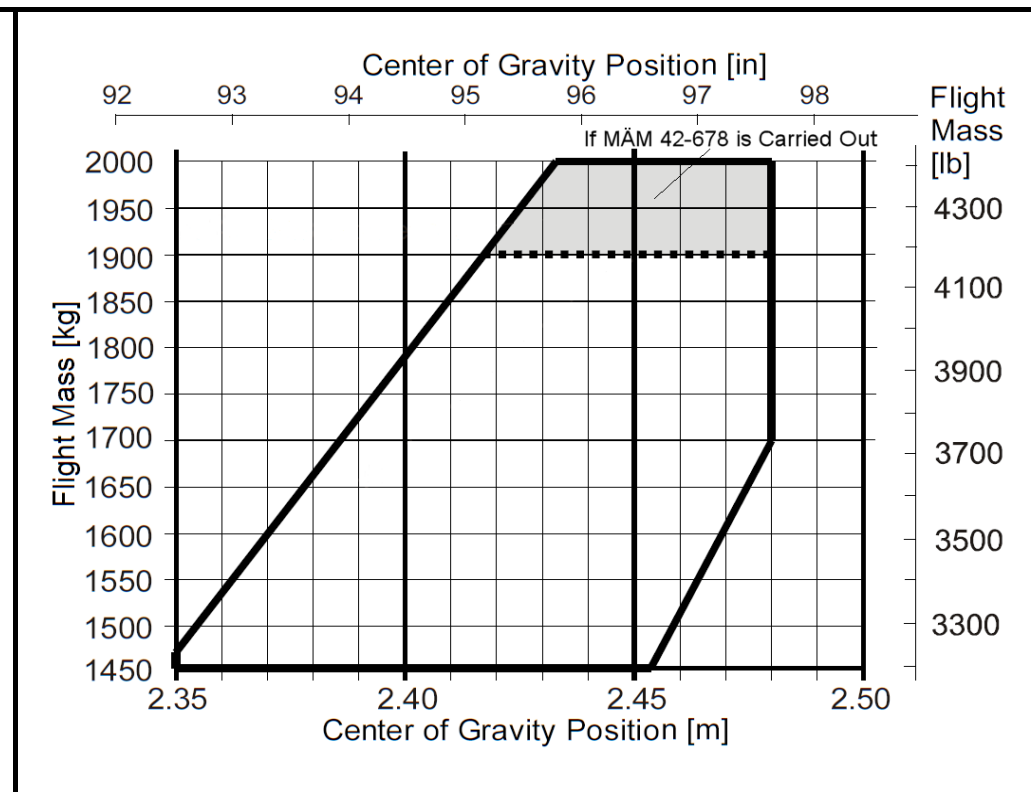


Mass & Balance Sheet and Performance Calculations for DA42-NG Rev 2.3

Date: _____	Tail Number: _____	Callsign: _____	Route: _____
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	Mass (Kg)	Lever arm (m)	Moment (Kg/m)
Empty Mass			
Front Seats		2.300	
Rear Seats		3.250	
Nose Baggage		0.600	
Cabin Baggage		3.890	
Baggage Extension		4.540	
De-Icing Fluid		1.000	
Zero Fuel Mass			
Main Fuel		2.630	
Aux Fuel		3.200	
Taxi Fuel	- 1.28	2.630	- 3.366
Takeoff Mass			
Trip Fuel Used (Main)	-	2.630	-
Trip Fuel Used (Aux)	-	3.200	-
Landing Mass			
1USG = 3.785L 1USG JET-A1 = 3.18Kg Main - 159Kg Aux - 84Kg			



T/O Distance:		Meters	(Ground roll Over 50ft. Obstacle ; Flaps UP)	V Speeds			
All Engines Climb:		Ft'/Min	(Flaps Up)	V _R		V _{S1}	
1 Engine Inop. Climb:		Ft'/Min	(Flaps & Gear UP, 92%, Feathered) - 1000ft 5000ft 8000ft	V _X		V _S	
LDG Distance:		Meters	(Ground roll Over 50 ft. obstacle)	V _Y		V _{S0}	
Accelerate-Stop:		Meters	[T/O Ground Roll + 85m + LDG Ground Roll]	V _O		V _{MCA}	

Fuel Calculations		Local - 60% @ 10.4 GPH (2 Engines) Traffic Pattern - 55% @ 9.6 GPH (2 Engines)				Name	Mass (Kg)	PIC Approval	
		Reserve	Extra	Minimum Fuel Required					
Time	Trip (Block Time)				Front Seats	Instructor		License Nº:	
						Student			
USG					Rear Seats	Observer		Signature:	
Kg						Bags			