

Aircraft Type	Lightning
N number	N290AL
Serial #	76
Date:	9/13/2012
Datam	Firewall
Level Point	Cockpit top rail longitudinally, and Across the cock pit
Forward Limit	29.50"
Aft Limit	34.00"

Initial W+B

	Weight	ARM	Moment
Front	187	-14.5	-2711.5
Left	327	40	13080
Right	326	40	13040
total	840		23408.5
CG		27.8672619	

Baggage capacity to 50 lbs

Empty Aircraft: Unuseabl fuel and operation fluids

Empty Weight	Weight	Moment in/lbs
Center of Gravity	840	23408.5
	27.8672619	

Forward CG With 100 pound pilot and 0 gallons on board

	Weight	Moment in/lbs
Empty Weight	840	23408.5
Pilot	100	4410
Fuel	0	0
Baggage	0	0
Total	940	27818.5
Center of Gravity		29.5941489

Most Aft CG at Gross Weight

	Weight	Arm	Moment in/lbs
Empty Weight	840	27.8672619	23408.5
Pilot and pass	250	44.1	11025
Baggage	50	69.76	3488
Fuel	180	37.4	6732
Total	1320		44653.5
Center of Gravity		33.8284091	

Accident Flight (Estimated)

	Weight	Arm	Moment in/lbs.
Empty Weight	840	27.8672619	23408.5
Pilot, PAX, + Chutes	420	44.1	18522
Fuel	90	37.4	3366
Total	1350		45296.5
Center of Gravity		33.55	