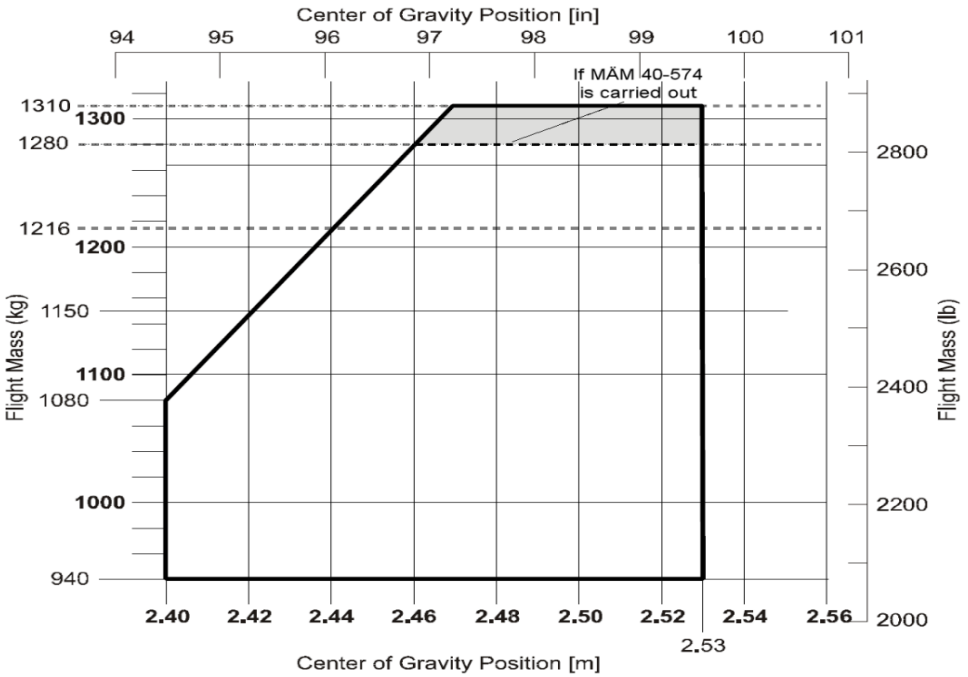
Mass & Balance Sheet and Performance Calculations for DA40-NG Rev 2.3

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

	Mass (Kg)	Lever arm (m)	Moment (Kg/m)
Empty Mass			
Front Seats		**2.300**	
Rear Seats		**3.250**	
Std. Baggage		**3.650**	
Short Extension		**3.970**	
Baggage Ext. FWD		**3.890**	
Baggage Ext. AFT		**4.540**	
Zero Fuel Mass			
Fuel Carried		**2.630**	
Taxi Fuel	**- 0.64**	**2.630**	**- 1.683**
Takeoff Mass			
Trip Fuel Used	-	**2.630**	-
Landing Mass			

1USG = 3.785L 1USG JET-A1 = 3.18Kg Std - 89Kg LR - 124Kg



				V Speeds			
T/O Distance:	|	Meters	(Ground roll | Over 50ft. Obstacle ; Without fairings)	V_R		V_O	
Initial Climb Rate:		Ft'/Min	(Without fairings)	V_{50}		V_S UP	
Cruise Climb Rate:		Ft'/Min	(Without fairings)	V_Y		V_S T/O	
LDG Distance:	|	Meters	(Ground roll | Over 50 ft. obstacle)	V_{REF}	-	V_{S0}	
Accelerate-Stop:		Meters	[T/O Ground Roll + 70m + LDG Ground Roll]				

Fuel Calculations		Local - 70% @ 6.1 GPH Traffic Pattern - 60% @ 5.1 GPH		
	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 5