TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
6000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	115	5440	113	4290	113	4050	113	3820	114	3590	118	125
-25	114	5630	113	4370	113	4130	113	3900	114	3670	118	125
-20	112	5810	113	4450	113	4210	113	3970	114	3740	118	125
-15	111	6090	113	4570	113	4320	114	4080	114	3850	118	125
-10	110	6510	114	4780	114	4530	114	4280	114	4040	119	125
-5	110	7200	115	5150	115	4880	115	4620	116	4360	119	125
0	109	8480	117	5800	117	5500	117	5210	118	4920	120	125
5	108	10000	119	6510	119	6170	119	5850	119	5530	121	125
10	108	11840	118	7260	121	6890	121	6530	121	6180	122	125

WEIGHT = 12200 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	115	5220	112	4180	112	3950	112	3720	112	3500	117	124
-25	114	5300	112	4260	112	4020	112	3790	112	3570	117	124
-20	113	5490	112	4330	112	4100	112	3860	112	3640	117	124
-15	112	5750	112	4450	112	4210	112	3970	113	3740	117	124
-10	111	6150	113	4640	113	4400	113	4150	113	3920	118	124
-5	110	6800	114	5000	114	4740	114	4480	114	4230	118	124
0	110	7990	116	5630	116	5340	116	5050	117	4770	119	124
5	109	9400	118	6310	118	5990	118	5670	118	5360	120	124
10	108	11100	119	7040	120	6680	120	6330	120	5980	121	124

WEIGHT = 12000 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	113	5070	110	4050	111	3830	111	3600	111	3390	116	123
-25	113	5150	110	4130	111	3900	111	3670	111	3460	116	123
-20	113	5230	110	4200	111	3970	111	3740	111	3520	116	123
-15	113	5370	111	4320	111	4080	111	3850	111	3620	116	123
-10	112	5750	111	4500	111	4260	112	4020	112	3790	116	123
-5	111	6360	112	4840	113	4580	113	4330	113	4080	117	123
0	111	7440	115	5440	115	5150	115	4870	115	4600	118	123
5	110	8750	117	6100	117	5780	117	5470	117	5170	119	123
10	109	10300	118	6790	118	6440	118	6100	119	5760	120	123

WEIGHT = 11500 LBS — VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	110	4720	107	3770	107	3550	108	3340	108	3140	113	121
-25	110	4800	107	3840	107	3620	108	3410	108	3200	113	121
-20	110	4880	107	3910	107	3690	108	3470	108	3260	113	121
-15	110	4990	107	4000	107	3780	108	3560	108	3350	113	120
-10	110	5180	108	4160	108	3930	108	3700	109	3490	113	120
-5	112	5500	109	4430	109	4190	109	3960	110	3730	114	120
0	113	6170	111	4980	111	4710	112	4450	112	4200	115	120
5	113	7200	113	5570	113	5270	113	4990	114	4700	116	120
10	112	8410	115	6200	115	5870	115	5550	115	5240	117	120

WEIGHT = 11000 LBS — VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4430	104	3530	105	3320	105	3120	105	2930	111	119
-25	107	4500	104	3590	105	3380	105	3180	105	2990	111	119
-20	107	4570	104	3650	104	3450	105	3240	105	3040	111	119
-15	107	4660	104	3730	104	3520	105	3310	105	3110	111	118
-10	107	4820	105	3860	105	3640	105	3430	105	3230	111	118
-5	108	5080	105	4080	106	3850	106	3620	106	3410	111	118
0	110	5620	108	4540	108	4290	108	4050	108	3810	112	118
5	113	6280	110	5080	110	4800	110	4530	110	4270	113	118
10	114	6970	111	5640	112	5330	112	5040	112	4750	114	118

WEIGHT = 10000 LBS — VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	3960	99	3140	100	2960	100	2780	101	2600	108	117
-25	102	4020	99	3200	100	3010	100	2830	100	2650	108	117
-20	102	4080	99	3260	100	3070	100	2880	100	2700	108	117
-15	102	4160	99	3320	100	3130	100	2940	100	2760	107	116
-10	102	4270	99	3410	100	3210	100	3020	100	2840	107	116
-5	102	4420	99	3520	100	3320	100	3120	100	2930	106	114
0	103	4720	100	3760	101	3540	101	3330	101	3120	106	113
5	105	5190	102	4170	103	3930	103	3700	103	3480	107	113
10	107	5750	104	4620	104	4360	105	4110	105	3860	108	113

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	3510	94	2780	95	2620	95	2450	95	2290	104	115
-25	96	3570	94	2830	95	2660	95	2500	95	2340	104	115
-20	96	3630	94	2890	95	2710	95	2550	95	2390	104	115
-15	96	3690	94	2940	95	2770	95	2600	95	2440	104	114
-10	96	3780	94	3010	95	2840	95	2660	95	2500	103	113
-5	96	3900	94	3100	95	2920	95	2740	95	2570	102	112
0	97	4080	94	3240	95	3040	95	2860	95	2680	101	109
5	97	4310	95	3410	95	3210	95	3010	96	2820	100	107
10	99	4670	96	3720	97	3500	97	3280	97	3080	101	107

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3300	92	2700	92	2520	92	2340	93	2170	102	114
-25	93	3360	92	2750	92	2560	92	2380	93	2210	102	114
-20	93	3410	92	2790	92	2610	92	2430	93	2250	102	114
-15	93	3470	91	2830	92	2640	92	2460	93	2290	102	113
-10	93	3550	91	2850	92	2660	92	2490	93	2330	101	112
-5	94	3650	92	2900	92	2730	92	2560	93	2400	101	111
0	94	3810	92	3020	92	2840	92	2660	93	2490	99	108
5	94	3990	92	3140	92	2950	92	2770	93	2590	98	106
10	95	4210	92	3320	93	3120	93	2920	93	2730	97	104

Figure 4-21 (Sheet 7)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
7000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	113	5820	113	4450	113	4210	113	3970	114	3740	118	125
-25	111	6040	113	4550	113	4300	113	4060	114	3830	118	125
-20	110	6270	113	4650	113	4400	114	4160	114	3920	118	125
-15	109	6640	114	4830	114	4570	114	4330	114	4080	119	125
-10	108	7080	114	5060	114	4790	115	4540	115	4290	119	125
-5	108	8130	116	5610	116	5320	116	5030	117	4760	120	125
0	107	9650	118	6330	118	6010	118	5690	119	5390	121	125
5	106	11430	117	7180	120	6740	120	6390	120	6050	122	125
7			117	7680	121	7050	121	6690	121	6330	122	125
8			117	7940	120	7210	121	6830	121	6470	122	125

WEIGHT = 12200 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	113	5490	112	4340	112	4100	112	3870	112	3640	117	124
-25	112	5710	112	4430	112	4190	112	3950	113	3730	117	124
-20	111	5930	112	4530	112	4280	112	4040	113	3810	117	124
-15	110	6280	112	4690	113	4440	113	4200	113	3960	118	124
-10	109	6700	113	4910	113	4650	113	4400	114	4160	118	124
-5	108	7680	115	5440	115	5160	115	4880	115	4610	119	124
0	108	9090	117	6140	117	5830	117	5520	117	5220	120	124
5	107	10750	118	6880	119	6530	119	6190	119	5860	121	124
8	107	11920	118	7350	120	6980	120	6620	120	6270	121	124
9			117	7570	120	7140	120	6770	120	6410	121	124

WEIGHT = 12000 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	113	5240	110	4210	111	3970	111	3750	111	3520	116	123
-25	113	5340	110	4300	111	4060	111	3830	111	3610	116	123
-20	112	5540	110	4390	111	4150	111	3920	111	3690	116	123
-15	111	5880	111	4550	111	4300	111	4060	112	3830	116	123
-10	110	6270	112	4750	112	4500	112	4250	112	4010	117	123
-5	109	7180	113	5260	114	4980	114	4710	114	4450	118	123
0	109	8480	116	5930	116	5630	116	5330	116	5030	119	123
5	108	10000	117	6640	118	6300	118	5970	118	5650	120	123
9	107	11450	118	7250	119	6880	119	6520	119	6170	120	123
10	107	11850	118	7410	119	7040	119	6670	119	6310	120	123

