

3.0 AIRPLANE PERFORMANCE	Page
3.1 Payload/Range for Long-Range Cruise . . . . .	30
3.2 C.A.R. Takeoff Runway Length Requirements . . . . .	37

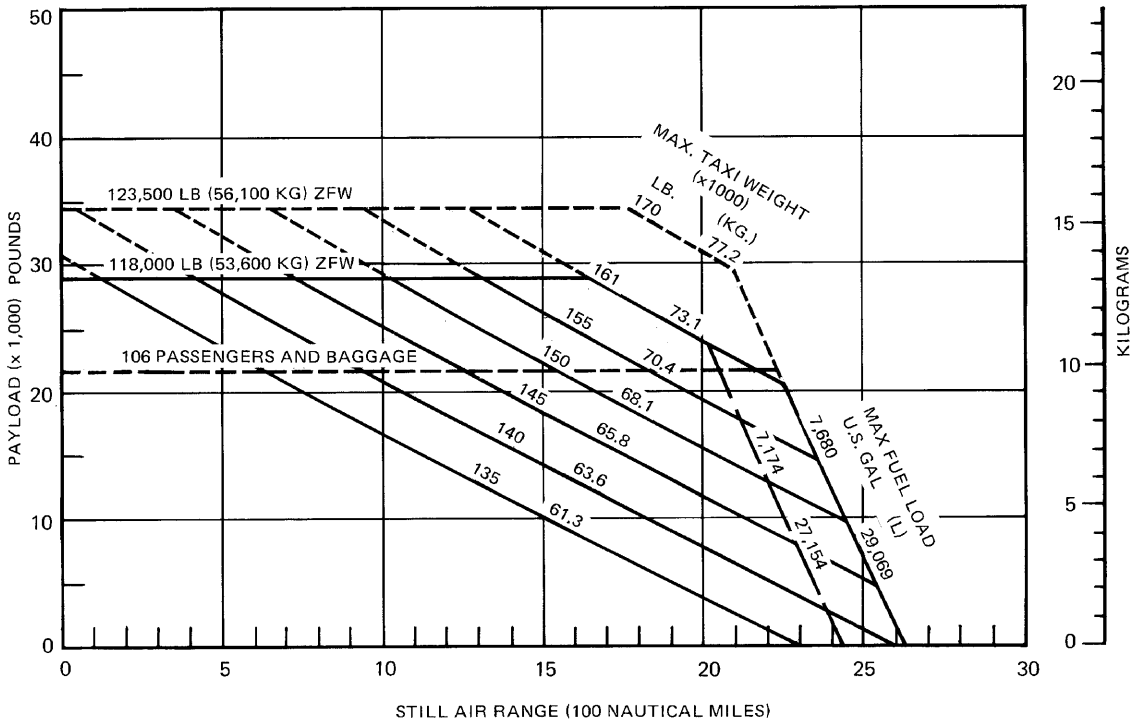
Standard day temperatures for the pressure altitudes shown on the C.A.R. Takeoff Runway charts are given below:

PRESSURE ALTITUDE		STANDARD DAY TEMP.	
FEET	METERS	°F	°C
0	0	59.0	15.0
2,000	610	51.9	11.0
4,000	1,219	44.7	7.1
6,000	1,829	37.6	3.1
8,000	2,438	30.5	0.83

3.3 C.A.R. Landing Runway Length Requirement . . . . .	51
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NOTES:

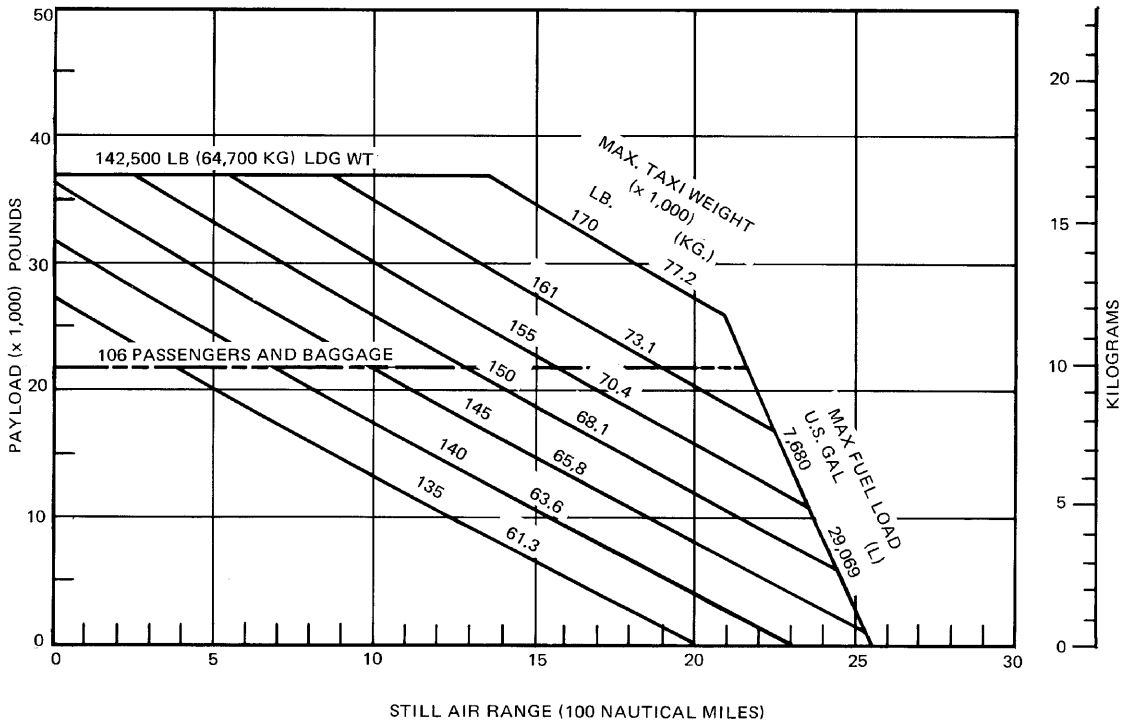
- TYPICAL AIRLINE OEW 89,000 LB (40,410 KG)
- LRC AT 30,000 AND 35,000 FT (9,140 AND 10,670 M)
- ATA DOMESTIC RESERVES
- JT8D-7 OR -9 ENGINES
- STANDARD DAY
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN



3.1 PAYLOAD/RANGE FOR LONG-RANGE CRUISE—(JT8D-7 OR -9 ENGINES)  
MODEL 727-100

NOTES:

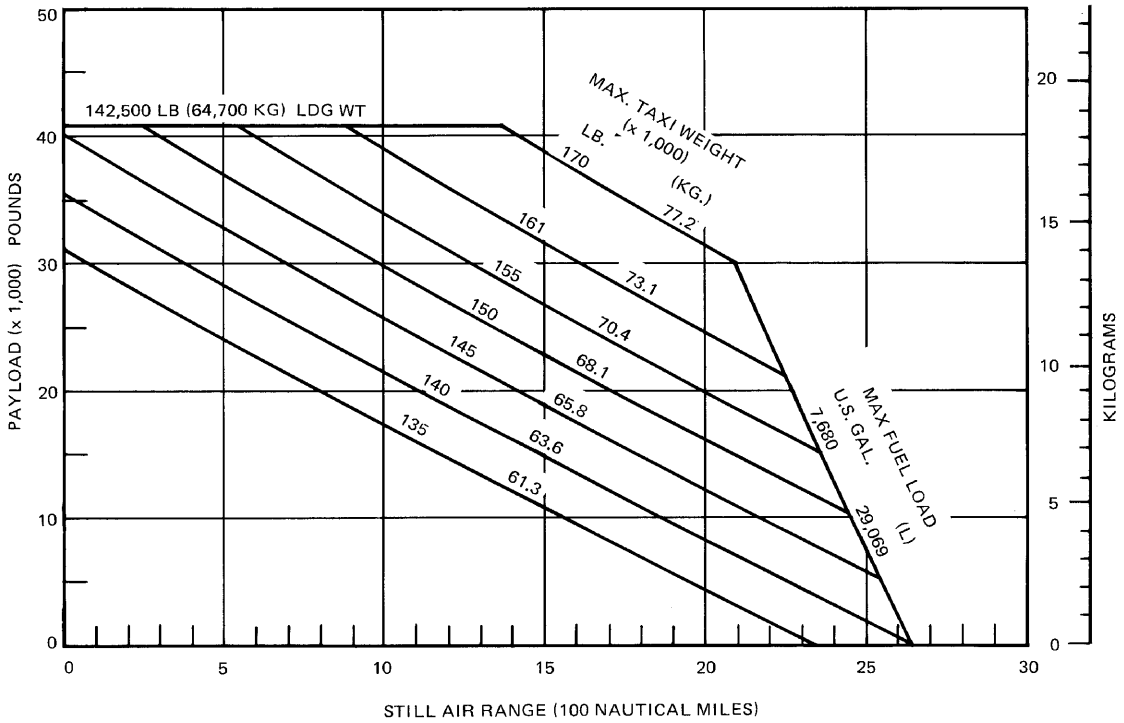
- PASSENGER CONFIGURATION
- TYPICAL AIRLINE OEW 92,500 LB (42,000 KG)
- LRC AT 30,000 AND 35,000 FT (9,140 AND 10,670 M)
- ATA DOMESTIC RESERVES
- JT8D-7 OR -9 ENGINES
- STANDARD DAY
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN



PAYLOAD/RANGE FOR LONG-RANGE CRUISE—(JT8D-7 OR -9 ENGINES)  
 MODEL 727-100C PASSENGER CONFIGURATION

NOTES

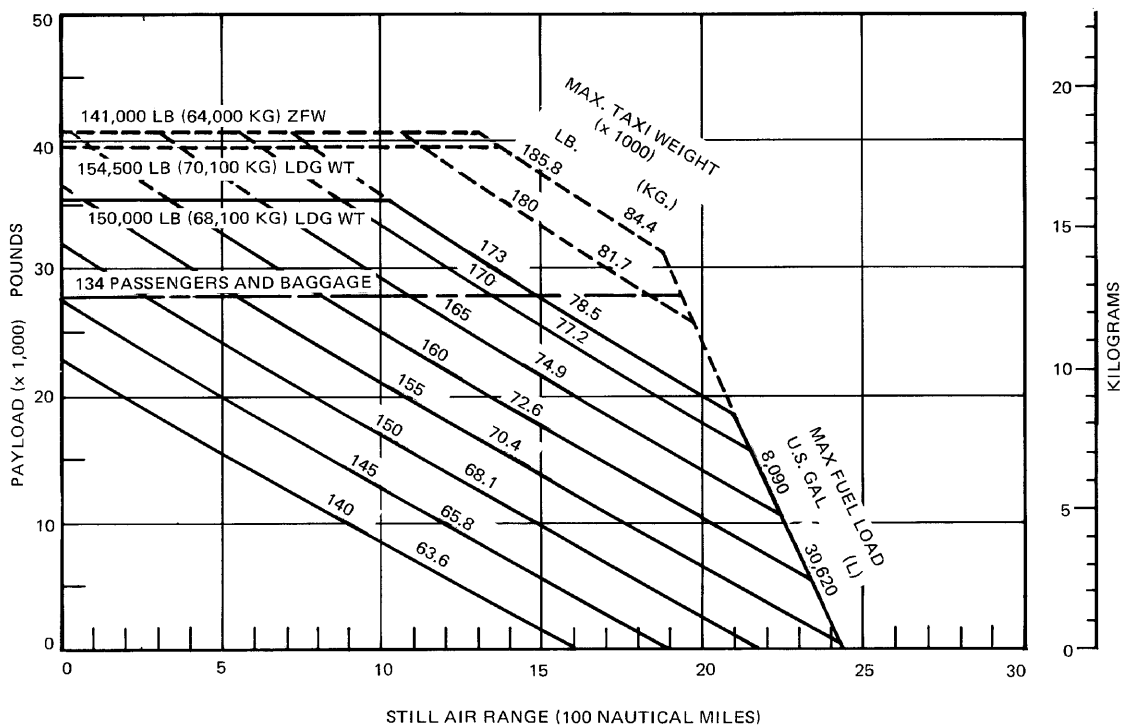
- CARGO CONFIGURATION
- TYPICAL AIRLINE OEW 88,500 LB (40,180 KG)
- LRC AT 30,000 AND 35,000 FT (9,140 AND 10,670 M)
- ATA DOMESTIC RESERVES
- JT8D-7 OR -9 ENGINES
- STANDARD DAY
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN



PAYLOAD/RANGE FOR LONG-RANGE CRUISE—(JT8D-7 OR -9 ENGINES)  
 MODEL 727-100C CARGO CONFIGURATION

NOTES:

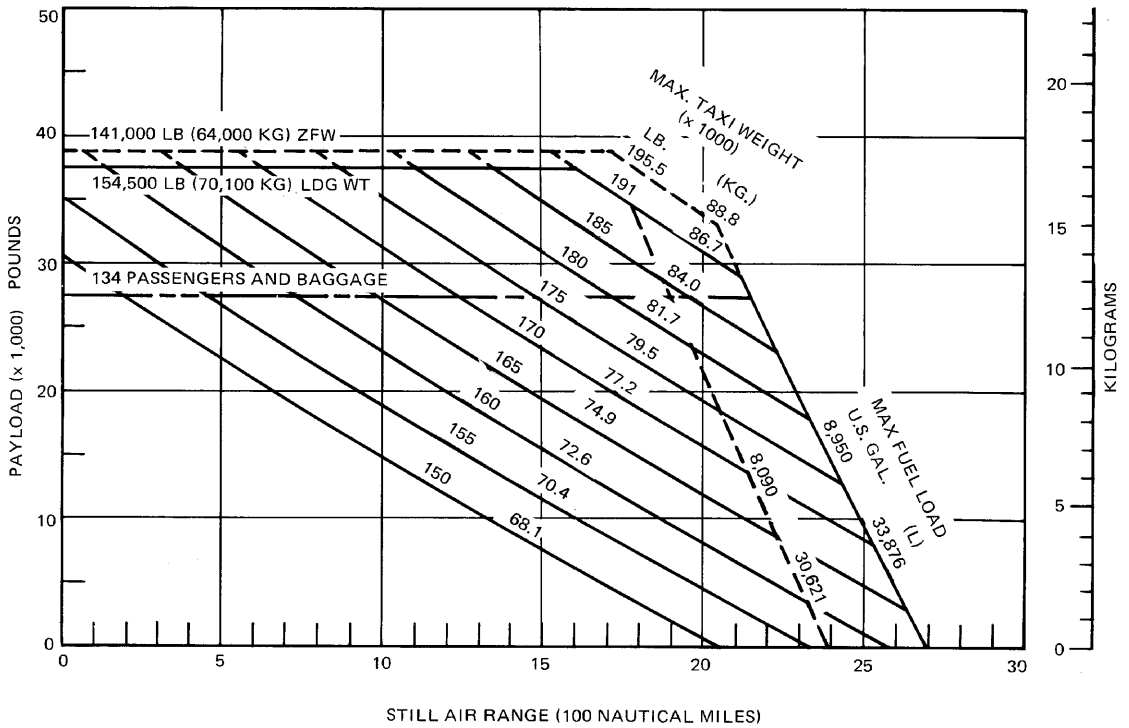
- TYPICAL AIRLINE OEW 100,350 LB (45,560 KG)
- LRC AT 30,000 AND 35,000 FT (9,140 AND 10,670 M)
- ATA DOMESTIC RESERVES
- JT8D-7 OR -9 ENGINES
- STANDARD DAY
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN



PAYLOAD/RANGE FOR LONG-RANGE CRUISE—(JT8D-7 ENGINES, STANDARD MODEL).  
 MODEL 727-200  
 —(JT8D-9 ENGINES, STANDARD  
 OR ADVANCED MODELS).

NOTES:

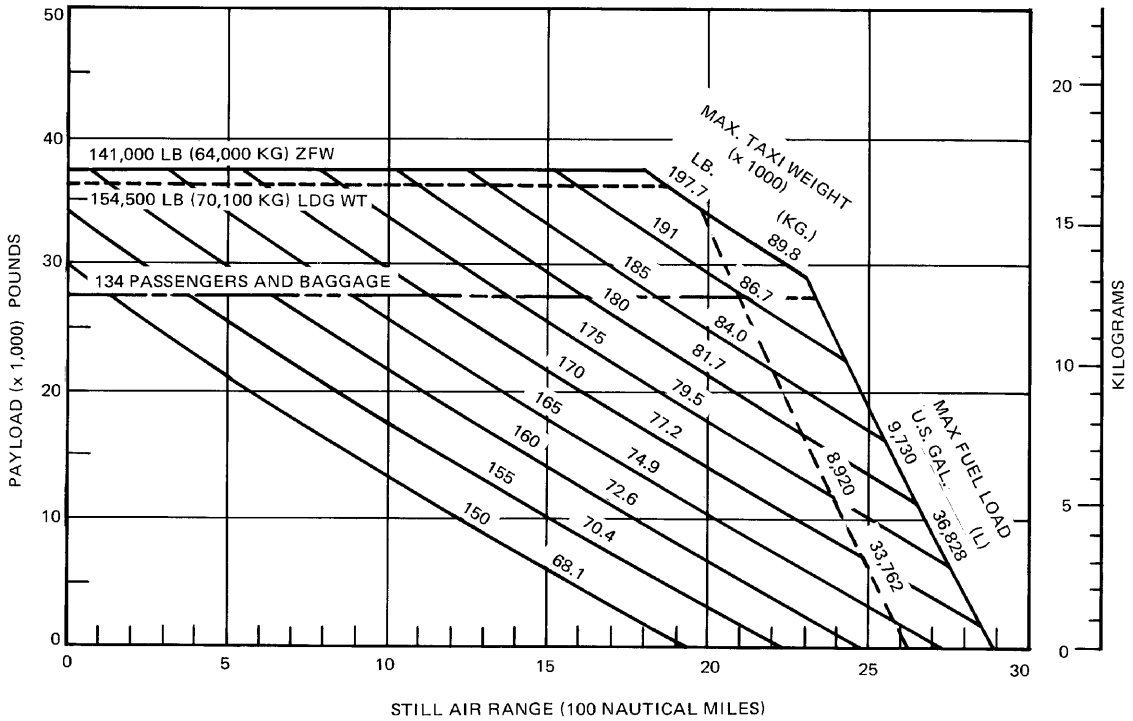
- TYPICAL AIRLINE OEW 102,215 LB (46,410 KG)
- LRC AT 31,000 and 35,000 FT (9,450 AND 10,670 M)
- ATA DOMESTIC RESERVES
- JT8D-15 ENGINES
- STANDARD DAY
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN



**PAYLOAD/RANGE FOR LONG-RANGE CRUISE—(JT8D-15 ENGINES)**  
*MODEL ADVANCED 727-200*

NOTES:

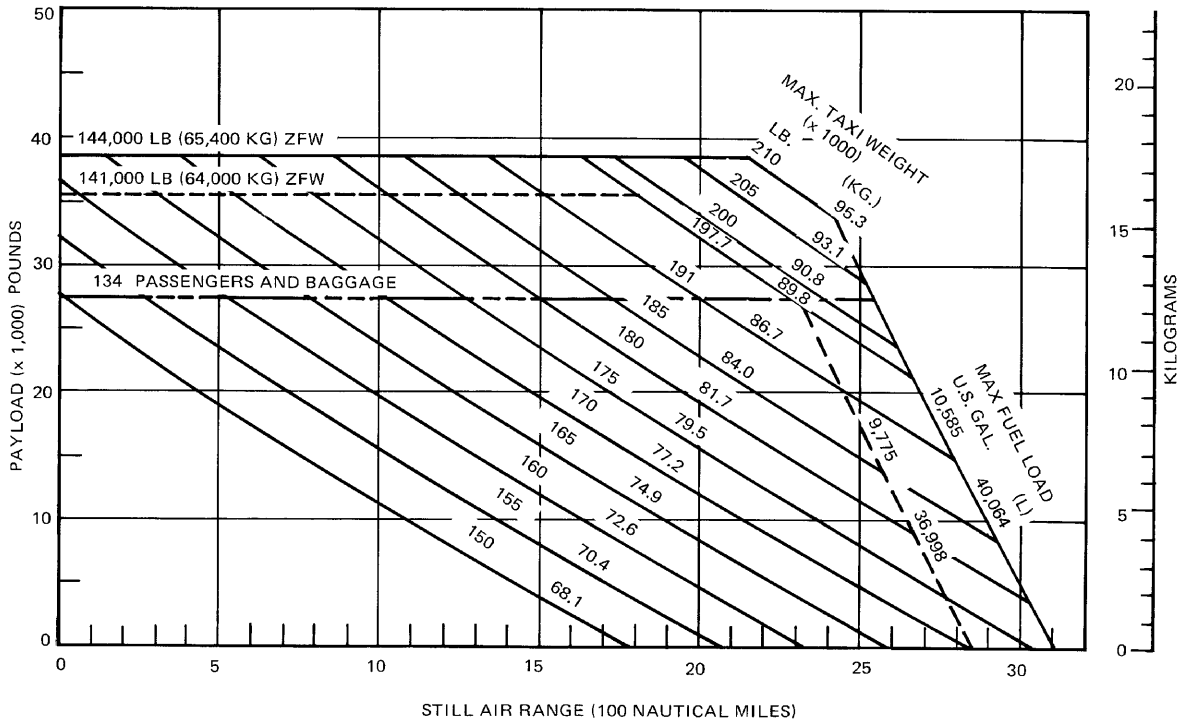
- TYPICAL AIRLINE OEW 103,480 LB (46,980 KG)
- LRC AT 31,000 AND 35,000 FT (9,450 AND 10,670 M)
- ATA DOMESTIC RESERVES
- JT8D-17 ENGINES
- STANDARD DAY
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN



**PAYLOAD/RANGE FOR LONG-RANGE CRUISE—(JT8D-17 ENGINES)**  
**MODEL ADVANCED 727-200**

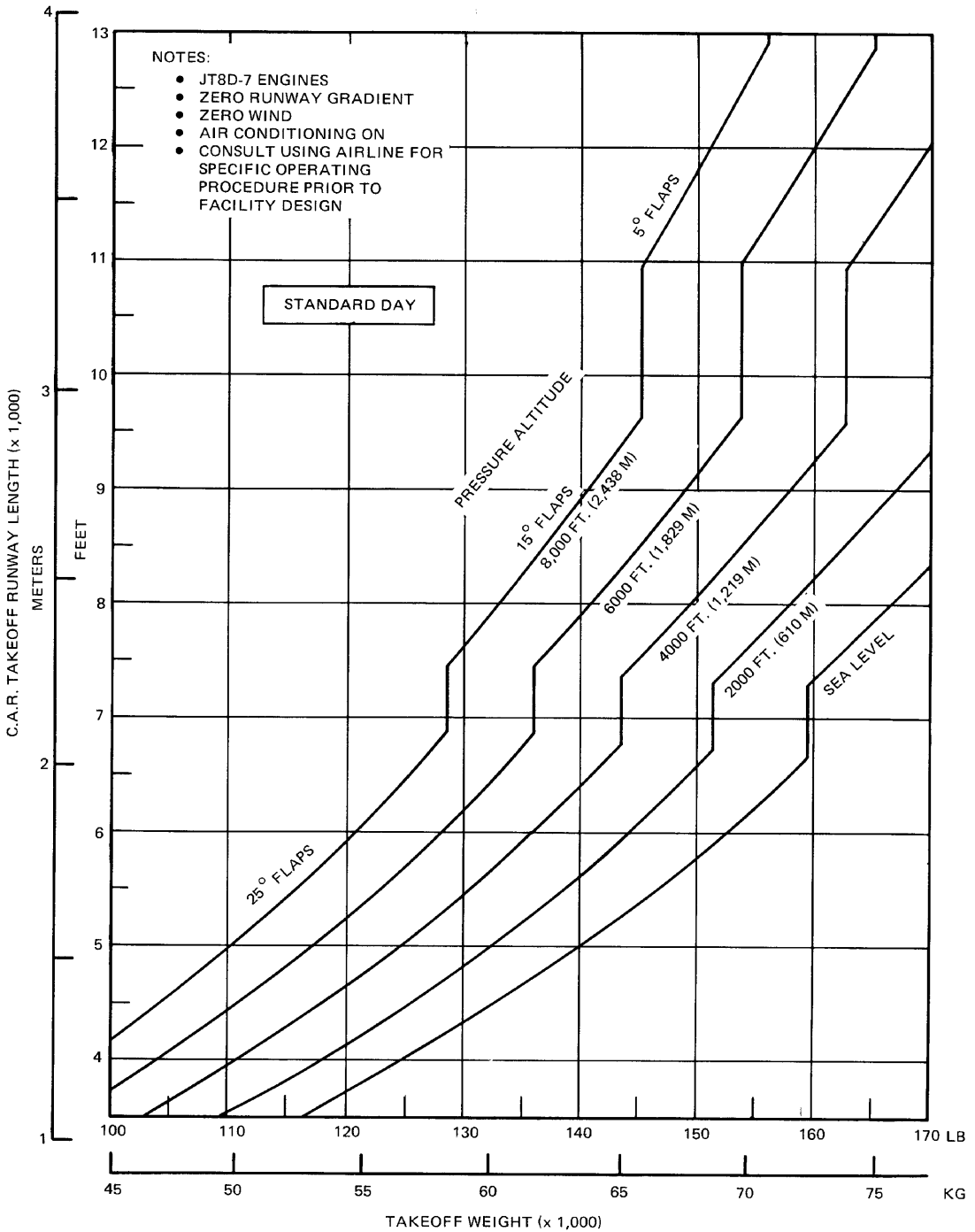
**NOTES:**

- TYPICAL AIRLINE OEW 105,470 LB (47,880 KG)
- LRC AT 31,000 AND 35,000 FT (9,450 AND 10,670 M)
- ATA DOMESTIC RESERVES
- JT8D-17R ENGINES
- STANDARD DAY
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN

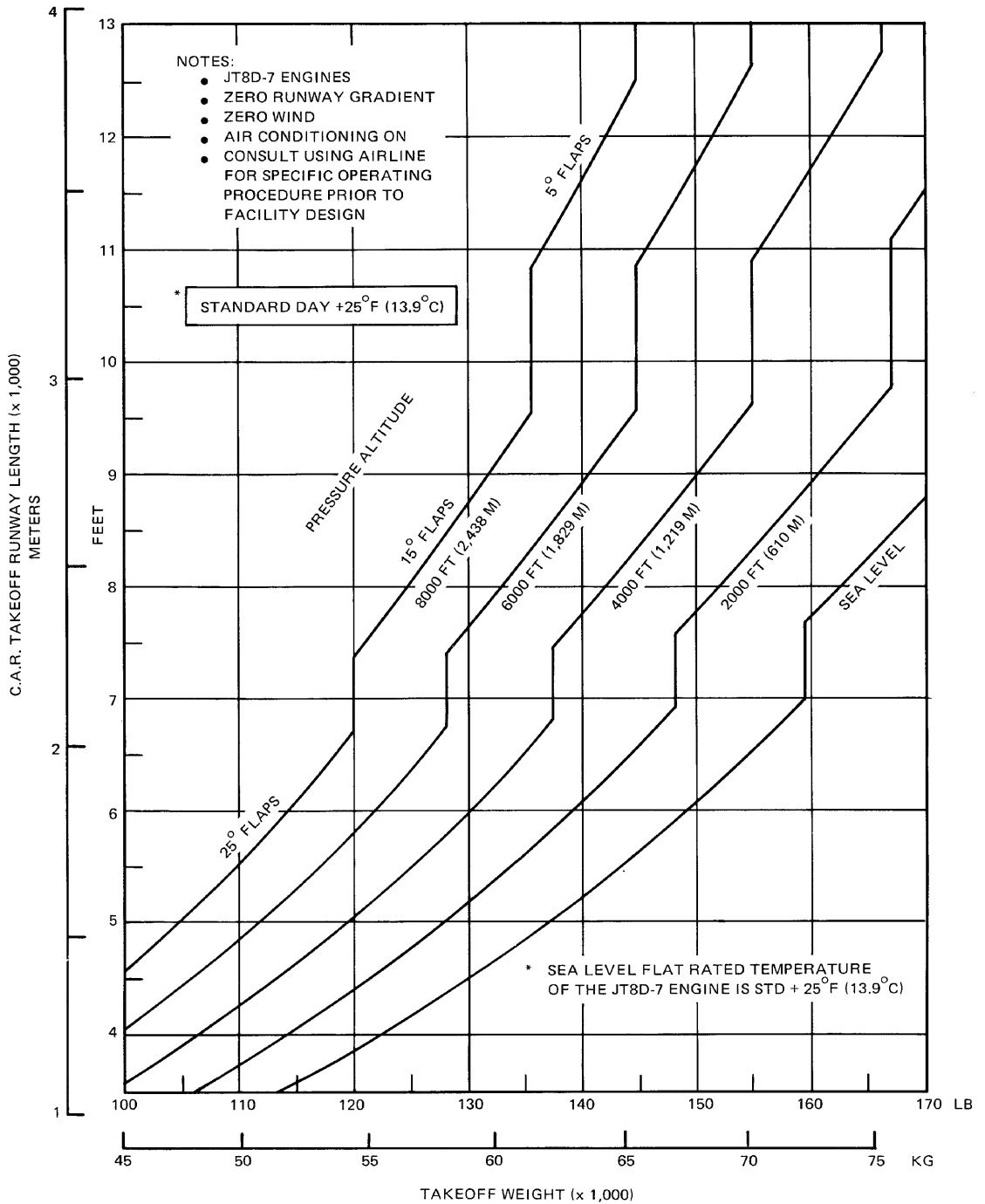


**PAYLOAD/RANGE FOR LONG-RANGE CRUISE—(JT8D-17R ENGINES)**  
*MODEL ADVANCED 727-200*

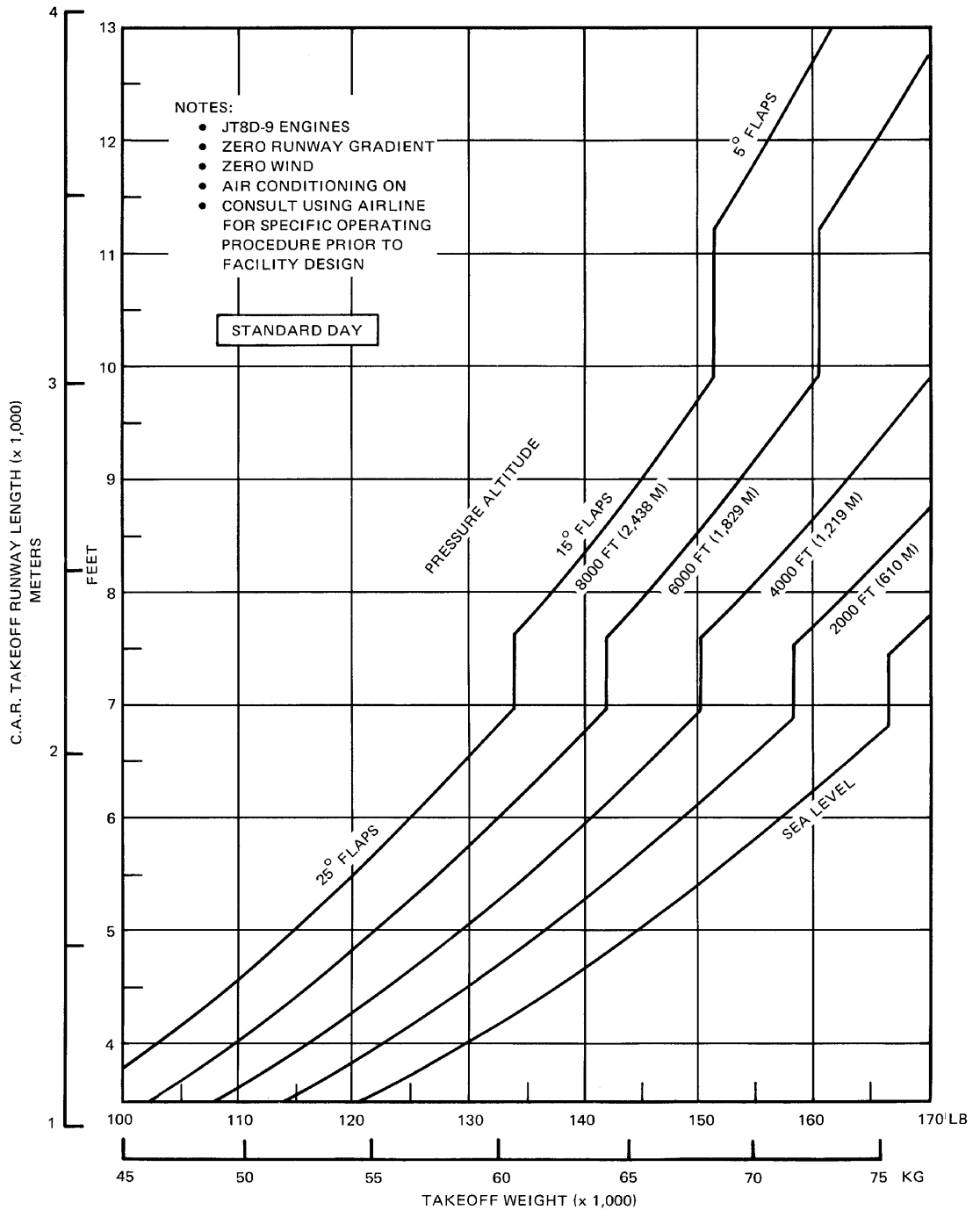




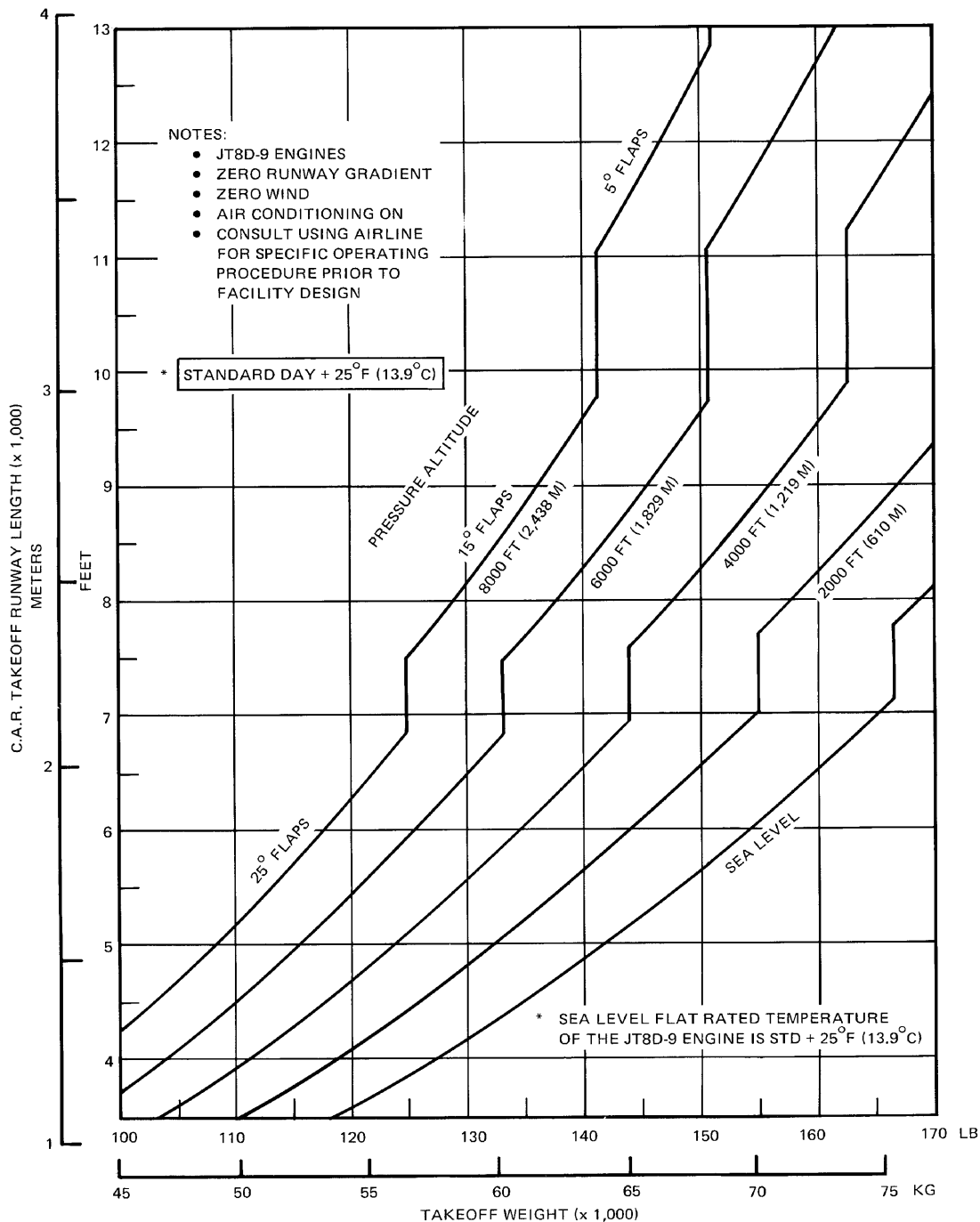
**3.2 C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-7 ENGINES)—STANDARD DAY MODELS 727-100, -100C**



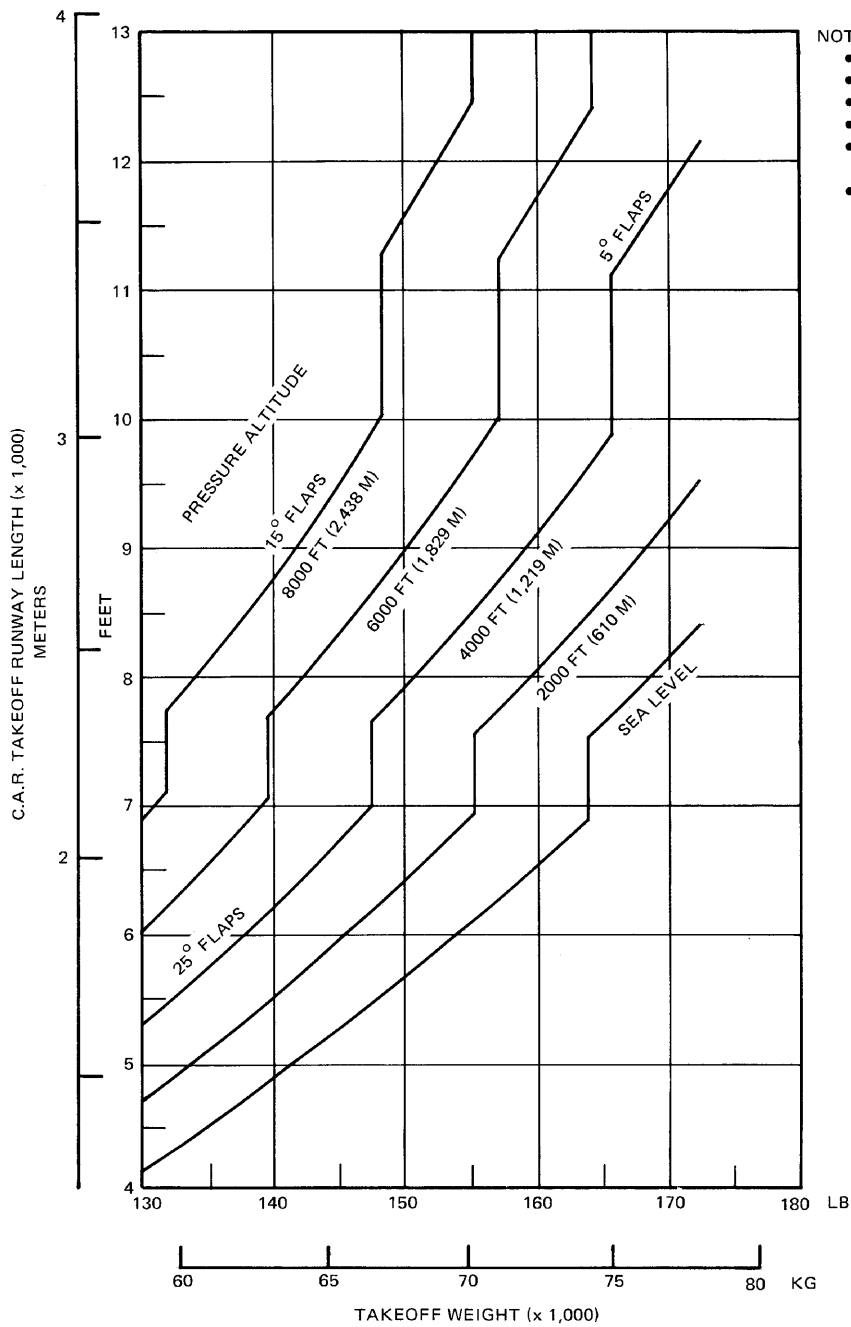
**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-7 ENGINES)—  
STANDARD DAY + 25°F (13.9°C)  
MODELS 727-100, -100C**



**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-9 ENGINES)—STANDARD DAY**  
 MODELS 727-100, -100C



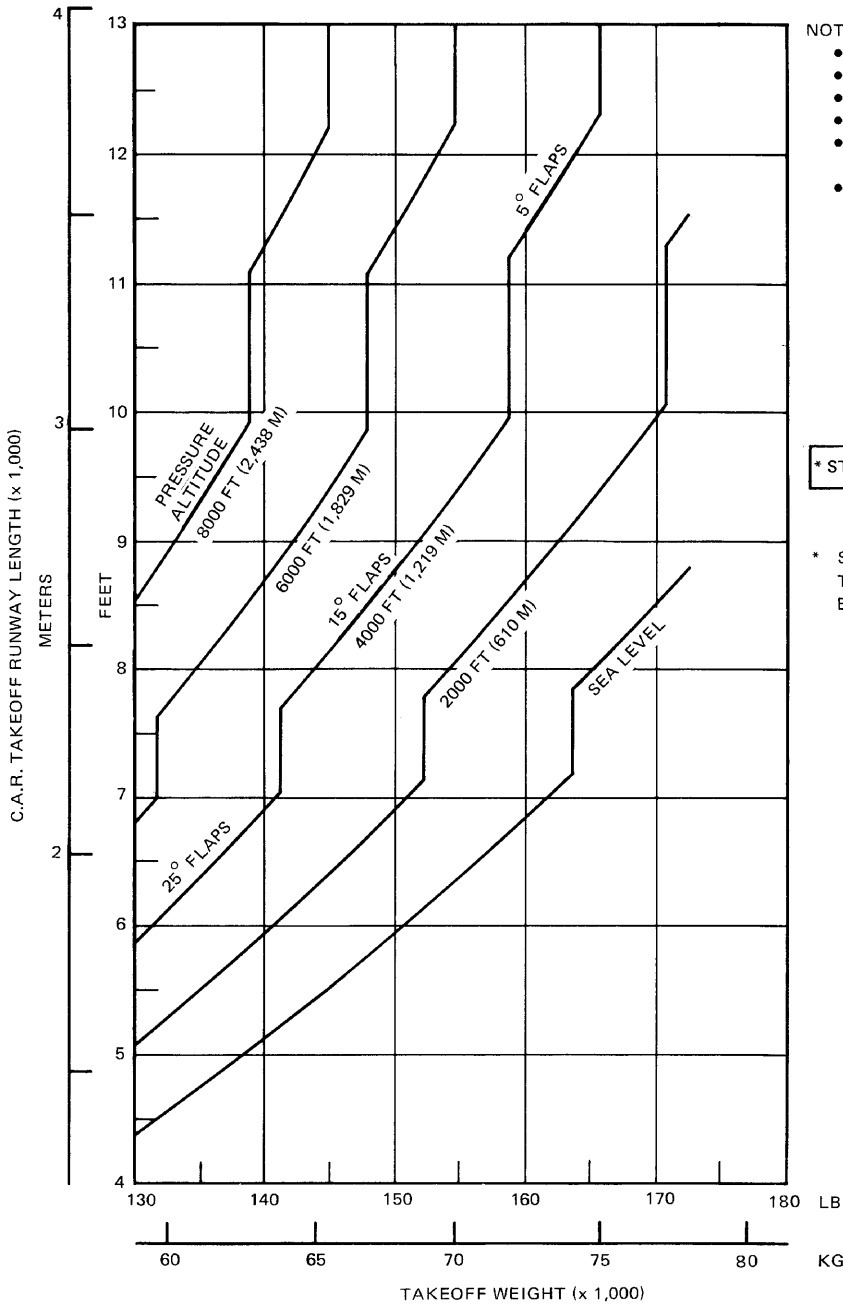
**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-9 ENGINES)—  
 STANDARD DAY + 25°F (13.9°C)  
 MODELS 727-100, -100C**



- NOTES:
- JT8D-7 ENGINES
  - ZERO RUNWAY GRADIENT
  - ZERO WIND
  - AIR CONDITIONING ON
  - AUTO BLEED SHUTOFF OPERATIVE
  - CONSULT USING AIRLINE PROCEDURE PRIOR TO FACILITY DESIGN

STANDARD DAY

C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-7 ENGINES)—STANDARD DAY  
MODELS 727-200 STANDARD



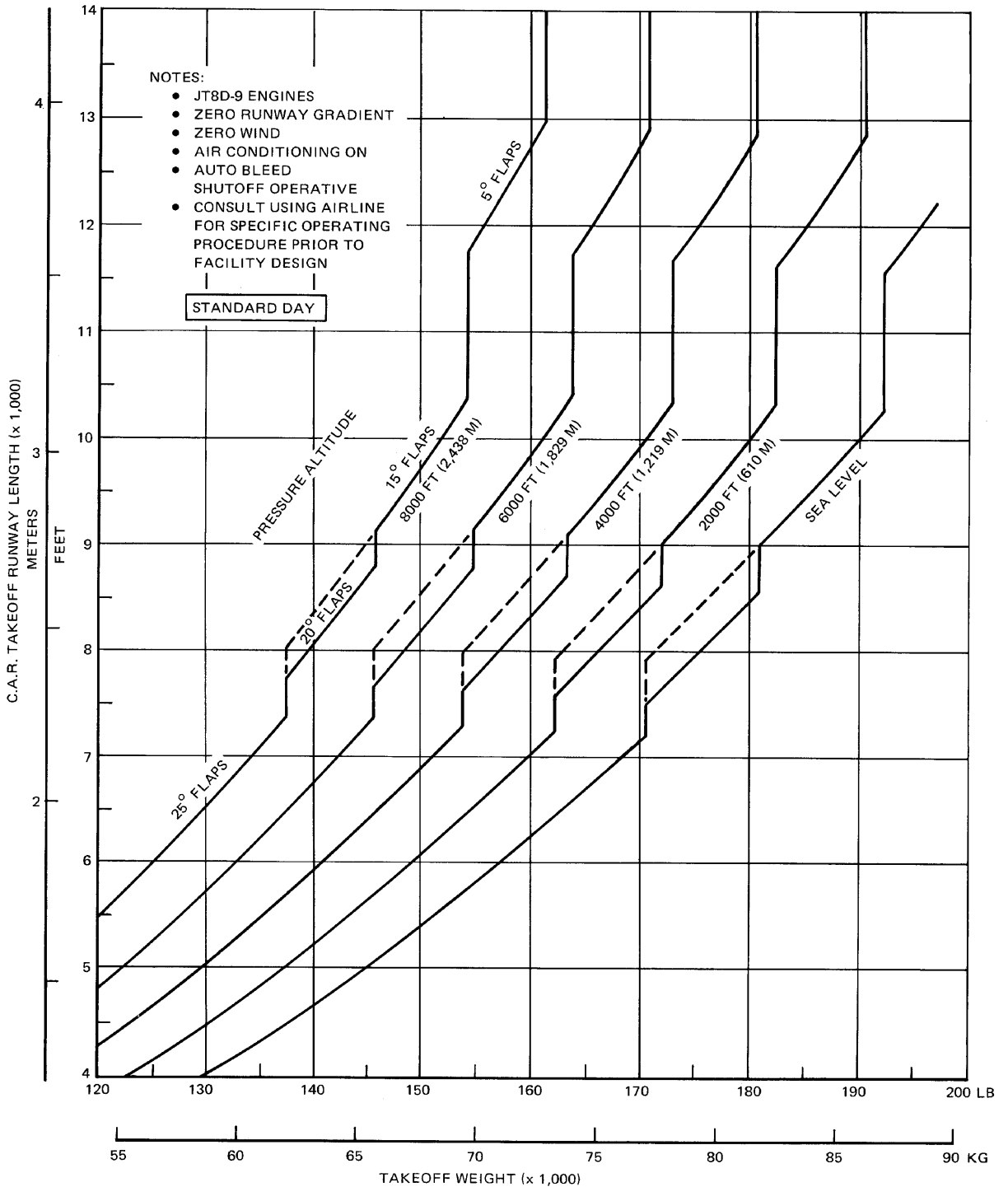
NOTES:

- JT8D-7 ENGINES
- ZERO RUNWAY GRADIENT
- ZERO WIND
- AIR CONDITIONING ON
- AUTO BLEED SHUTOFF OPERATIVE
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN

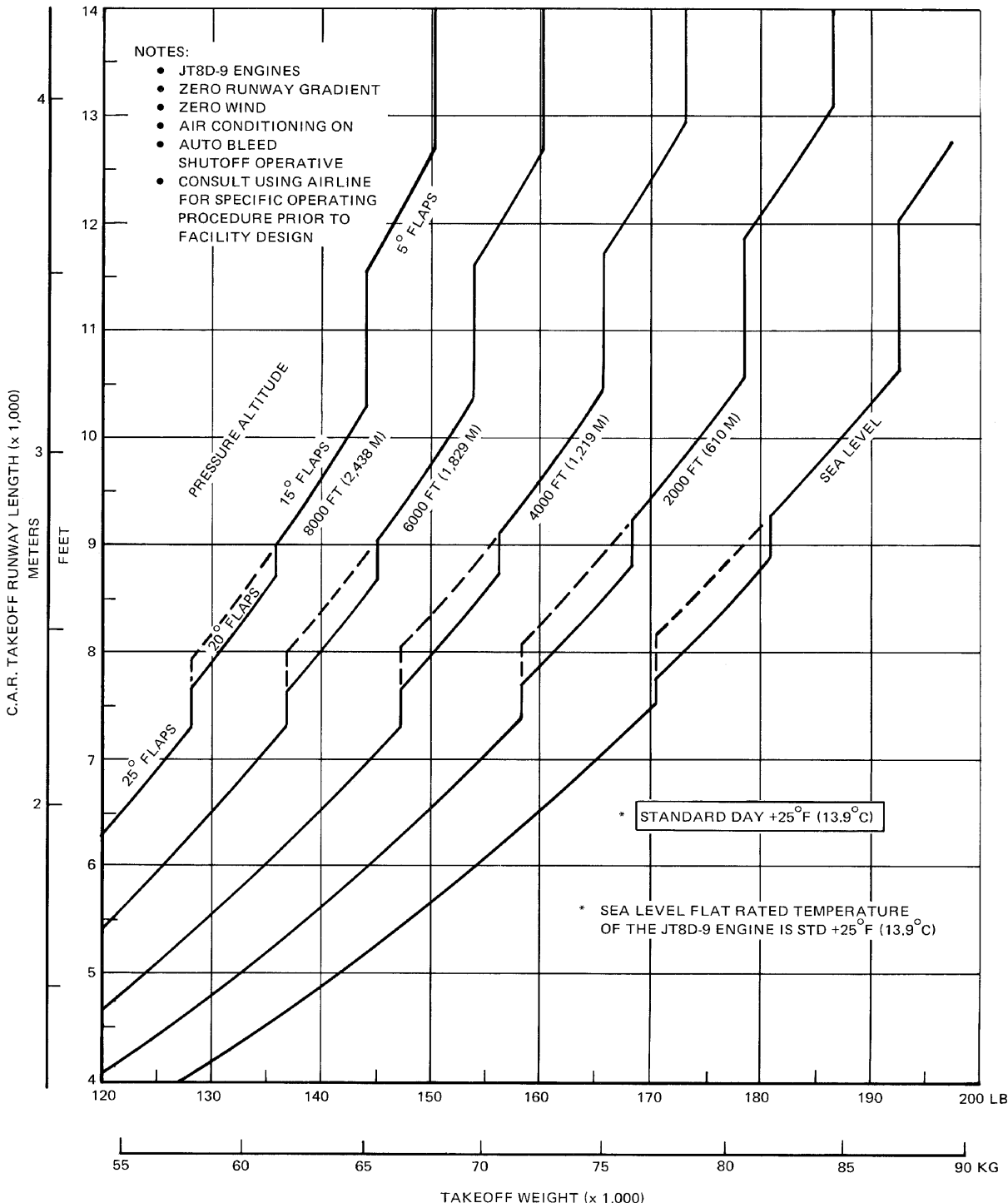
\* STANDARD DAY +25°F (13.9°C)

\* SEA LEVEL FLAT RATED TEMPERATURE OF THE JT8D-7 ENGINE IS STD +25°F (13.9°C)

**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-7 ENGINES)—**  
**STANDARD DAY + 25°F (13.9°C)**  
*MODELS 727-200 STANDARD*

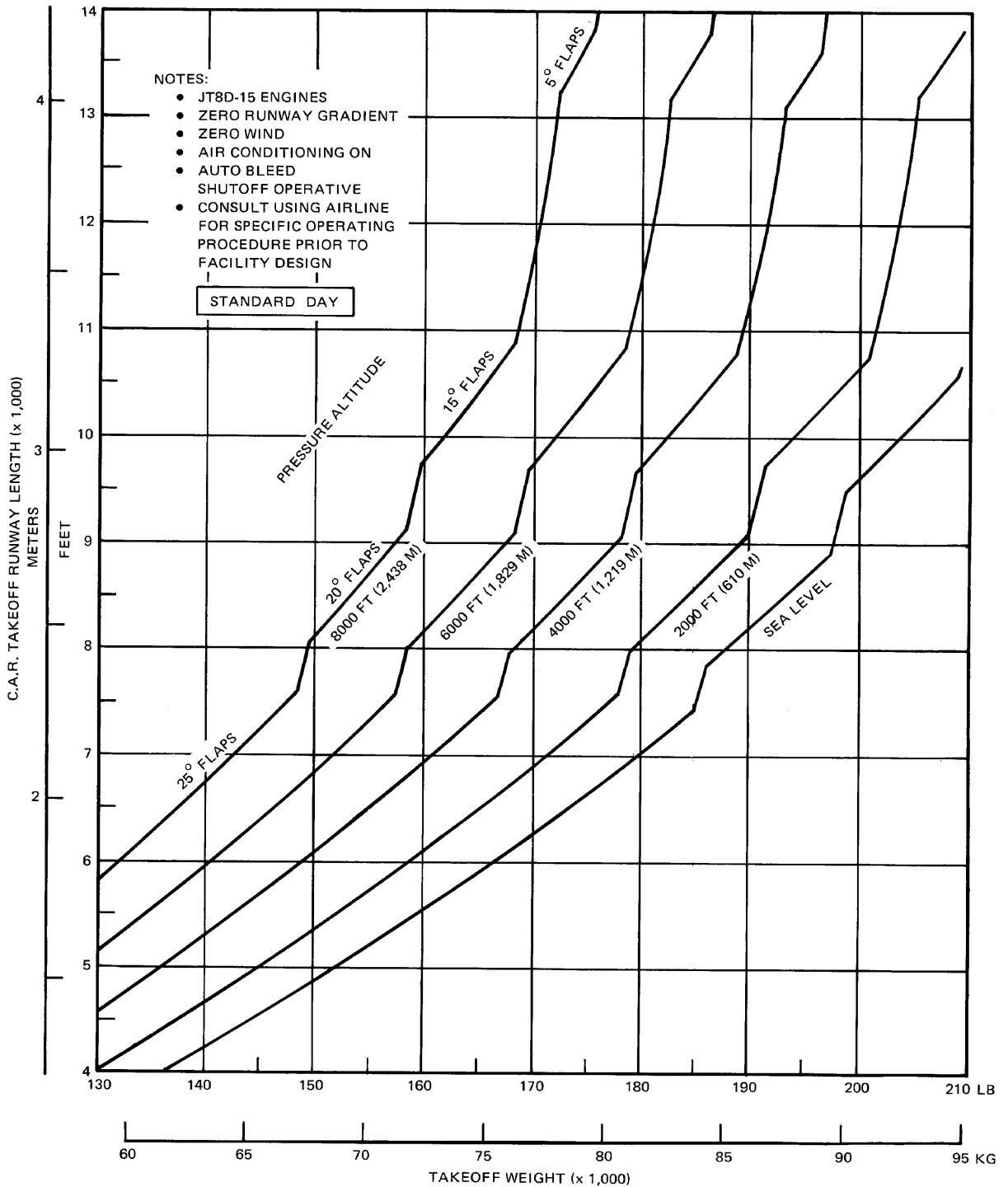


**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-9 ENGINES)—STANDARD DAY**  
*MODELS 727-200 STANDARD OR ADVANCED*

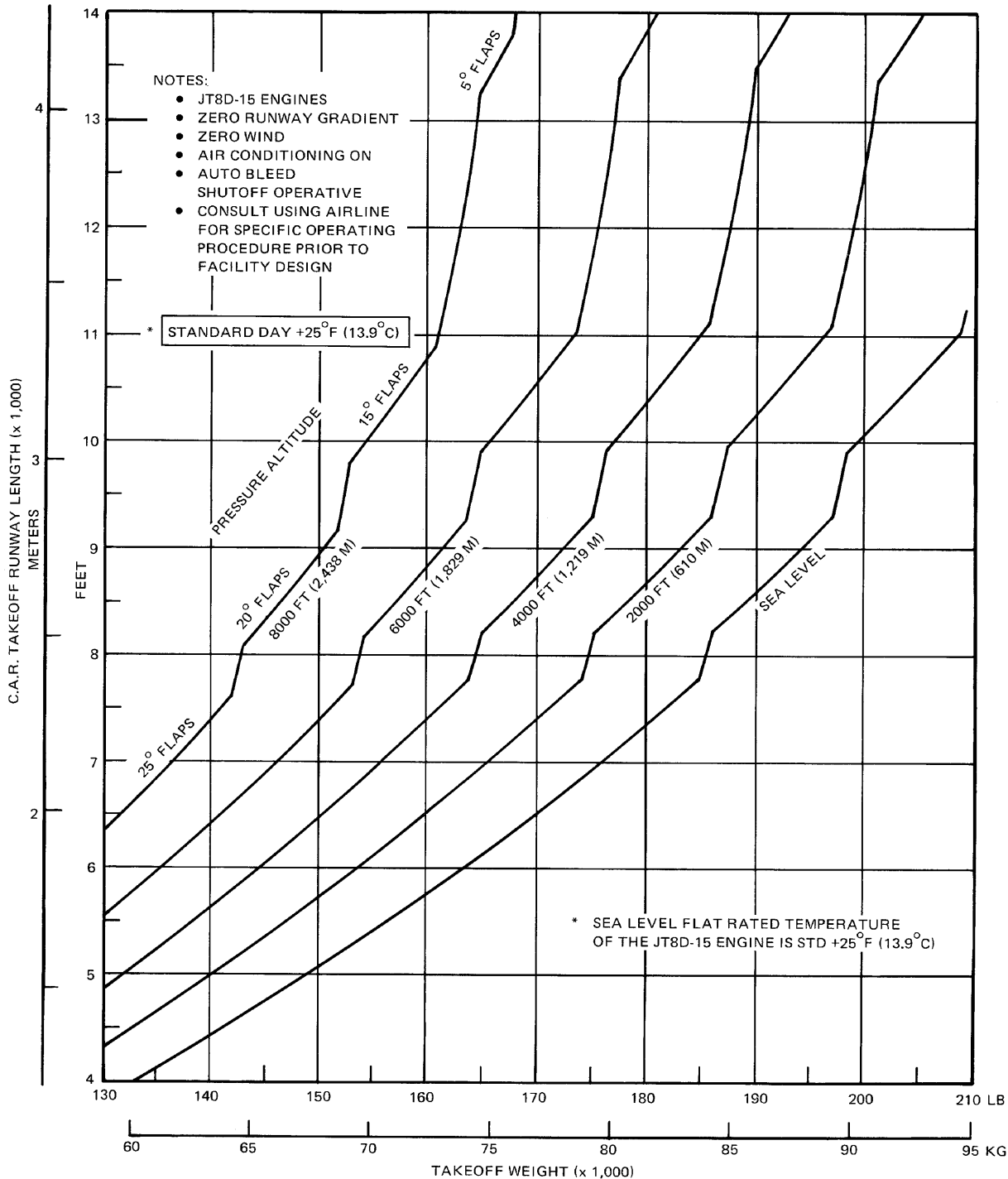


**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-9 ENGINES)—  
 STANDARD DAY + 25°F (13.9°C)  
 MODELS 727-200 STANDARD OR ADVANCED**

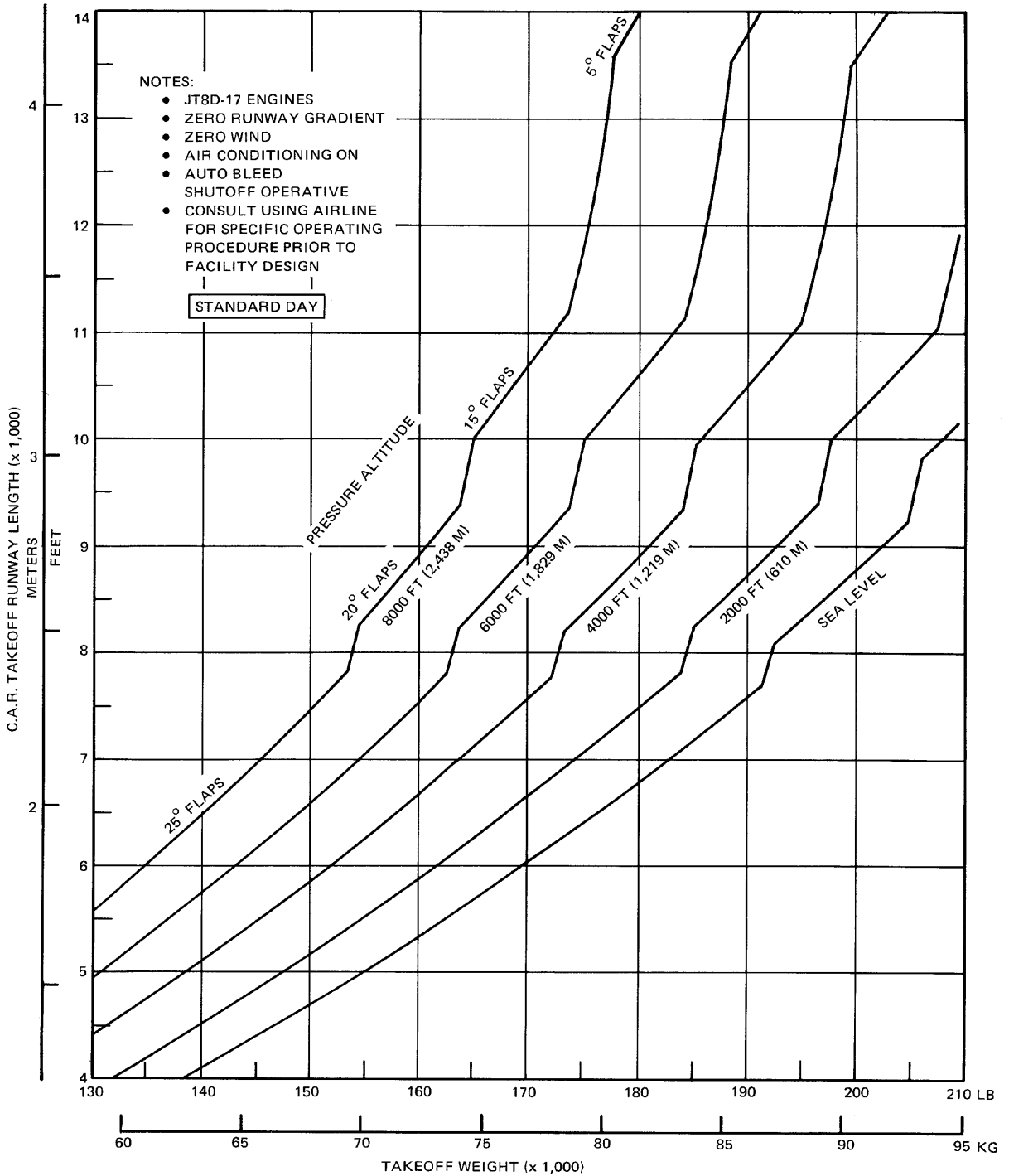




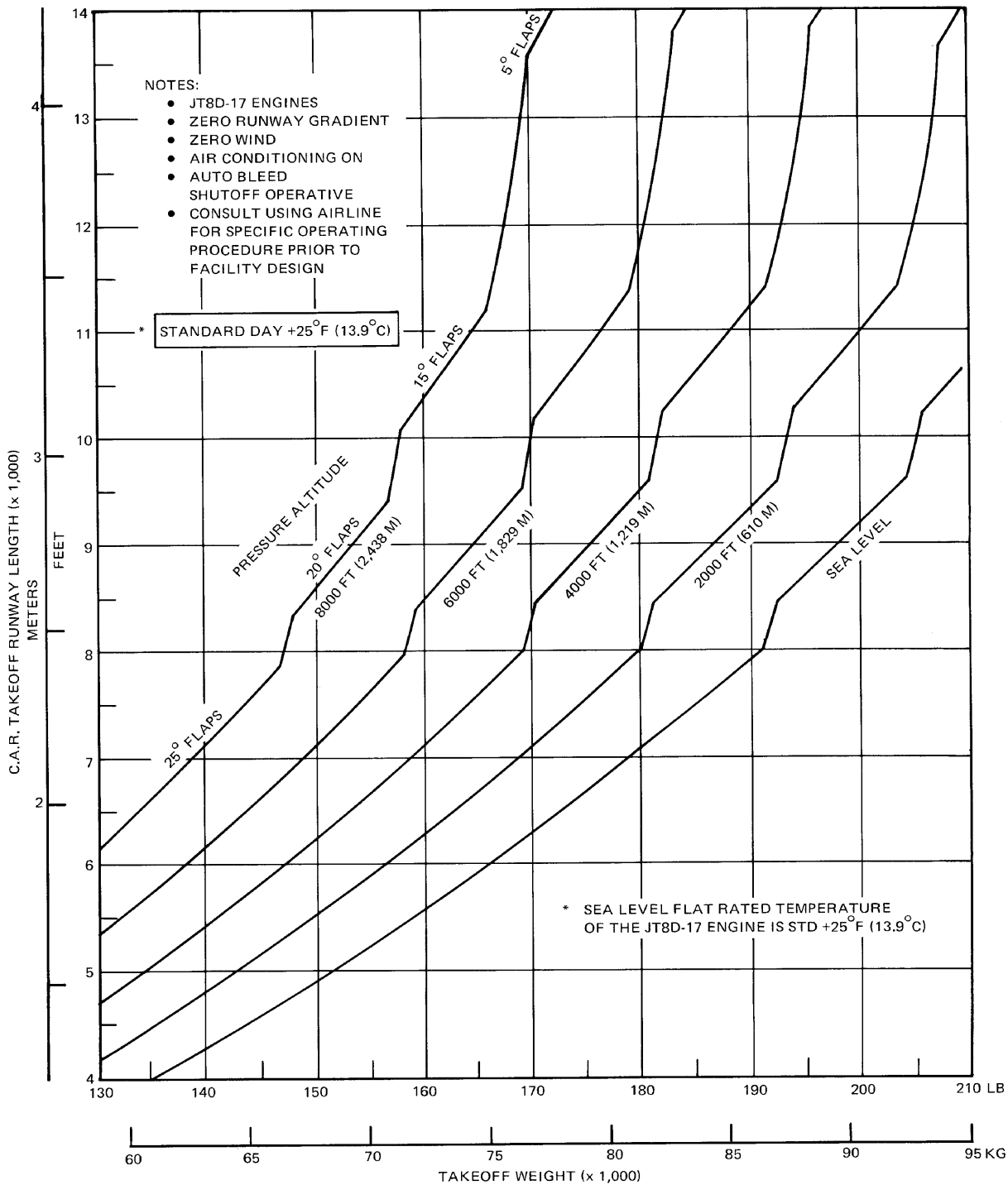
**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-15 ENGINES)—STANDARD DAY**  
*MODEL ADVANCED 727-200*



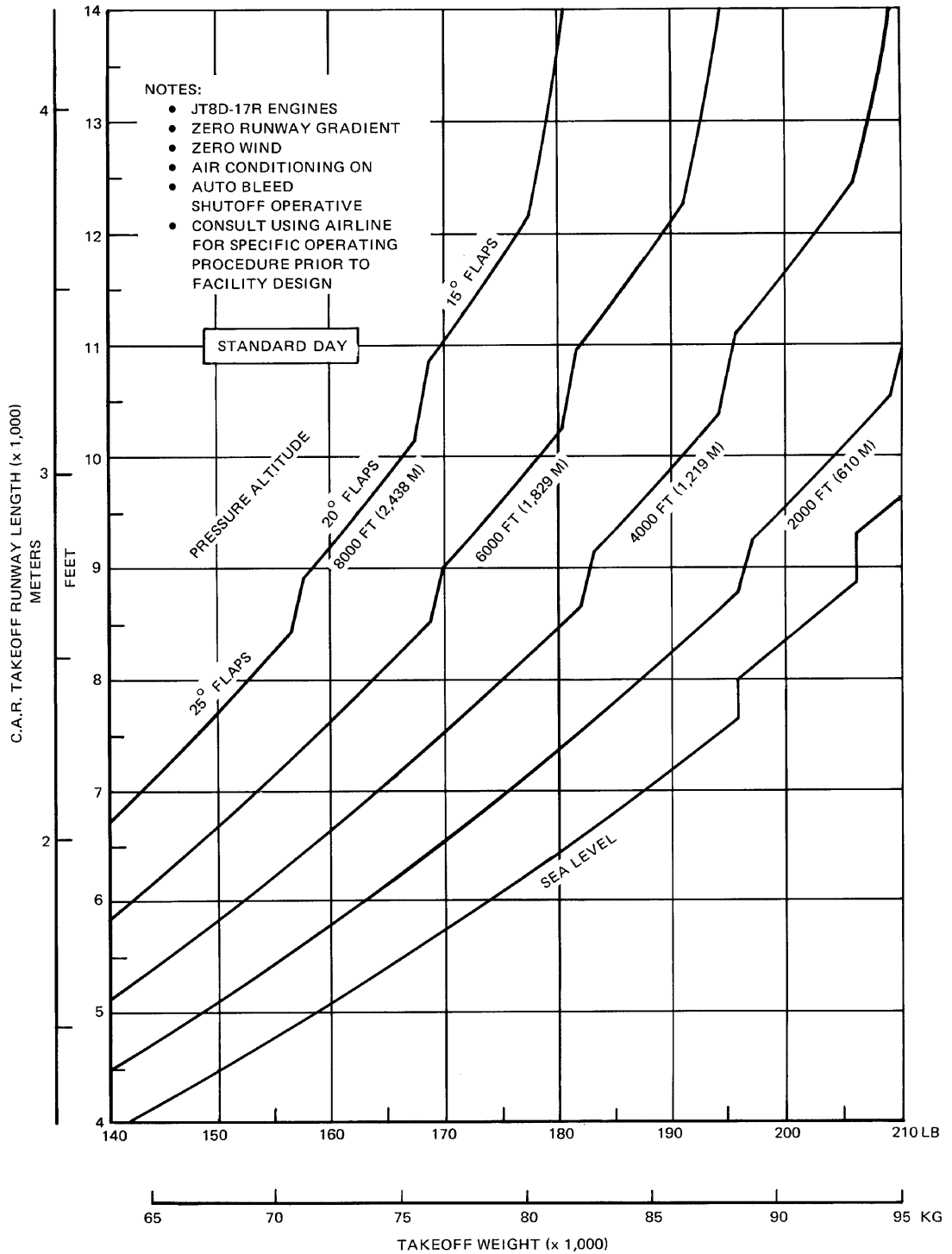
**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-15 ENGINES)—**  
**STANDARD DAY + 25°F (13.9°C)**  
**MODEL ADVANCED 727-200**



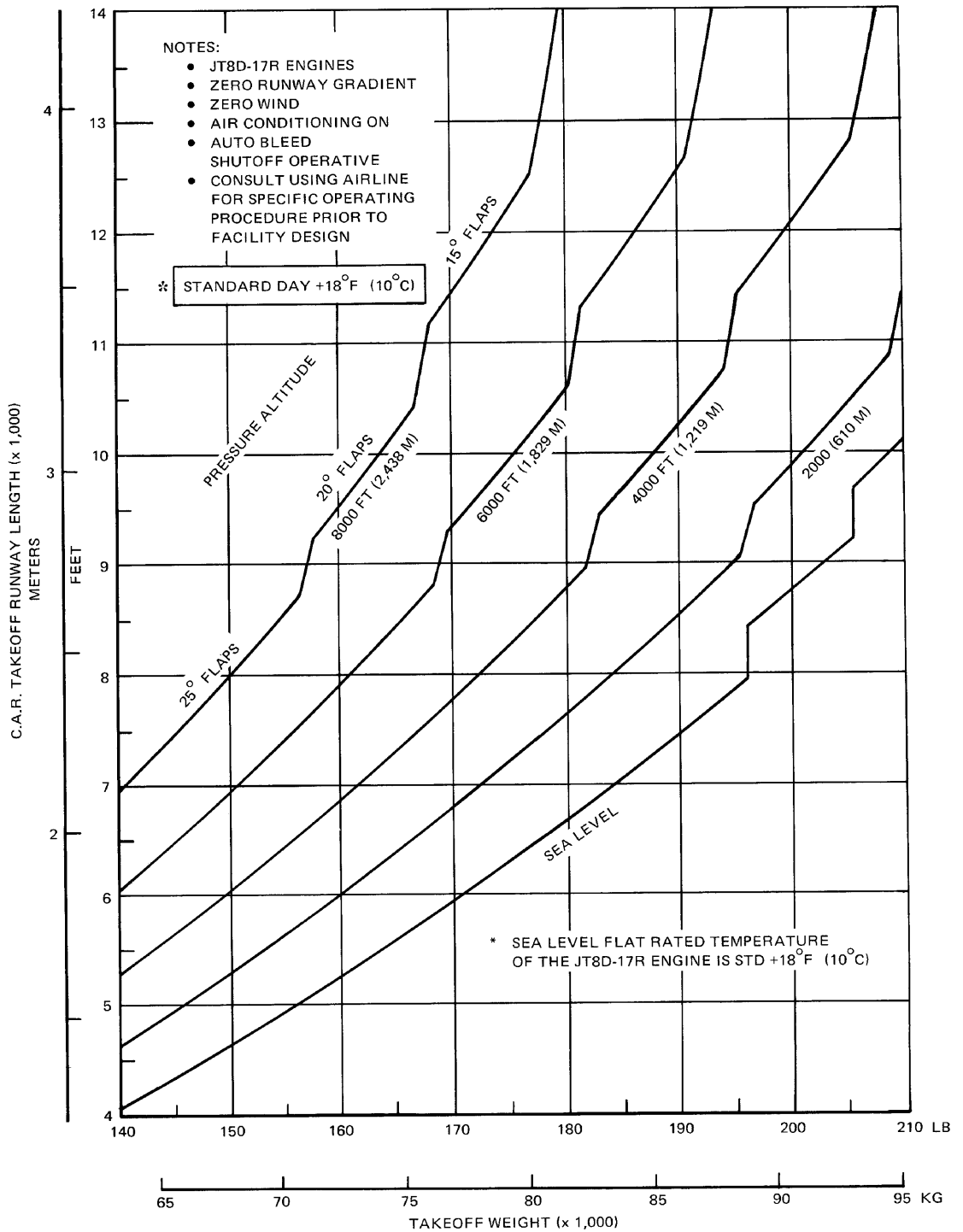
**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-17 ENGINES)—STANDARD DAY**  
 MODEL ADVANCED 727-200



**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-17 ENGINES)—**  
**STANDARD DAY + 25°F (13.9°C)**  
*MODEL ADVANCED 727-200*



**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-17R ENGINES)—STANDARD DAY**  
**MODEL ADVANCED 727-200**

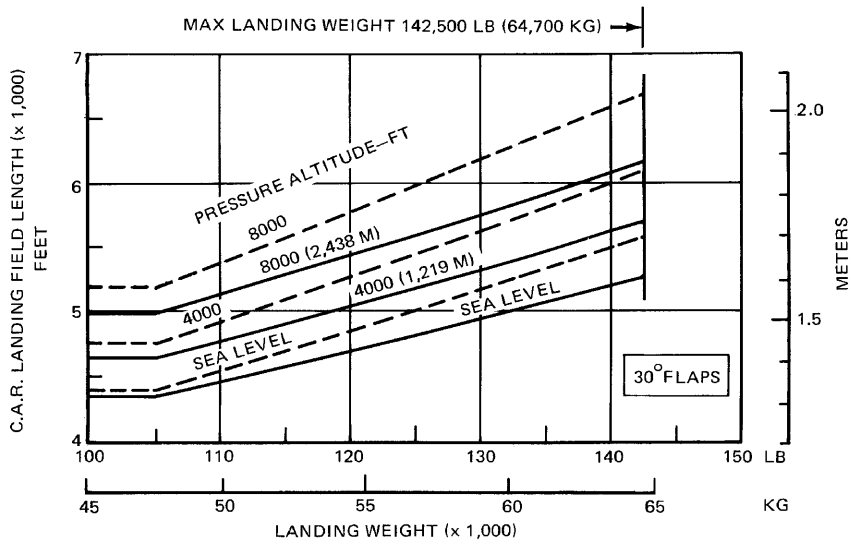
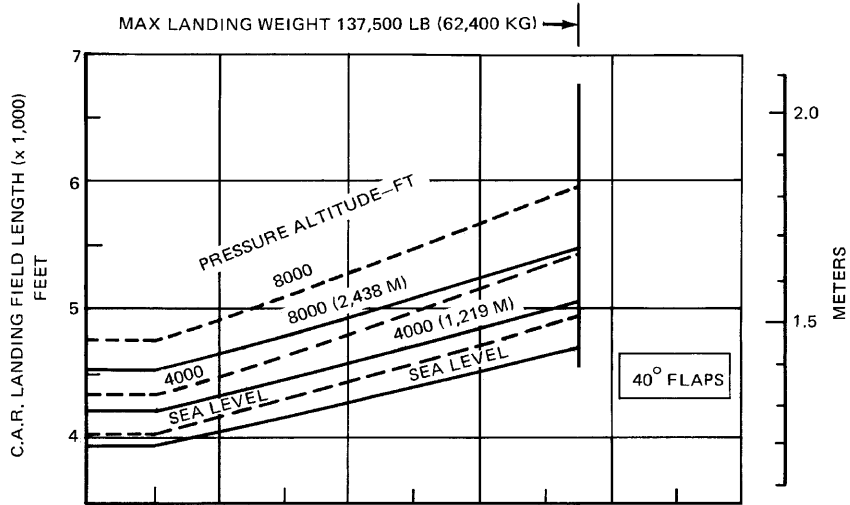


**C.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS—(JT8D-17R ENGINES)—**  
**STANDARD DAY + 18°F (10°C)**  
*MODEL ADVANCED 727-200*

NOTES:

- NOSE BRAKES ON
- MK II ANTI-SKID
- MANUAL SPOILERS
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
- ZERO WIND
- ZERO SLOPE

— DRY RUNWAY  
 - - - WET RUNWAY

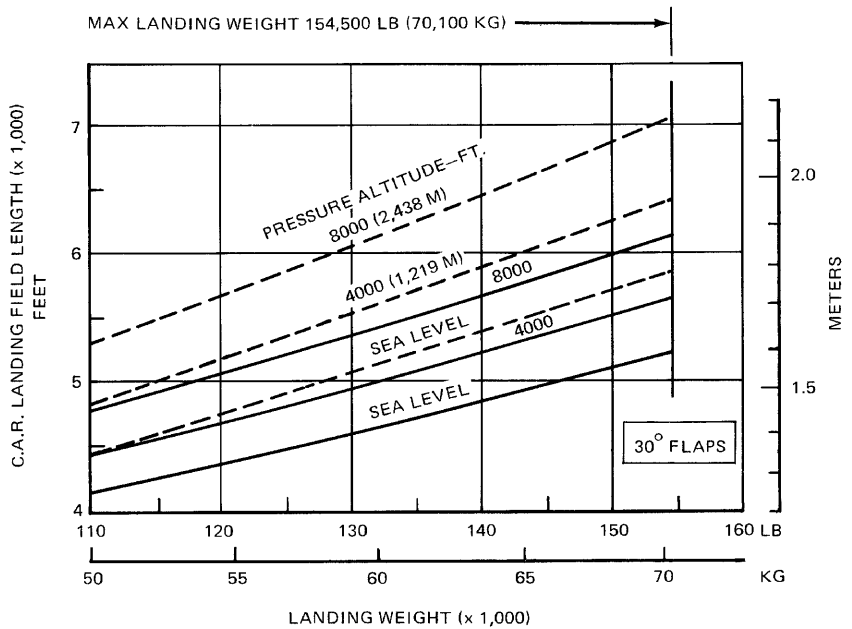
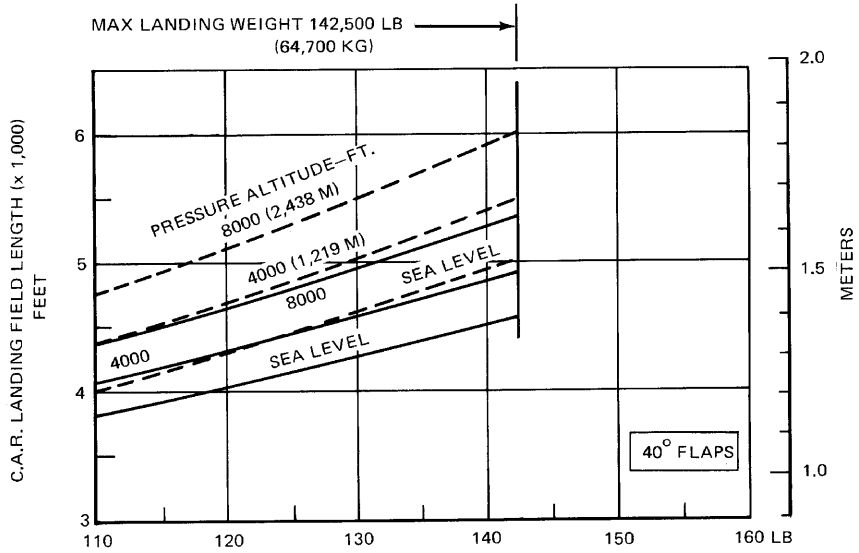


**3.3 C.A.R. LANDING RUNWAY REQUIREMENTS—30° AND 40° FLAPS  
 MODEL 727-100, -100C**

NOTES:

- MK II ANTI-SKID
- MANUAL SPOILERS
- NOSE BRAKES ON
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
- ZERO WIND
- ZERO SLOPE

———— DRY RUNWAY  
 - - - - WET RUNWAY



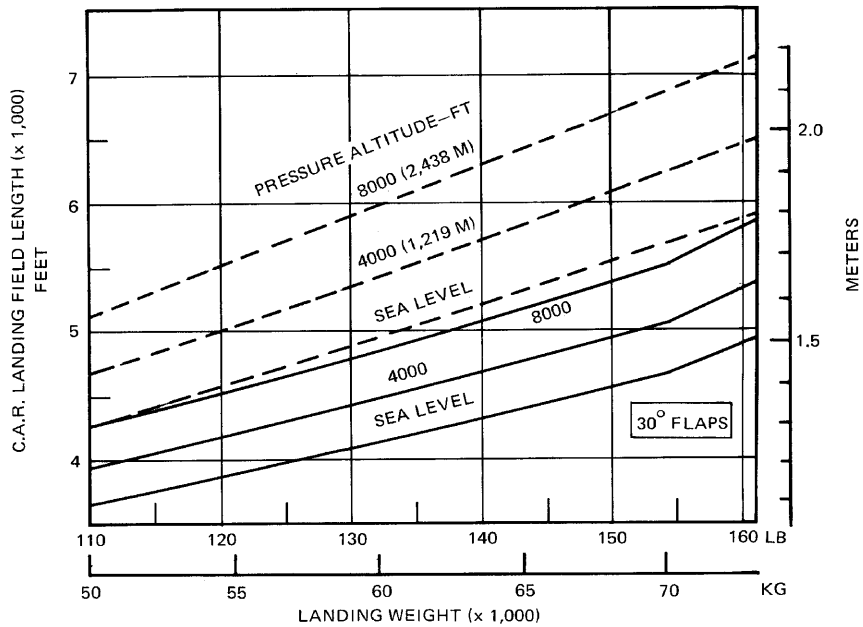
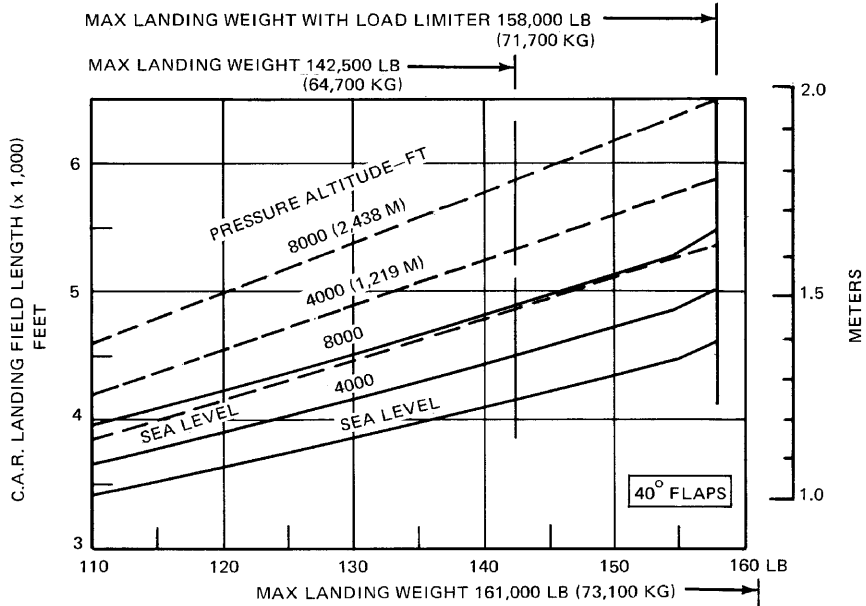
**C.A.R. LANDING RUNWAY REQUIREMENTS—30° AND 40° FLAPS**  
 MODEL 727-200 STANDARD



NOTES:

- NOSE BRAKES ON
- MK III ANTI-SKID
- MANUAL SPOILERS
- CONSULT USING AIRLINE FOR SPECIFIC OPERATING PROCEDURE PRIOR TO FACILITY DESIGN
- ZERO WIND
- ZERO SLOPE

— DRY RUNWAY  
 - - - WET RUNWAY



C.A.R. LANDING RUNWAY REQUIREMENTS—30° AND 40° FLAPS  
 MODEL ADVANCED 727-200

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