Diversion, Table 26

7. Tables 26A and B show the fuel, time and climb height attained for diversion distances of up to 500 nautical miles. The tables assume a diversion from 1,000 feet to 1,000 feet at a constant start-of-climb weight of 220,000 lb. The optimum fuel procedure is followed, i.e. a climb to the height shown followed directly by a descent. Where 38,000 feet is reached there is an intermediate period of cruise at 0.84 M_{IND}. The table includes a 5% contingency fuel and assumes J.S.A. + 10°C conditions.

Cruise Control, Table 27

8. Tables 27A, B and C show for 0.84 M_{IND} above 30,000 ft., and 300 knots I.A.S. below, the percent **H.P.R.P.M. and the fuel flow in lb./minute/engine at various cruise altitudes and weights.** Also shown are the indicated outside air temperature and the corresponding T.A.S. for each altitude. Incorporated in the altitude column is the I.A.S. in knots.

Re-flight planning, Table 28

9. This table enables the fuel and time to destination to be readily obtained. The method of using the table is as follows:

Enter with:

(a) Initial Weight
(b) Distance to go
(c) Mean Wind Component
(d) Altitude
(e) J.S.A. Temperature

Read off T.A.S. against altitude and temperature.

Obtain still air distance from:

$$\frac{\text{T.A.S.}}{\text{T.A.S. + WIND}} \times \text{distance to go.}$$

At this still air distance read off fuel at the intersection of the distance column with the initial weight at altitude column.

$$\text{Time} = \frac{\text{still air distance}}{\text{T.A.S.}}$$

Example

Initial weight:	268,000 lb.
Distance to go:	1540 n.ms.
Mean wind component:	- 44 knots
Altitude:	31,000 ft.
Temperature:	J.S.A. - 10°C
Mean T.A.S.:	467 knots from Table
Still air distance:	$\frac{467}{467-44} \times 1540$
	= 1,700
Fuel	= 50,600 lb. from Table
Time	= $\frac{1700}{467}$ = 3.64 hours.

TABLE 21A
J.S.A.—12°C TO —8°C

3 ENGINE CLIMB

PRESSURE HEIGHT FEET	MEAN T.A.S KTS	TAKE-OFF WEIGHT - LB. 323000 FUEL LB	TIME MIN	320000 FUEL LB	TIME MIN	310000 FUEL LB	TIME MIN	300000 FUEL LB	TIME MIN	290000 FUEL LB	TIME MIN	280000 FUEL LB	TIME MIN	270000 FUEL LB	TIME MIN	260000 FUEL LB	TIME MIN	250000 FUEL LB	TIME MIN	240000 FUEL LB	TIME MIN	230000 FUEL LB	TIME MIN	220000 FUEL LB	TIME MIN	210000 FUEL LB	TIME MIN	200000 FUEL LB	TIME MIN	190000 FUEL LB	TIME MIN	180000 FUEL LB	TIME MIN	MEAN T.A.S. KTS.	PRESSURE HEIGHT FEET
43000	432																							12400	38	11400	34	10600	30	9800	27	9200	25	432	43000
42000	426																					12600	38	11700	34	10900	31	10200	28	9400	25	8800	23	426	42000
41000	420																			13800	39	12100	34	11200	31	10400	28	9800	26	9100	23	8600	21	420	41000
40000	415																	14500	39	12800	34	11600	31	10700	28	10000	26	9400	24	8800	22	8300	20	415	40000
39000	410															14500	39	13100	34	12000	31	11100	29	10300	26	9600	24	9100	22	8500	21	8000	19	410	39000
38000	405													14900	42	13300	35	12300	31	11400	29	10700	27	10000	24	9300	23	8800	21	8200	20	7800	18	405	38000
37000	400									15400	42	13900	37	12700	32	11700	29	11000	27	10300	25	9700	23	9000	22	8500	20	8000	19	7600	17	400	37000
36000	396									16000	43	14400	38	13200	34	12200	31	11400	28	10600	26	10000	24	9400	22	8800	21	8300	19	7800	18	7400	17	396	36000
35000	392							16800	45	14900	39	13700	35	12600	31	11700	29	10900	26	10200	24	9600	23	9100	21	8500	20	8000	18	7600	17	7200	16	392	35000
34000	387					16900	45	15200	39	13900	35	12900	32	12000	29	11200	27	10500	25	9900	23	9300	22	8800	20	8300	19	7800	17	7400	16	7000	16	387	34000
33000	382					15700	40	14300	36	13200	32	12200	30	11400	28	10700	26	10100	23	9500	22	9000	21	8500	19	8000	18	7600	16	7200	15	6800	15	382	33000
32000	377	16400	41	15900	40	14500	36	13400	33	12500	30	11600	28	10900	26	10300	24	9700	22	9200	21	8700	20	8200	18	7800	17	7400	16	7000	15	6700	14	377	32000
31000	372	15300	37	14900	36	13600	33	12700	30	11900	28	11100	26	10400	25	9900	22	9300	21	8800	20	8400	19	7900	17	7500	16	7100	15	6800	14	6500	14	372	31000
30000	367	14300	34	13900	33	12700	30	12000	28	11300	26	10600	24	10000	23	9500	21	9000	20	8500	19	8100	18	7700	16	7300	15	6900	14	6600	13	6300	13	367	30000
29000	362	13400	31	13100	31	12100	28	11400	26	10800	24	10100	22	9600	22	9100	20	8600	19	8200	18	7800	17	7480	15	7000	14	6700	13	6400	13	6100	13	362	29000
28000	357	12600	29	12300	28	11500	26	10800	24	10200	23	9700	21	9200	20	8700	19	8300	18	7900	17	7500	16	7200	15	6800	14	6500	13	6200	12	5900	12	357	28000
27000	353	11900	27	11700	26	10900	24	10300	22	9700	21	9300	20	8800	19	8300	18	8000	17	7600	16	7200	15	6900	14	6600	13	6300	12	6000	12	5700	12	353	27000
26000	350	11300	25	11100	24	10400	23	9800	21	9300	20	8900	19	8500	18	8000	17	7700	16	7300	15	7000	14	6700	13	6400	12	6100	12	5800	11	5600	11	350	26000
25000	346	10800	23	10500	22	9900	21	9400	20	8900	19	8500	18	8100	17	7700	16	7400	15	7000	14	6700	14	6400	12	6200	12	5900	11	5600	11	5400	11	346	25000
24000	342	10200	22	10000	21	9500	20	9000	19	8600	18	8200	17	7800	16	7400	15	7100	14	6800	13	6500	13	6200	12	6000	11	5700	11	5500	10	5300	10	342	24000
23000	338	9700	20	9500	20	9100	19	8600	18	8200	17	7800	16	7500	15	7100	14	6800	13	6500	12	6300	12	6000	11	5800	11	5500	10	5300	10	5100	10	338	23000
22000	335	9300	19	9100	19	8700	18	8300	17	7900	16	7500	15	7200	14	6900	13	6600	12	6300	12	6100	12	5800	11	5600	10	5300	10	5100	9	5000	9	335	22000
21000	331	8800	18	8700	17	8300	17	7900	16	7500	15	7200	14	6900	13	6600	12	6300	12	6100	11	5900	11	5600	10	5400	10	5100	9	4900	9	4800	9	331	21000
20000	329	8400	17	8300	16	7900	15	7600	15	7200	14	6900	13	6600	13	6400	12	6100	11	5900	11	5700	10	5400	10	5200	9	5000	9	4800	8	4700	8	329	20000
19000	326	8000	16	7900	15	7500	14	7200	14	6900	13	6600	12	6300	12	6100	11	5800	11	5700	10	5500	10	5200	9	5000	9	4800	8	4600	8	4500	8	326	19000
18000	324	7600	15	7500	14	7200	13	6900	13	6600	13	6300	12	6100	11	5900	10	5600	10	5500	10	5300	9	5000	9	4900	8	4700	8	4500	8	4400	7	324	18000
17000	321	7200	14	7100	13	6900	12	6600	12	6300	12	6000	11	5800	10	5600	10	5400	10	5300	9	5100	9	4800	8	4700	8	4500	7	4300	7	4200	7	321	17000
16000	318	6900	13	6800	13	6600	12	6300	11	6100	11	5800	10	5600	10	5400	9	5200	9	5100	9	4900	8	4700	8	4600	8	4400	7	4200	7	4100	7	318	16000
15000	316	6500	12	6400	12	6200	11	6000	11	5800	11	5500	10	5300	9	5100	9	5000	9	4900	8	4700	8	4500	8	4400	7	4200	7	4000	7	3900	6	316	15000
14000	313	6200	12	6100	11	5900	11	5700	10	5500	10	5300	9	5100	9	4900	8	4800	8	4700	8	4500	7	4300	7	4200	7	4100	6	3900	6	3800	6	313	14000
13000	311	5900	11	5800	10	5600	10	5400	9	5200	9	5000	9	4900	8	4700	8	4600	8	4500	7	4300	7	4100	6	4000	6	3900	6	3800	6	3700	6	311	13000
12000	308	5600	10	5500	9	5300	9	5200	9	5000	8	4800	8	4700	8	4500	7	4400	7	4300	7	4100	6	4000	6	3900	6	3800	6	3700	6	3600	5	308	12000
11000	306	5200	9	5200	9	5000	8	4900	8	4700	8	4500	8	4400	7	4300	7	4200	7	4100	6	3900	6	3800	6	3700	6	3600	5	3500	5	3400	5	306	11000
10000	304	4900	8	4900	8	4700	8	4600	8	4500	7	4300	7	4200	7	4100	6	4000	6	3900	6	3700	5	3600	5	3600	5	3500	5	3400	5	3300	5	304	10000
9000	301	4600	8	4600	7	4400	7	4300	7	4200	7	4100	7	4000	6	3900	6	3800	5	3700	5	3500	5	3400	5	3400	5	3300	5	3200	5	3100	4	301	9000
8000	299	4300	7	4300	7	4200	6	4100	6	4000	6	3900	6	3800	6	3700	5	3600	5	3500	5	3400	5	3300	5	3300	5	3200	4	3100	4	3000	4	299	8000
7000	297	4000	6	4000	6	3900	6	3800	6	3700	6	3600	6	3500	5	3500	5	3400	5	3300	4	3200	4	3100	4	3100	4	3000	4	2900	4	2800	4	297	7000
6000	295	3700	6	3700	6	3600	5	3500	5	3500	5	3400	5	3300	5	3300	4	3200	4	3100	4	3000	4	3000	4	2900	4	2900	4	2800	4	2700	4	295	6000
5000	293	3400	5	3400	5	3300	5	3200	5	3200	5	3100	5	3100	5	3000	4	3000	4	2900	4	2800	4	2700	4	2700	3	2700	3	2600	3	2600	3	293	5000
4000	291	3100	4	3100	4	3100	4	3000	4	3000	4	2900	4	2900	4	2800	4	2800	4	2700	3	2700	3	2700	3	2600	3	2600	3	2600	3	2500	3	291	4000
3000	289	2800	3	2800	3	2800	3	2700	3	2700	3	2600	3	2600	3	2600	3	2600	3	2500	3	2500	3	2500	3	2400	3	2400	3	2400	3	2300	3	289	3000
2000	287	2500	3	2500	3	2500	3	2500	3	2500	3	2400	3	2400	3	2400	3	2400	3	2400	3	2300	3	2300	3	2300	2	2300	2	2300	2	2200	2	287	2000
1000	285	2200	2	2200	2	2200	2	2200	2	2200	2	2200	2	2200	2	2200	2	2200	2	2100	2	2100	2	2100	2	2100	2	2100	2	2100	2	2100	2	285	1000
0	283	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	283	0

Note.
1. Fuel and Time include 2,000 lb. and 2 minute take-off allowances.
2. To obtain Distance multiply T.A.S. by climb time less 2 minutes.
3. High level airfields. a) T.A.S. = Add T.A.S. for airfield and cruise altitude and subtract 283 kts. distance = mean T.A.S. x time difference.
   b) Fuel is difference between airfield and cruise altitude + 2,000 lb.
   c) Time is difference between airfield and cruise altitude + 2 minutes.

J.S.A. temperature at 15,000 ftt - 12°C
J.S.A. temperature at 20,000 ftt - 25°C

TABLE 21B

J.S.A. -7°C TO -3°C

INFORMATION TO BE SUPPLIED LATER.

TABLE 21C
J.S.A.—2°C TO +2°C

3 ENGINE CLIMB

PRESSURE HEIGHT FEET	MEAN T.A.S. KTS	TAKE - OFF WEIGHT - LB. 323000 FUEL LB	323000 TIME MIN	320000 FUEL LB	320000 TIME MIN	310000 FUEL LB	310000 TIME MIN	300000 FUEL LB	300000 TIME MIN	290000 FUEL LB	290000 TIME MIN	280000 FUEL LB	280000 TIME MIN	270000 FUEL LB	270000 TIME MIN	260000 FUEL LB	260000 TIME MIN	250000 FUEL LB	250000 TIME MIN	240000 FUEL LB	240000 TIME MIN	230000 FUEL LB	230000 TIME MIN	220000 FUEL LB	220000 TIME MIN	210000 FUEL LB	210000 TIME MIN	200000 FUEL LB	200000 TIME MIN	190000 FUEL LB	190000 TIME MIN	180000 FUEL LB	180000 TIME MIN	MEAN T.A.S. KTS.	PRESSURE HEIGHT FEET
43000	455																									14100	44	12500	40	11100	36	9900	32	435	43000
42000	448																									12900	40	11600	36	10500	32	9700	28	448	42000
41000	442																					14800	46	14500	45	12000	36	10900	32	10000	29	9300	26	442	41000
40000	436																					13700	42	12400	38	11300	34	10400	29	9600	27	9000	25	436	40000
39000	430																			14300	44	12900	39	11700	35	10800	32	10000	27	9300	25	8800	24	430	39000
38000	424																	14900	45	13400	40	12200	36	11200	33	10400	30	9600	26	9000	24	8500	23	424	38000
37000	418															16100	49	14100	42	12700	37	11700	33	10800	31	10000	28	9400	25	8800	23	8300	22	418	37000
36000	412													16800	50	14900	44	13400	39	12300	35	11300	31	10500	29	9800	26	9200	24	8600	22	8100	21	412	36000
35000	406													15600	45	14000	40	12700	36	11700	32	10800	29	10100	27	9400	24	8900	23	8300	21	7800	20	406	35000
34000	400											16100	47	14400	41	13200	36	12100	33	11200	30	10400	28	9700	25	9100	23	8600	22	8100	20	7600	19	400	34000
33000	394											14900	42	13500	37	12400	33	11500	30	10700	28	10000	26	9300	23	8800	21	8300	20	7800	19	7400	18	394	33000
32000	388							16800	47	15100	42	13800	37	12700	34	11700	31	10900	28	10200	26	9600	24	9000	22	8500	20	8000	19	7600	18	7200	17	388	32000
31000	382					17300	48	15500	42	14100	38	12900	34	12000	31	11100	29	10400	26	9700	24	9200	22	8600	21	8200	19	7700	19	7300	17	6900	16	382	31000
30000	376	18200	50	17400	48	15600	42	14300	38	13100	34	12100	31	11300	29	10600	27	9900	25	9300	23	8800	21	8300	20	7900	18	7500	18	7100	16	6700	15	376	30000
29000	371	16700	45	16100	43	14600	38	13400	35	12400	31	11500	29	10700	27	10100	25	9500	23	8900	21	8500	20	8000	19	7600	18	7200	17	6800	16	6500	15	371	29000
28000	366	15300	40	14800	39	13600	35	12500	32	11700	29	10900	27	10200	25	9600	23	9100	22	8600	20	8200	19	7700	18	7300	17	7000	16	6600	15	6300	14	366	28000
27000	361	14300	36	13900	35	12800	32	11800	29	11100	27	10000	25	9800	23	9200	21	8700	20	8300	19	7900	18	7400	17	7000	16	6700	15	6400	14	6100	13	361	27000
26000	357	13300	33	13000	32	12000	29	11200	27	10500	25	9900	23	9400	22	8800	20	8400	19	8000	18	7600	17	7200	16	6800	15	6500	14	6200	13	5900	13	357	26000
25000	353	12500	30	12300	29	11400	27	10600	25	10100	24	9400	22	9000	20	8400	19	8000	18	7700	17	7300	16	6900	15	6600	14	6300	13	6000	13	5700	12	353	25000
24000	349	11800	28	11600	27	10800	25	10100	24	9600	22	9000	21	8600	19	8100	18	7700	17	7400	16	7000	15	6700	14	6400	13	6100	13	5800	12	5600	11	349	24000
23000	345	11200	26	11000	25	10300	23	9600	22	9100	20	8600	19	8200	18	7800	17	7400	16	7100	15	6700	14	6400	13	6200	13	5900	12	5600	12	5400	11	345	23000
22000	342	10700	24	10400	24	9800	22	9200	21	8700	19	8300	18	7900	17	7500	16	7100	15	6800	14	6500	13	6200	12	6000	12	5700	11	5400	11	5200	10	342	22000
21000	338	10100	22	9900	22	9300	20	8800	20	8300	18	7900	17	7500	16	7200	15	6800	15	6500	13	6200	12	6000	12	5800	12	5500	11	5200	11	5000	10	338	21000
20000	335	9600	21	9400	21	8800	19	8400	18	8000	17	7600	16	7200	15	6900	14	6600	14	6300	13	6000	12	5800	11	5600	11	5300	10	5100	10	4900	9	335	20000
19000	332	9100	19	8900	19	8400	18	8000	17	7600	16	7200	15	6900	14	6600	13	6300	12	6000	12	5800	11	5600	10	5400	10	5100	10	4900	10	4700	9	332	19000
18000	329	8600	18	8400	18	8000	17	7600	16	7300	15	6900	14	6600	13	6300	12	6100	12	5800	11	5600	11	5400	10	5200	10	4900	9	4700	9	4600	9	329	18000
17000	326	8100	17	8000	17	7600	16	7200	15	6900	14	6600	13	6300	12	6000	12	5800	11	5600	11	5400	10	5200	9	5000	9	4700	9	4500	9	4400	8	326	17000
16000	323	7700	16	7600	16	7200	15	6900	14	6600	13	6300	13	6100	12	5800	11	5600	11	5400	10	5200	10	5000	9	4800	9	4600	8	4400	8	4300	8	323	16000
15000	320	7300	15	7200	15	6800	14	6500	13	6300	12	6000	12	5800	11	5500	10	5300	10	5100	10	5000	10	4800	9	4600	8	4400	8	4200	8	4100	8	320	15000
14000	318	6900	14	6800	14	6500	13	6200	12	6000	11	5700	11	5500	10	5300	10	5100	10	4900	9	4800	9	4600	8	4400	8	4200	8	4100	7	4000	7	318	14000
13000	315	6500	13	6400	13	6100	12	5900	11	5700	10	5400	10	5200	10	5000	9	4900	9	4700	9	4600	9	4400	8	4200	8	4000	7	3900	7	3800	7	315	13000
12000	313	6200	12	6100	12	5800	11	5600	10	5400	10	5200	9	5000	9	4800	9	4700	8	4500	8	4400	8	4200	7	4100	7	3900	7	3800	6	3700	6	313	12000
11000	310	5800	11	5700	11	5400	10	5200	9	5100	9	4900	9	4700	9	4500	8	4400	8	4300	7	4200	7	4000	7	3900	7	3700	6	3600	6	3500	6	310	11000
10000	308	5400	10	5400	10	5100	9	4900	8	4800	8	4600	8	4500	8	4300	8	4200	7	4100	7	4000	7	3800	6	3700	6	3600	6	3500	6	3400	6	308	10000
9000	306	5000	9	5000	9	4800	8	4600	8	4500	7	4300	7	4200	7	4100	7	4000	7	3900	6	3800	6	3600	6	3500	6	3400	6	3300	5	3200	5	306	9000
8000	304	4700	8	4700	8	4500	8	4400	7	4200	7	4100	7	4000	7	3900	6	3800	6	3700	6	3600	6	3500	5	3400	5	3300	5	3200	5	3100	5	304	8000
7000	302	4300	7	4300	7	4100	7	4100	6	3900	6	3800	6	3700	6	3600	6	3500	6	3400	5	3400	5	3300	5	3200	5	3100	5	3000	4	2900	4	302	7000
6000	300	3900	7	3900	6	3800	6	3800	6	3600	6	3500	5	3500	5	3400	5	3300	5	3200	5	3200	5	3100	5	3000	4	2900	4	2900	4	2800	4	300	6000
5000	298	3600	6	3600	6	3500	5	3500	5	3300	5	3200	5	3200	5	3100	4	3100	4	3000	4	3000	4	2900	4	2800	4	2700	4	2700	3	2700	3	298	5000
4000	296	3300	5	3300	5	3200	5	3200	5	3100	4	3000	4	3000	4	2900	4	2900	4	2800	4	2800	4	2700	4	2700	4	2600	3	2600	3	2600	3	296	4000
3000	294	2900	4	2900	4	2900	4	2900	4	2800	4	2700	4	2700	4	2600	3	2600	3	2600	3	2600	3	2500	3	2500	3	2400	3	2400	3	2400	3	294	3000
2000	292	2600	4	2600	4	2600	4	2600	3	2500	3	2500	3	2500	3	2400	3	2400	3	2400	3	2400	3	2300	3	2300	3	2300	3	2300	2	2300	2	292	2000
1000	290	2300	3	2300	3	2300	3	2300	2	2200	2	2200	2	2200	2	2200	2	2200	2	2200	2	2200	2	2100	2	2100	2	2100	2	2100	2	2100	2	290	1000
0	288	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	288	0

NOTE.
1. Fuel and Time include 2,000 lb. and 2 minute take-off allowances.
2. To obtain Distance multiply T.A.S. by climb time less 2 minutes.
3. High level airfields. a) T.A.S. = Add T.A.S. for airfield and cruise altitude and subtract 288 kts.
   distance = mean T.A.S. x time difference.
   b) Fuel is difference between airfield and cruise altitude + 2,000 lb.
   c) Time is difference between airfield and cruise altitude + 2 minutes.

J.S.A. temperature at 15,000 ft: - 15°C
J.S.A. temperature at 20,000 ft: - 25°C

TABLE 21D

J.S.A. +3°C TO +7°C

INFORMATION TO BE SUPPLIED LATER.

TABLE 21E
J.S.A.+8°C TO +12°C

3 ENGINE CLIMB

PRESSURE HEIGHT FEET	MEAN T.A.S KTS	TAKE-OFF WEIGHT - LB. 323000 FUEL LB	TIME MIN	320000 FUEL LB	TIME MIN	310000 FUEL LB	TIME MIN	300000 FUEL LB	TIME MIN	290000 FUEL LB	TIME MIN	280000 FUEL LB	TIME MIN	270000 FUEL LB	TIME MIN	260000 FUEL LB	TIME MIN	250000 FUEL LB	TIME MIN	240000 FUEL LB	TIME MIN	230000 FUEL LB	TIME MIN	220000 FUEL LB	TIME MIN	210000 FUEL LB	TIME MIN	200000 FUEL LB	TIME MIN	190000 FUEL LB	TIME MIN	180000 FUEL LB	TIME MIN	MEAN T.A.S. KTS	PRESSURE HEIGHT FEET
43000	493																									17000	56	15000	54	13000	46	493	43000
42000	485																							16800	58	14600	51	12900	47	11800	41	485	42000
41000	477																							15300	53	13400	47	12000	42	11000	37	477	41000
40000	469																							16200	54	14400	48	12800	43	11500	40	10500	33	469	40000
39000	461																					16800	58	15300	50	13600	44	12200	40	11000	36	10100	31	461	39000
38000	453																					16000	54	14500	47	13000	41	11700	37	10600	33	9800	29	453	38000
37000	447																					15300	50	13800	44	12500	39	11300	35	10300	31	9500	28	447	37000
36000	439																			16600	55	14600	47	13100	41	11900	36	10900	33	10100	30	9300	27	439	36000
35000	431																			15500	50	13800	43	12400	38	11400	34	10400	31	9700	28	9000	25	431	35000
34000	423																			14400	45	13000	39	11800	35	10900	32	10000	29	9300	26	8700	24	423	34000
33000	414																	15000	46	13500	41	12200	36	11200	32	10400	30	9600	27	8900	24	8400	23	414	33000
32000	405															15400	47	13800	41	12600	37	11500	33	10600	30	9900	28	9200	25	8600	23	8100	22	405	32000
31000	397															14200	42	12900	37	11800	34	10900	30	10100	28	9400	26	8800	23	8200	23	7800	20	397	31000
30000	389											16100	48	14400	42	13100	38	12000	34	11100	31	10300	28	9600	26	9000	24	8400	22	7900	21	7500	19	389	30000
29000	382											14800	43	13400	38	12300	34	11300	31	10500	29	9800	26	9200	24	8600	23	8100	21	7600	19	7200	18	382	29000
28000	376					16700	48	15000	43	13600	38	12500	34	11500	31	10700	29	10000	27	9400	24	8800	23	8200	21	7800	20	7300	18	6900	17	376	28000
27000	371					15400	43	13900	39	12700	35	11800	31	10900	29	10200	27	9500	25	8900	22	8400	21	7900	20	7500	19	7000	18	6600	17	371	27000
26000	366			17500	50	15600	44	14100	39	12900	35	11900	32	11100	29	10300	27	9700	25	9100	23	8500	21	8100	20	7600	19	7200	18	6800	17	6400	16	366	26000
25000	361	16800	46	16100	45	14500	40	13300	36	12200	32	11300	29	10500	27	9800	25	9200	23	8700	21	8100	20	7700	19	7300	18	6900	17	6500	16	6200	15	361	25000
24000	357	15300	41	14800	40	13500	36	12400	33	11500	30	10700	27	10000	25	9400	23	8800	22	8300	20	7800	19	7400	18	7000	17	6700	16	6300	15	6000	14	357	24000
23000	353	14200	37	13800	36	12600	33	11700	30	10900	28	10100	25	9500	23	8900	22	8400	20	7900	19	7500	18	7100	17	6700	16	6400	15	6100	14	5800	13	353	23000
22000	349	13200	34	12900	33	11800	30	11000	28	10300	26	9600	24	9000	22	8500	21	8000	19	7600	18	7200	17	6800	16	6500	15	6200	14	5900	13	5600	12	349	22000
21000	345	12400	31	12100	30	11100	28	10400	26	9700	24	9100	22	8600	20	8100	19	7700	18	7300	17	6900	16	6500	15	6200	14	6000	13	5700	12	5400	12	345	21000
20000	342	11600	29	11300	28	10500	26	9800	24	9200	22	8700	21	8200	19	7800	18	7400	17	7000	16	6700	15	6300	14	6000	13	5800	12	5500	12	5300	11	342	20000
19000	339	10900	27	10600	26	9900	24	9300	22	8700	20	8300	19	7800	18	7400	17	7000	16	6700	15	6400	14	6000	13	5800	12	5500	12	5300	11	5100	10	339	19000
18000	336	10300	25	10000	24	9400	22	8800	21	8300	19	7900	18	7400	17	7100	16	6700	15	6400	14	6100	13	5800	12	5600	12	5300	11	5100	10	4900	10	336	18000
17000	333	9700	23	9400	22	8900	20	8300	19	7900	18	7500	17	7100	16	6700	15	6400	14	6100	13	5800	12	5600	12	5400	11	5100	10	4900	10	4700	9	333	17000
16000	330	9100	21	8900	21	8400	19	7900	18	7500	17	7100	16	6800	15	6400	14	6100	13	5900	12	5600	12	5400	11	5200	10	4900	10	4700	9	4500	9	330	16000
15000	327	8500	19	8400	19	7900	17	7500	16	7100	15	6700	15	6400	14	6100	13	5800	12	5600	11	5300	11	5100	10	4900	10	4700	9	4500	9	4300	8	327	15000
14000	324	8000	18	7900	18	7400	16	7100	15	6700	14	6400	14	6100	13	5800	12	5500	11	5300	11	5100	10	4900	9	4700	9	4500	9	4300	8	4200	8	324	14000
13000	321	7500	16	7400	16	7000	15	6700	14	6300	13	6000	13	5800	12	5500	11	5200	10	5000	10	4900	9	4700	9	4500	8	4300	8	4100	8	4000	7	321	13000
12000	319	7000	15	6900	15	6600	14	6300	13	6000	12	5700	12	5500	11	5200	10	5000	10	4800	9	4700	9	4500	8	4300	8	4200	8	4000	7	3900	6	319	12000
11000	316	6500	14	6400	13	6100	13	5900	12	5600	11	5300	11	5200	10	4900	10	4700	9	4500	9	4400	8	4200	8	4100	7	4000	7	3800	6	3700	6	316	11000
10000	314	6100	13	6000	12	5700	12	5500	11	5300	10	5000	10	4900	9	4600	9	4500	8	4300	8	4200	8	4000	7	3900	7	3800	6	3600	6	3600	6	314	10000
9000	312	5600	11	5600	11	5300	10	5100	10	4900	9	4700	9	4600	8	4300	8	4200	7	4100	7	4000	7	3800	6	3700	6	3600	6	3400	6	3400	5	312	9000
8000	310	5200	10	5200	10	5000	9	4800	9	4600	9	4400	8	4300	8	4100	7	4000	7	3900	7	3800	6	3600	6	3500	6	3400	6	3300	5	3300	5	310	8000
7000	307	4800	9	4700	9	4600	9	4400	8	4200	8	4100	7	4000	7	3800	7	3700	6	3600	6	3500	6	3400	5	3300	5	3200	5	3100	5	3100	5	307	7000
6000	305	4400	8	4300	8	4200	8	4100	7	3900	7	3800	6	3700	6	3600	6	3500	5	3400	5	3300	5	3200	5	3100	5	3000	5	3000	4	2900	4	305	6000
5000	303	4000	7	3900	7	3800	7	3700	6	3600	6	3500	6	3400	5	3300	5	3200	5	3100	5	3100	5	3000	4	2900	4	2800	4	2800	4	2700	4	303	5000
4000	301	3600	6	3500	6	3400	6	3400	5	3300	5	3200	5	3100	5	3100	5	3000	4	2900	4	2900	4	2800	4	2800	4	2700	4	2700	4	2600	4	301	4000
3000	299	3200	5	3100	5	3000	5	3000	5	2900	4	2900	4	2800	4	2800	4	2700	4	2600	4	2600	3	2600	3	2600	3	2500	3	2500	3	2400	3	299	3000
2000	297	2800	4	2700	4	2700	4	2700	4	2600	4	2600	4	2500	3	2500	3	2500	3	2400	3	2400	3	2400	3	2400	3	2300	3	2300	3	2300	3	297	2000
1000	295	2400	3	2300	3	2300	3	2300	3	2300	3	2300	3	2200	3	2200	2	2200	2	2200	2	2200	2	2200	2	2200	2	2100	2	2100	2	2100	2	295	1000
0	293	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	293	0

NOTE.
1. Fuel and Time include 2,000 lb. and 2 minute take-off allowances.
2. To obtain Distance multiply T.A.S. by climb time less 2 minutes.
3. High level airfields. a) T.A.S. = Add T.A.S. for airfield and cruise altitude and subtract 293 kts. distance = mean T.A.S. x time difference.
   b) Fuel is difference between airfield and cruise altitude + 2,000 lb.
   c) Time is difference between airfield and cruise altitude + 2 minutes.

J.S.A. temperature at 15,000 ft: - 15°C
J.S.A. temperature at 20,000 ft: - 25°C

TABLE 21F
J.S.A. +13°C TO +17°C

INFORMATION TO BE SUPPLIED LATER.

TABLE 21G
J.S.A.+18°C TO +22°C

5 ENGINE CLIMB

PRESSURE HEIGHT FEET	MEAN T.A.S KTS.	TAKE OFF WEIGHT LB/1000																														MEAN T.A.S KTS.	PRESSURE HEIGHT FEET
		323000		320000		310000		300000		290000		280000		270000		260000		250000		240000		230000		220000		210000		200000		190000		180000			
		FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins		
43000	512																															512	43000
42000	504																															504	42000
41000	496																															496	41000
40000	488																															488	40000
39000	480																															480	39000
38000	472																													14000	53	472	38000
37000	464																													13300	48	464	37000
36000	456																													12600	44	456	36000
35000	448																															448	35000
34000	440																											13400	46	12000	40	440	34000
33000	432																											12400	41	11200	36	432	33000
32000	424																									12800	42	11500	37	10500	33	424	32000
31000	416																									12900	43	11600	37	10600	33	9800	30	416	31000
30000	408																							13100	42	11800	37	10800	33	10000	30	9200	27	408	30000
29000	403																					13400	42	12000	38	11000	34	10100	30	9400	27	8700	25	403	29000
28000	395																			13700	43	12400	38	11300	34	10400	31	9600	28	8900	25	8300	23	395	28000
27000	387																	13900	43	12600	39	11600	34	10600	31	9800	28	9100	26	8500	23	7900	21	387	27000
26000	379													16000	50	14300	43	12900	39	11800	35	10900	31	10000	29	9300	26	8800	24	8100	22	7600	20	379	26000
25000	373													14600	45	13200	39	12000	35	11100	32	10200	29	9500	27	8900	24	8300	23	7800	20	7300	19	373	25000
24000	368									16900	51	15000	45	13500	40	12300	36	11300	32	10500	29	9700	27	9000	25	8400	23	7900	22	7400	19	7000	18	368	24000
23000	363									15400	46	13900	41	12600	36	11500	33	10700	29	9900	27	9200	25	8600	23	8100	21	7600	20	7100	18	6700	17	363	23000
22000	358							15800	46	14200	41	12900	37	11800	33	10900	30	10100	27	9400	25	8800	23	8200	21	7700	20	7300	18	6800	17	6400	16	358	22000
21000	354					16400	47	14600	42	13200	37	12000	39	11100	30	10300	28	9500	25	8900	24	8300	21	7800	20	7400	18	7000	17	6700	16	6300	15	6000	14	350	20000
20000	350	17700	51	16900	49	15000	42	13500	38	12300	34	11300	31	10400	28	9700	26	9000	24	8500	22	7900	20	7500	19	7000	17	6700	16	6400	15	6000	14	5700	13	346	19000
19000	346	16100	46	15500	44	13900	38	12600	34	11500	31	10600	28	9800	26	9200	24	8600	22	8000	20	7600	19	7200	18	6800	16	6400	15	6100	14	5800	13	5500	13	343	18000
18000	343	14800	41	14200	39	12800	35	11700	31	10800	29	10000	26	9300	24	8700	22	8100	20	7600	19	7200	18	6800	16	6500	15	6100	14	5800	13	5500	13	5300	12	339	17000
17000	339	13600	37	13100	35	11900	32	10900	28	10100	26	9400	24	8800	22	8200	20	7700	19	7300	17	6800	16	6500	15	6100	14	5800	13	5600	13	5300	12	5100	11	336	16000
16000	336	12500	33	12200	32	11100	29	10200	26	9500	24	8800	22	8300	21	7800	19	7300	18	6900	16	6500	15	6200	14	5900	13	5600	13	5300	12	5000	11	4900	10	333	15000
15000	333	11600	30	11200	29	10300	26	9600	24	8900	22	8300	20	7800	19	7300	17	6900	16	6500	15	6200	14	5900	13	5600	13	5300	12	5100	11	4800	10	4700	10	330	14000
14000	330	10700	27	10400	27	9600	24	8900	22	8300	20	7800	19	7300	17	6900	16	6500	15	6200	14	5900	13	5600	12	5300	12	5000	11	4800	10	4600	10	4500	9	327	13000
13000	327	9900	25	9600	24	8900	22	8300	20	7800	18	7300	17	6900	16	6500	15	6200	14	5900	13	5700	13	5500	12	5300	11	4800	10	4600	10	4400	9	4300	8	325	12000
12000	325	9200	23	8900	22	8300	20	7800	18	7300	17	6900	16	6500	15	6100	14	5800	13	5500	12	5300	11	5000	10	4700	10	4500	9	4300	8	4200	8	4100	8	322	11000
11000	322	8500	20	8200	20	7700	18	7200	16	6800	15	6400	14	6100	13	5700	13	5500	12	5200	11	4900	10	4700	9	4500	9	4300	8	4100	8	4000	7	3900	7	320	10000
10000	320	7800	18	7600	18	7100	16	6700	15	6300	14	6000	13	5700	12	5400	12	5100	11	4900	10	4700	9	4500	9	4300	8	4100	8	4000	7	3900	7	3700	7	317	9000
9000	317	7100	16	7000	16	6500	14	6200	13	5800	12	5500	12	5300	11	5000	10	4800	10	4600	9	4400	8	4200	8	4100	8	3900	7	3800	7	3700	7	3600	6	315	8000
8000	315	6500	14	6400	14	6000	13	5700	12	5400	11	5100	11	4900	10	4700	9	4500	9	4300	8	4100	8	4000	8	3900	7	3700	7	3600	6	3500	6	3400	6	312	7000
7000	312	5900	12	5800	12	5400	11	5200	10	4900	10	4700	9	4500	9	4300	8	4100	8	4000	8	3800	7	3700	7	3600	6	3500	6	3400	6	3300	5	3200	5	310	6000
6000	310	5300	11	5200	11	4900	10	4700	9	4500	9	4300	8	4200	8	4000	7	3800	7	3700	7	3600	6	3500	6	3400	6	3300	5	3200	5	3100	5	3100	5	308	5000
5000	308	4700	9	4600	9	4400	8	4200	8	4000	7	3900	7	3800	7	3600	6	3500	6	3400	6	3300	5	3200	5	3100	5	3100	5	3000	4	2900	4				
4000	306	4100	8	4100	8	3900	7	3800	7	3600	6	3500	6	3400	6	3300	6	3200	5	3100	5	3100	5	3000	5	2900	4	2900	4	2800	4	2700	4	306	4000
3000	304	3600	6	3500	6	3400	6	3300	5	3200	5	3100	5	3000	5	2900	4	2800	4	2700	4	2800	4	2700	4	2600	4	2600	3	2600	3	2500	3	304	3000
2000	302	3100	5	3000	5	2900	5	2900	4	2800	4	2700	4	2700	4	2600	4	2600	4	2500	4	2500	3	2500	3	2400	3	2400	3	2400	3	2300	3	302	2000
1000	300	2500	3	2500	3	2400	3	2400	3	2400	3	2300	3	2300	3	2300	3	2300	3	2300	3	2200	3	2200	2	2200	2	2200	2	2200	2	2100	2	300	1000
0	298	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	298	0

J.S.A. temperature 15,000 ft% - 15°C
J.S.A. temperature 20,000 ft% - 25°C

NOTE.
1. Fuel and Time include 2,000 lb. and 2 minute take-off allowances.
2. To obtain Distance multiply T.A.S. by climb time less 2 minutes.
3. High level airfields. a) T.A.S. = Add T.A.S. for airfield and cruise altitude and subtract 298 kts. distance = mean T.A.S. x time difference.
   b) Fuel is difference between airfield and cruise altitude + 2,000 lb.
   c) Time is difference between airfield and cruise altitude + 2 minutes.

TABLE 21H

J.S.A. +23°C TO +27°C

INFORMATION TO BE SUPPLIED LATER.

TABLE 21J
J.S.A.+28°C TO +32°C

3 ENGINE CLIMB

PRESSURE HEIGHT FEET	MEAN T.A.S KTS.	TAKE OFF WEIGHT LB/1000																												MEAN T.A.S KTS.	PRESSURE HEIGHT FEET
		323000		320000		310000		300000		290000		280000		270000		260000		250000		240000		230000		220000		210000		200000		190000		180000			
		FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins	FUEL lb.	TIME mins		
43000																																	43000
42000																																	42000
41000																																	41000
40000																																	40000
39000																																	39000
38000																																	38000
37000																																	37000
36000																																	36000
35000																																	35000
34000																																	34000
33000																																	33000
32000																																	32000
31000																																	31000
30000																																	30000
29000																																	29000
28000	400																															400	28000
27000	394																											12700	43	11400	38	394	27000
26000	388																									12900	44	12000	38	10600	34	388	26000
25000	383																									11800	39	10600	34	9800	31	383	25000
24000	378																							13600	45	12100	39	10900	35	10000	31	9100	28	378	24000
23000	373																					13900	46	12400	40	11200	35	10200	32	9300	28	8600	26	373	23000
22000	369																					12700	41	11500	36	10400	32	9500	29	8800	26	8100	24	369	22000
21000	365																			12900	41	11700	37	10600	33	9700	29	9000	26	8300	24	7700	22	365	21000
20000	361																	13300	42	12000	37	10900	33	9900	30	9200	27	8500	24	7900	22	7300	20	361	20000
19000	357															13700	42	12300	38	11100	33	10200	30	9300	27	8600	25	8000	22	7500	20	6900	19	357	19000
18000	353													14100	43	12600	38	11300	34	10300	30	9500	27	8700	25	8100	23	7600	21	7100	19	6600	18	353	18000
17000	349											14400	44	12900	39	11500	34	10500	31	9600	27	8900	25	8200	23	7700	21	7100	19	6700	17	6300	16	349	17000
16000	345									14900	45	13200	39	11800	35	10700	31	9800	28	9000	25	8300	23	7700	21	7200	19	6800	18	6400	16	6000	15	345	16000
15000	341							15400	46	13500	40	12000	35	10900	31	9900	28	9100	25	8400	23	7800	21	7300	19	6800	17	6400	16	6000	15	5700	14	341	15000
14000	338							13900	41	12300	36	11000	31	10000	28	9200	25	8500	23	7900	21	7300	19	6800	18	6400	16	6100	15	5700	14	5400	13	338	14000
13000	335					14200	42	12600	36	11200	32	10200	28	9300	25	8500	22	7900	21	7300	19	6900	17	6400	16	6000	15	5700	14	5400	13	5100	12	335	13000
12000	332					12800	37	11400	32	10300	28	9300	25	8600	23	7900	20	7300	19	6800	17	6400	16	6000	15	5700	14	5400	13	5100	12	4900	11	332	12000
11000	329	13700	39	13100	37	11500	32	10300	28	9400	25	8500	22	7900	20	7300	18	6800	17	6300	15	6000	14	5600	13	5300	12	5100	12	4800	11	4600	10	329	11000
10000	326	12200	34	11700	32	10400	28	9400	25	8500	22	6800	20	7200	18	6700	17	6300	15	5900	14	5600	13	5300	12	5000	11	4800	11	4500	10	4300	9	326	10000
9000	323	10600	29	10300	28	9300	24	8400	22	7700	19	7100	18	6600	16	6200	15	5800	13	5500	12	5200	12	4900	11	4700	10	4500	10	4200	9	4000	8	323	9000
8000	321	9300	25	9200	24	8300	21	7600	19	7000	17	6500	16	6100	14	5700	13	5400	12	5100	11	4800	11	4600	10	4400	9	4200	9	4000	8	3800	8	321	8000
7000	318	8300	21	8000	20	7400	18	6800	16	6300	15	5900	14	5500	12	5200	11	4900	10	4700	10	4400	9	4200	9	4000	8	3900	8	3700	7	3500	7	318	7000
6000	316	7400	18	7100	17	6500	16	6000	14	5600	13	5300	12	5000	11	4700	10	4500	9	4300	9	4100	8	3900	8	3700	7	3600	7	3500	6	3300	6	316	6000
5000	313	6400	15	6100	14	5700	14	5300	12	4900	11	4700	10	4400	9	4200	8	4000	8	3900	7	3700	7	3500	7	3400	6	3300	6	3200	6	3100	5	313	5000
4000	311	5400	12	5200	12	4900	12	4600	10	4300	9	4100	8	3900	8	3800	7	3600	7	3500	6	3400	6	3200	6	3200	5	3100	5	3000	5	2900	5	311	4000
3000	309	4500	9	4400	9	4100	9	3900	8	3700	7	3500	6	3400	6	3300	5	3200	5	3100	5	3000	5	2900	5	2900	4	2800	4	2700	4	2600	4	309	3000
2000	307	3600	7	3500	6	3400	6	3200	6	3100	5	3000	5	2900	5	2900	4	2800	4	2700	4	2700	4	2600	4	2600	3	2500	3	2500	3	2400	3	307	2000
1000	305	2800	3	2700	4	2700	4	2600	4	2500	4	2500	3	2400	3	2400	3	2400	3	2300	3	2300	3	2300	3	2300	2	2200	2	2200	2	2200	2	305	1000
0	303	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	2000	2	303	0

J.S.A. temperature 15,000 ft. - 15°C
J.S.A. temperature 20,000 ft. - 25°C

NOTE.
1. Fuel and Time include 2,000 lb. and 2 minute take-off allowances.
2. To obtain Distance multiply T.A.S. by climb time less 2 minutes.
3. High level airfields. a) T.A.S. = Add T.A.S. for airfield and cruise altitude and subtract 303 kts. distance = mean T.A.S. x time difference.
   b) Fuel is difference between airfield and cruise altitude + 2,000 lb.
   c) Time is difference between airfield and cruise altitude + 2 minutes.

3 ENGINE MAX. ALTITUDE AT 0.84 M_{IND} / 300 KTS. IAS.

TABLE 22

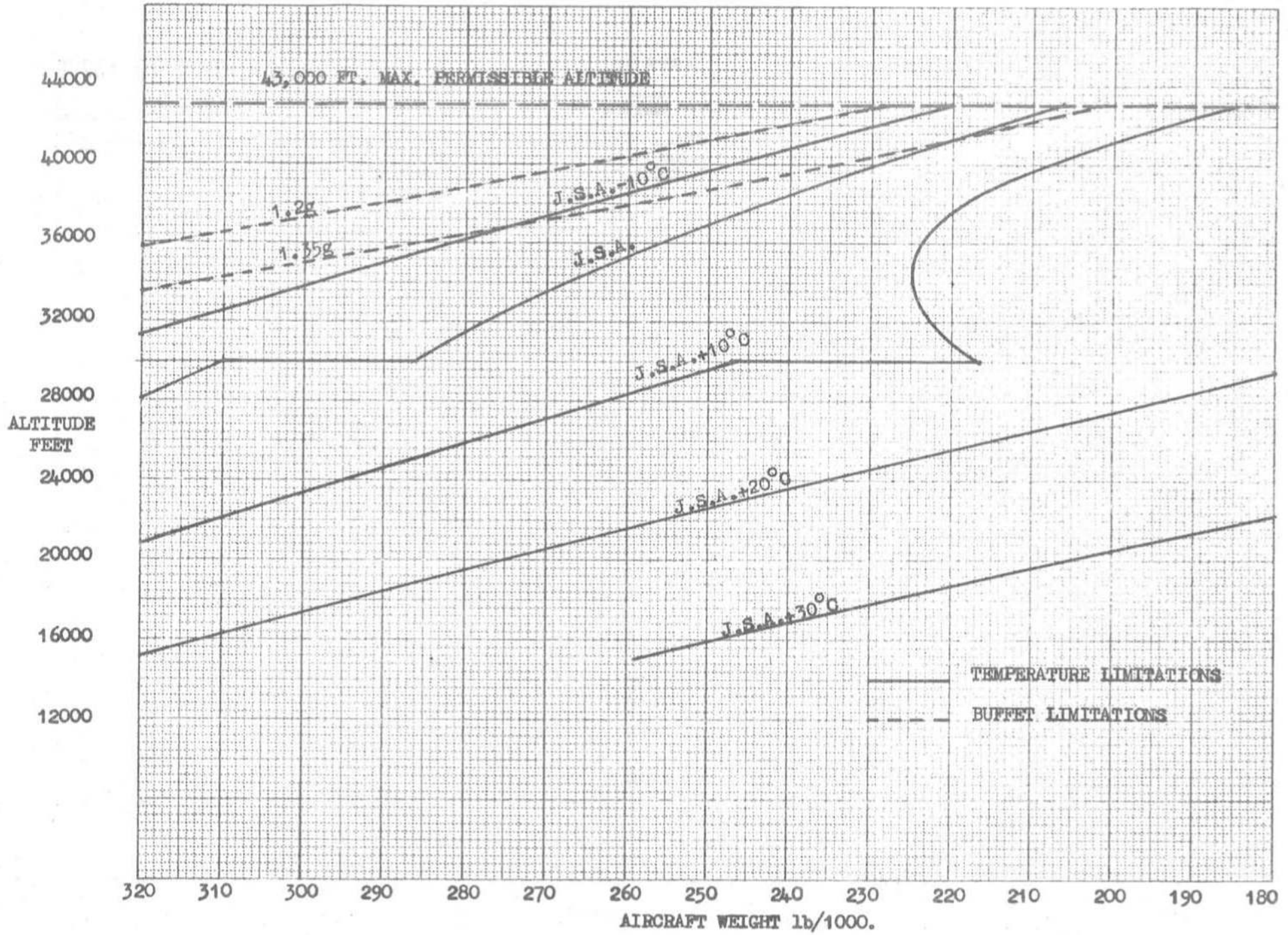

TABLE 23A

J.S.A.—12°C TO —8°C

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180		
43,000	440										12300	11000	10100	9400	8900	440	43,000
42,000	442										11600	10700	10000	9400	9000	442	42,000
41,000	445									12100	11200	10600	10000	9500	9200	445	41,000
40,000	447								12700	11800	11100	10500	10100	9700	9400	447	40,000
39,000	449							13200	12300	11700	11100	10700	10200	9900	9600	449	39,000
38,000	451						13500	12900	12200	11600	11200	10800	10400	10100	9800	451	38,000
37,000	454					14100	13400	12700	12200	11800	11400	11000	10700	10400	10100	454	37,000
36,000	456				14700	13900	13300	12800	12300	12000	11600	11300	11000	10700	10500	456	36,000
35,000	458			15200	14500	13900	13400	12900	12500	12200	11900	11600	11300	11100	10800	458	35,000
34,000	460			15000	14900	13900	13500	13200	12800	12500	12200	11900	11700	11400	11200	460	34,000
33,000	462		15500	15000	14500	14100	13800	13400	13100	12800	12500	12300	12000	11800	11600	462	33,000
32,000	465	16100	15600	15200	14800	14400	14100	13800	13500	13200	12900	12700	12500	12300	12100	465	32,000
31,000	467	16300	15800	15500	15100	14700	14400	14100	13900	13600	13400	13100	12900	12800	12600	467	31,000
30,000	469	16500	16100	15800	15400	15100	14800	14500	14300	14100	13800	13600	13400	13300	13100	469	30,000
29,000	441	15700	15300	14800	14400	14100	13700	13400	13100	12900	12600	12400	12300	12100	11900	441	29,000
28,000	434	15600	15200	14800	14400	14100	13700	13400	13100	12900	12600	12400	12300	12100	11900	434	28,000
27,000	427	15500	15100	14700	14300	14100	13700	13400	13100	12900	12600	12400	12300	12100	11900	427	27,000
26,000	421	15400	15000	14600	14300	14100	13700	13400	13100	12900	12600	12400	12300	12100	11900	421	26,000
25,000	415	15300	15000	14600	14300	14000	13700	13400	13100	12900	12700	12400	12300	12100	12000	415	25,000

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

TABLE 23B
J.S.A.—7°C TO —3°C

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180		
43,000	446											11100	10200	9500	9000	446	43,000
42,000	448										11800	10800	10100	9500	9100	448	42,000
41,000	450									12300	11300	10700	10100	9600	9200	450	41,000
40,000	453									11900	11200	10700	10200	9800	9500	453	40,000
39,000	455								12500	11800	11200	10800	10400	10000	9700	455	39,000
38,000								13000	12300	11800	11300	10900	10700	10200	9900	457	38,000
37,000	459						13600	12900	12300	11900	11500	11100	10800	10500	10200	459	37,000
36,000	461						13400	12900	12500	12100	11700	11400	11100	10800	10600	461	36,000
35,000	464					14000	13500	13100	12700	12400	12000	11700	11400	11200	11000	464	35,000
34,000	466				14600	14100	13700	13300	13000	12600	12300	12100	11800	11600	11400	466	34,000
33,000	468			15200	14700	14300	14000	13600	13300	13000	12700	12400	12200	12000	11800	468	33,000
32,000	470			15400	15000	14600	14200	13900	13600	13300	13100	12800	12600	12400	12200	470	32,000
31,000	472		16000	15600	15200	14900	14600	14300	14000	13700	13500	13300	13100	12900	12700	472	31,000
30,000	474	16700	16300	15900	15600	15300	15000	14700	14400	14200	14000	13800	13600	13400	13300	474	30,000
29,000	445	15800	15400	14900	14600	14300	13900	13600	13300	13100	12800	12600	12400	12200	12000	445	29,000
28,000	439	15700	15300	14900	14600	14300	13900	13600	13300	13100	12800	12600	12400	12200	12000	439	28,000
27,000	432	15600	15200	14800	14500	14300	13900	13600	13300	13100	12800	12600	12400	12200	12000	432	27,000
26,000	426	15500	15100	14800	14500	14200	13900	13600	13300	13100	12800	12600	12400	12200	12000	426	26,000
25,000	420	15500	15200	14800	14500	14200	13900	13600	13300	13100	12900	12600	12400	12200	12100	420	25,000

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

TABLE 23C

J.S.A.—2°C TO +2°C

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180	
43,000	451												10300	9700	9100	451	43,000
42,000	454											10900	10300	9700	9200	454	42,000
41,000	456										11500	10800	10300	9800	9400	456	41,000
40,000	458										11400	10800	10400	9900	9600	458	40,000
39,000	460									12000	11400	10900	10500	10100	9800	460	39,000
38,000	462								12400	11900	11400	11000	10700	10300	10000	462	38,000
37,000	465							13000	12500	12000	11600	11300	10900	10600	10400	465	37,000
36,000	467							13100	12600	12200	11900	11600	11200	11000	10700	467	36,000
35,000	469						13700	13200	12900	12500	12200	11900	11600	11300	11100	469	35,000
34,000	471					14300	13900	13500	13100	12800	12500	12200	11900	11700	11500	471	34,000
33,000	473					14500	14100	13700	13400	13100	12800	12600	12300	12100	11900	473	33,000
32,000	475					14700	14400	14100	13800	13500	13200	13000	12700	12500	12400	475	32,000
31,000	478				15400	15100	14800	14500	14200	13900	13700	13500	13200	13100	12900	478	31,000
30,000	480				15800	15500	15200	14900	14600	14400	14200	13900	13700	13600	13500	480	30,000
29,000	450	16000	15600	15100	14700	14400	14000	13700	13400	13200	12900	12700	12500	12300	12100	450	29,000
28,000	444	15900	15500	15100	14700	14400	14000	13700	13400	13100	12900	12700	12500	12300	12100	444	28,000
27,000	437	15800	15400	15000	14600	14400	14000	13700	13400	13200	12900	12700	12500	12300	12100	437	27,000
26,000	430	15100	15300	14900	14600	14300	14000	13700	13400	13200	12900	12700	12500	12300	12100	430	26,000
25,000	424	15600	15300	14900	14600	14300	14000	13700	13400	13200	13000	12700	12500	12300	12200	424	25,000

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

TABLE 23D
J.S.A.+3°C TO +7°C

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180		
43,000	457												10400	9800	9200	457	43,000
42,000	459												10400	9800	9300	459	42,000
41,000	461											10900	10400	9900	9500	461	41,000
40,000	464										11500	10900	10500	10000	9700	464	40,000
39,000	466										11500	11100	10700	10200	9900	466	39,000
38,000	468										11600	11200	10800	10500	10200	468	38,000
37,000	470									12200	11800	11400	11100	10800	10500	470	37,000
36,000	472								12800	12400	12000	11700	11400	11100	10800	472	36,000
35,000	474								13000	12600	12300	12000	11700	11400	11200	474	35,000
34,000	476							13600	13300	12900	12600	12300	12100	11800	11600	476	34,000
33,000	479							13900	13600	13300	13000	12700	12500	12300	12000	479	33,000
32,000	481							14200	13900	13700	13400	13100	12900	12700	12500	481	32,000
31,000	483							14600	14300	14100	13800	13600	13400	13200	13000	483	31,000
30,000	485							15000	14800	14500	14300	14100	13900	13700	13600	485	30,000
29,000	455					14500	14100	13800	13500	13300	13000	12800	12600	12400	12200	455	29,000
28,000	448				14800	14500	14100	13800	13500	13300	13000	12800	12600	12400	12200	448	28,000
27,000	441			15100	14700	14500	14100	13800	13500	13300	13000	12800	12600	12400	12200	441	27,000
26,000	434		15300	15000	14700	14400	14100	13800	13500	13300	13000	12800	12600	12400	12200	434	26,000
25,000	428	15800	15500	15000	14700	14400	14100	13800	13500	13300	13100	12800	12600	12400	12300	428	25,000

TABLE 23E

J.S.A.+8°C TO +12°C

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180	
43,000	462													9900	9300	462	43,000
42,000	465													9900	9400	465	42,000
41,000	467												10500	10000	9600	467	41,000
40,000	469												10600	10100	9800	469	40,000
39,000	471											11200	10700	10300	10000	471	39,000
38,000	473											11300	10900	10600	10300	473	38,000
37,000	475										11900	11500	11200	10900	10600	475	37,000
36,000	478										12200	11800	11500	11200	11000	478	36,000
35,000	480										12400	12100	11800	11600	11300	480	35,000
34,000	482										12800	12500	12200	12000	11700	482	34,000
33,000	484										13100	12900	12600	12400	12200	484	33,000
32,000	486										13500	13300	13000	12800	12600	486	32,000
31,000	488										13900	13700	13500	13300	13200	488	31,000
30,000	490											14200	14000	13900	13700	490	30,000
29,000	460							14000	13700	13500	13200	13000	12800	12500	12300	460	29,000
28,000	453						14300	14000	13700	13500	13200	13000	12800	12500	12300	453	28,000
27,000	446					14700	14300	14000	13700	13500	13200	13000	12800	12500	12300	446	27,000
26,000	439				14900	14600	14300	14000	13700	13500	13200	13000	12800	12500	12300	439	26,000
25,000	433				14900	14600	14300	14000	13700	13500	13300	13000	12800	12500	12400	433	25,000

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

TABLE 23F
J.S.A.+13°C TO +17°C

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180		
38,000	479												11100	10700	10400	479	38,000
37,000	481												11300	11000	10700	481	37,000
36,000	483												11600	11300	11100	483	36,000
35,000	485												12000	11700	11500	485	35,000
34,000	487													12100	11900	487	34,000
33,000	489													12500	12300	489	33,000
32,000	491														12800	491	32,000
31,000	493															493	31,000
30,000	495															495	30,000
29,000	464											13100	12900	12700	12500	464	29,000
28,000	457										13300	13100	12900	12700	12500	457	28,000
27,000	450									13600	13300	13100	12900	12700	12500	450	27,000
26,000	444									13600	13300	13100	12900	12700	12500	444	26,000
25,000	437								13800	13600	13400	13100	12900	12700	12600	437	25,000
24,000	430							14100	13800	13600	13400	13100	12900	12700	12600	430	24,000
23,000	424						14400	14100	13800	13600	13400	13100	12900	12700	12600	424	23,000
22,000	418					14700	14400	14100	13800	13600	13400	13200	13000	12800	12700	418	22,000
21,000	411				15000	14600	14400	14100	13800	13700	13500	13200	13000	12800	12700	411	21,000
20,000	405			15200	14900	14600	14400	14100	13900	13700	13500	13200	13000	12800	12700	405	20,000

TABLE 23G

J.S.A.+18°C TO +22°C

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180		
33,000	494															494	33,000
32,000	496															496	32,000
31,000	498															498	31,000
30,000	500															500	30,000
29,000	469														12600	469	29,000
28,000	462													12800	12600	462	28,000
27,000	455												13200	13000	12800	12600	455	27,000
26,000	448											13400	13200	13000	12800	12600	448	26,000
25,000	441										13700	13500	13200	13000	12800	12700	441	25,000
24,000	435										13700	13500	13200	13000	12800	12700	435	24,000
23,000	428									13900	13700	13500	13200	13000	12800	12700	428	23,000
22,000	422								14200	13900	13700	13500	13300	13100	12900	12800	422	22,000
21,000	415							14600	14200	13900	13800	13600	13300	13100	12900	12800	415	21,000
20,000	409						14800	14600	14200	14000	13800	13600	13300	13100	12900	12800	409	20,000
19,000	403					15100	14800	14500	14300	14000	13800	13600	13400	13200	13000	12900	403	19,000
18,000	397				15400	15100	14800	14600	14300	14100	13800	13600	13400	13200	13100	12900	397	18,000
17,000	392			15800	15500	15200	14900	14600	14400	14100	13900	13700	13500	13300	13100	13000	392	17,000
16,000	386			15800	15500	15200	14900	14600	14400	14100	13900	13700	13500	13300	13200	13000	386	16,000
15,000	380	16100	15800	15500	15200	14900	14700	14400	14200	14000	13800	13600	13400	13200	13000		380	15,000

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

TABLE 23H
J.S.A.+23°C TO +27°C

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR. 310	300	290	280	270	260	250	240	230	220	210	200	190	180	TAS KTS	PRESS. HEIGHT FEET
33,000	499															499	33,000
32,000	501															501	32,000
31,000	503															503	31,000
30,000	505															505	30,000
29,000	473															473	29,000
28,000	466															466	28,000
27,000	459															459	27,000
26,000	452															452	26,000
25,000	445														12800	445	25,000
24,000	439													12900	12800	439	24,000
23,000	432												13100	12900	12800	432	23,000
22,000	426										13700	13400	13200	13000	12900	426	22,000
21,000	419									14000	13800	13400	13200	13000	12900	419	21,000
20,000	413								14200	14000	13800	13400	13200	13000	12900	413	20,000
19,000	407							14400	14200	13900	13700	13500	13300	13200	13000	407	19,000
18,000	401						14700	14400	14200	14000	13800	13600	13400	13200	13000	401	18,000
17,000	396					15000	14800	14500	14300	14000	13800	13600	13400	13300	13100	396	17,000
16,000	389				15300	15000	14800	14500	14300	14000	13800	13600	13400	13300	13100	389	16,000
15,000	384			15700	15400	15100	14800	14600	14300	14100	13900	13700	13500	13300	13200	384	15,000

3 ENGINE CRUISE AT 0.84 MIND/300 KTS. I.A.S.

TABLE 23J

J.S.A.+28°C TO +32°C

PRESS. HEIGHT FEET	TAS KTS	INSTANTANEOUS WEIGHT lb/1000 AND FUEL FLOW lb/HR.													TAS KTS	PRESS. HEIGHT FEET
		310	300	290	280	270	260	250	240	230	220	210	200	190	180	
33,000	504															504	33,000
32,000	506															506	32,000
31,000	508															508	31,000
30,000	510															510	30,000
29,000	478															478	29,000
28,000	471															471	28,000
27,000	464															464	27,000
26,000	457															457	26,000
25,000	450															450	25,000
24,000	443															443	24,000
23,000	436															436	23,000
22,000	430															430	22,000
21,000	423													13100	13000	423	21,000
20,000	417											13600	13400	13100	13000	417	20,000
19,000	411											13700	13500	13300	13100	411	19,000
18,000	405										13900	13700	13500	13300	13200	405	18,000
17,000	399									14200	14000	13800	13500	13400	13200	399	17,000
16,000	392								14400	14200	14000	13800	13500	13400	13200	392	16,000
15,000	387							14700	14400	14200	14000	13800	13600	13400	13300	387	15,000

TABLE 24

RESTRICTED

DESCENT

PRESSURE HEIGHT FEET	MEAN T.A.S. KTS	FUEL USED LB	TIME MINS.	DISTANCE - N.ML. 50 KT. HEAD	ZERO WIND	50 KT. TAIL
43000	368	1300	22	117	135	153
42000	366	1300	22	114	131	149
41000	364	1300	21	111	129	147
40000	362	1300	21	109	126	143
39000	360	1300	20	106	123	140
38000	358	1300	20	103	120	137
37000	356	1300	20	101	117	133
36000	355	1200	19	98	114	130
35000	353	1200	19	95	111	127
34000	351	1200	18	92	107	123
33000	349	1200	18	89	104	119
32000	347	1200	17	86	101	116
31000	346	1100	17	84	98	112
30000	344	1100	17	81	95	109
29000	343	1100	16	79	92	105
28000	342	1100	16	76	89	102
27000	340	1000	15	73	85	98
26000	339	1000	15	70	82	94
25000	338	1000	14	67	79	91
24000	337	900	13	65	76	87
23000	336	900	13	62	73	84
22000	335	900	12	59	69	80
21000	333	800	12	56	66	76
20000	332	800	11	54	63	72
19000	330	800	11	51	60	69
18000	327	700	10	48	57	66
17000	325	700	10	45	53	62
16000	322	700	9	42	50	58
15000	320	600	8	40	47	54
14000	318	600	8	37	43	50
13000	316	600	7	34	40	46
12000	314	500	7	31	37	43
11000	312	500	6	28	33	39
10000	309	400	6	25	30	35
9000	307	400	5	23	27	31
8000	305	400	4	19	23	27
7000	303	300	4	17	20	23
6000	300	300	3	14	17	20
5000	298	200	3	11	13	16
4000	296	200	2	8	10	12
3000	294	100	1	5	7	8
2000	292	100	1	2	3	4
1000	290	0	0	0	0	0

NOTE

1. To find the mean T.A.S. between two altitudes, add the mean T.A.S. for the altitudes and subtract 290.

2. DESCENT AT VMO
   Reduce normal descent time by one half.
   Reduce normal descent fuel by one half.
   Increase mean T.A.S. by 40 Knots.

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TABLE 25

3 ENGINE HOLDING

230 KTS. I.A.S. BELOW 20,000 FT. 250 KTS. I.A.S. ABOVE

MEAN WEIGHT 230,000 LB

ALTITUDE ft.	FUEL FLOW LB/HR. J.S.A. -10°C	J.S.A.	J.S.A. +10°C	J.S.A. +20°C	J.S.A. +30°C	ALTITUDE ft.
30,000	10,500	10,700	11,000	11,200	11,400	30,000
28,000	10,600	10,800	11,100	11,300	11,500	28,000
26,000	10,700	10,900	11,200	11,400	11,600	26,000
24,000	10,800	11,000	11,200	11,500	11,700	24,000
22,000	10,800	11,100	11,300	11,500	11,700	22,000
20,000	10,400	10,600	10,900	11,000	11,200	20,000
18,000	10,500	10,700	10,900	11,100	11,300	18,000
16,000	10,600	10,800	11,000	11,200	11,400	16,000
14,000	10,700	10,900	11,100	11,300	11,500	14,000
12,000	10,800	11,000	11,200	11,400	11,600	12,000
10,000	10,900	11,100	11,300	11,500	11,700	10,000
8,000	11,000	11,300	11,500	11,700	11,900	8,000
6,000	11,300	11,500	11,700	11,900	12,100	6,000
4,000	11,400	11,700	11,800	12,000	12,200	4,000
2,000	11,600	11,800	12,000	12,200	12,400	2,000
S.L.	11,800	12,000	12,200	12,400	12,600	S.L.

LANDING DISTANCE REQUIRED

The landing distance required for destination and alternate aerodromes is shown in Fig. 5.4 for varying aerodrome altitudes, weight, wind component and runway gradient.

The conditions upon which the distance opposite is based are given below:

Associated Conditions:

Engines: All engines operating with one or two reversers operative. Reverse thrust (maximum continuous power) applied shortly after touchdown. At 70 kt. reverse thrust reduced smoothly to reverse idle.

Flaps: Land

Slats: Out

Speed Brakes: Fully extended 3 seconds after touchdown.

Landing Gear: Extended

Wheel Brakes: Anti-skid operative. Brakes fully applied when aircraft firmly on the ground.

Runway: Hard wet runway

Maximum Threshold Speed: Target threshold speed + 5 kts

NOTES:

(a) If one reverse thrust is unserviceable at departure, to allow for a possible engine failure en route assume that reverse thrust is not available. For Landing, When calculating the regulated landing weight use 90% of the landing distance available.

(b) The landing distance available may be shorter than the paved runway length, due to sterile sections or obstructions in the approach path.

NOTE: FUEL FLOW IS INCREASED (OR DECREASED) BY 1½% PER 10,000 lb. INCREASE (OR DECREASE) IN MEAN WEIGHT FROM 230,000 lb.

INFORMATION TO BE SUPPLIED LATER

3 ENGINE DIVERSION

TABLE 26A

HEADWIND - KNOTS

SECT. DIST. NAUT. MILES	-100 FUEL lb.	-100 TIME mins	-100 CLIMB HT. ft/1000	-90 FUEL lb.	-90 TIME mins	-90 CLIMB HT. ft/1000	-80 FUEL lb.	-80 TIME mins	-80 CLIMB HT. ft/1000	-70 FUEL lb.	-70 TIME mins	-70 CLIMB HT. ft/1000	-60 FUEL lb.	-60 TIME mins	-60 CLIMB HT. ft/1000
20	1300	6	6	1300	5	5	1300	5	5	1200	5	5	1200	5	5
40	2600	11	10	2500	11	10	2400	10	9	2300	10	9	2200	9	8
60	3800	16	14	3700	16	14	3500	15	14	3400	15	14	3300	15	14
80	4900	21	19	4800	20	18	4600	19	17	4400	19	17	4300	18	16
100	5900	25	21	5700	24	21	5500	24	21	5400	23	20	5200	22	19
120	6[illegible]00	29	24	6600	28	23	6400	28	23	6200	27	23	6000	26	22
140	7600	33	26	7400	32	26	7200	31	25	7000	30	25	6800	29	24
160	8400	37	28	8100	36	28	7900	35	27	7700	34	27	7500	33	26
180	9100	40	30	8900	39	29	8600	38	29	8400	37	28	8200	36	28
200	9900	44	31	9600	43	31	9400	42	30	9100	40	30	8900	39	29
220	10600	47	32	10400	46	32	10100	45	32	9800	44	31	9600	43	31
240	11400	50	33	11100	49	33	10800	48	33	10500	47	32	10300	45	32
260	12100	54	35	11800	52	34	11500	51	34	11200	50	33	10900	48	33
280	12800	57	35	12500	55	35	12100	54	35	11800	52	34	11600	51	34
300	13500	60	36	13100	58	36	12800	57	35	12500	55	35	12200	54	35
320	14200	63	37	13800	61	37	13500	60	36	13200	58	36	12900	57	35
340	14800	66	38	14500	65	38	14100	63	37	13800	62	37	13500	60	36
360	15500	70		15100	68		14800	66	38	14400	64	37	14100	63	37
380	16100	73		15800	71		15400	64		15000	67	38	14700	66	38
400	16700	76		16300	74		16000	72		15600	70		15300	69	
420	17300	79		16900	77		16600	75		16200	73		15900	72	
440	17900	83		17500	80		17100	78		16800	76		16400	75	
460	18400	86		18000	84		17700	81		17400	79		17000	77	
480	19000	89		18600	87		18200	84		17900	82		17500	80	
500	19500	92		19100	90		18700	87		18400	85		18000	83	

SECT. DIST. NAUT. MILES	-50 FUEL lb.	-50 TIME mins	-50 CLIMB HT. ft/1000	-40 FUEL lb.	-40 TIME mins	-40 CLIMB HT. ft/1000	-30 FUEL lb.	-30 TIME mins	-30 CLIMB HT. ft/1000	-20 FUEL lb.	-20 TIME mins	-20 CLIMB HT. ft/1000	-10 FUEL lb.	-10 TIME mins	-10 CLIMB HT. ft/1000	0 FUEL lb.	0 TIME mins	0 CLIMB HT. ft/1000
20	1200	5	5	1100	4	4	1100	4	4	1000	4	4	1000	4	4	900	4	4
40	2100	9	8	2100	9	8	2000	8	8	2000	8	8	1900	8	8	1800	8	8
60	3200	14	13	3100	13	12	3000	13	12	2900	12	11	2800	12	11	2700	12	11
80	4100	18	16	4000	17	15	3900	16	14	3800	16	14	3600	15	14	3500	15	14
100	5000	21	18	4900	21	18	4700	20	18	4600	19	17	4500	19	17	4300	18	16
120	5800	25	21	5600	24	21	5500	24	21	5300	23	20	5200	22	19	5100	21	18
140	6600	29	24	6400	28	23	6200	27	23	6100	26	22	5900	25	21	5700	25	21
160	7300	32	26	7100	31	25	6900	30	25	6700	29	24	6600	29	24	6400	28	23
180	8000	35	27	7800	34	27	7600	33	26	7400	33	25	7200	32	26	7100	31	25
200	8700	38	29	8500	37	28	8300	36	28	8100	35	27	7900	35	27	7700	34	27
220	9300	42	30	9100	40	30	8900	39	29	8700	38	29	8500	37	28	8300	37	28
240	10000	44	31	9800	43	31	9600	42	30	9400	41	30	9100	40	30	8900	40	30
260	10700	47	32	10400	46	32	10200	45	32	10000	44	31	9800	43	31	9500	42	30
280	11300	50	33	11000	49	33	10800	48	33	10600	47	32	10300	46	32	10100	45	32
300	11900	53	34	11600	52	34	11400	50	33	11200	49	33	10900	48	33	10700	47	32
320	12600	56	35	12300	54	35	12000	53	34	11800	52	34	11500	51	34	11300	50	33
340	13200	58	36	12900	57	35	12600	56	35	12300	55	35	12100	54	35	11800	52	34
360	13800	61	37	13500	60	36	13200	59	36	12900	57	35	12600	56	35	12300	55	35
380	14300	64	37	14000	63	37	13800	61	37	13500	60	36	13200	59	36	12900	58	36
400	14900	67	38	14600	66	38	14300	64	37	14000	63	37	13800	61	37	13500	60	36
420	15500	70		15200	68		14900	67	38	14600	65	38	14300	64	37	14000	63	37
440	16100	73		15800	71		15500	69		15200	68		14900	67	38	14500	65	38
460	16600	76		16300	74		16000	72		15700	71		15400	69		15100	67	
480	17200	78		16900	77		16500	75		16200	73		15900	72		15600	70	
500	17700	81		17400	79		17000	77		16700	76		16400	74		16100	73	

NOTE

1. Fuel includes 5 percent contingency allowance
2. 1000 feet start and finish altitude
3. Start weight 220,000 lb.

RESTRICTED

3 ENGINE DIVERSION

SECT. DIST.	TAILWIND - KNOTS																																	SECT. DIST.
	0			+10			+20			+30			+40			+50			+60			+70			+80			+90			+100			
NAUT. MILES	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	FUEL lb.	TIME mins	CLIMB HT. ft/1000	NAUT. MILES
20	900	4	4	900	4	4	900	4	4	900	4	4	900	4	4	900	4	4	800	4	4	800	4	4	800	4	4	800	4	4	800	3	3	20
40	1800	8	8	1800	8	8	1700	7	7	1700	7	7	1700	7	7	1600	7	7	1600	6	6	1600	6	6	1600	6	6	1500	6	6	1500	6	6	40
60	2700	12	11	2600	11	10	2500	11	10	2500	10	9	2400	10	9	2400	10	9	2300	10	9	2300	9	8	2200	9	8	2200	9	8	2200	9	8	60
80	3500	15	14	3400	14	13	3300	14	13	3200	14	13	3200	13	12	3100	13	12	3000	13	12	2900	12	11	2900	12	11	2800	12	11	2800	12	11	80
100	4300	18	16	4200	18	16	4100	17	15	4000	17	15	3900	16	14	3800	16	14	3700	15	14	3600	15	14	3500	15	14	3500	14	13	3400	14	13	100
120	5100	21	18	4900	21	18	4800	20	18	4700	20	18	4600	19	17	4400	19	17	4300	18	16	4200	18	16	4200	17	15	4100	17	15	4000	17	15	120
140	5700	25	21	5600	24	21	5400	23	20	5300	23	20	5200	22	19	5100	22	19	5000	21	18	4900	20	18	4800	20	18	4700	20	18	4600	19	17	140
160	6400	28	23	6200	27	23	6100	26	22	6000	26	22	5800	25	21	5700	24	21	5600	24	21	5400	23	20	5300	23	20	5200	22	19	5100	22	19	160
180	7100	31	25	6900	30	25	6800	29	24	6600	29	24	6400	28	23	6300	27	23	6200	27	23	6000	26	22	5900	25	21	5800	25	21	5700	24	21	180
200	7700	34	27	7500	33	26	7300	32	26	7200	31	25	7000	31	25	6900	30	25	6700	29	24	6600	29	24	6500	28	23	6300	27	23	6200	27	23	200
220	8300	37	28	8200	36	28	8000	35	27	7800	34	27	7600	33	26	7500	33	26	7300	32	26	7200	31	25	7000	31	25	6900	30	25	6800	29	24	220
240	8900	40	30	8800	39	29	8600	38	29	8400	37	28	8200	36	28	8100	35	27	7900	35	27	7700	34	27	7600	33	26	7400	32	26	7300	32	26	240
260	9500	42	30	9400	41	30	9200	40	30	9000	39	29	8800	39	29	8600	38	29	8400	37	28	8200	36	28	8100	36	28	8000	35	27	7800	34	27	260
280	10100	45	32	9900	44	31	9700	43	31	9500	42	30	9300	41	30	9200	40	30	9000	40	30	8800	39	29	8600	38	29	8500	37	28	8200	36	28	280
300	10700	47	32	10500	46	32	10300	45	32	10100	44	31	9900	44	31	9700	43	31	9500	42	30	9300	41	30	9100	40	30	9000	40	30	8800	39	29	300
320	11300	50	33	11100	49	33	10800	48	33	10600	47	32	10400	46	32	10200	45	32	10000	44	31	9800	43	31	9600	43	31	9500	42	30	9300	41	30	320
340	11800	52	34	11600	51	34	11400	50	33	11200	49	33	10900	48	33	10700	47	32	10500	46	32	10300	46	32	10100	45	32	9900	44	31	9800	43	31	340
360	12300	55	35	12100	54	35	11900	53	34	11700	52	34	11500	51	34	11200	50	33	11000	49	33	10800	48	33	10600	47	32	10400	46	32	10300	45	32	360
380	12900	58	36	12700	56	35	12400	55	35	12200	54	35	12000	53	34	11700	53	34	11500	51	34	11300	50	33	11100	49	33	10900	48	33	10700	47	32	380
400	13500	60	36	13200	59	36	13000	58	36	12700	56	35	12500	55	35	12200	54	35	12000	53	34	11800	52	34	11600	51	34	11400	50	33	11200	50	33	400
420	14000	63	37	13700	61	37	13500	60	36	13200	59	36	13000	58	36	12700	57	35	12500	56	35	12300	54	35	12000	53	34	11900	53	34	11700	52	34	420
440	14500	65	38	14300	64	37	14000	62	37	13700	61	37	13500	60	36	13300	59	36	13000	58	36	12800	57	35	12500	56	35	12300	55	35	12200	54	35	440
460	15100	67		14800	66	38	14500	65	38	14200	64	37	14000	62	37	13700	61	37	13500	60	36	13200	59	36	12000	58	36	12800	57	35	12600	56	35	460
480	15600	70		15300	69		15000	67		14800	66	38	14500	65	38	14200	63	37	14000	62	37	13700	61	37	13500	60	36	13300	59	36	13100	58	36	480
500	16100	73		15800	71		15500	70		15200	68		15000	67		14700	60	38	14500	65	38	14200	63	37	14000	62	37	13700	61	37	13500	60	36	500

NOTE

1. Fuel includes 5% contingency allowance.
2. 1000 feet start and finish altitude.
3. Start weight 220,000 lb.

3 ENGINE CRUISE CONTROL AT 0.84 M_{IND}/300 KTS. I.A.S.

TABLE 27A

Press. Ht. Feet I.A.S. Knots	Temp. Devi-ation J.S.A.	Ind. Air Temp. °C	T.A.S Kts.	WEIGHT - 1000 LB. 310	300	290	280	270	260	250	240	230	220	210	200	190	180	T.A.S. Kts.	Ind. Air Temp. °C	Temp. Devi-ation J.S.A.	Press. Ht. Feet I.A.S. Knots
				% R.P.M. AND FUEL FLOW LB/MIN/ENGINE																	
43000	+10	-39	462													91.3 55.0	90.2 51.7	462	-39	+10	43000
234	0	-50	451												90.3 57.3	89.2 53.8	88.1 50.6	451	-50	0	234
	-10	-61	440										91.4 68.3	89.7 61.1	88.1 56.1	87.1 62.2	86.0 49.4	440	-61	-10	
42000	+10	-37	465													90.7 55.0	89.9 52.2	465	-37	+10	42000
240	0	-48	454											90.7 60.8	89.6 56.9	88.6 53.8	87.8 51.3	454	-48	0	240
	-10	-59	442										90.1 64.4	88.5 59.4	87.4 55.6	86.5 52.2	85.7 50.0	442	-59	-10	
41000	+10	-35	467												91.3 58.3	90.4 55.6	89.6 53.3	467	-35	+10	41000
246	0	-46	456										91.2 63.8	90.2 60.2	89.2 57.1	88.3 54.2	87.5 52.1	456	-46	0	246
	-10	-57	445									90.3 67.2	89.0 62.2	88.0 58.9	87.1 55.6	86.2 52.8	85.4 51.1	445	-57	-10	
40000	+10	-33	469												90.8 58.9	90.0 56.1	89.5 54.4	469	-33	+10	40000
252	0	-44	458										90.5 63.1	89.6 60.0	88.8 57.6	88.0 55.1	87.5 53.2	458	-44	0	252
	-10	-55	447								90.8 70.6	89.5 65.6	88.3 61.7	87.4 58.3	86.7 56.1	85.9 53.9	85.4 52.2	447	-55	-10	
39000	+10	-31	471											91.3 62.2	90.5 59.4	89.9 57.2	89.5 55.6	471	-31	+10	39000
258	0	-42	460									90.9 66.4	90.1 63.3	89.2 60.7	88.5 58.3	87.9 56.2	87.5 54.4	460	-42	0	258
	-10	-53	449							90.9 73.3	89.8 68.3	88.7 65.0	87.9 61.7	87.1 59.4	86.4 56.7	85.8 55.0	85.4 53.3	449	-53	-10	
38000	+10	-28	473											91.1 62.8	90.4 60.7	89.9 58.8	89.6 57.1	473	-28	+10	38000
263	0	-39	462								91.4 69.2	90.5 66.1	89.6 63.5	89.0 61.3	88.3 59.3	87.8 57.5	87.5 55.8	462	-39	0	263
	-10	-50	451						91.3 75.5	89.9 71.5	89.4 67.6	88.3 64.6	87.4 62.0	86.8 59.9	86.2 57.9	85.7 56.1	85.4 54.5	451	-50	-10	
37000	+10	-26	475										91.5 66.1	90.8 64.0	90.4 62.1	90.0 60.4	89.6 58.9	475	-26	+10	37000
270	0	-37	465							91.5 72.2	90.8 69.5	89.9 66.9	89.4 64.7	88.8 62.7	88.3 60.8	87.9 59.2	87.6 57.6	465	-37	0	270
	-10	-48	454					91.4 78.3	90.3 74.5	89.7 70.8	88.6 67.8	87.8 65.3	87.2 63.2	86.6 61.2	86.2 59.4	85.8 57.8	85.5 56.3	454	-48	-10	
36000	+10	-24	478										91.2 67.6	90.8 65.7	90.4 64.0	90.1 62.4	89.7 60.9	478	-24	+10	36000
275	0	-35	467							91.0 72.7	90.3 70.2	89.7 68.0	89.1 66.0	88.7 64.2	88.4 62.5	88.0 60.9	87.7 59.5	467	-35	0	275
	-10	-46	456				90.9 81.6	90.6 77.4	89.9 73.9	88.8 71.0	88.1 68.5	87.6 66.4	87.0 64.5	86.6 62.6	86.3 61.0	85.9 59.5	85.6 58.1	456	-46	-10	
35000	+10	-22	480										91.2 69.1	90.8 67.4	90.5 65.8	90.1 64.3	89.8 63.0	480	-22	+10	35000
281	0	-33	469						91.3 76.0	90.6 73.6	90.1 71.4	89.5 69.4	89.1 67.5	88.8 65.8	88.5 64.3	88.1 62.9	87.7 61.5	469	-33	0	281
	-10	-44	458			91.3 84.3	90.9 80.3	90.1 77.0	89.1 74.2	88.5 71.9	87.9 69.7	87.4 67.8	87.0 66.0	86.7 64.3	86.4 62.8	86.0 61.4	85.7 60.1	458	-44	-10	
34000	+10	-19	482										91.2 70.9	90.9 69.3	90.6 67.9	90.2 66.5	89.9 65.3	482	-19	+10	34000
288	0	-30	471					91.5 79.3	90.9 77.0	90.4 74.9	89.9 72.8	89.5 71.0	89.2 69.3	88.9 67.8	88.5 66.3	88.2 65.0	87.9 63.8	471	-30	0	288
	-10	-41	460			91.1 83.3	90.1 80.2	89.3 77.5	88.8 75.2	88.3 73.1	87.8 71.2	87.4 69.4	87.1 67.7	86.8 66.2	86.5 64.8	86.1 63.5	85.8 62.3	460	-41	-10	

3 ENGINE CRUISE CONTROL AT 0.84 MIND/300 KTS. I.A.S.

TABLE 27B

Press. Ht. Feet I.A.S. Knots	Temp. Devi-ation J.S.A.	Ind. Air Temp. °C	T.A.S Kts.	WEIGHT - 1000 LB. 310	300	290	280	270	260	250	240	230	220	210	200	190	180	T.A.S. Kts.	Ind. Air Temp. °C	Temp. Devi-ation J.S.A	Press. Ht. Feet I.A.S. Knots
				% R.P.M. AND FUEL FLOW LB/MIN/ENGINE																	
33000	+10	-17	484										91.3 72.9	91.0 71.4	90.7 70.1	90.3 68.8	90.2 67.6	484	-17	+10	33000
295	0	-28	473					91.2 80.5	90.7 78.3	90.3 76.3	89.9 74.5	89.6 72.8	89.3 71.3	89.0 69.8	88.7 68.5	88.3 67.2	88.2 66.1	473	-28	0	295
	-10	-39	462		91.3 86.3	90.3 83.4	89.6 80.8	89.1 78.6	88.6 76.5	88.2 74.6	87.8 72.8	87.5 71.1	87.2 69.6	86.9 68.2	86.6 66.9	86.3 65.7	86.1 64.5	462	-39	-10	
32000	+10	-15	486										91.4 75.1	91.1 73.8	90.8 72.5	90.6 71.3	90.4 70.2	486	-15	+10	32000
302	0	-26	475					91.0 81.9	90.6 80.0	90.2 78.1	90.0 76.5	89.7 74.9	89.4 73.4	89.1 72.1	88.8 70.8	88.6 69.7	88.5 68.6	475	-26	0	302
	-10	-37	465	91.4 89.7	90.5 86.9	89.9 84.4	89.4 82.3	88.9 80.2	88.5 78.3	88.2 76.5	87.9 74.8	87.6 73.3	87.3 71.9	87.0 70.6	86.7 69.3	86.5 68.2	86.4 67.2	465	-37	-10	
31000	+10	-13	488										91.5 77.6	91.2 76.3	91.0 75.1	90.9 74.0	90.7 73.1	488	-13	+10	31000
309	0	-24	478				91.3 85.8	90.9 83.8	90.6 82.0	90.3 80.4	90.1 78.8	89.8 77.4	89.5 76.0	89.2 74.7	89.0 73.6	88.9 72.5	88.7 71.6	478	-24	0	309
	-10	-35	467	90.6 90.3	90.2 88.0	89.7 85.8	89.2 83.8	88.8 81.0	88.6 80.2	88.3 78.5	88.0 77.0	87.7 75.6	87.4 74.3	87.2 73.0	87.0 71.9	86.9 70.8	86.7 70.0	467	-35	-10	
30000	+10	-11	490											91.4 79.1	91.3 78.0	91.1 77.1	91.0 76.3	490	-11	+10	30000
315	0	-22	480				91.2 87.7	91.0 85.9	90.7 84.2	90.4 82.7	90.1 81.3	89.9 79.9	89.6 78.6	89.4 77.5	89.3 76.4	89.2 75.5	89.0 74.8	480	-22	0	315
	-10	-33	469	90.4 91.7	89.9 89.5	89.5 87.5	89.2 85.7	88.9 84.0	88.7 82.3	88.4 80.8	88.1 79.4	87.8 78.1	87.6 76.8	87.4 75.7	87.3 74.6	87.1 73.8	87.0 73.0	469	-33	-10	
29000	+20	-1	469														91.5 70.0	469	-1	+20	29000
300	+10	-12	460							91.4 77.8	91.1 76.1	90.9 75.0	90.6 73.3	90.4 72.2	90.1 71.1	89.8 69.4	89.6 68.3	460	-12	+10	300
	0	-22	450	91.3 88.9	90.9 86.7	90.6 83.9	90.3 81.7	90.0 80.0	89.7 77.8	89.5 76.1	89.2 74.4	89.0 73.3	88.7 71.7	88.5 70.6	88.2 69.4	88.0 68.3	87.8 67.2	450	-22	0	
	-10	-33	440	89.3 87.2	88.9 85.0	88.6 82.2	88.3 80.0	88.0 78.3	87.7 76.1	87.5 74.4	87.2 72.8	87.1 71.7	86.8 70.0	86.6 68.9	86.3 68.3	86.1 67.2	85.9 66.1	440	-33	-10	
28000	+20	+1	462													91.5 71.1	91.3 70.0	462	+1	+20	28000
300	+10	-10	453						91.4 79.4	91.1 77.8	90.9 76.1	90.6 75.0	90.4 73.3	90.1 72.2	89.8 71.1	89.6 69.4	89.4 68.3	453	-10	+10	300
	0	-21	444	91.1 88.3	90.7 86.1	90.4 83.9	90.1 81.7	89.8 80.0	89.5 77.8	89.2 76.1	89.0 74.4	88.7 73.3	88.5 71.7	88.2 70.6	88.0 69.4	87.8 68.3	87.6 67.2	444	-21	0	
	-10	-32	434	89.1 86.7	88.7 84.4	88.4 82.2	88.1 80.0	87.9 78.3	87.6 76.1	87.3 74.4	87.1 72.8	86.8 71.7	86.6 70.0	86.3 68.9	86.1 68.3	85.9 67.2	85.7 66.1	434	-32	-10	
27000	+20	+2	455												91.4 72.2	91.2 71.1	91.0 70.0	455	+2	+20	27000
300	+10	-9	446					91.5 81.7	91.2 79.4	90.9 77.8	90.7 76.1	90.4 75.0	90.2 73.3	89.8 72.2	89.6 71.1	89.4 69.4	89.2 68.3	446	-9	+10	300
	0	-20	437	90.8 87.8	90.5 85.6	90.1 83.3	89.8 81.1	89.6 80.0	89.3 77.8	89.0 76.1	88.8 74.4	88.5 73.3	88.3 71.7	88.0 70.6	87.8 69.4	87.6 68.3	87.4 67.2	437	-20	0	
	-10	-31	427	88.8 86.1	88.6 83.9	88.2 81.7	87.9 79.4	87.7 78.3	87.4 76.1	87.1 74.4	86.9 72.8	86.6 71.7	86.4 70.0	86.1 68.9	85.9 68.3	85.7 67.2	85.5 66.1	427	-31	-10	
26000	+20	+3	448											91.4 73.3	91.2 72.2	90.9 71.1	90.7 70.0	448	+3	+20	26000
300	+10	-7	439				91.5 82.8	91.2 81.1	90.9 79.4	90.7 77.8	90.4 76.1	90.2 75.0	89.8 73.3	89.6 72.2	89.4 71.1	89.1 69.4	88.9 68.3	439	-7	+10	300
	0	-18	430	90.6 87.2	90.2 85.0	89.9 82.8	89.6 81.1	89.3 79.4	89.0 77.8	88.8 76.1	88.5 74.4	88.3 73.3	88.0 71.7	87.8 70.6	87.6 69.4	87.3 68.3	87.1 67.2	430	-18	0	
	-10	-29	421	88.7 85.6	88.3 83.3	88.0 81.1	87.7 79.4	87.4 77.8	87.1 76.1	86.9 74.4	86.6 72.8	86.4 71.7	86.1 70.0	85.9 68.9	85.7 68.3	85.4 67.2	85.2 66.1	421	-29	-10	
25000	+20	+5	441										91.4 75.0	91.2 73.3	91.0 72.2	90.7 71.1	90.5 70.6	441	+5	+20	25000
300	+10	-6	432				91.3 82.8	91.0 81.1	90.7 79.4	90.4 77.8	90.2 76.1	89.8 75.0	89.6 73.9	89.4 72.2	89.2 71.1	88.9 69.4	88.7 68.9	432	-6	+10	300
	0	-17	424	90.3 86.7	90.0 85.0	89.7 82.8	89.4 81.1	89.1 79.4	88.8 77.8	88.5 76.1	88.3 74.4	88.0 73.3	87.8 72.2	87.6 70.6	87.4 69.4	87.1 68.3	86.9 67.8	424	-17	0	
	-10	-28	415	88.4 85.0	88.1 83.3	87.8 81.1	87.5 79.4	87.2 77.8	86.9 76.1	86.6 74.4	86.4 72.8	86.1 71.7	85.9 70.6	85.8 68.9	85.6 68.3	85.3 67.2	85.1 66.7	415	-28	-10	

3 ENGINE CRUISE CONTROL AT 0.84 M_{IND}/300 KTS. I.A.S.

TABLE 27C

Press. Ht. Feet I.A.S. Knots	Temp. Deviation J.S.A.	Ind. Air Temp. °C	T.A.S Kts.	WEIGHT - 1000 LB. 310	300	290	280	270	260	250	240	230	220	210	00	190	180	T.A.S Kts.	Ind. Air Temp. °C	Temp. Deviation J.S.A.	Press. Ht. Feet I.A.S. Knots
				% R.P.M. AND FUEL FLOW/LB/MIN/ENGINE																	
24000	+20	+6	435									91.4 76.1	91.1 75.0	90.9 73.3	90.7 72.2	90.4 71.1	90.2 70.6	435	+6	+20	24000
300	+10	-5	426			91.3 84.4	91.0 82.8	90.8 81.1	90.5 79.4	90.2 77.8	90.0 76.1	89.7 75.0	89.4 73.9	89.2 72.2	89.0 71.1	88.7 69.4	88.5 68.9	426	-5	+10	300
	0	-15	418	90.1 86.7	89.7 84.4	89.4 82.8	89.1 81.1	88.9 79.4	88.6 77.8	88.3 76.1	88.1 74.4	87.9 73.3	87.6 72.2	87.4 70.6	87.2 69.4	86.9 68.3	86.7 67.8	418	-15	0	
	-10	-26	409	88.2 85.0	87.8 82.8	87.5 81.1	87.2 79.4	87.0 77.8	86.7 76.1	86.4 74.4	86.2 72.8	86.1 71.7	85.8 70.6	85.6 68.9	85.4 68.3	85.1 67.2	84.9 66.7	409	-26	-10	
23000	+20	+8	428								91.3 77.2	91.1 76.1	90.9 75.0	90.7 73.3	90.4 72.2	90.2 71.1	90.0 70.6	428	+8	+20	23000
300	+10	-3	420		91.3 86.1	91.0 83.9	90.7 82.8	90.4 81.1	90.1 79.4	89.9 77.8	89.6 76.1	89.4 75.0	89.1 73.9	88.9 72.2	88.6 71.1	88.4 69.4	88.2 68.9	420	-3	+10	300
	0	-14	412	89.8 86.1	89.5 84.4	89.2 82.2	88.9 81.1	88.6 79.4	88.3 77.8	88.1 76.1	87.8 74.4	87.6 73.3	87.4 72.2	87.2 70.6	86.9 69.4	86.7 68.3	86.5 67.8	412	-14	0	
	-10	-25	403	87.9 84.4	87.6 82.8	87.3 80.6	87.1 79.4	86.8 77.8	86.5 76.1	86.3 74.4	86.0 72.8	85.8 71.7	85.6 70.6	85.4 68.9	85.1 68.3	84.9 67.8	84.7 66.7	403	-25	-10	
22000	+20	+10	422							91.4 78.9	91.1 77.2	90.9 76.1	90.7 75.0	90.4 73.9	90.2 72.8	90.0 71.7	89.8 71.1	422	+10	+20	22000
300	+10	-2	414	91.4 87.8	91.1 86.1	90.7 83.9	90.5 82.8	90.2 81.1	89.9 79.4	89.7 77.8	89.4 76.1	89.1 75.0	88.9 73.9	88.6 72.8	88.4 71.6	88.2 70.0	88.0 69.4	414	-2	+10	300
	0	-12	406	89.6 86.1	89.3 84.4	88.9 82.2	88.7 81.1	88.4 79.4	88.1 77.8	87.9 76.1	87.6 74.4	87.4 73.3	87.2 72.2	86.9 71.1	86.7 70.0	86.5 68.9	86.3 68.3	406	-12	0	
	-10	-23	397	87.8 84.4	87.5 82.8	87.1 80.6	86.9 79.4	86.6 77.8	86.3 76.1	86.1 74.4	85.8 72.8	85.6 71.7	85.4 70.6	85.1 69.4	84.9 68.9	84.7 67.8	84.5 67.2	397	-23	-10	
21000	+30	+21	423													91.4 72.8	91.2 72.2	423	+21	+30	21000
300	+20	+10	415					91.5 82.2	91.3 81.1	91.0 78.9	90.8 77.2	90.6 76.7	90.3 75.6	90.1 73.9	89.9 72.8	89.7 71.7	89.5 71.1	415	+10	+20	300
	+10	0	408	91.1 87.8	90.8 86.1	90.5 83.9	90.2 82.8	89.9 80.6	89.7 79.4	89.4 77.8	89.1 76.1	88.9 75.6	88.6 74.4	88.4 72.8	88.2 71.6	88.0 70.0	87.8 69.4	408	0	+10	
	0	-11	400	89.3 86.1	89.0 84.4	88.7 82.2	88.4 81.1	88.1 78.9	87.9 77.8	87.6 76.1	87.4 74.4	87.2 73.9	86.9 72.8	86.7 71.1	86.5 70.0	86.3 68.5	86.1 68.3	400	-11	0	
	-10	-22	391	87.5 84.4	87.2 82.8	86.9 80.6	86.6 79.4	86.3 77.2	86.1 76.1	85.8 74.4	85.6 72.8	85.4 72.2	85.1 71.1	84.9 69.4	84.7 68.9	84.5 67.8	84.3 67.2	391	-22	-10	
20000	+30	+23	417											91.5 75.6	91.3 74.4	91.1 72.8	90.9 72.2	417	-23	+30	20000
300	+20	+12	409					91.3 82.2	91.0 81.1	90.8 78.9	90.6 77.8	90.4 76.7	90.1 75.6	89.9 73.9	89.7 72.8	89.5 71.7	89.3 71.1	409	+12	+20	300
	+10	+1	402	90.9 87.8	90.6 85.6	90.3 83.9	90.0 82.2	89.7 80.6	89.4 79.4	89.1 77.8	88.9 76.7	88.7 75.6	88.4 74.4	88.2 72.8	88.0 71.6	87.8 70.0	87.6 69.4	402	+1	+10	
	0	-9	394	89.1 86.1	88.8 83.9	88.5 82.2	88.2 80.6	87.9 78.9	87.6 77.8	87.4 76.1	87.2 75.0	87.0 73.9	86.7 72.8	86.5 71.1	86.3 70.0	86.1 68.9	85.9 68.3	394	-9	0	
	-10	-20	386	87.3 84.4	87.0 82.2	86.7 80.6	86.4 78.9	86.1 77.2	85.8 76.1	85.6 74.4	85.4 73.3	85.2 72.2	84.9 71.1	84.7 69.4	84.5 68.9	84.4 67.8	84.2 67.2	386	-20	-10	
19000	+30	+24	411											91.3 76.1	91.1 75.0	90.9 73.9	90.7 72.3	411	+24	+30	19000
300	+20	+13	403				91.4 83.9	91.1 82.2	90.9 80.6	90.6 79.4	90.4 77.8	90.2 76.7	89.9 75.6	89.7 74.4	89.5 73.3	89.3 72.2	89.0 71.7	403	+13	+20	300
18000	+30	+26	405										91.3 77.2	91.1 76.1	90.9 75.0	90.7 73.9	90.5 73.3	405	+26	+30	18000
300	+20	+15	397			91.3 85.6	91.0 83.9	90.8 82.2	90.5 81.1	90.3 79.4	90.1 78.3	89.9 76.7	89.6 75.6	89.4 74.4	89.2 73.3	89.0 72.8	88.7 71.7	397	+15	+20	
17000	+30	+27	398									91.4 78.9	91.2 77.8	91.0 76.7	90.8 75.0	90.6 74.4	90.4 73.3	398	+27	+30	17000
300	+20	+16	391		91.3 87.8	91.1 86.1	90.8 84.4	90.6 82.8	90.4 81.1	90.1 80.0	89.9 78.3	89.7 77.2	89.5 76.1	89.3 75.0	89.1 73.9	88.9 72.8	88.6 72.2	391	+16	+20	300
16000	+30	+29	392								91.3 80.0	91.1 78.9	90.9 77.8	90.7 76.7	90.5 75.0	90.3 74.4	90.1 73.3	392	+29	+30	16000
300	+20	+18	386		91.0 87.8	90.8 86.1	90.5 84.4	90.3 82.8	90.1 81.1	89.9 80.0	89.6 78.3	89.4 77.2	89.2 76.1	89.0 75.0	88.8 73.9	88.6 73.3	88.4 72.2	386	+18	+20	
15000	+30	+30	386							91.3 81.7	91.1 80.0	90.9 78.9	90.7 77.8	90.5 76.7	90.4 75.6	90.2 74.4	90.0 73.8	386	+30	+30	15000
300	+20	+20	380	91.4 89.4	90.7 87.8	90.5 86.1	90.3 84.4	90.0 82.8	89.8 81.7	89.6 80.0	89.4 78.9	89.2 77.8	89.0 76.7	88.8 75.6	88.7 74.4	88.5 73.3	88.2 72.2	380	+20	+20	300

3 ENGINE RE-FLIGHT PLANNING

A.P. 101.B-0201-16B

0.84 M_{IND}/300 KTS I.A.S. CRUISE + DESCENT TO 1000 FT.

TABLE 28

ALTITUDE FEET	INITIAL WEIGHT 1b/1000	T.A.S. KNOTS TEMPERATURE J.S.A. −10	0	+10	+20
38000	273 290 306	451	462	473	484
37000	262 277 291	454	465	475	486
36000	246 262 276 290 305	456	467	478	488
35000	233 247 260 273 287 301	458	469	480	490
34000	223 235 246 258 270 285 298 313	460	471	482	492
33000	206 219 230 242 254 267 280 293 307	462	473	484	494
32000	195 206 216 227 238 249 262 274 287 299 311	465	475	486	496
31000	192 202 212 223 234 245 257 268 279 290 300 310	467	478	488	498
30000	190 200 210 220 230 240 250 260 270 280 290 300 310	469	480	490	500
29000	185 195 205 215 225 236 246 256 265 275 285 295 305	440	450	460	469
28000	191 201 211 220 231 241 250 260 271 279 290 301 310	434	444	453	462
27000	186 196 206 216 226 236 245 255 265 274 284 295 304 313	427	437	446	455
26000	191 201 210 220 230 239 248 259 268 278 289 298 307	421	430	439	448
25000	195 205 215 225 235 244 253 262 272 282 291 300 310	415	424	432	441
24000	189 199 209 219 228 237 246 254 264 274 282 290 298	409	418	426	435
23000	190 202 212 220 229 238 247 256 266 274 283 290	403	412	420	428
22000	194 204 212 221 230 238 247 256 265 273 280	397	406	414	422
21000	195 203 212 221 229 238 248 256 264 271	391	400	408	415
20000	194 202 211 218 227 236 244 252 259	386	394	402	409

STILL AIR DISTANCE - NAUT. MILES	FUEL REQUIRED 1b/1000
500	13.4 13.7 14.0 14.2 14.5 14.8 15.0 15.3 15.5 15.7 15.8 15.9 16.0 16.0 16.0 16.1 16.2 16.2
600	16.2 16.5 16.9 17.2 17.5 17.7 18.0 18.3 18.5 18.8 19.0 19.1 19.3 19.5 19.6 19.7 19.9 20.0
700	18.5 19.0 19.3 19.7 20.0 20.4 20.7 21.1 21.4 21.6 21.9 22.1 22.3 22.5 22.7 23.0 23.1 23.3
800	20.9 21.4 21.8 22.2 22.7 23.2 23.7 24.1 24.5 24.8 25.1 25.4 25.5 25.7 26.0 26.2 26.4 26.6
900	23.5 24.0 24.6 25.0 25.6 26.2 26.7 27.2 27.5 28.0 28.3 28.5 28.8 29.0 29.2 29.5 29.7 30.0
1000	26.3 26.9 27.3 27.8 28.3 28.8 29.3 29.8 30.3 30.7 31.1 31.5 31.6 32.0 32.4 32.6 32.9 33.2
1100	28.8 29.4 30.0 30.5 31.1 31.7 32.3 32.8 33.4 33.8 34.3 34.6 35.0 35.3 35.7 36.0 36.4 36.6
1200	31.2 31.9 32.5 33.1 33.8 34.5 35.1 35.7 36.3 36.8 37.4 37.7 38.1 38.5 39.0 39.4 39.7 40.1
1300	33.9 34.6 35.2 36.0 36.6 37.3 38.0 38.6 39.2 39.8 40.3 40.7 41.1 41.5 41.9 42.4 42.6 43.0
1400	36.4 37.1 37.9 38.6 39.3 40.0 40.7 41.5 42.0 42.6 43.3 43.8 44.2 44.7 45.2 45.7 46.3 46.7
1500	39.1 39.9 40.6 41.3 42.0 42.7 43.4 44.1 44.8 45.4 46.0 46.6 47.1 47.7 48.3 48.8 49.3 49.7
1600	41.5 42.3 43.0 43.9 44.9 45.5 46.3 47.0 47.8 48.5 49.1 49.7 50.3 50.8 51.4 52.0 52.5 53.0
1700	44.0 45.0 45.7 46.6 47.5 48.3 49.1 50.0 50.6 51.5 52.1 52.7 53.3 54.0 54.5 55.1 55.7 56.4
1800	46.5 47.4 48.3 49.3 50.1 51.0 51.8 52.7 53.5 54.4 55.1 55.8 56.5 57.1 57.7 58.3 58.9 59.5
1900	48.8 49.9 50.9 51.9 52.7 53.7 54.5 55.5 56.3 57.1 58.0 58.6 59.4 60.0 60.7 61.4 62.0 62.7
2000	51.1 52.3 53.3 54.2 55.2 56.2 57.1 58.0 58.9 59.8 60.6 61.5 62.3 63.0 63.7 64.5 65.2 65.9
2100	53.8 55.0 56.0 57.0 58.0 59.0 60.0 60.9 61.9 62.8 63.6 64.4 65.2 65.9 66.7 67.5 68.2 69.0
2200	56.1 57.4 58.5 59.5 60.6 61.1 62.5 63.6 64.5 65.5 66.4 67.3 68.0 68.9 69.7 70.5 71.3 72.1
2300	58.6 59.8 61.0 62.0 63.2 64.2 65.3 66.4 67.4 68.4 69.4 70.2 71.0 72.0 72.9 73.8 74.7 75.6
2400	61.0 62.3 63.5 64.6 65.8 66.9 68.0 69.1 70.0 71.2 72.1 73.0 74.0 74.9 65.8 76.6 77.5 78.5
2500	63.2 64.7 65.9 67.0 68.2 69.4 70.5 71.7 72.8 74.0 75.0 76.0 77.0 78.0 79.0 80.0 80.9 82.0
2600	65.5 67.2 68.5 69.7 70.9 72.1 73.4 74.5 75.7 76.7 77.8 78.7 79.8 80.7 81.7 82.6 83.6 84.6
2700	68.0 69.6 71.0 72.2 73.5 74.7 76.0 77.2 78.4 79.4 80.5 81.5 82.5 83.4 84.3 85.2 86.2 87.2
2800	70.5 72.0 73.4 74.8 76.1 77.4 78.6 79.9 81.0 82.2 83.4 84.4 85.5 86.5 87.5 88.5 89.6 90.6
2900	73.0 74.8 76.2 77.5 78.8 80.0 81.3 82.6 83.8 85.0 86.7 87.2 88.2 89.3 90.2 91.4 92.4 93.0
3000	76.0 77.5 79.0 80.3 81.6 83.0 84.2 85.5 86.7 87.9 89.1 90.2 91.3 92.2 93.2 94.3 95.3 96.5

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