WEIGHT = 11500 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	110	4880	107	3910	107	3680	108	3470	108	3260	113	121
-25	110	4970	107	3990	107	3760	108	3550	108	3340	113	120
-20	110	5060	107	4070	107	3840	108	3620	108	3410	113	120
-15	110	5220	108	4210	108	3970	108	3750	108	3530	113	120
-10	111	5420	108	4370	108	4130	109	3900	109	3680	114	120
-5	112	6000	110	4820	110	4560	110	4310	111	4060	115	120
0	111	7040	112	5430	112	5140	113	4860	113	4590	116	120
5	111	8240	114	6070	114	5750	114	5440	115	5140	117	120
10	110	9700	116	6760	116	6410	116	6070	116	5740	117	120

WEIGHT = 11000 LBS — VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4560	104	3650	105	3440	105	3240	105	3040	111	119
-25	107	4650	104	3720	104	3510	105	3310	105	3110	111	119
-20	107	4730	104	3800	104	3580	105	3370	105	3170	111	118
-15	107	4870	104	3910	105	3690	105	3480	105	3270	111	118
-10	107	5030	105	4040	105	3820	105	3600	106	3390	111	118
-5	109	5440	107	4400	107	4160	107	3920	107	3700	112	118
0	112	6100	109	4950	109	4680	109	4420	109	4170	113	118
5	113	6810	111	5520	111	5230	111	4940	111	4660	114	118
10	112	7750	112	6140	112	5820	113	5500	113	5190	114	118

WEIGHT = 10000 LBS — VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	4080	99	3250	100	3060	100	2880	100	2700	107	117
-25	102	4150	99	3320	100	3120	100	2940	100	2760	107	116
-20	102	4230	99	3380	100	3190	100	3000	100	2810	107	116
-15	102	4320	99	3460	100	3260	100	3070	100	2880	107	116
-10	102	4430	99	3550	100	3340	100	3150	100	2960	107	115
-5	102	4640	100	3720	100	3500	100	3300	101	3100	106	113
0	104	5060	101	4070	102	3840	102	3610	102	3400	106	113
5	106	5630	103	4530	104	4280	104	4030	104	3790	107	113
10	108	6230	105	5020	105	4750	105	4480	106	4210	108	113

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	3620	94	2880	95	2710	95	2540	95	2380	104	115
-25	96	3690	94	2940	95	2760	95	2590	95	2430	104	114
-20	96	3750	94	2990	95	2820	95	2650	95	2480	104	114
-15	96	3830	94	3060	95	2880	95	2710	95	2540	103	114
-10	96	3920	94	3130	95	2950	95	2770	95	2600	103	113
-5	97	4080	94	3250	95	3060	95	2870	95	2690	102	110
0	97	4280	94	3400	95	3200	95	3000	95	2810	100	108
5	98	4570	95	3650	96	3430	96	3230	96	3030	100	107
10	100	5050	97	4040	97	3800	98	3570	98	3350	101	107

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3400	92	2790	92	2600	92	2420	93	2250	102	113
-25	93	3460	91	2830	92	2640	92	2460	93	2280	102	113
-20	93	3520	91	2860	92	2680	92	2490	93	2320	102	113
-15	93	3590	91	2880	92	2700	92	2530	93	2370	102	112
-10	93	3670	91	2930	92	2760	92	2590	93	2430	101	112
-5	94	3810	92	3030	92	2850	92	2680	93	2510	100	109
0	94	3990	92	3160	92	2970	92	2790	93	2610	98	107
5	94	4180	92	3300	92	3100	92	2910	93	2720	97	104
10	96	4510	93	3580	93	3370	94	3160	94	2960	98	104

Figure 4-21 (Sheet 8)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
8000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	111	6230	113	4630	113	4380	113	4140	114	3900	118	125
-25	109	6460	113	4730	113	4480	114	4230	114	3990	118	125
-20	108	6730	113	4850	113	4600	114	4350	114	4110	118	125
-15	107	7240	114	5120	114	4850	114	4600	115	4340	119	125
-10	106	7900	115	5460	115	5180	115	4900	116	4640	119	125
-5	106	9210	117	6110	117	5800	117	5500	117	5200	120	125
0	105	10980	116	7050	119	6560	119	6220	119	5890	121	125
4			115	8140	119	7220	121	6850	121	6490	122	125
5			115	8410	119	7380	121	7010	121	6640	122	125

WEIGHT = 12200 LBS VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	111	5890	112	4510	112	4260	112	4030	113	3790	117	124
-25	110	6110	112	4600	112	4360	112	4120	113	3880	117	124
-20	109	6370	112	4720	112	4470	113	4230	113	3990	117	124
-15	108	6850	113	4970	113	4710	113	4460	114	4210	118	124
-10	107	7480	114	5300	114	5020	114	4760	114	4500	118	124
-5	107	8700	116	5930	116	5630	116	5330	116	5040	119	124
0	106	10350	117	6700	118	6360	118	6030	118	5710	120	124
5	105	9020	116	7780	119	7150	120	6790	120	6430	121	124
6			116	8060	119	7310	120	6940	120	6570	121	124

WEIGHT = 12000 LBS VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	112	5510	110	4370	111	4130	111	3900	111	3670	116	123
-25	111	5720	111	4460	111	4220	111	3990	111	3760	116	123
-20	110	5970	111	4580	111	4330	111	4090	111	3860	116	123
-15	109	6430	111	4810	112	4550	112	4310	112	4070	117	123
-10	108	7000	112	5120	113	4850	113	4590	113	4340	117	123
-5	108	8140	114	5730	115	5430	115	5150	115	4870	118	123
0	107	9650	117	6470	117	6140	117	5820	117	5500	119	123
5	106	11490	117	7260	118	6900	119	6540	119	6190	120	123
6	106	11900	117	7420	119	7050	119	6690	119	6330	120	123
10			116	8430	120	7710	120	7320	120	6930	121	123

WEIGHT = 11500 LBS VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	110	5040	107	4050	107	3830	108	3610	108	3390	113	120
-25	110	5140	107	4140	107	3910	108	3690	108	3470	113	120
-20	110	5250	107	4230	108	4000	108	3780	108	3560	113	120
-15	111	5480	108	4430	108	4190	109	3960	109	3730	114	120
-10	111	5890	109	4690	109	4440	109	4200	110	3960	114	120
-5	110	6810	111	5240	111	4970	111	4700	112	4440	115	120
0	109	8020	113	5910	113	5600	113	5300	114	5010	116	120
5	109	9480	115	6630	115	6290	115	5950	115	5630	117	120
10	108	11240	117	7390	117	7010	117	6650	117	6290	118	120

WEIGHT = 11000 LBS VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4710	104	3780	104	3570	105	3360	105	3160	111	119
-25	107	4800	104	3860	104	3640	105	3430	105	3230	111	118
-20	107	4900	104	3950	105	3730	105	3520	105	3310	111	118
-15	107	5090	105	4100	105	3870	105	3650	105	3440	111	118
-10	108	5340	105	4300	106	4060	106	3840	106	3610	111	118
-5	110	5890	108	4780	108	4530	108	4280	108	4030	112	118
0	112	6620	110	5380	110	5100	110	4820	110	4550	113	118
5	111	7670	111	6030	112	5710	112	5400	112	5100	114	118
10	110	8990	113	6710	113	6360	113	6020	113	5690	115	118

WEIGHT = 10000 LBS VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	4210	99	3370	100	3170	100	2990	100	2800	107	116
-25	102	4290	99	3430	100	3240	100	3050	100	2860	107	116
-20	102	4370	99	3500	100	3300	100	3110	100	2920	107	116
-15	102	4490	99	3600	100	3400	100	3200	100	3010	107	115
-10	102	4630	99	3710	100	3500	100	3300	100	3100	106	114
-5	103	4930	100	3950	100	3730	101	3510	101	3300	106	113
0	105	5480	102	4420	103	4170	103	3940	103	3700	107	113
5	107	6110	104	4930	104	4660	105	4400	105	4140	108	113
10	109	6770	106	5470	106	5180	106	4890	106	4610	109	113

WEIGHT = 9000 LBS VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	3740	94	2980	95	2810	95	2640	95	2470	104	114
-25	96	3800	94	3040	95	2860	95	2690	95	2520	104	114
-20	96	3870	94	3100	95	2920	95	2750	95	2580	104	114
-15	96	3970	94	3180	95	3000	95	2820	95	2640	103	113
-10	96	4090	94	3270	95	3080	95	2900	95	2720	102	112
-5	97	4270	94	3410	95	3210	95	3020	95	2830	101	109
0	97	4520	95	3600	95	3390	95	3180	96	2990	100	107
5	99	4960	96	3970	97	3740	97	3520	97	3300	101	107
10	101	5480	98	4390	98	4140	99	3900	99	3660	102	107

