

Weight & Balance, R22

Basic Empty Weight, Center of Gravity.

Basic Empty Weight 877.51 lb Longitudinal CG 103.92 in Longitudinal Moment 91194.76 in-lb

Loading

		Location (in)	Moment (in- lb)
<u>Occupants</u>			
Right Seat	<u>180</u> lb	<u>78</u>	<u>14040</u>
Left Seat	<u>195</u> lb	<u>78</u>	<u>15210</u>

<u>Cargo</u>			
Right Seat	<u>1</u> lb	<u>78</u>	<u>78</u>
Left Seat	<u>5</u> lb	<u>78</u>	<u>390</u>

<u>Doors Removed</u>			
Right Side	<u>0</u> lb	<u>77.5</u>	<u>0</u>
Left Side	<u>-5.2</u> lb	<u>77.5</u>	<u>-403</u>

<u>Fuel at Takeoff</u>					
Main Fuel	<u>10.5</u>	gallons @ 6 lb/gallon =	<u>63</u> lbs	<u>108.6</u>	<u>6841.8</u>
Auxiliary Fuel	<u>4.5</u>	gallons @ 6 lb/gallon =	<u>27</u> lbs	<u>103.8</u>	<u>2802.6</u>

<u>Fuel at Time of Accident</u>					
Main Fuel	<u>5.2</u>	gallons @ 6 lb/gallon =	<u>31.2</u> lbs	<u>108.6</u>	<u>3388.32</u>
Auxiliary Fuel	<u>0.8</u>	gallons @ 6 lb/gallon =	<u>4.8</u> lbs	<u>103.8</u>	<u>498.24</u>

Total Weight, CG, Moment: Takeoff

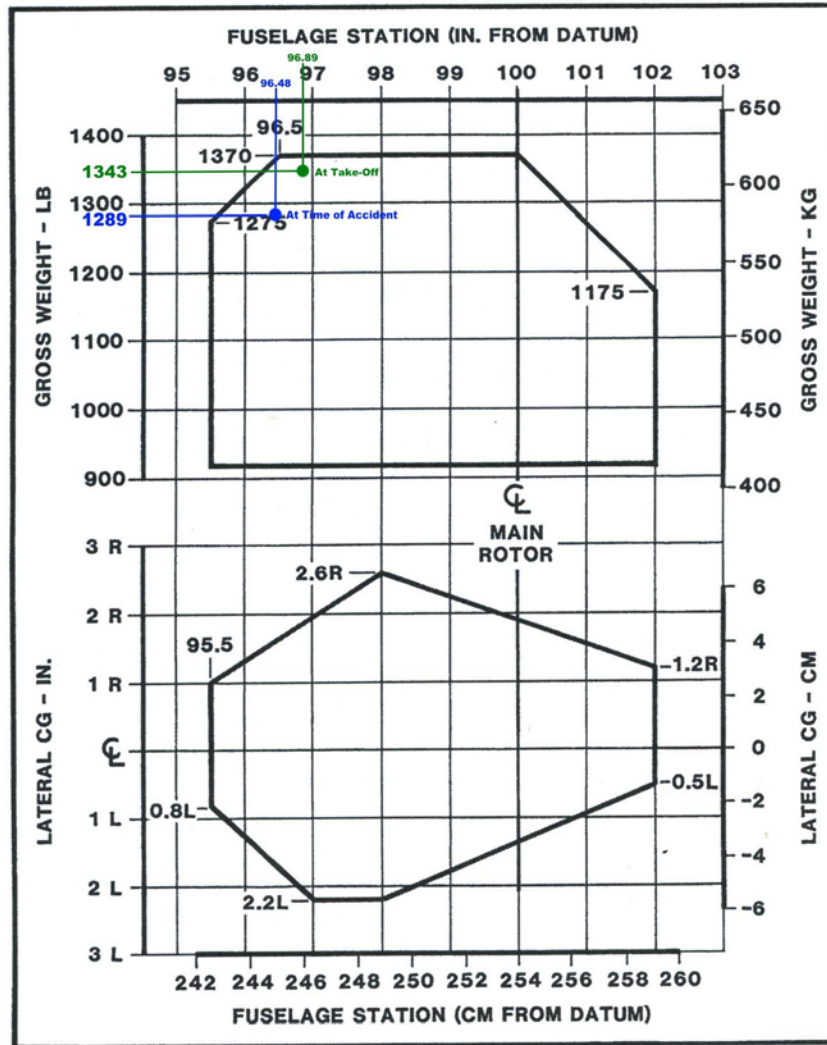
Total Weight 1343.3 lb Longitudinal CG 96.89 in Longitudinal Moment 130154.16 in-lb

Total Weight, CG, Moment: Time of Accident

Total Weight 1289.3 lb Longitudinal CG 96.48 in Longitudinal Moment 124396.32 in-lb

Note: The Basic Empty Weight used in the calculations above were recorded in the Pilot's Operating Handbook for this aircraft. The Pilot, Passenger and Fuel at Takeoff weights are as reported to the NTSB IIC. Fuel at Time of accident was calculated using a consumption rate of 9 gallons per hour for a flight of 1.0 hour.

N702JJ



R22 ALPHA, BETA, AND BETA II
CENTER OF GRAVITY LIMITS

Weight & Balance, R22

Basic Empty Weight, Center of Gravity.

