

PART 5 - CRUISE

TABLE OF CONTENTS

INTRODUCTION	5-1
DEFINITIONS APPLICABLE TO CRUISE	5-1
MAXIMUM CRUISE	5-1
ALL ENGINES OPERATING	5-1
ONE ENGINE INOPERATIVE	5-2
LONG RANGE CRUISE	5-3
ALL ENGINES OPERATING	5-3
ONE ENGINE INOPERATIVE	5-4
OPTIMUM CRUISE ALTITUDE	5-5
DRIFTDOWN	5-7

LIST OF FIGURES

5-1	Máximo Cruise Power (CRZ1). 2 Engines	5-11
5-2	Máximo Cruise Power (CRZ2). 2 Engines	5-27
5-3	Máximo Cruise Power (MCT). 1 Engine	5-42
5-4	Long Range Cruise. 2 Engines	5-52
5-5	Long Range Cruise. (MCT). 1 Engine	5-79
5-6	Specific Range. CRZ1. 2 Engines	5-89
5-7	Specific Range. CRZ2. 2 Engines	5-96
5-8	Cruise Altitude Selection. 2 Engines	5-103
5-9	Maximum Cruise Altitude for Short Range Missions. 2 Engines	5-108
5-10	Absolute Ceiling. Máximo Continuous Power (MCT). 1 Engine	5-109
5-11	Driftdown Chart. Máximo Continuous Power (MCT). 1 Engine	5-110
5-12	Relation Between Pressure and Geometrical Altitude	5-111
5-13	Effect of Wind on Horizontal Distance of Driftdown	5-112

INTRODUCTION

This part contains all-engines operating and one-engine inoperative cruise performance data applicable to the aircraft with flaps up, landing gear up and doors and ramp closed. Single-engine cruise data assumes the propeller feathered on the inoperative engine.

This effect of flying with landing gear extended may be calculated adding 140 drag index units to the aircraft configuration.

Data on two type of constant altitude cruise, long range and maximum speed, as well as data on driftdown performance, are presented.

The range is a function of fuel and speed. As the fuel used increases with the increase in power (for a given aircraft weight and cruise altitude), the maximum range is not usually obtained with maximum speed. For a given mission where fuel economy is more important than speed, the best results will be obtained flying at low power settings. The information supplied in this part gives the pilot the option to choose the type of cruise that best fit his particular mission.

CAUTION

At low flight levels, the speed values given in the table could exceed structural speed limits shown on limitations chapter of Operational Manual (Vol. II). In this case, limitations values are predominant.

DEFINITIONS APPLICABLE TO CRUISE

Maximum cruise, 2 engines operative: Cruise flight at maximum speed setting maximum cruise power on both engines.

Maximum cruise, 1 engine operative: Cruise flight with one engine inoperative setting maximum continuous power on the operative engine.

Specific range: True airspeed divided by total fuel flow; or nautical miles per pound (or Kg) of fuel.

Specific ground range: Ground speed divided by total fuel flow; or ground nautical miles divided per pound (or Kg) of fuel.

Maximum specific range: The maximum value of the specific range for a given altitude and weight.

Long range speed: The greatest speed of the two speeds at which 99 percent of the maximum specific range is attainable at the momentary weight and altitude.

Long range cruise: Cruise technique that consists of flying at long range speed and constant altitude.

MAXIMUM CRUISE

ALL ENGINES OPERATING

In Figure 5-1 a summary of two-engine cruise at maximum cruise speed, for maximum cruise power (90% N_p), from sea level to an altitude of 30.000 ft, ISA -20°C to ISA +20°C, is given. This power is selected (see chapter 2) setting the Power rating selector (PRS) on CRZ1 position and power levers on Max Auto position. The maximum cruise data are given with 2 operative engines, engine anti-ice off and ECS on.

The torque (%), specific range (NM/100 kg), fuel flow per engine (kg/hr), indicated air speed (KIAS) and true air speed (KTAS) data are given in tabular form to make their use easier.

In Figure 5-2 a summary of two-engine cruise at maximum cruise speed, for maximum cruise power (80% N_p), from sea level to an altitude of 30.000 ft, ISA -20°C to ISA +20°C, is given. This power is selected (see chapter 2) setting the Power rating selector (PRS) on CRZ2 position and power levers on Max Auto position. The data are given in a similar way to that in Figure 5-1 Maximum Cruise Power (CRZ1). 2 Engines.

In Figure 5-6 Specific Range graphs as a function of air speed and aircraft weight, from sea level to an altitude of 30.000 ft for cruise power rating CRZ1, are given.

In figure 5-7 Specific Range graphs, similar to Figure 5-6, for cruise power rating CRZ2, are given.

Drag Index Correction

The correction due to drag index on the two-engine cruise performance is as follows:

- Decrease SPECIFIC RANGE by 5% per each 50 units of drag index when $DI \leq 100$ and by 3% per each 50 units of drag index for $DI > 100$.
- No correction is required for FUEL FLOW.
- Decrease INDICATED AIRSPEED 10 kt per each 50 units of drag index.
- Decrease TORQUE by 1% per each 50 units of drag index.

Effect of Wind

The effect of the wind on the cruise performance is an increase or decrease of the ground speed by the same amount as the tailwind or headwind component.

Ground speed = True speed - headwind or + tailwind

ONE ENGINE INOPERATIVE

A summary of single-engine cruise data at maximum speed for maximum continuous power on the operative engine, from sea level to an altitude of 25.000 ft, ISA -20°C to ISA +20°C, is given in Figure 5-3. The data for maximum cruise, 1 engine out, are given for 100% N_p , engine anti-ice off and propeller feathered on inoperative engine. PRS selector sets in MCT and Max Auto position. The data are given in tabular form, in a similar way to those in Figure 5-1.

Drag Index Correction

The correction due to drag index on the single maximum continuous cruise data is as follows:

- Decrease SPECIFIC RANGE by 4% per each 50 units of drag index.
- No correction is required for FUEL FLOW.
- Decrease INDICATION AIRSPEED 8 kt per each 50 units of drag index when $DI \leq 100$ and by 5 kt per each 50 units of drag index for $DI > 100$.
- Decrease TORQUE by 1% per each 50 units of drag index.

Effect of Wind

Similar to the two-engines correction.

Effect of Engine Anti-Ice

In the C-295 the effect of engine anti-ice with all engines or one engine inoperative is negligible.

Example

Given:

1. Maximum cruise: 2 engines operative.
2. Engine anti-ice: off.
3. 90% N_p .
4. Altitude: 20.000 ft (FL 200).
5. Aircraft weight: 19.000 Kg.
6. ISA + 10°C.

Results:

1. Indicated torque (Figure 5-1, sheet 12)	56 %
2. Specific range (Figure 5-1, sheet 12)	40.1 NM/100 kg
3. Fuel flow per engine (Figure 5-1, sheet 12)	293 kg/hr
4. Indicated airspeed (Figure 5-1, sheet 12)	171 KIAS
5. True airspeed (Figure 5-1-, sheet 12)	235 KTAS

LONG RANGE CRUISE

ALL ENGINES OPERATING

A summary of two-engine long range cruise data, engine anti-ice off, from sea level to an altitude of 30.000ft, ISA-20°C to ISA+20°C. Performance data are given for CRZ1 (90% N_p) and CRZ2 (80% N_p) positions on PRS, cruise is possible with any of them. Range is maximum at high flight levels ($H_p > 10.000$ ft) with CRZ1 position while the range is maximum at low flight levels with CRZ2 position. However, CRZ2 position may be recommended for long time cruise to avoid noise inside the cabin due to propeller revolutions.

Drag Index Correction

The correction due to drag index on the two-engine long range cruise performance is as follows:

- Decrease SPECIFIC RANGE by 5% per each 50 units of drag index.
- Increase FUEL FLOW by 2.5% per each 50 units of drag index.
- Decrease INDICATED AIRSPEED by 8 kt per each 50 units of drag index when $DI \leq 100$ and by 6 kt per each 50 units of drag index for $DI > 100$.
- Increase TORQUE by 3.5% per each 50 units of drag index.

Effect of Wind

The effect of the wind on the cruise performance is an increase or decrease of the ground speed by the same amount as the tailwind or headwind component.

Ground speed = True speed - headwind or + tailwind

When strong winds are present at actual cruise flight level, the long range speeds given in Figure 5-4 should be modified as follows:

- TAILWIND: Decrease the long range speed by 3% for every 25 kt of tailwind.
Limit: Never decrease the long range speed below the maximum endurance speed.
- HEADWIND: Increase the long range speed by 4% for every 25 kt of headwind.
Limit: Maximum cruise power.

ONE ENGINE INOPERATIVE

A summary of single-engine long range cruise data, 100 N_P, engine anti-ice off, from sea level to an altitude of 23.000 ft, ISA -20°C to ISA +20°C, is given in Figure 5-5. Then propeller of the inoperative engine is feathered. PRS selector sets in MCT position and Max Auto. The data are given in tabular form, in a similar way to that of Figure 5-1.

Drag Index Correction

The correction due to drag index on the single engine long range cruise performance is as follows:

- Decrease SPECIFIC RANGE by 6% per each 50 units of drag index when DI ≤ 100 and by 4% per each 50 units of drag index for DI > 100.
- Increase FUEL FLOW by 2.5% per each 50 units of drag index.
- Decrease INDICATED AIRSPEED by 4 kt per each 50 units of drag index.
- Increase TORQUE by 3% per each 50 units of drag index.

Effect of Wind

The effect of the wind on the cruise performance is an increase or decrease of the ground speed by the same amount as the tailwind or headwind component.

Ground speed = True speed - headwind or + tailwind.

When strong winds are present at actual cruise flight level, the long range speeds given in Figure 5-5 should be modified as follows:

- TAILWIND: Decrease the long range speed by 1.5% for every 25 kt of tailwind.
Limit: Never decrease the long range speed below the maximum endurance speed.
- HEADWIND: Increase the long range speed by 2.5% for every 25 kt of headwind.
Limit: Maximum continuous power.

Effect of Engine Anti-Ice

In the C-295 the effect of engine anti-ice with all engines or one engine inoperative is negligible.

OPTIMUM CRUISE ALTITUDE

The type of mission to be carried out determines the type of cruise schedule required. Therefore, a particular cruise schedule must be selected to maximize or minimize the cruise parameter which ensures the most efficient execution of the mission.

Generally these cruise parameters are time and range, and the corresponding power settings are as follows:

- **TIME:** The cruise schedule is chosen to minimize the flight time. The power setting must be the maximum usable power (maximum cruise power or maximum continuous power, depending on the number of operative engines).
- **RANGE:** The cruise schedule is chosen to maximize the range. The power setting must be the appropriate one to maintain the speed for long range corresponding to the actual conditions of weight, altitude and temperature.

Optimum altitude

- **OPTIMUM ALTITUDE FOR MINIMUM TIME:** Is the pressure altitude at which the maximum ground speed is obtained. For this aircraft, and two-engine operation, this altitude is established at 15.000 ft (FL 150). For single-engine operation, the optimum altitude for a minimum time depends on the aircraft weight and temperature (obtain the corresponding TAS values from Figure 5-3).
- **OPTIMUM ALTITUDE FOR MAXIMUM RANGE:** Is the pressure altitude at which the maximum specific ground range is obtained. The recommended altitude is the cruise ceiling.

The optimum altitudes described above are applicable to any condition of constant wind. If the winds are significantly different at different altitudes (wind gradient). Figure 5-8 gives the optimum altitude for maximum range with two-engines operative.

In a short range mission, the optimum altitude could be higher than the altitude reached by the aircraft for that mission. That is, the horizontal distance required to climb to the optimum altitude plus the horizontal distance required to descend from that altitude is greater than the distance between the origin and destination airfields. Figure 5-9 gives the maximum cruise altitude for short range missions, under the following conditions: two-engines operative, between sea level airfields, 70 Kg of fuel used for acceleration, climb at maximum cruise power and 140/130 KIAS speed, descent at 200 KIAS and Flight Idle.

A summary of optimum cruise performances is shown on the next page.

Use of Graphs

- I Figure 5-8. Enter the graph with the first pressure altitude, move horizontally towards the right to the reported wind and vertically downwards to the reference line. Continue parallel to the guidelines until the aircraft weight is reached, and from the point of intersection vertically downwards. Read on the bottom horizontal scale the specific ground range. Proceed in a similar manner with the second pressure altitude. The altitude at which the specific ground range is higher, will be the optimum altitude for maximum range.
- I Figure 5-9. Enter the graph with the horizontal distance between the origin and destination airfields, move vertically upwards to the reported wind, and, from there, continue parallel to the guidelines to the first reference line. From this point move vertically upwards until the ISA deviation is reached and then parallel to the guidelines to the second reference line. From this point move vertically upwards to the aircraft weight and horizontally towards the left. Read the pressure altitude on the vertical scale.

SUMMARY OF OPTIMUM CRUISE PERFORMANCES

		TO MINIMIZE TIME	TO MAXIMIZE RANGE
ALL ENGINES OPERATING	POWER		MAXIMUM CRUISE
	% N _P		90% 90%: FL ≥ 100 80%: FL < 100
	FLIGHT LEVEL	CONSTANT WIND	Cruise ceiling (Figure 4-13)
ONE ENGINE INOPERATIVE	FLIGHT LEVEL	WIND GRADIENT	150 Obtain the ground speed from tables in Figure 5-1 Figure 5-8
		POWER	MAXIMUM CONTINUOUS
		% N _P	100% 100%
		CONSTANT WIND	Obtain the ground speed from tables in Figure 5-3 Cruise or service ceiling (Figure 4-15 and 4-16) depends on the range or terrain clearance requirements
		WIND GRADIENT	Obtain the specific ground range from tables in Figure 5-5

Example 1

Conditions:

1. Maximum range cruise, 2 engines operative.
2. Aircraft weight: 15.200 Kg.
3. ISA deviation: -20°C.
4. Wind at 18.700 ft: 20 Kt, tailwind.
5. Wind at 22.500 ft: 60 Kt, tailwind.

Results:

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> I 1. Specific ground range at 18.700 ft (Figure 5-8) I 2. Specific ground range at 22.500 ft (Figure 5-9) I 3. Optimum altitude for long range cruise | 42 NM/100 kg
36 NM/100 kg
18.700 ft |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|

Example 2

Conditions:

1. Short range mission, 2 engines operative.
2. Distance between origin and destination airfields: 95 NM.
3. Airfields altitude: See level.
4. ISA deviation: -15°C.
5. Aircraft takeoff weight: 23.000 Kg.
6. Climb at maximum cruise power, 140/130 KIAS.
7. Descent speed: 200 KIAS.
8. Wind speed: 50 kt, headwind.

Results:

- | 1. Maximum cruise altitude (Figure 5-9) 22.500 ft

DRIFTDOWN

Driftdown is the forced descent due to the loss of power resulting after an engine failure during two-engines cruise operation. The performance of this section allows to obtain the en route obstacle clearance with engine failure.

- | The Figure 5-11 shows the en route flight paths at ISA conditions and still air for various initial aircraft gross weights, applicable for system anti-ice off and ECS on. For each gross weight, the en route flight path represent the actual single-engine descent performance. The paths are drawn from different initial distance values for each weight in order to help the reading across the curves. The en route flight paths are calculated at the following conditions:
 - ISA, zero wind and initial pressure altitude is 30 000 ft.
 - Calculation of descent is finished when climb gradient is 0 fpm.
 - One engine inoperative with propeller feathered and maximum continuous power on operating engine during the descent (driftdown).
 - Flaps UP, anti-ice off and ECS on.
 - Airspeed equal to single-engine best climb airspeed (1,24 V_{SR}).

- | When temperature deviation from ISA is non zero, then an equivalent gross weight must be obtained from the single-engine absolute ceiling graph (Figure 5-10). This equivalent weight is the aircraft gross weight for which the absolute ceiling in ISA conditions is conservatively equal to the absolute ceiling at actual temperature deviation from ISA.
- | Two types of en route flight paths are shown on Figure 5-11.
 - En route gross flight paths that include the variation of weight along the flight path accounting for the progressive consumption of fuel by the operating engine. These ones (thick lines) are used to account the altitude lost, horizontal distance and time elapsed during the driftdown.
 - Constant weight gross flight paths used to compute the fuel consumed during driftdown.

- | Two additional graphs are provided in order to obtain the driftdown geometrical data in a more accurate way. The Figure 5-12 shows the relation between pressure altitude and geometrical altitude and the Figure 5-13 allows to obtain the horizontal distance for zero wind conditions.

Drag Index Correction

When the aircraft has a drag index, the equivalent gross weight obtained from the single engine absolute ceiling of Figure 5-10 must be used.

Effect of Anti-Ice

About absolute ceilings the effect of anti-ice on is negligible.

Use of Graphs

1. Determination of Geometrical Height of Ceiling with One Engine Inoperative.

Figure 5-10. Enter the graph with the actual aircraft weight at the time of engine failure and proceed vertically upwards to the baseline of drag index correction grid, and follow the guideline to the appropriate drag index value. From this point, proceed vertically upwards to intercept the line appropriate to the value of the ambient temperature deviation from ISA; thence, proceed horizontally to the vertical scale to the left to read off the corresponding pressure altitude (single-engine absolute ceiling). Use such value of pressure altitude on Figure 5-12 to derive the corresponding correction value to derive geometrical altitude (single-engine absolute ceiling). Compare such value with the height of the obstacle to be cleared. If obstacle height does not exceed the geometrical height (single-engine absolute ceiling), obstacle clearance will occur provided cruise altitude is selected at or above the pressure altitude (single-engine absolute ceiling) above, in which case there is no need to proceed further with the procedure; otherwise, continue as described next.

2. Determination of Still Air Obstacle Horizontal Distance in Driftdown.

Figure 5-13. Enter the graph, on the horizontal scale, with the value of the wind component and proceed vertically upwards to intercept the appropriate value of the obstacle horizontal distance on the vertical scale; then, read off the value of the still air obstacle horizontal distance in the driftdown.

3. Determination of Equivalent Aircraft weight at Initial Driftdown.

Enter again the graph of Figure 5-10, on the vertical scale, with the value of pressure altitude (absolute ceiling) and proceed horizontally to intercept the appropriate line of ISA deviation; thence, proceed vertically down to the horizontal scale to read off the corresponding weight value. The resulting weight value thus determined is the value of the equivalent aircraft weight at initial driftdown.

4. Determination of Time and Minimum Altitude in Driftdown.

Figure 5-11. Enter the graph, at the vertical scale, with the initial pressure altitude and proceed horizontally to the right to intercept the appropriate curve (fine line) for the value of the equivalent aircraft weight at initial driftdown point, and draw the driftdown flight path line through such point. Note the value of the time on the corresponding dashed line at that point, and thence proceed vertically down to read off a reference distance value on the horizontal distance scale. Add such reference distance value to the still air obstacle horizontal distance derived in step 2 above to obtain a new horizontal distance value. Enter graph again with this newly derived horizontal distance and move up to intercept the corresponding driftdown flight path line (heavy line) and note both the new value of the corresponding pressure altitude on the vertical scale and the new value of the time on the corresponding dashed line. The difference between the two time values is the time to driftdown. The resulting new value of the pressure altitude is the pressure altitude during the driftdown at obstacle location.

5. Determination of Geometric Altitude at Obstacle Location in Driftdown.

- | Finally enter graph of Figure 5-12, on the vertical scale, with the pressure altitude during the driftdown at obstacle location derived earlier and proceed horizontally to intercept the line for the corresponding value of the ambient temperature deviation from ISA conditions; thence, proceed vertically down to the horizontal scale to read off the value of the corresponding altitude correction to be applied to the pressure altitude to obtain the corresponding geometrical altitude to be used for obstacle clearance purposes.

Example

Conditions:

1. Initial flight pressure altitude: 22 000 ft.
2. Aircraft weight: 18 500 Kg.
3. Drag Index: 40
4. Temperature deviation from ISA: +20°C.
5. Wind component: 40 Kt tailwind.
6. Obstacle height: 14 000 ft.
7. Obstacle distance: 152 NM.

Results:

- | 1. Enter graph of Figure 5-10 with weight, drag index and expected ISA temperature deviation. The resulting absolute ceiling is: 12 000 ft
- | 2. Using absolute ceiling and ISA temperature deviation on graph of Figure 5-12, the geometric height correction to absolute ceiling is: 900 ft
- | 3. The value of geometric height of absolute ceiling is (12 000 + 900): 12 900 ft
The resulting value is less than obstacle height (14 000 ft), therefore, the procedure must be continued as follow.
- | 4. Enter graph of Figure 5-11 with wind component and obstacle 125 NM distance the resulting still air obstacle distance is:
- | 5. Go back to Figure 5-10 with absolute ceiling on step 1. The resulting equivalent weight at initial driftdown is: 22 000 kg
- | 6. Enter graph of Figure 5-11 with initial pressure altitude and equivalent weight. The following values result.
Reference Time: 12 min
Reference Horizontal Distance: 145 nm
- | 7. Add reference distance on step 6 to still air distance from step 4. The 270 NM resulting value is (125 + 145):
- | 8. Use the value of distance on Figure 5-11. The resulting pressure altitude at obstacle location is: 13 600 ft
The new time value is: 53 min

- 9. Subtract the reference time value on step 6 from the new time value on step 8. The resulting driftdown time is: 41 min
- I 10. Go back to Figure 5-12 with pressure altitude at obstacle location and ISA temperature deviation. The resulting geometric correction to pressure altitude at obstacle location is: 1000 ft
- 11. Add correction on step 10 to pressure altitude at obstacle location on step 8. The resulting value of geometric altitude is: 14 600 ft

Since this value is higher than obstacle height (14.000 ft), the flight may proceed at the proposed pressure altitude (22.000 ft).

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA -20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL SAT -5 °C	FL 10 SAT -7 °C	FL 20 SAT -9 °C	FL 30 SAT -11 °C	FL 40 SAT -13 °C	FL 50 SAT -15 °C
12	90	90	90	90	90	90
	24.8 485	25.3 480	25.8 475	26.3 470	26.8 465	27.3 460
	251 240	250 242	249 245	248 247	247 249	246 252
14	90	90	90	90	90	90
	24.6 485	25.1 480	25.6 475	26.1 470	26.6 465	27.2 460
	250 239	249 241	248 243	247 246	245 248	244 250
16	90	90	90	90	90	90
	24.5 485	25.0 480	25.5 475	26.0 470	26.5 466	27.0 461
	249 238	247 240	246 242	245 244	244 247	243 249
18	90	90	90	90	90	90
	24.4 485	24.8 480	25.3 475	25.8 471	26.3 466	26.9 461
	247 236	246 238	245 241	244 243	243 245	242 248
20	90	90	90	90	90	90
	24.3 485	24.7 480	25.2 476	25.7 471	26.2 466	26.7 461
	246 235	245 237	244 239	243 242	241 244	240 246
22	90	90	90	90	90	90
	24.1 485	24.6 481	25.0 476	25.5 471	26.0 466	26.5 461
	245 234	244 236	242 238	241 240	240 242	239 245
23	90	90	90	90	90	90
	24.0 485	24.5 481	24.9 476	25.4 471	25.9 466	26.4 461
	244 233	243 235	242 237	240 239	239 241	238 244
WEIGHT (1000 kg)	FL 60 SAT -17 °C	FL 70 SAT -19 °C	FL 80 SAT -21 °C	FL 90 SAT -23 °C	FL 100 SAT -25 °C	FL 110 SAT -27 °C
12	90	90	90	90	90	89
	27.8 457	28.3 453	28.8 449	29.3 445	29.9 442	30.4 437
	244 254	243 256	242 259	241 261	239 264	238 265
14	90	90	90	90	90	89
	27.6 457	28.1 453	28.6 449	29.1 446	29.7 442	30.2 437
	243 253	242 255	241 257	239 260	238 262	236 264
16	90	90	90	90	90	89
	27.5 457	28.0 453	28.4 450	29.0 446	29.5 442	30.0 437
	242 251	240 253	239 256	238 258	237 261	235 262
18	90	90	90	90	90	89
	27.3 457	27.8 453	28.3 450	28.8 446	29.3 442	29.8 437
	240 250	239 252	238 254	237 257	235 259	233 261
20	90	90	90	90	90	89
	27.2 457	27.6 454	28.1 450	28.6 446	29.1 442	29.6 438
	239 248	238 251	236 253	235 255	234 258	232 259
22	90	90	90	90	90	89
	27.0 458	27.4 454	27.9 450	28.4 446	28.9 443	29.3 438
	237 247	236 249	235 251	233 253	232 256	230 257
23	90	90	90	90	90	89
	26.8 458	27.3 454	27.8 450	28.2 447	28.7 443	29.2 438
	236 246	235 248	234 250	232 252	231 254	229 256

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Figure 5-1 (Sheet 1 of 16) Máximo Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES
ISA -20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120 SAT -29 °C	FL 130 SAT -31°C	FL 140 SAT -33 °C	FL 150 SAT -35 °C	FL 160 SAT -37 °C	FL 170 SAT -39 °C
12	88 30.9 433 236 267	88 31.4 429 234 269	88 31.9 426 232 272	87 32.4 423 231 274	84 33.4 409 227 273	82 34.5 395 223 272
14	88 30.7 433 234 266	88 31.2 429 232 268	87 31.7 425 231 270	87 32.2 422 229 272	84 33.2 408 225 271	81 34.3 395 221 270
16	88 30.5 433 233 264	88 31.0 429 231 266	87 31.5 425 229 268	87 32.0 422 228 270	84 33.0 408 224 269	81 34.1 394 219 269
18	88 30.3 433 231 262	88 30.8 429 230 264	87 31.3 425 228 266	87 31.8 421 226 268	84 32.8 407 222 267	81 33.8 394 217 266
20	88 30.1 433 230 261	88 30.6 429 228 262	87 31.1 424 226 264	87 31.6 421 224 266	84 32.5 407 219 264	81 33.5 393 215 263
22	88 29.8 433 228 258	87 30.3 428 225 260	87 30.8 424 223 261	86 31.3 420 221 263	83 32.1 406 216 261	80 33.0 392 211 259
23	88 29.7 433 226 257	87 30.1 428 224 258	87 30.6 424 222 259	86 31.1 419 219 261	83 31.9 405 214 259	80 32.8 392 209 256

WEIGHT (1000 kg)	FL 180 SAT -41 °C	FL 190 SAT -43 °C	FL 200 SAT -45 °C	FL 210 SAT -47 °C	FL 220 SAT -49 °C	FL 230 SAT -51 °C
12	79 35.6 381 218 272	76 36.8 368 214 270	73 38.0 354 210 269	71 39.2 343 206 269	68 40.4 333 202 268	66 41.6 322 199 268
14	78 35.4 381 217 269	76 36.6 367 212 268	73 37.8 353 208 267	70 38.9 343 204 267	68 40.1 332 201 266	66 41.3 321 197 265
16	78 35.1 380 215 267	75 36.3 367 211 266	72 37.5 353 206 264	70 38.5 342 202 264	68 39.6 331 198 263	66 40.8 321 194 261
18	78 34.8 380 213 265	75 35.9 366 208 263	72 37.1 352 203 261	70 38.1 341 199 260	68 39.1 330 195 258	65 40.2 320 190 257
20	78 34.4 379 210 261	75 35.5 365 205 259	72 36.5 351 200 257	70 37.4 340 195 255	67 38.4 329 190 253	65 39.3 318 185 250
22	77 33.9 378 206 257	74 34.9 364 201 254	71 35.8 350 195 251	69 36.5 339 190 248	67 37.3 328 184 244	64 37.9 317 178 240
23	77 33.6 378 204 254	74 34.5 363 198 251	71 35.3 349 192 246	69 36.0 338 186 243	66 36.5 327 179 239	64 37.0 315 172 233

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Figure 5-1 (Sheet 2 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES ISA -20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **FLAPS:** UP (0°)
PROPELLERS: HS 568F-5 **ENGINE A/I:** OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 240		FL 250	
	SAT -53 °C		SAT -55 °C	
12	64		62	
	42.9	311	44.3	300
	195	267	191	266
14	64		61	
	42.5	311	43.9	300
	193	264	189	263
16	63		61	
	42.0	310	43.2	299
	190	260	185	258
18	63		61	
	41.3	309	42.4	298
	186	255	181	252
19	63		60	
	40.8	308	41.7	297
	183	251	178	248
20	62		60	
	40.1	307	41.0	296
	180	247	174	243
21	62		60	
	39.4	306	40.1	295
	176	241	169	236
22	62		59	
	38.5	305	38.9	293
	171	235	163	228
23	61			
	37.3	303		
	164	226		

15-A-156535-C-0117B-00003-A-01-1IÉô

Figure 5-1 (Sheet 3 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES
ISA -10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +5 °C	FL 10 SAT +3 °C	FL 20 SAT +1 °C	FL 30 SAT -1 °C	FL 40 SAT -3 °C	FL 50 SAT -5 °C
12	90	90	90	90	90	90
	24.8 485	25.3 480	25.8 475	26.3 470	26.8 465	27.3 460
	251 240	250 242	249 245	248 247	247 249	246 252
14	90	90	90	90	90	90
	24.6 485	25.1 480	25.6 475	26.1 470	26.6 465	27.2 460
	250 239	249 241	248 243	247 246	245 248	244 250
16	90	90	90	90	90	90
	24.5 485	25.0 480	25.5 475	26.0 470	26.5 466	27.0 461
	249 238	247 240	246 242	245 244	244 247	243 249
18	90	90	90	90	90	90
	24.4 485	24.8 480	25.3 475	25.8 471	26.3 466	26.9 461
	247 236	246 238	245 241	244 243	243 245	242 248
20	90	90	90	90	90	90
	24.3 485	24.7 480	25.2 476	25.7 471	26.2 466	26.7 461
	246 235	245 237	244 239	243 242	241 244	240 246
22	90	90	90	90	90	90
	24.1 485	24.6 481	25.0 476	25.5 471	26.0 466	26.5 461
	245 234	244 236	242 238	241 240	240 242	239 245
23	90	90	90	90	90	90
	24.0 485	24.5 481	24.9 476	25.4 471	25.9 466	26.4 461
	244 233	243 235	242 237	240 239	239 241	238 244

WEIGHT (1000 kg)	FL 60 SAT -7 °C	FL 70 SAT -9 °C	FL 80 SAT -11 °C	FL 90 SAT -13 °C	FL 100 SAT -15 °C	FL 110 SAT -17 °C
12	90	90	90	90	90	88
	27.8 463	28.2 459	28.8 455	29.3 452	29.8 448	30.6 437
	242 257	241 259	240 262	239 264	238 267	235 268
14	89	89	90	90	90	88
	27.6 463	28.1 459	28.6 456	29.1 452	29.6 448	30.4 438
	241 255	240 258	239 260	238 263	236 265	233 266
16	89	89	90	90	90	88
	27.4 463	27.9 459	28.4 455	28.9 452	29.4 448	30.2 438
	240 254	238 256	237 259	236 261	235 264	232 264
18	89	89	89	90	90	88
	27.3 463	27.8 459	28.3 455	28.7 452	29.3 448	30.0 438
	238 253	237 255	236 257	235 260	234 262	230 263
20	89	89	89	89	90	88
	27.1 463	27.6 459	28.1 455	28.6 452	29.1 449	29.8 438
	237 251	236 253	234 256	233 258	232 261	229 261
22	89	89	89	89	89	87
	26.9 463	27.4 459	27.9 455	28.3 452	28.8 448	29.5 438
	235 249	234 251	232 254	231 256	230 258	226 258
23	89	89	89	89	89	87
	26.8 463	27.3 459	27.7 455	28.2 451	28.7 448	29.4 437
	234 248	233 250	231 252	230 255	229 257	225 257

15-A-156535-C-0117B-00004-A-01-1IÉð

Figure 5-1 (Sheet 4 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 120 SAT -19 °C	FL 130 SAT -21°C	FL 140 SAT -23 °C	FL 150 SAT -25 °C	FL 160 SAT -27 °C	FL 170 SAT -29 °C
12	86 31.4 427 232 268	84 32.2 417 229 269	82 33.1 407 226 269	81 33.9 397 222 270	78 34.9 385 219 269	76 36.0 373 215 269
14	86 31.2 427 230 266	84 32.0 417 227 267	82 32.8 407 224 267	80 33.7 397 221 268	78 34.7 385 217 267	76 35.8 373 213 267
16	86 31.0 427 229 265	84 31.8 417 226 265	82 32.6 407 222 265	80 33.5 396 219 266	78 34.5 384 215 265	75 35.5 372 211 264
18	86 30.8 427 227 263	84 31.6 417 224 263	82 32.4 406 221 263	80 33.3 396 217 263	78 34.2 384 213 263	75 35.2 372 209 262
20	86 30.5 427 225 261	84 31.3 417 222 261	82 32.1 406 218 261	80 32.9 395 215 260	77 33.8 383 210 259	75 34.7 371 206 258
22	86 30.2 427 223 258	84 31.0 416 219 258	82 31.7 405 215 257	80 32.5 394 212 257	77 33.3 382 207 255	75 34.2 370 202 253
23	85 30.1 426 221 256	83 30.8 416 218 256	81 31.5 405 214 255	79 32.3 394 210 254	77 33.0 382 205 252	74 33.8 369 199 250

WEIGHT (1000 kg)	FL 180 SAT -31 °C	FL 190 SAT -34 °C	FL 200 SAT -35 °C	FL 210 SAT -37 °C	FL 220 SAT -39 °C	FL 230 SAT -41 °C
12	73 37.1 361 211 268	71 38.3 349 207 267	68 39.5 337 203 267	66 40.8 326 199 266	64 42.1 315 196 265	62 43.4 305 192 265
14	73 36.9 361 209 266	71 38.0 349 205 265	68 39.2 337 201 264	66 40.4 326 197 263	64 41.7 315 194 262	61 43.0 304 189 261
16	73 36.6 360 207 264	70 37.7 348 203 262	68 38.8 336 199 261	66 40.0 325 195 260	63 41.2 314 191 259	61 42.4 303 186 257
18	73 36.2 360 205 260	70 37.2 347 200 259	68 38.3 335 196 257	65 39.4 324 191 255	63 40.5 313 187 254	61 41.6 302 182 251
20	72 35.7 359 201 256	70 36.6 347 197 254	67 37.6 334 191 252	65 38.5 323 186 249	63 39.4 312 181 246	60 40.3 301 175 242
22	72 35.0 358 197 250	69 35.8 345 191 247	67 36.6 333 185 243	64 37.2 321 179 239	62 37.8 310 172 234	59 38.3 298 165 228
23	72 34.5 357 194 246	69 35.2 344 188 243	66 35.9 332 181 238	64 36.4 320 174 233	61 36.8 308 166 227	

15-A-156535-C-0117B-00005-A-01-1IÉô

Figure 5-1 (Sheet 5 of 16) Máximo Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240 SAT -43 °C	FL 250 SAT -45 °C	FL 260 SAT -46 °C	FL 270 SAT -48 °C	FL 280 SAT -50 °C	FL 290 SAT -52 °C
12	59 44.9 294 188 263	57 46.4 283 184 262	55 47.7 274 180 262	54 49.1 266 177 261	52 50.6 257 173 260	50 52.1 249 170 259
14	59 44.3 293 185 260	57 45.8 282 181 258	55 47.1 274 177 257	53 48.4 265 174 256	52 49.7 256 170 255	50 51.1 248 166 253
16	59 43.7 292 182 255	57 45.0 281 177 253	55 46.1 273 173 251	53 47.2 264 169 249	51 48.3 255 164 246	49 49.4 246 159 243
18	58 42.6 291 177 248	56 43.7 280 171 244	54 44.5 271 166 241	52 45.3 262 160 237	50 46.0 253 154 233	48 46.5 243 147 226
19	58 41.9 290 173 243	56 42.8 279 167 239	54 43.4 270 161 234	52 44.0 261 155 229	50 44.2 251 147 222	
20	58 41.0 289 169 237	55 41.7 277 161 231	53 42.0 268 155 225			
21	57 39.9 288 163 230	55 40.2 276 154 222				
22	57 38.4 286 156 220					

WEIGHT (1000 kg)	FL 300 SAT -54°C
12	48 53.7 240 166 258
13	48 53.2 240 164 255
14	48 52.5 239 161 251
15	48 51.6 238 158 246
16	47 50.3 237 153 239
17	47 48.8 236 147 230

15-A-156535-C-0117B-00006-A-01-1IÉö

Figure 5-1 (Sheet 6 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES ISA

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +15 °C	FL 10 SAT +13 °C	FL 20 SAT +11 °C	FL 30 SAT +9 °C	FL 40 SAT +7 °C	FL 50 SAT +5 °C
12	90	89	89	89	89	89
	24.7 497	25.2 491	25.7 485	26.2 479	26.8 474	27.3 469
	248 245	246 247	245 249	243 251	242 254	241 256
14	90	89	89	89	89	88
	24.5 497	25.0 491	25.6 485	26.1 479	26.6 474	27.2 469
	246 244	245 246	243 248	242 250	241 252	239 255
16	90	89	89	89	88	88
	24.4 497	24.9 491	25.4 485	25.9 479	26.5 474	27.0 468
	245 243	243 244	242 246	240 248	239 251	238 253
18	90	89	89	89	88	88
	24.3 498	24.8 491	25.3 485	25.8 479	26.3 473	26.9 468
	244 241	242 243	241 245	239 247	238 249	237 252
20	90	89	89	88	88	88
	24.1 498	24.6 491	25.1 485	25.6 479	26.2 473	26.7 468
	243 240	241 242	239 244	238 246	236 248	235 250
22	90	89	89	88	88	88
	24.0 498	24.5 491	25.0 485	25.5 479	26.0 473	26.5 467
	241 239	239 240	238 242	236 244	234 246	233 248
23	90	89	89	88	88	88
	23.9 498	24.4 491	24.9 485	25.4 479	25.9 473	26.4 467
	240 238	238 239	237 241	235 243	233 245	232 247

WEIGHT (1000 kg)	FL 60 SAT +3 °C	FL 70 SAT +1 °C	FL 80 SAT -1 °C	FL 90 SAT -3 °C	FL 100 SAT -5 °C	FL 110 SAT -7 °C
12	87	86	84	83	81	80
	28.0 459	28.7 450	29.4 440	30.2 430	31.0 420	31.8 411
	238 257	236 258	233 259	230 260	228 261	225 261
14	87	86	84	83	81	80
	27.8 459	28.5 449	29.3 440	30.0 430	30.8 420	31.6 411
	237 255	234 256	231 257	229 258	226 259	223 260
16	87	85	84	83	81	80
	27.7 459	28.4 449	29.1 439	29.8 430	30.6 420	31.4 410
	235 254	233 255	230 256	227 256	225 257	222 258
18	87	85	84	82	81	79
	27.5 458	28.2 449	28.9 439	29.7 429	30.4 419	31.2 410
	234 252	231 253	228 254	226 255	223 255	220 256
20	87	85	84	82	81	79
	27.4 458	28.0 448	28.7 439	29.4 429	30.2 419	30.9 410
	232 251	229 251	227 252	224 252	221 253	218 253
22	86	85	84	82	81	79
	27.1 458	27.8 448	28.5 438	29.1 428	29.9 418	30.6 409
	230 248	227 249	224 249	221 250	218 250	215 250
23	86	85	83	82	80	79
	27.0 457	27.6 448	28.3 438	29.0 428	29.7 418	30.3 409
	229 247	226 247	223 248	220 248	216 248	213 248

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Figure 5-1 (Sheet 7 of 16) Máximo Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 120 SAT -9 °C	FL 130 SAT -11 °C	FL 140 SAT -13 °C	FL 150 SAT -15 °C	FL 160 SAT -17 °C	FL 170 SAT -19 °C
12	78 32.6 402 222 262	77 33.5 392 219 263	75 34.4 383 216 264	74 35.4 373 214 264	72 36.4 363 210 264	70 37.5 352 207 264
14	78 32.4 401 220 260	77 33.3 392 218 261	75 34.2 382 215 262	74 35.1 373 212 262	71 36.2 362 208 262	69 37.2 351 205 262
16	78 32.2 401 219 259	77 33.1 392 216 259	75 34.0 382 213 260	73 34.9 373 210 260	71 35.9 362 207 260	69 36.9 351 203 259
18	78 32.0 401 217 256	76 32.8 391 214 257	75 33.7 382 211 257	73 34.5 372 208 257	71 35.5 361 204 256	69 36.5 350 200 256
20	78 31.7 400 215 253	76 32.5 391 211 254	75 33.3 381 208 254	73 34.1 372 205 254	71 35.0 361 201 252	69 35.9 350 196 251
22	77 31.3 399 211 250	76 32.0 390 208 250	74 32.7 380 204 249	73 33.5 371 201 248	70 34.3 360 196 247	68 35.0 348 191 244
23	77 31.0 399 209 247	76 31.7 389 206 247	74 32.4 380 202 246	72 33.1 370 198 245	70 33.8 359 193 243	68 34.4 348 187 239
WEIGHT (1000 kg)	FL 180 SAT -21 °C	FL 190 SAT -23 °C	FL 200 SAT -25 °C	FL 210 SAT -27 °C	FL 220 SAT -29 °C	FL 230 SAT -31 °C
12	67 38.6 341 203 263	65 39.8 330 199 263	63 41.1 319 196 263	61 42.4 309 192 262	59 43.7 299 189 261	57 45.1 289 185 261
14	67 38.4 341 201 261	65 39.5 330 198 261	63 40.8 319 194 260	61 42.0 309 190 259	59 43.3 298 186 258	57 44.6 288 182 257
16	67 38.0 340 199 258	65 39.1 329 195 257	63 40.3 318 191 256	61 41.4 308 187 255	59 42.6 298 183 254	57 43.8 287 179 252
18	67 37.5 339 196 254	65 38.5 328 192 253	63 39.6 317 187 251	61 40.6 307 183 249	58 41.6 297 178 247	56 42.6 286 173 244
20	67 36.8 339 192 249	64 37.7 327 187 247	62 38.6 316 182 244	60 39.3 305 176 240	58 40.1 295 170 236	56 40.8 284 164 232
21	66 36.3 338 189 245	64 37.1 327 183 242	62 37.9 315 178 239	60 38.5 304 172 235	57 39.1 294 165 230	55 39.5 283 158 223
22	66 35.7 337 185 241	64 36.4 326 179 237	61 37.0 314 173 233	59 37.5 303 166 228	57 37.8 292 159 221	
23	66 35.1 336 181 236	63 35.6 325 175 231	61 36.1 313 168 226	59 36.2 302 160 219		

15-A-156535-C-0117B-00008-A-01-1IÉo

Figure 5-1 (Sheet 8 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240		FL 250		FL 260		FL 270		FL 280		FL 290	
	SAT	-33 °C	SAT	-35 °C	SAT	-36 °C	SAT	-38 °C	SAT	-40 °C	SAT	-42 °C
12	55		53		52		50		48		46	
	46.6	279	48.2	268	49.6	260	51.1	251	52.7	243	54.3	234
	181	260	177	259	174	258	170	257	167	256	163	255
14	55		53		51		50		48		46	
	46.0	278	47.5	268	48.8	259	50.1	251	51.5	242	52.9	233
	178	256	174	254	170	253	166	251	162	249	158	247
16	55		53		51		49		47		45	
	45.1	277	46.3	267	47.4	258	48.4	249	49.4	240	50.3	231
	174	250	169	247	165	244	160	241	154	238	148	233
17	54		52		51		49		47		45	
	44.4	276	45.5	266	46.4	257	47.2	248	47.9	239	48.4	230
	171	246	165	242	160	238	155	234	148	229	141	222
18	54		52		50		48		46			
	43.6	275	44.5	265	45.2	256	45.7	247	45.9	237		
	167	240	161	235	155	231	148	225	141	218		
19	54		52		50							
	42.5	274	43.2	263	43.5	254						
	162	233	155	228	148	221						
20	53		51									
	41.3	273	41.5	262								
	156	225	148	217								

WEIGHT (1000 kg)	FL 300		
	SAT	-44 °C	
12	45		
	56.0	226	
	159	253	
13	45		
	55.3	225	
	156	249	
14	44		
	54.2	224	
	153	243	
15	44		
	52.8	223	
	148	236	
16	43		
	51.0	222	
	142	227	

15-A-156535-C-0117B-00009-A-01-1Éô

Figure 5-1 (Sheet 9 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +25 °C	FL 10 SAT +23 °C	FL 20 SAT +21 °C	FL 30 SAT +19 °C	FL 40 SAT +17 °C	FL 50 SAT +15 °C
12	89	87	85	82	80	78
	24.7 500	25.4 487	26.1 473	26.9 460	27.7 446	28.5 433
	245 247	242 247	239 247	235 247	232 247	228 247
14	89	87	84	82	80	78
	24.6 500	25.2 487	26.0 473	26.7 460	27.5 446	28.3 433
	244 246	241 246	237 246	234 246	230 246	227 245
16	89	87	84	82	80	78
	24.4 500	25.1 487	25.8 473	26.6 460	27.4 446	28.2 432
	243 244	239 244	236 244	232 244	229 244	225 244
18	89	86	84	82	80	78
	24.3 500	25.0 487	25.7 473	26.4 459	27.2 446	28.0 432
	241 243	238 243	234 243	231 243	227 242	224 242
20	89	86	84	82	80	78
	24.2 500	24.8 486	25.5 473	26.2 459	27.0 445	27.8 432
	240 242	236 242	233 241	229 241	225 241	222 240
22	89	86	84	82	80	77
	24.0 500	24.7 486	25.3 472	26.0 459	26.8 445	27.5 431
	238 240	235 240	231 239	227 239	223 238	219 237
23	88	86	84	82	79	77
	23.9 500	24.6 486	25.2 472	25.9 458	26.6 445	27.3 431
	237 239	234 239	230 238	226 238	222 237	218 236

WEIGHT (1000 kg)	FL 60 SAT +13 °C	FL 70 SAT +11 °C	FL 80 SAT +9 °C	FL 90 SAT +7°C	FL 100 SAT +5 °C	FL 110 SAT +3 °C
12	77	75	74	72	71	69
	29.3 423	30.0 413	30.9 403	31.7 393	32.6 383	33.5 374
	225 248	223 248	220 249	217 250	214 250	212 251
14	76	75	74	72	71	69
	29.1 423	29.9 413	30.7 403	31.5 393	32.4 383	33.3 374
	224 246	221 247	218 247	216 248	213 248	210 249
16	76	75	73	72	71	69
	28.9 422	29.7 413	30.5 403	31.3 393	32.2 383	33.0 374
	222 244	220 245	217 246	214 246	211 246	208 247
18	76	75	73	72	70	69
	28.7 422	29.5 412	30.2 402	31.1 392	31.9 382	32.7 373
	221 243	218 243	215 243	212 244	209 244	206 244
20	76	75	73	72	70	69
	28.5 422	29.2 412	29.9 402	30.7 392	31.5 382	32.3 373
	219 240	216 240	212 241	209 241	206 241	203 241
22	76	74	73	71	70	68
	28.2 421	28.9 411	29.5 401	30.3 391	31.0 381	31.7 372
	216 237	213 237	209 237	206 237	202 236	199 236
23	76	74	73	71	70	68
	28.0 421	28.6 411	29.3 401	30.0 391	30.7 381	31.3 371
	214 236	211 235	207 235	204 234	200 234	196 233

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Figure 5-1 (Sheet 10 of 16) Máximo Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA +10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

WEIGHT (1000 kg)	TQ %											
	FL 120		FL 130		FL 140		FL 150					
	SAT +1 °C	SAT -1 °C	SAT -3 °C	SAT -5 °C	SAT -7 °C	SAT -9 °C						
12	68		67		65		64	62	61			
	34.4	365	35.4	356	36.4	347	37.4	338	38.5	330	39.6	321
	209	251	206	252	203	253	201	253	198	254	195	254
13	68		67		65		64	62	61			
	34.3	365	35.3	356	36.3	347	37.3	338	38.3	330	39.4	321
	208	251	205	251	203	252	200	252	197	253	194	253
14	68		66		65		64	62	61			
	34.2	365	35.1	356	36.1	347	37.2	338	38.2	329	39.2	321
	207	250	205	250	202	251	199	251	196	251	193	252
15	68		66		65		64	62	61			
	34.1	365	35.0	356	36.0	347	37.0	338	38.0	329	39.0	321
	207	249	204	249	201	249	198	250	195	250	192	250
16	68		66		65		64	62	61			
	33.9	365	34.8	356	35.8	347	36.8	337	37.7	329	38.7	320
	205	247	203	248	200	248	197	248	194	248	190	248
17	68		66		65		63	62	61			
	33.7	364	34.6	355	35.6	346	36.5	337	37.5	329	38.4	320
	204	246	201	246	198	246	195	246	192	246	189	246
18	68		66		65		63	62	60			
	33.5	364	34.4	355	35.3	346	36.3	337	37.1	328	38.0	320
	203	244	200	244	197	244	193	244	190	244	187	243
19	67		66		65		63	62	60			
	33.3	364	34.2	355	35.0	346	35.9	336	36.7	328	37.6	319
	201	243	198	242	195	242	191	242	188	241	184	240
20	67		66		64		63	61	60			
	33.1	364	33.9	354	34.7	345	35.5	336	36.3	327	37.0	319
	200	240	196	240	193	239	189	239	185	238	181	236
21	67		66		64		63	61	60			
	32.8	363	33.5	354	34.3	345	35.0	335	35.7	327	36.4	318
	198	238	194	237	190	236	186	235	182	233	177	231
22	67		65		64		63	61	59			
	32.4	363	33.1	353	33.8	344	34.5	335	35.0	326	35.6	317
	195	235	191	234	187	232	183	231	178	228	173	226
23	67		65		64		62	61	59			
	31.9	362	32.6	353	33.2	343	33.8	334	34.2	325	34.6	316
	192	231	188	230	183	228	178	225	173	222	167	219

15-A-156535-C-0117B-00011-A-01-1Éô

Figure 5-1 (Sheet 11 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

WEIGHT (1000 kg)	FL 180		FL 190		FL 200		FL 210		FL 220		FL 230	
	SAT	-11 °C	SAT	-13 °C	SAT	-15 °C	SAT	-17 °C	SAT	-19 °C	SAT	-21 °C
12	60	58			57		55		53		51	
	40.7	313	41.9	305	43.1	296	44.5	286	45.9	276	47.4	266
	192	255	189	255	186	255	183	255	179	254	175	253
13	60	58			57		55		53		51	
	40.5	313	41.6	304	42.9	296	44.2	286	45.6	276	47.1	266
	191	253	188	254	185	254	182	253	178	252	174	250
14	59	58			57		55		53		51	
	40.3	313	41.4	304	42.6	296	43.9	286	45.2	276	46.6	266
	190	252	187	252	184	252	180	251	176	249	172	248
15	59	58			56		55		53		51	
	40.0	312	41.1	304	42.3	295	43.5	285	44.8	275	46.1	265
	189	250	186	250	182	250	178	248	174	247	170	244
16	59	58			56		54		52		50	
	39.7	312	40.8	303	41.9	295	43.0	285	44.2	275	45.4	265
	187	248	184	248	180	247	176	245	172	243	167	240
17	59	58			56		54		52		50	
	39.4	312	40.4	303	41.4	294	42.5	284	43.5	274	44.5	264
	185	245	182	245	178	244	173	241	168	238	163	235
18	59	57			56		54		52		50	
	38.9	311	39.9	302	40.8	294	41.7	284	42.6	273	43.4	263
	183	242	179	241	175	240	170	237	164	233	158	228
19	59	57			56		54		52		49	
	38.4	311	39.2	302	40.1	293	40.8	283	41.5	272	42.1	262
	180	239	176	237	171	235	166	231	159	226	152	220
20	58	57			55		53		51			
	37.8	310	38.5	301	39.2	292	39.8	282	40.2	271		
	176	234	172	232	167	229	160	224	153	218		
21	58	57			55		53					
	37.0	309	37.6	300	38.1	291	38.4	280				
	172	229	167	226	161	222	154	216				
22	58	56			54							
	36.1	308	36.5	299	36.7	290						
	167	222	161	218	155	213						
23	57											
	35.0	307										
	161	215										

15-A-156535-C-0117B-00012-A-01-1IÉö

Figure 5-1 (Sheet 12 of 16) Máximo Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA +10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240		FL 250		FL 260		FL 270		FL 280		FL 290	
	SAT -23 °C		SAT -25 °C		SAT -26 °C		SAT -28 °C		SAT -30 °C		SAT -32 °C	
12	49		47		46		45		44		42	
	49.0	256	50.7	246	52.1	240	53.5	233	55.0	226	56.5	219
	172	251	168	250	164	249	161	249	158	248	154	247
13	49		47		46		45		43		42	
	48.6	256	50.2	246	51.5	239	52.8	232	54.2	225	55.6	218
	170	249	166	247	162	246	159	245	155	244	151	242
14	49		47		46		44		43		42	
	48.1	256	49.5	246	50.7	239	51.9	232	53.1	224	54.3	217
	168	246	163	243	159	242	156	240	151	238	147	236
15	49		47		45		44		43		41	
	47.4	255	48.7	245	49.7	238	50.8	231	51.7	223	52.6	216
	165	242	160	239	156	237	151	234	147	231	142	227
16	48		46		45		44		42		41	
	46.5	254	47.6	244	48.5	237	49.3	230	49.9	222	50.4	215
	161	237	156	233	151	230	146	226	141	222	134	216
17	48		46		45		43					
	45.5	254	46.3	243	46.9	236	47.3	228				
	157	231	151	225	145	221	139	216				
18	48		46									
	44.1	253	44.6	242								
	152	223	144	216								
19	47											
	42.4	251										
	145	213										

WEIGHT (1000 kg)	FL 300		
	SAT -34°C		
12	41		
	58.1	212	
	151	246	
13	41		
	56.9	211	
	147	240	
14	40		
	55.4	210	
	142	232	
15	40		
	53.3	209	
	136	222	

15-A-156535-C-0117B-00013-A-01-1Éô

Figure 5-1 (Sheet 13 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES
ISA +20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +35 °C	FL 10 SAT +33 °C	FL 20 SAT +31 °C	FL 30 SAT +29 °C	FL 40 SAT +27 °C	FL 50 SAT +25 °C
12	80	77	75	73	71	69
	25.6 469	26.3 455	27.1 442	27.9 429	28.8 416	29.7 403
	234 240	231 240	227 240	224 239	220 239	217 239
14	79	77	75	73	71	69
	25.5 468	26.2 455	26.9 442	27.7 429	28.6 415	29.5 402
	233 238	229 238	226 238	222 238	219 237	215 237
16	79	77	75	73	71	69
	25.3 468	26.0 455	26.8 442	27.6 428	28.4 415	29.3 402
	231 237	228 237	224 237	221 236	217 236	214 235
18	79	77	75	73	71	69
	25.2 468	25.9 454	26.6 441	27.4 428	28.2 415	29.0 402
	230 235	226 235	223 235	219 234	215 234	212 233
20	79	77	75	73	71	69
	25.0 467	25.7 454	26.4 441	27.1 428	27.9 414	28.7 401
	228 234	225 233	221 233	217 232	213 231	209 230
22	79	77	75	73	70	68
	24.8 467	25.5 454	26.1 440	26.8 427	27.6 414	28.3 400
	226 232	222 231	218 230	214 229	210 228	206 227
23	79	77	75	72	70	68
	24.7 466	25.3 453	26.0 440	26.6 427	27.3 413	28.1 400
	225 230	221 229	217 229	213 227	208 226	204 224

WEIGHT (1000 kg)	FL 60 SAT +23 °C	FL 70 SAT +21 °C	FL 80 SAT +19 °C	FL 90 SAT +17°C	FL 100 SAT +15 °C	FL 110 SAT +13 °C
12	68	66	65	64	62	61
	30.4 393	31.3 383	32.1 374	33.0 364	34.0 354	34.9 346
	214 239	211 240	208 240	206 241	203 241	200 242
14	68	66	65	64	62	61
	30.3 393	31.1 383	31.9 373	32.8 364	33.8 354	34.7 345
	212 238	210 238	207 238	204 239	201 239	198 240
16	68	66	65	63	62	61
	30.0 392	30.8 383	31.7 373	32.6 363	33.5 354	34.3 345
	211 236	208 236	205 236	202 236	199 237	196 237
18	67	66	65	63	62	61
	29.8 392	30.5 382	31.4 372	32.2 363	33.0 353	33.9 344
	209 233	206 234	203 234	199 233	196 233	193 233
20	67	66	64	63	62	60
	29.4 391	30.2 382	30.9 372	31.7 362	32.5 352	33.2 344
	206 230	203 230	199 230	196 229	192 229	189 228
22	67	65	64	63	61	60
	29.0 391	29.6 381	30.3 371	30.9 361	31.6 351	32.2 342
	202 226	199 226	195 225	191 223	187 222	183 221
23	67	65	64	62	61	60
	28.7 390	29.3 380	29.9 370	30.5 360	31.0 351	31.6 342
	200 224	196 223	192 221	187 220	183 218	178 216

15-A-156535-C-0117B-00014-A-01-1E6

Figure 5-1 (Sheet 14 of 16) Máximo Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES ISA +20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120 SAT +11 °C	FL 130 SAT +9°C	FL 140 SAT +7 °C	FL 150 SAT +5 °C	FL 160 SAT +3 °C	FL 170 SAT +1 °C
12	60 35.9 337 198 242	59 36.9 329 195 243	57 38.0 320 192 243	56 39.1 312 190 244	55 40.3 303 187 244	53 41.5 294 184 244
14	60 35.6 337 196 240	59 36.6 328 193 241	57 37.7 320 190 241	56 38.7 311 187 241	55 39.8 302 184 241	53 41.0 294 181 240
16	60 35.2 336 193 237	58 36.2 328 190 237	57 37.2 319 188 237	56 38.2 311 184 237	54 39.2 302 181 237	53 40.2 293 177 236
18	59 34.7 336 190 233	58 35.6 327 187 233	57 36.5 319 184 232	56 37.4 310 180 232	54 38.3 301 176 230	52 39.1 292 172 228
20	59 34.0 335 185 228	58 34.7 326 182 226	56 35.4 318 178 225	55 36.2 309 173 223	53 36.8 300 168 220	52 37.4 290 163 217
21	59 33.4 334 182 223	57 34.1 326 178 222	56 34.7 317 174 220	55 35.3 308 169 218	53 35.8 299 163 214	52 36.2 289 157 210
22	59 32.8 334 178 219	57 33.3 325 174 217	56 33.9 316 169 214	55 34.4 307 164 211	53 34.6 298 157 206	
23	58 32.0 333 174 213	57 32.5 324 169 211	56 32.8 315 163 207			

WEIGHT (1000 kg)	FL 180 SAT -1 °C	FL 190 SAT -3 °C	FL 200 SAT -5 °C	FL 210 SAT -7 °C	FL 220 SAT -9 °C	FL 230 SAT -11 °C
12	52 42.7 285 180 244	50 44.0 276 177 243	49 45.4 267 174 243	48 46.7 261 171 243	47 47.9 254 168 243	45 49.3 247 166 243
14	52 42.1 285 178 240	50 43.4 276 174 239	48 44.6 267 170 238	47 45.8 260 167 238	46 46.9 253 164 237	45 48.1 246 161 237
16	51 41.3 284 173 234	50 42.4 275 170 233	48 43.4 266 165 231	47 44.3 259 161 230	46 45.3 252 158 228	45 46.1 245 153 226
18	51 39.9 283 167 226	49 40.7 274 162 223	48 41.5 264 157 219	46 42.1 257 152 216	45 42.6 250 147 213	44 43.0 243 141 209
19	51 39.0 282 162 220	49 39.6 273 157 216	47 40.1 263 151 211	46 40.5 256 145 207		
20	50 37.9 281 157 213	49 38.2 272 151 208				

15-A-156535-C-0117B-00015-A-01-1Éô

Figure 5-1 (Sheet 15 of 16) Máximo Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ1)
2 ENGINES **ISA +20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

WEIGHT (1000 kg)	FL 240		FL 250		FL 260		FL 270		FL 280		FL 290	
	SAT -13 °C	IAS	SAT -15 °C	IAS	SAT -16 °C	IAS	SAT -18 °C	IAS	SAT -20 °C	IAS	SAT -22 °C	IAS
12	44		43		42		40		39		38	
	50.7	240	52.1	233	53.6	225	55.2	218	56.8	210	58.4	202
	163	243	160	243	156	242	152	240	148	238	144	236
13	44		43		42		40		39		37	
	50.1	240	51.4	233	52.8	225	54.2	217	55.5	209	56.8	201
	160	240	157	239	153	237	149	235	144	232	140	229
14	44		43		41		40		38		37	
	49.3	239	50.5	232	51.7	224	52.8	216	53.8	208	54.8	200
	158	236	154	234	149	232	145	229	139	224	134	219
15	44		43		41		40		38			
	48.3	238	49.3	231	50.2	223	51.0	215	51.7	207		
	154	230	150	228	144	224	139	220	133	214		
16	43		42		41		39					
	47.0	238	47.7	230	48.4	222	48.6	214				
	149	223	144	220	138	215	131	208				
17	43		42									
	45.3	237	45.8	229								
	143	215	137	210								

WEIGHT (1000 kg)	FL 300	
	SAT -24°C	IAS
12	36	
	59.9	194
	139	232
13	36	
	58.0	193
	134	224
14	35	
	55.5	192
	127	213

15-A-156535-C-0117B-00016-A-01-1IÉö

Figure 5-1 (Sheet 16 of 16) MÁximum Cruise Power (CRZ1). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA -20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT -5 °C	FL 10 SAT -7 °C	FL 20 SAT -9 °C	FL 30 SAT -11 °C	FL 40 SAT -13 °C	FL 50 SAT -15 °C
12	101	101	101	101	101	101
	24.7 487	25.1 483	25.6 478	26.1 474	26.6 470	27.0 465
	252 240	251 243	249 245	248 247	247 249	246 252
14	101	101	101	101	101	101
	24.6 487	25.0 483	25.5 478	25.9 474	26.4 470	26.9 466
	250 239	249 241	248 244	247 246	246 248	244 250
16	101	101	101	101	101	101
	24.4 487	24.8 483	25.3 479	25.8 474	26.2 470	26.7 466
	249 238	248 240	247 242	245 244	244 247	243 249
18	101	101	101	101	101	101
	24.3 487	24.7 483	25.1 479	25.6 475	26.1 470	26.6 466
	248 237	246 239	245 241	244 243	243 245	242 248
20	101	101	101	101	101	101
	24.2 487	24.6 483	25.0 479	25.5 475	25.9 470	26.4 466
	247 236	245 238	244 240	243 242	241 244	240 246
22	101	101	101	101	101	101
	24.0 488	24.4 483	24.8 479	25.3 475	25.7 471	26.2 466
	245 234	244 236	242 238	241 240	240 242	239 244
23	101	101	101	101	101	101
	23.9 488	24.3 483	24.8 479	25.2 475	25.6 471	26.1 467
	244 233	243 235	242 237	240 239	239 241	238 243

WEIGHT (1000 kg)	FL 60 SAT -17 °C	FL 70 SAT -19 °C	FL 80 SAT -21 °C	FL 90 SAT -23 °C	FL 100 SAT -25 °C	FL 110 SAT -27 °C
12	101	101	101	101	101	99
	27.5 462	27.9 459	28.3 457	28.8 454	29.2 450	29.8 444
	244 254	243 256	242 259	240 261	239 263	237 264
14	101	101	101	101	101	99
	27.3 463	27.7 460	28.1 457	28.6 454	29.0 451	29.6 444
	243 253	242 255	240 257	239 259	238 262	235 263
16	101	101	101	101	101	99
	27.1 463	27.5 460	28.0 457	28.4 454	28.8 451	29.4 445
	242 251	240 253	239 256	238 258	236 260	234 261
18	101	101	101	101	101	99
	27.0 463	27.4 460	27.8 457	28.2 454	28.7 451	29.2 445
	240 250	239 252	238 254	236 257	235 259	232 260
20	101	101	101	101	101	99
	26.8 463	27.2 460	27.6 457	28.1 454	28.5 451	29.0 445
	239 248	238 251	236 253	235 255	234 257	231 258
22	101	101	101	101	101	99
	26.6 463	27.0 461	27.4 458	27.8 455	28.2 452	28.7 445
	237 247	236 249	234 251	233 253	232 255	229 256
23	101	101	101	101	101	99
	26.5 464	26.9 461	27.3 458	27.7 455	28.1 452	28.6 445
	236 246	235 248	233 250	232 252	231 254	228 254

15-A-156535-C-0117B-00017-A-01-1IÉô

Figure 5-2 (Sheet 1 of 15) Máximo Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES ISA -20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120 SAT -29 °C	FL 130 SAT -31°C	FL 140 SAT -33 °C	FL 150 SAT -35 °C	FL 160 SAT -37 °C	FL 170 SAT -39 °C
12	98	97	96	95	91	88
	30.3 438	30.8 433	31.4 427	32.0 422	32.9 408	34.0 394
	234 266	232 267	230 268	227 270	223 269	219 268
14	98	97	96	94	91	88
	30.1 438	30.7 432	31.2 427	31.8 421	32.7 408	33.8 394
	233 264	230 265	228 266	226 268	221 267	217 266
16	98	97	95	94	91	88
	29.9 438	30.5 432	31.0 427	31.6 421	32.5 407	33.5 393
	231 262	229 263	226 265	224 266	220 265	216 264
18	98	97	95	94	91	88
	29.7 438	30.3 432	30.8 426	31.4 420	32.3 407	33.3 393
	230 261	227 262	225 263	222 264	218 263	213 261
20	98	97	95	94	91	87
	29.5 438	30.0 432	30.6 426	31.1 420	32.0 406	32.9 392
	228 259	225 259	223 260	220 261	215 260	211 258
22	98	96	95	93	90	87
	29.2 438	29.7 432	30.2 425	30.8 419	31.6 405	32.4 391
	226 256	223 257	220 257	217 258	212 256	207 254
23	98	96	95	93	90	87
	29.1 438	29.6 432	30.0 425	30.5 418	31.3 405	32.1 391
	225 255	222 255	218 255	215 256	210 253	205 251

WEIGHT (1000 kg)	FL 180 SAT -41 °C	FL 190 SAT -43 °C	FL 200 SAT -45 °C	FL 210 SAT -47 °C	FL 220 SAT -49 °C	FL 230 SAT -51 °C
12	85	82	79	76	74	71
	35.1 381	36.2 367	37.5 353	38.6 342	39.8 332	41.0 321
	215 267	210 266	206 265	203 264	199 264	195 263
14	85	82	78	76	73	71
	34.9 380	36.0 366	37.2 353	38.3 342	39.4 331	40.6 320
	213 265	209 264	204 262	201 262	197 261	193 260
16	85	81	78	76	73	71
	34.6 380	35.7 366	36.9 352	37.9 341	39.0 330	40.1 319
	211 263	207 261	202 260	198 259	194 258	190 256
18	84	81	78	75	73	70
	34.3 379	35.3 365	36.4 351	37.4 340	38.4 329	39.4 318
	209 260	204 258	199 256	195 255	191 253	186 251
20	84	81	78	75	72	70
	33.9 378	34.8 364	35.8 350	36.7 339	37.6 328	38.4 317
	206 256	201 254	195 251	191 249	186 247	180 243
22	84	80	77	74	72	69
	33.3 377	34.2 363	35.0 349	35.6 338	36.3 326	36.8 314
	202 251	196 248	190 244	184 241	178 237	171 232
23	83	80	77	74	71	68
	32.9 376	33.7 362	34.4 348	35.0 336	35.5 325	35.8 313
	199 248	193 244	186 239	180 235	173 230	165 224

15-A-156535-C-0117B-00018-A-01-1IÉδ

Figure 5-2 (Sheet 2 of 15) Máximo Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA -20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 240		FL 250	
	SAT -53 °C		SAT -55 °C	
12	69 42.3 191	310 262	66 43.7 188	299 261
14	68 41.9 189	309 259	66 43.2 185	299 258
16	68 41.3 186	309 255	66 42.5 181	298 253
18	68 40.5 181	307 249	65 41.5 176	296 246
20	67 39.2 174	306 239	64 39.9 168	294 234
22	66 37.3 164	303 225		

15-A-156535-C-0117B-00019-A-01-1IÉô

Figure 5-2 (Sheet 3 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES
ISA -10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +5 °C	FL 10 SAT +3 °C	FL 20 SAT +1 °C	FL 30 SAT -1 °C	FL 40 SAT -3 °C	FL 50 SAT -5 °C
12	101	101	101	101	101	101
	24.6 494	25.1 489	25.5 485	26.0 481	26.5 477	26.9 472
	250 243	249 245	247 248	246 250	245 252	244 255
14	101	101	101	101	101	101
	24.5 494	24.9 490	25.4 485	25.8 481	26.3 477	26.8 473
	248 242	247 244	246 246	245 248	244 251	242 253
16	101	101	101	101	101	101
	24.3 494	24.7 490	25.2 486	25.7 481	26.1 477	26.6 473
	247 240	246 242	245 245	243 247	242 249	241 252
18	101	101	101	101	101	101
	24.2 494	24.6 490	25.1 486	25.5 481	26.0 477	26.5 473
	246 239	244 241	243 243	242 246	241 248	240 250
20	101	101	101	101	101	101
	24.1 494	24.5 490	24.9 486	25.4 482	25.8 477	26.3 473
	244 238	243 240	242 242	241 244	240 247	238 249
22	101	101	101	101	101	101
	23.9 495	24.3 490	24.7 486	25.2 482	25.6 478	26.1 473
	243 236	242 238	240 241	239 243	238 245	237 247
23	101	101	101	101	101	101
	23.8 495	24.2 491	24.6 486	25.1 482	25.5 478	26.0 473
	242 236	241 238	239 240	238 242	237 244	236 246

WEIGHT (1000 kg)	FL 60 SAT -7 °C	FL 70 SAT -9 °C	FL 80 SAT -11 °C	FL 90 SAT -13 °C	FL 100 SAT -15 °C	FL 110 SAT -17 °C
12	100	100	100	100	99	97
	27.4 468	27.9 463	28.4 459	28.8 455	29.3 452	30.1 441
	242 256	240 258	239 261	237 263	236 265	233 265
14	100	100	100	99	99	97
	27.3 468	27.7 463	28.2 459	28.7 455	29.1 452	29.9 441
	241 255	239 257	237 259	236 261	234 263	231 263
16	100	100	100	99	99	97
	27.1 468	27.6 463	28.0 459	28.5 455	29.0 451	29.7 440
	239 253	238 255	236 257	234 259	233 262	230 262
18	100	100	99	99	99	97
	26.9 468	27.4 463	27.9 459	28.4 455	28.8 451	29.6 440
	238 252	236 254	235 256	233 258	231 260	228 260
20	100	100	99	99	99	96
	26.8 468	27.2 463	27.7 459	28.2 454	28.6 450	29.3 439
	237 251	235 252	233 254	231 256	230 258	226 258
22	100	100	99	99	99	96
	26.6 468	27.0 463	27.5 459	27.9 454	28.4 450	29.1 439
	235 249	233 250	231 252	229 254	227 256	224 255
23	100	100	99	99	98	96
	26.4 468	26.9 463	27.3 459	27.8 454	28.3 450	28.9 439
	234 248	232 249	230 251	228 252	226 254	222 254

15-A-156535-C-0117B-00020-A-01-1IÉö

Figure 5-2 (Sheet 4 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES
ISA -10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120 SAT -19 °C	FL 130 SAT -21°C	FL 140 SAT -23 °C	FL 150 SAT -25 °C	FL 160 SAT -27 °C	FL 170 SAT -29 °C
12	95 30.9 430 229 265	92 31.7 419 226 266	90 32.6 408 223 266	88 33.5 397 219 266	85 34.5 385 216 265	82 35.5 373 212 265
14	95 30.7 430 228 264	92 31.5 419 224 264	90 32.4 408 221 264	88 33.3 397 218 264	85 34.2 385 214 263	82 35.3 372 210 263
16	94 30.5 429 226 262	92 31.3 418 223 262	90 32.2 407 220 262	88 33.1 396 216 262	85 34.0 384 212 261	82 35.0 372 208 260
18	94 30.3 429 225 260	92 31.1 418 221 260	90 31.9 407 218 260	87 32.8 396 214 259	85 33.7 384 210 259	82 34.6 371 206 257
20	94 30.1 428 223 258	92 30.8 417 219 257	89 31.6 406 215 257	87 32.4 395 211 256	84 33.3 383 207 255	81 34.2 371 202 253
22	94 29.8 428 220 255	92 30.5 417 216 254	89 31.2 405 212 253	87 32.0 394 208 252	84 32.8 382 203 250	81 33.5 369 198 248
23	94 29.6 427 218 253	91 30.3 416 214 252	89 31.0 405 210 251	87 31.7 394 206 249	84 32.4 381 200 247	81 33.1 369 195 244

WEIGHT (1000 kg)	FL 180 SAT -31 °C	FL 190 SAT -34 °C	FL 200 SAT -35 °C	FL 210 SAT -37 °C	FL 220 SAT -39 °C	FL 230 SAT -41 °C
12	80 36.6 361 208 264	77 37.8 349 204 263	74 39.0 337 200 262	72 40.2 326 196 262	69 41.5 315 192 261	67 42.8 304 189 260
14	79 36.4 360 206 262	77 37.5 348 202 261	74 38.7 336 198 260	71 39.8 325 194 259	69 41.1 314 190 258	66 42.3 303 186 257
16	79 36.0 360 204 259	76 37.1 348 200 258	74 38.3 335 196 257	71 39.4 325 191 256	69 40.5 314 187 254	66 41.7 303 183 252
18	79 35.6 359 201 256	76 36.7 347 197 254	73 37.7 335 192 252	71 38.7 324 188 250	68 39.7 312 183 248	66 40.7 301 178 246
20	79 35.1 358 198 251	76 36.0 346 193 249	73 36.9 333 187 246	70 37.7 322 182 243	68 38.5 311 176 239	65 39.2 299 170 235
22	78 34.3 357 192 245	75 35.0 344 186 241	72 35.7 331 180 237	69 36.3 320 173 232	67 36.7 308 166 226	64 37.0 296 158 219
23	78 33.7 356 189 240	75 34.4 343 182 236	72 34.9 330 175 231	69 35.3 319 168 225	66 35.5 306 159 217	

15-A-156535-C-0117B-00021-A-01-1Éô

Figure 5-2 (Sheet 5 of 15) Máximo Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

WEIGHT (1000 kg)	FL 240		FL 250		FL 260		FL 270		FL 280		FL 290	
	SAT	-43 °C	SAT	-45 °C	SAT	-46 °C	SAT	-48 °C	SAT	-50 °C	SAT	-52 °C
12	64		62		60		58		56		54	
	44.2	293	45.6	282	47.0	274	48.4	265	49.8	256	51.3	248
	185	259	181	258	177	257	174	256	170	255	166	254
14	64		61		59		57		55		53	
	43.6	293	45.0	282	46.3	273	47.5	264	48.8	256	50.1	247
	182	255	178	254	174	253	170	251	166	249	162	247
16	64		61		59		57		55		53	
	42.9	292	44.1	280	45.2	272	46.2	263	47.1	254	48.1	245
	178	250	173	247	169	245	164	243	159	239	153	235
18	63		60		58		56		54		52	
	41.7	290	42.6	279	43.4	270	44.0	260	44.5	251	44.5	241
	172	242	166	238	161	234	155	229	148	223	140	215
20	62		59		57							
	39.9	288	40.4	276	40.4	266						
	163	230	155	223	147	215						

WEIGHT (1000 kg)	FL 300	
	SAT	-54°C
12	52	
	52.8	239
14	51	
	51.4	238
16	51	
	48.9	236
	147	230

15-A-156535-C-0117B-00022-A-01-1IÉö

Figure 5-2 (Sheet 6 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +15 °C	FL 10 SAT +13 °C	FL 20 SAT +11 °C	FL 30 SAT +9 °C	FL 40 SAT +7 °C	FL 50 SAT +5 °C
12	101	100	100	99	99	99
	24.5 501	25.0 494	25.5 489	26.0 483	26.5 478	27.0 472
	248 245	246 247	245 249	243 251	242 253	240 255
14	101	100	100	99	99	99
	24.4 501	24.9 495	25.4 489	25.9 483	26.4 477	26.9 472
	246 244	245 246	243 248	242 250	240 252	239 254
16	101	100	100	99	99	99
	24.2 501	24.7 495	25.2 489	25.7 483	26.2 477	26.7 472
	245 243	243 244	242 246	240 248	239 250	237 252
18	101	100	100	99	99	99
	24.1 501	24.6 495	25.1 489	25.6 483	26.1 477	26.6 472
	244 241	242 243	240 245	239 247	237 249	236 251
20	101	100	100	99	99	98
	23.9 501	24.4 495	24.9 489	25.4 483	25.9 477	26.4 471
	242 240	241 242	239 243	237 245	236 247	234 249
22	101	100	100	99	99	98
	23.8 502	24.2 495	24.7 489	25.2 482	25.7 476	26.2 471
	241 239	239 240	237 242	236 243	234 245	232 247
23	101	100	100	99	99	98
	23.7 502	24.1 495	24.6 489	25.1 482	25.6 476	26.1 471
	240 238	238 239	236 241	234 242	233 244	231 246

WEIGHT (1000 kg)	FL 60 SAT +3 °C	FL 70 SAT +1 °C	FL 80 SAT -1 °C	FL 90 SAT -3 °C	FL 100 SAT -5 °C	FL 110 SAT -7 °C
12	97	96	94	92	90	88
	27.7 463	28.4 453	29.1 443	29.8 433	30.6 423	31.4 414
	237 256	235 257	232 258	229 258	226 259	223 260
14	97	95	94	92	90	88
	27.5 462	28.2 453	28.9 443	29.6 433	30.4 423	31.2 413
	236 255	233 255	230 256	227 257	225 257	222 258
16	97	95	94	92	90	88
	27.4 462	28.0 452	28.7 442	29.5 433	30.2 423	31.0 413
	234 253	232 254	229 254	226 255	223 256	220 256
18	97	95	93	92	90	88
	27.2 462	27.9 452	28.6 442	29.3 432	30.0 422	30.8 413
	233 251	230 252	227 253	224 253	221 254	218 254
20	97	95	93	91	90	88
	27.1 461	27.7 451	28.4 442	29.1 432	29.8 422	30.5 412
	231 250	228 250	225 251	222 251	219 251	216 251
22	96	95	93	91	89	88
	26.8 461	27.5 451	28.1 441	28.8 431	29.4 421	30.1 411
	229 247	226 248	223 248	220 248	216 248	213 248
23	96	95	93	91	89	87
	26.7 461	27.3 451	27.9 441	28.6 431	29.2 421	29.9 411
	228 246	225 246	221 246	218 246	215 246	211 246

15-A-156535-C-0117B-00023-A-01-1Éô

Figure 5-2 (Sheet 7 of 15) Máximo Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

		TQ %		IAS	NM/100kg	Kg/h/mot	TAS
		FL	120				

WEIGHT (1000 kg)	FL 120 SAT -9 °C	FL 130 SAT -11°C	FL 140 SAT -13 °C	FL 150 SAT -15 °C	FL 160 SAT -17 °C	FL 170 SAT -19 °C
12	87 32.2 404 220 260	85 33.0 394 217 260	83 33.9 384 214 261	81 34.9 374 211 261	79 35.9 363 208 261	76 37.0 352 204 261
14	86 32.0 403 219 258	85 32.8 394 216 259	83 33.7 384 213 259	81 34.7 374 210 259	78 35.7 363 206 259	76 36.7 352 202 258
16	86 31.8 403 217 256	84 32.6 393 214 257	83 33.5 383 211 257	81 34.4 374 208 257	78 35.4 363 204 256	76 36.4 351 200 256
18	86 31.5 403 215 254	84 32.3 393 212 254	82 33.2 383 209 254	80 34.0 373 205 254	78 35.0 362 201 253	76 35.9 351 197 252
20	86 31.2 402 213 251	84 32.0 392 209 251	82 32.8 382 206 251	80 33.6 372 202 250	78 34.4 361 198 249	75 35.3 350 193 247
22	86 30.8 401 209 247	84 31.5 391 205 247	82 32.2 381 202 246	80 32.9 371 197 245	77 33.6 360 192 242	75 34.3 349 187 239
23	85 30.5 401 207 245	83 31.2 391 203 244	81 31.8 381 199 243	79 32.5 371 194 241	77 33.1 359 189 238	74 33.7 348 183 234

WEIGHT (1000 kg)	FL 180 SAT -21 °C	FL 190 SAT -23 °C	FL 200 SAT -25 °C	FL 210 SAT -27 °C	FL 220 SAT -29 °C	FL 230 SAT -31 °C
12	74 38.1 341 200 260	71 39.3 330 197 260	69 40.6 319 193 259	67 41.8 309 190 258	65 43.2 299 186 258	62 44.6 288 182 257
14	74 37.8 341 199 258	71 39.0 330 195 257	69 40.2 319 191 256	67 41.4 308 187 255	64 42.7 298 183 254	62 44.0 288 179 253
16	73 37.4 340 196 255	71 38.5 329 192 254	69 39.7 318 188 252	66 40.8 308 184 251	64 41.9 297 180 249	62 43.1 287 175 247
18	73 36.9 340 193 251	71 37.9 328 188 249	68 38.9 317 184 247	66 39.9 306 179 244	63 40.8 296 174 241	61 41.7 285 168 238
20	73 36.1 339 188 245	70 36.9 327 183 242	68 37.7 315 177 238	65 38.5 305 171 234	63 39.1 294 165 229	60 39.6 282 158 224
22	72 34.9 337 181 235	69 35.5 325 175 231	67 36.0 313 167 225	64 36.3 302 160 219		
23	72 34.2 336 176 229	69 34.6 324 169 224	66 34.8 312 161 217			

15-A-156535-C-0117B-00024-A-01-1IÉö

Figure 5-2 (Sheet 8 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 240		FL 250		FL 260		FL 270		FL 280		FL 290	
	SAT -33 °C		SAT -35 °C		SAT -36 °C		SAT -38 °C		SAT -40 °C		SAT -42 °C	
12	60		58		56		54		52		50	
	46.0	278	47.6	267	48.9	259	50.4	251	51.8	242	53.4	234
	178	256	174	254	171	254	167	253	163	251	159	250
14	60		57		55		54		52		50	
	45.3	277	46.8	267	48.0	258	49.2	250	50.5	241	51.7	232
	175	251	171	249	167	248	163	246	158	244	153	240
16	59		57		55		53		51		49	
	44.3	276	45.5	265	46.4	257	47.3	248	48.1	239	48.8	230
	170	245	165	241	160	238	155	235	149	230	143	225
18	59		56		54		52					
	42.6	274	43.3	263	43.8	254	44.1	245				
	162	233	156	228	149	223	142	216				
20	58											
	39.9	271										
	150	216										

WEIGHT (1000 kg)	FL 300		
	SAT -44°C		
12	48		
	54.9	225	
	155	248	
14	48		
	52.9	224	
	148	237	
16	47		
	49.3	221	
	136	218	

15-A-156535-C-0117B-00025-A-01-1Éô

Figure 5-2 (Sheet 9 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES
ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

WEIGHT (1000 kg)	TQ %					
	FL SL SAT +25 °C	FL 10 SAT +23 °C	FL 20 SAT +21 °C	FL 30 SAT +19 °C	FL 40 SAT +17 °C	FL 50 SAT +15 °C
12	100	98	95	93	90	88
	24.5 505	25.2 491	25.9 477	26.7 464	27.5 450	28.3 436
	246 248	242 248	239 247	235 247	232 247	228 247
14	100	97	95	92	90	87
	24.4 505	25.1 491	25.8 477	26.5 463	27.3 450	28.1 436
	244 246	241 246	237 246	234 246	230 245	226 245
16	100	97	95	92	90	87
	24.3 504	24.9 491	25.6 477	26.3 463	27.1 449	27.9 436
	243 245	239 244	236 244	232 244	228 244	225 243
18	100	97	95	92	90	87
	24.1 504	24.8 491	25.5 477	26.2 463	26.9 449	27.7 435
	241 243	238 243	234 243	231 243	227 242	223 241
20	100	97	95	92	89	87
	24.0 504	24.6 490	25.3 477	26.0 463	26.7 449	27.5 435
	240 242	236 242	233 241	229 241	225 240	221 239
22	100	97	94	92	89	87
	23.8 504	24.4 490	25.1 476	25.8 462	26.5 448	27.2 434
	238 240	235 240	231 239	227 238	223 237	218 236
23	100	97	94	92	89	87
	23.7 504	24.3 490	25.0 476	25.7 462	26.3 448	27.1 434
	237 239	233 239	229 238	225 237	221 236	217 235
WEIGHT (1000 kg)	FL 60 SAT +13 °C	FL 70 SAT +11 °C	FL 80 SAT +9 °C	FL 90 SAT +7 °C	FL 100 SAT +5 °C	FL 110 SAT +3 °C
	86 29.0 426 225 247	84 29.8 416 222 248	82 30.6 406 219 248	81 31.4 396 217 249	79 32.3 386 214 249	77 33.2 377 211 250
14	86 28.8 426 223 245	84 29.6 416 221 246	82 30.4 406 218 247	81 31.2 396 215 247	79 32.1 386 212 248	77 32.9 377 209 248
	86 28.7 426 222 244	84 29.4 416 219 244	82 30.2 405 216 245	80 31.0 395 213 245	79 31.9 385 210 246	77 32.7 376 207 246
	85 28.4 425 220 242	84 29.2 415 217 242	82 29.9 405 214 243	80 30.7 395 211 243	78 31.5 385 208 243	77 32.3 376 205 243
20	85 28.2 425 218 239	83 28.9 415 215 240	82 29.6 405 212 240	80 30.4 394 208 240	78 31.1 384 205 239	77 31.9 375 202 239
	85 27.9 424 215 236	83 28.5 414 212 236	81 29.2 404 208 236	80 29.9 394 205 235	78 30.6 383 201 235	76 31.3 374 197 234
	85 27.7 424 213 235	83 28.3 414 210 234	81 29.0 403 206 234	80 29.6 393 203 233	78 30.3 383 199 232	76 30.9 374 194 231

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Figure 5-2 (Sheet 10 of 15) Máximo Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA +10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

		TQ %	
		NM/100kg	Kg/h/mot
		IAS	TAS

WEIGHT (1000 kg)	FL 120 SAT +1 °C	FL 130 SAT -1 °C	FL 140 SAT -3 °C	FL 150 SAT -5 °C	FL 160 SAT -7 °C	FL 170 SAT -9 °C
12	76	74	73	71	69	67
	34.0 368	35.0 359	36.0 349	37.0 340	38.0 332	39.1 323
	208 250	205 251	202 251	200 252	197 252	194 252
14	76	74	72	71	69	67
	33.8 367	34.7 358	35.7 349	36.7 340	37.7 331	38.7 323
	207 249	204 249	201 249	198 250	195 250	192 250
16	75	74	72	71	69	67
	33.5 367	34.4 358	35.3 349	36.3 340	37.2 331	38.2 322
	204 246	201 246	198 247	195 247	192 246	189 246
18	75	74	72	70	69	67
	33.2 367	34.0 357	34.9 348	35.8 339	36.6 330	37.5 321
	202 243	199 243	195 243	192 242	188 242	185 241
20	75	73	72	70	68	66
	32.6 366	33.4 357	34.2 347	35.0 338	35.7 329	36.4 320
	198 239	195 238	191 238	187 237	183 235	178 233
22	75	73	71	69	67	66
	31.9 365	32.6 355	33.2 346	33.8 337	34.3 327	34.7 318
	193 233	189 232	185 230	180 228	175 225	169 221
23	74	73	71	69	67	65
	31.5 364	32.0 355	32.6 345	33.0 336	33.4 326	33.7 317
	190 229	186 227	181 225	175 222	170 218	163 214

WEIGHT (1000 kg)	FL 180 SAT -11 °C	FL 190 SAT -13 °C	FL 200 SAT -15 °C	FL 210 SAT -17 °C	FL 220 SAT -19 °C	FL 230 SAT -21 °C
12	66	64	62	60	58	56
	40.2 314	41.3 306	42.6 297	43.9 287	45.3 277	46.8 267
	191 253	188 253	184 253	181 252	177 251	173 250
14	66	64	62	60	58	56
	39.8 314	40.9 305	42.0 296	43.3 286	44.6 276	45.9 266
	188 250	185 249	182 249	178 248	174 246	170 245
16	65	64	62	60	58	55
	39.2 313	40.2 304	41.3 295	42.4 285	43.5 275	44.6 265
	185 246	182 245	178 244	174 242	169 240	164 236
18	65	63	61	59	57	55
	38.4 312	39.2 303	40.1 294	40.9 284	41.7 273	42.3 263
	181 240	177 238	172 236	167 232	161 228	154 223
20	64	63	61	58	56	
	37.1 311	37.7 302	38.2 292	38.6 282	38.9 271	
	174 230	168 227	162 223	156 218	148 211	
22	64	62				
	35.1 309	35.4 299				
	163 217	157 212				

15-A-156535-C-0117B-00027-A-01-1Éô

Figure 5-2 (Sheet 11 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA +10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

IAS	TQ % NM/100kg	Kg/h/mot TAS
-----	------------------	-----------------

WEIGHT (1000 kg)	FL 240	FL 250	FL 260	FL 270	FL 280	FL 290
	SAT -23 °C	SAT -25 °C	SAT -26 °C	SAT -28 °C	SAT -30 °C	SAT -32 °C
12	54 48.3 257 170 248	52 50.0 247 165 247	50 51.3 240 162 246	49 52.7 232 159 245	47 54.2 225 155 244	46 55.6 218 151 242
	54 47.3 256 165 242	51 48.7 246 161 240	50 49.9 239 157 238	48 51.0 231 152 236	47 52.1 224 148 233	45 53.1 216 143 229
	53 45.6 255 158 232	51 46.6 244 152 228	49 47.3 237 147 224	48 47.9 229 141 219	46 48.4 221 135 214	
18	52 42.9 252 147 216					

WEIGHT (1000 kg)	FL 300
	SAT -34°C
12	44 57.1 211 147 241
	44 54.0 208
	138 225
14	

15-A-156535-C-0117B-00028-A-01-1IÉö

Figure 5-2 (Sheet 12 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA +20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +35 °C	FL 10 SAT +33 °C	FL 20 SAT +31 °C	FL 30 SAT +29 °C	FL 40 SAT +27 °C	FL 50 SAT +25 °C
12	90	88	85	83	80	78
	25.5 473	26.2 459	26.9 446	27.7 433	28.6 419	29.4 406
	235 241	231 240	228 240	224 240	221 239	217 239
14	90	87	85	83	80	78
	25.3 472	26.0 459	26.8 446	27.6 432	28.4 419	29.3 405
	233 239	230 239	226 239	223 238	219 238	215 237
16	90	87	85	82	80	78
	25.2 472	25.9 459	26.6 445	27.4 432	28.2 419	29.1 405
	232 238	229 237	225 237	221 237	218 236	214 236
18	90	87	85	82	80	77
	25.0 472	25.7 458	26.5 445	27.2 432	28.0 418	28.8 405
	231 236	227 236	223 235	220 235	216 234	212 233
20	89	87	85	82	80	77
	24.9 471	25.5 458	26.3 445	27.0 431	27.7 418	28.5 404
	229 235	225 234	221 233	218 233	213 232	209 231
22	89	87	84	82	79	77
	24.7 471	25.3 458	26.0 444	26.7 431	27.4 417	28.1 404
	227 232	223 232	219 231	215 230	210 229	206 227
23	89	87	84	82	79	77
	24.6 471	25.2 457	25.8 444	26.5 430	27.2 417	27.9 403
	226 231	222 230	217 229	213 228	209 227	204 225

WEIGHT (1000 kg)	FL 60 SAT +23 °C	FL 70 SAT +21 °C	FL 80 SAT +19 °C	FL 90 SAT +17°C	FL 100 SAT +15 °C	FL 110 SAT +13 °C
12	76	75	73	71	70	68
	30.2 396	31.0 386	31.9 376	32.8 366	33.7 357	34.6 348
	214 239	211 240	208 240	205 240	202 240	200 241
14	76	74	73	71	70	68
	30.0 396	30.8 386	31.7 376	32.5 366	33.5 356	34.3 348
	212 238	210 238	207 238	204 238	201 238	198 239
16	76	74	73	71	69	68
	29.8 395	30.6 385	31.4 376	32.3 366	33.1 356	34.0 347
	211 236	208 236	205 236	202 236	198 236	196 236
18	76	74	73	71	69	68
	29.6 395	30.3 385	31.1 375	31.9 365	32.7 355	33.5 347
	209 233	206 233	202 233	199 233	196 232	192 232
20	76	74	72	71	69	67
	29.2 394	29.9 384	30.6 375	31.4 365	32.1 355	32.8 346
	206 230	203 230	199 229	195 229	192 228	188 227
22	75	74	72	70	68	67
	28.8 394	29.4 384	30.0 374	30.6 364	31.3 353	31.8 345
	202 226	199 226	195 224	190 223	186 221	181 219
23	75	73	72	70	68	67
	28.5 393	29.0 383	29.6 373	30.2 363	30.7 353	31.1 344
	200 224	196 222	191 221	187 219	182 216	177 214

15-A-156535-C-0117B-00029-A-01-1Éô

Figure 5-2 (Sheet 13 of 15) Máximo Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA +20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

WEIGHT (1000 kg)	FL 120 SAT +11 °C		FL 130 SAT +9 °C		FL 140 SAT +7 °C		FL 150 SAT +5 °C		FL 160 SAT +3 °C		FL 170 SAT +1 °C		
	TQ %	NM/100kg	TQ %	NM/100kg	TQ %	NM/100kg	TQ %	NM/100kg	TQ %	NM/100kg	TQ %	NM/100kg	TQ %
12	67 35.6 339 197 241	65 36.6 331 194 242	64 37.6 322 192 242	63 38.7 314 189 243	61 39.8 305 186 243	59 41.0 296 183 243							
14	67 35.3 339 195 239	65 36.2 330 192 239	64 37.2 322 189 240	62 38.3 313 186 240	61 39.4 304 183 240	59 40.5 295 180 239							
16	67 34.9 339 193 236	65 35.8 330 190 236	64 36.7 321 186 236	62 37.7 313 183 236	60 38.7 304 180 235	59 39.7 295 176 234							
18	66 34.3 338 189 232	65 35.2 329 186 232	63 36.0 321 182 231	62 36.9 312 179 230	60 37.7 303 175 228	58 38.5 294 170 226							
20	66 33.6 337 184 226	64 34.2 328 180 225	63 34.9 319 176 223	61 35.6 311 172 221	60 36.2 301 166 218	58 36.7 292 161 214							
22	65 32.4 336 177 217	64 32.9 327 172 215	62 33.3 318 167 212	61 33.7 309 161 208	59 33.8 299 154 202								
23	65 31.6 335 172 211	63 31.9 326 167 208	62 32.2 317 161 204										
WEIGHT (1000 kg)	FL 180 SAT -1 °C		FL 190 SAT -3 °C		FL 200 SAT -5 °C		FL 210 SAT -7 °C		FL 220 SAT -9 °C		FL 230 SAT -11 °C		
	58 42.2 287 179 242	56 43.5 278 176 242	54 44.9 269 173 241	53 46.1 262 170 241	51 47.3 255 167 241	50 48.6 248 164 241							
14	57 41.6 286 176 238	56 42.8 277 173 238	54 44.1 268 169 236	53 45.1 261 166 236	51 46.3 254 163 235	50 47.4 247 159 234							
16	57 40.7 286 172 233	55 41.8 277 168 231	53 42.8 267 164 229	52 43.6 260 160 227	51 44.4 253 155 225	49 45.2 245 151 222							
18	57 39.3 284 165 224	55 40.0 275 160 220	53 40.7 266 154 216	51 41.2 258 149 213	50 41.5 251 144 208								
20	56 37.1 283 155 210	54 37.3 273 148 204											

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Figure 5-2 (Sheet 14 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (CRZ2)
2 ENGINES **ISA +20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **FLAPS:** UP (0°)
PROPELLERS: HS 568F-5 **ENGINE A/I:** OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 240		FL 250		FL 260		FL 270		FL 280		FL 290	
	SAT -13 °C		SAT -15 °C		SAT -16 °C		SAT -18 °C		SAT -20 °C		SAT -22 °C	
12	49		48		46		44		43		41	
	50.0	241	51.4	234	52.8	226	54.3	218	55.9	210	57.3	202
	161	241	158	240	154	239	150	237	146	235	142	232
14	48		47		45		44		42		40	
	48.5	240	49.6	232	50.7	225	51.6	216	52.5	208	53.2	200
	155	233	151	231	147	228	141	224	136	219	130	213
16	48		46		45							
	45.9	238	46.6	231	46.9	222						
	146	219	141	215	134	209						

WEIGHT (1000 kg)	FL 300		
	SAT -24°C		
12	39		
	58.7	194	
	137	228	
14	39		
	53.5	192	
	123	206	

15-A-156535-C-0117B-00031-A-01-1IÉô

Figure 5-2 (Sheet 15 of 15) MÁximum Cruise Power (CRZ2). 2 Engines

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE
ISA -20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

		TQ %	NM/100kg	Kg/h/mot
		IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT -5 °C	FL 10 SAT -7 °C	FL 20 SAT -9 °C	FL 30 SAT -11 °C	FL 40 SAT -13 °C	FL 50 SAT -15 °C
12	110 29.6 193	110 30.1 192	110 30.6 192	110 31.0 191	110 31.5 190	110 31.9 189
	625 620 185	620 615 186	615 612 188	612 612 190	609 609 192	608 608 194
14	110 29.7 194	110 30.2 193	110 30.7 192	110 31.1 191	110 31.6 190	110 32.0 194
	625 620 185	620 615 187	615 612 189	612 612 191	609 609 193	608 608 194
16	110 29.8 195	110 30.3 194	110 30.8 193	110 31.3 192	110 31.7 191	110 32.1 195
	625 620 186	620 615 188	615 612 190	612 612 191	609 609 193	608 608 195
18	110 29.9 195	110 30.4 194	110 30.9 193	110 31.3 193	110 31.8 192	110 32.2 194
	625 620 187	620 615 188	615 612 190	612 612 192	609 609 194	607 607 196
20	110 29.9 195	110 30.4 194	110 30.9 193	110 31.3 192	110 31.8 191	110 32.2 195
	625 620 187	620 615 188	615 612 190	612 612 192	609 609 194	608 608 195
22	110 29.8 195	110 30.3 194	110 30.8 193	110 31.2 192	110 31.7 191	110 32.0 195
	625 620 186	620 615 188	615 612 190	612 612 191	609 609 193	608 608 195
23	110 29.8 195	110 30.2 194	110 30.7 192	110 31.2 191	110 31.6 191	110 31.9 192
	625 620 186	620 615 188	615 612 189	612 612 191	609 609 190	608 608 194

WEIGHT (1000 kg)	FL 60 SAT -17 °C	FL 70 SAT -19 °C	FL 80 SAT -21 °C	FL 90 SAT -23 °C	FL 100 SAT -25 °C	FL 110 SAT -27 °C
12	110 32.2 188	110 32.6 187	110 32.9 186	109 33.5 184	108 34.1 183	104 35.2 180
	607 606 196	606 606 197	606 605 199	598 598 200	591 591 202	572 572 202
14	110 32.4 189	110 32.7 188	110 33.0 187	109 33.7 185	108 34.3 184	104 35.4 181
	606 606 196	606 606 198	606 605 200	598 598 201	591 591 203	573 573 203
16	110 32.5 189	110 32.8 188	110 33.2 187	109 33.8 186	108 34.4 184	104 35.5 181
	606 606 197	606 606 199	606 605 201	598 598 202	591 591 203	573 573 203
18	110 32.6 190	110 32.9 190	110 33.2 188	109 33.8 186	108 598 184	104 591 203
	606 606 197	606 606 199	606 605 201	598 598 202	591 591 203	573 573 203
20	110 32.5 189	110 32.8 188	110 33.1 187	109 33.7 185	108 34.3 184	104 35.3 203
	606 606 197	606 606 199	606 605 201	598 598 202	591 591 203	573 573 202
22	110 32.4 189	110 32.7 188	110 33.0 186	109 33.5 184	107 34.0 182	104 34.9 178
	606 606 196	606 606 198	606 605 200	598 598 200	590 590 201	572 572 199
23	110 32.2 188	110 32.5 187	110 32.8 185	109 33.3 183	107 33.7 180	104 34.5 175
	607 606 196	606 606 197	606 605 199	598 598 199	590 590 199	571 571 197

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Figure 5-3 (Sheet 1 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE **ISA -20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 120 SAT -29 °C	FL 130 SAT -31°C	FL 140 SAT -33 °C	FL 150 SAT -35 °C	FL 160 SAT -37 °C	FL 170 SAT -39 °C
12	101 36.4 554 177 202	98 37.6 537 175 202	95 38.8 520 172 202	91 40.1 503 169 202	88 41.5 486 167 202	85 42.9 470 164 202
14	101 36.5 555 178 203	98 37.7 537 175 203	95 39.0 520 173 203	92 40.2 503 170 202	88 41.6 487 167 202	85 42.9 470 164 202
16	101 36.6 555 178 203	98 37.7 537 176 203	95 38.9 520 173 203	92 40.2 252 170 202	88 41.4 486 166 202	85 42.8 470 163 201
18	101 36.5 555 178 203	98 37.6 537 175 202	95 38.8 520 172 202	91 40.0 503 168 201	88 41.1 486 165 200	85 42.2 469 161 198
20	101 36.3 554 177 201	98 37.3 537 173 200	94 38.3 519 169 199	91 39.2 501 165 196	88 40.0 484 159 193	84 40.5 467 153 189
22	101 35.7 553 173 197	97 36.4 535 168 195	94 36.9 517 162 191			
23	100 35.1 552 170 194	97 35.5 267 163 189				

WEIGHT (1000 kg)	FL 180 SAT -41 °C	FL 190 SAT -43 °C	FL 200 SAT -45 °C	FL 210 SAT -47 °C	FL 220 SAT -49 °C	FL 230 SAT -51 °C
12	82 44.3 454 161 201	79 45.8 439 158 201	77 47.4 424 156 201	74 48.9 410 153 201	71 50.6 396 150 200	69 52.2 383 147 200
14	82 44.3 454 161 201	79 45.7 439 158 201	77 47.2 424 155 200	74 48.7 410 152 200	71 50.2 396 149 199	69 51.7 383 146 198
16	82 44.1 454 160 200	79 45.4 439 157 199	76 46.7 423 153 197	74 47.8 409 149 195	71 48.8 394 144 192	68 49.6 380 139 188
18	82 43.2 452 156 195	79 44.1 437 151 192	76 44.6 421 145 188			

PESO (1000 kg)	FL 240 SAT -53 °C	FL 250 SAT -55 °C
12	66 53.9 370 144 199	64 55.6 357 142 199
14	66 53.1 369 142 196	64 54.3 356 138 193

15-A-156535-C-0117B-00033-A-01-1Éd

Figure 5-3 (Sheet 2 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE
ISA -10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +5 °C	FL 10 SAT +3 °C	FL 20 SAT +1 °C	FL 30 SAT -1 °C	FL 40 SAT -3 °C	FL 50 SAT -5 °C
12	110	110	110	110	110	110
	29.6 631	30.1 627	30.6 623	31.0 620	31.5 617	31.9 615
	192 187	191 189	190 190	189 192	188 194	187 196
14	110	110	110	110	110	110
	29.7 631	30.2 627	30.7 622	31.1 620	31.6 617	32.0 615
	193 187	192 189	191 191	190 193	189 195	188 197
16	110	110	110	110	110	110
	29.8 631	30.3 627	30.8 622	31.3 620	31.7 617	32.1 615
	193 188	192 190	192 192	191 194	190 196	189 197
18	110	110	110	110	110	110
	29.9 631	30.4 627	30.9 622	31.3 619	31.8 616	32.2 615
	194 189	193 190	192 192	191 194	190 196	189 198
20	110	110	110	110	110	110
	29.9 631	30.4 627	30.9 622	31.3 619	31.7 616	32.1 615
	194 189	193 190	192 192	191 194	190 196	189 197
22	110	110	110	110	110	110
	29.8 631	30.3 627	30.8 622	31.2 620	31.6 617	32.0 615
	193 188	192 190	191 192	190 193	189 195	188 197
23	110	110	110	110	110	110
	29.8 631	30.2 627	30.7 622	31.1 620	31.5 617	31.8 615
	193 188	192 189	191 191	190 193	189 194	187 196

WEIGHT (1000 kg)	FL 60 SAT -7 °C	FL 70 SAT -9 °C	FL 80 SAT -11 °C	FL 90 SAT -13 °C	FL 100 SAT -15 °C	FL 110 SAT -17 °C
12	110	109	107	104	101	98
	32.2 614	32.9 605	33.5 597	34.6 579	35.7 561	36.9 543
	187 198	185 199	183 200	180 200	178 200	175 200
14	110	109	107	104	101	98
	32.4 614	33.0 605	33.7 597	34.7 579	35.9 561	37.0 544
	187 199	186 200	184 201	181 201	179 201	176 201
16	110	109	108	104	101	98
	32.5 614	33.1 605	33.8 597	34.8 579	35.9 561	37.0 544
	188 199	186 201	185 202	182 202	179 202	176 201
18	110	109	108	104	101	98
	32.5 614	33.2 605	33.8 597	34.8 579	35.9 561	36.9 544
	188 200	186 201	185 202	182 202	179 201	176 201
20	110	109	108	104	101	98
	32.5 307	33.1 605	33.7 597	34.7 579	35.7 561	36.7 543
	188 199	186 200	184 201	181 201	178 200	174 199
22	110	109	107	104	101	97
	32.3 307	32.9 605	33.4 597	34.3 578	35.1 560	35.8 542
	187 198	185 199	183 200	179 198	174 196	170 194
23	110	109	107	104	100	97
	32.1 307	32.7 605	33.2 596	33.9 577	34.6 559	35.0 540
	186 197	184 198	181 198	176 196	171 193	165 189

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Figure 5-3 (Sheet 3 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE **ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120 SAT -19 °C	FL 130 SAT -21°C	FL 140 SAT -23 °C	FL 150 SAT -25 °C	FL 160 SAT -27 °C	FL 170 SAT -29 °C
12	95 38.1 526 173 200	92 39.3 510 170 201	89 40.6 494 167 201	86 42.0 478 165 201	83 43.3 463 162 201	80 44.8 448 160 201
14	95 38.2 527 173 201	92 39.4 510 171 201	89 40.7 494 168 201	86 42.0 478 165 201	83 43.4 463 162 201	80 44.8 448 159 200
16	95 38.2 527 173 201	92 39.4 510 170 201	89 40.6 494 167 201	86 41.9 478 165 200	83 43.2 463 161 200	80 44.5 447 158 199
18	95 38.1 526 173 200	92 39.2 510 169 200	89 40.3 494 166 199	86 41.4 478 162 198	83 42.4 461 158 196	80 43.4 446 154 193
20	95 37.6 526 170 198	91 38.5 509 166 196	88 39.3 492 161 194	85 40.0 475 156 190	82 40.1 458 148 184	
22	94 36.4 524 164 191	91 36.7 506 157 186				

WEIGHT (1000 kg)	FL 180 SAT -31 °C	FL 190 SAT -34 °C	FL 200 SAT -35 °C	FL 210 SAT -37 °C	FL 220 SAT -39 °C	FL 230 SAT -41 °C
12	78 46.3 433 157 200	75 47.8 418 154 200	72 49.5 404 151 200	70 51.1 391 149 200	67 52.8 377 146 199	65 54.5 364 143 199
14	78 46.2 432 157 200	75 47.7 418 154 199	72 49.2 404 151 199	70 50.7 390 147 198	67 52.2 377 144 197	65 53.5 364 140 194
16	77 45.8 432 155 198	75 47.0 417 151 196	72 48.1 403 146 194	69 49.0 389 142 190	67 49.5 374 135 185	
18	77 44.1 430 148 190	74 44.3 414 141 183				

PESO (1000 kg)	FL 240 SAT -43 °C	FL 250 SAT -45 °C
12	63 56.3 352 140 198	60 58.0 340 137 197
14	62 54.7 350 136 192	60 55.7 338 131 188
15	62 52.5 349 129 183	

15-A-156535-C-0117B-00035-A-01-1IÉð

Figure 5-3 (Sheet 4 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE
ISA

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +15 °C	FL 10 SAT +13 °C	FL 20 SAT +11 °C	FL 30 SAT +9 °C	FL 40 SAT +7 °C	FL 50 SAT +5 °C
12	110	110	110	110	110	110
	29.5 639	30.0 635	30.5 630	31.0 627	31.4 624	31.9 621
	191 189	190 191	189 192	188 194	187 196	186 198
14	110	110	110	110	110	110
	29.6 639	30.1 635	30.6 630	31.1 627	31.6 624	32.0 621
	191 189	190 191	189 193	189 195	188 197	187 199
16	110	110	110	110	110	110
	29.8 639	30.3 635	30.8 630	31.2 627	31.7 624	32.1 621
	192 190	191 192	190 194	189 196	188 198	187 200
18	110	110	110	110	110	110
	29.8 639	30.3 635	30.8 630	31.3 627	31.7 624	32.2 621
	192 191	191 192	191 194	190 196	189 198	188 200
20	110	110	110	110	110	110
	29.8 639	30.3 635	30.8 630	31.2 627	31.7 624	32.1 621
	192 190	191 192	190 194	189 196	188 198	187 199
22	110	110	110	110	110	110
	29.7 639	30.2 635	30.7 630	31.1 627	31.5 624	31.9 621
	192 190	191 192	190 193	189 195	188 197	186 198
23	110	110	110	110	110	110
	29.6 639	30.1 635	30.6 630	31.0 627	31.4 624	31.8 621
	191 189	190 191	189 193	188 194	187 196	185 197

WEIGHT (1000 kg)	FL 60 SAT +3 °C	FL 70 SAT +1 °C	FL 80 SAT -1 °C	FL 90 SAT -3 °C	FL 100 SAT -5 °C	FL 110 SAT -7 °C
12	107	104	100	97	94	92
	32.9 602	33.9 584	35.0 566	36.1 549	37.3 532	38.5 516
	183 198	181 198	178 198	175 198	173 199	170 199
14	107	104	101	98	95	92
	33.0 602	34.1 584	35.2 566	36.3 549	37.5 532	38.6 516
	184 199	182 199	179 199	176 199	174 199	171 199
16	107	104	101	98	95	92
	33.1 603	34.2 584	35.3 566	36.3 549	37.5 532	38.6 516
	185 200	182 200	179 200	177 200	174 199	171 199
18	107	104	101	97	94	92
	33.1 603	34.2 584	35.2 566	36.2 549	37.3 532	38.4 516
	185 200	182 200	179 199	176 199	173 199	170 198
20	107	104	100	97	94	91
	33.1 602	34.0 584	35.0 566	36.0 549	36.9 531	37.8 515
	184 199	181 199	178 198	175 197	171 196	167 195
22	107	103	100	97	94	91
	32.8 602	33.7 584	34.5 566	35.2 548	35.8 530	36.2 513
	183 198	179 197	175 195	170 193	165 190	159 185
23	107	103	100	97	93	
	32.6 601	33.3 583	34.0 564	34.5 547	34.6 528	
	181 196	177 194	172 192	166 188	159 183	

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Figure 5-3 (Sheet 5 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE
ISA

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120 SAT -9 °C	FL 130 SAT -11°C	FL 140 SAT -13 °C	FL 150 SAT -15 °C	FL 160 SAT -17 °C	FL 170 SAT -19 °C
12	89 39.8 500 168 199	86 41.1 484 165 199	83 42.5 469 163 199	81 43.9 454 160 199	78 45.3 439 158 199	75 46.8 425 155 199
14	89 39.9 500 168 199	86 41.2 484 166 199	83 42.5 469 163 199	81 43.8 454 160 199	78 45.2 439 157 199	75 46.7 425 155 198
16	89 39.8 500 168 199	86 41.0 484 165 199	83 42.3 469 162 198	81 43.6 454 159 198	78 44.9 438 156 197	75 46.1 423 152 195
18	89 39.6 499 167 197	86 40.6 484 163 197	83 41.7 468 159 195	80 42.6 452 155 193	77 43.4 437 150 190	74 43.9 422 144 185
20	88 38.6 498 162 192	85 39.3 482 157 190	82 39.7 465 151 185			
21	88 37.7 497 158 188					

WEIGHT (1000 kg)	FL 180 SAT -21 °C	FL 190 SAT -23 °C	FL 200 SAT -25 °C	FL 210 SAT -27 °C	FL 220 SAT -29 °C	FL 230 SAT -31 °C
12	73 48.4 411 152 199	70 49.9 397 150 198	68 51.6 384 147 198	66 53.2 371 144 198	63 55.0 358 141 197	61 56.7 346 139 196
14	73 48.2 410 152 198	70 49.6 397 149 197	68 51.1 383 145 196	65 52.4 370 142 194	63 53.7 357 138 192	61 54.8 345 133 189
16	72 47.2 409 148 193	70 48.2 396 144 191	67 48.9 381 138 186			
17	72 46.0 408 144 188	69 46.2 394 137 182				

WEIGHT (1000 kg)	FL 240 SAT -33 °C	FL 250 SAT -35 °C
12	59 58.5 334 136 196	57 60.1 323 132 194
13	59 57.5 334 133 192	57 58.7 322 129 189
14	58 55.5 332 128 185	

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Figure 5-3 (Sheet 6 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE
ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL SAT +25 °C	FL 10 SAT +23 °C	FL 20 SAT +21 °C	FL 30 SAT +19 °C	FL 40 SAT +17 °C	FL 50 SAT +15 °C
12	110	110	110	107	105	102
	29.5 647	30.0 642	30.5 637	31.4 620	32.3 603	33.3 586
	189 191	188 193	187 194	185 195	183 195	180 195
14	110	110	110	107	105	102
	29.6 647	30.1 642	30.6 637	31.5 620	32.5 603	33.5 586
	190 191	189 193	188 195	186 195	183 196	181 196
16	110	110	110	107	105	102
	29.7 647	30.2 642	30.7 637	31.6 620	32.6 603	33.5 586
	191 192	190 194	189 196	186 196	184 196	181 197
18	110	110	110	107	105	102
	29.8 647	30.3 642	30.8 637	31.7 620	32.6 603	33.5 586
	191 193	190 194	189 196	187 196	184 197	181 197
20	110	110	110	107	105	102
	29.8 647	30.2 642	30.7 637	31.6 620	32.5 603	33.4 586
	191 193	190 194	189 196	186 196	183 196	181 196
22	110	110	110	107	105	102
	29.7 647	30.1 642	30.6 637	31.4 620	32.2 603	33.0 586
	191 192	189 193	188 195	185 195	182 194	178 193
23	110	110	110	107	104	101
	29.6 647	30.0 642	30.5 637	31.3 620	32.0 603	32.7 586
	190 191	189 193	187 194	184 194	180 193	176 191

WEIGHT (1000 kg)	FL 60 SAT +13 °C	FL 70 SAT +11 °C	FL 80 SAT +9 °C	FL 90 SAT +7°C	FL 100 SAT +5 °C	FL 110 SAT +3 °C
12	99	96	93	91	88	85
	34.4 569	35.5 552	36.6 535	37.8 519	39.0 503	40.3 488
	178 195	175 196	173 196	170 196	168 196	165 197
14	99	96	93	91	88	85
	34.5 569	35.6 552	36.8 535	37.9 519	39.1 503	40.4 488
	178 196	176 197	173 197	171 197	168 197	166 197
16	99	96	93	91	88	85
	34.6 569	35.7 552	36.8 535	37.9 519	39.1 503	40.3 488
	179 197	176 197	174 197	171 197	168 197	165 196
18	99	96	93	91	88	85
	34.5 569	35.6 552	36.6 535	37.7 519	38.8 503	39.9 487
	179 196	176 196	173 196	170 196	167 195	163 194
20	99	96	93	90	87	85
	34.4 569	35.3 551	36.3 534	37.1 518	37.9 502	38.6 486
	178 195	174 195	171 194	167 192	162 190	158 188
22	99	96	93	90		
	33.8 568	34.5 550	35.2 533	35.5 516		
	174 192	170 190	165 187	159 183		
23	98	95	92			
	33.3 567	33.8 549	34.0 531			
	171 189	166 186	159 180			

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Figure 5-3 (Sheet 7 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE
ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

TQ %	IAS	NM/100kg	Kg/h/mot	TAS
------	-----	----------	----------	-----

WEIGHT (1000 kg)	FL 120 SAT +1 °C	FL 130 SAT -1 °C	FL 140 SAT -3 °C	FL 150 SAT -5 °C	FL 160 SAT -7 °C	FL 170 SAT -9 °C
12	83	80	78	75	73	70
	41.6 472	43.0 458	44.4 443	45.8 430	47.3 416	48.8 403
	163 197	161 197	158 197	156 197	153 197	150 197
14	83	80	78	75	73	70
	41.7 472	43.0 458	44.3 443	45.7 430	47.1 416	48.5 402
	163 197	161 197	158 197	155 196	152 196	149 195
16	83	80	77	75	73	70
	41.5 472	42.7 458	44.0 443	45.2 429	46.3 415	47.3 401
	162 196	160 196	156 195	153 194	149 192	145 190
18	82	80	77	75		
	40.9 472	41.8 457	42.7 442	43.2 428		
	160 193	156 191	151 188	146 185		
20	82					
	39.0 470					
	152 183					

WEIGHT (1000 kg)	FL 180 SAT -11 °C	FL 190 SAT -13 °C	FL 200 SAT -15 °C	FL 210 SAT -17 °C	FL 220 SAT -19 °C	FL 230 SAT -21 °C
12	68	66	64	61	59	57
	50.4 389	52.1 377	53.8 364	55.4 352	57.2 340	58.8 329
	148 196	145 196	142 196	140 195	137 194	134 193
14	68	66	63	61	59	
	50.0 389	51.4 376	52.7 363	53.8 351	54.7 338	
	146 194	143 193	139 191	135 189	130 185	
16	67	65				
	48.1 387	48.3 374				
	140 186	133 181				

WEIGHT (1000 kg)	FL 240 SAT -23 °C	FL 250 SAT -25 °C
12	55	53
	60.4 317	61.8 306
	130 192	126 189
13	55	53
	58.6 316	58.7 305
	126 185	119 179

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Figure 5-3 (Sheet 8 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE
ISA +20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

		TQ %	
		NM/100kg	Kg/h/mot
		IAS	TAS

WEIGHT (1000 kg)	FL SL SAT +35 °C	FL 10 SAT +33 °C	FL 20 SAT +31 °C	FL 30 SAT +29 °C	FL 40 SAT +27 °C	FL 50 SAT +25 °C
12	105 30.1 630 185 190	102 31.0 613 183 190	100 32.0 596 181 190	97 32.9 579 178 191	95 33.9 563 176 191	92 35.0 547 174 191
14	105 30.3 630 186 191	102 31.2 613 184 191	100 32.1 596 181 191	97 33.1 580 179 192	95 34.1 563 177 192	92 35.1 547 174 192
16	105 30.4 630 187 191	102 31.3 613 184 192	100 32.2 596 182 192	97 33.1 580 180 192	95 34.1 563 177 192	92 35.1 547 174 192
18	105 30.4 630 187 192	102 31.3 613 184 192	100 32.2 596 182 192	97 33.1 580 179 192	95 34.1 563 177 192	92 35.0 547 174 192
20	105 30.3 630 187 191	102 31.2 613 184 191	100 32.1 596 181 191	97 32.9 579 178 191	95 33.8 563 175 190	92 34.7 547 172 190
22	105 30.2 630 186 190	102 31.0 613 183 190	100 31.8 595 179 189	97 32.5 579 176 188	94 33.2 562 172 187	92 33.8 546 167 185
23	105 30.0 629 185 189	102 30.7 612 181 188	99 31.4 595 177 187	97 32.0 578 173 185	94 32.6 561 168 183	91 32.9 544 162 179

WEIGHT (1000 kg)	FL 60 SAT +23 °C	FL 70 SAT +21 °C	FL 80 SAT +19 °C	FL 90 SAT +17°C	FL 100 SAT +15 °C	FL 110 SAT +13 °C
12	90 36.1 531 171 192	87 37.2 516 169 192	85 38.4 501 167 192	83 39.6 487 164 193	80 40.8 472 162 193	78 42.1 458 160 193
14	90 36.2 531 172 192	87 37.3 516 169 193	85 38.5 501 167 193	83 39.6 487 165 193	80 40.9 472 162 193	78 42.1 458 160 193
16	90 36.2 531 172 192	87 37.3 516 169 192	85 38.4 501 167 192	83 39.5 487 164 192	80 40.7 472 161 192	78 41.8 458 159 192
18	90 36.1 531 171 192	87 37.1 516 168 191	85 38.1 501 165 191	82 39.1 486 162 190	80 40.0 471 158 189	78 40.9 457 154 187
20	89 35.6 531 169 189	87 36.4 515 165 187	85 37.1 500 160 185	82 37.7 485 156 183	79 38.0 470 150 178	
22	89 34.3 529 162 182	86 34.5 513 156 177				

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Figure 5-3 (Sheet 9 of 10) Máximo Cruise Power (MCT). 1 Engine

MAXIMUM CRUISE POWER (MAX MCT)
1 ENGINE **ISA +20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

		TQ %	
		NM/100kg	Kg/h/mot
		IAS	TAS

WEIGHT (1000 kg)	FL 120 SAT +11 °C	FL 130 SAT +9°C	FL 140 SAT +7 °C	FL 150 SAT +5 °C	FL 160 SAT +3 °C	FL 170 SAT +1 °C
12	76 43.5 445 157 193	74 44.9 431 155 194	72 46.4 418 153 194	69 47.9 405 150 194	67 49.4 392 148 194	65 51.0 379 145 193
14	76 43.4 445 157 193	74 44.8 431 155 193	71 46.2 418 152 193	69 47.6 404 149 192	67 49.0 391 146 192	65 50.3 379 143 191
16	76 43.0 444 156 191	74 44.2 431 152 190	71 45.3 417 149 189	69 46.3 403 145 187	67 47.1 390 140 184	64 47.5 377 134 179
18	75 41.7 443 150 185	73 42.2 429 145 181				

WEIGHT (1000 kg)	FL 180 SAT -1 °C	FL 190 SAT -3 °C	FL 200 SAT -5 °C	FL 210 SAT -7 °C	FL 220 SAT -9 °C	FL 230 SAT -11 °C
12	63 52.7 366 142 193	61 54.3 355 140 193	59 56.0 343 137 192	57 57.6 333 134 191	55 59.0 322 131 190	53 60.4 311 127 188
13	63 52.4 366 141 192	61 53.8 355 138 191	59 55.2 343 135 189	57 56.4 332 131 187	55 57.4 321 127 184	53 57.9 310 121 180
14	63 51.6 366 139 189	61 52.8 354 135 187	58 53.7 342 131 184	56 54.0 331 125 179		
15	62 50.3 365 135 183	60 50.6 353 129 178				

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Figure 5-3 (Sheet 10 of 10) Máximo Cruise Power (MCT). 1 Engine

LONG RANGE CRUISE
2 ENGINES ISA -20°C

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	
NM/100kg	Kg/h/mot
IAS	TAS

WEIGHT (1000 kg)	FL SL		FL 10		FL 20	
	SAT -5 °C		SAT -7 °C		SAT -9 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	41 29.2 185	39 31.0 177	40 30.0 183	39 296 178	40 31.9 175	38 289 170
14	43 28.7 187	45 31.0 178	42 29.5 186	45 304 178	42 31.1 184	44 286 178
16	50 28.2 199	50 337 190	49 29.5 191	49 329 183	48 30.3 189	48 302 183
18	55 27.6 205	54 28.8 194	54 322 186	53 348 196	54 315 192	52 340 197
20	58 27.0 206	58 365 197	57 28.1 197	58 357 198	56 330 189	57 350 198
22	60 26.4 208	63 375 198	60 27.2 201	63 369 192	60 348 199	63 363 200
23	62 26.1 209	65 382 203	62 26.8 194	65 377 207	62 358 201	66 373 202

WEIGHT (1000 kg)	FL 30		FL 40		FL 50	
	SAT -11 °C		SAT -13 °C		SAT -15 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	39 31.9 180	38 282 180	39 32.8 179	38 276 181	38 33.7 171	38 267 173
14	42 31.2 183	43 293 183	42 32.2 182	42 287 184	44 32.9 176	41 288 178
16	48 30.5 192	47 31.9 183	47 31.4 189	47 305 191	48 32.8 181	46 303 183
18	53 29.7 197	52 331 187	52 30.5 195	51 323 197	51 31.7 185	51 294 187
20	55 29.0 199	57 342 192	55 29.7 196	57 334 199	54 30.6 190	56 327 192
22	60 28.2 202	63 357 197	60 28.8 201	63 352 203	59 29.4 196	63 347 205
23	62 27.8 205	66 368 204	62 28.3 204	66 363 206	62 28.8 199	67 357 207

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Figure 5-4 (Sheet 1 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA -20°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5

FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 60		FL 70		FL 80	
	SAT -17 °C		SAT -19 °C		SAT -21 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	38	37	38	37	38	36
	34.6	264	36.9	238	35.6	258
	175	183	168	175	174	184
14	43	41	43	40	42	40
	33.8	282	35.8	250	34.7	275
	183	191	172	179	181	191
16	47	45	46	45	45	45
	32.9	296	34.5	266	33.8	289
	187	195	176	184	185	195
18	50	51	50	51	49	51
	32.1	307	33.2	284	32.8	301
	190	197	181	189	187	198
20	54	56	54	57	54	57
	31.1	323	31.9	305	31.8	320
	193	201	187	194	192	203
22	60	63	60	64	60	64
	30.1	343	30.5	330	30.7	340
	199	207	193	201	197	208
23	62	67	63	67	63	67
	29.6	354	29.9	342	30.1	351
	201	209	196	204	200	211

WEIGHT (1000 kg)	FL 90		FL 100		FL 110	
	SAT -23 °C		SAT -25 °C		SAT -27 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	37	36	37	35	36	35
	37.7	247	40.0	220	38.8	242
	171	186	162	177	170	188
14	41	39	40	39	40	39
	36.7	261	38.6	234	37.7	255
	176	192	166	180	174	192
16	45	45	44	45	44	45
	35.6	275	36.9	253	36.6	268
	180	196	172	187	177	196
18	49	51	49	51	49	52
	34.4	291	35.3	274	35.2	286
	184	200	178	194	182	201
20	54	57	54	58	54	58
	33.1	311	33.7	296	33.9	307
	190	206	184	200	188	208
22	60	64	60	64	60	64
	31.9	332	32.1	320	32.5	328
	195	212	189	206	193	213
23	63	67	63	67	63	67
	31.2	343	31.4	332	31.8	339
	197	214	192	208	195	216

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Figure 5-4 (Sheet 2 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA -20°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120				FL 130				FL 140			
	SAT -29 °C				SAT -31 °C				SAT -33 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	35		34		35		34		34		33	
	41.1	229	43.3	205	42.3	222	44.5	200	43.5	216	45.6	196
	165	188	156	178	163	188	154	178	160	188	152	179
14	39		39		39		39		38		39	
	39.7	243	41.4	222	40.8	237	42.4	219	41.8	232	43.3	216
	169	193	161	184	167	193	160	186	165	194	159	187
16	44		45		44		46		44		46	
	38.3	259	39.4	244	39.1	255	40.2	242	40.0	252	41.0	240
	174	198	169	192	173	200	168	194	172	202	168	197
18	49		52		49		52		49		52	
	36.7	279	37.4	266	37.5	276	38.1	263	38.3	272	38.8	261
	180	205	175	199	179	207	174	201	178	209	172	202
20	55		58		55		58		54		58	
	35.2	300	35.5	289	35.9	296	36.1	286	36.6	293	36.7	283
	186	211	180	205	184	213	179	207	182	214	177	208
22	60		64		60		64		60		65	
	33.7	320	33.7	311	34.3	316	34.2	309	34.9	313	34.8	307
	190	216	185	210	188	217	183	212	186	218	182	213
23	63		68		62		68		63		69	
	32.9	331	32.9	323	33.5	327	33.3	322	34.1	324	33.8	321
	192	218	187	213	190	219	186	215	188	221	185	217

WEIGHT (1000 kg)	FL 150				FL 160				FL 170			
	SAT -35 °C				SAT -37 °C				SAT -39 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		33		33		34		33		35	
	44.8	210	46.8	192	45.9	206	47.7	193	47.1	202	48.7	192
	158	188	150	179	156	189	152	184	155	190	152	187
14	38		39		38		40		38		40	
	42.9	228	44.3	213	43.9	224	45.2	212	44.9	222	46.1	211
	164	195	159	189	163	197	158	192	162	199	158	194
16	44		46		44		46		44		46	
	41.0	248	41.8	237	41.8	246	42.6	234	42.7	242	43.4	231
	171	204	166	198	170	205	164	199	168	207	163	200
18	49		52		49		52		49		52	
	39.1	268	39.5	258	39.8	265	40.1	256	40.6	262	40.8	254
	176	210	171	204	175	211	170	205	173	213	168	207
20	54		58		54		58		54		59	
	37.3	289	37.3	280	37.9	285	37.9	279	38.5	282	38.4	276
	181	215	176	209	179	216	174	211	177	217	173	212
22	60		65		60		66		60		66	
	35.5	309	35.3	306	36.0	307	35.7	305	36.5	305	36.1	304
	184	219	181	216	183	221	180	218	181	223	178	219
23	63		69		63		69		63		70	
	34.6	321	34.3	320	35.1	319	34.7	318	35.5	318	35.0	318
	187	222	184	219	185	224	182	221	184	226	181	223

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Figure 5-4 (Sheet 3 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA -20°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5

FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 180		FL 190		FL 200	
	SAT -41°C		SAT -43°C		SAT -45 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	33	35	33	34	33	34
	48.3	198	49.8	189	51.0	185
	153	192	150	188	149	189
14	38	40	38	40	38	40
	45.9	219	46.9	209	47.9	206
	161	201	157	196	160	203
16	44	46	44	46	44	47
	43.6	239	44.1	229	44.9	227
	167	208	161	202	160	203
18	49	53	49	53	48	53
	41.3	259	41.4	252	42.0	250
	171	214	167	209	166	210
20	54	59	54	59	54	59
	39.2	279	38.9	275	39.4	274
	175	218	171	214	173	220
22	60	66	61	67	61	66
	37.0	304	36.5	303	36.8	302
	180	225	177	221	176	223
23	64	70	63	69	63	69
	35.9	317	35.3	317	35.6	315
	183	228	179	224	180	229

WEIGHT (1000 kg)	FL 210		FL 220		FL 230	
	SAT -47 °C		SAT -49 °C		SAT -51°C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	33	36	34	36	33	35
	51.7	193	53.0	185	52.9	191
	152	199	149	196	151	202
14	38	40	38	40	38	40
	49.0	210	49.7	200	50.0	207
	157	206	152	199	155	207
16	44	47	43	47	43	47
	46.2	230	46.3	224	47.1	227
	162	213	158	208	161	214
18	48	53	48	53	48	53
	43.5	249	43.3	246	44.2	247
	166	217	162	213	164	219
20	54	60	55	60	55	60
	40.8	274	40.2	273	41.3	273
	171	223	167	220	169	225
22	60	66	60	66	60	66
	38.2	298	37.4	299	38.5	296
	174	228	170	223	171	228
23	63	69	62	69	63	68
	37.0	309	35.9	312	37.1	309
	175	229	171	224	172	229

15-A-156535-C-0117B-00045-A-01-1IÉ6

Figure 5-4 (Sheet 4 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA -20°C

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240				FL 250			
	SAT -53 °C				SAT -55 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		35		33		34	
	55.6	183	56.6	174	57.0	179	57.9	170
	148	203	143	198	146	204	141	197
14	38		41		38		41	
	52.1	202	52.5	195	53.2	199	53.4	194
	153	211	149	205	151	212	148	207
16	43		47		43		47	
	48.8	221	48.6	217	49.6	218	49.3	216
	157	216	153	211	155	217	152	213
18	48		53		49		53	
	45.4	243	44.8	243	46.0	242	45.2	242
	160	221	158	217	159	223	156	218
20	54		59		54		59	
	42.1	269	41.1	270	42.4	267	41.1	270
	164	226	161	222	162	227	158	222
21	57		62		57		63	
	40.5	281	39.2	284	40.6	281	39.0	287
	165	228	162	223	163	228	160	224
22	60		66		59			
	38.8	295	37.3	302	38.9	293		
	167	229	163	225	163	228		
23	61							
	37.3	303						
	164	226						

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Figure 5-4 (Sheet 5 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA -10°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL		FL 10		FL 20	
	SAT +5 °C		SAT +3 °C		SAT +1 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	39	37	38	37	38	37
	29.4	300	31.1	269	30.3	293
	181	176	172	167	180	177
14	41	44	41	43	40	43
	28.9	307	30.3	292	29.7	301
	183	178	182	177	181	179
16	44	50	48	49	47	48
	28.3	320	29.4	312	29.0	329
	186	181	189	184	193	191
18	55	54	54	53	53	52
	27.6	358	28.7	326	28.3	350
	203	197	192	187	200	198
20	57	58	56	58	56	58
	27.0	367	27.9	342	27.7	359
	204	198	196	191	201	199
22	60	63	60	64	60	64
	26.4	377	27.0	360	27.0	371
	205	199	200	195	203	200
23	62	66	62	66	62	66
	26.0	385	26.6	369	26.6	381
	206	201	202	196	205	203

WEIGHT (1000 kg)	FL 30		FL 40		FL 50	
	SAT -1 °C		SAT -3 °C		SAT -5 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	38	36	37	36	37	37
	32.1	279	33.9	252	33.1	273
	177	179	168	171	175	181
14	41	42	41	42	41	42
	31.4	290	32.8	273	32.4	285
	179	182	176	179	179	184
16	46	48	46	47	45	46
	30.6	312	31.8	290	31.5	304
	188	191	182	185	186	191
18	52	52	51	51	50	51
	29.7	333	30.8	305	30.5	324
	195	198	185	188	192	198
20	55	57	54	57	54	57
	29.0	344	29.7	325	29.7	337
	197	200	191	194	194	200
22	60	64	60	64	60	64
	28.1	363	28.6	348	28.7	358
	201	204	196	199	200	206
23	63	67	63	67	63	67
	27.7	373	28.1	359	28.3	369
	203	207	199	202	202	208

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Figure 5-4 (Sheet 6 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA -10°C

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 60				FL 70				FL 80			
	SAT -7 °C				SAT -9 °C				SAT -11 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	37 35.0 173	37 262 184	36.9 238 166	238 176	37 36.0 172	37 257 185	36 37.9 164	36 233 177	37 37.0 170	36 252 186	36 38.9 163	228 178
14	41 34.2 177	41 275 188	35.7 254 171	254 181	40 35.0 176	40 270 189	41 36.6 169	41 249 182	40 35.9 175	40 265 191	40 37.5 167	243 182
16	45 33.2 182	46 291 193	34.4 271 176	271 186	45 34.0 181	45 286 194	46 35.1 174	46 266 187	44 34.8 179	45 281 195	45 35.9 172	262 188
18	49 32.1 187	51 308 198	33.0 290 180	290 191	49 32.9 185	49 303 199	51 33.7 179	51 286 193	49 33.6 183	51 298 200	51 34.4 178	282 194
20	54 31.0 191	57 327 203	31.6 311 186	311 197	54 31.7 190	54 323 205	58 32.2 185	58 310 199	54 32.4 189	58 319 207	58 32.8 185	308 202
22	60 30.0 197	64 349 209	30.3 337 192	337 204	60 30.5 196	64 346 211	64 30.8 191	64 334 206	61 31.1 195	65 343 213	65 31.3 190	331 207
23	63 29.4 201	68 362 213	29.6 349 195	349 207	64 29.9 200	64 359 215	68 30.1 194	68 346 208	64 30.5 199	68 356 217	68 30.6 192	343 210

WEIGHT (1000 kg)	FL 90				FL 100				FL 110			
	SAT -13 °C				SAT -15 °C				SAT -17 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	36 38.0 169	36 247 188	36.0 40.0 161	223 179	37 38.9 169	37 244 190	35 41.1 159	35 218 179	37 40.0 167	35 239 191	35 42.2 157	213 180
14	40 36.9 173	40 260 192	38.5 38.5 165	238 183	41 37.8 173	41 258 195	40 39.4 163	40 233 184	40 38.8 171	40 252 195	40 40.3 162	230 185
16	44 35.7 177	45 275 196	36.8 36.8 171	257 189	44 36.6 175	44 270 198	45 37.6 169	45 253 190	44 37.4 174	45 266 199	45 38.4 168	250 192
18	49 34.4 182	51 293 202	35.1 35.1 177	279 196	49 35.2 181	49 289 203	52 35.8 176	52 277 198	49 35.9 180	52 286 205	52 36.4 175	275 200
20	55 33.1 188	58 316 209	33.4 33.4 184	305 204	55 33.8 187	55 312 211	59 34.0 182	59 302 205	55 34.4 186	59 309 213	59 34.6 181	299 206
22	61 31.7 194	65 339 215	31.8 31.8 188	328 209	61 32.3 193	65 335 217	65 32.4 187	65 325 210	61 32.9 191	65 332 218	65 32.8 185	322 212
23	64 31.1 197	68 351 218	31.1 31.1 191	340 211	64 31.6 195	64 346 219	68 31.6 189	68 337 213	64 32.2 193	69 343 221	69 32.0 188	336 215

15-A-156535-C-0117B-00048-A-01-1IÉö

Figure 5-4 (Sheet 7 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA -10°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120		FL 130		FL 140	
	SAT -19 °C		SAT -21 °C		SAT -23 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	36	34	36	34	35	34
	41.1	234	42.2	228	43.5	222
	165	192	163	193	161	193
14	39	40	39	40	39	40
	39.8	246	40.8	241	41.9	235
	169	196	166	196	164	197
16	43	45	43	46	44	46
	38.3	261	39.1	248	40.0	254
	172	200	167	194	170	204
18	49	52	49	53	49	53
	36.7	283	37.1	273	37.7	276
	179	207	174	202	176	211
20	55	59	55	59	55	59
	35.0	306	35.1	296	36.3	298
	185	214	179	208	181	217
22	61	65	61	66	60	66
	33.5	328	33.3	321	34.6	320
	189	219	184	214	185	222
23	63	69	63	69	63	70
	32.7	339	32.4	334	33.8	332
	191	222	187	217	188	225

WEIGHT (1000 kg)	FL 150		FL 160		FL 170	
	SAT -25 °C		SAT -27 °C		SAT -29 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	34	34	34	34	33	34
	44.7	216	46.6	196	47.1	206
	159	193	150	183	155	194
14	38	40	38	40	38	40
	42.9	231	44.1	218	44.8	225
	163	198	158	192	160	202
16	44	46	44	46	44	47
	41.0	251	41.5	240	42.6	246
	169	205	164	200	167	209
18	49	53	49	53	49	53
	39.0	272	39.1	264	40.3	267
	175	212	170	206	171	215
20	55	59	55	60	55	60
	37.0	294	36.9	288	38.2	288
	179	218	174	212	176	220
22	60	66	61	67	61	67
	35.2	317	34.8	315	36.1	314
	184	223	180	219	181	227
23	64	70	64	70	64	70
	34.3	330	33.8	328	34.2	327
	186	226	182	222	183	229

15-A-156535-C-0117B-00049-A-01-1E6

Figure 5-4 (Sheet 8 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA -10°C

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 180				FL 190				FL 200			
	SAT -31°C				SAT -33°C				SAT -35 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		34		33		34		33		34	
	48.2	202	49.8	190	49.4	199	50.9	187	50.6	196	52.0	185
	153	195	148	189	151	197	147	190	150	198	146	193
14	38		40		38		40		38		41	
	45.8	222	46.7	212	46.8	219	47.6	209	47.9	216	48.5	207
	159	203	155	198	158	205	153	199	157	207	152	201
16	44		47		44		47		44		47	
	43.4	243	43.7	235	44.2	240	44.4	233	45.1	236	45.2	230
	165	211	161	205	164	212	159	207	162	213	158	208
18	49		53		49		53		49		54	
	41.1	263	40.9	258	41.8	260	41.5	257	42.5	258	42.1	256
	170	216	165	211	168	218	164	213	166	219	163	215
20	55		60		55		60		55		61	
	38.8	286	38.3	285	39.3	285	38.8	283	39.9	284	39.3	282
	174	222	171	218	173	224	170	220	172	226	168	222
22	61		67		61		67		61		67	
	36.6	312	35.9	311	37.0	309	36.3	309	37.4	306	36.6	308
	179	228	176	224	177	229	173	224	174	229	171	225
23	64		70		64		70		63		70	
	35.6	323	34.8	324	35.9	321	35.0	322	36.2	319	35.2	321
	180	230	177	225	178	230	174	226	175	231	172	226

WEIGHT (1000 kg)	FL 210				FL 220				FL 230			
	SAT -37 °C				SAT -39 °C				SAT -41°C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		36		33		37		33		37	
	51.7	195	52.5	190	52.9	192	53.4	189	54.2	188	54.5	187
	150	201	149	200	149	203	148	202	147	204	147	204
14	38		41		38		41		38		41	
	48.8	214	49.2	207	49.8	211	50.0	206	50.8	208	50.9	203
	156	209	152	204	154	210	151	206	153	211	149	207
16	43		47		43		47		43		47	
	45.9	234	45.8	228	46.7	231	46.5	227	47.5	228	47.2	226
	160	214	156	209	158	216	155	211	157	217	154	213
18	49		54		49		54		50		55	
	43.1	256	42.6	254	43.7	255	43.1	254	44.3	255	43.6	254
	165	221	162	217	164	223	161	219	163	226	160	221
20	55		61		55		61		55		60	
	40.4	282	39.6	281	40.9	279	40.0	280	41.3	276	40.2	279
	170	228	166	223	167	228	164	224	165	228	162	224
22	61		67		60		67		59		64	
	37.8	305	36.7	307	38.0	304	36.8	307	38.3	298	37.0	296
	172	230	168	225	170	231	166	226	165	228	158	219
23	64		69		61		66					
	36.4	319	35.3	319	36.8	308	35.5	306				
	174	232	168	225	166	227	159	217				

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Figure 5-4 (Sheet 9 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240				FL 250				FL 260			
	SAT -43 °C				SAT -45 °C				SAT -46°C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		37		33		36		33		36	
	55.4	185	55.7	184	56.7	183	56.9	181	57.5	182	57.6	178
	146	206	145	205	144	207	143	205	144	210	141	205
14	38		41		38		41		39		42	
	51.8	205	51.8	201	52.8	202	52.7	198	53.4	205	53.1	201
	151	213	148	208	149	213	146	209	150	219	146	213
16	43		47		44		48		45		49	
	48.3	226	47.8	224	49.0	225	48.4	224	49.6	227	48.8	225
	155	218	152	215	154	220	151	217	154	225	151	220
18	50		55		49		54		49		54	
	44.8	253	44.0	252	45.4	250	44.4	251	45.9	247	44.6	250
	161	227	158	222	158	227	155	223	156	227	153	223
20	55		60		54		59		53		57	
	41.6	275	40.3	278	41.8	273	40.4	276	42.0	268	40.4	266
	162	229	159	224	160	229	155	223	155	225	147	215
21	57		62		55							
	39.9	288	38.6	286	40.2	276						
	163	230	157	221	154	222						
22	57											
	38.4	286										
	156	220										

WEIGHT (1000 kg)	FL 270				FL 280				FL 290			
	SAT -48 °C				SAT -50 °C				SAT -52°C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	34		35		36		35		36		39	
	58.4	184	58.4	176	59.2	188	59.0	175	60.3	186	59.6	185
	145	215	139	206	147	222	137	207	146	224	143	220
14	40		44		40		44		39		43	
	54.2	205	53.5	205	55.1	203	54.4	203	56.1	200	55.2	199
	150	222	148	220	148	223	147	221	146	224	143	220
16	44		48		44		48		44		48	
	50.3	225	49.3	223	50.9	222	49.7	222	51.4	219	50.0	221
	152	226	149	220	149	226	146	220	147	225	143	220
17	47		51		46		51		46		51	
	48.3	235	47.0	236	48.7	233	47.1	235	48.9	232	47.1	236
	153	226	149	222	150	226	147	222	147	227	145	222
18	49		54		49		54		48		52	
	46.2	246	44.6	250	46.3	246	44.5	251	46.5	243	44.5	241
	153	227	150	223	151	228	148	223	147	226	140	215
19	52		55		50							
	44.0	261	42.4	259	44.2	251						
	155	229	148	219	147	222						

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Figure 5-4 (Sheet 10 of 27) Long Range Cruise. 2 Engines

**LONG RANGE CRUISE
2 ENGINES ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
 PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/mot
IAS	TAS

WEIGHT (1000 kg)	FL	300
	SAT	-54 °C
	CRZ 1	CRZ 2
12	35	40
	61.6	182
	144	225
13	37	41
	59.4	188
	143	224
14	39	42
	57.0	196
	143	224
15	41	45
	54.5	206
	143	224
16	43	48
	51.8	218
	144	225
17	46	50
	49.0	232
	145	227

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Figure 5-4 (Sheet 11 of 27) Long Range Cruise, 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL		FL 10		FL 20	
	SAT +15 °C		SAT +13 °C		SAT +11 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	38	36	38	36	37	36
	29.6	300	31.1	268	30.4	293
	179	177	169	167	177	178
14	40	43	40	43	39	43
	29.0	307	30.2	292	29.8	301
	180	178	178	176	178	179
16	49	49	48	48	48	48
	28.3	339	29.3	315	29.0	332
	194	192	186	185	192	193
18	54	54	53	53	52	52
	27.6	360	28.6	330	28.3	351
	200	198	191	189	198	199
20	56	59	56	59	55	59
	27.0	368	27.7	350	27.6	360
	201	199	196	194	198	199
22	59	64	59	64	59	64
	26.3	380	26.8	368	26.9	375
	202	200	199	197	201	201
23	62	67	62	67	62	67
	25.9	390	26.4	377	26.5	386
	204	202	201	199	203	204

WEIGHT (1000 kg)	FL 30		FL 40		FL 50	
	SAT +9 °C		SAT +7 °C		SAT +5 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	36	36	36	37	36	37
	32.2	278	33.8	254	33.2	271
	173	179	166	172	171	180
14	39	43	39	43	40	42
	31.5	289	32.7	278	32.4	284
	176	182	176	182	175	184
16	47	47	47	47	46	46
	30.6	319	31.7	293	31.4	311
	188	195	180	186	186	196
18	51	52	50	52	50	51
	29.7	334	30.7	310	30.5	326
	192	199	184	190	189	199
20	54	58	54	58	54	58
	28.9	346	29.5	333	29.6	340
	194	200	190	196	192	201
22	59	64	59	64	60	64
	28.0	365	28.4	353	28.6	361
	198	205	194	201	197	207
23	63	67	63	68	64	68
	27.6	378	27.8	365	28.1	376
	202	208	197	203	201	211

15-A-156535-C-0117B-00053-A-01-1Éô

Figure 5-4 (Sheet 12 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 60		FL 70		FL 80	
	SAT +3 °C		SAT +1 °C		SAT -1 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	35 35.2 168	37 259 182	35 36.7 165	35 243 178	37 37.7 164	36 238 180
14	40 34.2 174	42 275 188	40 35.1 170	41 271 184	40 36.4 168	41 253 184
16	46 33.0 183	46 299 197	45 34.2 174	46 275 188	46 35.0 180	46 270 198
18	49 32.0 185	51 311 200	49 32.8 179	51 295 193	51 33.5 183	52 302 201
20	54 30.9 189	58 331 205	54 31.3 185	58 320 200	55 31.9 189	59 325 202
22	61 29.8 197	65 357 212	61 30.0 191	65 344 206	62 30.5 190	65 352 218
23	64 29.2 201	68 371 217	65 29.3 194	69 358 210	65 29.8 193	69 355 212

WEIGHT (1000 kg)	FL 90		FL 100		FL 110	
	SAT -3 °C		SAT -5 °C		SAT -7 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	35 38.2 165	36 244 186	37 39.9 160	35 227 181	37 41.0 167	35 221 192
14	39 36.9 171	40 261 193	40 38.3 164	40 242 186	40 39.2 171	40 238 196
16	44 35.6 175	45 278 198	43 36.5 169	45 262 191	43 37.4 173	46 258 199
18	49 34.2 181	52 298 204	49 34.8 176	52 286 199	49 35.4 179	53 284 206
20	55 32.9 187	59 322 212	56 33.1 182	59 312 206	56 33.7 187	59 309 214
22	62 31.5 194	66 349 220	62 31.5 187	66 336 212	61 32.0 192	66 340 221
23	64 30.8 196	69 359 221	64 30.7 190	69 349 215	64 31.2 194	70 350 222

15-A-156535-C-0117B-00054-A-01-1IÉö

Figure 5-4 (Sheet 13 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120		FL 130		FL 140	
	SAT -9 °C		SAT -11 °C		SAT -13 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	36	35	36	34	35	34
	41.1	237	43.1	212	42.3	231
	164	195	154	183	162	195
14	39	40	39	40	38	40
	39.8	248	41.0	231	40.8	242
	166	197	160	189	164	198
16	43	46	44	46	44	47
	38.1	265	38.8	253	39.0	262
	171	202	166	197	170	204
18	49	53	50	53	50	53
	36.5	288	36.7	279	37.2	286
	178	210	173	205	177	212
20	56	59	56	60	56	60
	34.8	314	34.8	303	35.4	310
	184	218	178	211	183	219
22	61	67	61	67	61	68
	33.2	335	32.9	330	33.7	331
	188	223	184	217	186	224
23	64	71	64	71	64	71
	32.4	346	32.0	345	32.9	343
	190	225	187	221	188	226

WEIGHT (1000 kg)	FL 150		FL 160		FL 170	
	SAT -15 °C		SAT -17 °C		SAT -19 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	34	34	34	34	33	34
	44.7	218	46.4	200	45.9	213
	157	195	149	186	155	196
14	38	40	38	40	38	41
	42.9	233	43.7	221	43.8	230
	161	200	156	194	160	202
16	44	47	44	47	44	47
	40.8	255	41.1	247	41.6	253
	168	208	164	203	167	210
18	50	53	50	53	50	54
	38.7	279	38.7	270	39.4	276
	174	216	169	209	173	218
20	56	60	55	61	56	61
	36.7	302	36.4	297	37.3	299
	179	222	174	216	177	223
22	61	68	61	68	62	68
	34.9	324	34.3	326	35.3	323
	182	226	180	224	181	228
23	64	71	65	71	65	71
	34.0	337	33.3	338	34.4	336
	185	229	182	225	183	231

15-A-156535-C-0117B-00055-A-01-1Éô

Figure 5-4 (Sheet 14 of 27) Long Range Cruise. 2 Engines

**LONG RANGE CRUISE
2 ENGINES ISA**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 180				FL 190				FL 200			
	SAT -21°C				SAT -23°C				SAT -25 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		34		33		34		33		35	
	48.2	205	49.5	193	49.4	202	50.5	190	50.6	198	51.6	188
	152	198	146	190	150	199	145	192	149	201	144	194
14	38		41		38		41		38		41	
	45.7	225	46.2	217	46.7	222	47.0	215	47.7	219	47.9	213
	158	206	154	201	157	208	153	203	155	209	151	204
16	44		47		44		47		44		47	
	43.2	247	43.2	240	44.0	244	43.9	238	44.8	241	44.6	236
	164	213	159	207	162	215	158	209	161	216	157	211
18	50		54		50		54		50		55	
	40.7	270	40.4	266	41.4	267	40.9	265	42.1	265	41.5	263
	169	220	165	215	167	221	164	217	166	223	162	219
20	56		61		56		62		56		61	
	38.4	294	37.8	294	39.0	292	38.2	293	39.5	290	38.7	290
	174	226	171	223	172	228	169	224	170	229	167	224
22	62		68		62		68		61		67	
	36.2	320	35.4	320	36.6	318	35.7	319	37.0	314	36.0	313
	178	231	174	226	176	233	172	228	173	233	167	225
23	65		71		63		69		61		66	
	35.1	334	34.2	334	35.6	325	34.6	324	36.1	313	34.8	312
	180	234	176	229	175	231	169	224	168	226	161	217

WEIGHT (1000 kg)	FL 210				FL 220				FL 230			
	SAT -27 °C				SAT -29 °C				SAT -31°C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	35		37		35		37		34		37	
	51.3	202	52.0	195	52.4	200	52.9	195	53.6	196	54.0	191
	151	207	148	203	151	210	148	206	149	211	146	207
14	39		41		38		41		38		41	
	48.6	218	48.7	211	49.5	215	49.5	209	50.4	212	50.4	207
	154	211	150	206	153	212	149	207	151	214	147	208
16	44		48		44		48		44		48	
	45.5	239	45.2	236	46.3	237	45.8	235	47.0	235	46.5	233
	159	218	156	213	158	219	155	215	156	221	153	217
18	50		55		50		55		50		55	
	42.7	264	42.0	263	43.2	262	42.5	262	43.8	260	42.9	260
	165	225	161	221	163	227	160	223	161	228	158	223
20	56		61		56		61		56		60	
	39.9	288	39.0	289	40.3	287	39.3	288	40.8	284	39.6	282
	168	230	165	225	167	232	163	226	164	232	158	224
22	59		64		57							
	37.5	303	36.3	302	37.8	292						
	166	228	160	219	159	221						
23	59											
	36.2	302										
	160	219										

15-A-156535-C-0117B-00056-A-01-1IÉö

Figure 5-4 (Sheet 15 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240		FL 250		FL 260	
	SAT -33 °C		SAT -35 °C		SAT -36°C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	34	36	33	36	33	35
	55.0	192	55.3	187	56.3	186
	146	211	143	206	143	210
14	38	41	38	42	39	43
	51.4	209	51.2	205	52.4	207
	149	215	146	210	148	216
16	44	49	44	49	44	49
	47.8	234	47.1	232	48.5	232
	155	223	152	219	154	225
18	50	55	50	55	50	54
	44.3	258	43.3	259	44.8	257
	159	229	156	224	157	230
19	53	58	52	55	50	
	42.6	272	41.4	273	43.2	263
	161	232	157	226	155	228
20	53	58	51			
	41.3	273	39.9	271	41.5	262
	156	225	150	216	148	217

WEIGHT (1000 kg)	FL 270		FL 280		FL 290	
	SAT -38 °C		SAT -40 °C		SAT -42°C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	34	36	37	40	36	39
	57.7	187	57.6	182	58.1	191
	143	216	138	209	147	226
14	40	43	40	43	39	42
	53.8	209	53.1	207	54.7	206
	148	225	145	220	146	225
16	44	49	44	48	44	48
	49.7	228	48.5	229	50.2	226
	149	227	146	222	147	227
17	47	52	47	50	45	
	47.6	241	46.1	243	47.9	239
	151	229	148	224	148	229
18	48	52	46			
	45.7	247	44.1	245	45.9	237
	148	225	142	216	141	218

15-A-156535-C-0117B-00057-A-01-1Éô

Figure 5-4 (Sheet 16 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE 2 ENGINES ISA

DATE: FEB. 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
 PROPELLERS: HS 568F-5

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL	300
	SAT	-44 °C
	CRZ 1	CRZ 2
12	36	39
	61.1	186
	142	227
13	37	40
	58.9	192
	141	226
14	39	42
	56.4	199
	141	225
15	41	45
	53.7	211
	141	226
16	43	47
	51.0	222
	142	227

15-A-156535-C-0117B-00058-A-01-1IÉò

Figure 5-4 (Sheet 17 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA +10°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL SAT +25 °C		FL 10 SAT +23 °C		FL 20 SAT +21 °C	
	CRZ 1		CRZ 2		CRZ 1	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	38	38	37	38	36	38
	29.5	303	31.0	278	30.4	293
	177	178	171	172	174	178
14	45	43	44	42	43	42
	28.9	328	30.1	295	29.7	320
	188	189	177	178	186	190
16	51	48	50	48	49	48
	28.2	351	29.2	316	28.9	342
	196	198	183	185	194	198
18	53	55	52	54	51	54
	27.6	360	28.4	339	28.3	351
	197	199	191	192	195	199
20	56	60	55	60	55	59
	27.0	371	27.5	359	27.6	363
	199	200	196	197	196	200
22	60	66	60	65	60	65
	26.2	388	26.6	378	26.8	382
	202	204	200	201	200	205
23	63	69	62	68	63	68
	25.8	397	26.1	389	26.4	392
	204	205	202	203	202	207

WEIGHT (1000 kg)	FL 30 SAT +19 °C		FL 40 SAT +17 °C		FL 50 SAT +15 °C	
	CRZ 1		CRZ 2		CRZ 1	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	35	37	34	37	33	37
	32.2	275	33.7	261	33.2	266
	168	177	167	176	165	177
14	43	42	37	42	41	41
	31.4	304	32.6	279	32.3	279
	181	191	173	182	169	180
16	48	47	47	47	46	46
	30.5	325	31.5	297	31.3	316
	188	198	178	188	185	198
18	50	53	50	53	49	52
	29.7	335	30.4	320	30.5	327
	189	199	185	194	186	199
20	55	59	54	58	54	58
	28.8	351	29.3	340	29.5	345
	192	202	189	199	191	204
22	60	65	60	65	61	66
	27.9	372	28.1	363	28.4	369
	197	208	194	204	197	210
23	63	69	64	69	65	70
	27.4	386	27.6	376	27.9	385
	201	211	197	207	201	215

15-A-156535-C-0117B-00059-A-01-1Éô

Figure 5-4 (Sheet 18 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 60 SAT +13 °C				FL 70 SAT +11 °C				FL 80 SAT +9 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		37		33		37		32		36	
	35.2	251	36.6	246	36.2	246	37.6	241	37.1	241	38.6	236
	161	177	164	180	159	178	162	181	158	179	160	182
14	42		41		42		41		41		40	
	34.0	286	35.3	261	34.8	282	36.2	256	35.7	276	37.1	251
	177	194	168	184	176	196	166	185	174	197	164	186
16	45		46		45		46		44		46	
	33.0	300	33.9	280	33.8	293	34.7	276	34.6	286	35.4	273
	180	198	173	190	177	198	172	192	175	198	170	193
18	49		52		49		52		49		52	
	31.9	314	32.5	302	32.6	310	33.1	298	33.3	305	33.8	294
	182	200	179	196	181	202	177	198	180	204	175	199
20	55		59		55		59		56		60	
	30.7	337	31.0	326	31.3	335	31.6	324	32.0	333	32.1	322
	188	207	184	203	188	210	184	205	188	213	183	207
22	62		66		63		67		63		67	
	29.5	366	29.6	355	30.0	364	30.1	352	30.6	361	30.6	350
	197	216	191	210	196	219	190	212	195	221	189	214
23	66		70		66		70		65		71	
	28.9	381	29.0	369	29.4	376	29.4	366	30.0	371	29.9	364
	200	220	194	214	199	222	193	216	196	223	192	218

WEIGHT (1000 kg)	FL 90 SAT +7 °C				FL 100 SAT +5 °C				FL 110 SAT +3 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		36		34		36		35		35	
	38.2	239	39.6	231	39.2	241	40.7	225	40.2	238	41.8	221
	158	182	159	183	161	189	157	184	161	192	155	184
14	41		40		40		40		39		40	
	36.7	269	38.0	246	37.7	262	38.9	242	38.7	256	39.8	239
	171	197	163	187	169	198	161	189	167	198	160	190
16	44		46		43		46		43		46	
	35.5	281	36.2	269	36.4	275	37.0	265	37.2	271	37.7	262
	173	199	169	195	171	200	168	196	170	202	167	198
18	49		52		49		53		50		53	
	34.1	302	34.5	290	34.8	299	35.1	288	35.5	298	35.7	287
	179	206	174	200	178	208	173	202	178	211	173	205
20	56		60		57		60		57		61	
	32.6	331	32.7	320	33.2	329	33.3	318	33.8	325	33.8	315
	187	216	182	209	187	218	181	212	185	220	180	213
22	62		67		62		67		62		68	
	31.2	356	31.1	347	31.8	350	31.6	344	32.3	346	32.1	343
	193	222	188	216	191	223	186	218	189	224	185	220
23	65		71		65		71		65		71	
	30.5	366	30.4	361	31.1	361	30.8	359	31.6	358	31.2	356
	194	224	191	219	192	225	189	221	191	226	188	223

15-A-156535-C-0117B-00060-A-01-1IE0

Figure 5-4 (Sheet 19 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA +10°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120		FL 130		FL 140	
	SAT +1 °C		SAT -1 °C		SAT -3 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	35	35	35	35	34	35
	41.3	234	42.8	216	42.3	230
	160	193	153	185	159	195
14	39	40	38	40	38	40
	39.7	250	40.7	236	40.6	245
	164	198	159	192	163	199
16	43	47	44	47	44	47
	38.0	268	38.4	259	38.8	266
	169	204	165	199	168	206
18	50	54	51	54	51	54
	36.2	296	36.3	285	36.9	293
	178	214	172	207	177	216
20	56	61	56	61	56	61
	34.5	320	34.4	312	35.1	316
	183	221	178	215	181	222
22	62	68	62	68	62	68
	32.9	342	32.5	341	33.4	339
	187	225	184	221	185	227
23	65	72	65	72	64	71
	32.1	354	31.7	354	32.6	352
	189	227	186	224	187	229

WEIGHT (1000 kg)	FL 150		FL 160		FL 170	
	SAT -5 °C		SAT -7 °C		SAT -9 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	34	34	33	35	33	35
	44.7	220	46.1	204	45.8	215
	155	196	149	188	153	197
14	38	41	38	41	39	41
	42.7	237	43.3	228	43.6	235
	160	202	156	197	159	205
16	44	47	45	47	45	48
	40.5	261	40.7	253	41.3	259
	167	212	163	206	167	214
18	51	54	50	54	50	55
	38.4	286	38.3	277	39.0	282
	173	219	168	212	172	221
20	56	62	56	62	56	62
	36.4	308	35.9	307	36.9	306
	177	224	174	220	176	226
22	62	69	61	67	59	66
	34.5	333	33.9	334	35.0	326
	182	230	179	226	178	228
23	62	69	61	67	59	65
	33.8	334	33.0	336	34.2	325
	178	225	175	222	173	222

15-A-156535-C-0117B-00061-A-01-1Éô

Figure 5-4 (Sheet 20 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW127G **FLAPS:** UP (0°)
PROPELLERS: HS 568F-5 **ENGINE A/I:** OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 180				FL 190				FL 200			
	SAT -11°C				SAT -13°C				SAT -15 °C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	33		35		33		35		33		35	
	48.0	208	49.0	198	49.2	204	50.1	195	50.4	201	51.1	193
	150	199	146	194	149	201	144	195	147	203	143	197
14	39		41		39		42		39		42	
	45.4	230	45.7	223	46.4	227	46.5	220	47.4	225	47.4	218
	157	209	153	203	156	211	152	205	155	213	150	207
16	45		48		45		48		45		48	
	42.8	254	42.7	246	43.6	251	43.4	244	44.4	248	44.0	243
	164	218	158	210	162	219	157	212	160	220	156	214
18	50		55		50		56		50		56	
	40.4	276	39.8	275	41.0	274	40.4	274	41.6	272	40.9	272
	168	223	165	219	166	224	164	221	165	226	162	222
20	57		62		57		62		55		61	
	38.0	302	37.3	302	38.5	301	37.7	301	39.2	292	38.2	292
	173	230	169	225	172	232	168	227	167	229	162	223
22	58		64		56		62		54			
	36.1	308	35.1	309	36.5	299	35.4	299	36.7	290		
	167	222	163	217	161	218	157	212	155	213		
23	57											
	35.0	307										
	161	215										

WEIGHT (1000 kg)	FL 210				FL 220				FL 230			
	SAT -17 °C				SAT -19 °C				SAT -21°C			
	CRZ 1		CRZ 2		CRZ 1		CRZ 2		CRZ 1		CRZ 2	
12	35		37		36		39		35		39	
	50.9	208	51.3	200	51.9	207	52.0	204	53.1	203	53.1	200
	152	212	147	206	151	215	149	212	149	216	147	212
14	40		42		39		42		39		42	
	48.1	225	48.0	219	49.1	221	48.8	216	50.0	217	49.7	212
	155	216	151	210	153	217	149	211	151	218	146	211
16	45		49		44		49		45		49	
	45.1	245	44.6	243	45.9	243	45.2	243	46.6	241	45.8	241
	159	221	155	217	157	223	154	219	155	224	153	220
18	51		56		51		56		50		55	
	42.2	271	41.4	270	42.7	270	41.8	269	43.4	263	42.3	263
	164	229	160	224	163	231	158	225	158	228	154	223
19	54		59		52		56		49		54	
	40.8	283	39.9	283	41.5	272	40.4	272	42.1	262	40.8	262
	166	231	162	226	159	226	155	220	152	220	148	214
20	53		58		51		56					
	39.8	282	38.6	282	40.2	271	38.9	271				
	160	224	156	218	153	218	148	211				
21	53											
	38.4	280										
	154	216										

15-A-156535-C-0117B-00062-A-01-1IÉo

Figure 5-4 (Sheet 21 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA +10°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240		FL 250		FL 260		
	SAT -23 °C	CRZ 1	SAT -25 °C	CRZ 1	CRZ 2	SAT -26 °C	CRZ 2
12	35	38	34	37	34	36	
	54.4	199	54.3	195	55.6	190	56.6
	147	216	144	212	144	216	141
14	39	42	39	42	40	44	
	51.0	214	50.5	211	51.2	211	52.4
	149	219	145	213	147	219	148
16	45	49	45	49	45	49	
	47.3	239	46.4	239	47.9	238	48.5
	154	226	150	221	152	228	151
17	48	52	46	50	45	49	
	45.5	253	44.4	252	46.3	243	46.9
	157	230	153	224	151	225	146
18	48	52	46				
	44.1	253	42.9	252	44.6	242	
	152	223	147	216	144	216	
19	47						
	42.4	251					
	145	213					

WEIGHT (1000 kg)	FL 270		FL 280		FL 290		
	SAT -28 °C	CRZ 1	SAT -30 °C	CRZ 1	CRZ 2	SAT -32 °C	CRZ 2
12	34	36	37	40	37	40	
	57.2	190	56.8	185	57.8	199	57.2
	141	218	136	211	146	230	143
14	40	44	40	44	40	43	
	53.1	215	52.2	215	54.0	213	53.0
	148	228	145	224	146	230	142
16	44	48	42	46	41		
	49.3	230	47.9	229	49.9	222	48.4
	146	226	141	219	141	222	135
17	43						
	47.3	228					
	139	216					

WEIGHT (1000 kg)	FL 300			
	SAT -34 °C			
	CRZ 1		CRZ 2	
12	36		40	
	60.2	192	59.4	192
	142	231	139	228
14	39		43	
	55.7	206	54.2	206
	140	229	136	223
15	40		43	
	53.3	209	51.6	207
	136	222	130	213

15-A-156535-C-0117B-00063-A-01-1Éô

Figure 5-4 (Sheet 22 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA +20°C

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL SL		FL 10		FL 20	
	SAT +35 °C		SAT +33 °C		SAT +31 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	42	38	41	38	40	38
	29.4	321	30.2	313	31.1	305
	184	189	182	189	180	189
14	47	43	46	43	45	43
	28.8	340	29.6	332	30.4	324
	191	195	176	180	187	197
16	50	48	49	48	48	48
	28.2	353	29.1	320	29.7	336
	195	199	182	187	189	199
18	53	56	52	56	51	55
	27.6	364	28.2	349	29.0	347
	196	201	192	196	191	201
20	56	61	55	61	55	60
	26.9	375	27.3	367	28.1	362
	197	202	196	200	193	204
22	60	66	60	66	60	66
	26.2	393	26.4	385	27.2	384
	201	206	199	203	198	209
23	63	69	63	69	63	70
	25.7	404	26.0	396	26.7	396
	203	208	201	206	201	212

WEIGHT (1000 kg)	FL 30		FL 40		FL 50	
	SAT +29 °C		SAT +27 °C		SAT +25 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	40	38	39	38	38	37
	32.0	296	33.0	289	34.0	281
	177	190	175	190	173	191
14	45	42	44	42	43	41
	31.2	316	32.1	306	33.1	297
	184	197	181	197	178	197
16	47	48	46	48	45	48
	30.5	327	31.3	304	32.2	309
	186	199	178	191	180	199
18	50	55	49	54	49	54
	29.7	338	30.4	330	31.1	323
	188	201	185	198	183	201
20	55	60	55	59	55	59
	28.8	356	29.4	350	30.0	346
	191	205	190	206	188	207
22	61	66	61	67	62	68
	27.7	380	28.3	377	28.8	375
	197	211	196	213	196	216
23	64	70	65	71	66	71
	27.2	394	27.7	392	28.2	391
	200	214	200	217	200	221

15-A-156535-C-0117B-00064-A-01-1IE6

Figure 5-4 (Sheet 23 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA +20°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5 FLAPS: UP (0°)
 ENGINE A/I: OFF

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL 60		FL 70		FL 80	
	SAT +23 °C		SAT +21 °C		SAT +19 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	38	37	37	37	37	36
	34.9	274	36.4	249	35.9	268
	171	192	162	182	169	193
14	42	41	41	41	41	41
	33.9	291	35.1	265	34.8	284
	176	197	166	186	174	197
16	45	48	44	47	44	47
	33.0	302	33.6	289	33.7	296
	178	199	174	194	175	199
18	49	53	49	53	49	53
	31.8	319	32.2	311	32.5	315
	181	203	179	200	180	204
20	55	59	56	60	57	61
	30.6	344	30.8	334	31.1	342
	188	210	184	205	188	213
22	63	68	63	68	63	69
	29.3	374	29.4	366	29.8	370
	196	219	192	215	195	221
23	66	72	65	72	64	72
	28.7	386	28.7	380	29.3	380
	198	222	195	218	196	223

WEIGHT (1000 kg)	FL 90		FL 100		FL 110	
	SAT +17 °C		SAT +15 °C		SAT +13 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	37	36	36	35	36	35
	37.9	256	39.4	233	38.9	251
	166	194	157	184	164	196
14	40	41	39	41	39	41
	36.7	270	37.7	252	37.6	263
	169	198	162	190	166	198
16	44	47	44	47	44	47
	35.3	285	35.9	276	36.1	280
	172	201	169	198	170	202
18	49	53	50	53	51	54
	33.9	308	34.1	298	34.5	307
	178	208	174	203	178	212
20	57	61	57	62	57	62
	32.3	339	32.4	330	32.9	335
	187	219	182	213	186	221
22	63	69	61	68	60	67
	30.9	361	30.8	358	31.6	351
	191	223	188	220	187	222
23	62	70	61	68	60	67
	30.5	360	30.2	363	31.0	351
	187	220	187	219	183	218

15-A-156535-C-0117B-00065-A-01-1IÉô

Figure 5-4 (Sheet 24 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA +20°C**

DATE: FEB. 2000 AIRCRAFT: C-295M
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G
 PROPELLERS: HS 568F-5

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 120		FL 130		FL 140	
	SAT +11 °C		SAT +9 °C		SAT +7 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	35	35	35	35	34	35
	41.1	240	42.5	219	42.2	233
	160	197	152	186	158	197
14	38	41	38	41	38	41
	39.5	252	40.3	241	40.5	248
	162	199	158	194	161	200
16	44	47	44	48	45	48
	37.7	274	38.0	266	38.5	272
	168	207	165	202	168	210
18	51	55	52	55	51	55
	35.9	304	35.9	294	36.5	301
	177	218	172	211	176	220
20	57	62	57	62	56	62
	34.2	326	33.9	323	34.8	322
	182	223	179	219	180	224
22	59	65	57	64	56	62
	32.8	334	32.4	336	33.3	325
	178	219	177	217	174	217
23	58	65	57	63	56	62
	32.0	333	31.6	335	32.5	324
	174	213	172	211	169	211
				167	208	163
				167	208	161
				208	207	204

WEIGHT (1000 kg)	FL 150		FL 160		FL 170	
	SAT +5 °C		SAT +3 °C		SAT +1 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	33	35	33	35	33	35
	44.6	221	45.7	209	45.7	217
	153	197	148	191	151	198
14	38	41	39	41	39	42
	42.5	240	42.9	231	43.3	239
	158	204	154	198	158	207
16	45	48	46	48	46	48
	40.2	269	40.2	260	40.9	267
	168	216	162	209	167	218
18	51	55	51	56	51	56
	38.0	292	37.8	287	38.7	288
	172	222	168	217	170	223
20	55	61	53	60	52	58
	36.2	309	35.6	311	36.8	300
	173	223	172	221	168	220
21	55	61	53	59	52	57
	35.3	308	34.7	310	35.8	299
	169	218	167	215	163	214
22	55	61	53	59		
	34.4	307	33.7	309	34.6	298
	164	211	161	208	157	206
				206	202	
				202		

15-A-156535-C-0117B-00066-A-01-1IÉö

Figure 5-4 (Sheet 25 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES **ISA +20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF

		TQ %	
		NM/100kg	Kg/h/mot
		IAS	TAS

WEIGHT (1000 kg)	FL 180		FL 190		FL 200	
	SAT -1°C		SAT -3°C		SAT -5 °C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	33	35	33	35	33	35
	47.9	209	48.6	202	49.0	206
	148	200	145	196	147	202
14	39	42	39	42	39	42
	45.1	235	45.2	228	46.0	233
	157	212	152	206	156	214
16	45	49	45	49	45	49
	42.4	260	42.2	254	43.2	257
	163	221	158	214	161	222
18	51	56	49	55	48	53
	39.9	283	39.3	284	40.7	274
	167	226	165	223	162	223
19	51	56	49	54	47	52
	39.0	282	38.3	284	39.6	273
	162	220	160	217	157	216
20	50	56	49	54		
	37.9	281	37.1	283	38.2	272
	157	213	155	210	151	208

WEIGHT (1000 kg)	FL 210		FL 220		FL 230	
	SAT -7 °C		SAT -9 °C		SAT -11°C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
12	34	37	34	37	34	37
	51.0	207	51.2	202	52.0	204
	148	211	145	206	147	213
14	40	42	39	42	39	43
	47.8	228	47.6	221	48.7	225
	153	218	148	211	152	219
15	42	46	42	46	42	46
	46.2	240	45.8	236	47.0	237
	156	221	151	216	154	223
16	45	50	45	50	45	49
	44.7	251	44.0	251	45.4	249
	158	224	155	220	156	226
17	47	52	46	50	44	49
	43.3	258	42.5	259	44.1	251
	157	224	155	220	153	221
18	46	51	45	50	44	
	42.1	257	41.2	258	42.6	250
	152	216	149	213	147	213
19	46					
	40.5	256				
	145	207				

15-A-156535-C-0117B-00067-A-01-1Éô

Figure 5-4 (Sheet 26 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE
2 ENGINES ISA +20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **FLAPS:** UP (0°)
PROPELLERS: HS 568F-5 **ENGINE A/I:** OFF

TQ %	NM/100kg	Kg/h/mot
IAS	TAS	

WEIGHT (1000 kg)	FL 240 SAT -13 °C		FL 250 SAT -15 °C		FL 260 SAT -16°C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
	34 54.4 143	36 54.2 139	34 55.6 141	36 55.3 137	34 56.1 140	36 55.6 136
12	197	192	194	189	194	190
14	215	208	216	209	218	211
15						
16						
17						

WEIGHT (1000 kg)	FL 270 SAT -18 °C		FL 280 SAT -20 °C		FL 290 SAT -22°C	
	CRZ 1	CRZ 2	CRZ 1	CRZ 2	CRZ 1	CRZ 2
	34 56.6 140	37 55.9 136	37 57.2 144	39 56.3 139	38 58.4 144	41 57.3 142
12	195	192	202	199	202	202
14	221	215	231	224	236	232
15						
16						

WEIGHT (1000 kg)	FL 300 SAT -24 °C			
	CRZ 1		CRZ 2	
	36 59.9 139	39 58.7 137	36 58.0 134	39 56.5 131
12	194	194	232	228
13				
14				

15-A-156535-C-0117B-00068-A-01-1IÉö

Figure 5-4 (Sheet 27 of 27) Long Range Cruise. 2 Engines

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA -20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL SAT -5 °C	FL 10 SAT -7 °C	FL 20 SAT -9 °C	FL 30 SAT -11 °C	FL 40 SAT -13 °C	FL 50 SAT -15 °C
12	48 38.6 363 147 140	48 39.6 355 145 141	47 40.7 346 143 141	46 41.8 339 142 142	46 43.0 331 141 142	45 44.2 324 139 143
14	53 37.9 381 151 144	53 38.8 375 150 146	53 39.7 370 149 147	53 40.7 364 149 148	53 41.6 359 148 149	53 42.7 354 147 151
16	58 36.8 402 155 148	58 37.6 397 154 149	58 38.4 393 153 151	58 39.2 388 152 152	58 40.0 383 151 153	58 40.9 378 151 155
18	66 35.2 437 161 154	66 35.9 434 161 156	67 36.6 430 160 157	67 37.3 427 159 159	68 38.0 424 159 161	69 38.7 423 160 164
20	76 33.7 478 168 161	77 34.3 476 169 163	77 34.9 475 168 166	78 35.5 472 168 168	79 36.1 470 168 170	79 36.8 466 167 171
22	87 32.3 524 177 169	87 32.8 520 176 171	87 33.3 516 175 172	87 33.9 511 174 173	88 34.4 507 173 175	88 35.0 503 172 176
23	91 31.6 543 180 172	91 32.1 538 178 173	91 32.6 534 177 174	92 33.1 531 176 176	92 33.6 527 175 177	93 34.1 525 174 179

WEIGHT (1000 kg)	FL 60 SAT -17 °C	FL 70 SAT -19 °C	FL 80 SAT -21 °C	FL 90 SAT -23 °C	FL 100 SAT -25 °C	FL 110 SAT -27 °C
12	45 45.3 319 139 145	45 46.4 315 138 146	45 47.6 310 138 148	45 48.7 306 137 149	46 50.0 302 136 151	46 51.1 298 136 152
14	53 43.6 349 146 152	53 44.6 345 145 154	53 45.5 340 144 155	53 46.5 336 143 156	53 47.6 331 142 158	53 48.5 327 141 159
16	59 41.7 375 150 156	59 42.4 373 149 158	60 43.2 371 149 160	61 44.0 370 149 163	61 44.8 368 149 165	62 45.5 368 149 167
18	70 39.4 422 160 166	71 40.0 421 159 168	71 40.7 418 158 170	71 41.4 414 157 171	71 42.1 410 156 173	71 42.7 407 155 174
20	79 37.4 462 166 173	80 37.9 459 165 174	80 38.5 456 163 176	80 39.0 454 162 177	81 39.5 452 161 179	81 39.9 451 160 180
22	88 35.4 501 170 178	89 35.8 500 169 179	89 36.2 499 168 181	90 36.5 500 167 182	91 36.8 501 167 184	92 36.9 504 166 186
23	93 34.4 524 173 180	94 34.7 524 172 182	94 35.0 525 171 184	95 35.2 527 170 185	96 35.4 530 169 187	97 35.4 535 169 189

15-A-156535-C-0117B-00069-A-01-1Éô

Figure 5-5 (Sheet 1 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA -20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

		TQ %	NM/100kg	Kg/h/mot
		IAS	TAS	

WEIGHT (1000 kg)	FL 120 SAT -29 °C	FL 130 SAT -31°C	FL 140 SAT -33 °C	FL 150 SAT -35 °C	FL 160 SAT -37 °C	FL 170 SAT -39 °C
12	46 52.3 294 135 154	46 53.5 290 134 155	46 54.8 286 133 156	45 56.0 281 132 157	45 57.1 277 130 158	45 58.2 275 130 160
14	53 49.5 323 140 160	53 50.4 321 140 162	54 51.3 320 139 164	54 52.2 319 139 166	55 52.9 319 139 169	55 53.7 317 138 170
16	63 46.2 367 149 170	63 47.0 364 148 171	63 47.8 361 147 173	63 48.5 359 146 174	64 49.0 358 144 175	64 49.4 358 144 177
18	72 43.3 406 154 176	72 43.8 405 153 177	73 44.2 404 152 179	73 44.6 405 151 181	74 44.8 408 151 183	75 44.9 411 150 184
20	82 40.2 452 159 182	82 40.4 454 159 184	83 40.6 458 158 186	84 40.6 462 157 187	85 40.5 468 156 189	84 40.5 467 153 189
22	93 37.0 509 165 188	93 36.9 514 164 190	94 36.9 517 162 191			

WEIGHT (1000 kg)	FL 180 SAT -41 °C	FL 190 SAT -43 °C	FL 200 SAT -45 °C	FL 210 SAT -47 °C	FL 220 SAT -49 °C	FL 230 SAT -51 °C
12	46 59.2 273 129 162	46 60.2 272 129 164	47 61.2 272 129 167	47 62.1 272 128 169	47 63.0 270 127 170	47 63.8 268 126 171
14	55 54.5 315 137 172	55 55.3 313 136 173	56 55.9 312 135 174	56 56.3 313 134 176	57 56.6 315 133 178	58 56.8 318 133 181
16	65 49.8 359 143 179	65 50.0 362 142 181	66 50.2 364 141 183	66 50.3 367 140 184	67 50.1 371 139 186	68 49.7 378 138 188
18	75 44.9 414 149 186	76 44.7 420 148 188	76 44.6 421 145 188			
19	81 42.4 447 151 190	78 42.4 435 145 184				

15-A-156535-C-0117B-00070-A-01-1IÉö

Figure 5-5 (Sheet 2 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

TQ %		
NM/100kg	Kg/h/mot	
IAS	TAS	

WEIGHT (1000 kg)	FL SL SAT +5 °C	FL 10 SAT +3 °C	FL 20 SAT +1 °C	FL 30 SAT -1 °C	FL 40 SAT -3 °C	FL 50 SAT -5 °C
12	48	48	47	46	46	46
	38.7 365	39.7 358	40.8 350	41.9 343	43.0 336	44.2 329
	145 141	144 142	143 143	141 144	140 144	139 145
14	53	53	53	53	53	53
	37.9 386	38.8 380	39.7 375	40.6 370	41.6 365	42.6 359
	150 146	150 148	149 149	148 150	147 152	146 153
16	58	58	59	59	59	59
	36.7 408	37.5 403	38.3 398	39.1 394	39.9 389	40.8 384
	154 150	153 151	152 153	151 154	150 155	150 157
18	67	67	68	68	69	70
	35.1 445	35.8 442	36.4 438	37.1 436	37.8 435	38.5 434
	161 156	160 158	159 160	159 162	160 165	160 167
20	77	78	79	80	80	80
	33.5 490	34.1 489	34.7 487	35.3 484	35.9 480	36.6 476
	169 164	169 167	169 169	168 171	167 172	166 174
22	88	88	88	89	89	90
	32.1 535	32.6 530	33.1 526	33.7 522	34.2 519	34.7 516
	176 172	175 173	174 174	173 176	172 177	171 179
23	92	93	93	93	94	95
	31.4 554	31.9 549	32.4 545	32.8 542	33.3 540	33.8 539
	179 174	177 175	176 177	175 178	174 180	174 182

WEIGHT (1000 kg)	FL 60 SAT -7 °C	FL 70 SAT -9 °C	FL 80 SAT -11 °C	FL 90 SAT -13 °C	FL 100 SAT -15 °C	FL 110 SAT -17 °C
12	46	46	46	46	46	46
	45.3 325	46.4 321	47.6 316	48.8 311	50.0 306	51.2 301
	139 147	138 149	138 150	137 152	136 153	135 154
14	53	53	52	52	52	53
	43.6 354	44.5 349	45.5 343	46.5 337	47.5 333	48.3 332
	145 154	144 155	143 156	141 157	140 158	140 160
16	59	60	61	62	63	64
	41.5 382	42.2 381	42.9 382	43.7 382	44.4 381	45.2 378
	149 158	149 161	150 164	150 167	150 169	149 171
18	71	72	72	72	73	73
	39.1 433	39.8 430	40.5 426	41.2 423	41.8 421	42.4 419
	160 170	159 171	158 173	157 174	156 176	155 178
20	81	81	81	81	82	82
	37.1 473	37.7 470	38.2 466	38.7 464	39.2 462	39.5 463
	165 176	164 177	163 178	162 180	161 181	160 183
22	90	91	91	92	92	93
	35.1 514	35.5 513	35.9 512	36.1 513	36.3 516	36.4 520
	170 181	169 182	168 184	167 186	166 187	165 189
23	95	96	96	97	98	97
	34.1 537	34.4 537	34.6 539	34.8 542	34.9 546	35.0 540
	173 183	171 185	171 187	170 189	169 190	165 189

15-A-156535-C-0117B-00071-A-01-1Éô

Figure 5-5 (Sheet 3 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA -10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

WEIGHT (1000 kg)	FL 120		FL 130		FL 140		FL 150		FL 160		FL 170	
	SAT	-19 °C	SAT	-21 °C	SAT	-23 °C	SAT	-25 °C	SAT	-27 °C	SAT	-29 °C
12	46		45		45		45		46		46	
	52.4	297	53.6	292	54.8	287	55.9	283	56.9	283	57.9	282
	134	155	132	156	131	157	130	159	130	161	129	163
14	53		54		55		56		56		56	
	49.1	331	50.0	331	50.9	331	51.8	328	52.7	326	53.4	324
	140	163	140	166	140	168	139	170	138	172	137	173
16	64		64		65		65		65		65	
	46.0	375	46.7	373	47.4	371	48.1	368	48.6	367	49.0	367
	148	172	147	174	146	176	145	177	144	179	143	180
18	73		73		74		74		75		76	
	43.0	416	43.5	414	43.9	414	44.1	416	44.2	419	44.2	424
	154	179	152	180	151	182	150	183	150	185	149	188
20	83		84		85		85		82			
	39.8	465	39.9	468	40.0	472	40.0	475	40.1	458		
	159	185	158	187	157	189	156	190	148	184		
21	89		89		88							
	38.1	494	38.1	499	38.3	491						
	162	188	161	190	157	188						
22	94		91									
	36.4	524	36.7	506								
	164	191	157	186								

WEIGHT (1000 kg)	FL 180		FL 190		FL 200		FL 210		FL 220		FL 230	
	SAT	-31 °C	SAT	-34 °C	SAT	-35 °C	SAT	-37 °C	SAT	-39 °C	SAT	-41 °C
12	47		47		48		48		48		48	
	58.8	282	59.8	281	60.9	279	61.8	277	62.7	276	63.5	275
	129	166	129	168	128	170	127	171	126	173	125	174
14	56		57		57		57		58		58	
	54.2	323	54.8	322	55.4	321	55.8	321	56.1	323	56.2	325
	137	175	136	176	134	178	133	179	133	181	132	183
16	66		66		67		68		67			
	49.3	369	49.5	371	49.5	375	49.4	381	49.5	374		
	142	182	141	184	141	186	140	188	135	185		
18	77		74									
	44.1	430	44.3	414								
	148	190	141	183								

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Figure 5-5 (Sheet 4 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL SAT +15 °C	FL 10 SAT +13 °C	FL 20 SAT +11 °C	FL 30 SAT +9 °C	FL 40 SAT +7 °C	FL 50 SAT +5 °C
12	48	48	47	47	47	47
	38.7 369	39.8 362	40.8 355	41.9 348	43.0 342	44.2 336
	144 143	143 144	142 145	141 146	140 147	139 149
14	54	54	53	53	53	53
	37.9 391	38.8 386	39.7 379	40.6 374	41.6 368	42.6 362
	150 148	149 149	148 151	147 152	146 153	145 154
16	59	59	59	59	59	60
	36.6 415	37.4 410	38.1 404	38.9 400	39.7 396	40.5 392
	153 152	152 153	151 154	150 156	150 157	149 159
18	68	68	69	70	72	72
	34.9 454	35.6 451	36.2 450	36.9 450	37.5 448	38.2 447
	160 159	160 160	160 163	160 166	160 168	160 171
20	79	80	81	81	81	82
	33.3 503	33.9 502	34.5 498	35.1 494	35.7 490	36.3 486
	169 168	169 170	168 172	167 173	166 175	166 177
22	89	89	89	90	90	91
	31.9 544	32.4 540	32.9 536	33.4 532	33.9 529	34.4 527
	175 174	174 175	173 176	172 178	171 180	170 181
23	93	94	94	94	95	96
	31.2 564	31.7 560	32.1 556	32.6 554	33.0 552	33.4 551
	178 176	176 177	175 179	174 180	173 182	173 184

WEIGHT (1000 kg)	FL 60 SAT +3 °C	FL 70 SAT +1 °C	FL 80 SAT -1 °C	FL 90 SAT -3 °C	FL 100 SAT -5 °C	FL 110 SAT -7 °C
12	47	46	46	46	46	45
	45.3 331	46.5 325	47.6 319	48.8 314	50.1 308	51.2 303
	139 150	138 151	137 152	135 153	134 154	133 155
14	53	52	52	52	53	54
	43.5 357	44.5 350	45.4 344	46.3 342	47.1 341	47.9 342
	143 155	142 156	140 156	140 158	140 161	140 164
16	61	62	64	64	64	65
	41.2 392	41.9 394	42.6 395	43.3 394	44.2 389	44.9 387
	149 162	150 165	151 168	151 170	150 172	149 174
18	72	73	73	74	74	74
	38.9 442	39.5 439	40.2 437	40.9 433	41.5 429	42.1 428
	159 172	158 174	157 176	156 177	155 178	154 180
20	82	82	82	83	83	84
	36.9 482	37.4 479	37.9 477	38.4 475	38.8 475	39.0 476
	164 178	163 179	162 181	161 183	160 184	159 186
22	91	92	93	93	94	91
	34.8 526	35.2 526	35.5 526	35.7 528	35.8 530	36.2 513
	169 183	168 185	167 187	166 188	165 190	159 185
23	97	97	98	97	93	
	33.7 551	34.0 553	34.2 555	34.5 547	34.6 528	
	172 186	171 188	170 190	166 188	159 183	

15-A-156535-C-0117B-00073-A-01-1Éô

Figure 5-5 (Sheet 5 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

WEIGHT (1000 kg)	FL 120		FL 130		FL 140		FL 150		FL 160		FL 170	
	SAT	-9 °C	SAT	-11 °C	SAT	-13 °C	SAT	-15 °C	SAT	-17 °C	SAT	-19 °C
12	45		45		45		46		47		48	
	52.3	297	53.4	293	54.5	291	55.5	291	56.5	291	57.4	291
	131	156	130	157	130	159	130	161	130	164	130	167
14	55		56		56		56		57		57	
	48.7	343	49.6	342	50.5	339	51.5	336	52.3	334	53.0	332
	141	167	141	170	140	171	139	173	138	175	137	176
16	65		65		65		66		66		67	
	45.6	385	46.4	382	47.1	379	47.7	377	48.1	377	48.5	378
	148	176	147	177	146	178	145	180	144	182	143	183
18	74		75		75		76		77		74	
	42.6	427	43.0	426	43.3	426	43.5	429	43.6	433	43.9	422
	153	182	152	183	151	185	150	187	149	188	144	185
19	79		80		81		80					
	40.9	451	41.2	452	41.3	456	41.6	451				
	156	185	155	186	154	188	151	188				
20	85		85		82							
	39.2	479	39.3	482	39.7	465						
	158	188	157	190	151	185						
21	88											
	37.7	497										
	158	188										

WEIGHT (1000 kg)	FL 180		FL 190		FL 200		FL 210		FL 220		FL 230	
	SAT	-21 °C	SAT	-23 °C	SAT	-25 °C	SAT	-27 °C	SAT	-29 °C	SAT	-31 °C
12	48		48		48		49		49		49	
	58.4	290	59.5	287	60.5	285	61.4	284	62.3	282	63.0	281
	130	169	129	171	128	173	127	174	126	176	125	177
14	57		57		58		58		58		59	
	53.8	330	54.4	329	54.9	329	55.2	330	55.4	332	55.4	336
	136	177	135	179	134	180	133	182	132	184	131	186
16	67		68		67							
	48.7	379	48.7	383	48.9	381						
	142	185	141	187	138	186						
17	72		69									
	46.0	408	46.2	394								
	144	188	137	182								

15-A-156535-C-0117B-00074-A-01-1IÉö

Figure 5-5 (Sheet 6 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE
ISA +10°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL SAT +25 °C	FL 10 SAT +23 °C	FL 20 SAT +21 °C	FL 30 SAT +19 °C	FL 40 SAT +17 °C	FL 50 SAT +15 °C
12	49	48	48	48	47	47
	38.7 375	39.8 368	40.8 361	41.9 354	43.1 346	44.3 339
	144 145	143 146	142 147	141 148	139 149	138 150
14	54	54	53	53	53	52
	37.8 398	38.7 391	39.6 384	40.6 377	41.5 371	42.5 364
	149 150	148 151	147 152	145 153	144 154	142 154
16	60	60	60	60	61	62
	36.5 423	37.2 418	37.9 414	38.7 411	39.4 408	40.1 409
	153 155	152 156	151 157	151 159	150 161	151 164
18	69	70	71	72	73	73
	34.8 465	35.4 464	36.0 463	36.7 461	37.3 458	38.0 454
	161 162	161 164	161 167	161 169	160 171	159 172
20	80	81	81	81	82	82
	33.2 512	33.8 508	34.4 505	34.9 501	35.5 497	36.0 494
	169 170	168 172	167 173	166 175	165 176	164 178
22	89	89	90	91	91	92
	31.8 551	32.3 548	32.7 545	33.2 543	33.6 541	34.0 540
	174 175	173 177	172 178	171 180	170 182	169 184
23	94	94	95	96	97	98
	31.1 571	31.5 569	31.9 568	32.3 567	32.7 567	33.0 567
	176 178	175 179	174 181	174 183	173 185	172 187

WEIGHT (1000 kg)	FL 60 SAT +13 °C	FL 70 SAT +11 °C	FL 80 SAT +9 °C	FL 90 SAT +7°C	FL 100 SAT +5 °C	FL 110 SAT +3 °C
12	47	46	46	45	45	45
	45.4 333	46.5 327	47.7 321	48.8 315	50.0 308	51.1 304
	137 151	136 152	135 153	133 154	132 154	130 155
14	52	52	53	54	55	56
	43.4 359	44.2 356	45.0 354	45.8 354	46.7 355	47.5 355
	141 155	141 157	140 159	141 162	142 166	142 169
16	64	65	65	65	65	66
	40.8 410	41.5 408	42.3 405	43.1 401	43.9 398	44.6 394
	152 167	152 170	151 171	150 173	149 174	148 176
18	73	73	74	74	74	75
	38.7 450	39.3 447	39.9 444	40.5 441	41.1 439	41.6 439
	158 174	157 176	156 177	155 179	154 180	153 182
20	83	83	84	84	85	85
	36.5 492	37.0 490	37.5 490	37.9 490	38.2 491	38.6 486
	163 180	162 181	161 183	161 185	160 187	158 188
22	93	94	93	90		
	34.4 541	34.7 543	35.2 533	35.5 516		
	169 186	168 188	165 187	159 183		
23	98	95	92			
	33.3 567	33.8 549	34.0 531			
	171 189	166 186	159 180			

15-A-156535-C-0117B-00075-A-01-1Éô

Figure 5-5 (Sheet 7 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA +10°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5 **FLAPS:** UP (0°)
ENGINE A/I: OFF **ONE ENGINE FEATHERED**

WEIGHT (1000 kg)	FL 120		FL 130		FL 140		FL 150		FL 160		FL 170	
	SAT	+1 °C	SAT	-1 °C	SAT	-3 °C	SAT	-5 °C	SAT	-7 °C	SAT	-9 °C
12	45		45		46		47		48		49	
	52.0	302	53.0	300	54.0	300	55.1	301	56.0	301	57.0	299
	130	157	130	159	130	162	131	166	131	168	130	170
14	57		57		57		57		57		58	
	48.4	352	49.3	349	50.2	347	51.1	343	51.9	341	52.6	339
	141	170	140	172	140	174	138	176	137	177	136	178
16	66		66		66		67		67		68	
	45.3	392	46.0	389	46.6	388	47.1	386	47.5	387	47.8	389
	147	177	146	179	145	181	144	182	143	184	142	186
17	70		71		71		72		72		70	
	43.7	413	44.2	413	44.6	413	45.0	414	45.2	414	45.7	400
	149	181	149	182	148	184	147	186	145	187	139	183
18	76		76		77		75					
	42.0	438	42.4	439	42.7	442	43.2	428				
	152	184	152	186	151	188	146	185				
19	81		79		77							
	40.3	467	40.8	456	41.0	440						
	156	188	152	186	145	180						
20	82											
	39.0	470										
	152	183										

WEIGHT (1000 kg)	FL 180		FL 190		FL 200		FL 210		FL 220		FL 230	
	SAT	-11 °C	SAT	-13 °C	SAT	-15 °C	SAT	-17 °C	SAT	-19 °C	SAT	-21 °C
12	49		49		49		49		50		50	
	58.1	297	59.1	295	60.1	292	60.9	290	61.7	290	62.3	289
	129	172	128	174	127	175	126	177	125	179	124	180
14	58		58		59		59		59			
	53.3	338	53.8	337	54.2	337	54.4	340	54.7	338		
	135	180	134	182	133	183	132	185	130	185		
15	63		63		63		61					
	50.7	362	50.9	364	51.2	362	51.3	349				
	138	184	137	185	135	185	128	179				
16	67		65									
	48.1	387	48.3	374								
	140	186	133	181								

15-A-156535-C-0117B-00076-A-01-1IÉö

Figure 5-5 (Sheet 8 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE
ISA +20°C

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

TQ %	NM/100kg	Kg/h/mot
IAS		TAS

WEIGHT (1000 kg)	FL SL SAT +35 °C	FL 10 SAT +33 °C	FL 20 SAT +31 °C	FL 30 SAT +29 °C	FL 40 SAT +27 °C	FL 50 SAT +25 °C
12	49	49	48	47	46	46
	38.8 380	39.9 371	41.0 363	42.1 354	43.2 347	44.4 339
	144 148	143 148	141 149	139 149	138 150	137 151
14	53	53	53	53	53	53
	37.9 397	38.8 391	39.6 386	40.5 381	41.3 377	42.2 373
	147 151	146 152	145 153	144 154	144 156	143 158
16	61	61	62	63	63	64
	36.3 434	37.0 430	37.7 427	38.4 425	39.2 422	40.0 418
	154 157	153 159	153 161	152 163	152 165	151 167
18	71	71	72	72	73	73
	34.7 476	35.3 473	35.9 470	36.6 467	37.2 463	37.9 460
	161 165	161 167	160 169	159 171	159 172	158 174
20	80	81	81	81	82	83
	33.1 518	33.7 515	34.2 511	34.7 508	35.3 506	35.8 504
	167 172	167 173	166 175	165 177	164 178	163 180
22	89	90	91	92	93	92
	31.6 560	32.0 558	32.5 557	32.9 556	33.3 555	33.8 546
	173 177	172 179	171 181	171 183	170 185	167 185
23	95	96	97	97	94	91
	30.8 583	31.2 582	31.6 582	32.0 578	32.6 561	32.9 544
	175 180	175 182	174 184	173 185	168 183	162 179

WEIGHT (1000 kg)	FL 60 SAT +23 °C	FL 70 SAT +21 °C	FL 80 SAT +19 °C	FL 90 SAT +17°C	FL 100 SAT +15 °C	FL 110 SAT +13 °C
12	46	45	45	45	45	46
	45.4 334	46.5 328	47.5 323	48.6 319	49.6 315	50.6 313
	135 152	134 152	133 153	132 155	131 156	131 158
14	54	55	55	56	57	57
	43.0 371	43.8 369	44.7 368	45.5 366	46.4 364	47.2 361
	142 159	142 162	142 165	142 167	142 169	141 171
16	64	65	65	65	66	66
	40.6 416	41.4 413	42.1 410	42.8 407	43.5 404	44.2 402
	151 169	150 171	149 173	148 174	148 176	147 178
18	73	74	74	75	76	77
	38.4 457	39.0 455	39.6 453	40.1 451	40.6 451	41.0 451
	157 176	156 177	155 179	154 181	153 183	153 185
20	84	84	85	82	79	
	36.2 503	36.6 503	37.1 500	37.7 485	38.0 470	
	163 182	162 184	160 185	156 183	150 178	
21	89	87	84			
	35.1 529	35.7 514	36.1 499			
	166 186	161 184	156 180			
22	89	86				
	34.3 529	34.5 513				
	162 182	156 177				

15-A-156535-C-0117B-00077-A-01-1Éô

Figure 5-5 (Sheet 9 of 10) Long Range Cruise. (MCT). 1 Engine

LONG RANGE CRUISE (MCT)
1 ENGINE **ISA +20°C**

DATE: FEB. 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF
ONE ENGINE FEATHERED

WEIGHT (1000 kg)	FL 120		FL 130		FL 140		FL 150		FL 160		FL 170	
	SAT	+11 °C	SAT	+9 °C	SAT	+7 °C	SAT	+5 °C	SAT	+3 °C	SAT	+1 °C
12	47 51.5 131	312 161	48 52.5 131	313 164	48 53.6 131	312 167	49 54.7 131	309 169	49 55.7 130	307 171	49 56.6 129	305 173
14	57 48.1 140	358 172	57 49.0 139	355 174	57 49.8 138	352 175	58 50.7 137	350 177	58 51.3 136	348 179	58 52.0 135	348 181
16	66 44.8 146	401 179	67 45.4 145	399 181	68 46.0 144	399 183	68 46.5 144	399 185	67 47.1 140	390 184	64 47.5 134	377 179
17	72 43.1 149	425 183	72 43.6 148	426 186	71 44.3 145	416 184	69 44.7 139	402 180				
18	75 41.7 150	443 185	73 42.2 145	429 181								

WEIGHT (1000 kg)	FL 180		FL 190		FL 200		FL 210		FL 220		FL 230	
	SAT	-1 °C	SAT	-3 °C	SAT	-5 °C	SAT	-7 °C	SAT	-9 °C	SAT	-11 °C
12	49 57.6 128	302 174	49 58.6 127	300 176	50 59.5 126	298 177	50 60.2 125	297 179	50 60.9 124	297 181	51 61.4 124	297 183
13	54 55.1 131	323 178	54 55.8 130	322 180	55 56.4 130	322 182	55 56.9 129	323 184	55 57.4 127	321 184	53 57.9 121	310 180
14	59 52.5 135	348 183	60 53.0 134	349 185	58 53.7 131	342 184	56 54.0 125	331 179				
15	62 50.3 135	365 183	60 50.6 129	353 178								

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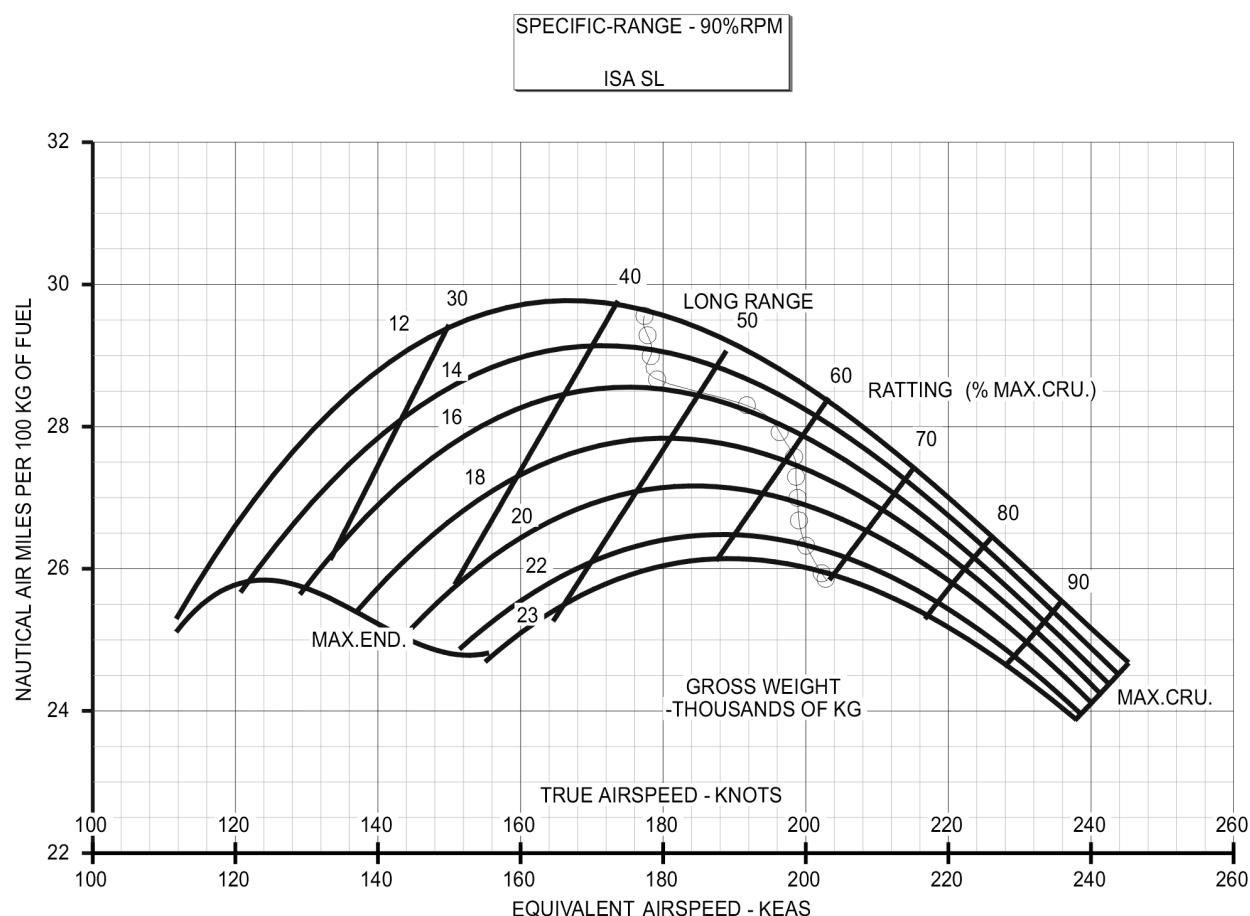
Figure 5-5 (Sheet 10 of 10) Long Range Cruise. (MCT). 1 Engine

**SPECIFIC RANGE
CRUISE CRZ1 - 2 ENGINES
ISA - SL**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF



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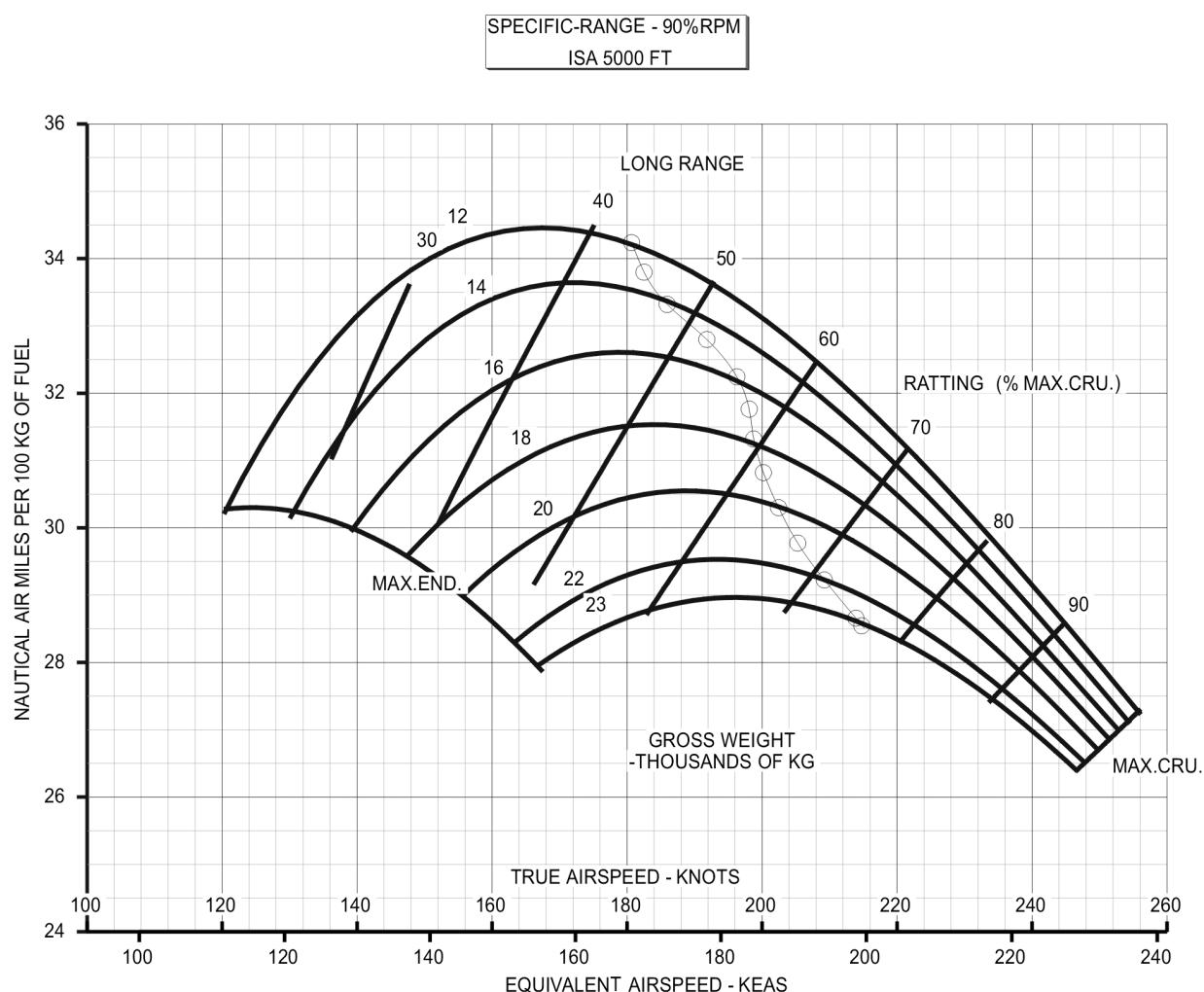
Figure 5-6 (Sheet 1 of 7) Specific Range. CRZ1. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ1 - 2 ENGINES
ISA - 5000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF



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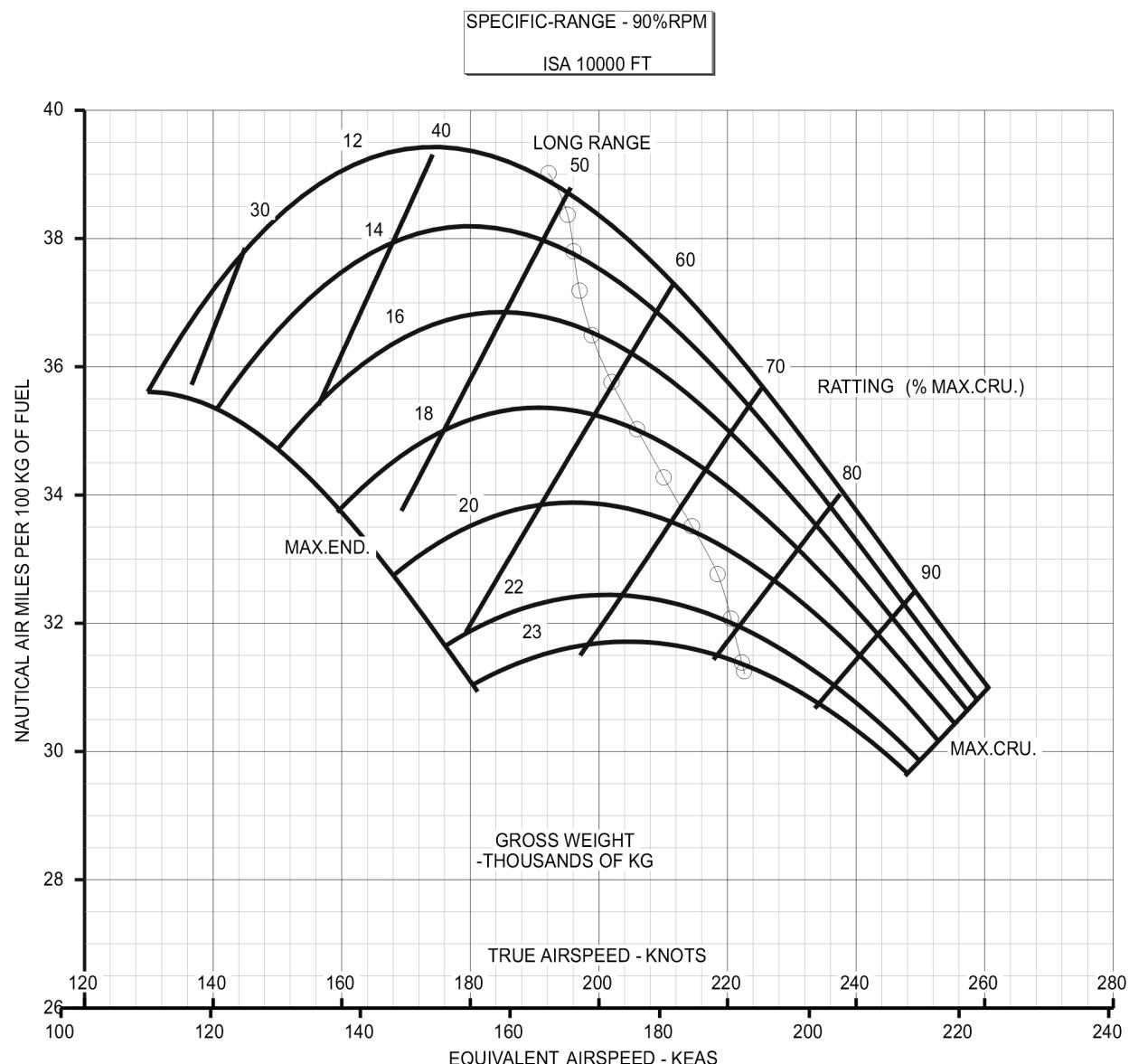
Figure 5-6 (Sheet 2 of 7) Specific Range. CRZ1. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ1 - 2 ENGINES
ISA - 10000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF



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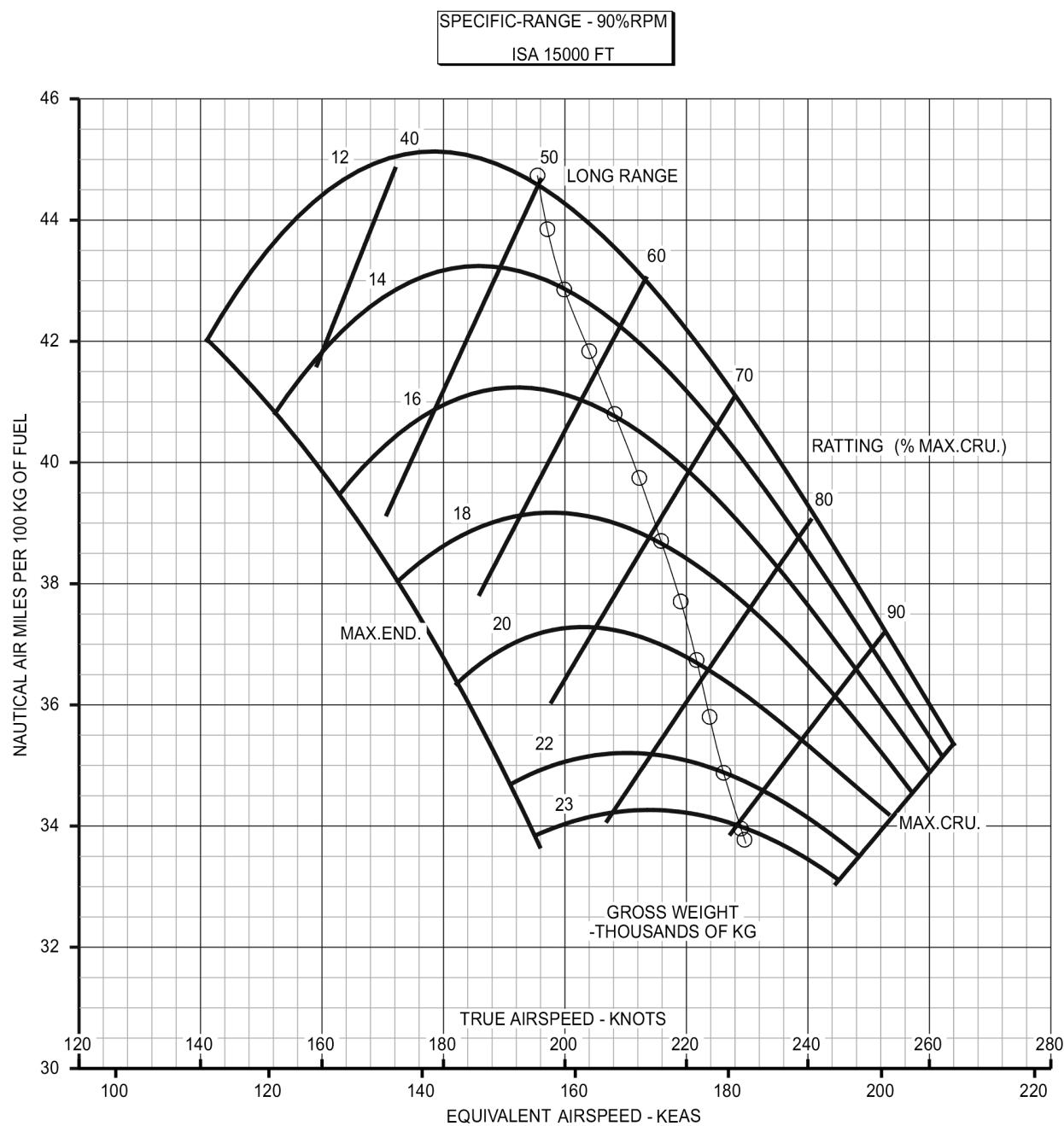
Figure 5-6 (Sheet 3 of 7) Specific Range. CRZ1. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ1 - 2 ENGINES
ISA - 15000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF



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Figure 5-6 (Sheet 4 of 7) Specific Range. CRZ1. 2 Engines

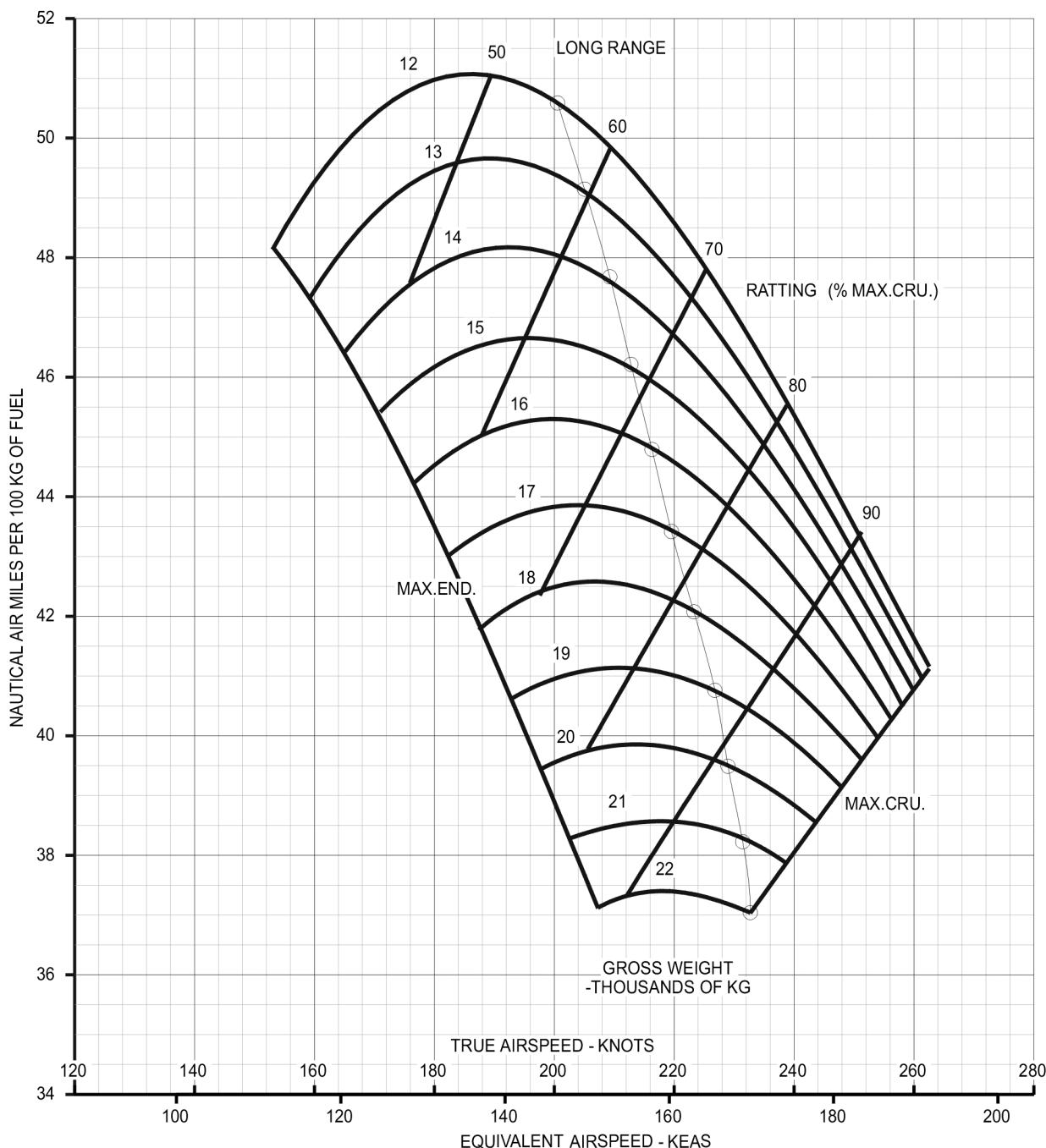
**SPECIFIC RANGE
CRUISE CRZ1 - 2 ENGINES
ISA - 20000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

SPECIFIC-RANGE - 90%RPM
ISA 20000 FT



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Figure 5-6 (Sheet 5 of 7) Specific Range. CRZ1. 2 Engines

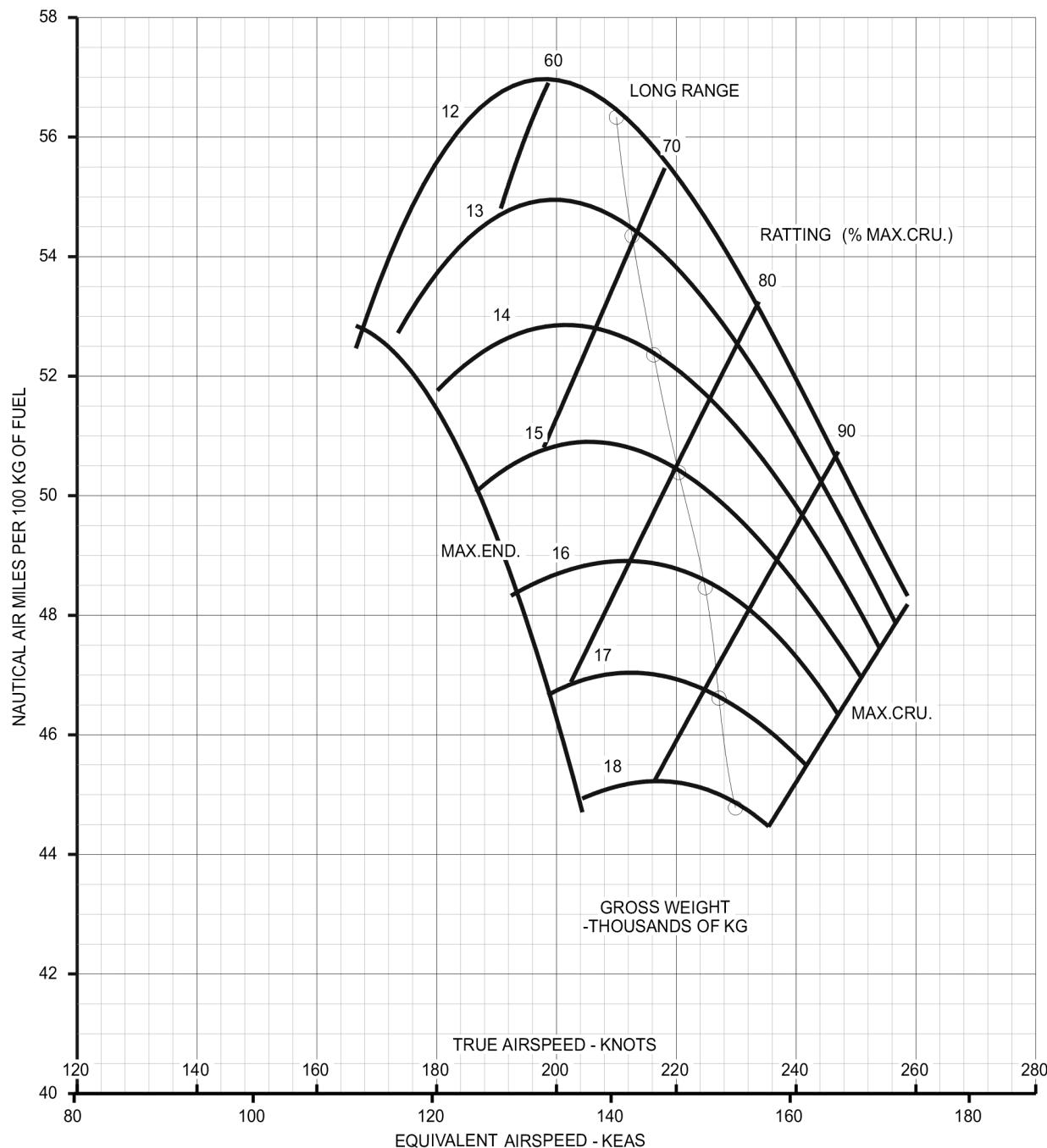
**SPECIFIC RANGE
CRUISE CRZ1 - 2 ENGINES
ISA - 25000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

SPECIFIC-RANGE - 90%RPM
ISA 25000 FT



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Figure 5-6 (Sheet 6 of 7) Specific Range. CRZ1. 2 Engines

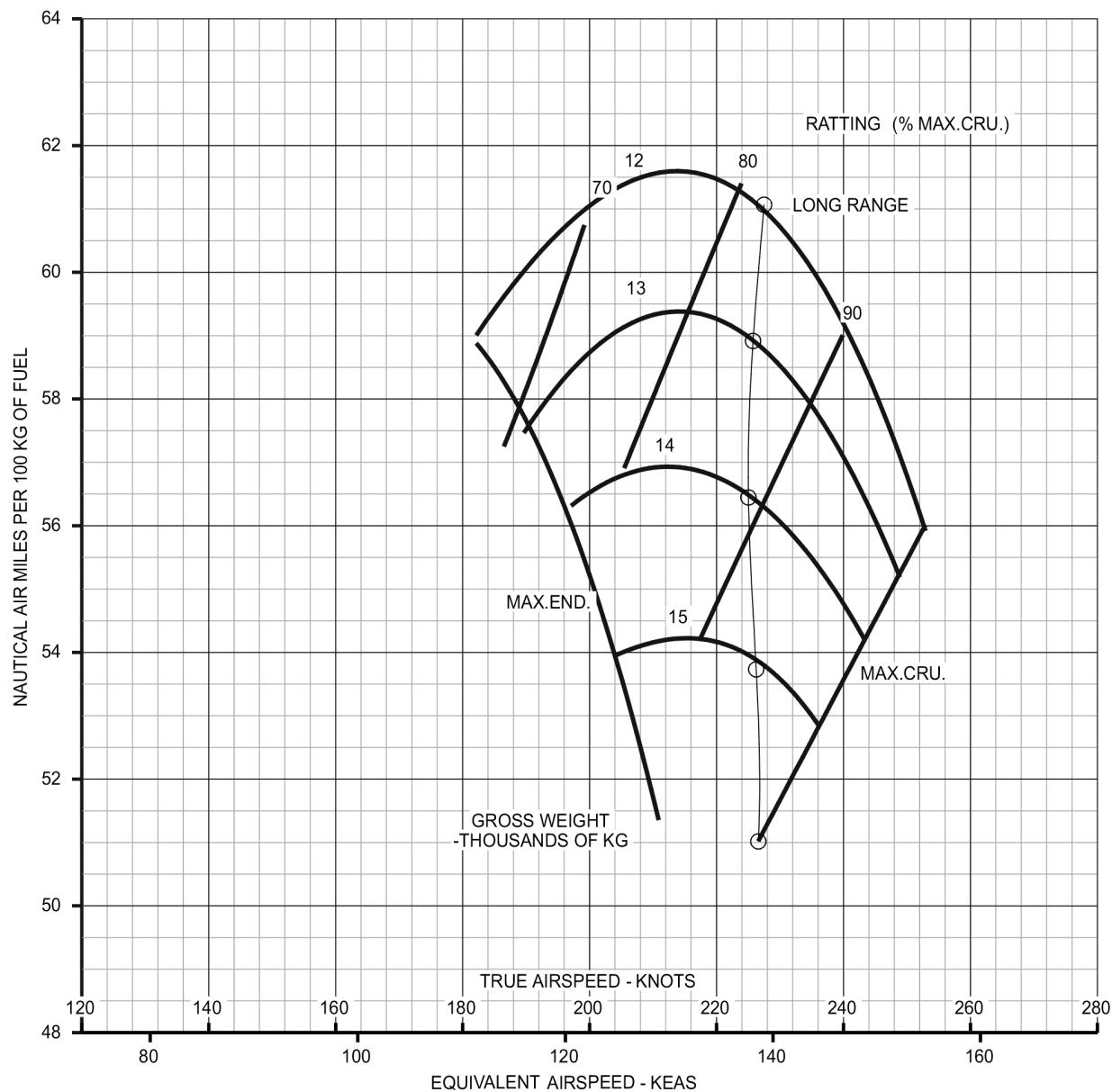
**SPECIFIC RANGE
CRUISE CRZ1 - 2 ENGINES
ISA - 30000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

SPECIFIC-RANGE - 90%RPM
ISA 30000 FT



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Figure 5-6 (Sheet 7 of 7) Specific Range. CRZ1. 2 Engines

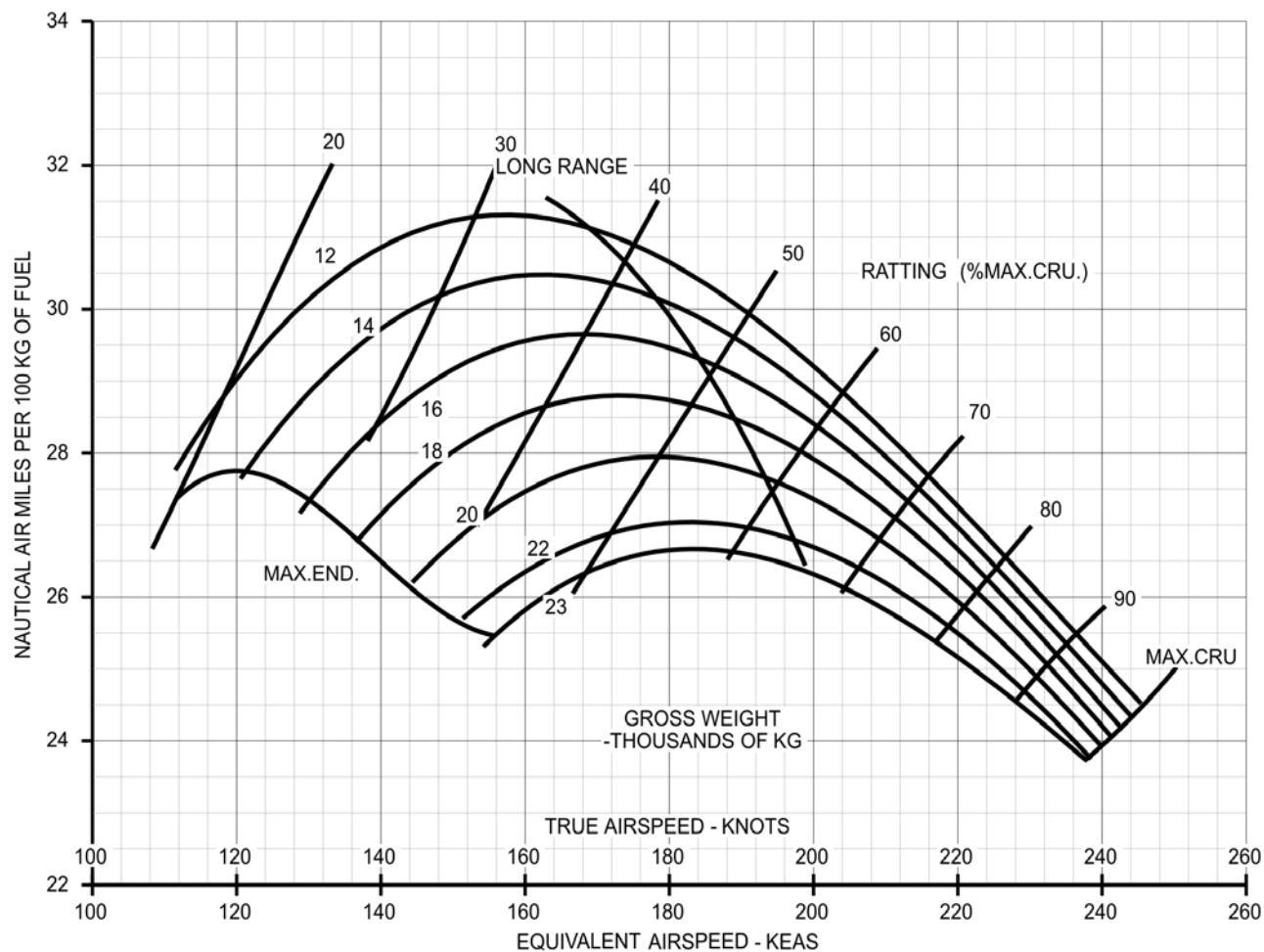
**SPECIFIC RANGE
CRUISE CRZ2 - 2 ENGINES
ISA - SL**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

SPECIFIC RANGE - 80% RPM
ISA SL



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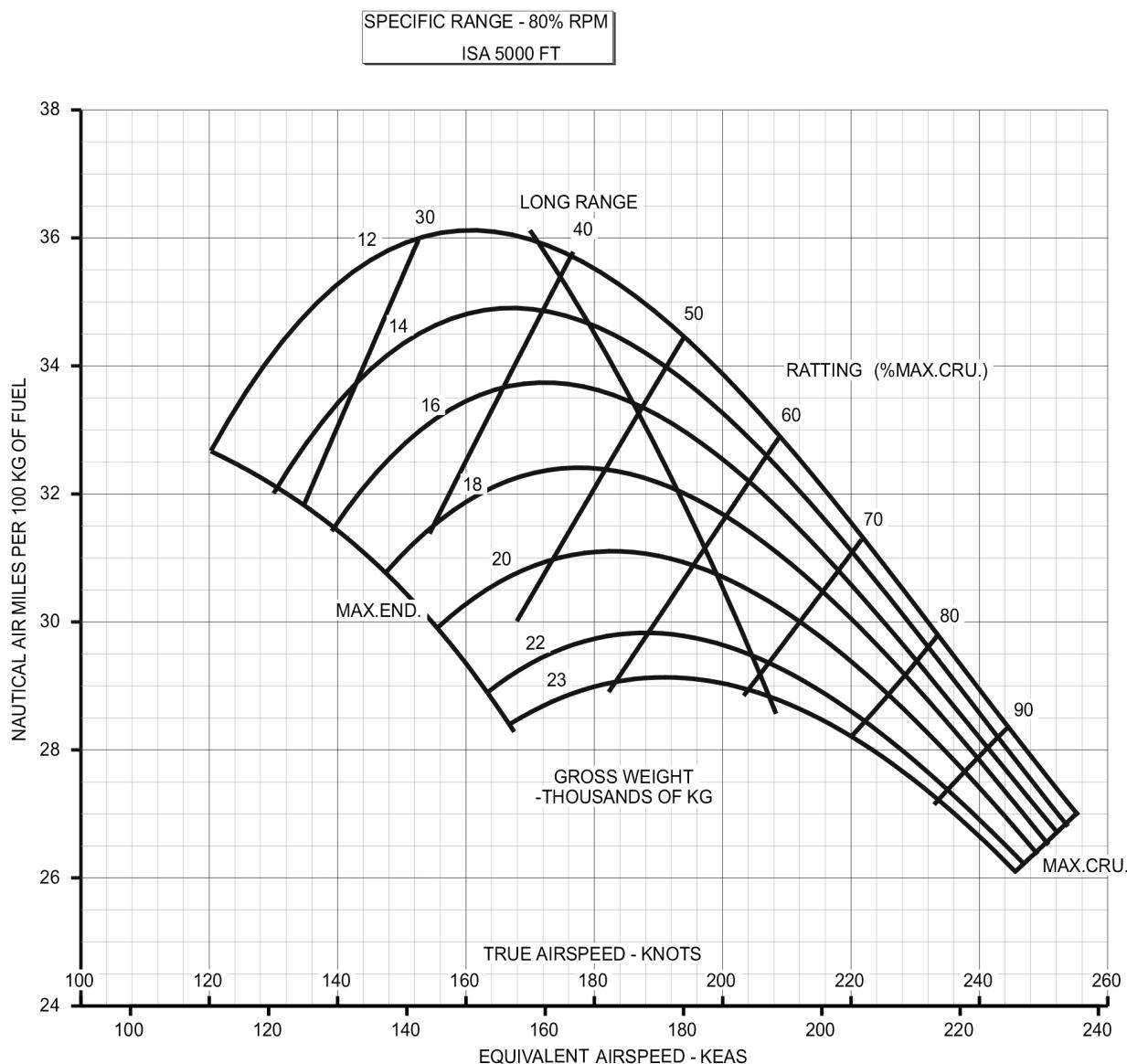
Figure 5-7 (Sheet 1 of 7) Specific Range. CRZ2. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ2 - 2 ENGINES
ISA - 5000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF



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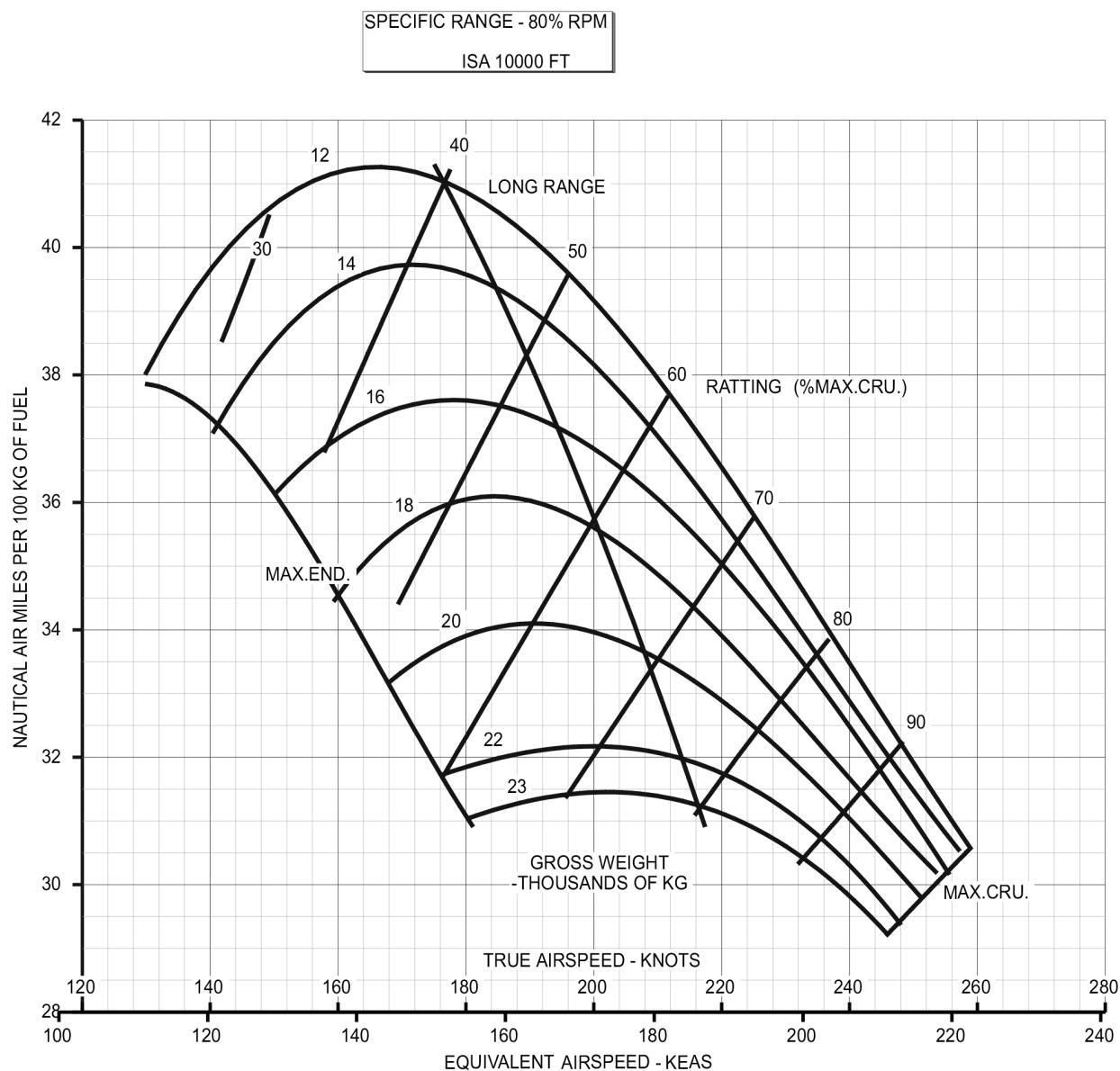
Figure 5-7 (Sheet 2 of 7) Specific Range. CRZ2. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ2 - 2 ENGINES
ISA - 10000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF



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Figure 5-7 (Sheet 3 of 7) Specific Range. CRZ2. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ2 - 2 ENGINES
ISA - 15000 FT**

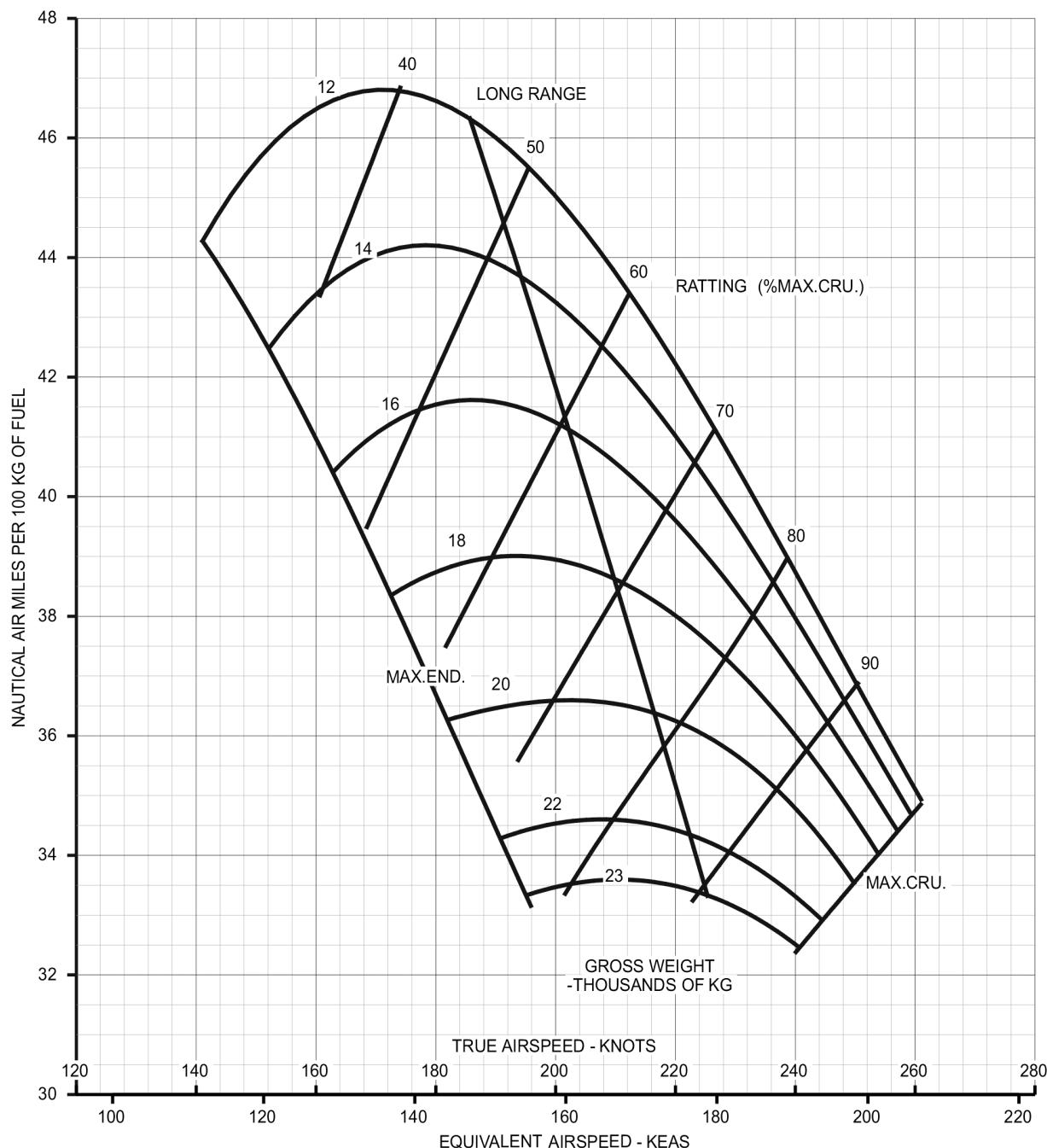
DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

SPECIFIC RANGE - 80% RPM

ISA 15000 FT



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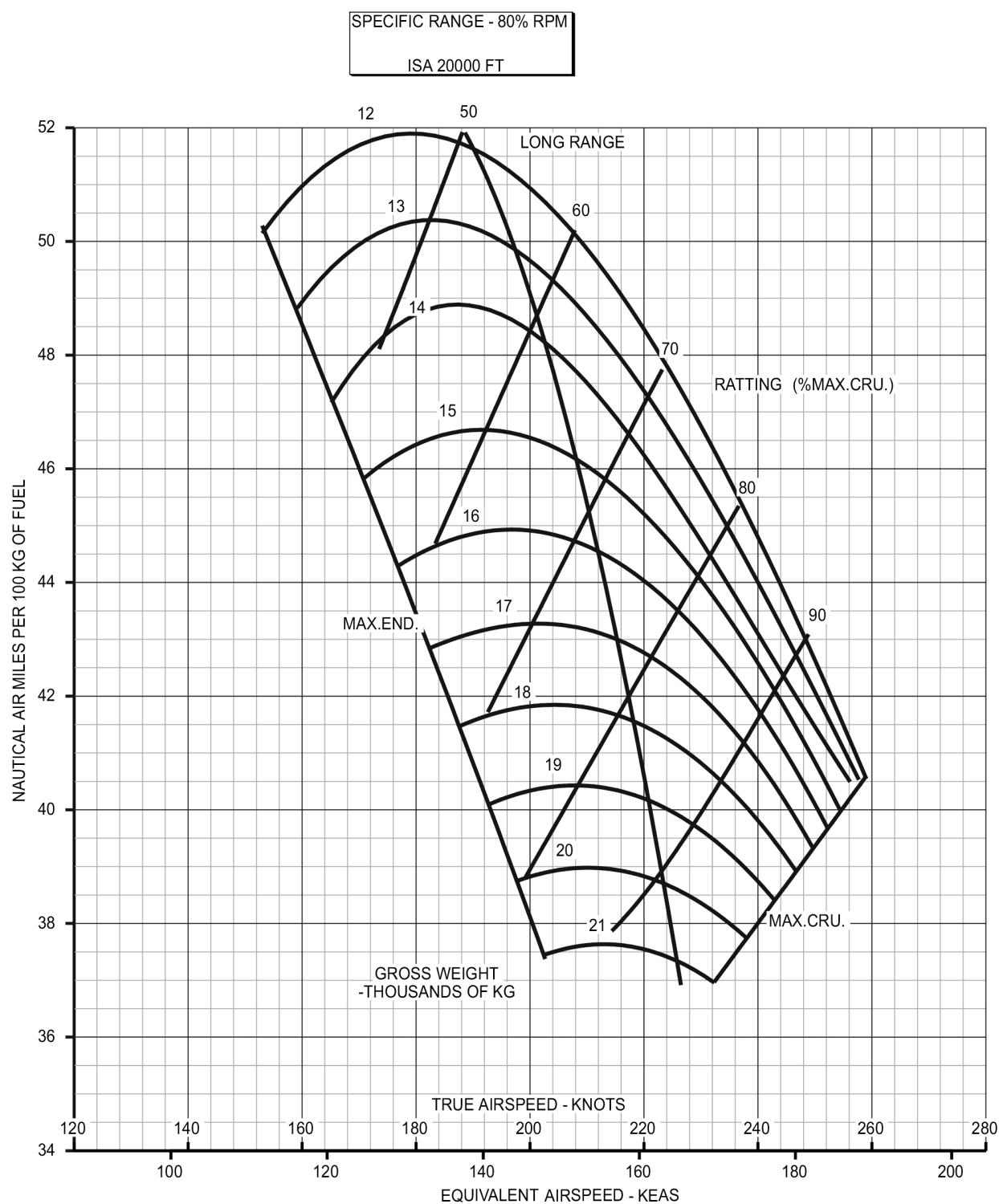
Figure 5-7 (Sheet 4 of 7) Specific Range. CRZ2. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ2 - 2 ENGINES
ISA - 20000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF



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Figure 5-7 (Sheet 5 of 7) Specific Range. CRZ2. 2 Engines

**SPECIFIC RANGE
CRUISE CRZ2 - 2 ENGINES
ISA - 25000 FT**

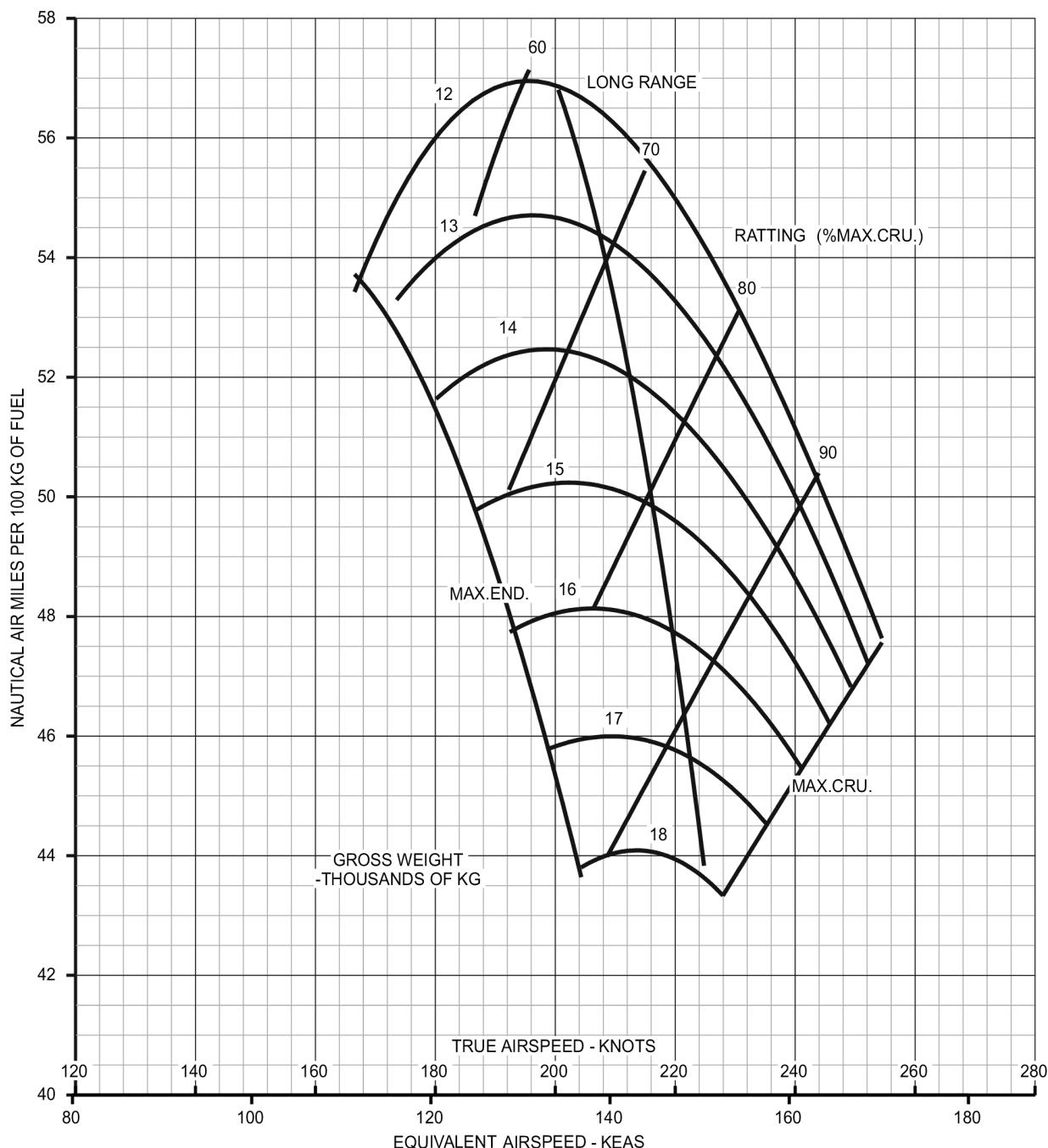
DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

SPECIFIC RANGE - 80% RPM

ISA 25000 FT



15-A-156535-C-0117B-00091-A-01-1Éô

Figure 5-7 (Sheet 6 of 7) Specific Range. CRZ2. 2 Engines

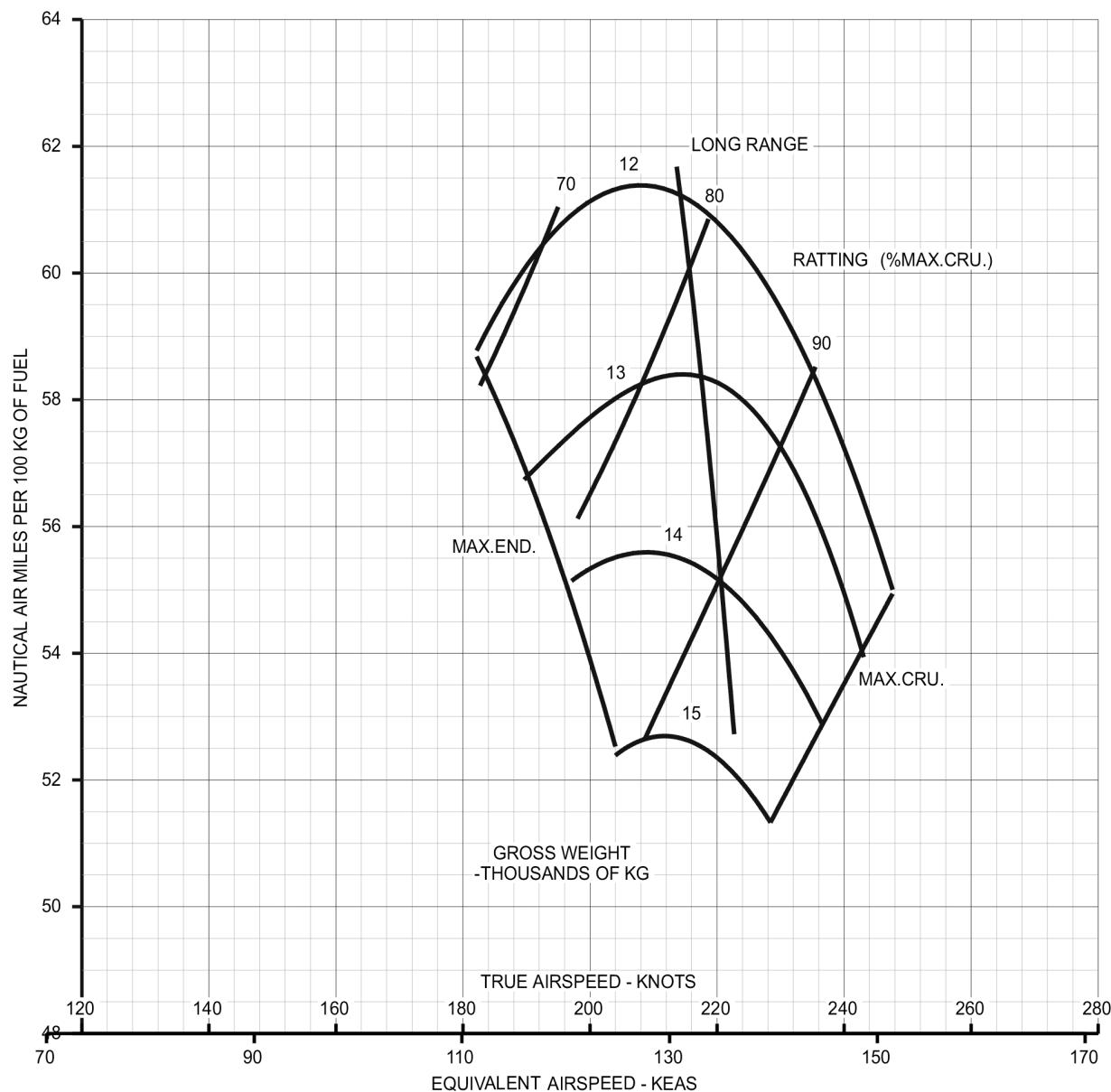
**SPECIFIC RANGE
CRUISE CRZ2 - 2 ENGINES
ISA - 30000 FT**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

SPECIFIC RANGE - 80% RPM
ISA 30000 FT



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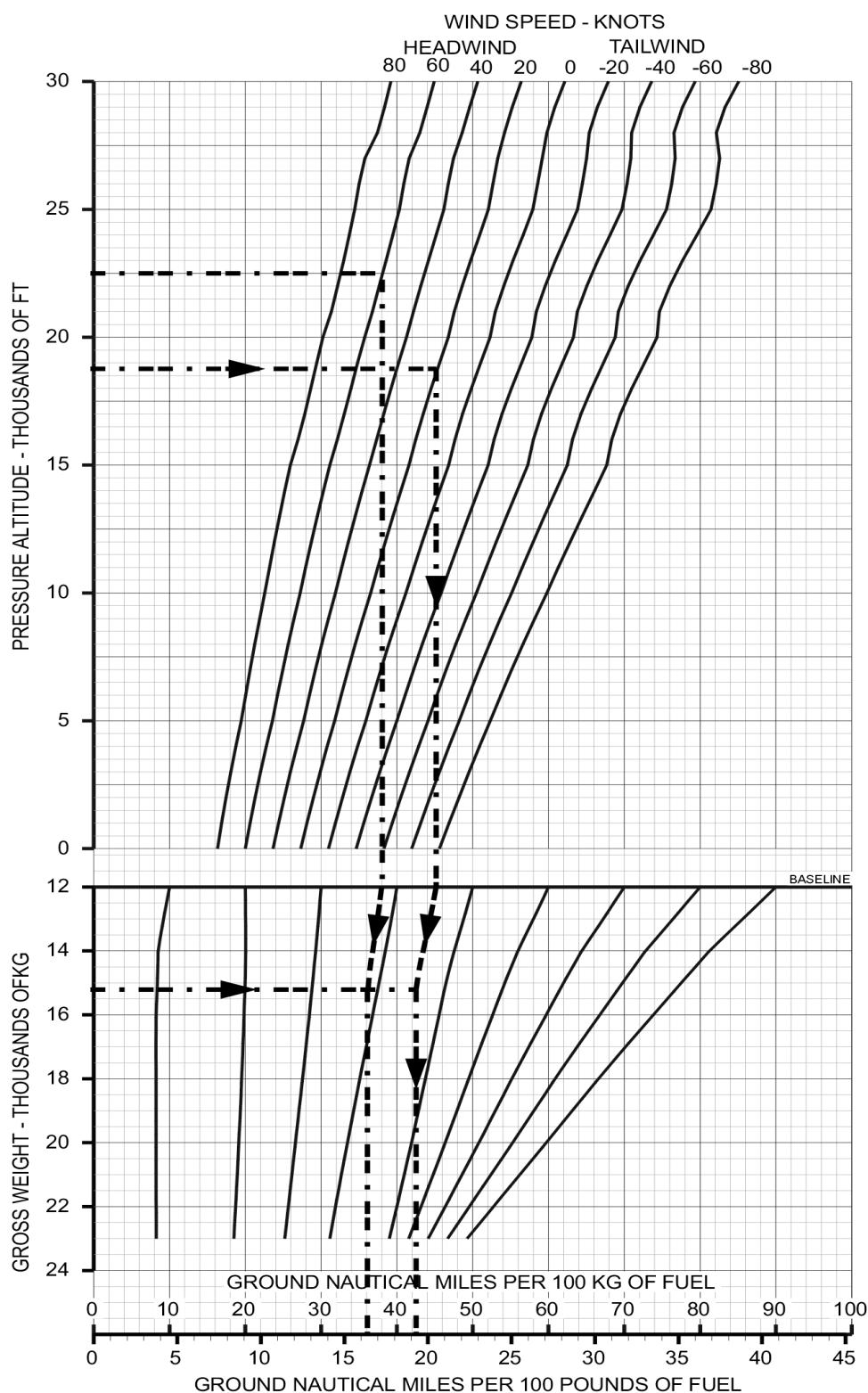
Figure 5-7 (Sheet 7 of 7) Specific Range. CRZ2. 2 Engines

**CRUISE ALTITUDE SELECTION AS A FUNCTION OF WIND
LONG RANGE CRUISE - 2 ENGINES
ISA -20°C**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)



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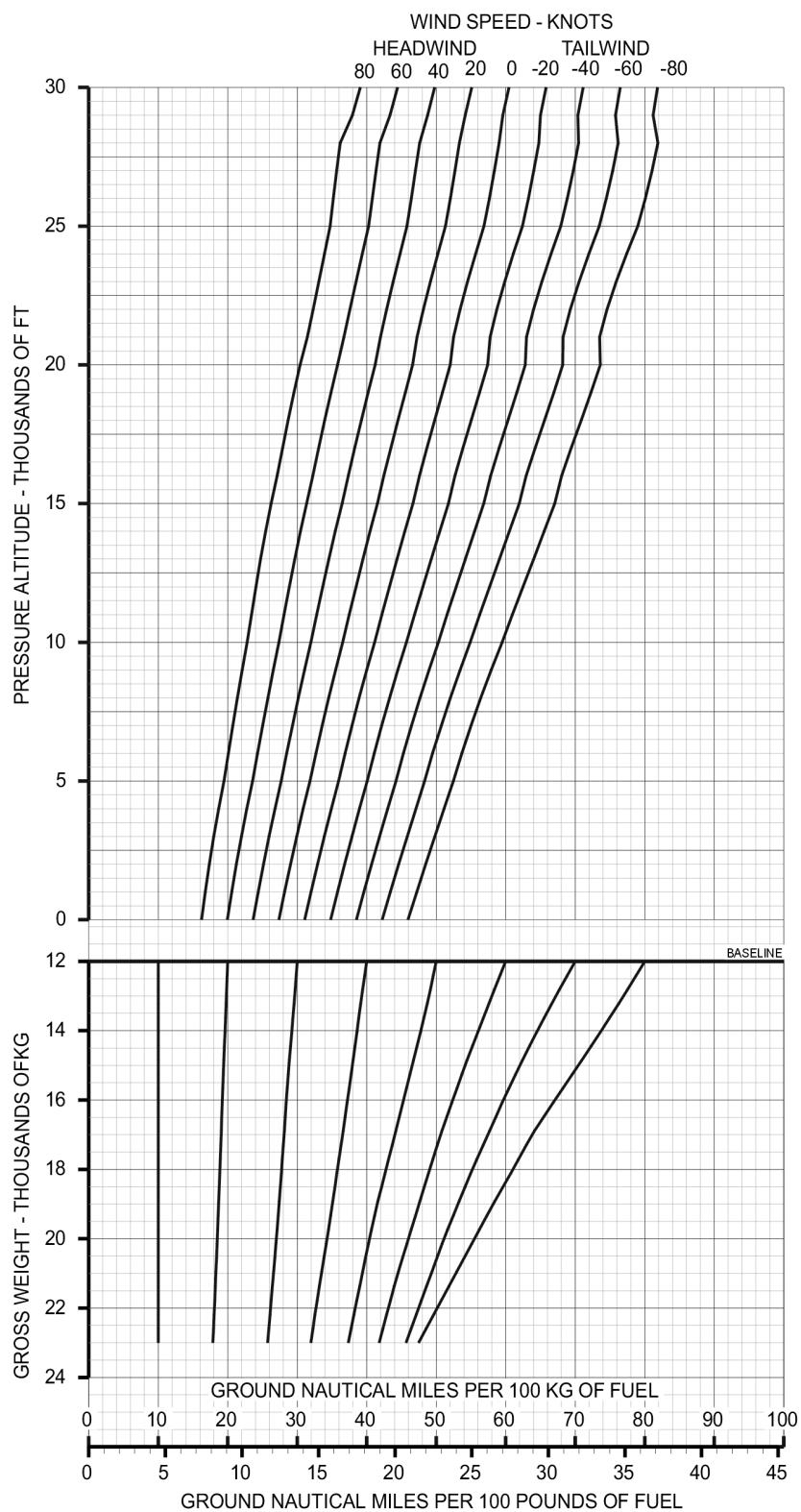
Figure 5-8 (Sheet 1 of 5) Cruise Altitude Selection. 2 Engines

**CRUISE ALTITUDE SELECTION AS A FUNCTION OF WIND
LONG RANGE CRUISE - 2 ENGINES
ISA -10°C**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)



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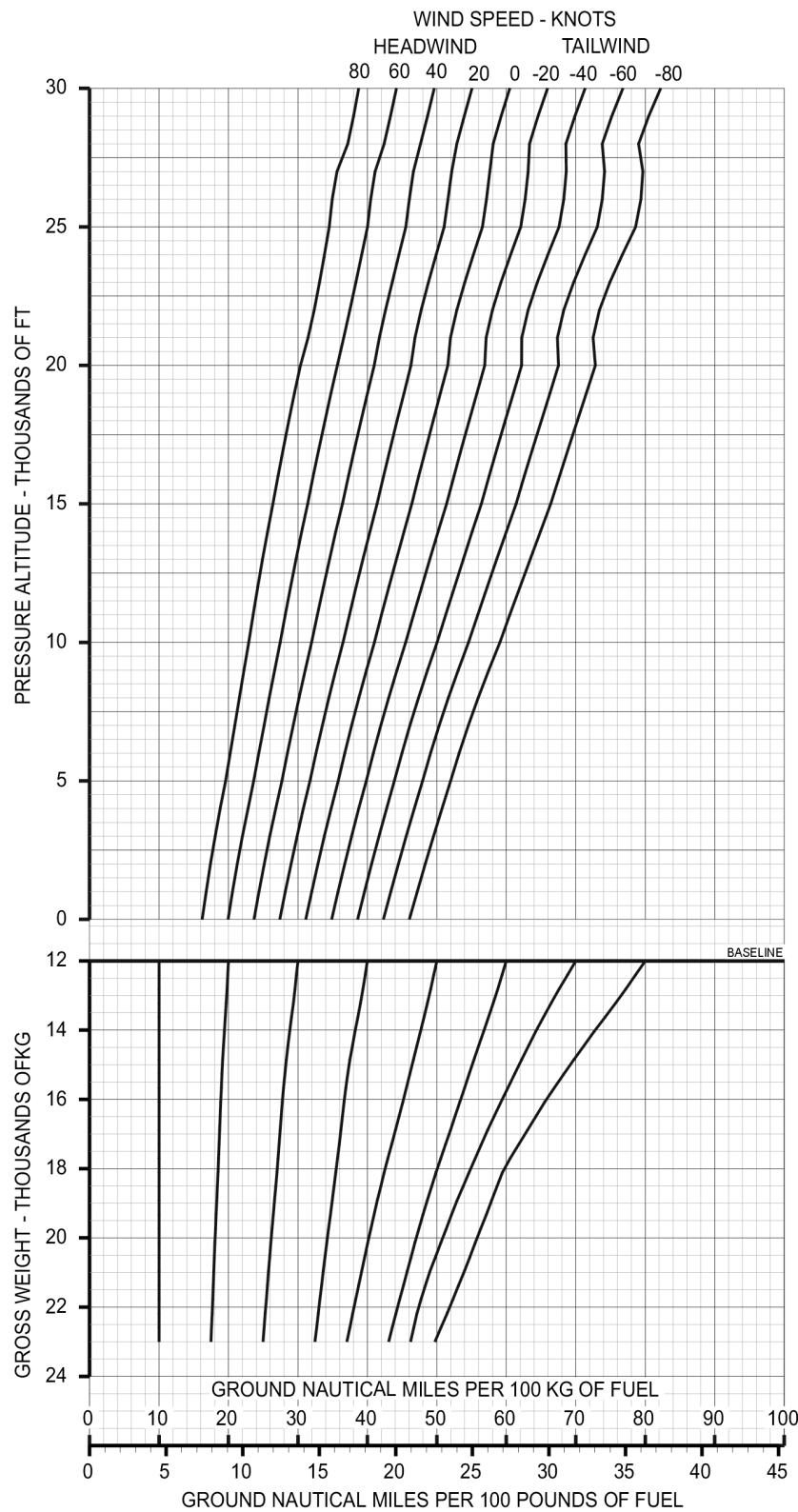
Figure 5-8 (Sheet 2 of 5) Cruise Altitude Selection. 2 Engines

CRUISE ALTITUDE SELECTION AS A FUNCTION OF WIND
LONG RANGE CRUISE - 2 ENGINES
ISA

DATE: JUL. 2000
 DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
 ENGINES: PW 127-G
 PROPELLERS: HS 568F-5

FLAPS: UP (0°)



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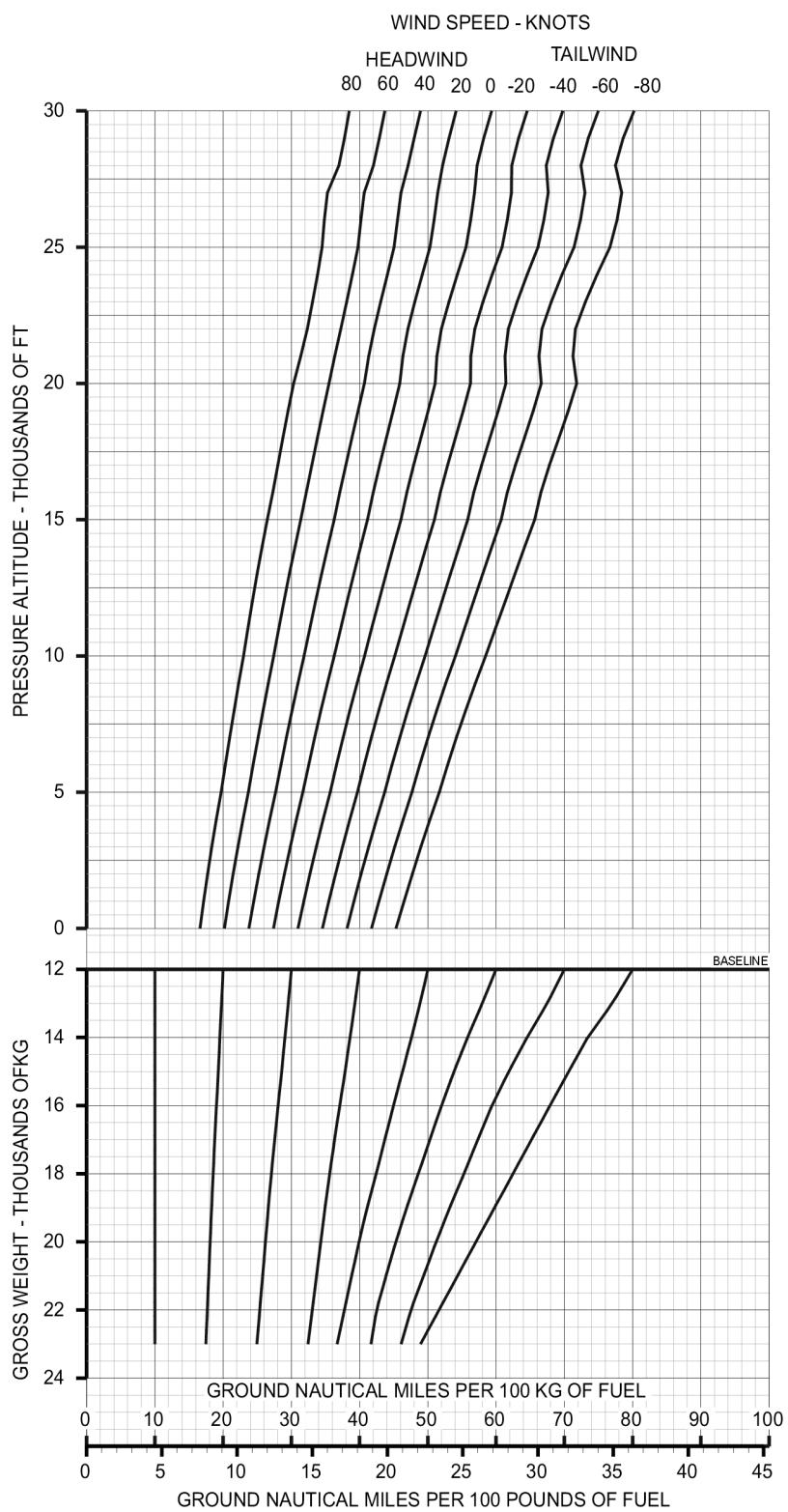
Figure 5-8 (Sheet 3 of 5) Cruise Altitude Selection. 2 Engines

**CRUISE ALTITUDE SELECTION AS A FUNCTION OF WIND
LONG RANGE CRUISE - 2 ENGINES
ISA +10°C**

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)



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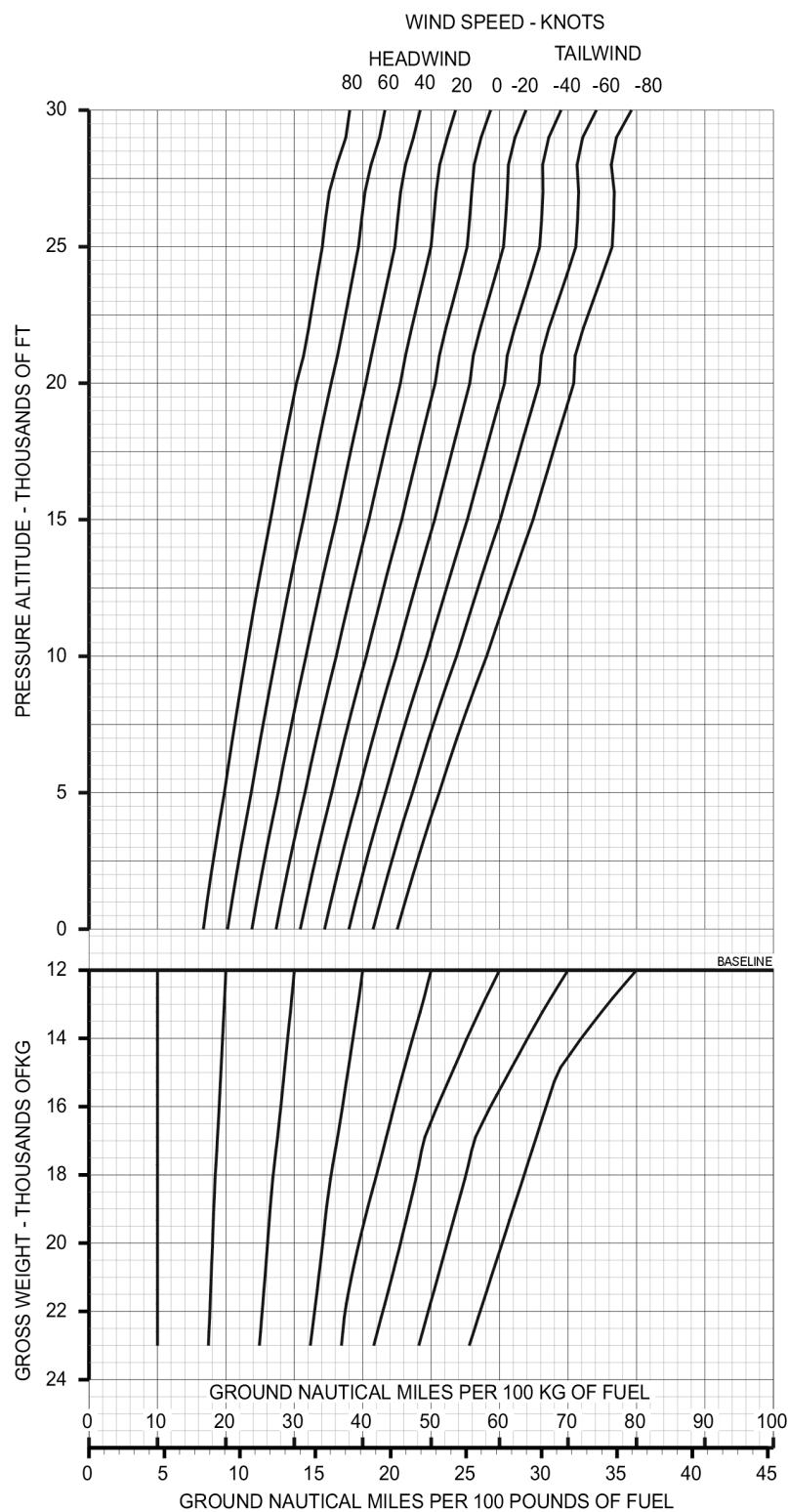
Figure 5-8 (Sheet 4 of 5) Cruise Altitude Selection. 2 Engines

CRUISE ALTITUDE SELECTION AS A FUNCTION OF WIND
LONG RANGE CRUISE - 2 ENGINES
ISA +20°C

DATE: JUL. 2000
 DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
 ENGINES: PW 127-G
 PROPELLERS: HS 568F-5

FLAPS: UP (0°)



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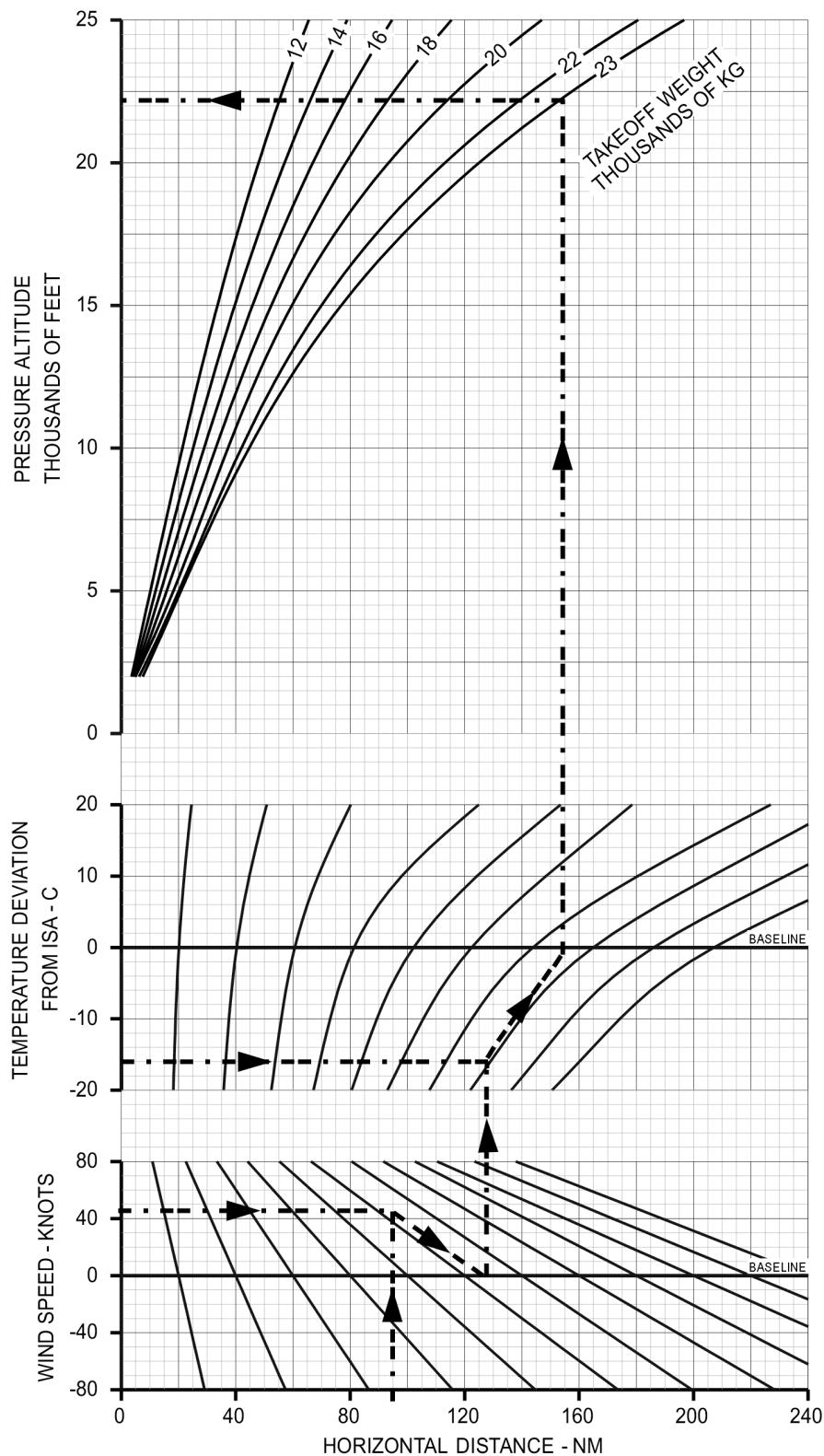
Figure 5-8 (Sheet 5 of 5) Cruise Altitude Selection. 2 Engines

MAXIMUM CRUISE ALTITUDE FOR SHORT RANGE MISSIONS 2 ENGINES

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
FUEL FOR ACCELERATION
AND T. O.: 70Kg
T. O. AND LANDING RUNWAY
ALTITUDES: SEA LEVEL
CLIMB: CLB POWER (140/130
KIAS)
DESCENT: HIGH FLIGHT IDLE
AND 200 KIAS
APPROACH AND LANDING: 10Kg



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Figure 5-9 Maximum Cruise Altitude for Short Range Missions. 2 Engines

ABSOLUTE CEILING

1 ENGINE, MAXIMUM CONTINUOUS POWER (MCT)

DATE: JUL. 2000
 DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
 ENGINES: PW 127-G
 PROPELLERS: HS 568F-5

FLAPS:
 SPEED: UP (0°)
 FIGURE 4-10

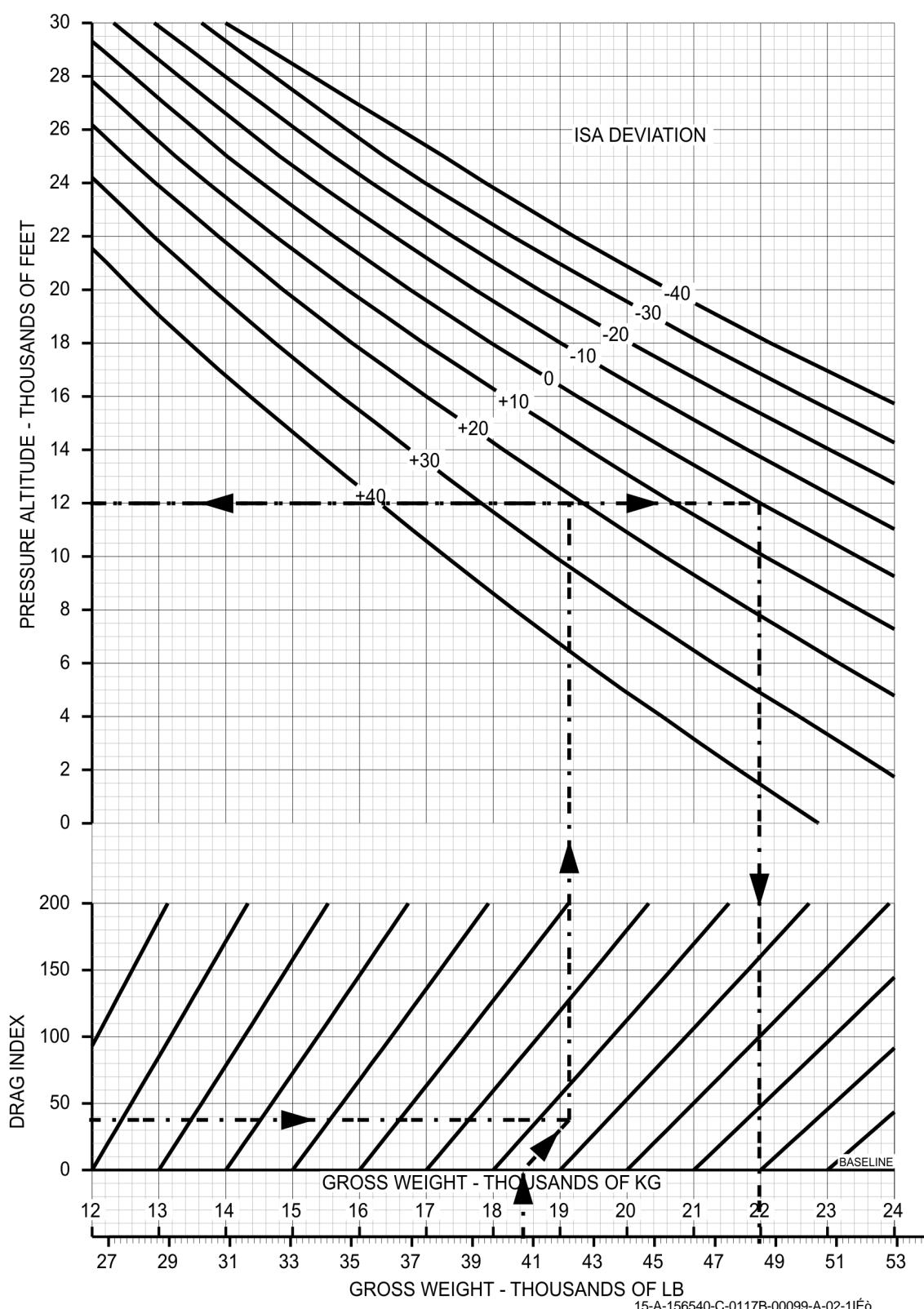


Figure 5-10 Absolute Ceiling. Máximo Continuo de Potencia (MCT). 1 Engine

DRIFTDOWN CHART

1 ENGINE, MAXIMUM CONTINUOUS POWER (MCT)

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
SPEED: FIGURE 4-10

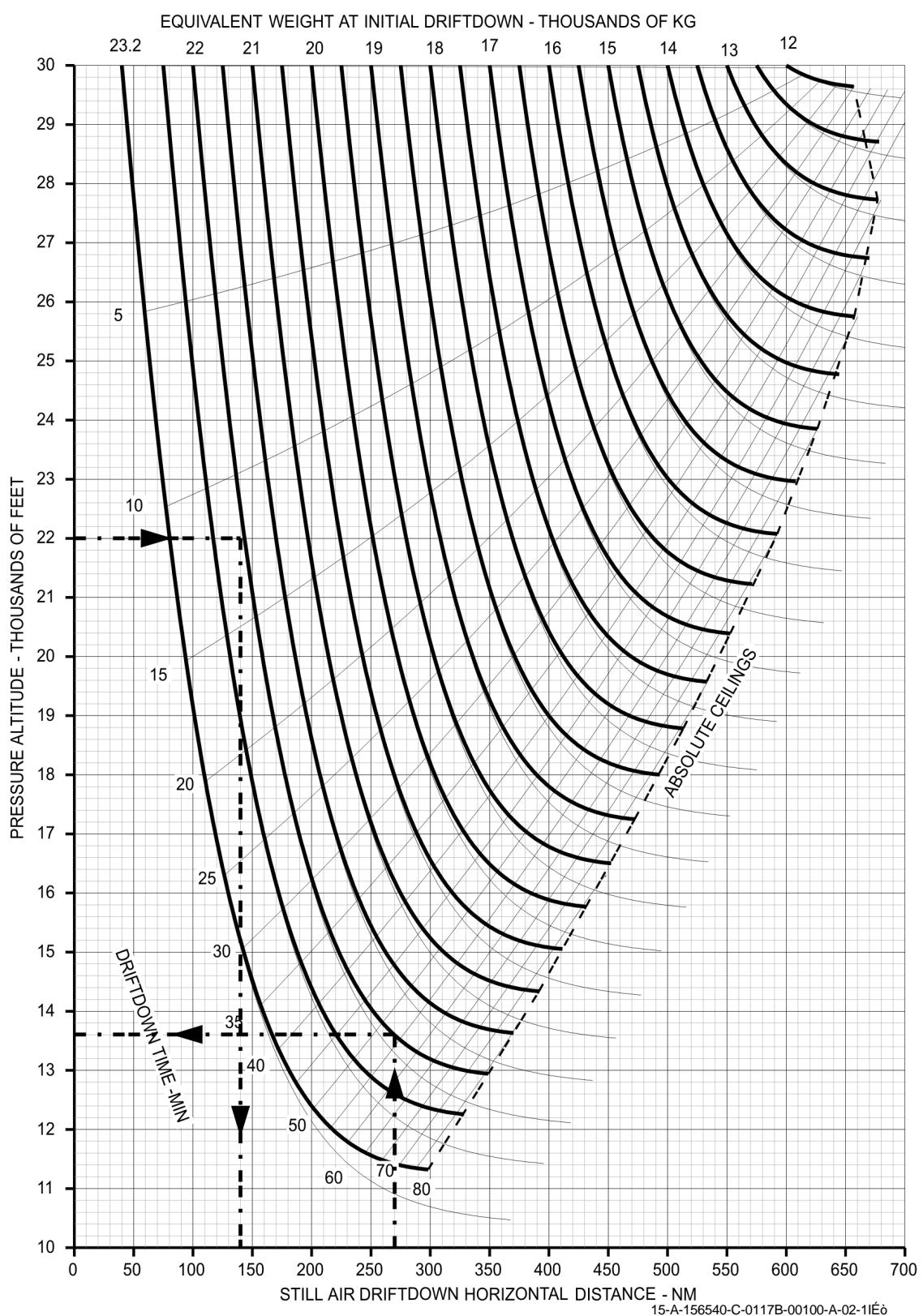
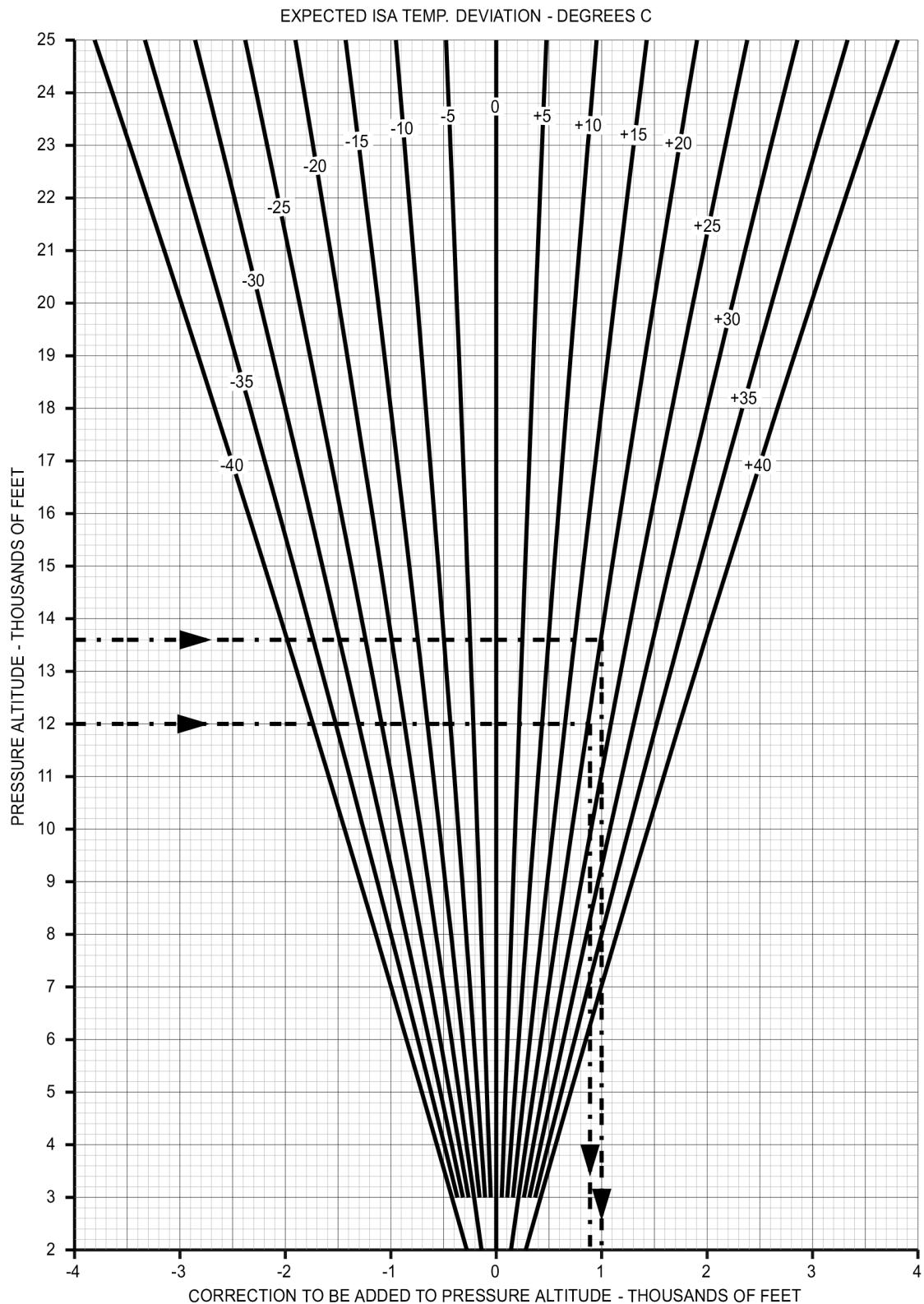


Figure 5-11 Driftdown Chart. Máximo Continuo de Potencia (MCT). 1 Engine

RELATION BETWEEN PRESSURE AND GEOMETRICAL ALTITUDE

DATE: JUL. 2000
 DATA BASIS: CALCULATED



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Figure 5-12 Relation Between Pressure and Geometrical Altitude

EFFECT OF WIND ON HORIZONTAL DISTANCE OF DRIFTDOWN

DATE: JUL. 2000
 DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
 ENGINES: PW 127-G
 PROPELLERS: HS 568F-5

SPEED: FIGURE 4-10

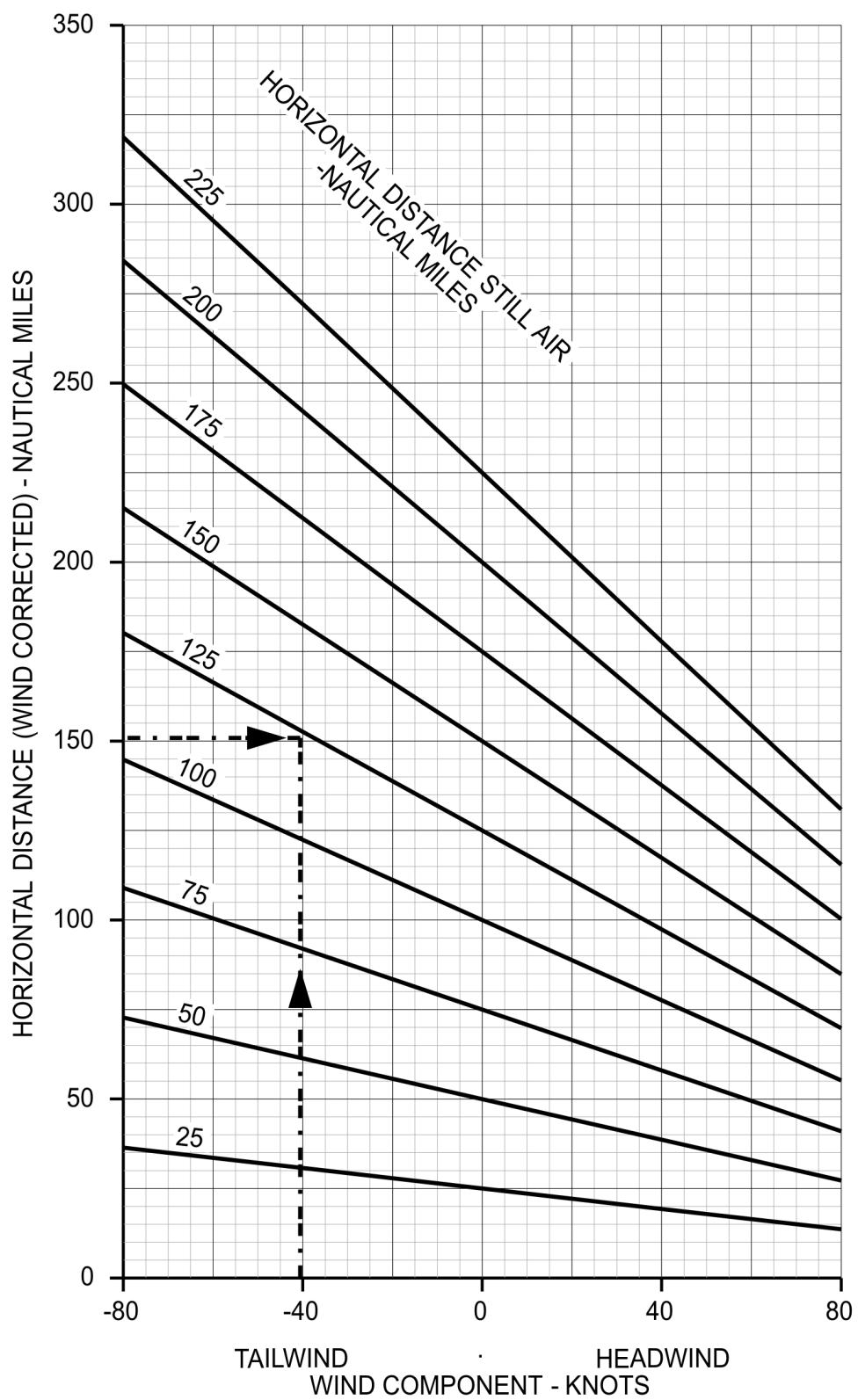


Figure 5-13 Effect of Wind on Horizontal Distance of Driftdown