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3510	91	2880	92	2690	92	2500	93	2330	102	113
-25	93	3570	91	2920	92	2730	92	2540	92	2360	102	113
-20	93	3630	91	2950	92	2760	92	2570	93	2410	102	113
-15	93	3720	91	2970	92	2800	92	2630	93	2470	101	112
-10	93	3830	92	3060	92	2880	92	2700	93	2540	101	111
-5	94	3990	92	3170	92	2990	92	2810	93	2630	99	108
0	94	4180	92	3310	92	3120	92	2930	93	2740	98	105
5	95	4440	92	3540	93	3330	93	3120	93	2930	97	104
10	97	4890	94	3900	94	3670	94	3450	95	3230	98	104

Figure 4-21 (Sheet 9)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
9000 FEET

CONDITIONS: ANTI-ICE ON
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	108	6820	114	4900	114	4650	114	4400	114	4150	119	125
-25	107	7140	114	5060	114	4800	114	4540	114	4290	119	125
-20	106	7710	115	5350	115	5080	115	4810	115	4550	119	125
-15	106	8560	116	5790	116	5490	116	5210	116	4930	120	125
-10	105	9770	116	6360	118	6040	118	5730	118	5430	121	125
-5	104	11590	115	7540	118	6800	120	6460	120	6120	122	125
-2			114	8430	118	7390	121	6960	121	6600	122	125
0			114	9050	118	7960	121	7300	121	6920	122	125

WEIGHT = 12200 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	109	6450	112	4760	113	4510	113	4270	113	4030	118	124
-25	108	6760	113	4910	113	4660	113	4410	113	4160	118	124
-20	107	7290	113	5200	114	4930	114	4670	114	4410	118	124
-15	106	8110	115	5620	115	5330	115	5050	115	4780	119	124
-10	106	9230	116	6170	116	5860	117	5560	117	5260	120	124
-5	105	10930	116	6990	118	6590	118	6260	119	5930	121	124
0			115	8380	118	7450	120	7070	120	6700	121	124

WEIGHT = 12000 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	110	6050	111	4620	111	4370	112	4130	112	3890	116	123
-25	109	6340	111	4750	112	4500	112	4260	112	4020	117	123
-20	108	6840	112	5020	112	4760	113	4510	113	4260	117	123
-15	107	7590	113	5430	114	5150	114	4880	114	4610	118	123
-10	107	8630	115	5960	115	5660	115	5360	115	5070	118	123
-5	106	10200	117	6700	117	6360	117	6030	117	5710	119	123
0			116	7640	119	7180	119	6810	119	6450	120	123
3			115	8530	119	7700	120	7310	120	6930	121	123

WEIGHT = 11500 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	110	5290	108	4270	108	4030	108	3810	108	3590	113	120
-25	110	5430	108	4390	108	4150	108	3920	109	3690	114	120
-20	111	5760	109	4600	109	4360	109	4120	109	3890	114	120
-15	110	6380	110	4970	110	4710	110	4450	111	4210	115	120
-10	109	7240	111	5460	112	5170	112	4900	112	4630	115	120
-5	108	8490	113	6120	114	5810	114	5500	114	5200	116	120
0	108	10100	115	6890	115	6540	116	6200	116	5870	117	120
3	107	11240	116	7380	116	7010	117	6650	117	6290	118	120
5	107	12080	117	7710	117	7330	117	6950	117	6580	118	120
7			117	8080	118	7670	118	7280	118	6890	118	120

WEIGHT = 11000 LBS — VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4930	104	3960	105	3740	105	3530	105	3320	111	118
-25	107	5050	105	4070	105	3840	105	3620	105	3410	111	118
-20	108	5260	105	4240	105	4000	106	3780	106	3560	111	118
-15	109	5590	106	4540	107	4290	107	4060	107	3830	112	118
-10	111	6120	108	4980	108	4710	108	4450	109	4200	112	118
-5	111	6930	110	5570	110	5280	110	5000	110	4720	113	118
0	110	8170	112	6270	112	5940	112	5620	112	5310	114	118
5	109	9690	113	7000	114	6640	114	6290	114	5950	115	118
7	109	10410	114	7320	114	6950	114	6590	114	6230	115	118
10	109	11580	115	7800	115	7410	115	7020	115	6640	116	118

WEIGHT = 10000 LBS — VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	4380	99	3510	100	3310	100	3110	100	2930	107	116
-25	102	4470	99	3580	100	3380	100	3180	100	2990	107	115
-20	102	4600	99	3690	100	3480	100	3280	100	3080	106	114
-15	102	4770	100	3830	100	3620	100	3410	100	3200	106	113
-10	103	5090	101	4090	101	3870	101	3650	101	3430	106	113
-5	105	5660	103	4570	103	4320	103	4080	103	3840	107	113
0	107	6340	105	5120	105	4850	105	4580	105	4310	108	113
5	109	7050	106	5710	106	5400	107	5100	107	4810	109	113
10	110	7820	108	6340	108	6000	108	5670	108	5350	110	113

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	3880	94	3100	95	2920	95	2750	95	2580	103	114
-25	96	3950	94	3160	95	2980	95	2810	95	2630	103	113
-20	96	4060	94	3250	95	3060	95	2880	95	2710	103	112
-15	97	4200	94	3360	95	3160	95	2980	95	2790	102	111
-10	97	4370	94	3490	95	3280	95	3090	95	2900	101	109
-5	97	4630	95	3700	95	3490	95	3280	96	3080	100	107
0	99	5140	97	4120	97	3880	97	3660	97	3430	101	107
5	101	5700	99	4580	99	4320	99	4070	99	3820	102	107
10	103	6300	100	5060	100	4780	100	4510	101	4240	103	107

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3640	91	2920	92	2740	92	2570	93	2410	102	112
-25	93	3710	91	2960	92	2790	92	2620	93	2460	101	112
-20	93	3800	91	3040	92	2860	92	2690	93	2520	101	111
-15	94	3930	92	3130	92	2950	92	2770	93	2600	100	109
-10	94	4080	92	3250	92	3060	92	2870	93	2690	99	107
-5	94	4270	92	3390	92	3190	92	2990	93	2810	98	105
0	95	4590	93	3660	93	3450	93	3240	93	3030	98	104
5	97	5080	94	4060	95	3820	95	3590	95	3370	98	104
10	99	5610	96	4480	96	4230	96	3980	97	3730	99	104

Figure 4-21 (Sheet 10)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
10,000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 141 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	106	7550	114	5280	114	5000	115	4740	115	4480	119	125
-25	105	7960	115	5480	115	5200	115	4930	115	4660	119	125
-20	105	8970	115	5990	116	5680	116	5390	117	5100	120	125
-15	104	10250	114	6760	118	6260	118	5940	118	5630	121	125
-10			114	8100	117	7140	120	6750	120	6400	122	125
-8			113	8740	117	7700	120	7100	121	6740	122	125
-7			113	9080	117	8020	120	7290	121	6910	122	125

WEIGHT = 12200 LBS — VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	7160	113	5120	113	4860	113	4600	114	4350	118	124
-25	106	7550	113	5320	114	5050	114	4780	114	4520	118	124
-20	105	8500	115	5810	115	5520	115	5230	115	4950	119	124
-15	105	9690	115	6400	117	6080	117	5760	117	5460	120	124
-10	104	11620	115	7520	118	6890	119	6540	119	6200	121	124
-7			114	8430	118	7440	120	7060	120	6690	121	124
-6			114	8770	117	7690	120	7250	120	6870	121	124

WEIGHT = 12000 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	108	6710	112	4950	112	4690	112	4440	112	4200	117	123
-25	107	7080	112	5140	112	4880	112	4620	113	4360	117	123
-20	106	7970	114	5610	114	5330	114	5050	114	4780	118	123
-15	106	9070	115	6180	115	5870	115	5560	116	5260	119	123
-10	105	10850	115	7000	117	6650	117	6310	118	5980	120	123
-6			115	8010	118	7360	119	6990	119	6620	120	123
-5			115	8330	118	7560	119	7170	119	6800	120	123
-3			114	8970	118	7910	120	7510	120	7130	121	123

WEIGHT = 11500 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	111	5650	108	4550	108	4310	109	4070	109	3840	114	120
-25	110	5980	109	4710	109	4460	109	4220	109	3990	114	120
-20	109	6700	110	5140	110	4870	111	4610	111	4360	115	120
-15	108	7620	112	5650	112	5360	112	5080	112	4800	116	120
-10	107	9040	114	6390	114	6070	114	5750	114	5440	117	120
-5	107	10890	116	7280	116	6880	116	6530	116	6180	118	120
-3	106	11700	116	7580	116	7200	117	6830	117	6470	118	120
0			116	8120	117	7720	118	7330	118	6940	118	120
1			116	8310	118	7900	118	7490	118	7100	118	120

WEIGHT = 11000 LBS — VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	5220	105	4210	105	3980	105	3750	106	3530	111	118
-25	108	5370	105	4330	105	4100	106	3870	106	3650	111	118
-20	109	5770	107	4690	107	4440	107	4200	107	3960	112	118
-15	111	6320	108	5150	108	4880	109	4620	109	4360	113	118
-10	110	7400	110	5820	110	5520	111	5220	111	4930	114	118
-5	109	8830	112	6590	112	6250	112	5920	113	5600	115	118
0	108	10510	114	7370	114	7000	114	6630	114	6270	115	118
1	108	10900	114	7530	114	7150	114	6780	115	6420	115	118
5			115	8250	115	7840	116	7430	116	7040	116	118
8			116	8800	116	8370	116	7940	116	7520	116	118

WEIGHT = 10000 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	4590	99	3690	100	3480	100	3280	100	3080	107	115
-25	102	4700	99	3770	100	3560	100	3360	100	3160	106	114
-20	102	4910	100	3940	100	3720	100	3510	100	3300	106	113
-15	103	5240	101	4240	101	4000	101	3780	101	3560	106	113
-10	106	5900	103	4770	103	4510	103	4260	104	4010	107	113
-5	108	6640	105	5380	105	5090	105	4810	105	4540	108	113
0	109	7400	107	6000	107	5680	107	5370	107	5070	109	113
5	110	8250	108	6690	108	6340	108	6000	109	5660	110	113
8	110	8780	109	7130	109	6750	109	6390	109	6040	110	113
10	110	9160	110	7440	110	7050	110	6680	110	6310	110	113

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	4060	94	3250	95	3070	95	2890	95	2710	103	113
-25	96	4150	94	3330	95	3140	95	2950	95	2770	103	112
-20	96	4310	94	3450	95	3250	95	3060	95	2870	102	110
-15	97	4490	94	3580	95	3380	95	3180	95	2980	101	109
-10	98	4790	95	3850	95	3630	96	3420	96	3210	100	107
-5	100	5380	97	4320	97	4080	98	3840	98	3610	101	107
0	102	5980	99	4810	99	4540	99	4280	99	4020	102	107
5	103	6630	101	5340	101	5040	101	4760	101	4480	103	107
10	104	7340	102	5910	102	5590	102	5270	102	4970	104	107

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3800	91	3040	92	2870	92	2700	93	2530	101	112
-25	93	3890	91	3110	92	2930	92	2760	93	2590	101	111
-20	94	4020	92	3220	92	3030	92	2850	93	2670	100	109
-15	94	4180	92	3340	92	3140	92	2950	93	2770	99	107
-10	94	4390	92	3490	92	3290	92	3090	92	2900	97	105
-5	95	4800	93	3840	93	3620	93	3400	94	3190	98	104
0	97	5330	95	4260	95	4020	95	3780	95	3550	99	104
5	99	5900	96	4730	97	4460	97	4200	97	3940	99	104
10	100	6520	98	5230	98	4930	98	4650	98	4370	100	104

Figure 4-21 (Sheet 11)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
11,000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO

SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 141 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	105	8600	115	5820	115	5520	115	5240	116	4960	119	125
-25	104	9240	114	6150	116	5820	116	5520	116	5230	120	125
-20	103	10320	113	6910	117	6310	117	5990	117	5680	120	125
-15	102	11850	112	7950	116	7060	119	6620	119	6280	121	125
-10			112	9620	115	8550	119	7540	121	7160	122	125
-9			111	10010	115	8910	118	7810	121	7350	122	125

WEIGHT = 12200 LBS — VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	105	8150	114	5650	114	5360	114	5080	114	4810	118	124
-25	104	8750	115	5950	115	5650	115	5360	115	5070	119	124
-20	104	9770	114	6460	116	6130	116	5810	116	5510	119	124
-15	103	11200	113	7420	117	6760	118	6420	118	6090	120	124
-10			112	8950	116	7910	119	7310	120	6930	121	124
-9			112	9310	116	8220	119	7500	120	7120	121	124
-8			112	9690	116	8580	119	7700	120	7310	122	124

WEIGHT = 12000 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	106	7650	113	5460	113	5180	113	4910	113	4640	117	123
-25	105	8220	113	5750	113	5460	114	5170	114	4900	118	123
-20	104	9160	114	6230	115	5920	115	5610	115	5310	118	123
-15	104	10490	114	6870	116	6530	116	6190	116	5870	119	123
-10			113	8210	117	7420	118	7040	118	6680	120	123
-8			113	8880	116	7820	119	7430	119	7040	120	123
-5			113	10000	116	8800	119	8010	120	7600	121	123

WEIGHT = 11500 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	109	6460	109	5000	109	4740	110	4490	110	4240	114	120
-25	108	6940	110	5260	110	4990	110	4730	110	4470	115	120
-20	107	7730	111	5700	111	5410	111	5120	112	4850	115	120
-15	106	8810	113	6280	113	5960	113	5650	113	5350	116	120
-10	105	10540	115	7120	115	6760	115	6410	115	6080	117	120
-5			115	8070	117	7670	117	7280	117	6900	118	120
-2			114	8770	118	8250	118	7840	118	7430	118	120

WEIGHT = 11000 LBS — VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	108	5660	106	4570	106	4330	106	4090	106	3860	111	118
-25	109	5900	106	4810	106	4550	107	4310	107	4070	112	118
-20	109	6400	108	5200	108	4930	108	4660	108	4410	112	118
-15	109	7280	109	5720	109	5420	109	5140	110	4860	113	118
-10	108	8640	111	6470	111	6140	111	5820	112	5510	114	118
-5	107	10370	113	7320	113	6950	113	6590	113	6240	115	118
-2	107	11620	114	7870	114	7480	114	7090	114	6720	115	118
0	106	12520	115	8230	115	7820	115	7420	115	7030	116	118
5			116	9220	116	8770	116	8320	116	7890	116	118

WEIGHT = 10000 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	4900	99	3940	100	3720	100	3510	100	3300	106	114
-25	102	5040	99	4060	100	3830	100	3620	100	3400	106	113
-20	103	5310	100	4280	100	4050	101	3820	101	3600	106	113
-15	104	5790	102	4700	102	4440	102	4200	102	3960	107	113
-10	107	6530	104	5300	104	5020	104	4740	104	4470	108	113
-5	109	7350	106	5970	106	5660	106	5350	106	5050	109	113
0	109	8230	107	6690	108	6340	108	6000	108	5670	109	113
5	110	9170	109	7460	109	7080	109	6700	109	6340	110	113
10	110	10560	110	8330	111	7910	111	7490	111	7090	111	113

WEIGHT = 9000 LBS — VENR = 119 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	4320	94	3470	95	3270	95	3080	95	2890	102	112
-25	96	4440	94	3560	95	3360	95	3160	95	2970	102	111
-20	97	4600	94	3690	95	3480	95	3270	95	3080	101	109
-15	97	4800	94	3850	95	3630	95	3420	95	3210	100	107
-10	99	5290	96	4260	96	4020	96	3790	97	3570	101	107
-5	101	5940	98	4790	98	4520	98	4270	99	4010	102	107
0	102	6630	100	5350	100	5050	100	4770	100	4490	103	107
5	104	7360	101	5940	101	5620	102	5300	102	5000	104	107
10	104	8170	103	6600	103	6250	103	5900	103	5570	104	107

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	4050	92	3240	92	3050	92	2870	93	2700	100	110
-25	94	4150	92	3320	92	3130	92	2950	93	2770	100	110
-20	94	4290	92	3440	92	3240	92	3050	93	2860	99	108
-15	94	4470	92	3570	92	3360	92	3160	92	2970	98	106
-10	94	4750	92	3810	92	3590	93	3380	93	3170	97	104
-5	96	5300	94	4250	94	4010	94	3770	95	3540	98	104
0	98	5900	96	4740	96	4470	96	4210	96	3960	99	104
5	100	6540	97	5250	97	4960	98	4670	98	4400	100	104
10	101	7240	99	5830	99	5510	99	5190	99	4890	101	104

Figure 4-21 (Sheet 12)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
12,000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 142 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	9790	113	6580	116	6100	116	5790	116	5480	120	125
-25	102	10660	112	7230	116	6490	117	6160	117	5840	120	125
-20	101	11800	111	8030	115	7180	118	6640	118	6300	121	125
-15			110	9410	114	8430	117	7430	120	7040	122	125
-13			110	10150	113	9090	117	8030	120	7410	122	125
-12			110	10560	113	9470	117	8370	120	7610	122	125

WEIGHT = 12200 LBS — VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	9280	114	6230	115	5920	115	5610	115	5320	119	124
-25	102	10100	113	6760	116	6300	116	5980	116	5670	119	124
-20	102	11170	112	7520	115	6770	117	6440	117	6100	120	124
-15			111	8790	115	7820	118	7180	119	6820	121	124
-12			111	9840	114	8770	117	7760	120	7370	121	124
-11			110	10240	114	9140	117	8020	120	7560	121	124

WEIGHT = 12000 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	104	8710	113	6020	114	5710	114	5420	114	5130	118	123
-25	103	9480	114	6400	114	6080	115	5770	115	5470	118	123
-20	102	10480	113	6950	115	6540	116	6210	116	5890	119	123
-15			112	8110	115	7290	117	6930	117	6570	120	123
-11			111	9430	115	8330	118	7680	119	7290	120	123
-10			111	9800	115	8680	118	7880	119	7490	120	123
-8					114	9440	118	8310	120	7890	121	123

WEIGHT = 11500 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	7380	110	5510	110	5230	110	4950	111	4680	115	120
-25	106	8020	111	5860	111	5560	111	5270	111	4990	115	120
-20	105	8850	112	6290	112	5980	112	5670	112	5370	116	120
-15	104	10270	114	7000	114	6650	114	6320	114	5980	117	120
-10	103	12350	114	7940	116	7550	116	7170	116	6800	118	120
-8			113	8420	116	7950	116	7560	117	7170	118	120
-5			113	9480	116	8580	118	8160	118	7740	118	120

WEIGHT = 11000 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	109	6160	106	5030	107	4770	107	4510	107	4260	112	118
-25	108	6680	107	5340	108	5070	108	4800	108	4540	112	118
-20	107	7360	108	5740	109	5440	109	5160	109	4880	113	118
-15	107	8500	110	6380	110	6050	110	5740	111	5430	114	118
-10	106	10140	112	7220	112	6860	112	6500	112	6160	115	118
-5	105	12290	114	8180	114	7780	114	7380	114	7000	115	118
0			114	9210	116	8760	116	8320	116	7890	116	118
2			114	9660	116	9180	116	8720	116	8280	116	118

WEIGHT = 10000 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	5240	99	4220	100	3990	100	3770	100	3550	106	113
-25	102	5470	100	4410	100	4170	101	3940	101	3710	106	113
-20	103	5800	101	4720	101	4470	101	4220	102	3980	106	113
-15	105	6430	103	5230	103	4950	103	4680	103	4420	107	113
-10	108	7240	105	5900	105	5590	105	5290	105	5000	108	113
-5	109	8170	107	6660	107	6320	107	5980	107	5650	109	113
0	110	9160	108	7470	108	7090	109	6720	109	6350	110	113
2	110	9570	109	7810	109	7410	109	7030	109	6650	110	113
5	109	10720	110	8330	110	7910	110	7500	110	7100	111	113
10	108	13320	111	9350	111	8890	111	8430	111	7990	111	113

WEIGHT = 9000 LBS — VENR = 119 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	4600	94	3700	95	3490	95	3290	95	3090	102	111
-25	96	4750	94	3810	95	3600	95	3390	95	3190	101	109
-20	97	4910	94	3940	95	3720	95	3510	95	3300	101	108
-15	97	5230	95	4220	95	3990	96	3760	96	3530	100	107
-10	100	5860	97	4740	97	4480	97	4220	98	3980	101	107
-5	102	6590	99	5330	99	5040	99	4760	99	4480	102	107
0	103	7360	101	5960	101	5640	101	5320	101	5020	103	107
5	104	8170	102	6620	102	6270	102	5920	103	5590	104	107
10	105	9120	104	7390	104	7000	104	6630	104	6260	105	107

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	94	4300	92	3450	92	3250	92	3060	93	2880	100	109
-25	94	4430	92	3550	92	3350	92	3150	93	2960	99	108
-20	94	4580	92	3670	92	3460	92	3260	92	3060	99	107
-15	94	4780	92	3820	92	3610	92	3390	92	3190	98	105
-10	95	5230	93	4210	93	3970	93	3740	94	3510	98	104
-5	97	5870	95	4730	95	4460	95	4200	95	3950	99	104
0	99	6540	97	5270	97	4980	97	4690	97	4420	100	104
5	100	7250	98	5850	98	5530	98	5210	98	4910	100	104
10	101	8070	100	6520	100	6160	100	5820	100	5490	101	104

Figure 4-21 (Sheet 13)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
13,000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 142 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	101	11220	111	7690	115	6860	117	6430	117	6100	120	125
-25	100	11340	110	8450	114	7570	117	6860	118	6510	121	125
-20			109	9400	113	8450	116	7500	119	7010	121	125
-15					112	10040	115	8950	118	7880	122	125
-14					112	10460	115	9320	118	8170	122	125

WEIGHT = 12200 LBS — VENR = 141 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	101	10650	112	7200	115	6560	116	6230	116	5910	119	124
-25			111	7910	114	7060	117	6650	117	6310	120	124
-20			110	8800	113	7870	117	7150	118	6790	120	124
-15			109	10420	112	9350	116	8260	119	7630	121	124
-14			109	10840	112	9720	116	8610	119	7840	121	124
-13					112	10130	115	8980	119	8050	121	124

WEIGHT = 12000 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	10000	113	6670	114	6340	115	6020	115	5700	118	123
-25	101	10910	112	7320	115	6760	115	6420	116	6090	119	123
-20	101	12060	111	8150	114	7260	116	6900	117	6550	119	123
-15			110	9610	113	8570	117	7740	118	7360	120	123
-13			110	10400	113	9290	116	8160	119	7750	120	123
-11					113	10100	116	8880	119	8190	121	123

WEIGHT = 11500 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	105	8480	111	6100	111	5800	111	5500	111	5200	115	120
-25	104	9240	112	6500	112	6170	112	5860	112	5550	116	120
-20	103	10200	113	6970	113	6630	113	6290	113	5970	116	120
-15	102	11960	112	7800	115	7420	115	7050	115	6690	117	120
-11			112	9040	115	8250	116	7840	116	7440	118	120
-10			111	9390	115	8460	117	8050	117	7640	118	120
-8			111	10210	114	8930	117	8480	117	8050	118	120

WEIGHT = 11000 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	7070	107	5570	108	5280	108	5000	108	4730	112	118
-25	106	7710	108	5920	108	5620	109	5330	109	5040	113	118
-20	105	8500	109	6350	109	6030	110	5720	110	5420	113	118
-15	105	9910	111	7100	111	6750	111	6400	111	6070	114	118
-10	104	11950	113	8070	113	7680	113	7290	113	6910	115	118
-8			114	8500	114	8080	114	7680	114	7280	115	118
-5			113	9180	115	8730	115	8300	115	7880	116	118
0					116	9840	116	9360	117	8890	117	118

WEIGHT = 10000 LBS — VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	5670	100	4590	100	4340	101	4100	101	3870	106	113
-25	103	5980	101	4870	101	4610	101	4360	102	4110	106	113
-20	104	6400	102	5220	102	4940	102	4670	103	4410	107	113
-15	106	7120	104	5810	104	5510	104	5220	104	4930	108	113
-10	109	8060	106	6580	106	6250	106	5920	106	5590	109	113
-5	109	9120	108	7460	108	7080	108	6710	108	6350	110	113
0	108	10800	109	8360	109	7940	109	7530	109	7130	110	113
5	107	13190	111	9350	111	8890	111	8430	111	7990	111	113
7			111	9800	111	9320	111	8850	111	8390	111	113

WEIGHT = 9000 LBS — VENR = 119 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	4910	94	3950	95	3730	95	3520	95	3310	101	109
-25	97	5070	94	4080	95	3850	95	3630	95	3410	101	108
-20	97	5260	95	4240	95	4010	95	3780	95	3560	100	107
-15	98	5770	96	4680	96	4420	96	4170	97	3930	101	107
-10	101	6510	98	5280	98	4990	98	4710	99	4440	102	107
-5	103	7340	100	5950	100	5630	100	5320	100	5020	103	107
0	104	8190	101	6650	102	6300	102	5960	102	5620	104	107
5	104	9110	103	7400	103	7020	103	6640	103	6270	104	107
7	105	9530	104	7750	104	7340	104	6950	104	6570	105	107
10	105	10200	104	8290	104	7870	105	7450	105	7040	105	107

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	94	4590	92	3680	92	3480	92	3270	92	3080	99	108
-25	94	4730	92	3790	92	3580	92	3370	92	3170	99	107
-20	94	4880	92	3920	92	3700	92	3480	92	3280	98	106
-15	94	5180	92	4180	92	3940	92	3720	93	3490	97	104
-10	96	5800	94	4680	94	4420	94	4170	94	3920	98	104
-5	98	6530	96	5270	96	4980	96	4700	96	4420	99	104
0	100	7270	97	5880	98	5560	98	5250	98	4950	100	104
5	101	8070	99	6530	99	6180	99	5840	99	5500	101	104
10	101	9010	100	7300	100	6910	101	6530	101	6170	101	104

Figure 4-21 (Sheet 14)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - UP
14,000 FEET

CONDITIONS: ANTI-ICE ON
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS VENR = 142 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30			109	9020	112	8110	116	7210	118	6820	121	125
-25			108	9870	111	8910	115	7950	118	7250	121	125
-20			107	11110	110	10060	114	9010	117	7950	122	125
-18					110	10700	113	9600	117	8470	122	125
-17							113	9960	117	8810	122	125

WEIGHT = 12200 LBS VENR = 141 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	100	12310	110	8460	113	7570	117	6960	117	6610	120	124
-25			109	9250	112	8320	116	7390	118	7030	120	124
-20			108	10410	111	9390	115	8360	118	7620	121	124
-17					111	10340	114	9230	117	8130	121	124
-16					111	10760	114	9610	117	8450	121	124

WEIGHT = 12000 LBS VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	101	11560	111	7840	114	7070	116	6720	116	6380	119	123
-25			110	8570	113	7670	116	7130	116	6770	119	123
-20			109	9650	112	8650	115	7730	117	7350	120	123
-16			108	11020	111	9890	115	8760	118	8050	120	123
-15					111	10300	115	9130	118	8260	120	123
-13							114	9960	117	8720	121	123

WEIGHT = 11500 LBS VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	9800	112	6800	112	6460	112	6130	112	5810	116	120
-25	102	10640	112	7200	113	6850	113	6510	113	6170	116	120
-20	101	11890	111	7850	114	7420	114	7050	114	6690	117	120
-15			110	9250	113	8310	116	7910	116	7510	118	120
-13			110	10020	113	8860	116	8340	117	7920	118	120
-10					113	10040	116	9030	118	8580	118	120

WEIGHT = 11000 LBS VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	105	8200	108	6200	109	5880	109	5580	109	5280	113	118
-25	104	8890	109	6560	109	6240	110	5920	110	5600	113	118
-20	103	9900	110	7090	110	6740	111	6400	111	6070	114	118
-15	103	11610	112	7930	112	7550	112	7170	112	6800	115	118
-10			112	9030	114	8600	114	8170	114	7760	115	118
-5			111	10850	114	9790	116	9310	116	8840	116	118
-4					114	10040	116	9560	116	9080	116	118

WEIGHT = 10000 LBS VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	104	6250	101	5090	101	4830	102	4560	102	4310	106	113
-25	104	6600	102	5390	102	5110	102	4830	102	4570	107	113
-20	106	7110	103	5820	103	5520	103	5220	104	4940	107	113
-15	107	7920	105	6490	105	6150	105	5830	105	5520	108	113
-10	107	8970	107	7350	107	6980	107	6620	107	6270	109	113
-5	107	10790	108	8330	109	7910	109	7510	109	7110	110	113
-4	106	11230	109	8540	109	8110	109	7700	109	7300	110	113
0	106	13130	110	9360	110	8900	110	8450	110	8010	111	113
4			111	10270	111	9770	111	9280	111	8800	111	113

WEIGHT = 9000 LBS VENR = 120 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	96	5260	94	4230	95	4000	95	3770	95	3550	101	108
-25	97	5430	94	4380	95	4150	95	3910	95	3690	100	107
-20	97	5770	95	4680	95	4430	96	4180	96	3940	100	107
-15	99	6410	97	5210	97	4930	97	4660	98	4390	101	107
-10	102	7230	99	5880	99	5570	99	5260	99	4970	102	107
-5	103	8150	101	6630	101	6290	101	5950	101	5620	103	107
0	104	9120	102	7430	102	7040	103	6670	103	6300	104	107
4	105	9960	103	8120	104	7700	104	7290	104	6900	105	107
5	105	10190	104	8310	104	7880	104	7470	104	7060	105	107
8	105	10910	105	8900	105	8450	105	8010	105	7580	105	107

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	94	4900	92	3940	92	3720	92	3510	92	3300	99	107
-25	94	5040	92	4060	92	3830	92	3610	92	3400	98	106
-20	94	5230	92	4210	92	3980	92	3750	92	3530	97	105
-15	95	5720	93	4620	93	4370	93	4120	93	3880	98	104
-10	97	6440	95	5210	95	4930	95	4650	95	4380	99	104
-5	99	7250	97	5870	97	5550	97	5240	97	4940	100	104
0	101	8080	98	6550	98	6210	98	5870	99	5530	101	104
5	101	9010	100	7320	100	6930	100	6550	100	6190	101	104
8	102	9640	101	7830	101	7420	101	7020	101	6630	102	104

Figure 4-21 (Sheet 15)

TAKEOFF FIELD LENGTH - FEET, FLAPS 15° (DRY RUNWAY OVER A 35 FOOT SCREEN HEIGHT) (ANTI-ICE OFF)

Determine takeoff field length, V_1, V_R, V_2 and V_{ENR} from Figure 4-23. If the runway has a gradient, adjust V_1 and takeoff field length using figure 4-22.

If the required distance is greater than the available distance, the airplane weight must be reduced until distance required is less than or equal to distance available.

TAKEOFF FIELD LENGTH WITH RUNWAY GRADIENT FLAPS 15°, ANTI-ICE OFF

ZERO RUNWAY GRADIENT	UPHILL GRADIENT SHADED AND NON-SHADED				DOWNHILL GRADIENT SHADED		DOWNHILL GRADIENT NON-SHADED	
	2%	1.5%	1%	0.5%	-1%	-2%	-1%	-2%
	V_1 + 1** Knot	V_1 + 1** Knot	V_1*	V_1*	V_1 - 3 Knots	V_1 - 5 Knots	V_1 + 1** Knot	V_1 + 1** Knot
1800	2050	2000	1950	1900	1800	1800	1900	1900
2000	2350	2250	2200	2150	2100	2000	2100	2150
2200	2600	2500	2400	2350	2250	2200	2350	2350
2400	2900	2700	2650	2550	2400	2400	2550	2550
2600	3150	3000	2850	2800	2650	2600	2750	2750
2800	3450	3250	3100	3000	2800	2750	2950	2950
3000	3750	3500	3350	3200	3000	2950	3150	3200
3200	4050	3750	3550	3400	3200	3150	3350	3350
3400	4500	4150	3750	3650	3400	3350	3550	3600
3600	5050	4550	4000	3900	3600	3550	3750	3800
3800	5450	4850	4200	4150	3800	3750	3950	4000
4000	5750	5100	4500	4350	4000	3950	4150	4200
4200	6050	5400	4700	4550	4200	4050	4350	4350
4400	6400	5650	4900	4750	4400	4200	4550	4550
4600	6700	5900	5200	5000	4600	4400	4750	4750
4800	7000	6150	5500	5150	4800	4600	4950	4950
5000	7250	6400	5750	5400	5000	4750	5150	5150
5200	7500	6650	6000	5600	5200	4950	5350	5350
5400	7800	6900	6250	5850	5350	5150	5550	5500
5600	8250	7250	6600	6100	5550	5300	5750	5650
5800	8800	7700	6900	6400	5750	5450	5900	5850
6000	9450	8050	7200	6600	5900	5650	6100	6000
6200	10000	8500	7500	6800	6100	5800	6300	6200
6400	10400	8800	7850	7100	6300	5950	6400	6300
6600	10750	9100	8100	7250	6450	6100	6550	6450
6800	11050	9400	8300	7450	6650	6300	6700	6600
7000	11400	9600	8500	7700	6850	6450	6850	6700
7200	11700	9900	8750	7900	7000	6600	6950	6850
7400	12050	10150	9000	8100	7150	6750	7100	7000
7600	12400	10400	9300	8350	7350	6950	7250	7100
7800	12700	10650	9550	8600	7500	7100	7350	7250
8000	12950	10950	9750	8800	7700	7200	7500	7350
8200	13150	11150	9950	9000	7850	7350	7600	7450
8400	13450	11400	10200	9200	8000	7500	7700	7600
8600	13750	11650	10450	9450	8150	7600	7800	7700
8800	14050	11950	10700	9650	8300	7700	7950	7800
9000	14350	12200	10950	9900	8450	7850	8050	7900
9500	15100	12850	11500	10400	8850	8200	8400	8100
10000		13500	12100	11000	9200	8550	8750	8300
10500		14100	12650	11500	9650	8850	9150	8500
11000		14750	13250	12000	10050	9200	9550	8650
12000		15900	14350	13050	10800	9800	10250	9000

* No V_1 adjustment necessary.
** If the adjusted V_1 is greater than V_R, the value of V_R must be used for V_1.

Figure 4-22

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
SEA LEVEL

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	107	3970	105	3030	105	2830	105	2640	105	2450	107	115
-20	107	4020	104	3080	105	2880	105	2680	105	2500	107	115
-15	107	4070	104	3130	105	2930	105	2730	105	2540	107	115
-10	107	4130	104	3180	105	2980	105	2780	105	2590	107	115
-5	107	4180	104	3230	105	3020	105	2830	105	2630	107	115
0	107	4220	104	3280	104	3070	105	2870	105	2680	107	115
5	107	4270	104	3330	104	3120	105	2920	105	2720	107	115
10	107	4320	104	3380	104	3170	105	2960	105	2770	107	115
15	107	4380	104	3420	104	3210	104	3010	105	2810	107	115
20	107	4430	104	3470	104	3260	104	3060	105	2860	107	115
25	107	4580	104	3590	105	3370	105	3160	105	2950	107	115
30	108	4970	106	3820	106	3590	106	3370	106	3150	108	115
35	108	5430	107	4080	107	3840	107	3600	108	3380	108	115
40	109	6030	109	4390	109	4140	109	3880	109	3640	109	114
44	110	6640	110	4740	110	4470	110	4210	110	3960	110	115
45	110	6820	110	4840	110	4570	110	4310	110	4060	110	115

WEIGHT = 12200 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	106	3860	103	2950	104	2760	104	2570	104	2390	106	114
-20	106	3910	103	3000	104	2810	104	2620	104	2430	106	114
-15	106	3960	103	3050	104	2850	104	2660	104	2480	106	114
-10	106	4010	103	3100	104	2900	104	2710	104	2520	106	114
-5	106	4060	103	3150	103	2950	104	2750	104	2560	106	114
0	106	4110	103	3200	103	2990	104	2800	104	2610	106	114
5	106	4170	103	3240	103	3040	104	2840	104	2650	106	115
10	106	4220	103	3290	103	3090	103	2890	104	2700	106	115
15	106	4280	103	3340	103	3130	103	2930	104	2740	106	115
20	106	4330	103	3390	103	3180	103	2980	104	2780	106	115
25	107	4460	103	3500	104	3280	104	3080	104	2880	107	114
30	107	4830	105	3720	105	3500	105	3280	105	3070	107	114
35	108	5270	106	3980	106	3740	106	3510	107	3290	108	114
40	108	5840	107	4280	108	4020	108	3780	108	3540	108	114
45	109	6580	109	4700	109	4420	109	4170	109	3920	109	114
46	109	6760	109	4800	109	4530	109	4270	109	4020	109	114

WEIGHT = 12000 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	105	3740	102	2870	102	2680	103	2490	103	2320	105	114
-20	105	3790	102	2920	102	2730	103	2540	103	2360	105	114
-15	105	3840	102	2970	102	2770	103	2580	103	2400	105	114
-10	105	3900	102	3010	102	2820	103	2630	103	2450	105	114
-5	105	3950	102	3060	102	2860	102	2670	103	2490	105	114
0	105	4000	102	3110	102	2910	102	2720	103	2530	105	114
5	105	4060	102	3150	102	2950	102	2760	103	2570	105	114
10	105	4110	102	3200	102	3000	102	2800	102	2610	105	114
15	105	4160	102	3240	102	3040	102	2850	102	2660	105	114
20	105	4210	102	3290	102	3090	102	2890	102	2700	105	114
25	105	4340	102	3400	102	3190	103	2990	103	2790	106	114
30	106	4670	103	3620	104	3400	104	3180	104	2980	106	113
35	107	5090	105	3860	105	3630	105	3400	105	3190	107	113
40	107	5620	106	4150	106	3900	107	3660	107	3430	107	113
45	108	6320	108	4540	108	4270	108	4010	108	3760	108	113
46	108	6480	108	4630	108	4360	108	4100	108	3860	108	113
48	108	6850	108	4840	108	4570	108	4310	108	4050	108	113

WEIGHT = 11800 LBS — VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	104	3630	101	2790	101	2600	101	2420	102	2250	104	113
-20	104	3690	101	2830	101	2650	101	2460	102	2290	104	113
-15	104	3740	101	2880	101	2690	101	2510	102	2330	104	113
-10	104	3790	101	2930	101	2740	101	2550	102	2370	104	113
-5	104	3850	101	2970	101	2780	101	2590	101	2410	104	113
0	104	3890	101	3020	101	2820	101	2640	101	2450	104	113
5	104	3940	101	3060	101	2870	101	2680	101	2490	104	113
10	104	3990	100	3110	101	2910	101	2720	101	2540	104	113
15	104	4050	100	3150	101	2950	101	2760	101	2580	104	113
20	104	4100	100	3200	101	3000	101	2800	101	2620	104	113
25	104	4220	101	3300	101	3090	101	2900	102	2710	105	113
30	105	4510	102	3510	102	3300	103	3090	103	2880	105	113
35	106	4920	104	3740	104	3520	104	3300	104	3090	106	112
40	106	5420	105	4020	105	3780	105	3550	106	3320	106	112
45	107	6070	107	4380	107	4120	107	3870	107	3630	107	112
48	107	6560	107	4660	107	4390	107	4130	107	3890	107	112
49	107	6740	107	4760	107	4490	107	4230	107	3980	107	112

WEIGHT = 11600 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	103	3540	100	2710	100	2520	100	2350	100	2180	103	112
-20	103	3590	100	2750	100	2570	100	2390	100	2220	103	112
-15	103	3640	100	2800	100	2610	100	2430	100	2260	103	112
-10	103	3690	99	2840	100	2650	100	2470	100	2300	103	112
-5	103	3740	99	2890	100	2700	100	2520	100	2340	103	112
0	103	3790	99	2930	100	2740	100	2560	100	2380	103	112
5	102	3840	99	2970	100	2780	100	2600	100	2420	103	112
10	102	3880	99	3020	99	2820	100	2640	100	2460	103	112
15	102	3930	99	3060	99	2870	100	2680	100	2500	103	112
20	102	3980	99	3100	99	2910	100	2720	100	2540	103	112
25	103	4100	100	3200	100	3000	100	2810	100	2620	103	112
30	104	4360	101	3410	101	3200	101	2990	102	2790	104	112
35	105	4750	102	3630	103	3410	103	3200	103	2990	105	111
40	105	5220	104	3900	104	3660	104	3440	104	3210	105	111
45	106	5820	105	4230	105	3980	105	3730	106	3490	106	111
49	106	6450	106	4580	106	4310	106	4060	106	3810	106	111
50	106	6610	106	4670	106	4410	106	4150	106	3900	106	111
51	107	6790	107	4780	107	4510	107	4250	107	4000	107	111

