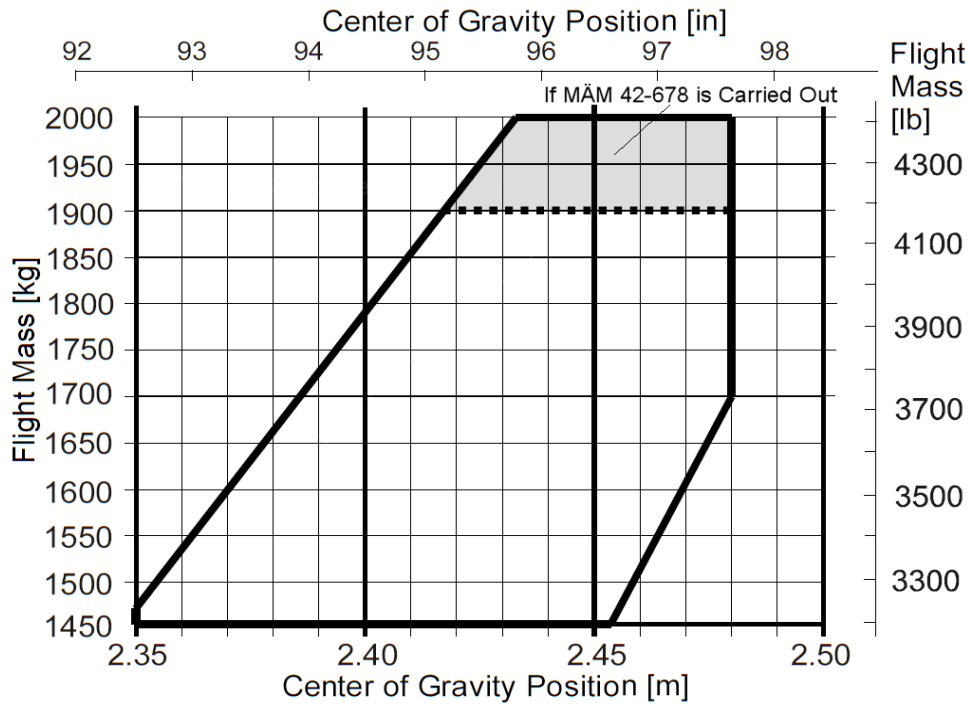
Mass & Balance Sheet and Performance Calculations for DA42-NG Rev 2.3

Date: _____ Tail Number: _____ Callsign: _____ Route: _____

	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)
All Engines Climb:		Ft'/Min	(Flaps Up)
1 Engine Inop. Climb:	| |	Ft'/Min	(Flaps & Gear UP, 92%, Feathered) - 1000ft|5000ft|8000ft
LDG Distance:	|	Meters	(Ground roll | Over 50 ft. obstacle)
Accelerate-Stop:		Meters	[T/O Ground Roll + 85m + LDG Ground Roll]

V Speeds			
V_R		V_{S1}	
V_X		V_S	
V_Y	|	V_{S0}	
V_O		V_{MCA}	|

Fuel Calculations		Local - 60% @ 10.4 GPH (2 Engines) Traffic Pattern - 55% @ 9.6 GPH (2 Engines)		
	Trip (Block Time)	Reserve	Extra	Minimum Fuel Required
Time				
USG				
Kg				

		Name	Mass (Kg)
Front Seats	Instructor		
	Student		
Rear Seats	Observer		
	Bags		

PIC Approval	
License Nº:	
Signature:	

APEX Flight Academy FOM Appendix 6