Aircraft Weight & Balance

N9333K — **Monday, December 19, 2011**

SN 34-7670198

NEW WEIGHT & BALANCE — **Airplane "Basic" Empty Weight**

Notes

Weighed with empty fuel tanks, full oil, and #3 and #4 seat removed.

As Weighted	WEIGHT	ARM	MOMENT
Nose Gear	889.00	25.50	22669.50
Left Main Gear	1120.00	109.80	122976.00
Right Main Gear	1125.00	109.80	123525.00
Unusable Fuel	30.00	103.00	3090.00
#3 and #4 seats	47.60	124.40	5921.44
			0.00
TOTALS	3211.60	86.62	278181.94

NEW EMPTY WEIGHT:	3211.60
NEW C/G Arm:	86.62
NEW MOMENT:	278181.94

Airplane "Basic" Empty Weight

AS WEIGHED *****

MAX Gross = 4570 lbs

Useful Load = 1358.4 lbs (4570 − 3211.6)

Payload with Full Fuel = 620.4 lbs (Full Fuel 738 lbs so 620.4 + 738 = 1358.4 useful Load)

MAX Payload with ∅ Fuel = #788.4 lbs (3211.6 Empty + 788.4 = 4000 zero fuel MAX)

Steven Morgan
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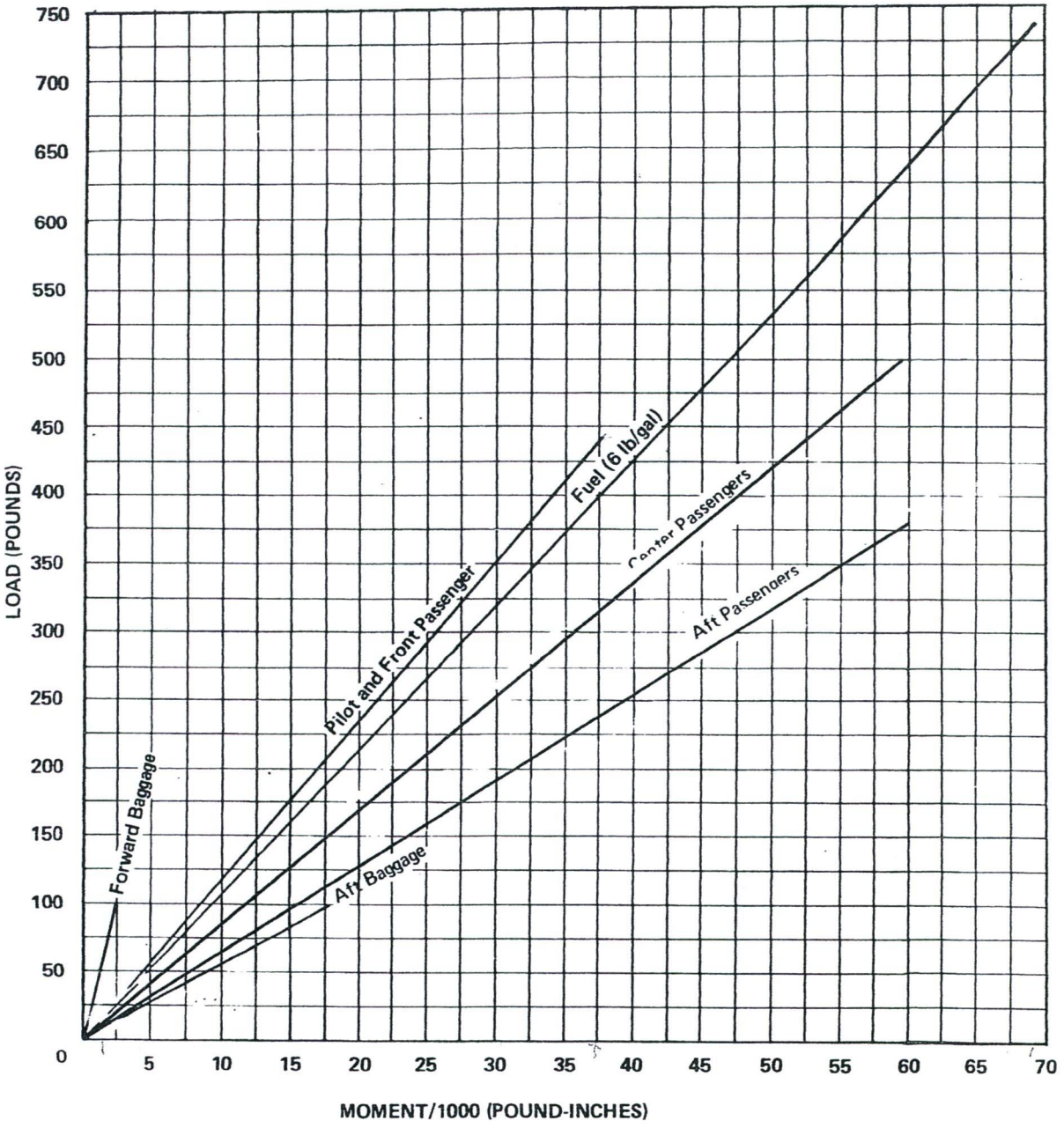
ESMR688D

*If over 4342 lbs on Takeoff Need to burn fuel to Land at 4342 lbs or less

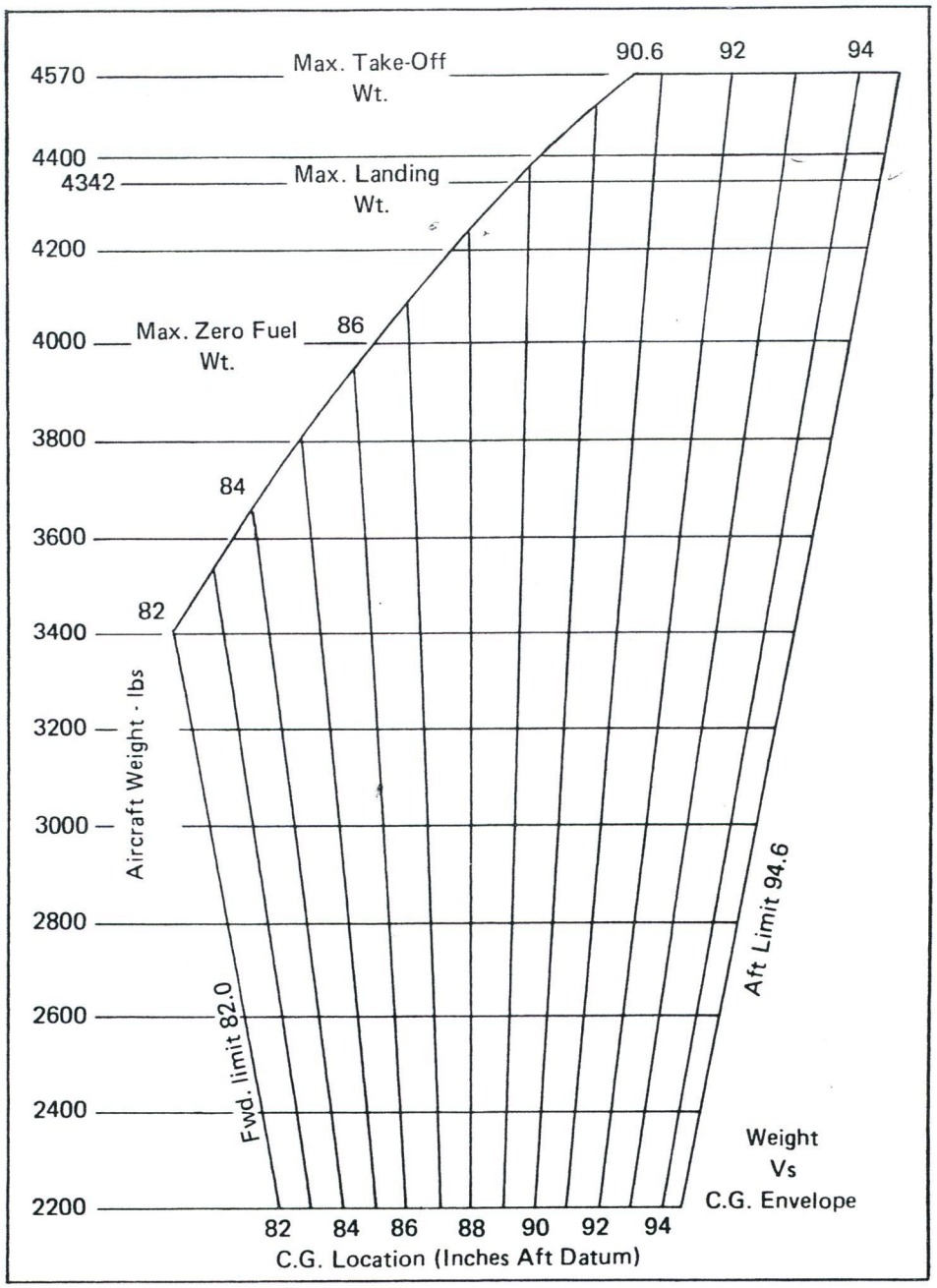
MAX Fuel if Payload at ∅ Fuel MAX (4000 + 570 = 4570) → 570 lbs (95 Gallons)

LOADING GRAPH



LOADING GRAPH

Figure 6-13



Moment change due to retracting Landing Gear = - 32 in.-lbs.

C. G. RANGE AND WEIGHT

Figure 6-15