

# MD 600N®

## PERFORMANCE SPECIFICATIONS

### 5.0 PERFORMANCE SPECIFICATIONS.

		3,100 lb	3,600 lb	4,100 lb
Maximum Cruise Speed		144	139	134 kt (154 mph)
	KTAS Sea Level ISA	148	143	134 kt (154 mph)
	KTAS 5,000 ft. ISA			134 kt (154 mph)
Maximum Permitted Speed	Vne (KCAS) at Sea Level	152 (175)	152 (175)	135 kt (155 mph)
Maximum Range	Sea Level ISA	347 (430)	357 (411)	257 (296)
	5,000 ft. ISA	423 (487)	401 (461)	293 (337)
Maximum Endurance	Sea Level ISA	3.9	3.8	3.6 hr
	5,000 ft. ISA	4.4	4.1	3.9 hr
Maximum Rate-of-Climb	Sea Level Standard ISA	2,100	1,700	1,350 ft./min
	ISA +20°C Day	1,900	1,500	1,150 ft./min
Maximum Operating Altitude	Density Altitude	20,000	20,000	20,000
Service Ceiling	ISA @ 100 ft/min	20,000+	20,000+	13,500
HIGE (Hover-in-Ground Effect)	Standard Day	14,500+	14,500+	11,100 ft
	ISA +20°C Day	12,200+	11,600	7,000 FT
HOGE (Hover Out-of-Ground Effect)	Standard Day	14,500+	11,700	6,000 ft
	ISA +20°C Day	12,200+	8,000	3,200 ft

#### Certification Limits:

Standard Weight	Normal Category	4,100 lb
	Maximum Internal	4,500 lb*
Empty Weight	Standard Configuration	2,100 lb
	Industrial Configuration	2,036 lb
Useful Load	Internal	2,000 lb
	External	2,400 lb**
Cargo Hook Structural Rating		3,000 lb
Fuel Capacity		115 gal

Powerplant: Rolls-Royce Engine Company Model 250-C47M gas turbine, rated at 603 kw (808 shp), derated for reliability and safety to: Takeoff 447 kw (600 shp) Max Continuous Power 395 kw (530 shp)

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		1406 kg	1633 kg	1860 kg
Maximum Cruise Speed	KTAS Sea Level ISA	267	257	248 kph
	KTSA 1524 m, ISA	274	255	248 kph
Maximum Permitted Speed	Vne (KCAS) at Sea Level	282	282	250 kph
Maximum Range	Sea Level ISA	693	661	633 km
	1524 m, ISA	783	743	704 km
Maximum Endurance	Sea Level ISA	3.9	3.8	3.6 hr
	1524 m, ISA	4.4	4.1	3.9 hr
Maximum Rate-of-Climb (AEO)	Sea Level Standard ISA	10.7	8.6	6.9 m/s
	ISA +20°C Day	9.6	7.6	5.8 m/s
Maximum Operating Altitude	Density Altitude	6096	6096	6096 m
Service Ceiling	ISA @ 30.5 m/min	6096+	5639	4115m
HIGE (Hover-in-Ground Effect)	Standard Day	4420+	4420+	3383 m
	ISA +20°C Day	3719+	3536	2134 m
HOGE (Hover Out-of-Ground Effect)	Standard Day	4420+	3566	1829 m
	ISA +20°C Day	3719+	2438	975 m

### Certification Limits

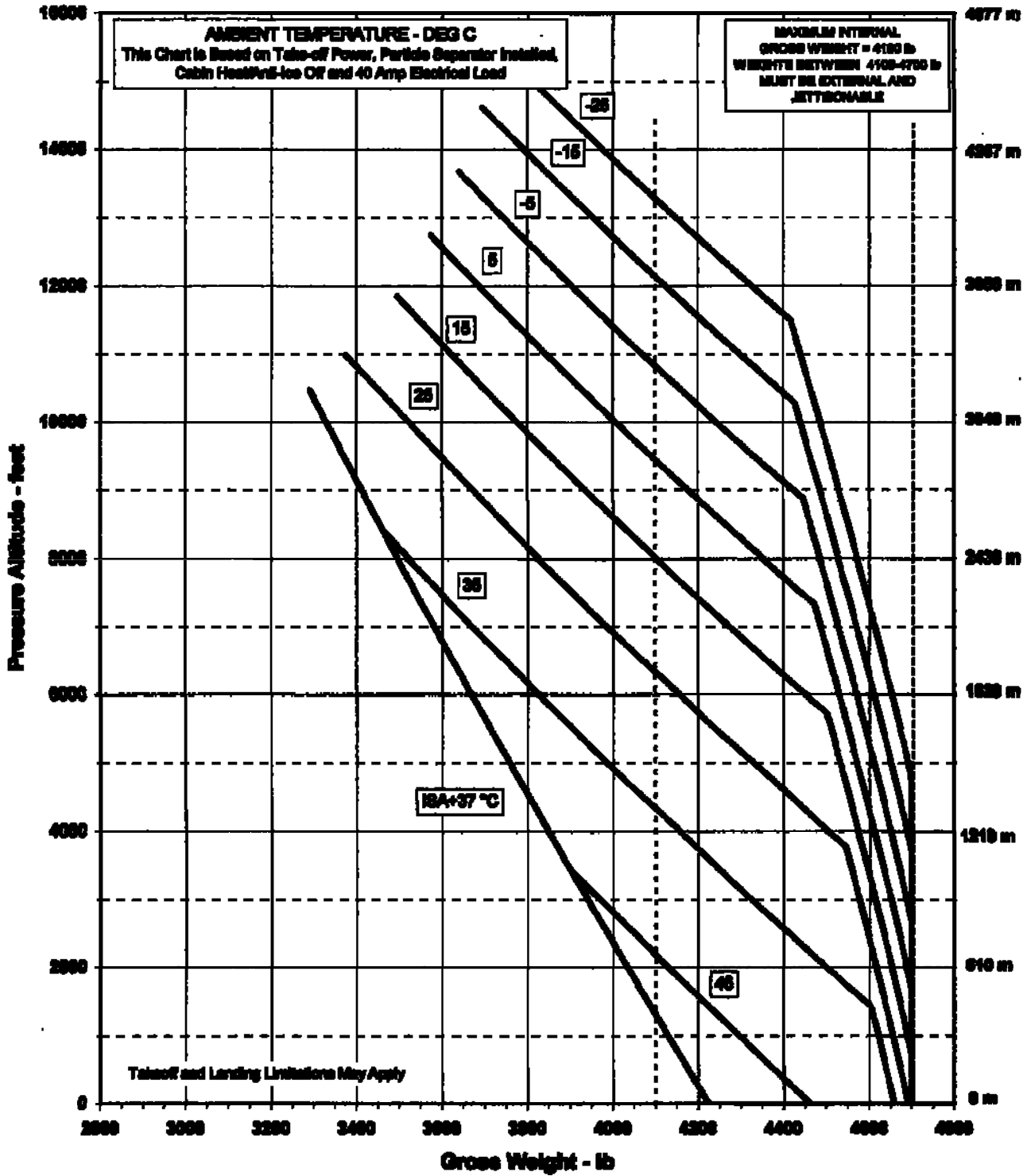
Standard Weight	Normal Category	1859 kg
	External Load	2131 kg*
Empty Weight	Standard Configuration	962 kg
	Industrial Configuration	923 kg
Useful Load	Internal	907 kg
	External	1179 kg**
Cargo Hook Structural Rating		1360 kg
Fuel Capacity		4351

*Powerplant: Rolls-Royce Engine Company Model 250-C47M gas turbine, rated at 603 kw (808 shp), derated for reliability and safety to: Takeoff 447 kw (600 shp) Max Continuous Power 395 kw (530 shp)*

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## PERFORMANCE SPECIFICATIONS

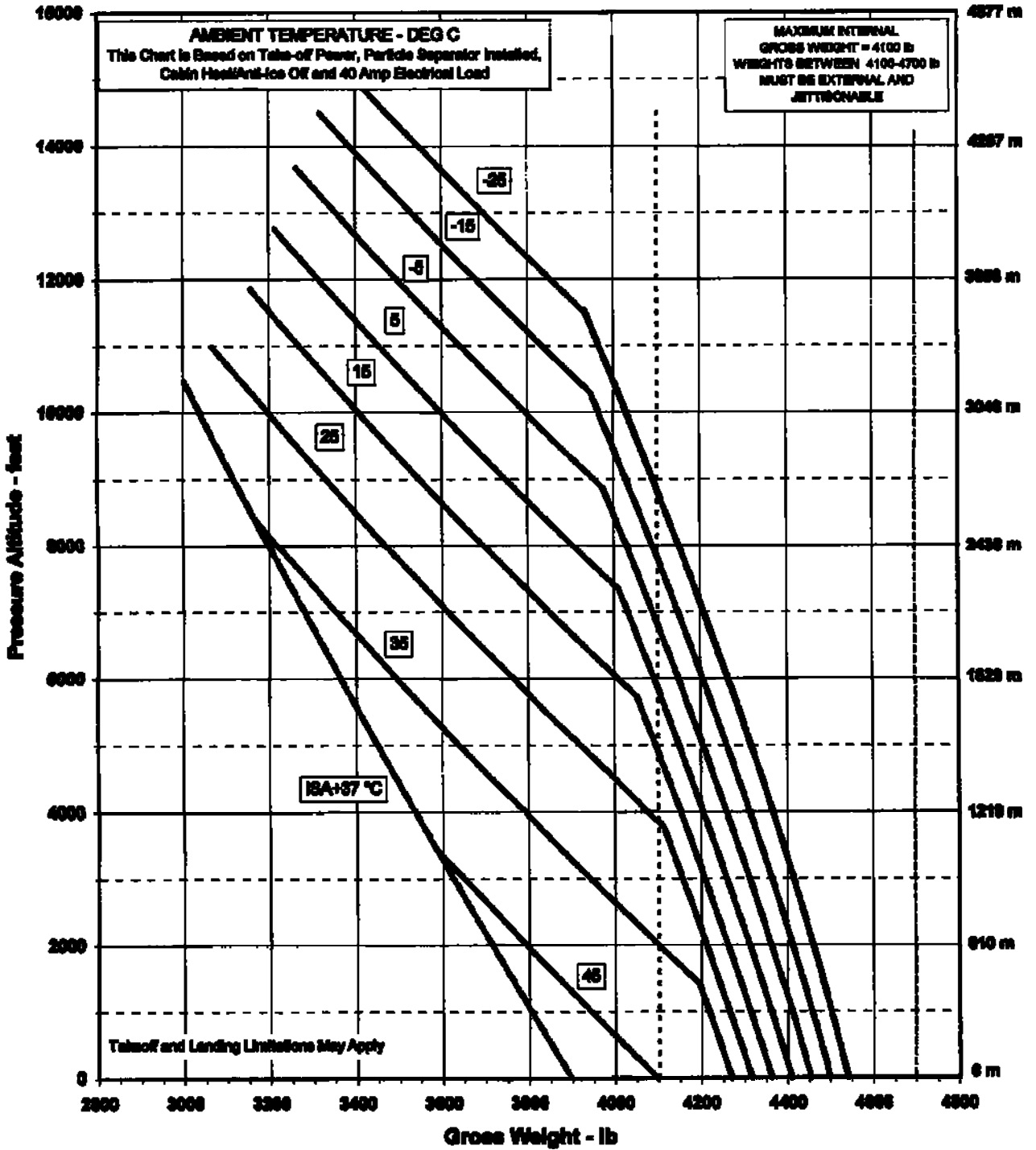
### 5.1. Hover-In-Ground-Effect.



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### 5.2. Hover-Out of-Ground-Effect.



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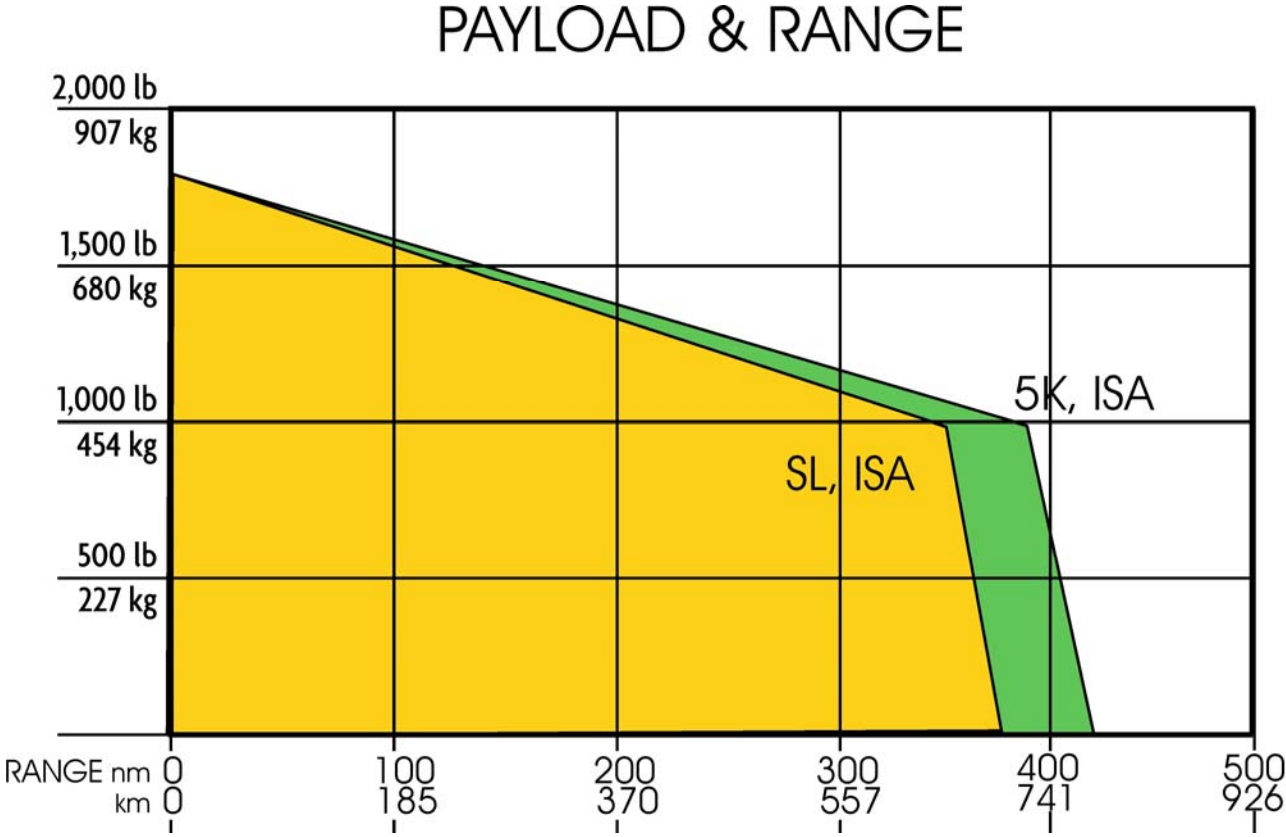
### 5.3. Gross Weight Worksheet

