

From: [REDACTED]
To: [REDACTED]
Subject: Weight and Balance Information
Date: Thursday, October 19, 2023 7:34:23 AM
Attachments: [image003.png](#)

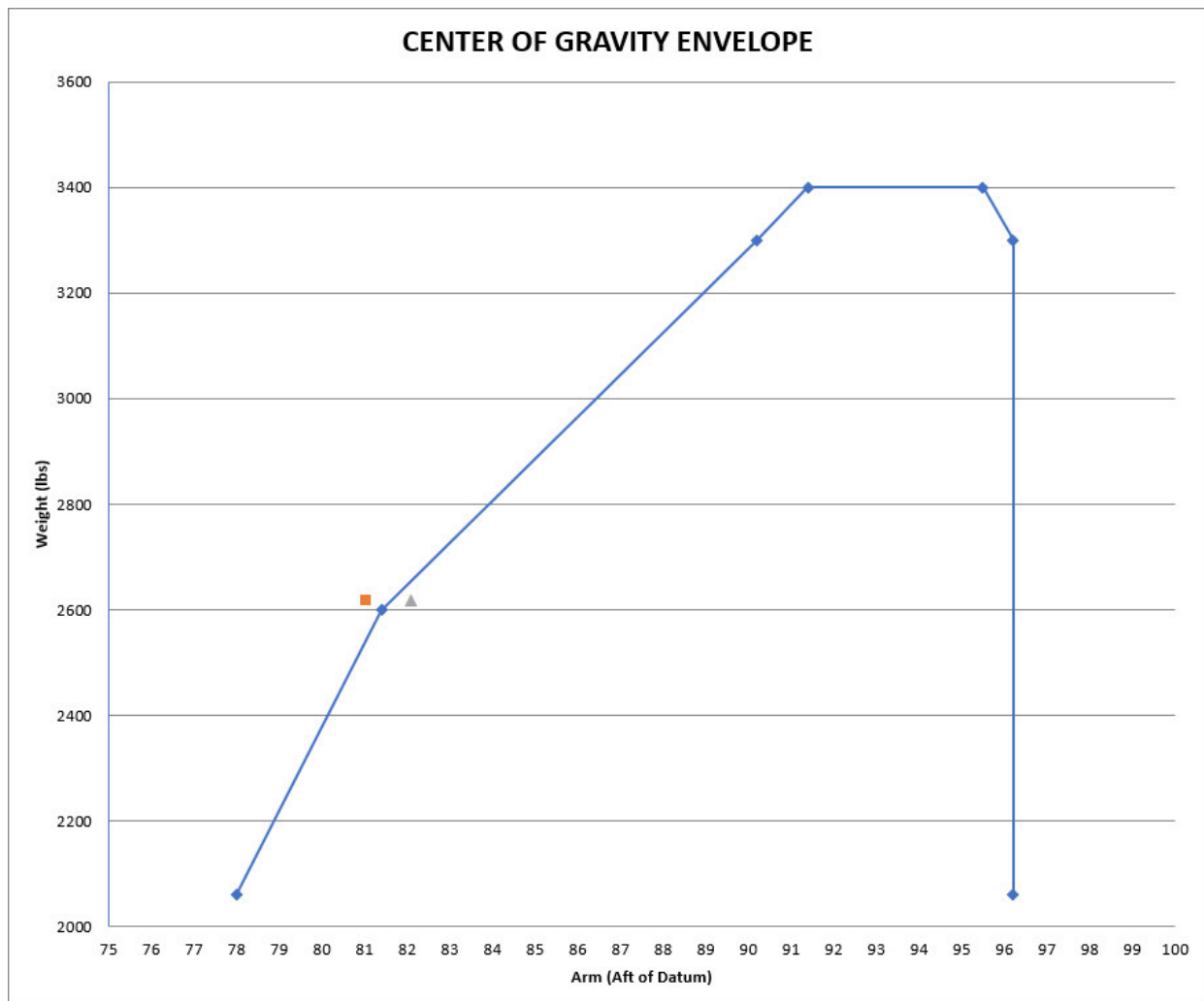
At the time of the accident with the numbers you provided, the aircraft weight was 2616.6, well below its maximum takeoff weight of 3400 lbs.

I have entered two scenarios for how the aircraft was loaded (balance):

Scenario one has the baggage and the dog in the second row of seats. **In this scenario, the CG was calculated to be 81.04 inches, forward of the limit of 81.4 inches at 2600 lbs.**

Scenario two has the dog in the third row of seats and the baggage in the aft baggage compartment. **In this scenario, the CG was calculated to be 82.1 inches, aft of the limit of 81.4 at 2600 lbs.**

Below is a plot of the aircraft's W&B. Scenario 1 is shown as a red box, Scenario 2 is shown as a green triangle.



I would also like to note an excerpt from my Field Notes:

"The pitch trim barrel appeared undamaged. One thread, or ½ inch of trim screw extension was observed from the top of the barrel, correlating to partial nose down trim."

For reference, a measurement of zero threads on the trim screw correlates to full nose down trim.

Please let me know if you have any questions.



Kathryn Whitaker | Air Safety Investigator

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