

## **3.0 AIRPLANE PERFORMANCE**

### **3.1 General Information**

### **3.2 Payload-Range**

### **3.3 FAR Takeoff Runway Length Requirements**

### **3.4 FAR Landing Runway Length Requirements**

### 3.0 AIRPLANE PERFORMANCE

#### 3.1 General Information

Figures 3.2.1 through 3.2.8 present payload-range information for a specific Mach number cruise at the fuel reserve condition shown.

Figures 3.3.1 through 3.4.2 represent FAR takeoff and landing field length requirements for FAA certification.

Standard day temperatures for the altitudes shown are tabulated below:

ELEVATION		STANDARD DAY TEMPERATURE	
FEET	METERS	F	C
0	0	59	15
2,000	610	51.9	11.1
4,000	1,219	44.7	7.1
6,000	1,829	37.6	3.1
8,000	2,438	30.5	-0.8

Note: These data are provided for information only and are not to be used for flight planning purposes.

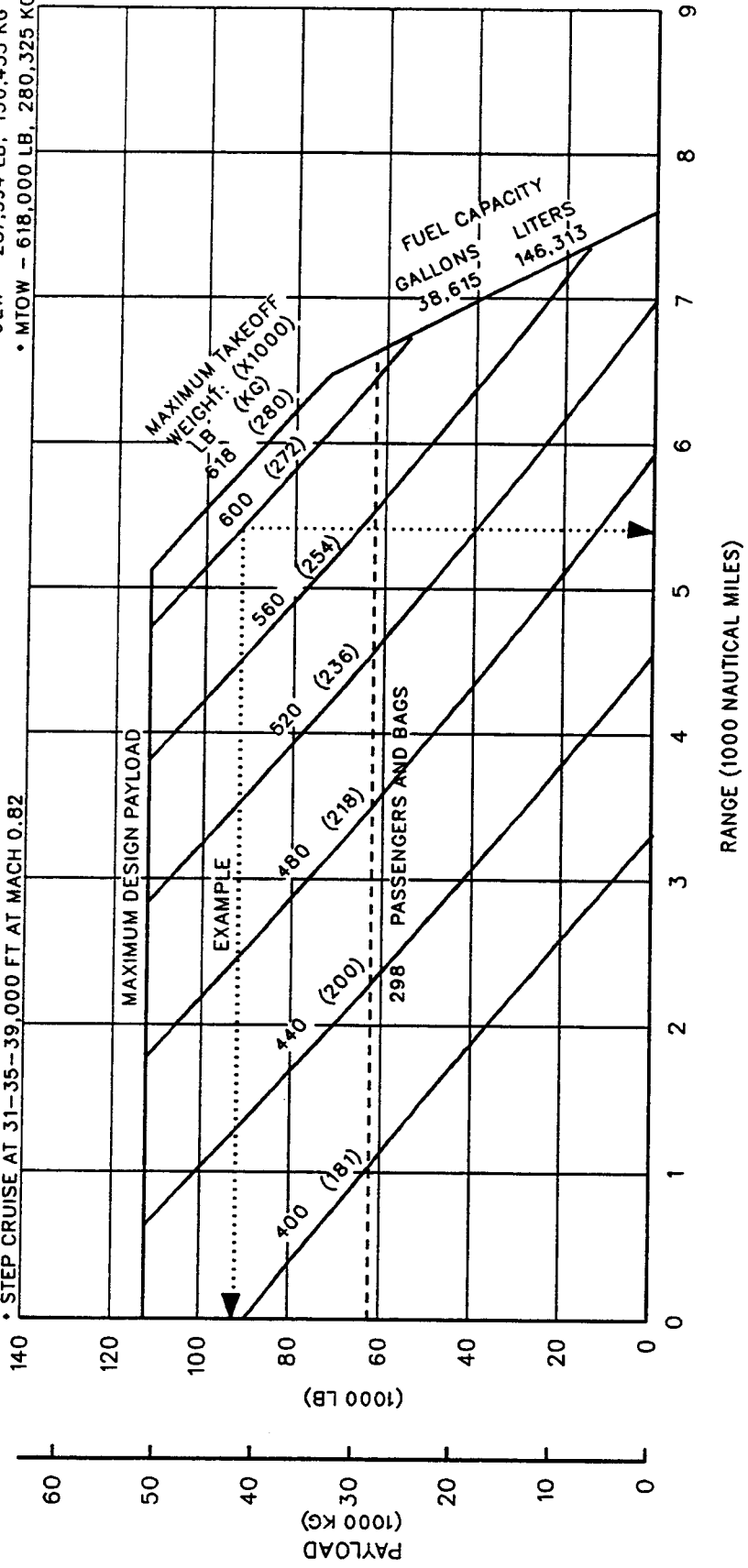
For specific performance data/analysis, contact the using airline or the Airport Technology Group at (425) 237-0126 or:

Boeing Commercial Airplane Group  
P.O. Box 3707  
Seattle, Washington 98124-2207  
USA

Attn: Manager, Airport Technology  
Mail Code 67-KR

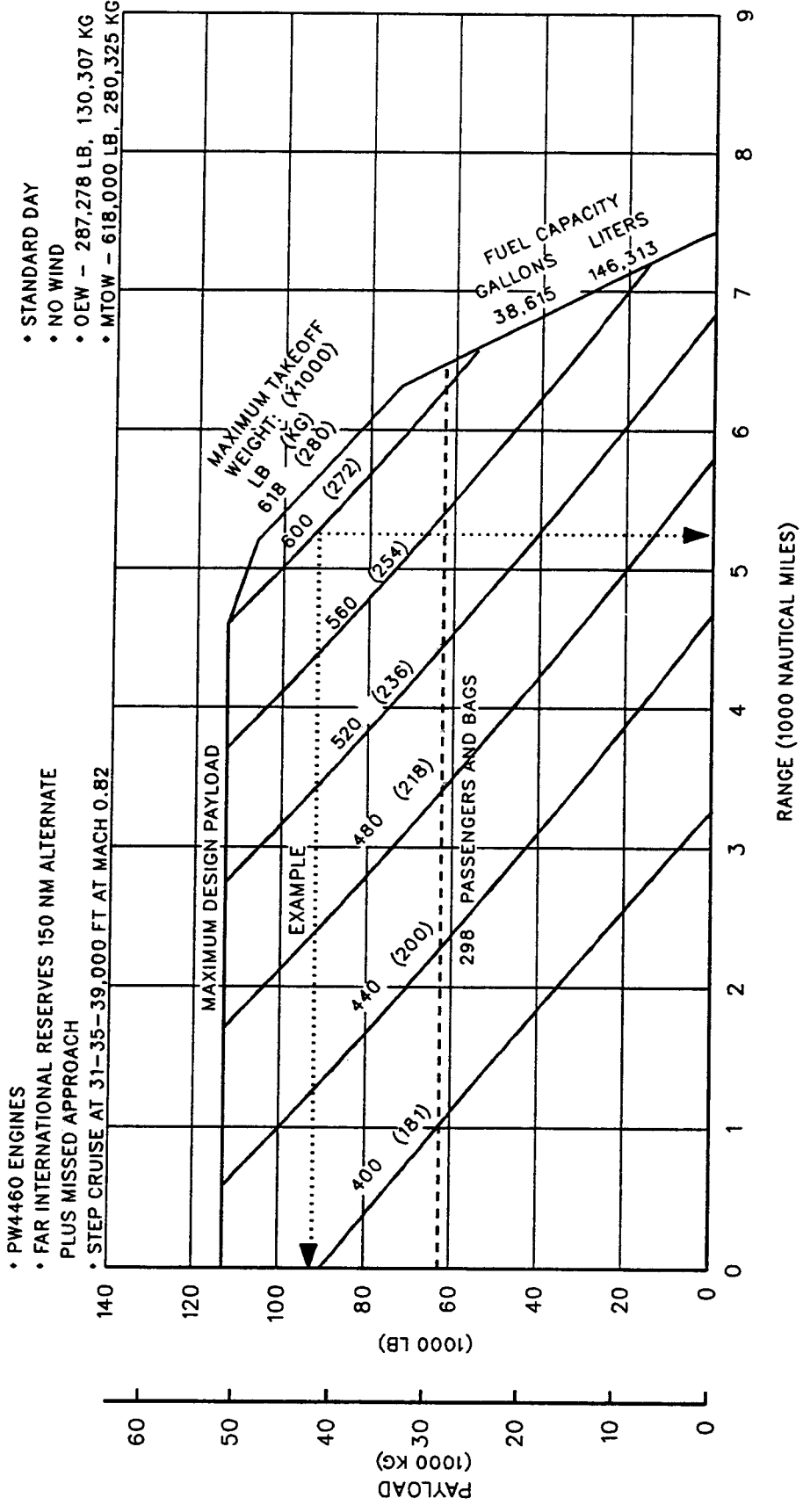
NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES

- CF6-80C2D1F ENGINES
- FAR INTERNATIONAL RESERVES 150 NM ALTERNATE PLUS MISSED APPROACH
- STEP CRUISE AT 31-35-39,000 FT AT MACH 0.82
- STANDARD DAY
- NO WIND
- OEW - 287,594 LB, 130,435 KG
- MTOW - 618,000 LB, 280,325 KG



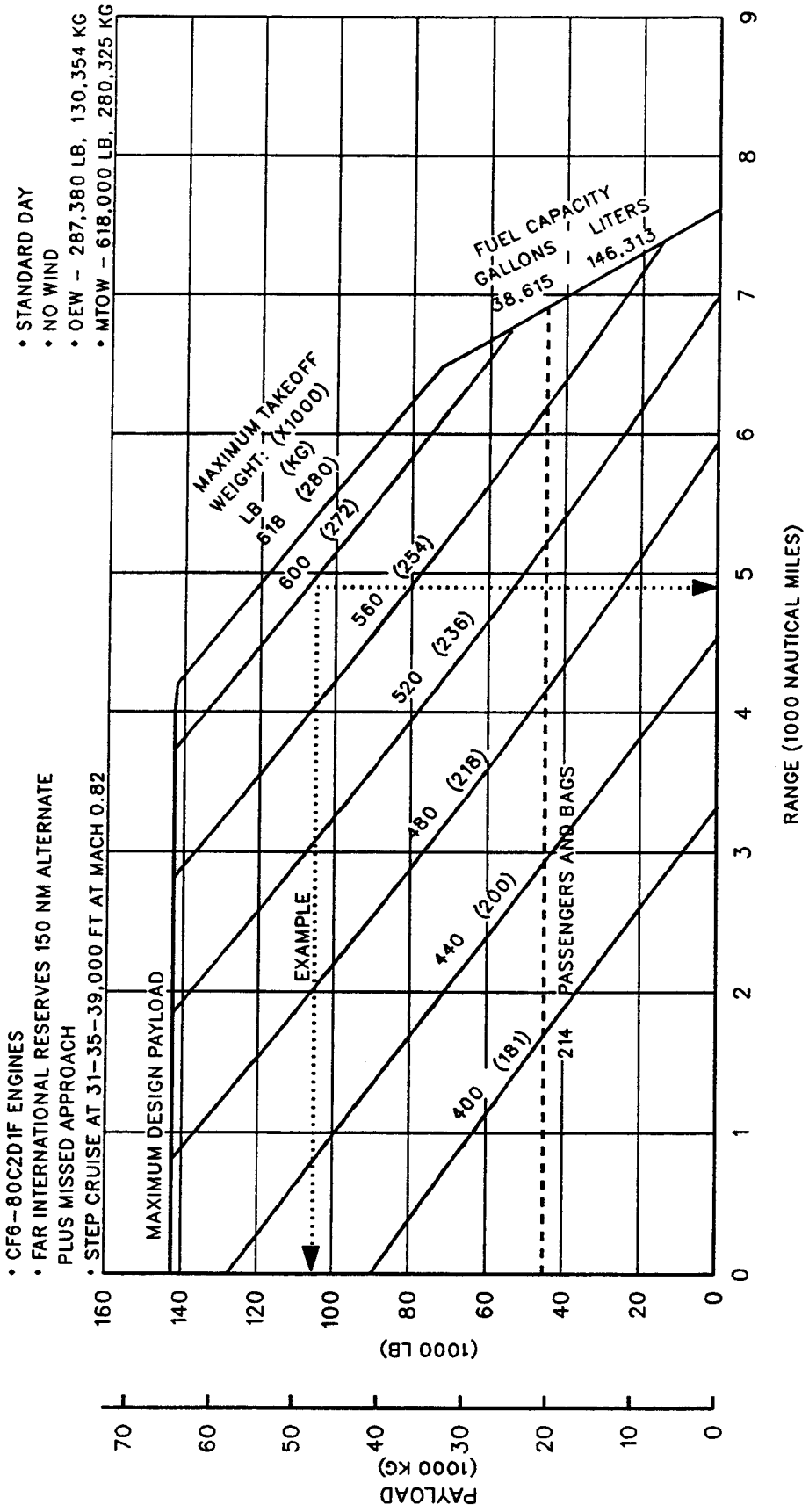
**3.2 PAYLOAD-RANGE  
3.2.1 GE ENGINE  
MODEL MD-11 PASSENGER**

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



3.2 PAYLOAD-RANGE  
3.2.2 PW ENGINE  
MODEL MD-11 PASSENGER

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES

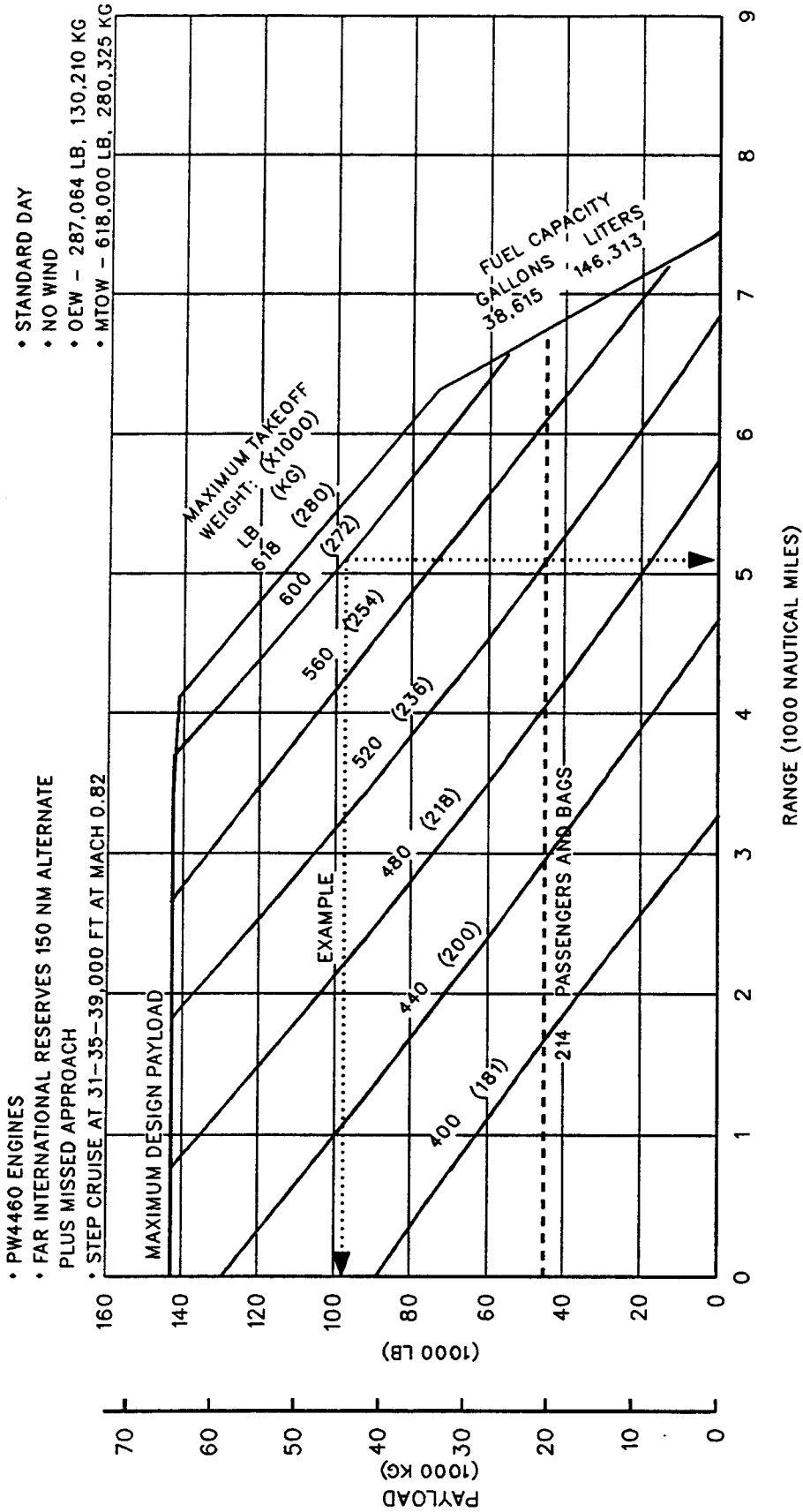


- STANDARD DAY
- NO WIND
- OEW - 287,380 LB, 130,354 KG
- MTOW - 618,000 LB, 280,325 KG

- CF6-80C2D1F ENGINES
- FAR INTERNATIONAL RESERVES 150 NM ALTERNATE PLUS MISSED APPROACH
- STEP CRUISE AT 31-35-39,000 FT AT MACH 0.82

**3.2 PAYLOAD-RANGE  
3.2.3 GE ENGINE  
MODEL MD-11 COMBI**

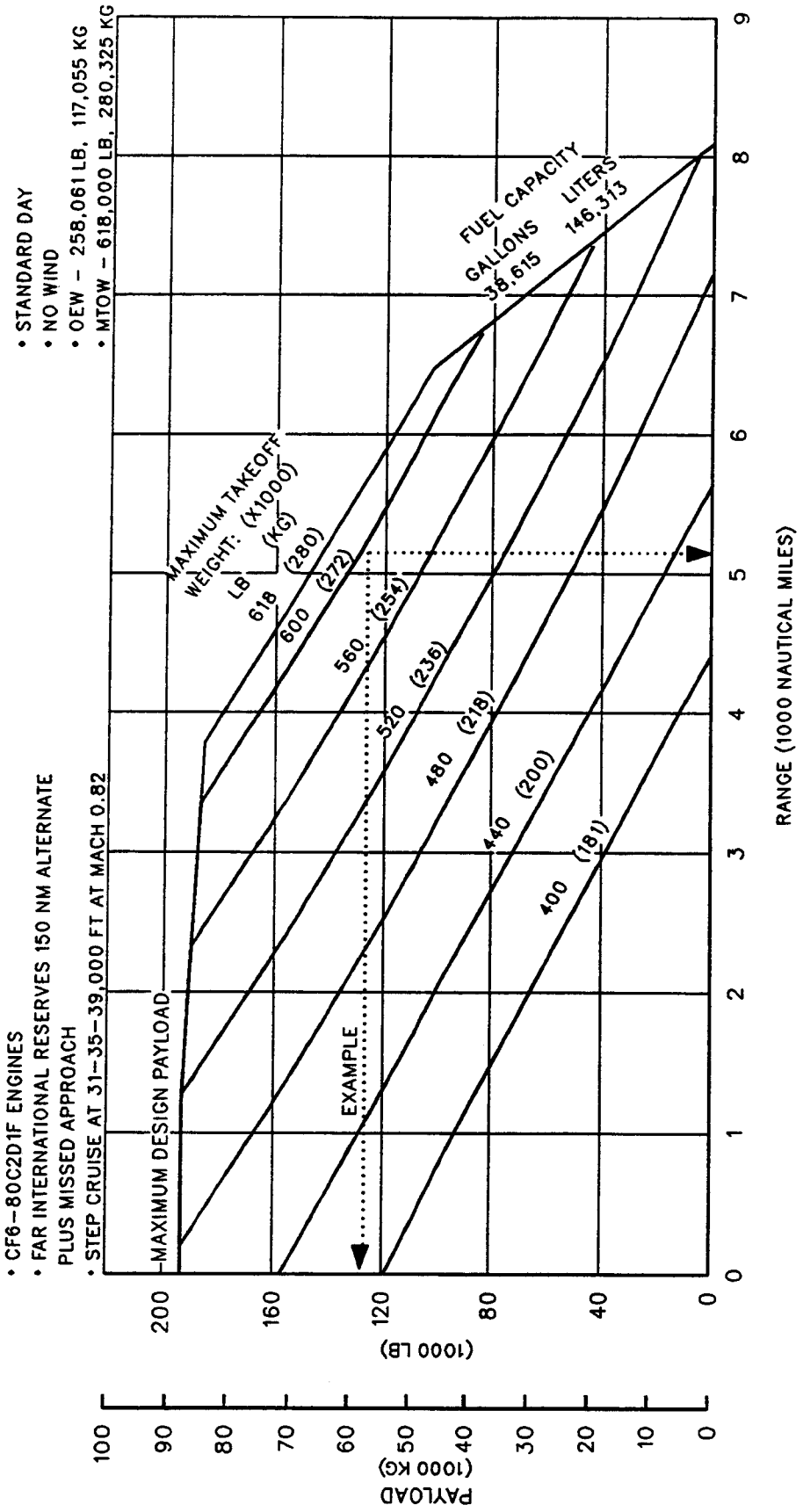
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FLIGHT PLANNING PURPOSES



- PW4460 ENGINES
- FAR INTERNATIONAL RESERVES 150 NM ALTERNATE PLUS MISSED APPROACH
- STEP CRUISE AT 31-35-39,000 FT AT MACH 0.82
- STANDARD DAY
- NO WIND
- OEW - 287,064 LB, 130,210 KG
- MTOW - 618,000 LB, 280,325 KG

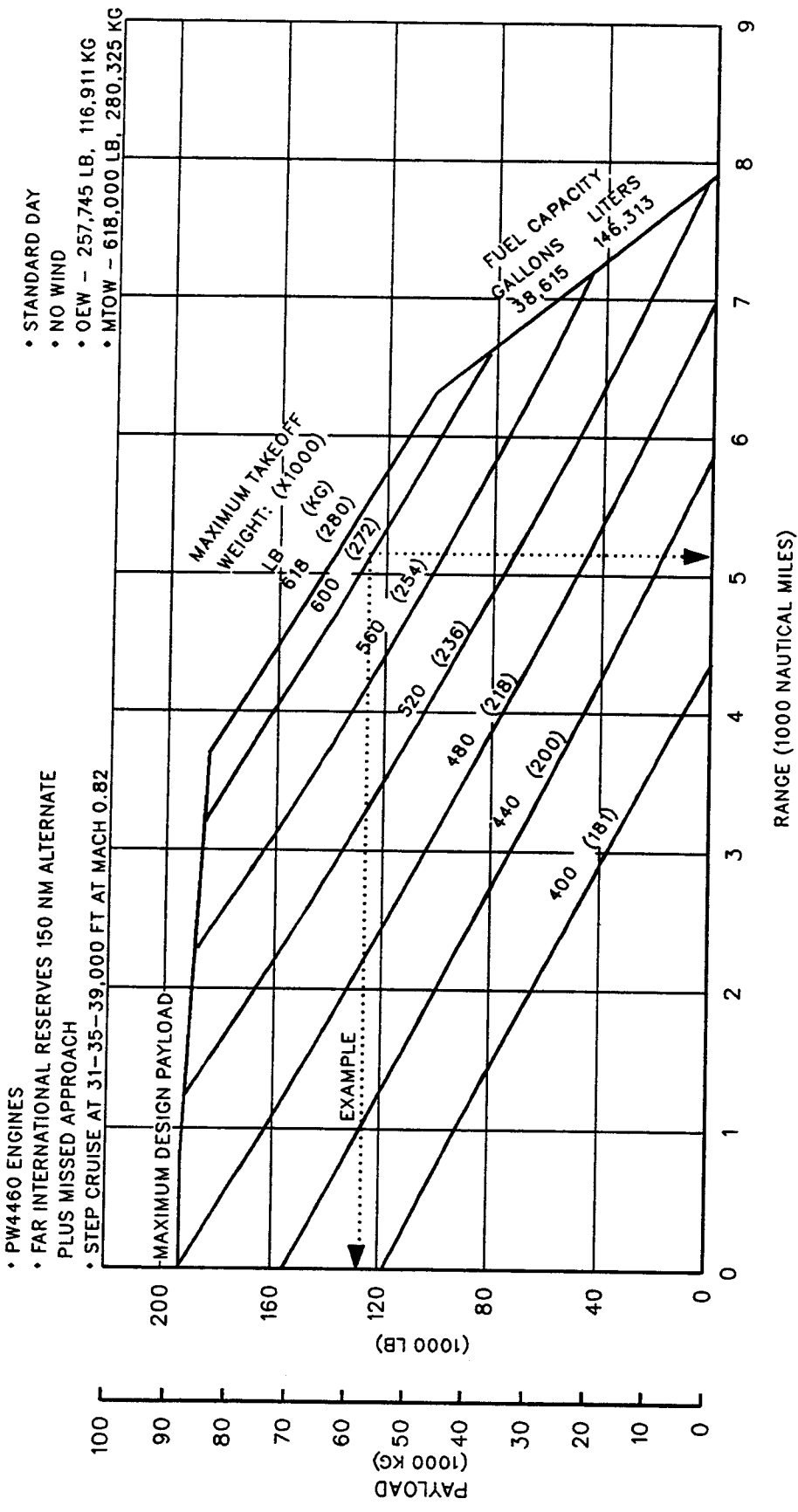
**3.2 PAYLOAD-RANGE**  
**3.2.4 PW ENGINE**  
**MODEL MD-11 COMBI**