	Example	Mission #1	Mission #2
Empty Weight	2,100 lb (952 kg)		
Pilot	170 lb (77 kg)		
Fuel	782 lb (355 kg)		
Payload	1,048 lb (476 kg)		
<b>Takeoff GW</b>	4,100 lb (1860 kg)		

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## PERFORMANCE SPECIFICATIONS

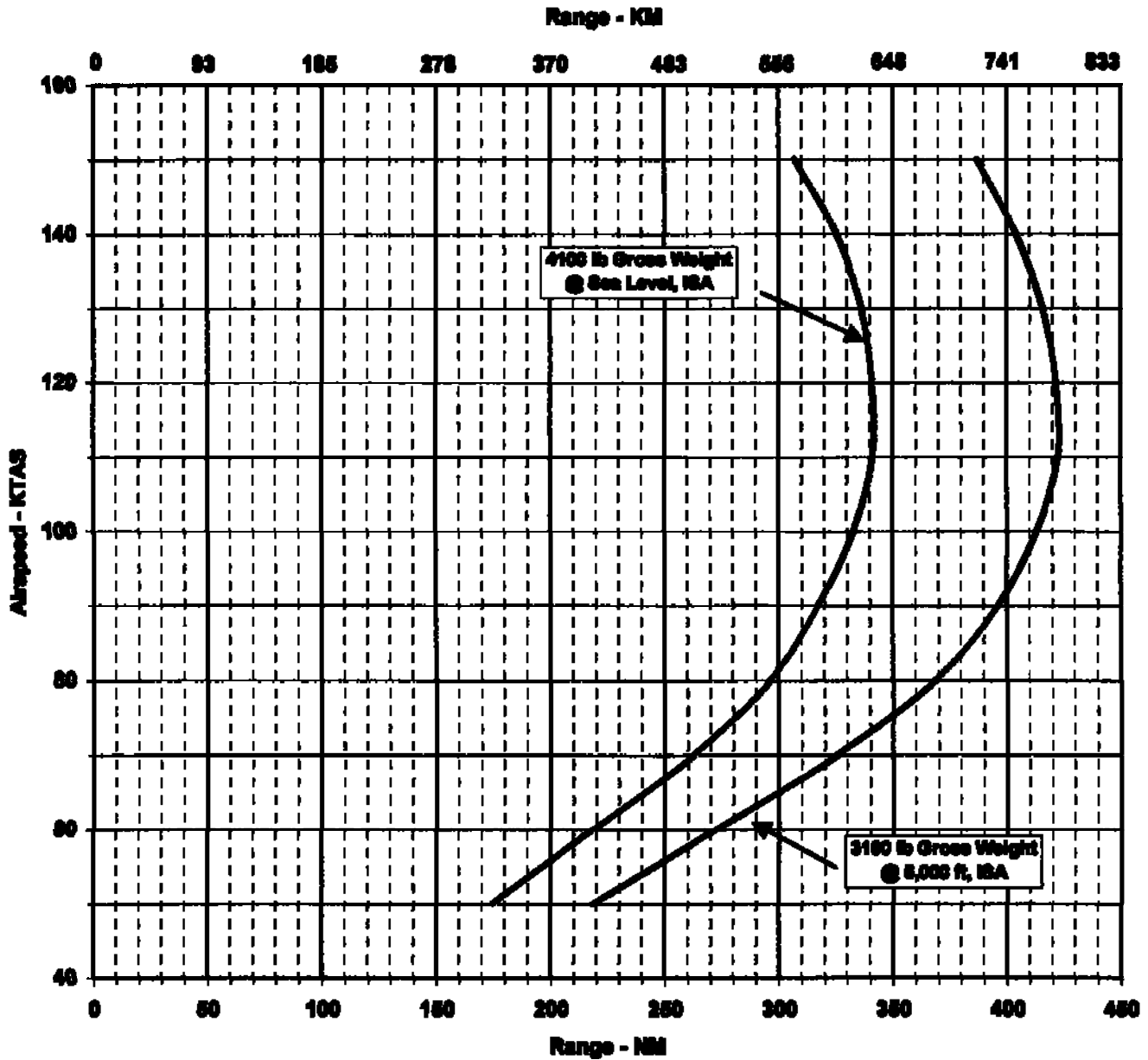
### 5.4. Payload vs Range.



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### 5.5. Speed for Best Range.

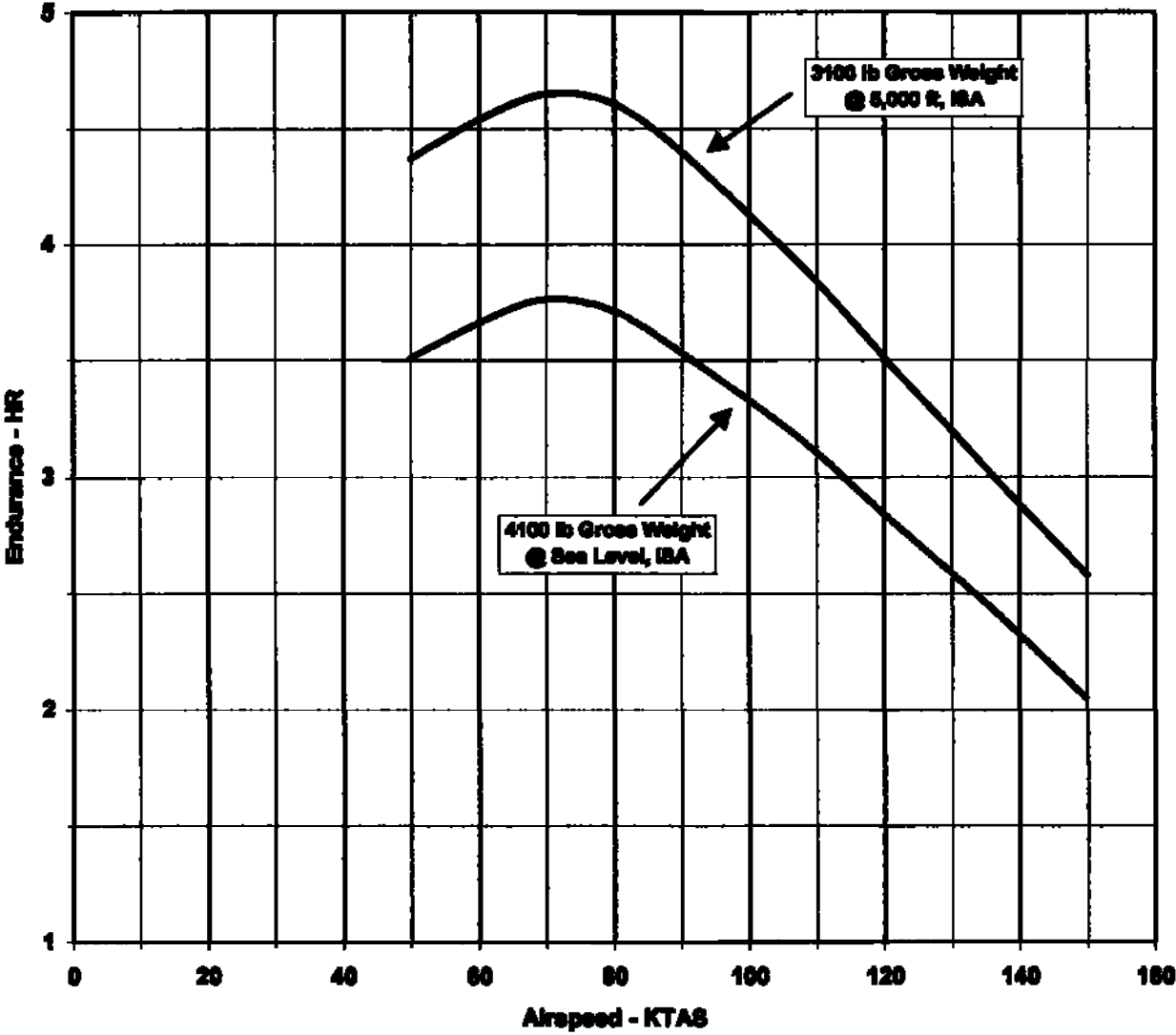


Note: Use for Estimates Only. Not FAA Approved. Based on clean aircraft, level flight performance, minimum specification engine, particle separator and 40 ampere electrical load.

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### 5.6. Speed for Best Endurance.



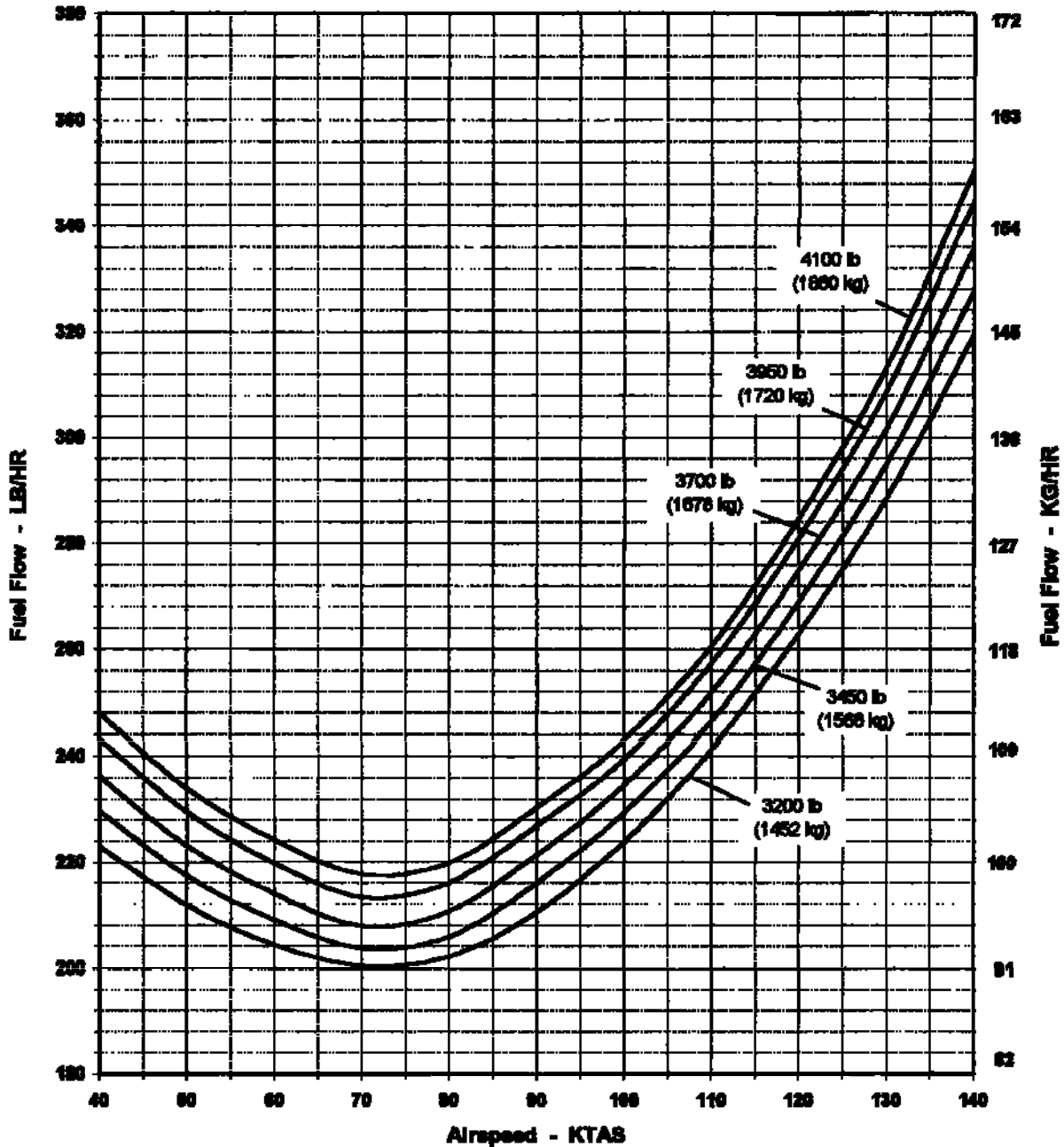
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### 5.7. Fuel Consumption

#### 5.7.1. Fuel Flow, Sea Level, ISA (15°C).

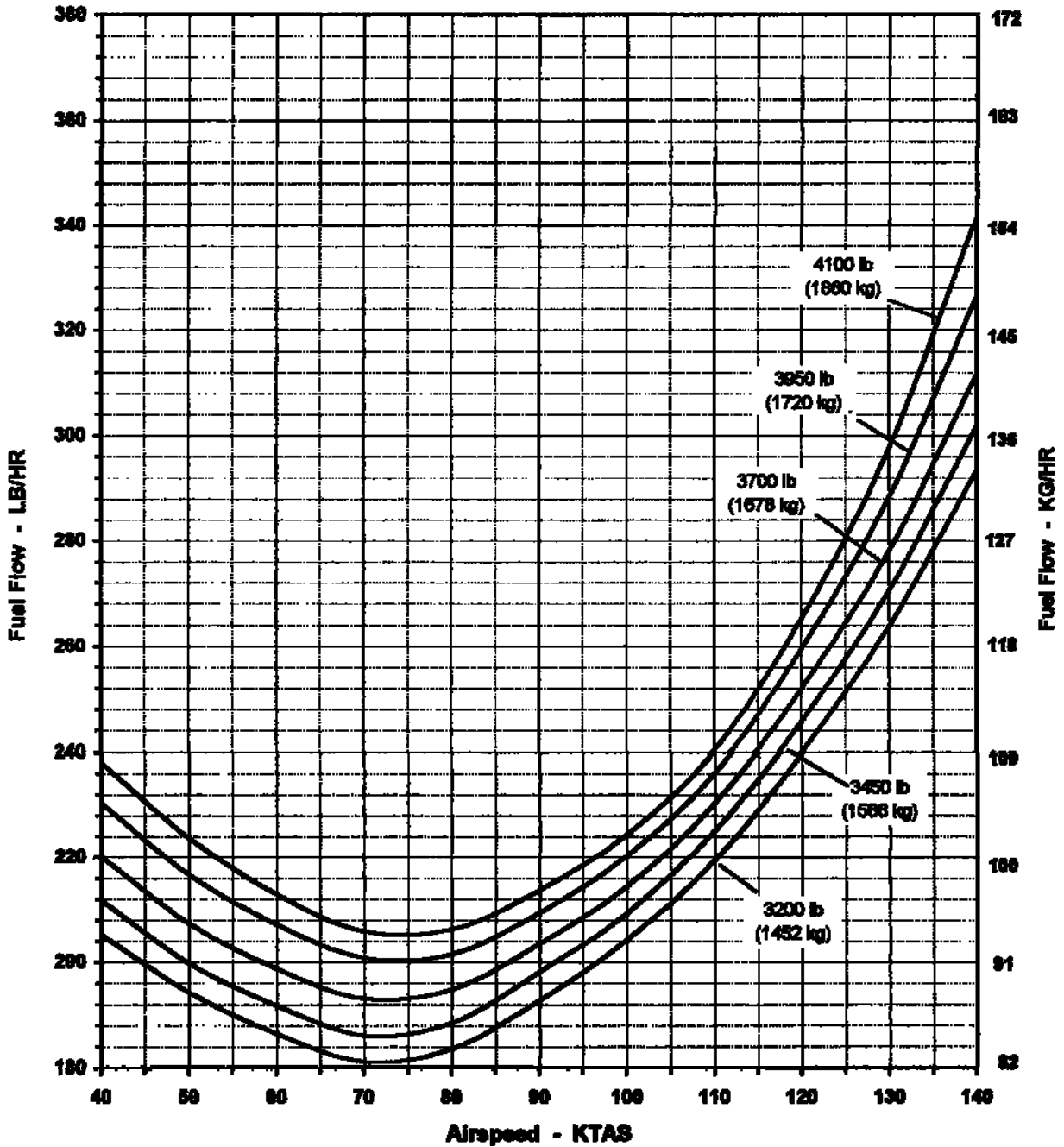


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### 5.7.2. Fuel Flow, 4000 ft, ISA (7°C).