Basic Empty Weight 877.51 lb Longitudinal CG 103.92 in Longitudinal Moment 91194.76 in-lb

Loading

		Location (in)	Moment (in- lb)
<u>Occupants</u>			
Right Seat	<u>191</u> lb	<u>78</u>	<u>14898</u>
Left Seat	<u>222</u> lb	<u>78</u>	<u>17316</u>

<u>Cargo</u>			
Right Seat	<u>1</u> lb	<u>78</u>	<u>78</u>
Left Seat	<u>5</u> lb	<u>78</u>	<u>390</u>

<u>Doors Removed</u>			
Right Side	<u>0</u> lb	<u>77.5</u>	<u>0</u>
Left Side	<u>-5.2</u> lb	<u>77.5</u>	<u>-403</u>

<u>Fuel at Takeoff</u>				
Main Fuel	<u>10.5</u> gallons @ 6 lb/gallon =	<u>63</u> lbs	<u>108.6</u>	<u>6841.8</u>
Auxiliary Fuel	<u>4.5</u> gallons @ 6 lb/gallon =	<u>27</u> lbs	<u>103.8</u>	<u>2802.6</u>

<u>Fuel at Time of Accident</u>				
Main Fuel	<u>5.2</u> gallons @ 6 lb/gallon =	<u>31.2</u> lbs	<u>108.6</u>	<u>3388.32</u>
Auxiliary Fuel	<u>0.8</u> gallons @ 6 lb/gallon =	<u>4.8</u> lbs	<u>103.8</u>	<u>498.24</u>

Total Weight, CG, Moment: Takeoff

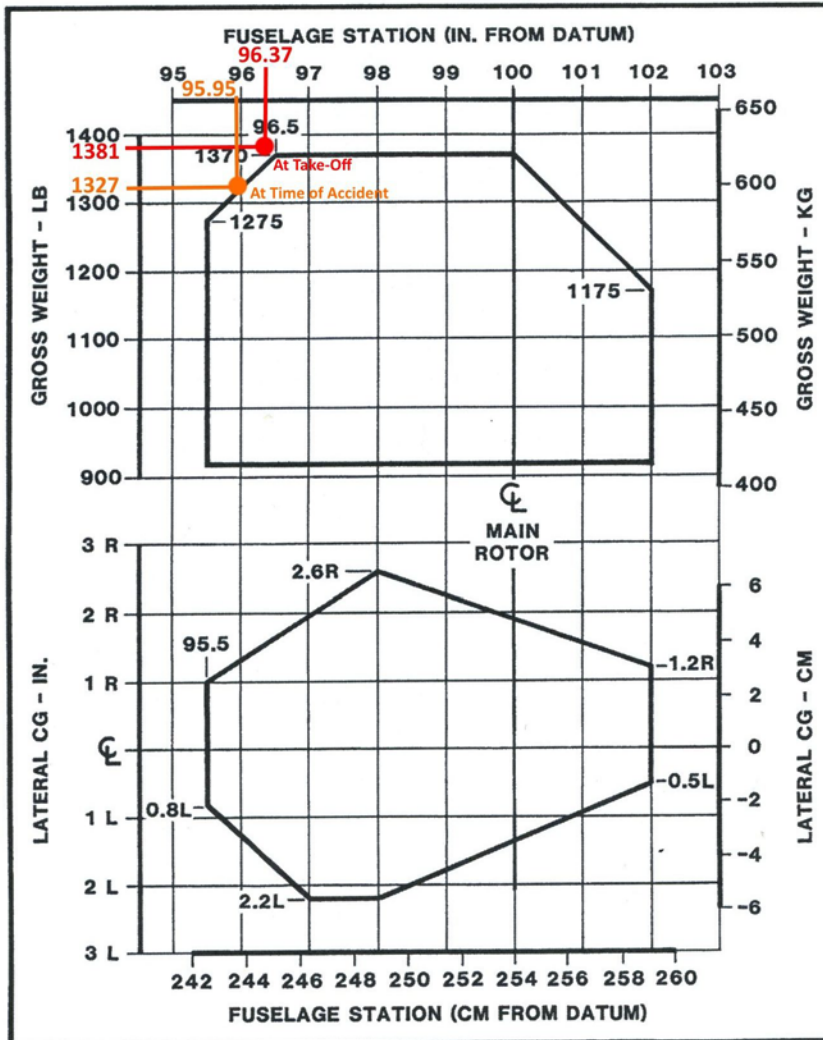
Total Weight 1381.3 lb Longitudinal CG 96.37 in Longitudinal Moment 133118.2 in-lb

Total Weight, CG, Moment: Time of Accident

Total Weight 1327.3 lb Longitudinal CG 95.95 in Longitudinal Moment 127360.4 in-lb

Note: The Basic Empty Weight used in the calculations above were recorded in the Pilot's Operating Handbook for this aircraft. The Pilot, Passenger and Fuel at Takeoff weights are as reported to the NTSB IIC. Fuel at Time of accident was calculated using a consumption rate of 9 gallons per hour for a flight of 1.0 hour.

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R22 ALPHA, BETA, AND BETA II
CENTER OF GRAVITY LIMITS