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



3.2 PAYLOAD-RANGE  
3.2.6 GE ENGINE  
MODEL MD-11 CONVERTIBLE FREIGHTER

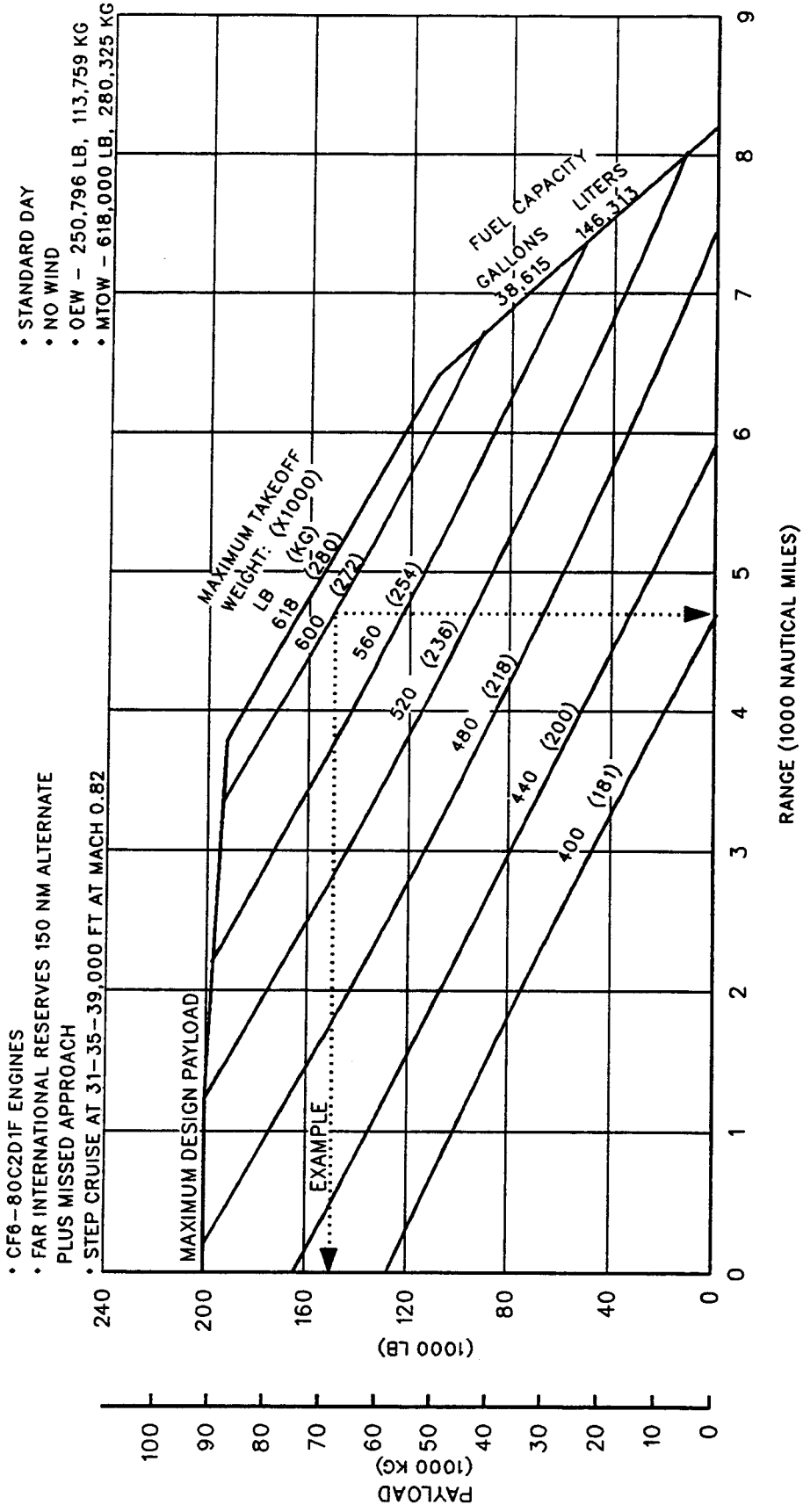
NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



- STANDARD DAY
- NO WIND
- OEW - 257,745 LB, 116,911 KG
- MTOW - 618,000 LB, 280,325 KG

3.2 PAYLOAD-RANGE  
 3.2.6 PW ENGINE  
 MODEL MD-11 CONVERTIBLE FREIGHTER

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES

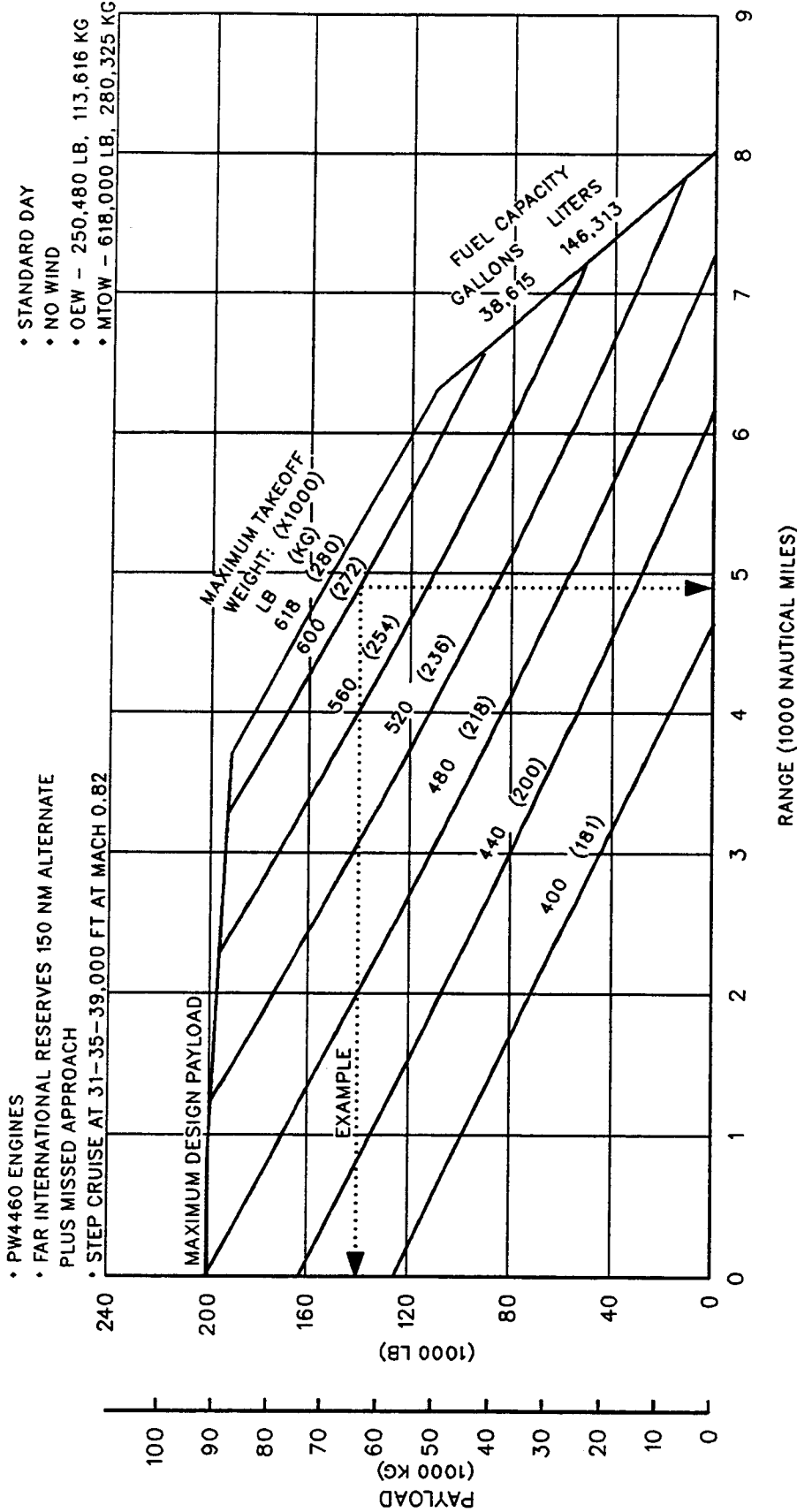


- STANDARD DAY
- NO WIND
- OEW - 250,796 LB, 113,759 KG
- MTOW - 618,000 LB, 280,325 KG

- CF6-80C2D1F ENGINES
- FAR INTERNATIONAL RESERVES 150 NM ALTERNATE PLUS MISSED APPROACH
- STEP CRUISE AT 31-35-39,000 FT AT MACH 0.82

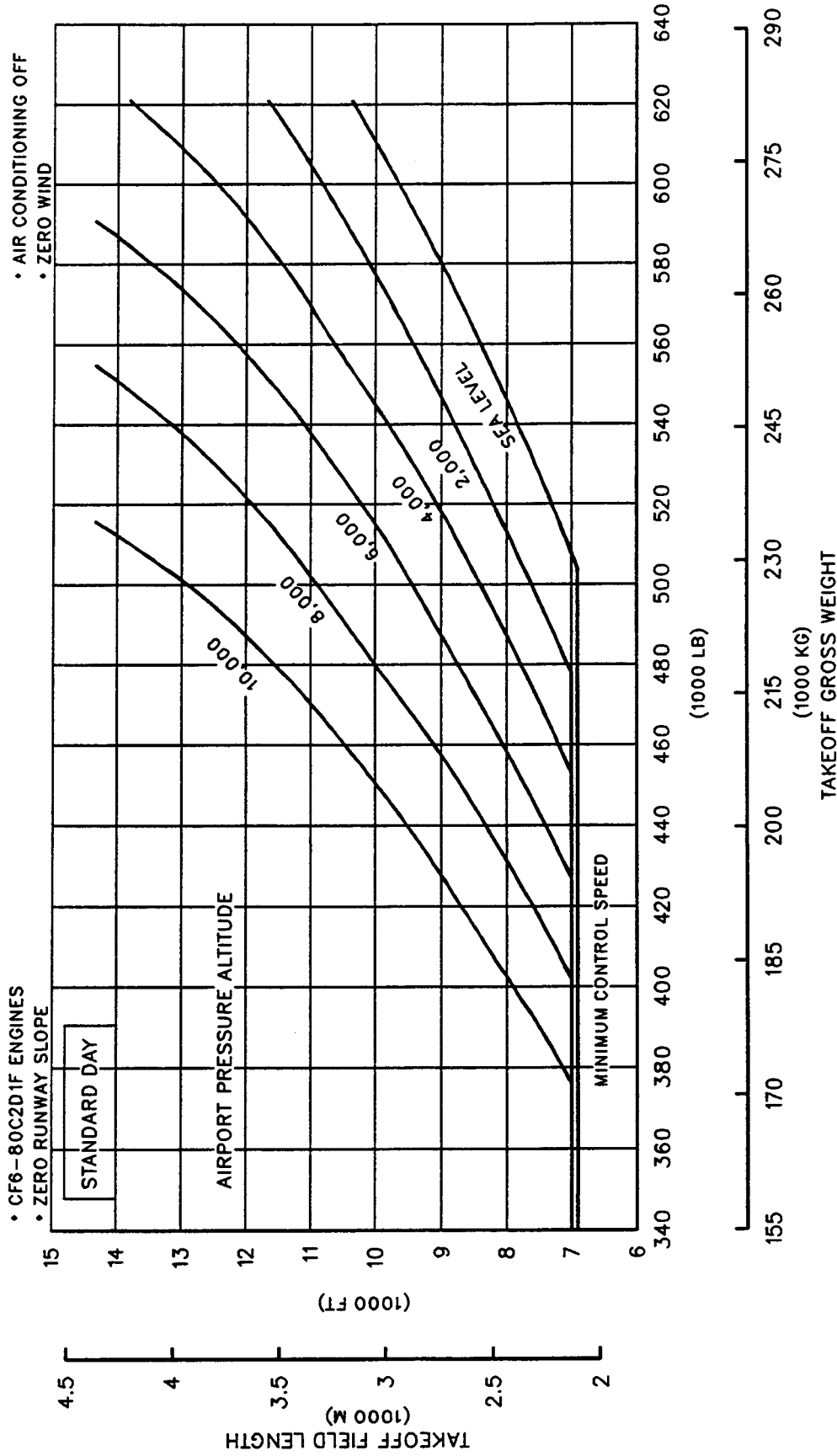
3.2 PAYLOAD-RANGE  
3.2.7 GE ENGINE  
MODEL MD-11 FREIGHTER

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



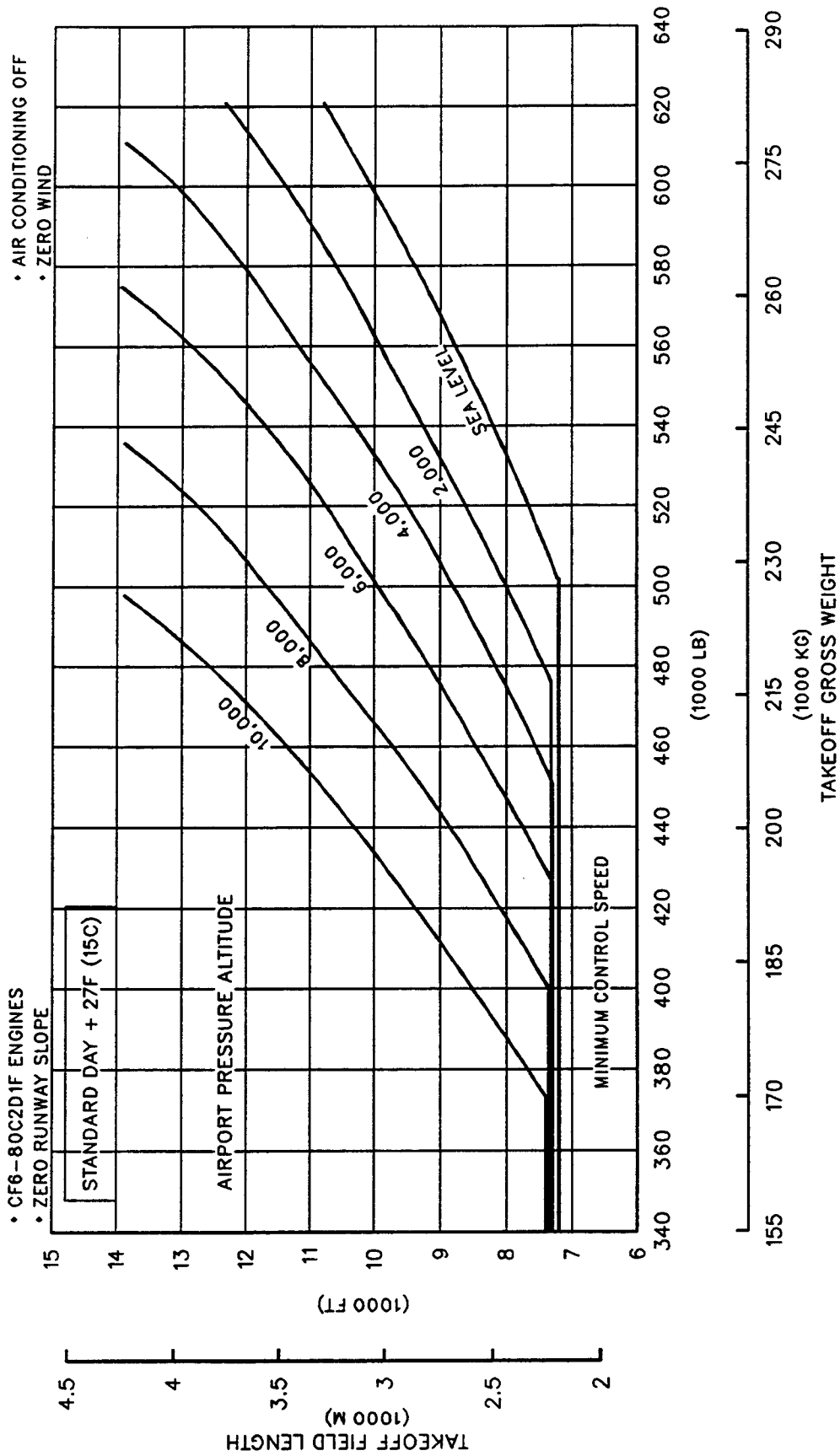
3.2 PAYLOAD-RANGE  
3.2.8 PW ENGINE  
MODEL MD-11 FREIGHTER

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



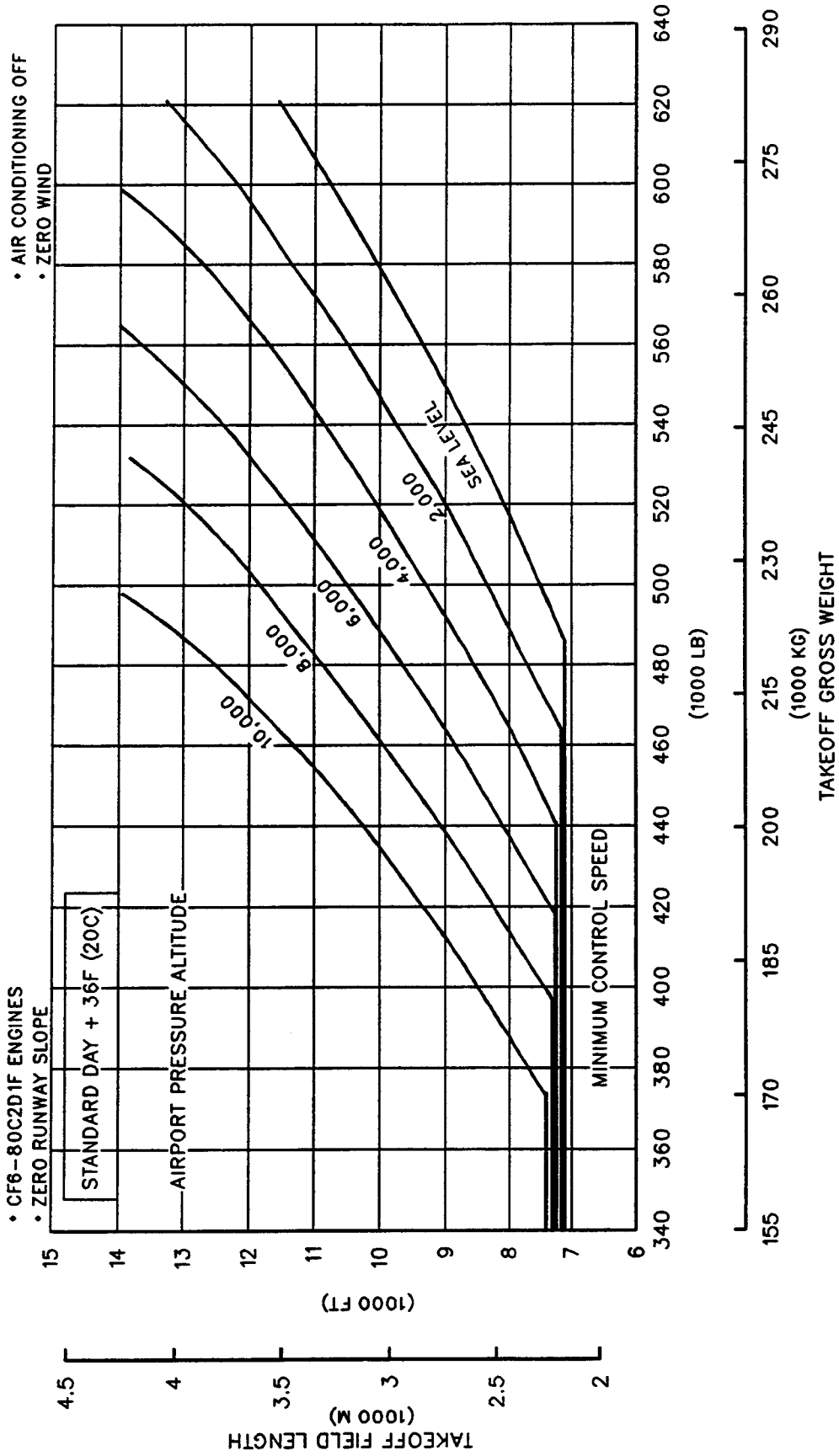
**3.3 FAR TAKEOFF FIELD LENGTH REQUIREMENTS  
3.3.1 STANDARD DAY  
MODEL MD-11 GE ENGINE**

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



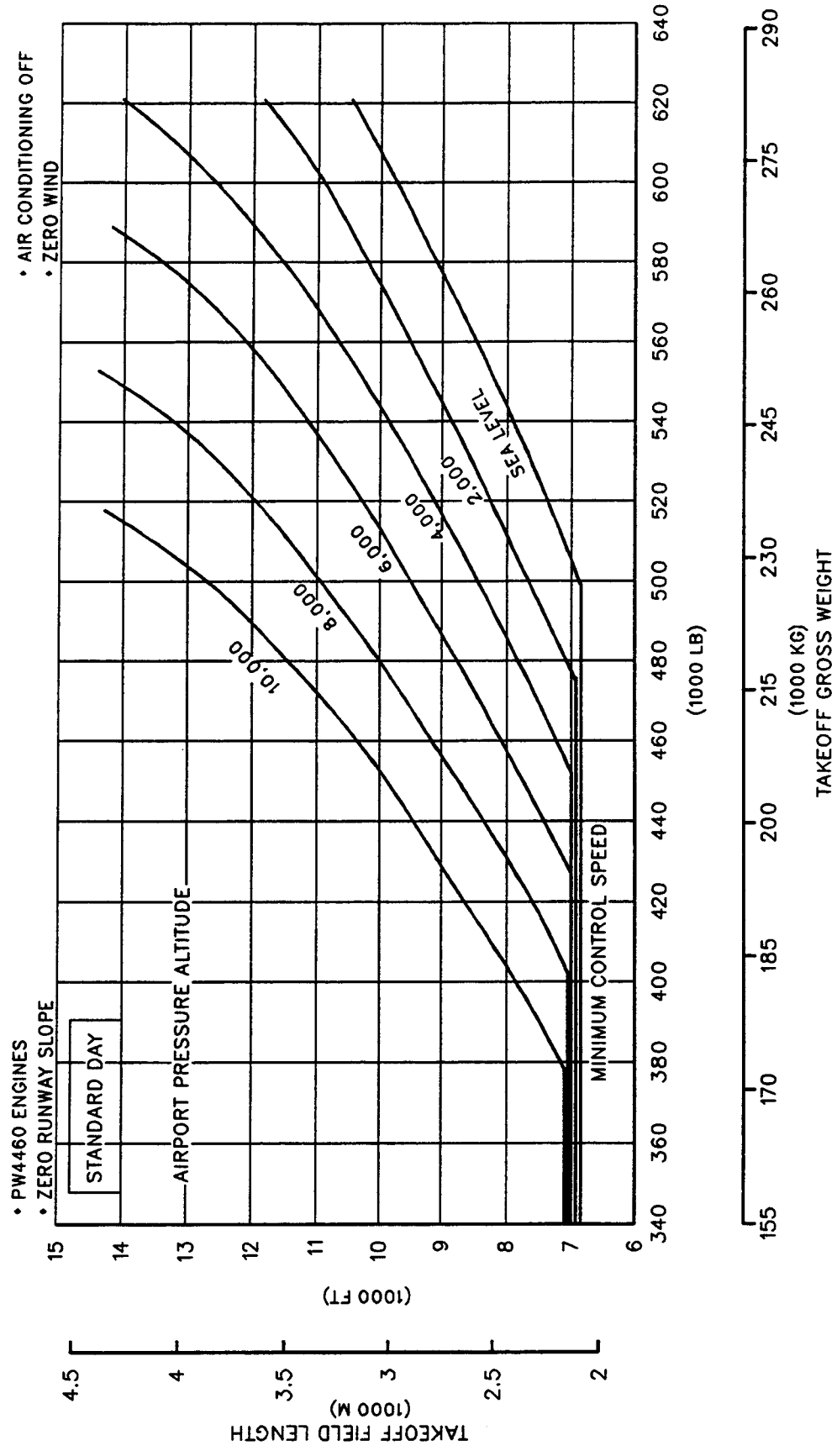
**3.3 FAR TAKEOFF FIELD LENGTH REQUIREMENTS**  
**3.3.2 STANDARD DAY + 27F (15C)**  
**MODEL MD-11 GE ENGINE**

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



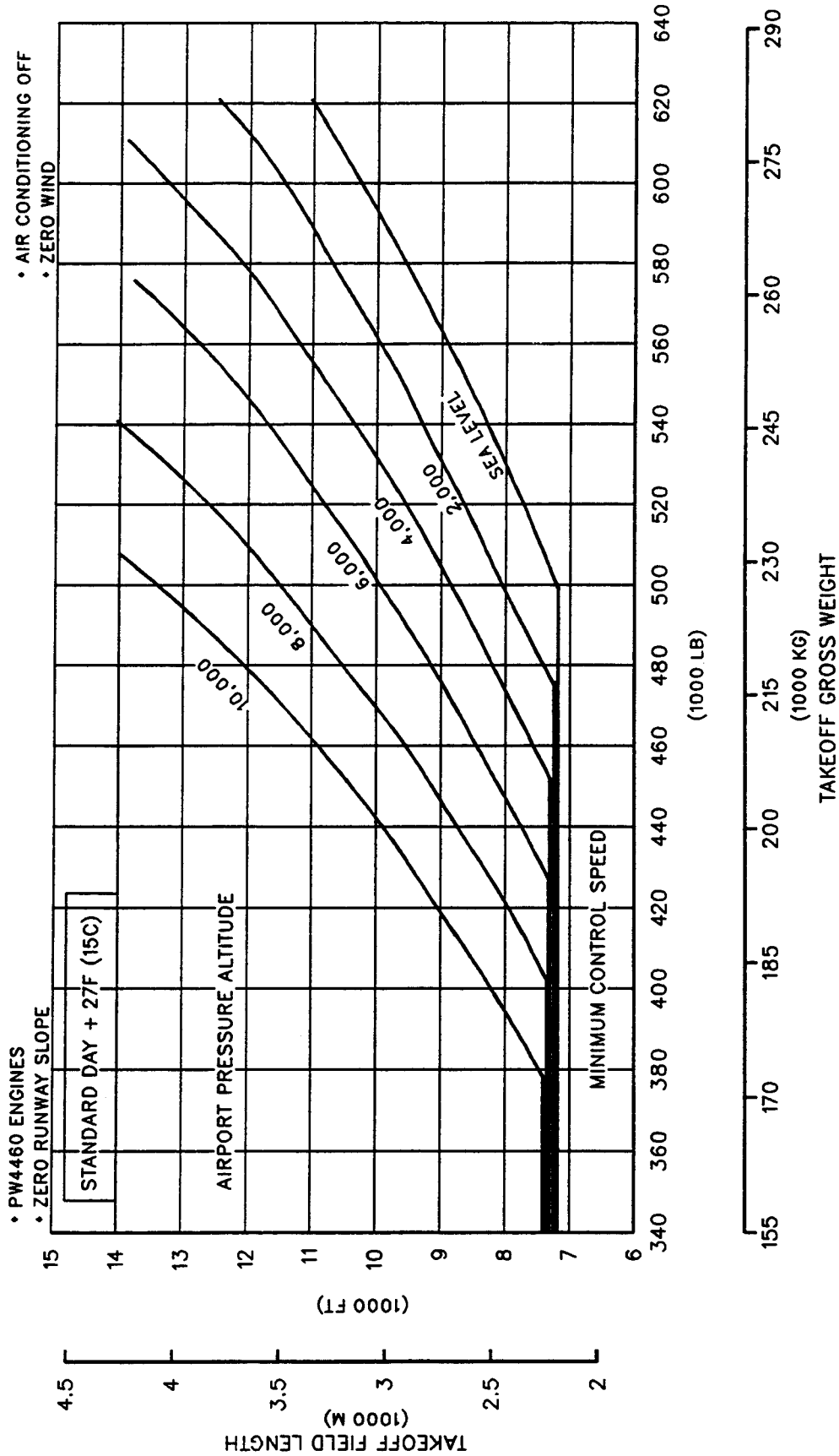
3.3 FAR TAKEOFF FIELD LENGTH REQUIREMENTS  
3.3.3 STANDARD DAY + 36F (20C)  
MODEL MD-11 GE ENGINE

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



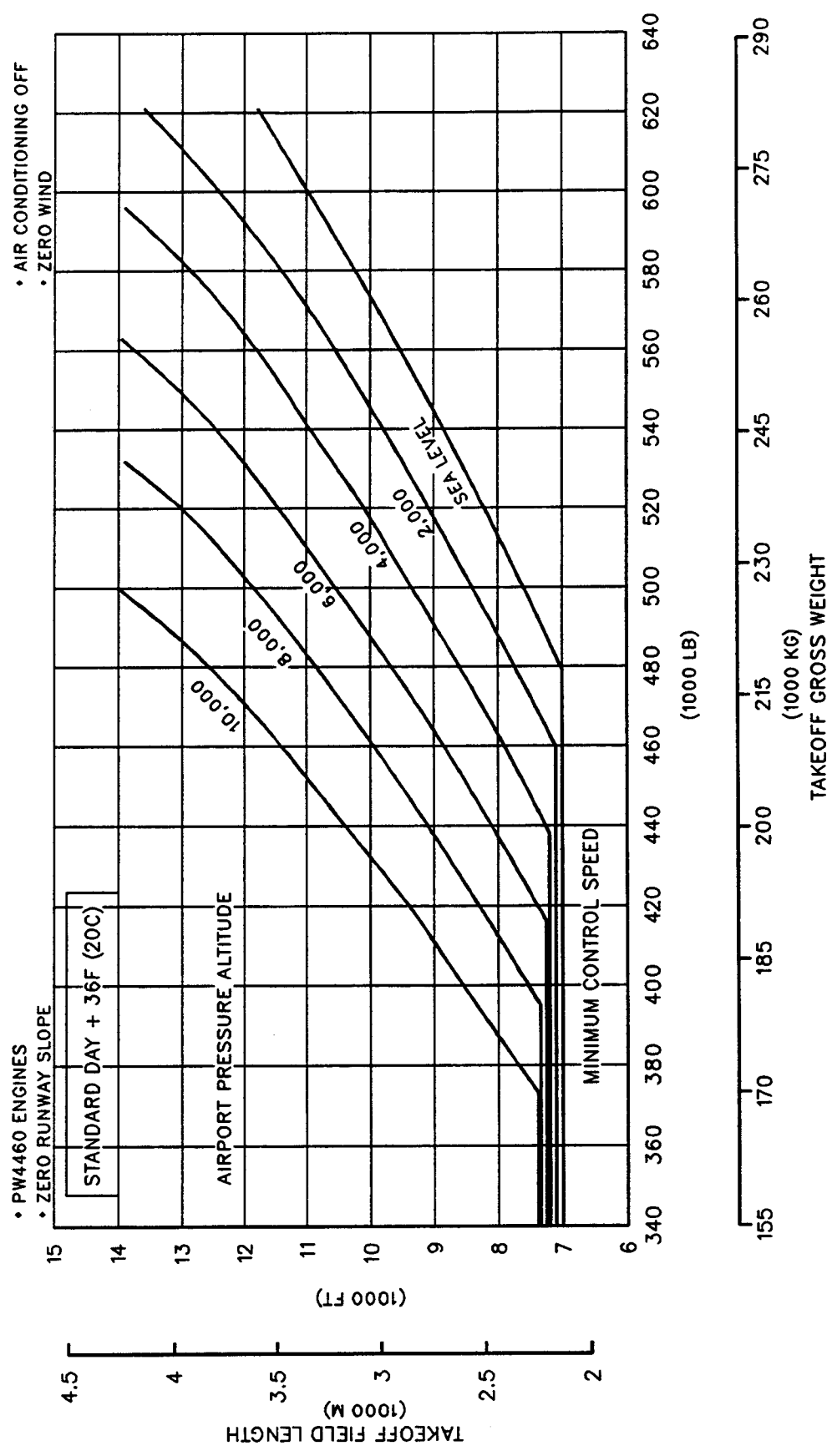
3.3 FAR TAKEOFF FIELD LENGTH REQUIREMENTS  
3.3.4 STANDARD DAY  
MODEL MD-11 PW ENGINE

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



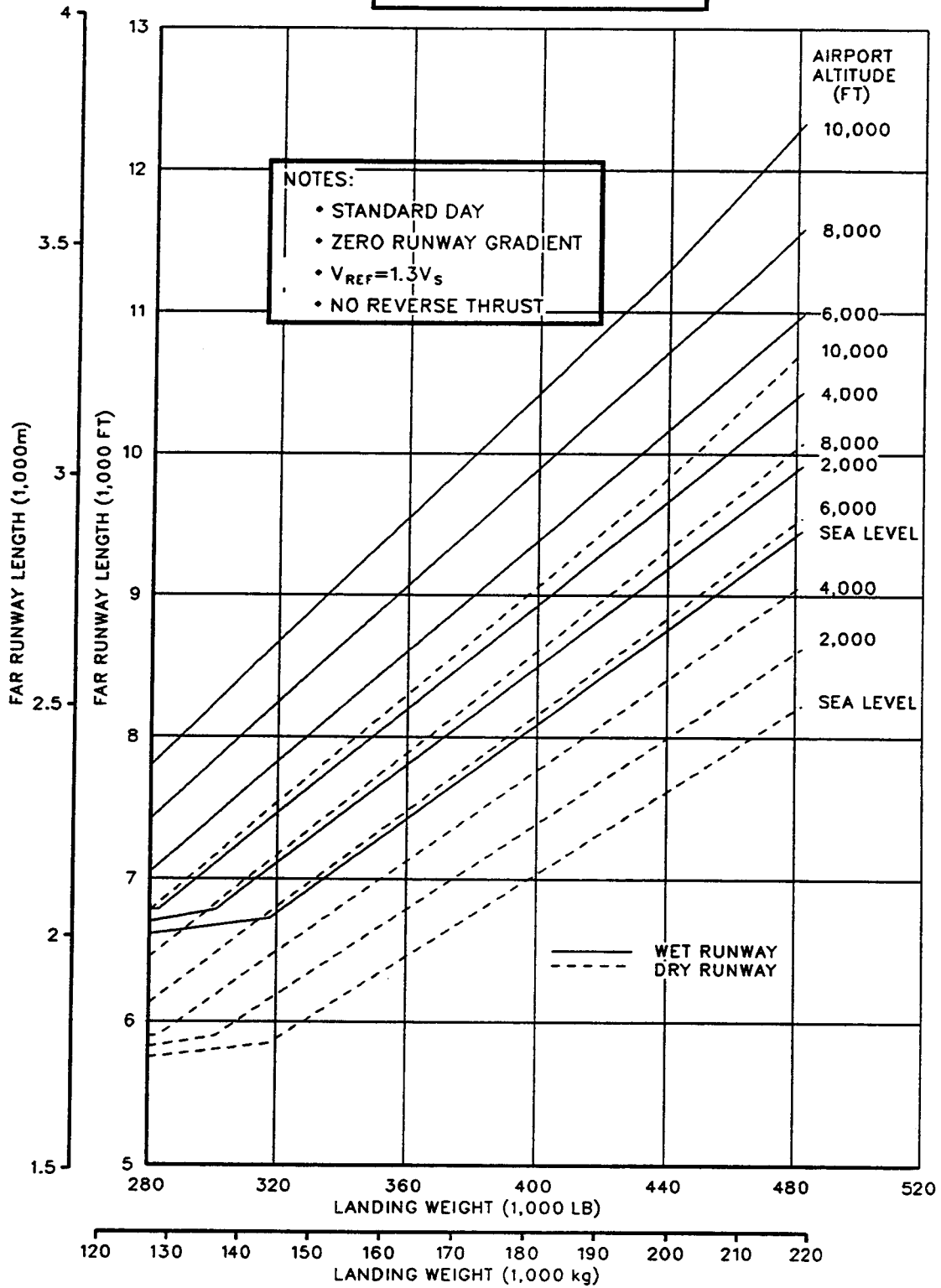
**3.3 FAR TAKEOFF FIELD LENGTH REQUIREMENTS**  
**3.3.5 STANDARD DAY + 27F (15C)**  
**MODEL MD-11 PW ENGINE**

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



**3.3 FAR TAKEOFF FIELD LENGTH REQUIREMENTS**  
**3.3.6 STANDARD DAY + 36F (20C)**  
**MODEL MD-11 PW ENGINE**

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



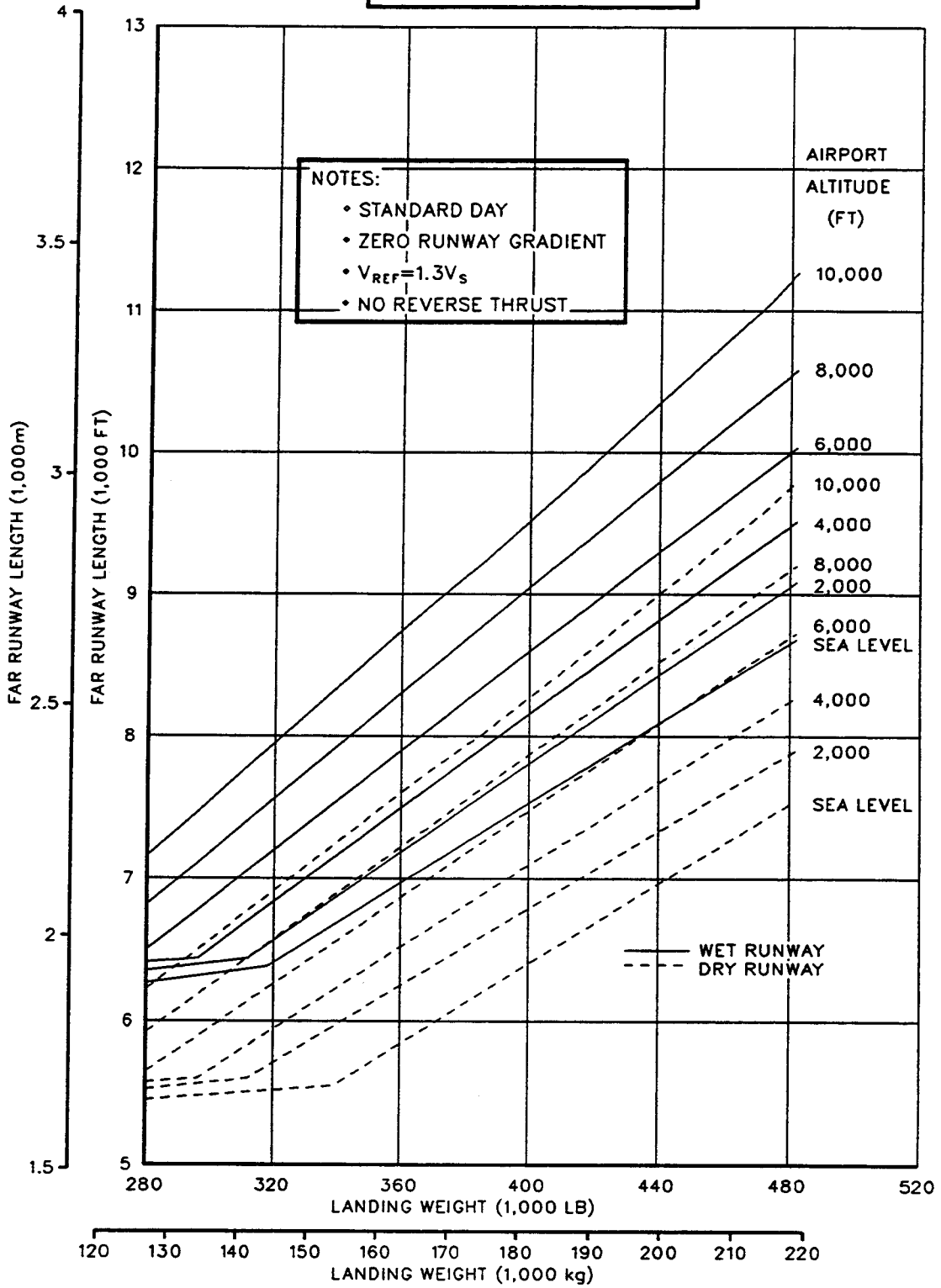
3.4 FAR LANDING RUNWAY LENGTH REQUIREMENTS

3.4.1 FLAPS 35 DEGREES

MODEL MD-11

REV D

NOT TO BE USED FOR  
FLIGHT PLANNING PURPOSES



**3.4 FAR LANDING RUNWAY LENGTH REQUIREMENTS**  
**3.4.2 FLAPS 50 DEGREES**  
**MODEL MD-11**

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