

N7664J
ARROW PA28R/180
WEIGHT & BALANCE



Max Gross Weight: 2500.00 LBS

Useful Load: 991.15 LBS

Basic Empty Weight (N5035S): 1508.95 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	1508.95	X	84.26	=	127.14
Pilot/Passenger	405	X	85.5	=	34.63
Rear Passengers	170	X	118.1	=	20.08
Baggage Area	50	X	142.8	=	7.14
Fuel	288	X	95.0	=	27.36
Ramp Weight/Mom	2421.95				216.35
Taxi/Run-Up	-3.5	X	95.0	=	-0.3325
Takeoff Weight	2418.45				216.02
Takeoff C.G.	89.32	Refer to Section 6 of the POH			
En-route Fuel Burn	-180	X	95.0	=	-17.1
Landing Weight	2238.45				198.92
Landing C.G.	88.87	Refer to Section 6 of the POH			

N7664J
ARROW PA28R/180
WEIGHT & BALANCE



	WEIGHT	X	ARM	=	MOMENT/1000
Basic Empty Weight	1508.95	X	84.26	=	127.14
Pilot/Passenger		X	85.5	=	
Rear Passengers		X	118.1	=	
Baggage Area		X	142.8	=	
Fuel		X	95.0	=	
Ramp Weight/Mom					
Taxi/Run-Up	-3.5	X	95.0	=	-0.3325
Takeoff Weight					
Takeoff C.G.		Refer to Section 6 of the POH			
En-route Fuel Burn		X	95.0	=	
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): _____

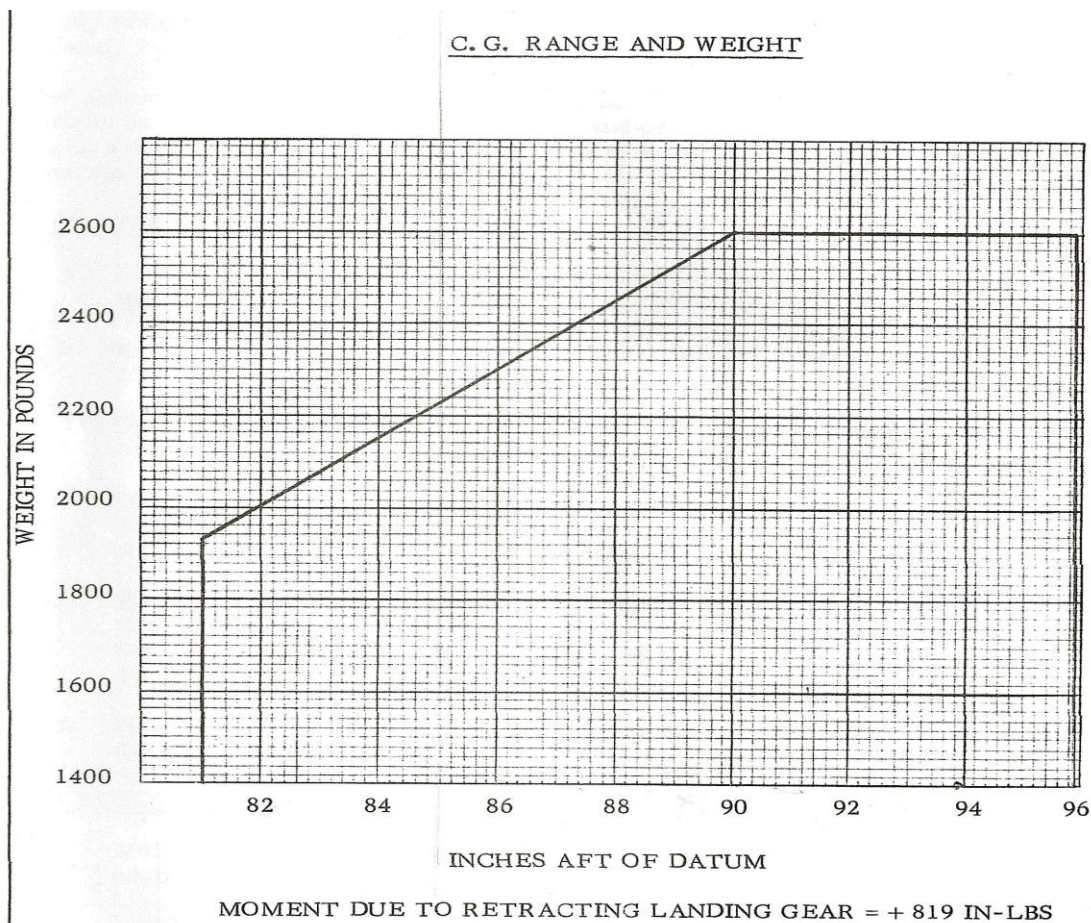
N7664J
ARROW PA28R/180
WEIGHT & BALANCE



Arrow Profile (MPH):

	SPEED	GAL/Hr	LBS/Hr	RATE
CLIMB to 1000'	100	15.0	90.0	1000 FPM
CLIMB After 1000'	110	12.0	72.0	500 FPM
CRUISE	125	10.0	60.0	0
DESCENT	145	8.0	48.0	500 FPM

Arrow C.G. Envelope:



N7664J
ARROW PA28R/180
WEIGHT & BALANCE

Compass Card:

For	Steer	For	Steer	For	Steer
N	004	30	032	60	058
E	086	120	118	150	150
S	182	210	212	240	242
W	273	300	303	330	333

DATE: