N75179 PA28-181
WEIGHT & BALANCE

RAM Aviation
Live your Dream

Max Gross Weight: 2550 LBS

Useful Load: 920 LBS

Basic Empty Weight (N75179): 1630 LBS

Useable Fuel: 48 GAL (288 LBS)

Weight x Arm = Moment (divide by 1000 for smaller numbers)

Moment divided by Weight = Center of Gravity x 1000 = C.G.

Weight and Balance Example:

	WEIGHT	X	ARM	=	MOMENT/1000
Basic Empty Weight	1630.00	X	88.49	=	144.24
Pilot and Front Pass	350	X	80.50	=	28.18
Rear Passengers	150	X	118.10	=	17.72
Baggage Area	10	X	142.80	=	1.43
Fuel	180	X	95.00	=	17.10
Ramp Weight/Mom	2310.00				208.67
Taxi/Run-Up	-6.0	X	95.00	=	-0.57
Takeoff Weight	2304.00				208.10
Takeoff C.G.	90.32	Refer to Section 6 of the POH			
En-route Fuel Burn	-72.0	X	95.00	=	-6.84
Landing Weight	2232.00				201.26
Landing C.G.	90.17	Refer to Section 6 of the POH			

	WEIGHT	X	ARM	=	MOMENT/1000
Basic Empty Weight	1630.00	X	88.49	=	144.24
Pilot and Front Pass		X	80.50	=	
Rear Passengers		X	118.10	=	
Baggage Area		X	142.80	=	
Fuel		X	95.00	=	
Ramp Weight/Mom					
Taxi/Run-Up	-6.0	X	95.00	=	
Takeoff Weight					
Takeoff C.G.		Refer to Section 6 of the POH			
En-route Fuel Burn		X	95.00	=	
Landing Weight					
Landing C.G.		Refer to Section 6 of the POH			

Take Off Distance (Ground Run): _____

Take Off Distance (Over 50' Obstacle): _____

Vy: _____ Vx: _____

Landing Distance (Normal): _____

Landing Distance (Over 50' Obstacle): _____

	KTS	GAL/Hr	LBS/Hr	RATE
CLIMB to 1000’	76	12.0	72.0	700 FPM
CRUISE	115	10.5	63.0	0
DESCENT	120	9.0	54.0	500 FPM

PROFILE & V-SPEEDS:

KIAS	
Vso	47
Vs	54
Vr	52-65
Vx	64
Vy	76
Vfe	102
Vno	125
Vne	154
Va	
#2550	110
#2000	97
Best Glide	76
Max X-wind	17
Normal App. Speed	66
Short App. Speed	62
Enroute Climb	87

WEIGHT AND BALANCE: