3.0 AIRPLANE PERFORMANCE

3.1 General Information

3.2 Payload/Range for 0.84 Mach Cruise

3.3 F.A.R. Takeoff Runway Length Requirements

3.4 F.A.R. Landing Runway Length Requirements

3.0 AIRPLANE PERFORMANCE

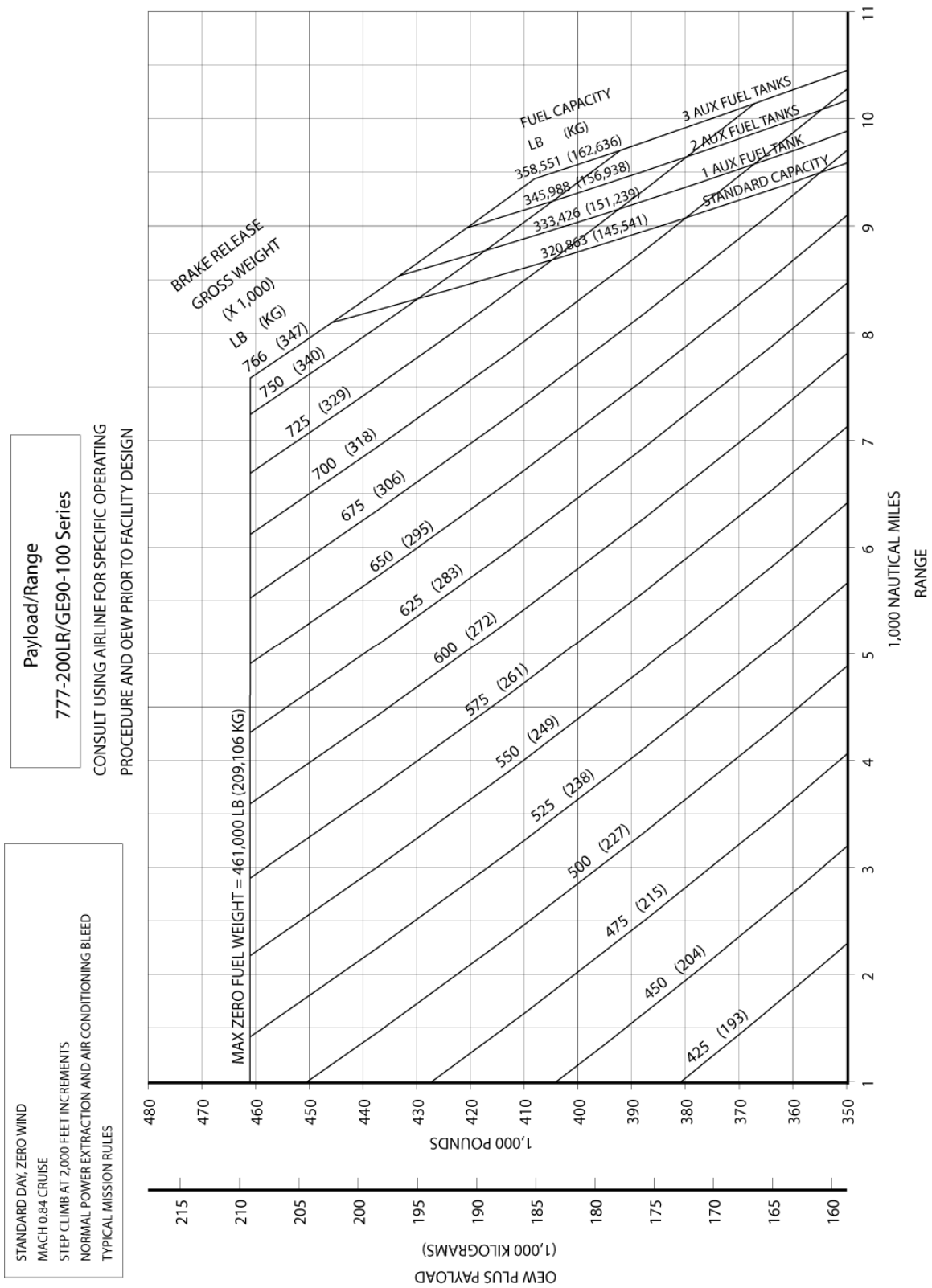
3.1 General Information

The graphs in Section 3.2 provide information on operational empty weight (OEW) and payload, trip range, brake release gross weight, and fuel limits for airplane models with the different engine options. To use these graphs, if the trip range and zero fuel weight (OEW + payload) are known, the approximate brake release weight can be found.

The graphs in Section 3.3 provide information on F.A.R. takeoff runway length requirements with the different engines at different pressure altitudes. Maximum takeoff weights shown on the graphs are the heaviest for the particular airplane models with the corresponding engines. Standard day temperatures for pressure altitudes shown on the F.A.R. takeoff graphs are given below:

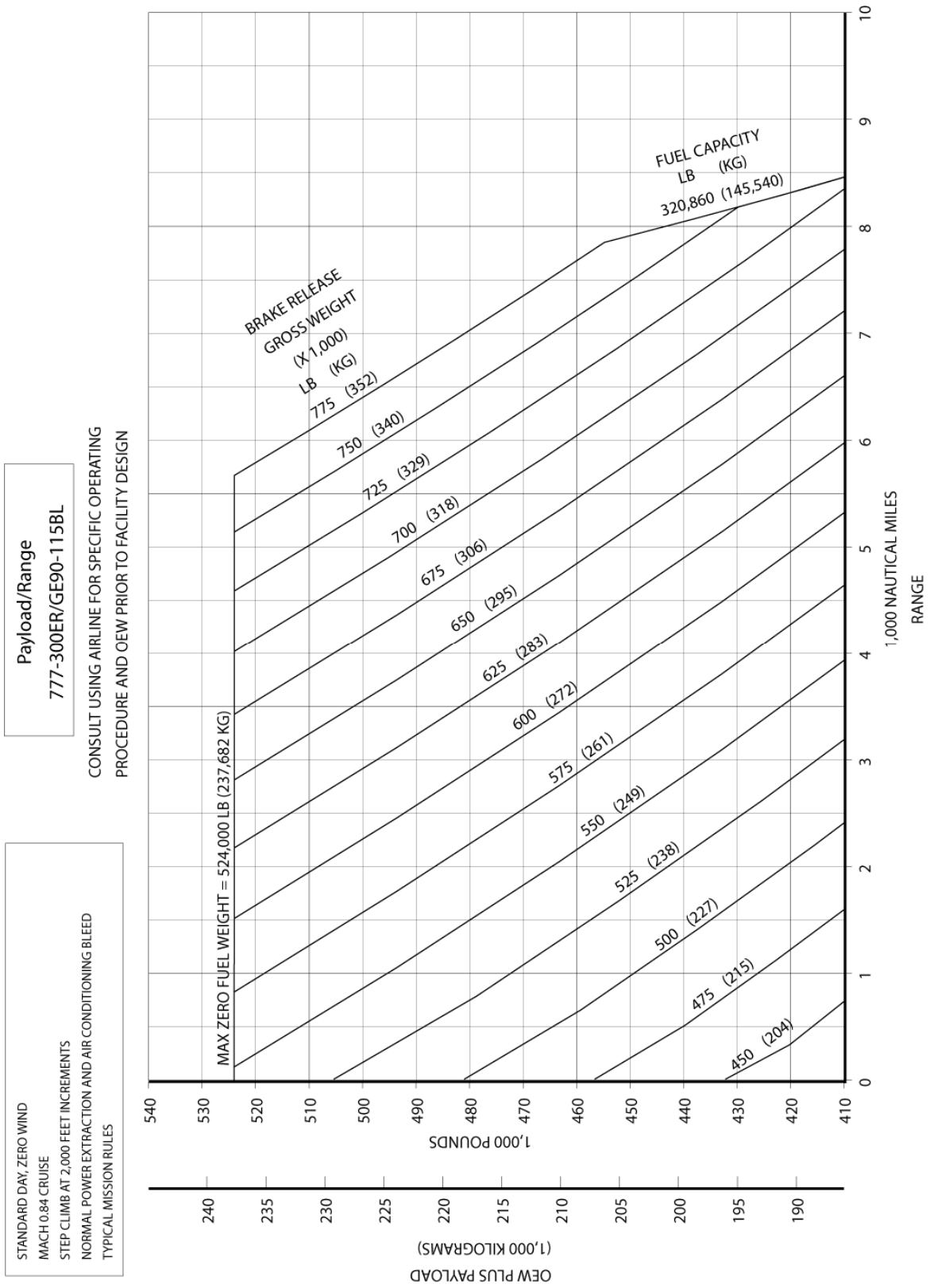
PRESSURE ALTITUDE		STANDARD DAY TEMP	
FEET	METERS	^{0}F	^{0}C
0	0	59.0	15.00
2,000	610	51.9	11.04
4,000	1,219	44.7	7.06
6,000	1,829	37.6	3.11
8,000	2,438	30.5	-0.85
8,800	2,682	31.2	-1.00
10,000	3,048	23.3	-4.81

The graphs in Section 3.4 provide information on landing runway length requirements for different airplane weights and airport altitudes. The maximum landing weights shown are the heaviest for the particular airplane model.



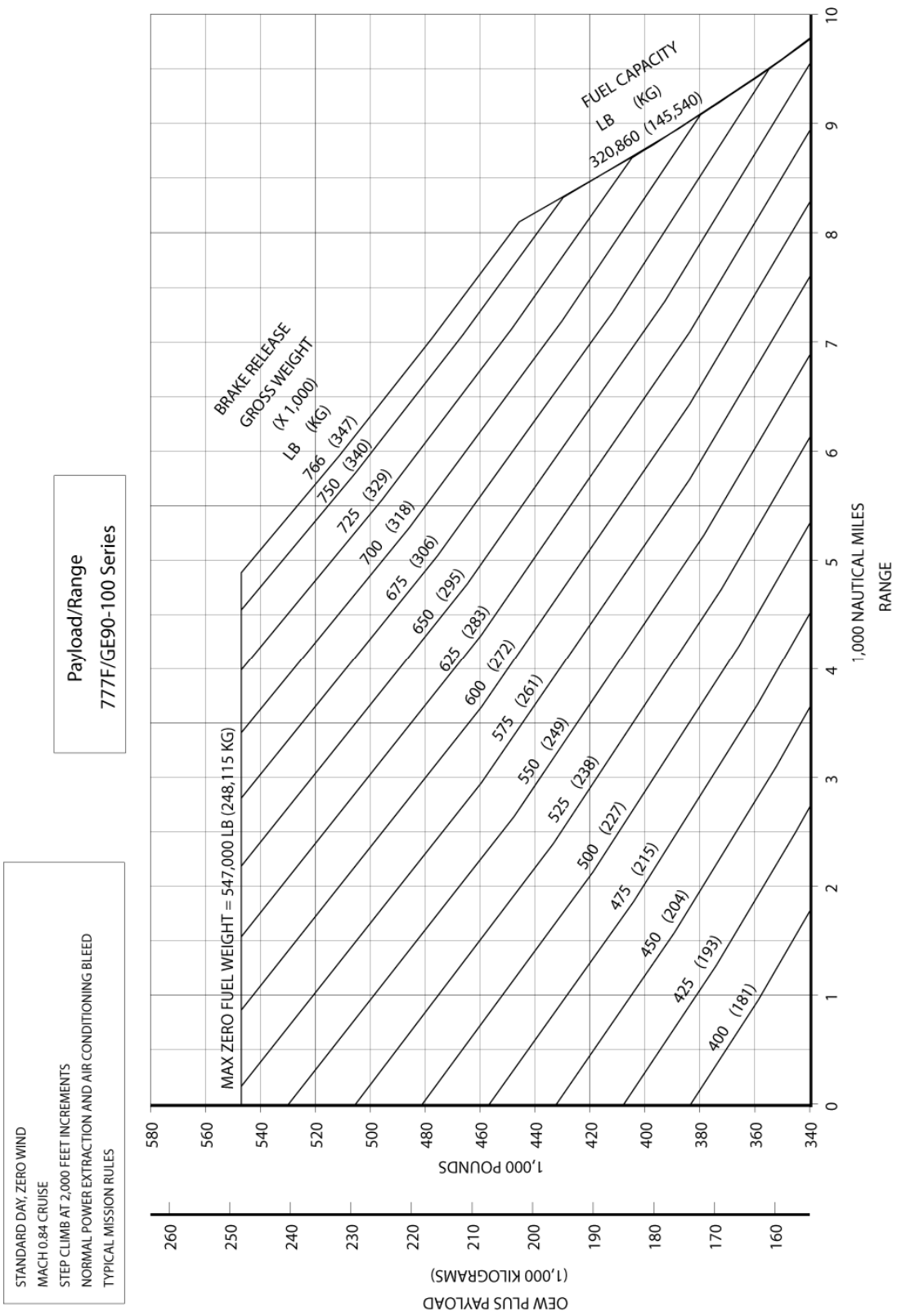
3.2.1 PAYLOAD/RANGE FOR 0.84 MACH CRUISE

MODEL 777-200LR (GE90-100 SERIES ENGINES)



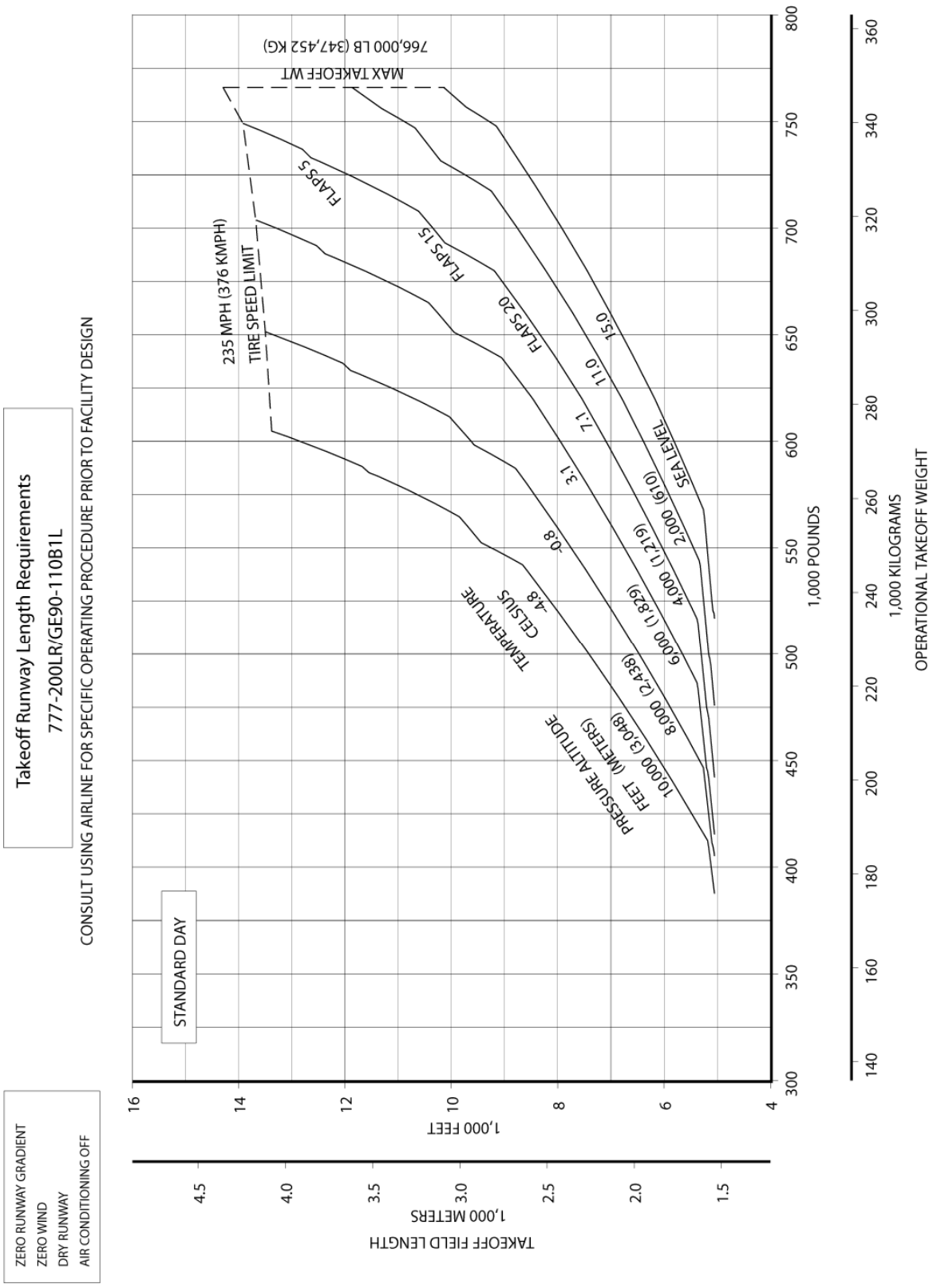
3.2.2 PAYLOAD/RANGE FOR 0.84 MACH CRUISE

MODEL 777-300ER (GE90-115BL ENGINES)



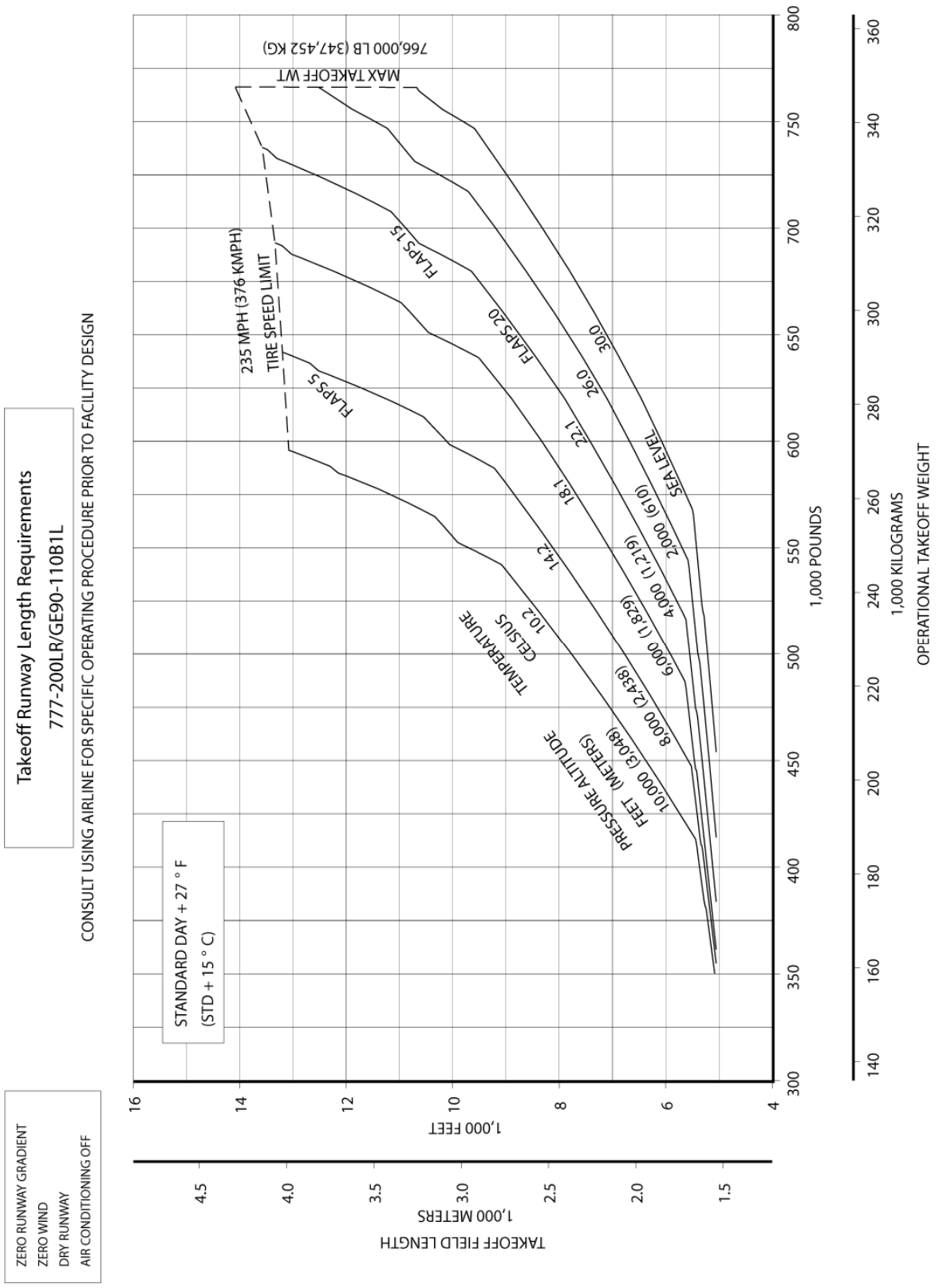
3.2.3 PAYLOAD/RANGE FOR 0.84 MACH CRUISE

MODEL 777F (GE90-100 SERIES ENGINES)



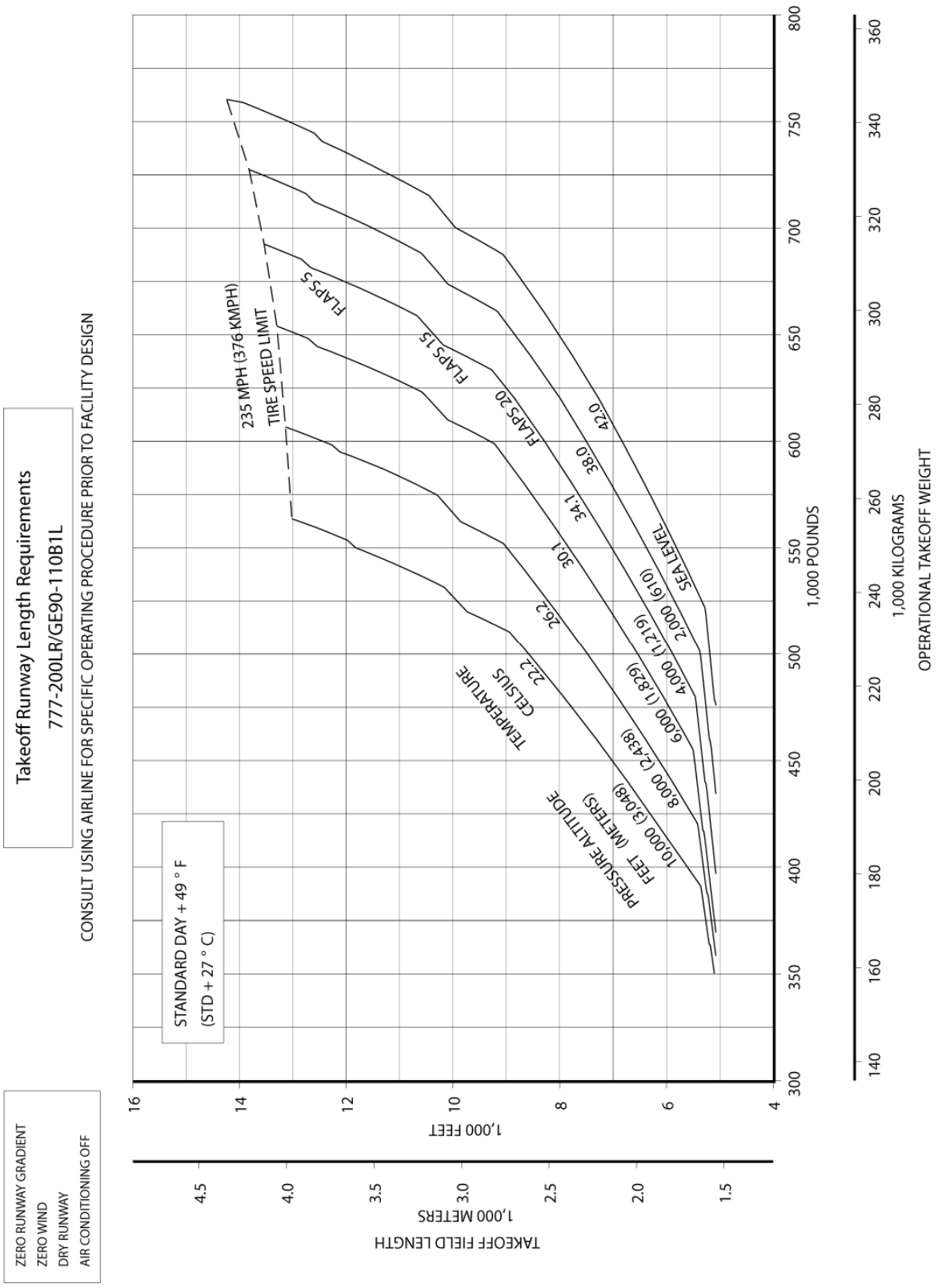
3.3.1 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 777-200LR (GE90-110B1L ENGINES)



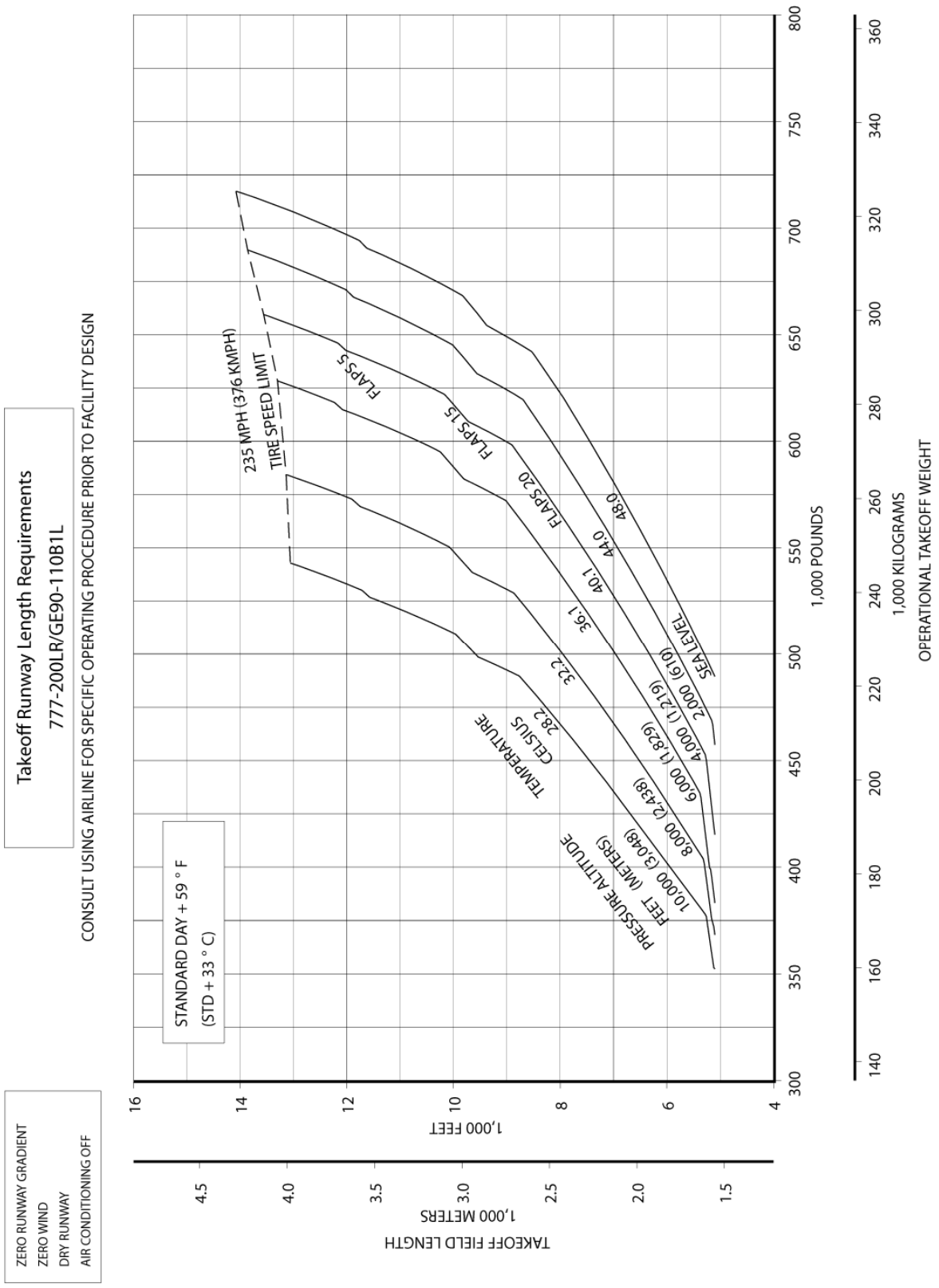
3.3.2 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +27^{O}F (STD + 15^{O}C)

MODEL 777-200LR (GE90-110B1L ENGINES)



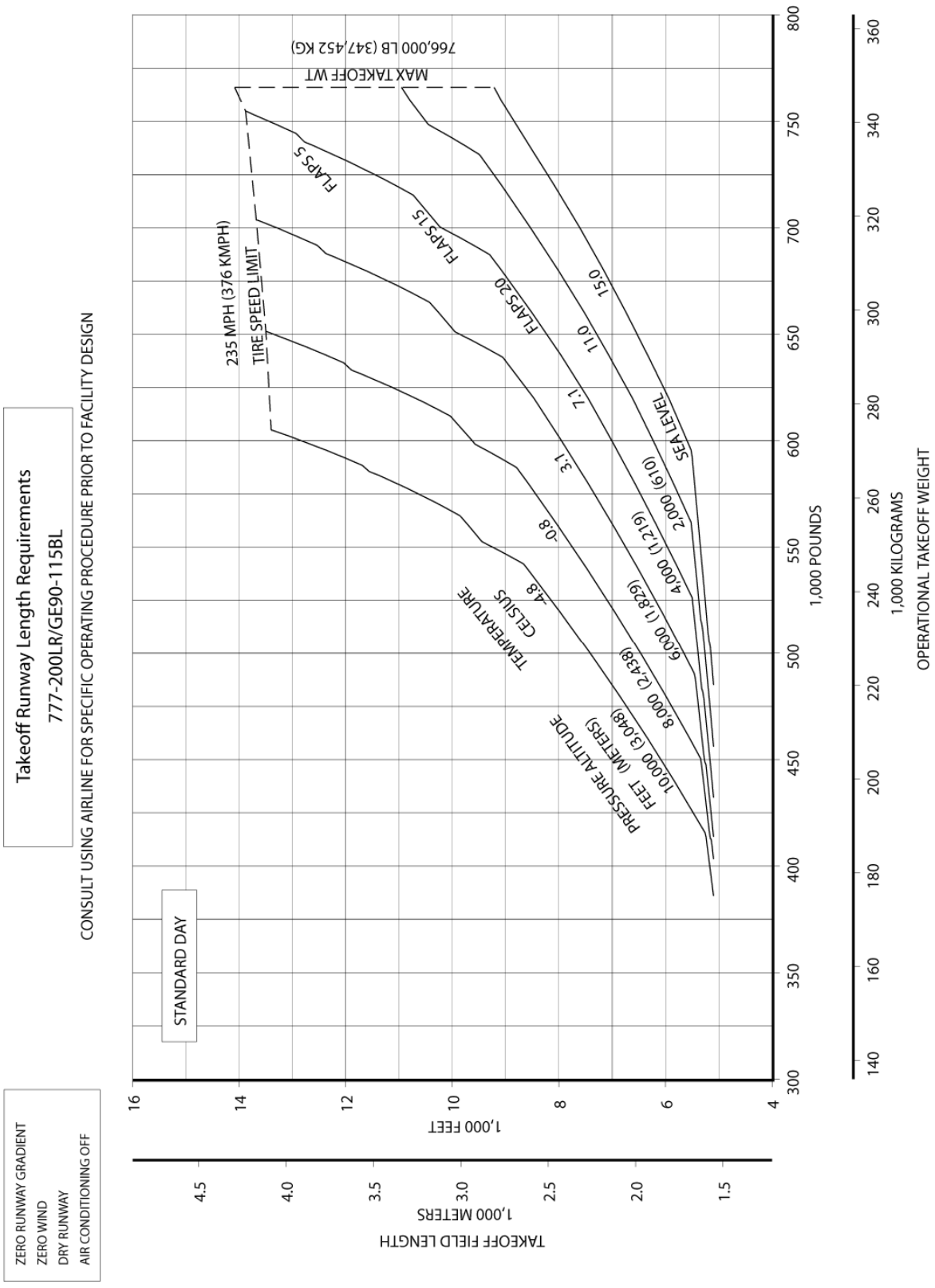
3.3.3 TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +49^{O}F (STD + 27^{O}C)

MODEL 777-200LR (GE90-110B1L ENGINES)



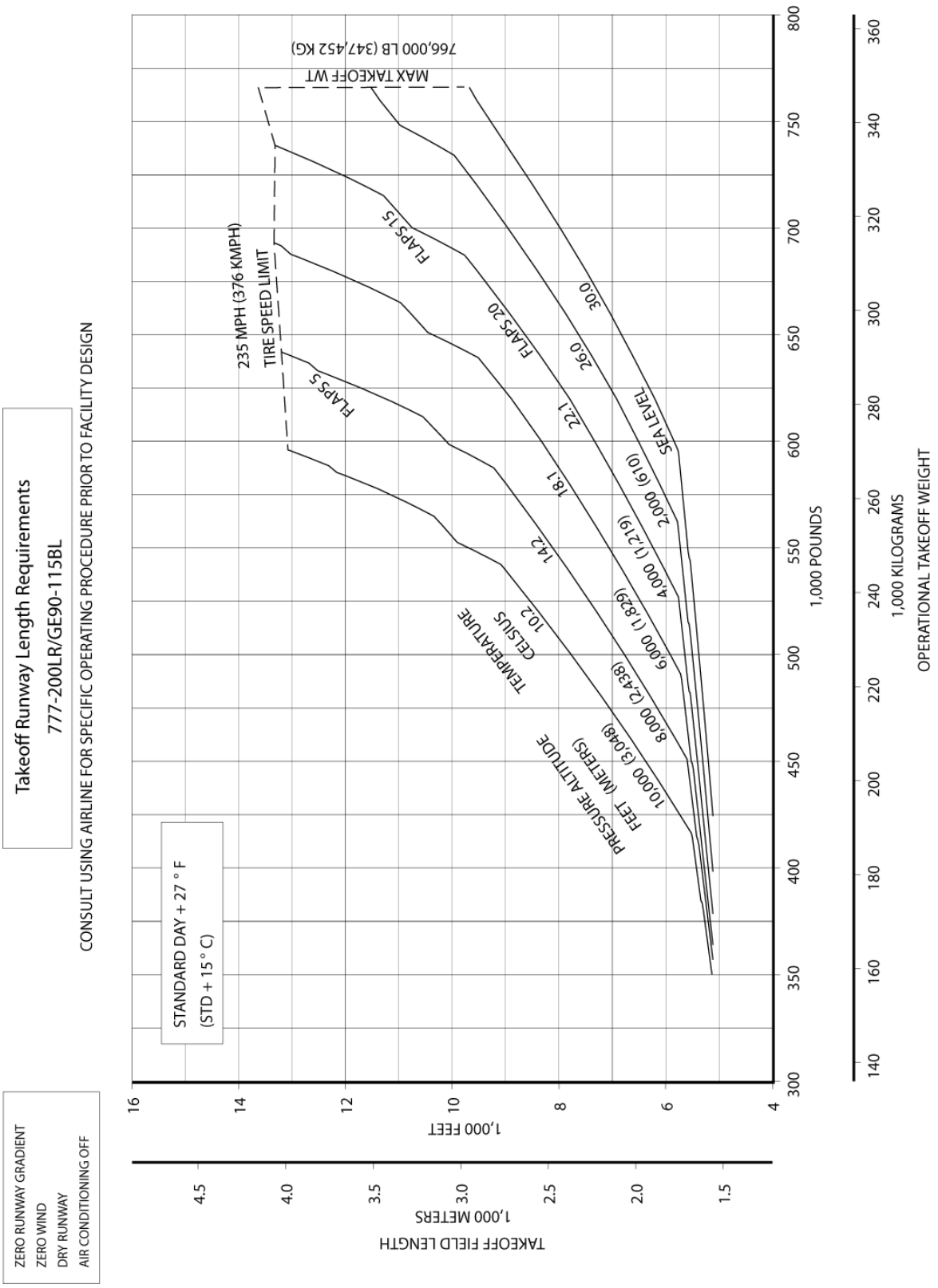
3.3.4 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +59^{O}F (STD + 33^{O}C)

MODEL 777-200LR (GE90-110B1L ENGINES)



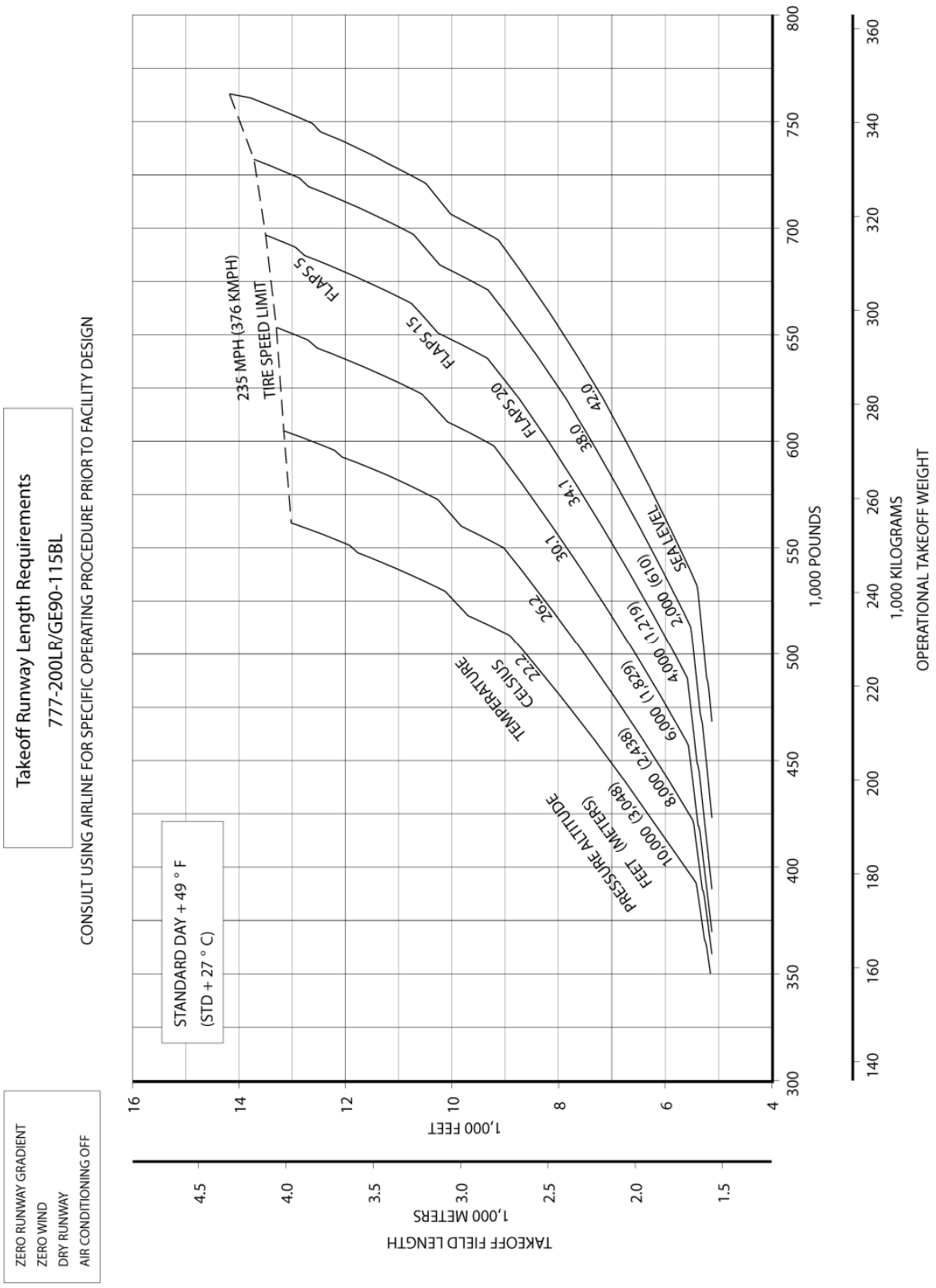
3.3.5 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 777-200LR (GE90-115BL ENGINES)



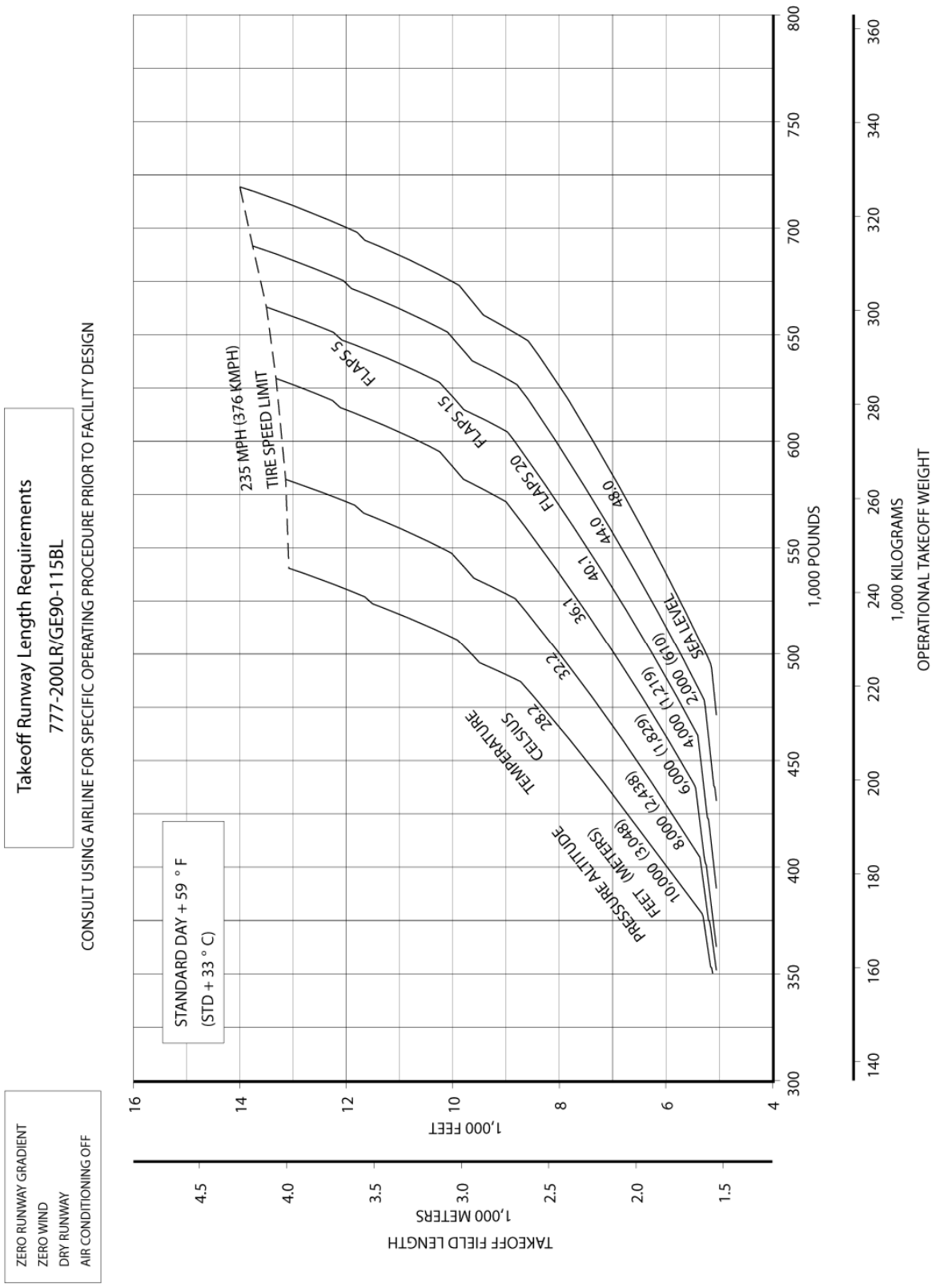
3.3.6 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +27^{O}F (STD + 15^{O}C)

MODEL 777-200LR (GE90-115BL ENGINES)



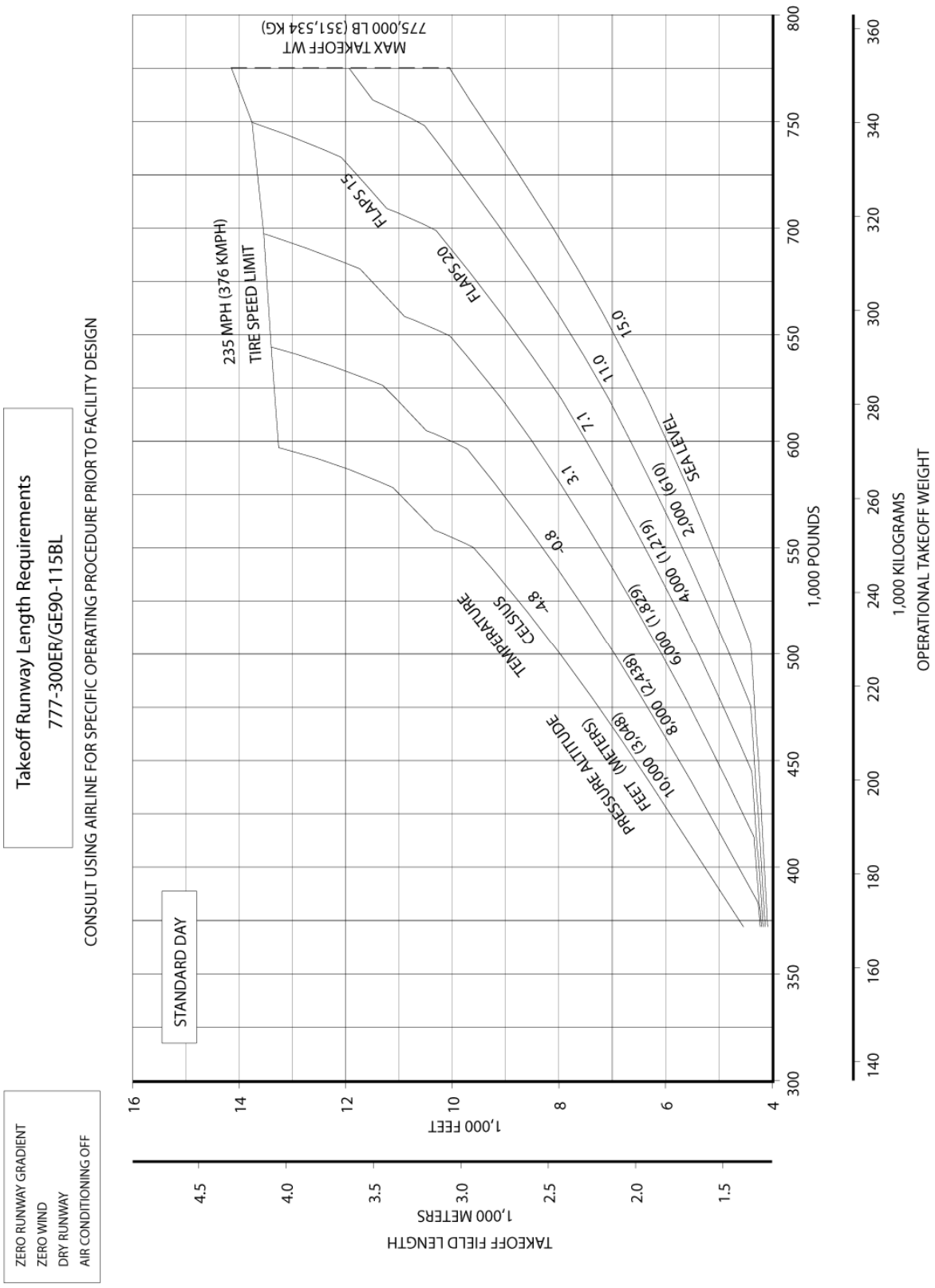
3.3.7 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY+49^{O}F (STD + 27^{O}C)

MODEL 777-200LR (GE90-115BL ENGINES)



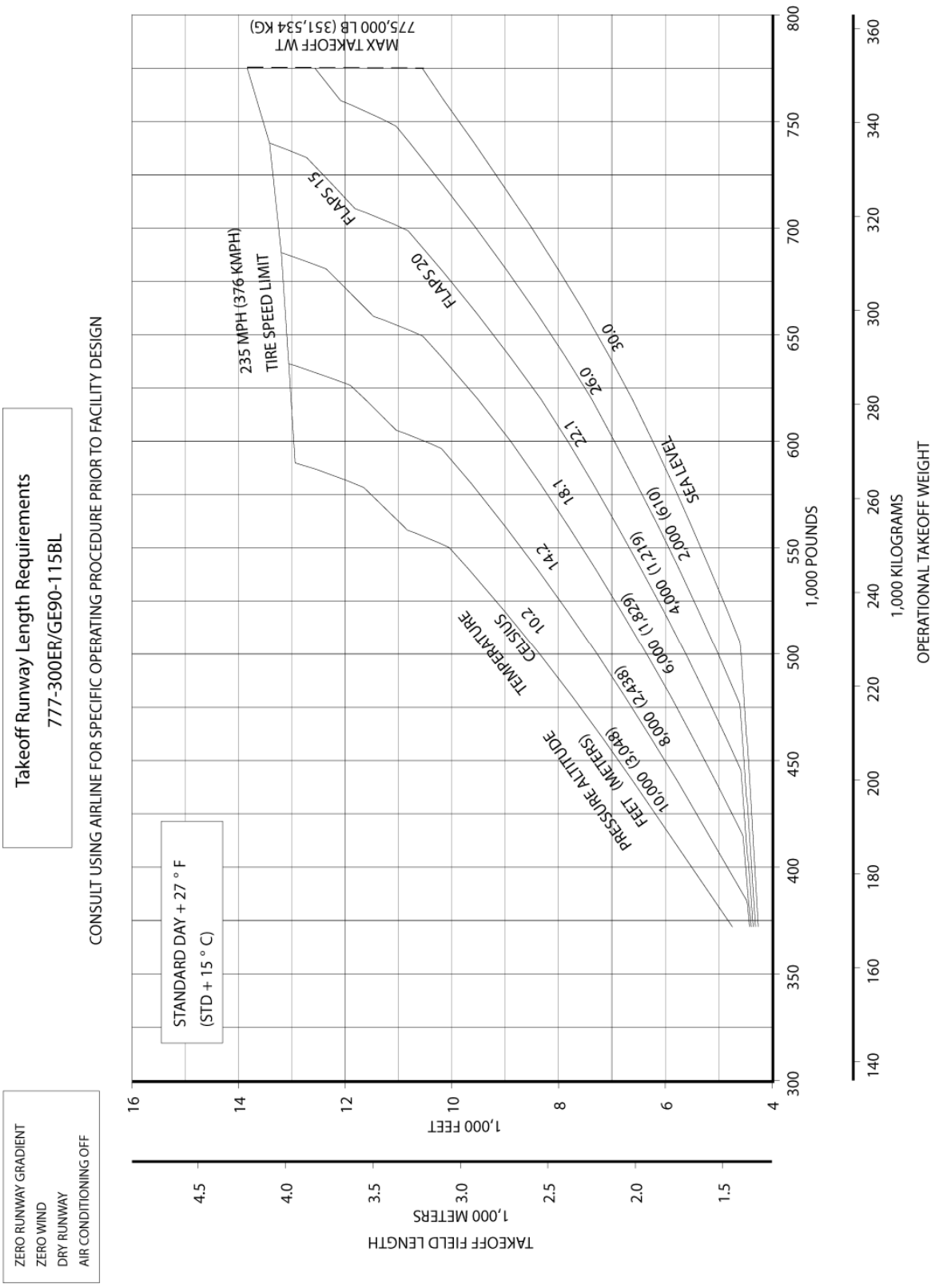
3.3.8 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +59^{O}F (STD + 33^{O}C)

MODEL 777-200LR (GE90-115BL ENGINES)



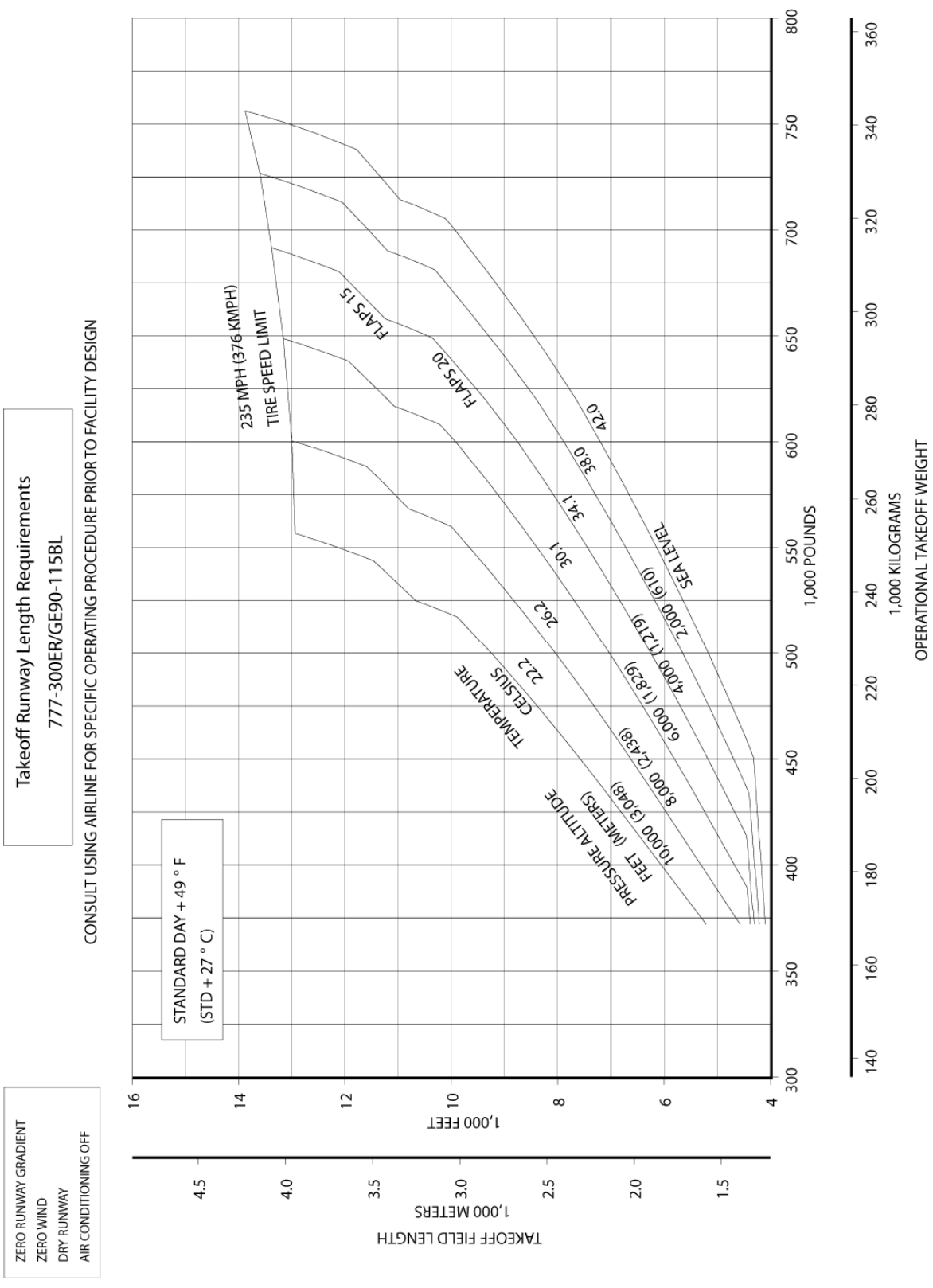
3.3.9 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 777-300ER (GE90-115BL ENGINES)



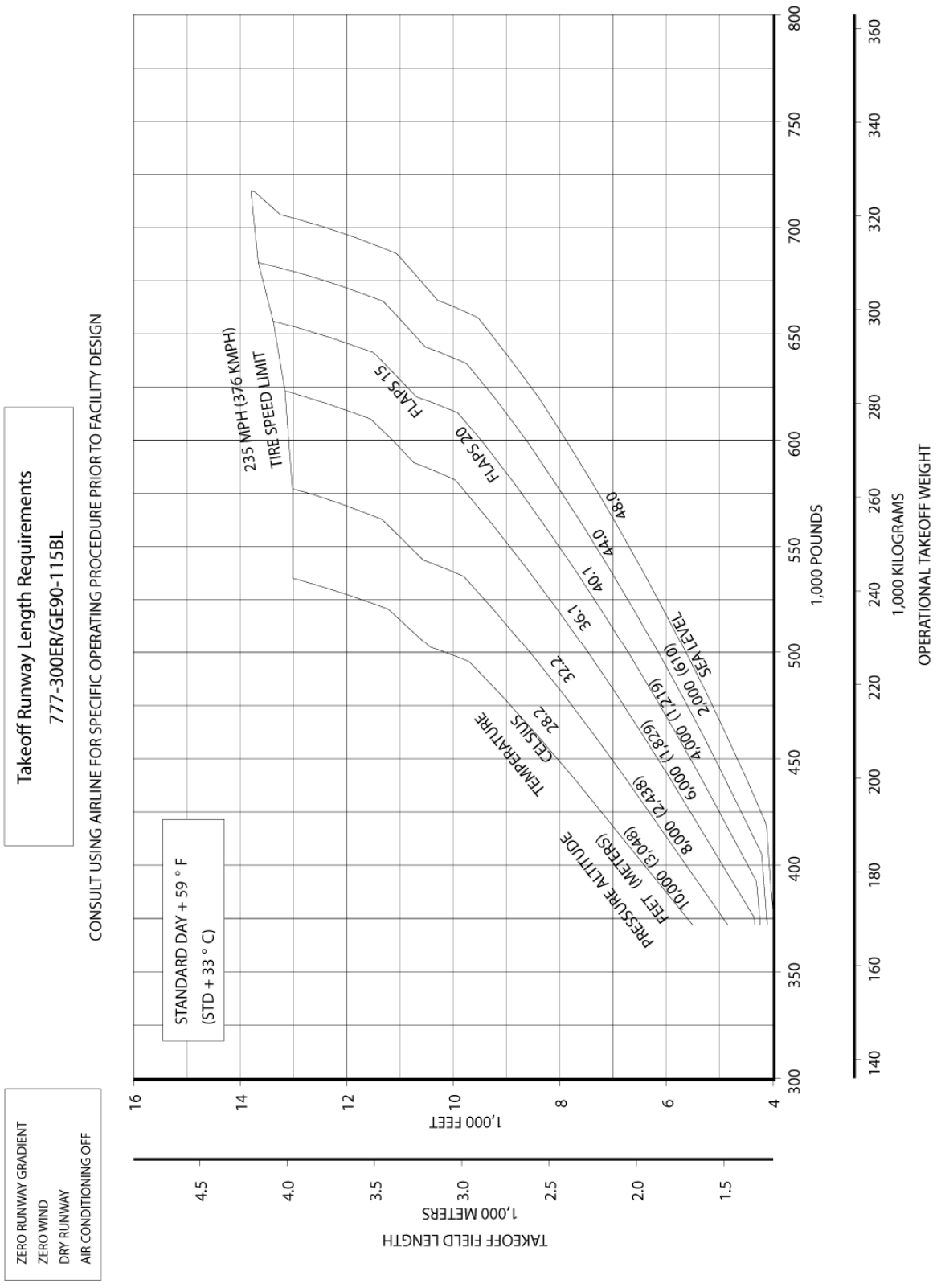
3.3.10 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +27^{O}F (STD + 15^{O}C)

MODEL 777-300ER (GE90-115BL ENGINES)



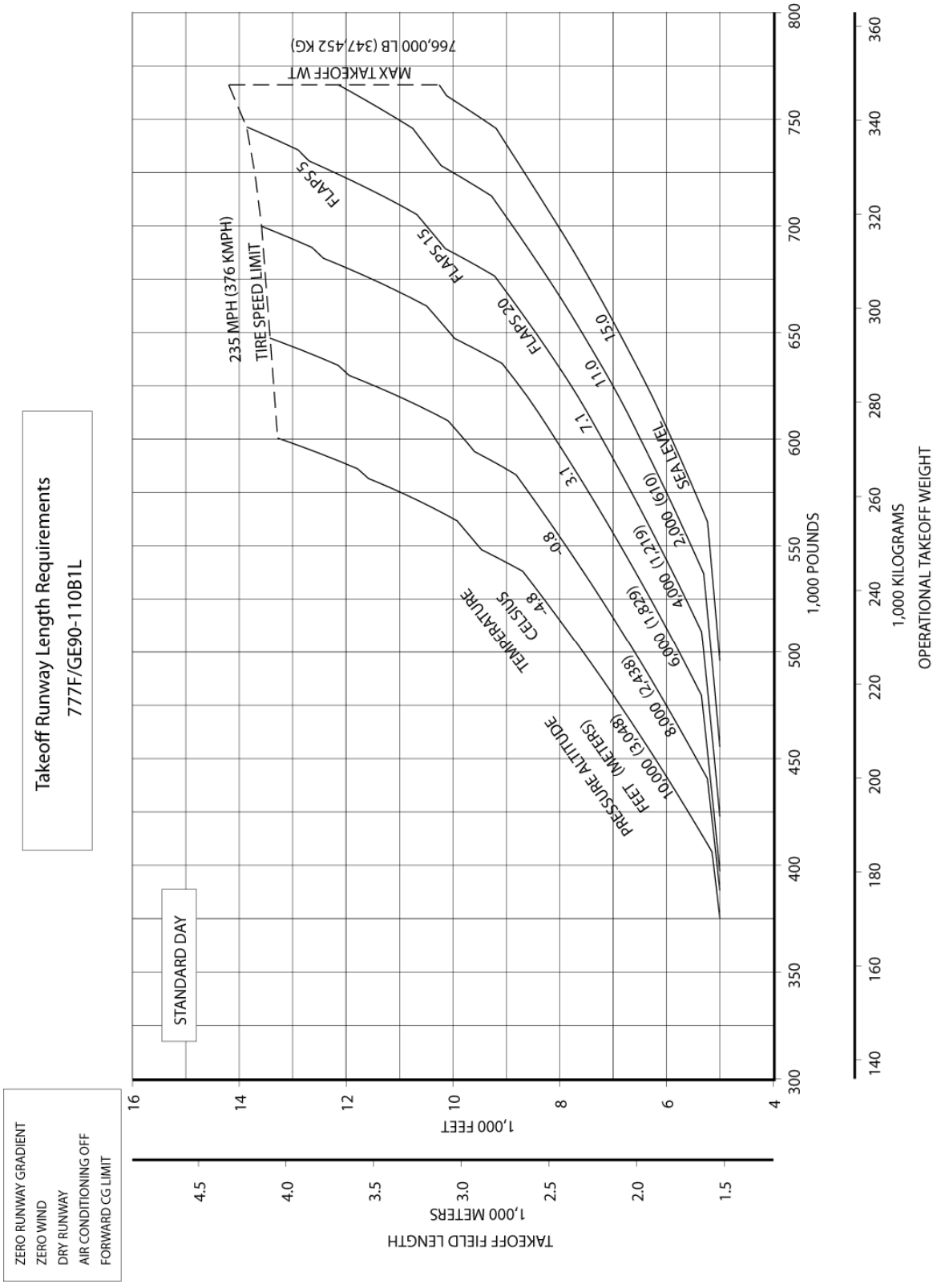
3.3.11 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +49^{O}F (STD + 27^{O}C)

MODEL 777-300ER (GE90-115BL ENGINES)



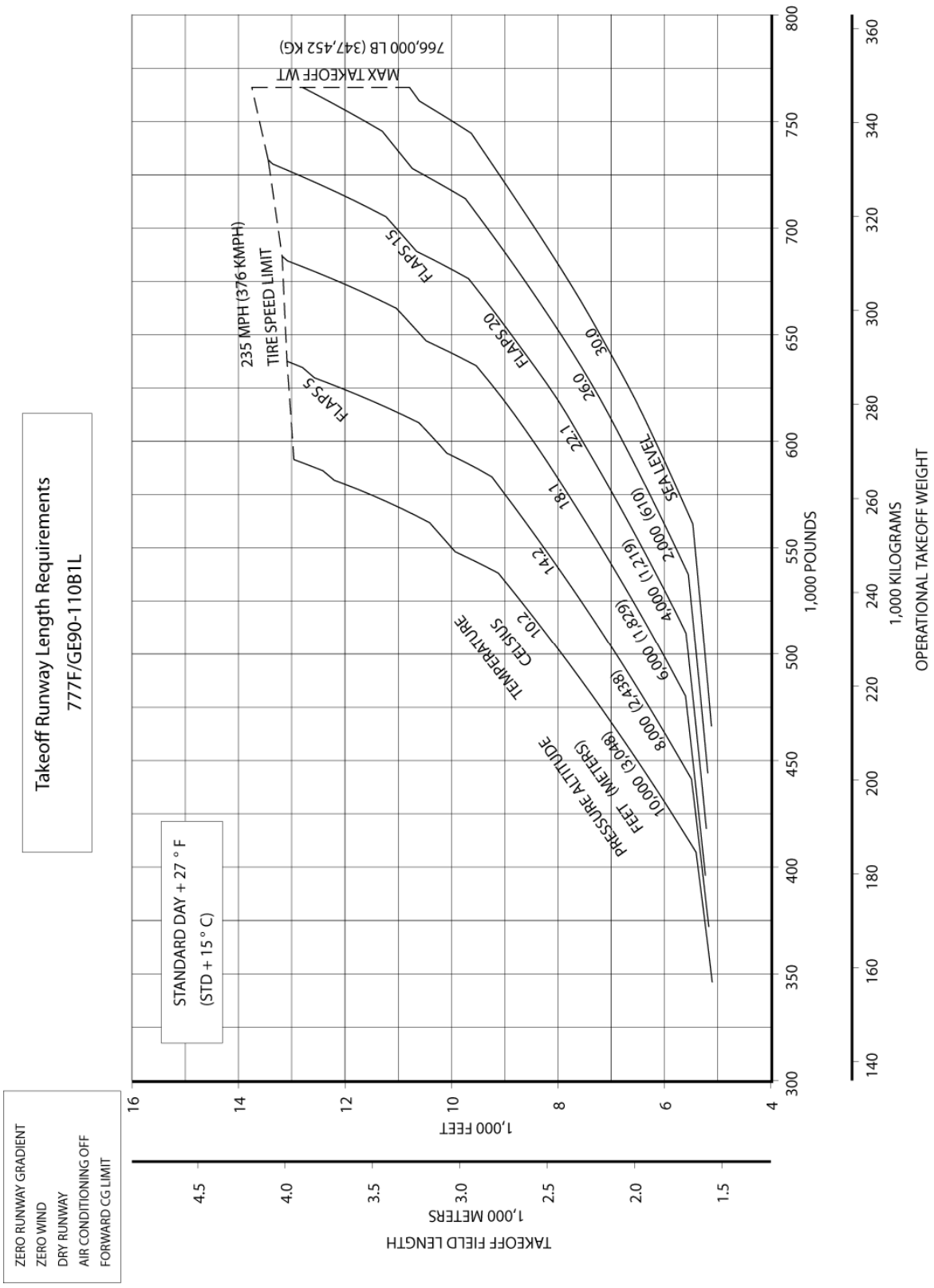
3.3.12 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +59^{O}F (STD + 33^{O}C)

MODEL 777-300ER (GE90-115BL ENGINES)



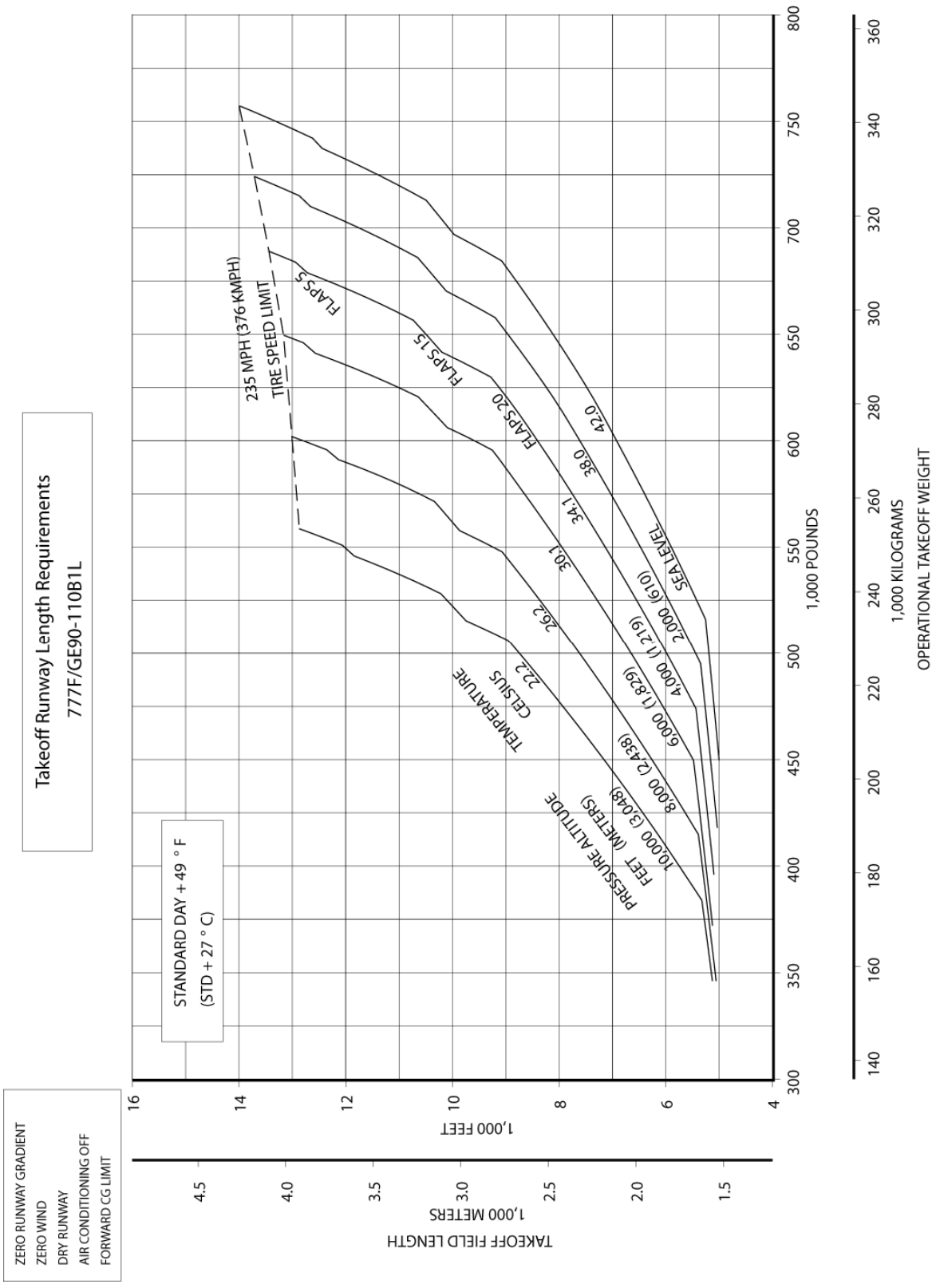
3.3.13 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY

MODEL 777F (GE90-110B1L ENGINES)



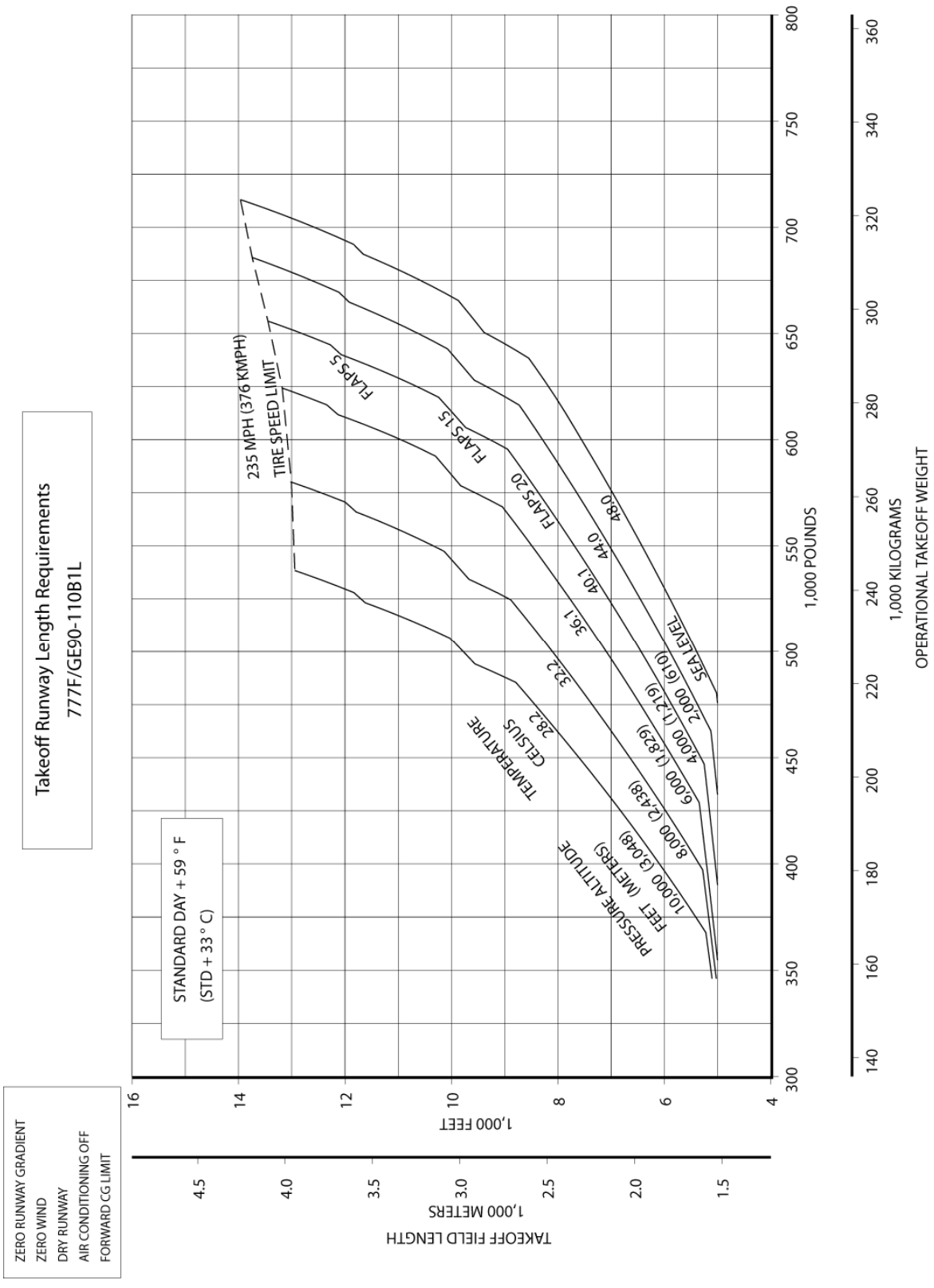
3.3.14 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY + 27°F (STD + 15^{O}C)

MODEL 777F (GE90-110B1L ENGINES)



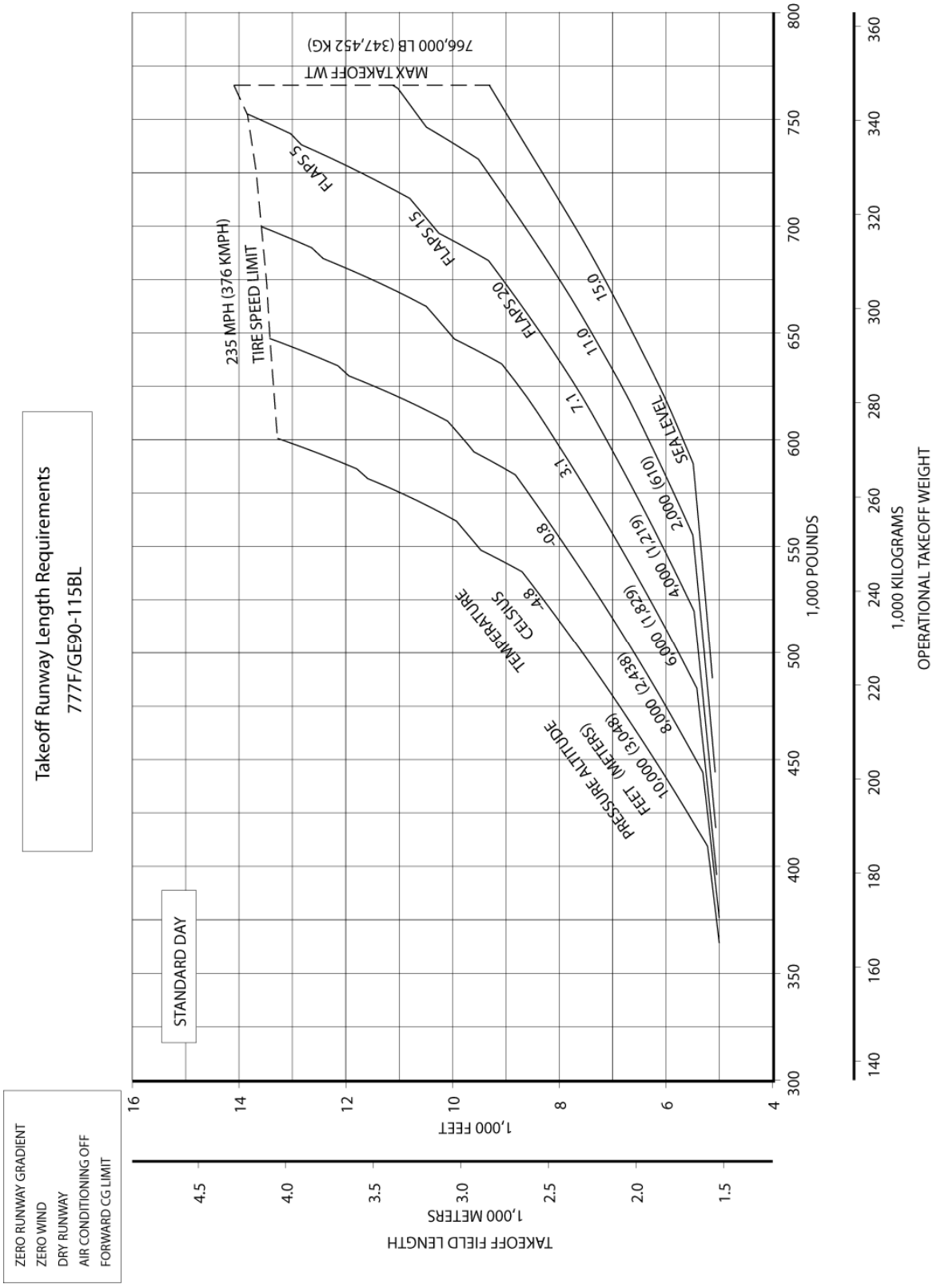
3.3.15 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +49^{O}F (STD + 27^{O}C)

MODEL 777F (GE90-110B1L ENGINES)



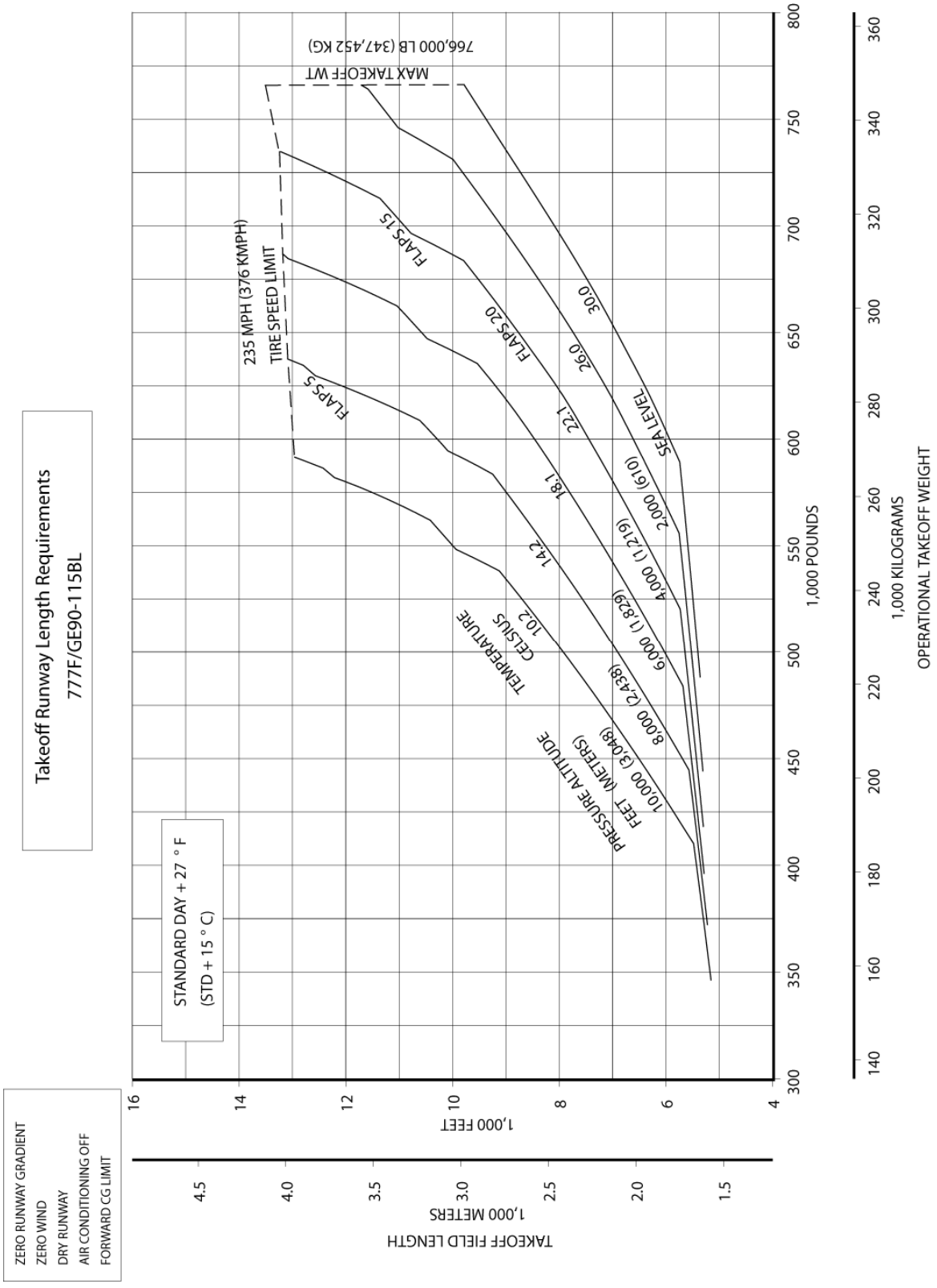
3.3.16 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY +59^{O}F (STD + 33^{O}C)

MODEL 777F (GE90-110B1L ENGINES)



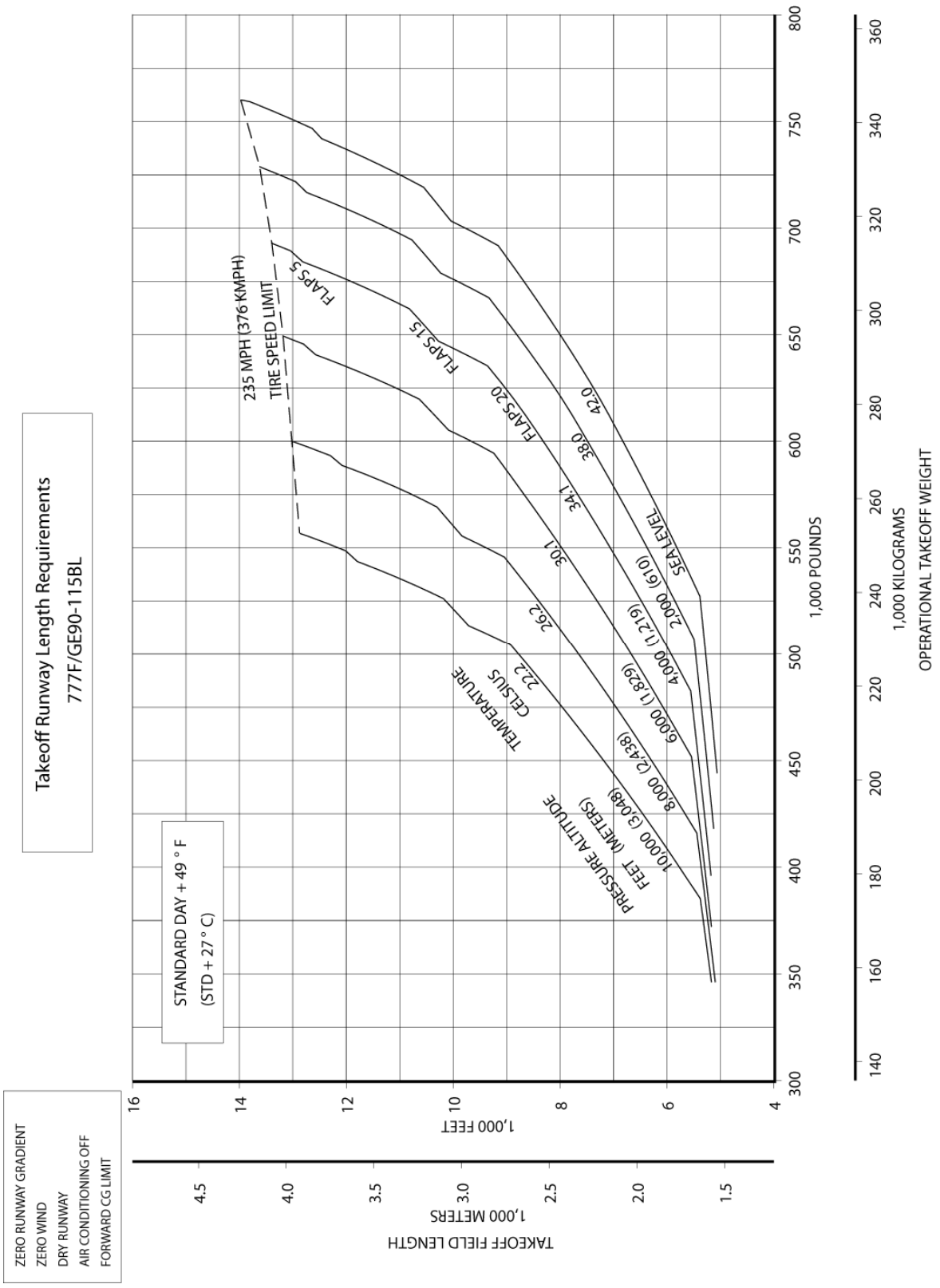
3.3.17 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY

MODEL 777F (GE90-115BL ENGINES)



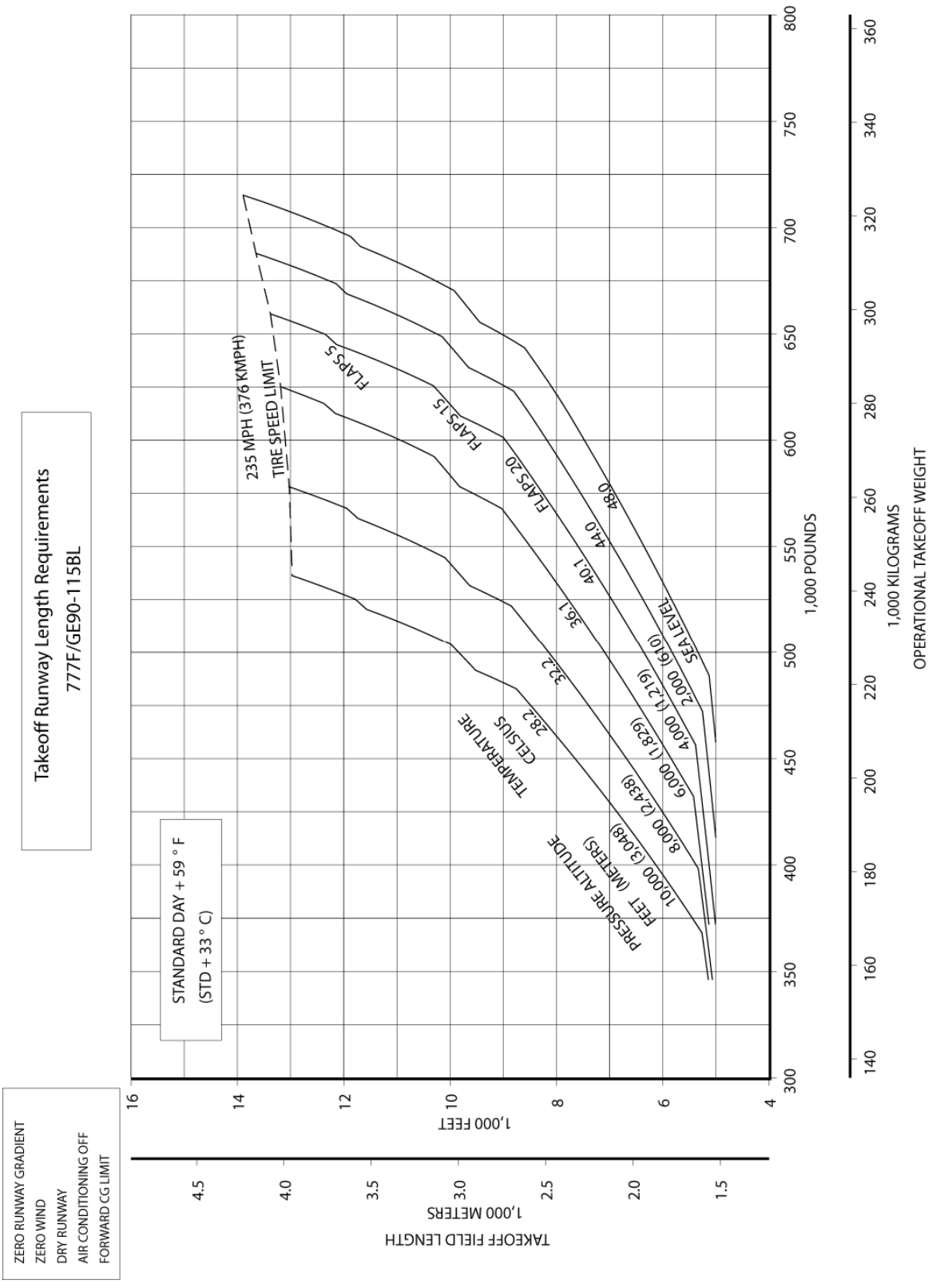
3.3.18 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY + 27°F (STD + 15° C)

MODEL 777F (GE90-115BL ENGINES)



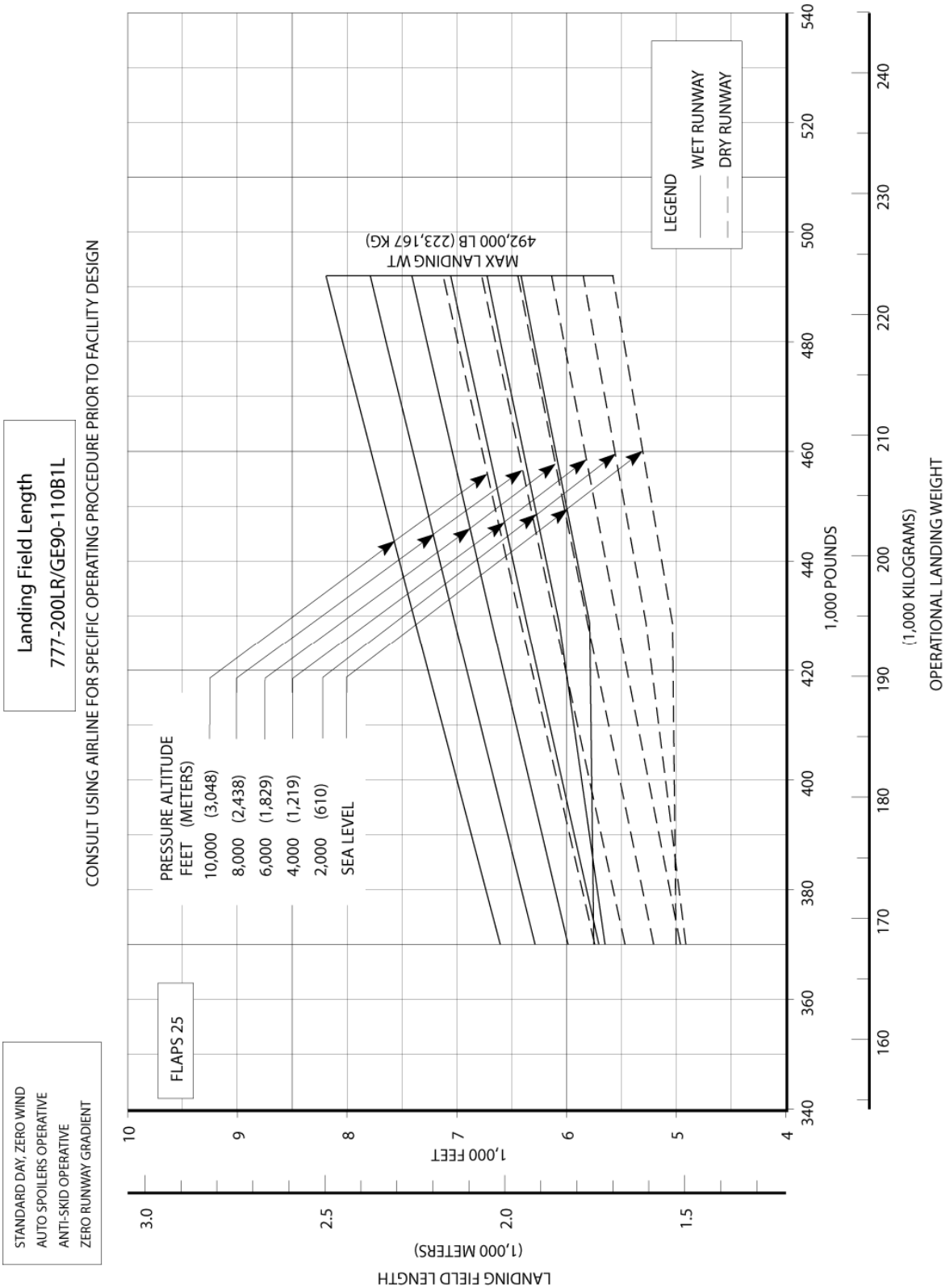
3.3.19 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY + 49°F (STD + 27° C)

MODEL 777F (GE90-115BL ENGINES)



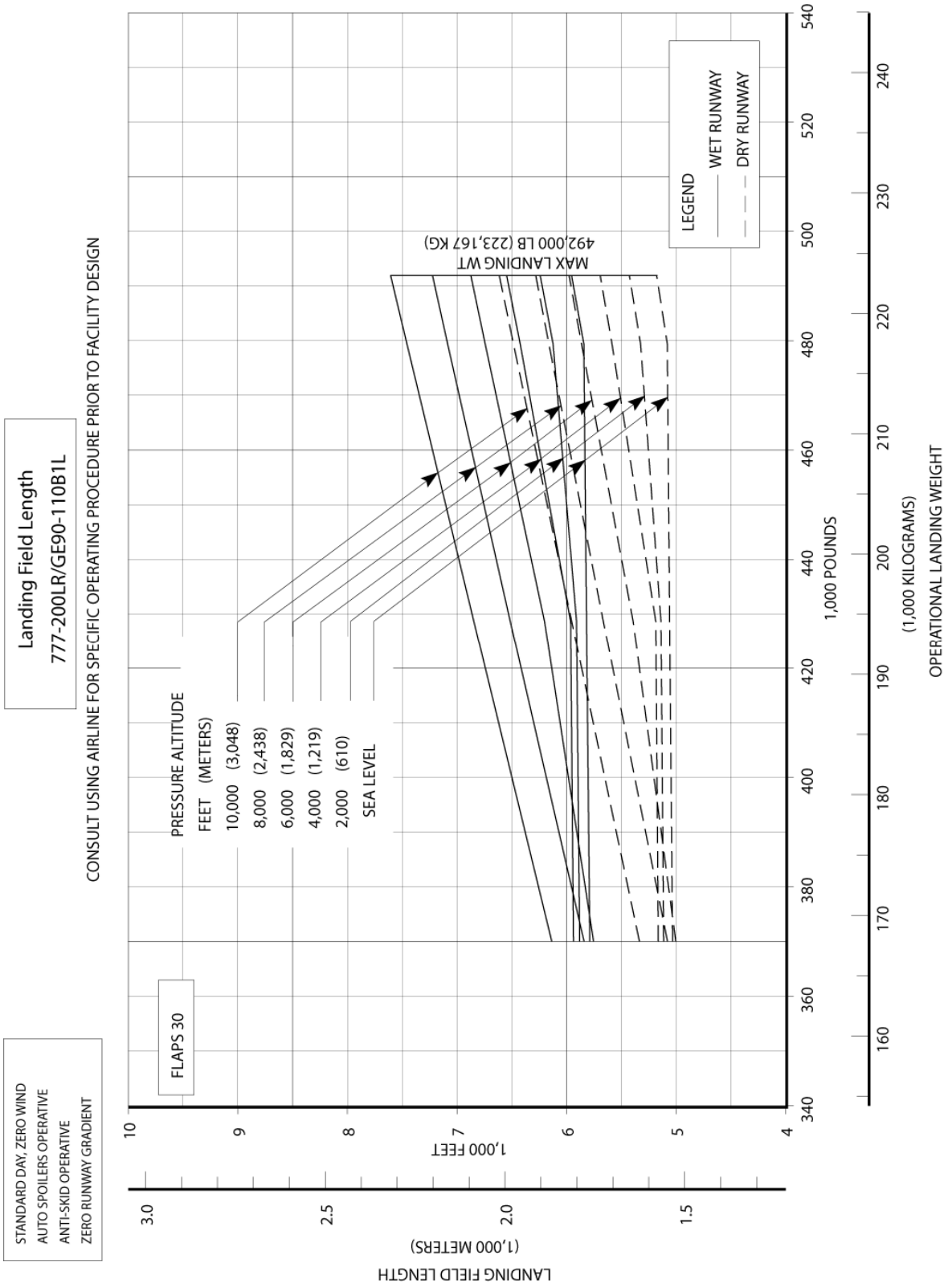
3.3.20 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS STANDARD DAY + 59°F (STD + 33° C)

MODEL 777F (GE90-115BL ENGINES)



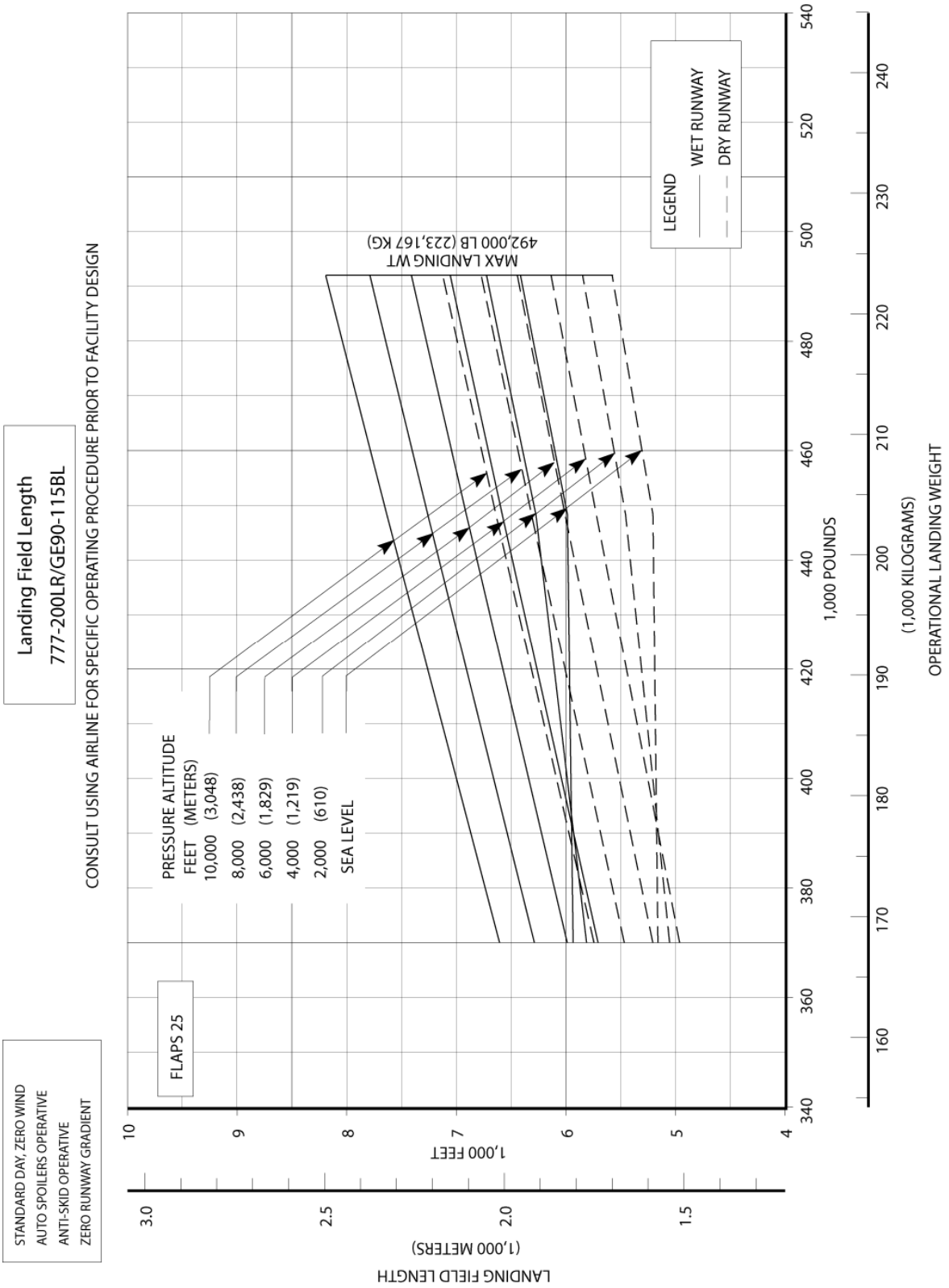
3.4.1 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 25

MODEL 777-200LR (GE90-110B1L ENGINES)



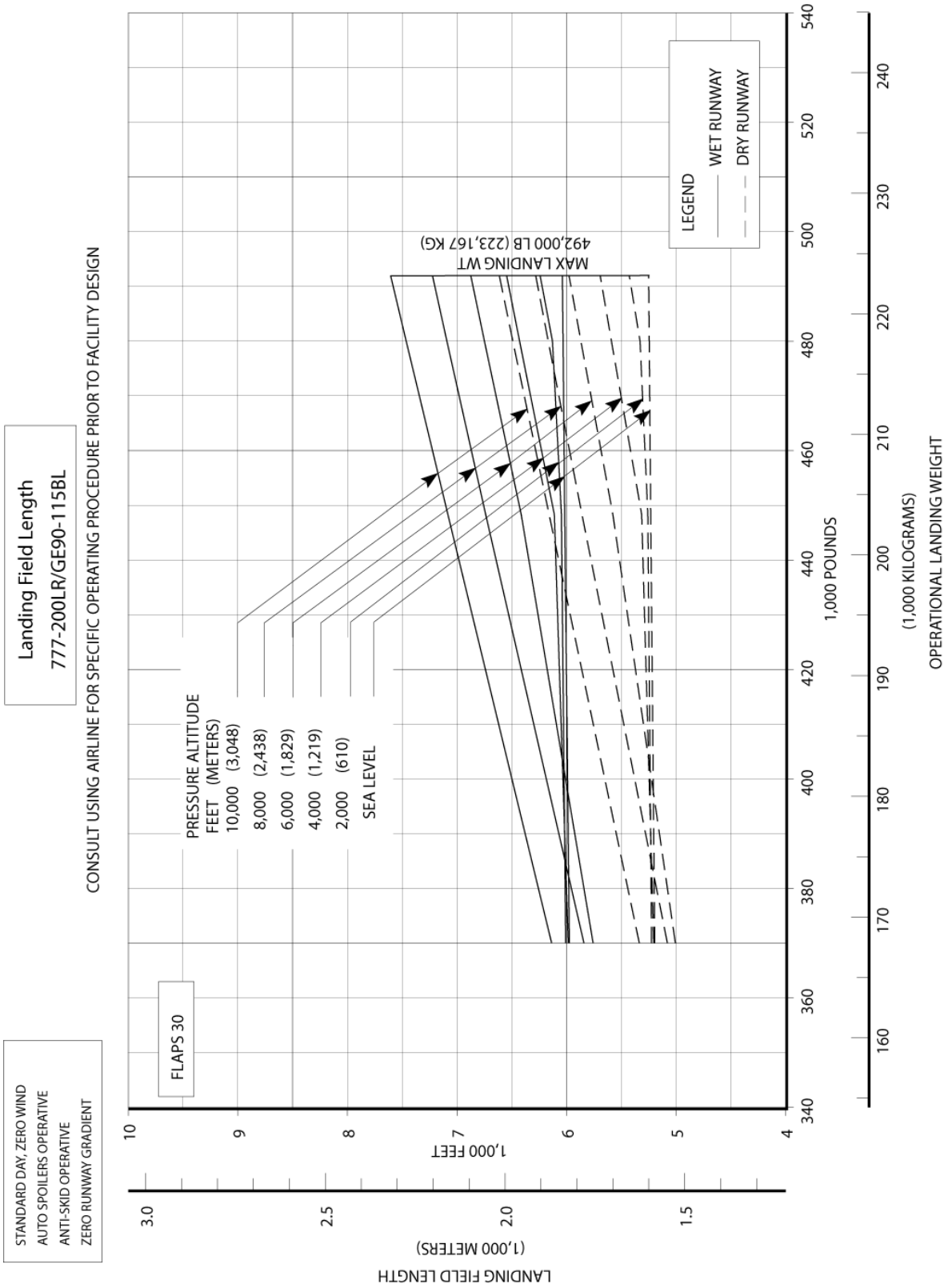
3.4.2 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 30

MODEL 777-200LR (GE90-110B1L ENGINES)



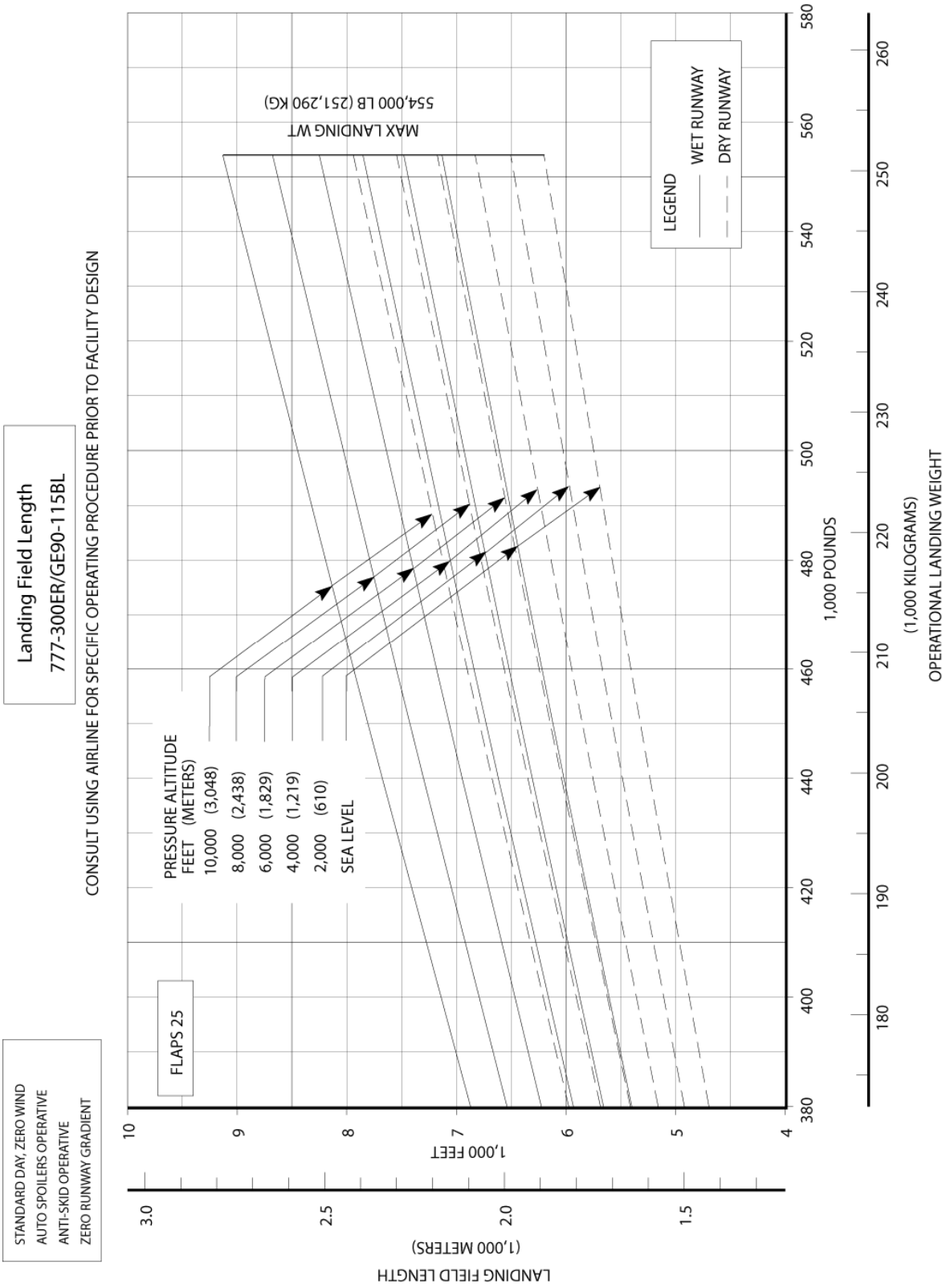
3.4.3 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 25

MODEL 777-200LR (GE90-115BL ENGINES)



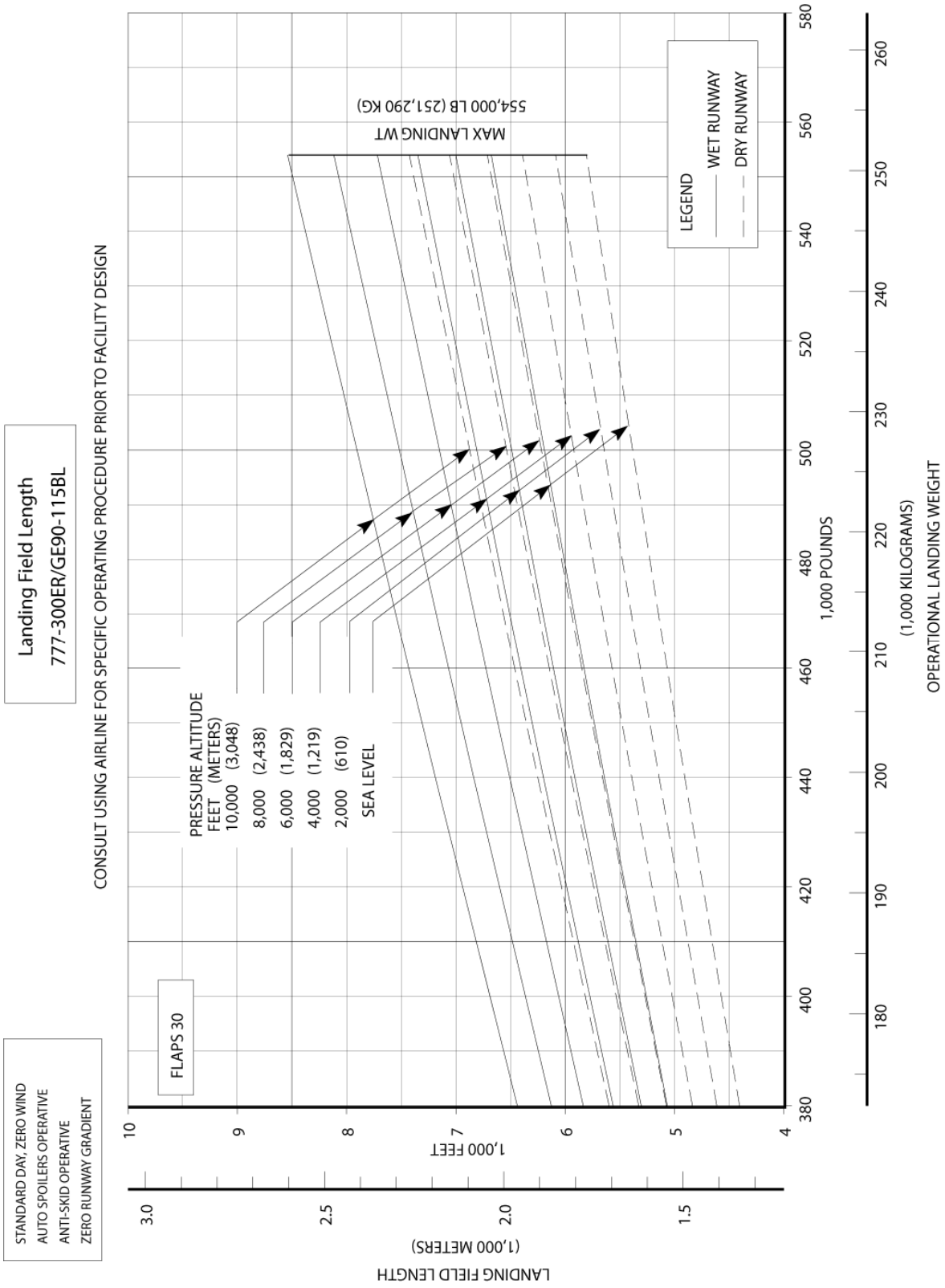
3.4.4 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 30

MODEL 777-200LR (GE90-115BL ENGINES)



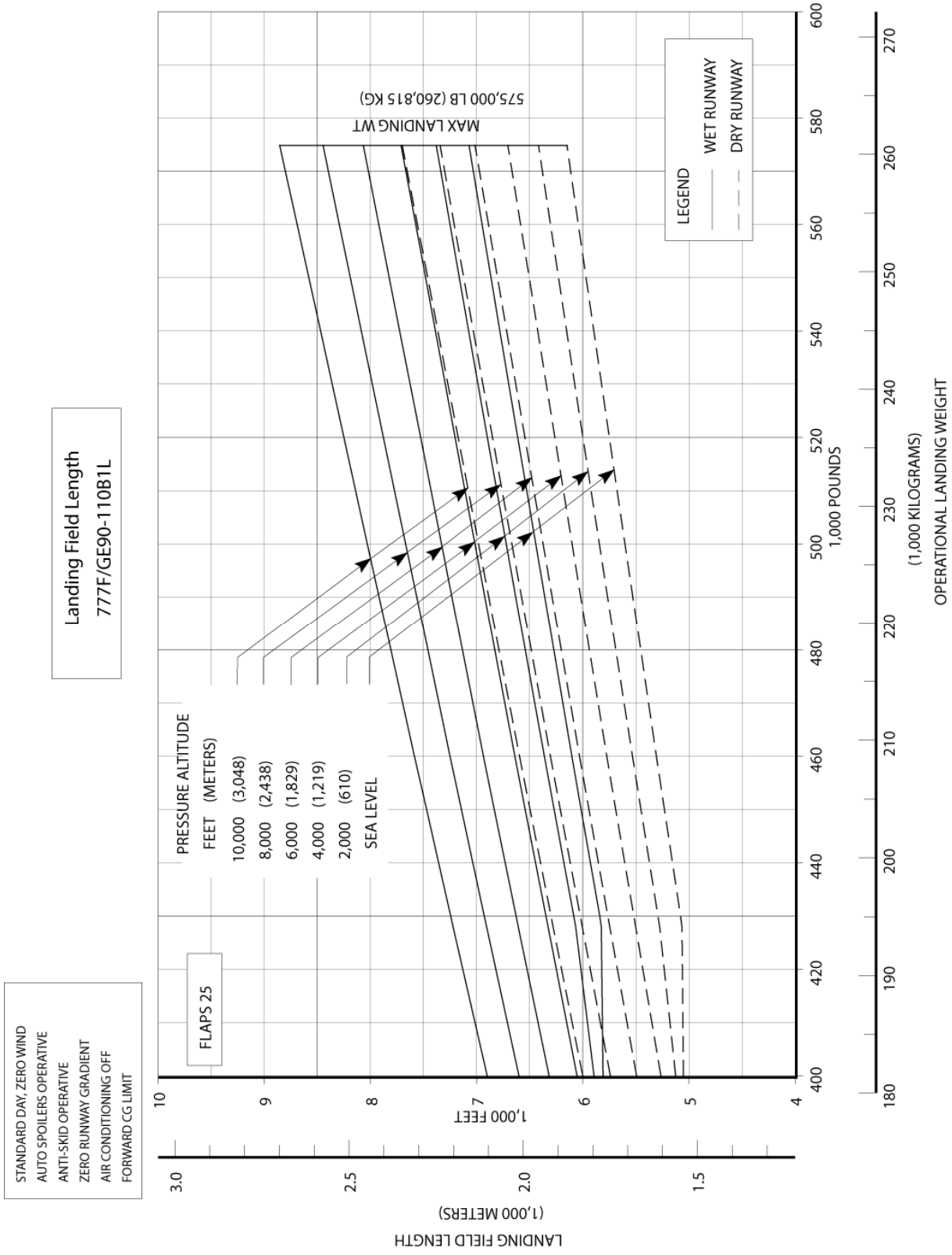
3.4.5 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 25

MODEL 777-300ER (GE90-115BL ENGINES)



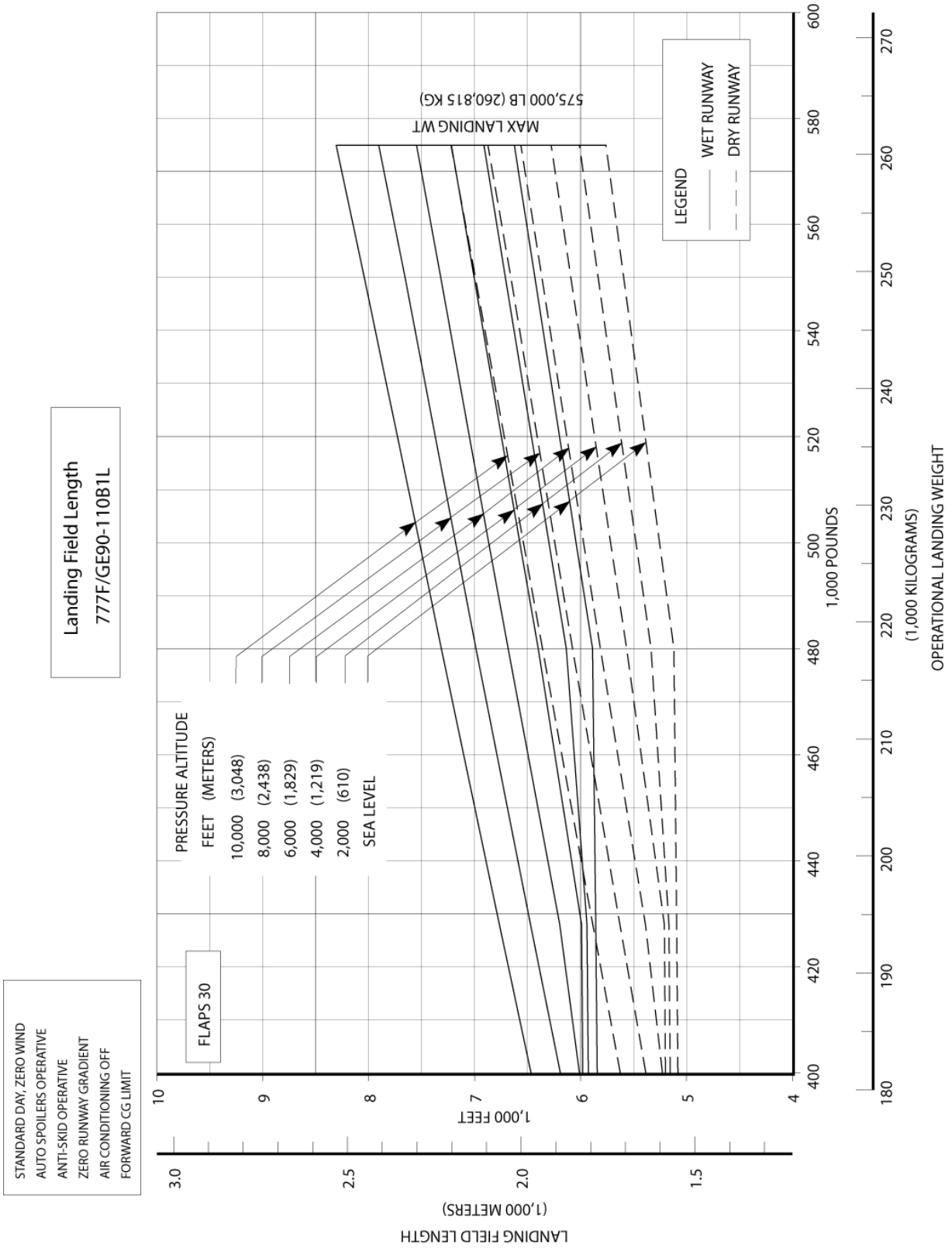
3.4.6 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 30

MODEL 777-300ER (GE90-115BL ENGINES)



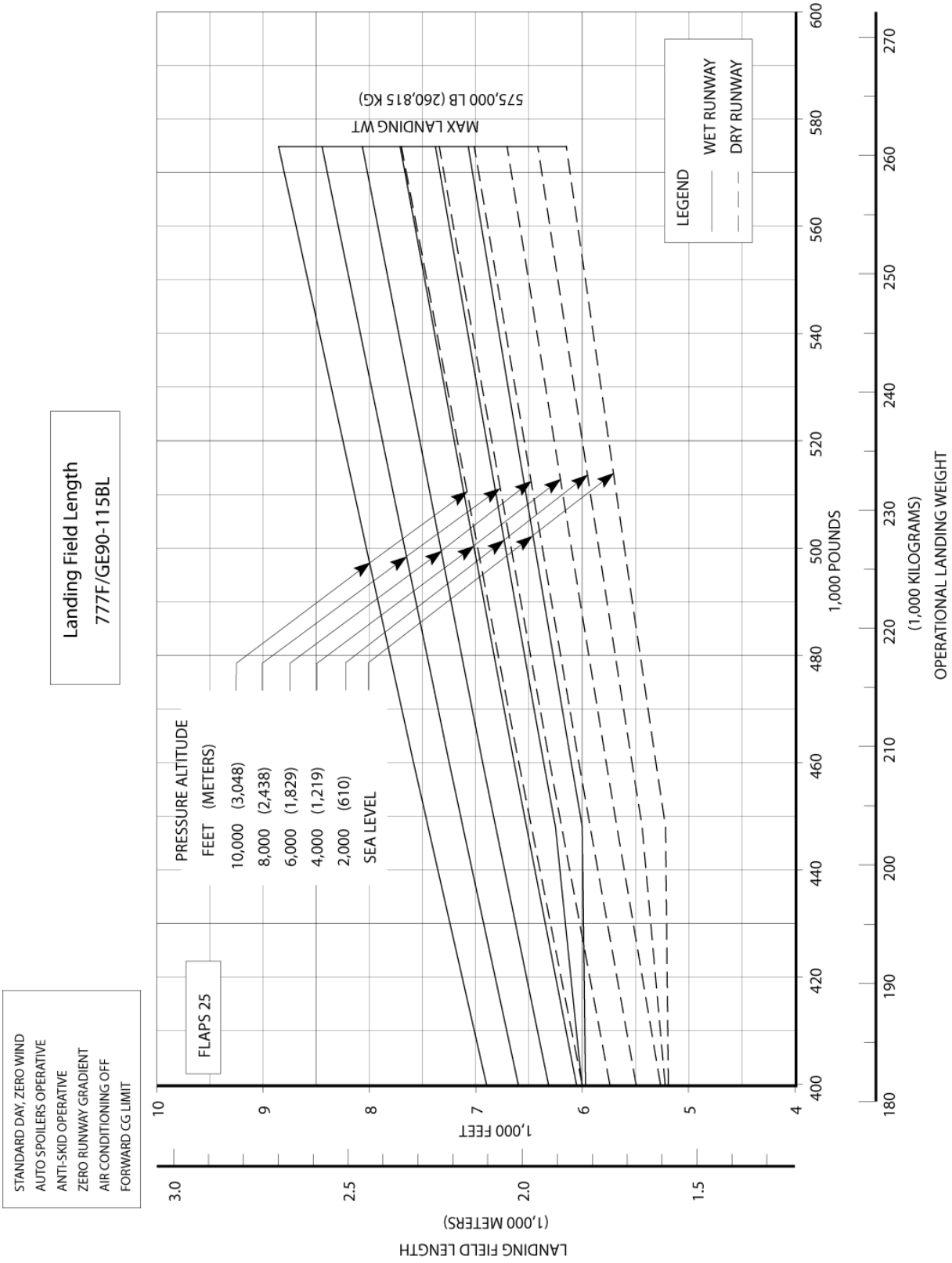
3.4.7 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 25

MODEL 777F (GE90-110B1L ENGINES)



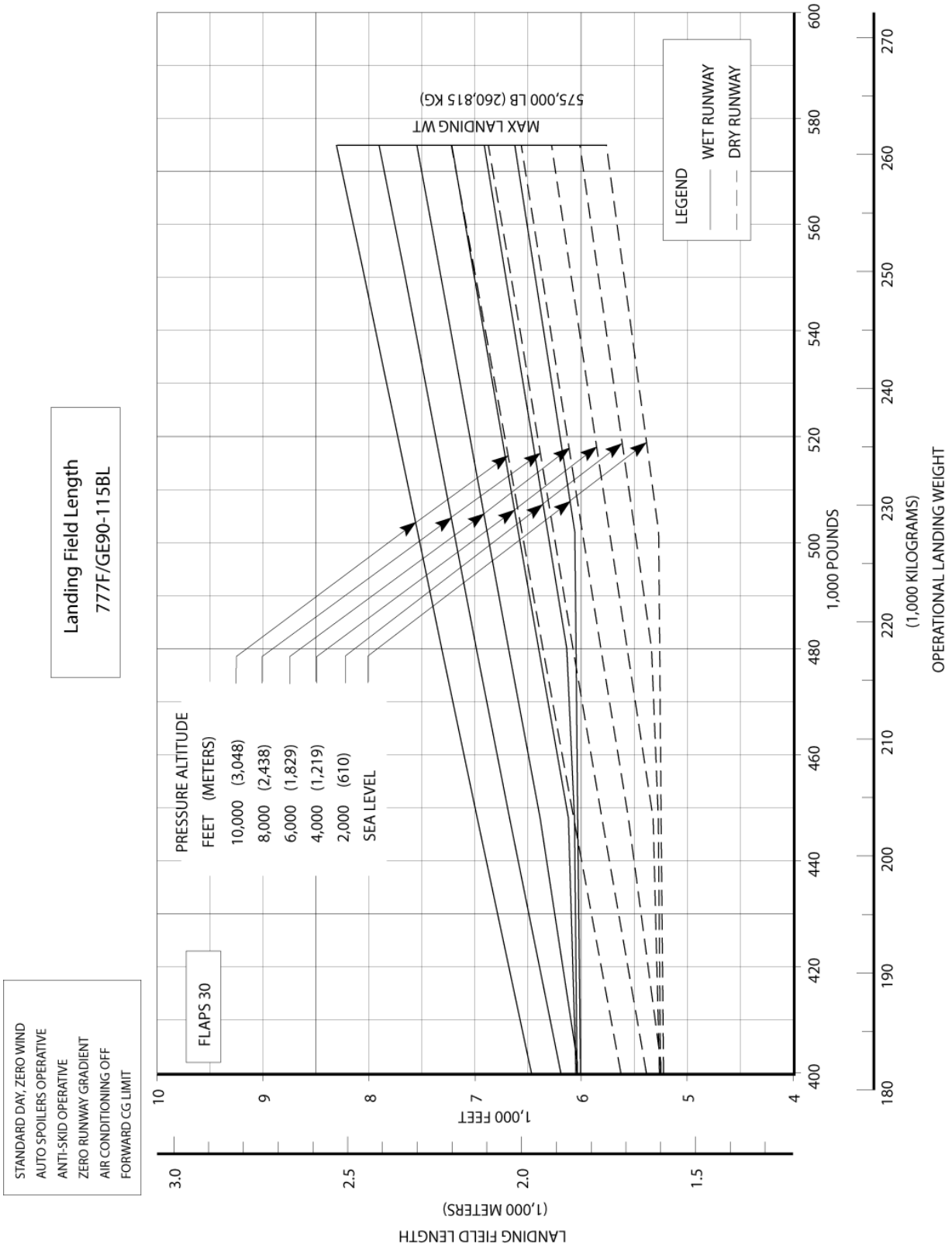
3.4.8 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 30

MODEL 777F (GE90-110B1L ENGINES)



3.4.9 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 25

MODEL 777F (GE90-115BL ENGINES)



3.4.10 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS – FLAPS 30

MODEL 777F (GE90-115BL ENGINES)

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