger		27.6	
Baggage Compartment A		51.6	
Baggage Compartment B		70.9	
Wing Lockers		23.6	
Fuel Tanks		7.1	
Total Weight		Total Moment	

Total Moment ÷ Total Weight = CG

CG =

Instructions:

1. Add the weights of all the things loaded into the aircraft to the empty weight of the aircraft. This gives you your total weight.
2. Calculate the moment of each item loaded into the aircraft. (Weight x Arm)
3. Add the moments together including the moment of the empty aircraft.
4. Divide the total moments by the total weights to calculate your Center of Gravity. (CG)

NOTE:

Fuel Weights 6 lbs/gallon

Max Takeoff Weight: 1,320 lb

Max Weight in Baggage Compartments A & B: 40 lb

Max Weight in wing lockers: 88 lb

Operating CG Range: 16 – 22.5 inches aft of datum

This maximum gross weight of 1320 lbs must be never exceeded!