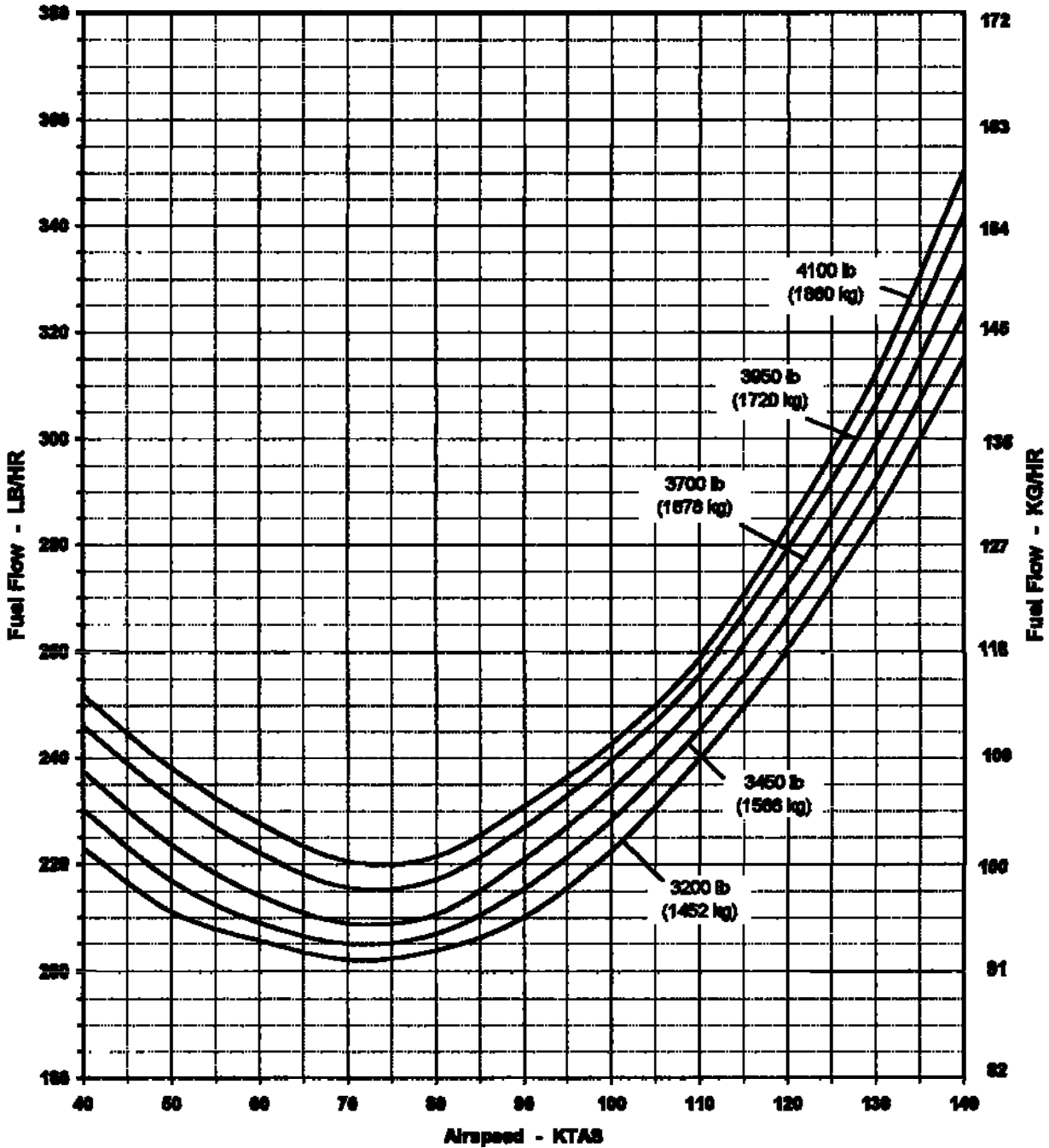


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### 5.7.3. Fuel Flow, Sea Level, ISA +20 (35°C).

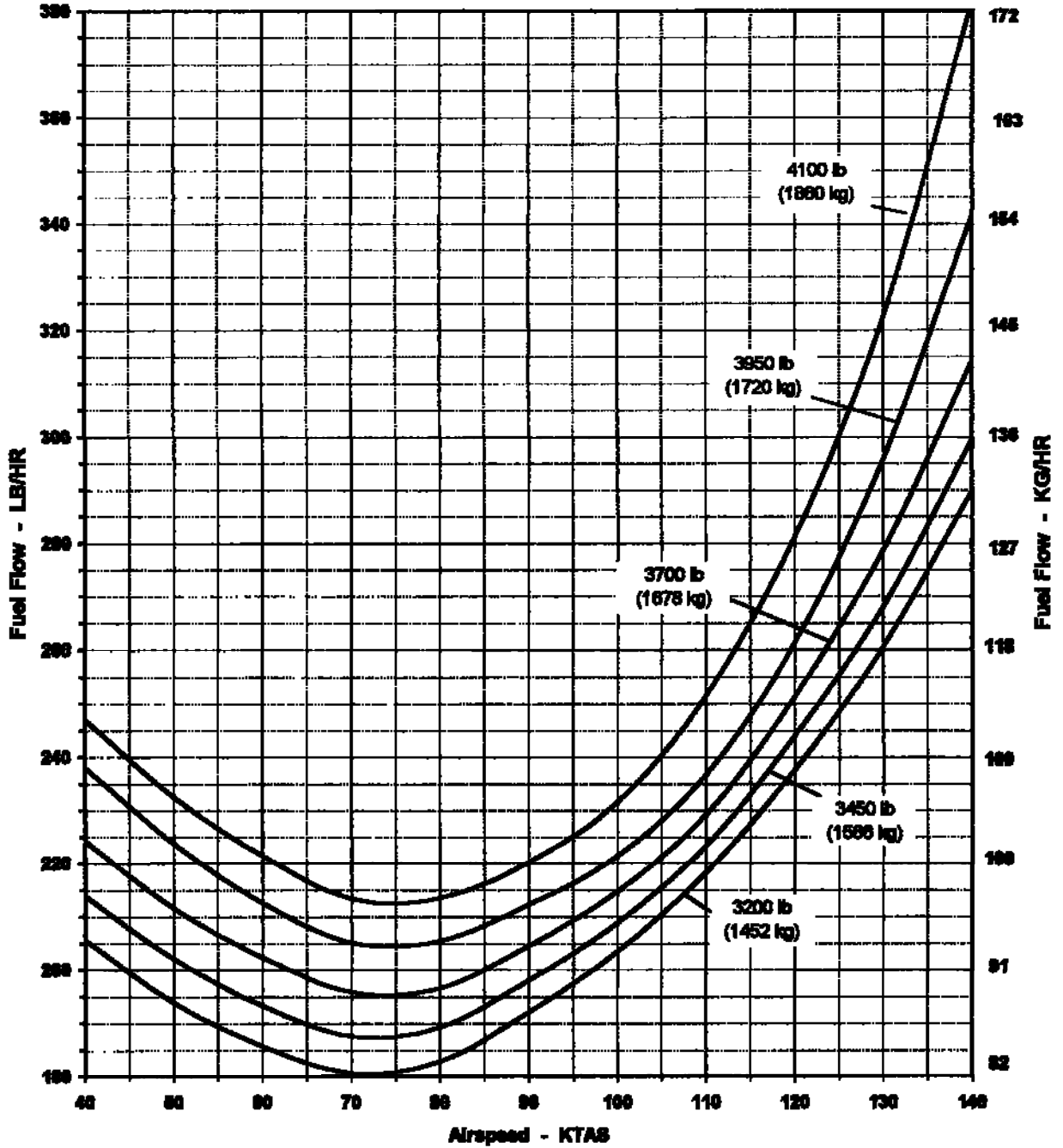


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### 5.7.4. Fuel Flow, 4000 ft, ISA +20 (27°C).



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