WEIGHT = 11400 LBS — VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	102	3440	98	2630	99	2450	99	2280	99	2110	102	111
-20	102	3490	98	2670	99	2490	99	2320	99	2150	102	111
-15	101	3540	98	2710	99	2530	99	2360	99	2190	102	111
-10	101	3580	98	2760	98	2580	99	2400	99	2230	102	111
-5	101	3630	98	2800	98	2620	99	2440	99	2270	102	111
0	101	3680	98	2840	98	2660	99	2480	99	2300	102	111
5	101	3730	98	2880	98	2700	99	2520	99	2340	102	111
10	101	3780	98	2930	98	2740	98	2560	99	2380	102	111
15	101	3820	98	2970	98	2780	98	2600	99	2420	102	111
20	101	3870	98	3010	98	2820	98	2640	99	2460	102	111
25	101	3990	98	3110	99	2910	99	2720	99	2540	102	111
30	103	4230	100	3300	100	3100	100	2900	100	2710	103	111
35	104	4580	101	3530	101	3310	101	3100	102	2890	104	111
40	104	5030	103	3780	103	3550	103	3330	103	3110	104	110
45	105	5600	104	4080	104	3840	104	3600	104	3370	105	110
50	105	6330	105	4510	105	4240	105	3980	105	3740	105	110
51	105	6490	105	4600	105	4320	105	4070	105	3830	105	110
53	106	6850	106	4810	106	4540	106	4270	106	4020	106	110

Figure 4-23 (Sheet 1 of 30)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
SEA LEVEL

CONDITIONS: ANTI-ICE OFF
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	99	3240	96	2480	96	2310	96	2140	96	1980	100	109
-20	99	3290	96	2520	96	2350	96	2180	96	2020	100	109
-15	99	3340	95	2560	96	2390	96	2220	96	2060	100	109
-10	99	3380	95	2600	96	2420	96	2260	96	2090	100	109
-5	99	3430	95	2640	96	2460	96	2290	96	2130	100	109
0	98	3470	95	2680	96	2500	96	2330	96	2170	100	109
5	98	3520	95	2720	96	2540	96	2370	96	2200	100	109
10	98	3560	95	2760	95	2580	96	2400	96	2240	100	109
15	98	3610	95	2800	95	2620	96	2440	96	2270	100	109
20	98	3650	95	2840	95	2650	96	2480	96	2310	100	109
25	99	3760	96	2920	96	2740	96	2560	96	2380	100	109
30	100	3990	97	3100	97	2910	98	2720	98	2530	101	109
35	101	4260	98	3310	99	3100	99	2900	99	2710	101	109
40	102	4670	100	3550	100	3330	100	3110	101	2910	102	109
45	103	5170	101	3820	102	3590	102	3360	102	3140	103	108
50	103	5800	103	4180	103	3930	103	3680	103	3440	103	108
53	104	6250	104	4440	104	4170	104	3910	104	3670	104	108
55	104	6590	104	4620	104	4350	104	4100	104	3850	104	108

WEIGHT = 10500 LBS VENR = 128 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	95	3020	94	2340	94	2170	94	2000	94	1830	97	107
-20	95	3060	93	2380	93	2210	93	2030	93	1870	97	107
-15	95	3100	93	2420	93	2240	93	2070	93	1900	97	107
-10	95	3140	93	2470	93	2280	93	2110	93	1940	97	107
-5	95	3190	93	2510	93	2320	93	2150	93	1980	97	107
0	95	3230	93	2550	93	2360	93	2180	93	2010	97	107
5	95	3270	93	2590	93	2400	93	2220	93	2050	97	107
10	95	3310	93	2630	93	2440	93	2260	93	2090	97	107
15	95	3350	93	2670	93	2480	93	2300	93	2120	97	107
20	95	3390	93	2710	93	2520	93	2340	93	2160	97	107
25	95	3490	93	2710	93	2530	93	2360	93	2190	98	107
30	97	3700	94	2860	94	2680	94	2500	94	2330	98	107
35	98	3930	95	3050	95	2850	96	2670	96	2480	99	107
40	99	4250	97	3270	97	3060	97	2860	97	2660	99	106
45	100	4680	98	3510	98	3290	99	3080	99	2870	100	106
50	100	5210	100	3810	100	3570	100	3340	100	3120	100	106
55	101	5850	101	4180	101	3930	101	3680	101	3440	101	106

WEIGHT = 10000 LBS VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	94	2890	94	2330	94	2160	94	1990	94	1830	96	107
-20	94	2940	94	2370	94	2200	94	2030	94	1860	96	107
-15	94	2980	94	2410	94	2230	94	2060	94	1900	96	107
-10	94	3030	94	2450	94	2270	94	2100	94	1930	96	107
-5	94	3070	94	2490	94	2310	94	2140	94	1970	96	107
0	94	3120	94	2530	94	2350	94	2170	94	2010	96	107
5	94	3160	94	2570	94	2390	94	2210	94	2040	96	107
10	94	3200	94	2610	94	2430	94	2250	94	2080	96	107
15	94	3250	94	2650	94	2470	94	2290	94	2110	96	107
20	94	3290	94	2690	94	2510	94	2320	94	2150	97	107
25	93	3300	93	2690	93	2510	93	2320	93	2150	96	106
30	93	3420	90	2640	90	2460	91	2300	91	2130	95	105
35	95	3630	92	2800	92	2620	92	2440	92	2270	96	104
40	96	3880	93	3000	93	2800	94	2610	94	2430	96	104
45	97	4240	95	3220	95	3010	95	2810	95	2620	97	104
50	98	4690	96	3470	97	3250	97	3040	97	2830	98	104
55	98	5220	98	3780	98	3550	98	3320	98	3090	98	103

WEIGHT = 9500 LBS VENR = 122 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	94	2880	94	2330	94	2150	94	1990	94	1830	95	107
-20	94	2920	94	2360	94	2190	94	2020	94	1860	95	107
-15	94	2970	94	2400	94	2230	94	2060	94	1900	96	107
-10	94	3010	94	2440	94	2270	94	2100	94	1930	96	107
-5	94	3050	94	2480	94	2300	94	2130	94	1970	96	107
0	94	3100	94	2520	94	2340	94	2170	94	2000	96	107
5	94	3140	94	2560	94	2380	94	2210	94	2040	96	107
10	94	3190	94	2600	94	2420	94	2240	94	2070	96	107
15	94	3230	94	2640	94	2460	94	2280	94	2110	96	107
20	94	3270	94	2680	94	2500	94	2320	94	2150	96	107
25	93	3270	93	2680	93	2500	93	2320	93	2140	95	106
30	90	3210	90	2620	90	2430	90	2250	90	2080	94	104
35	91	3340	88	2570	88	2400	89	2230	89	2070	93	102
40	93	3560	90	2740	90	2560	90	2380	90	2210	93	102
45	94	3830	91	2940	91	2750	92	2560	92	2380	94	102
50	95	4210	93	3160	93	2960	93	2760	93	2570	95	101
55	95	4660	94	3420	94	3200	95	2990	95	2780	95	101

WEIGHT = 9000 LBS VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	94	2870	94	2320	94	2150	94	1990	94	1830	95	106
-20	94	2910	94	2360	94	2190	94	2020	94	1860	95	106
-15	94	2960	94	2400	94	2230	94	2060	94	1900	95	106
-10	94	3000	94	2440	94	2270	94	2100	94	1930	95	107
-5	94	3040	94	2480	94	2300	94	2130	94	1970	95	107
0	94	3090	94	2520	94	2340	94	2170	94	2000	95	107
5	94	3130	94	2560	94	2380	94	2210	94	2040	95	107
10	94	3170	94	2600	94	2420	94	2240	94	2080	95	107
15	94	3220	94	2640	94	2460	94	2280	94	2110	95	107
20	94	3260	94	2680	94	2490	94	2320	94	2150	95	107
25	93	3260	93	2670	93	2490	93	2310	93	2140	94	106
30	90	3190	90	2610	90	2420	90	2250	90	2080	93	103
35	88	3130	88	2540	88	2360	88	2180	88	2010	91	101
40	89	3270	86	2500	86	2330	86	2170	87	2010	90	99
45	90	3490	88	2670	88	2490	88	2320	88	2150	91	99
50	92	3780	89	2870	89	2680	90	2500	90	2320	92	99
55	92	4150	91	3090	91	2880	91	2690	91	2500	92	99

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	94	2870	94	2330	94	2160	94	2000	94	1840	94	106
-20	94	2910	94	2370	94	2200	94	2030	94	1870	94	106
-15	94	2960	94	2410	94	2230	94	2070	94	1910	94	106
-10	94	3000	94	2450	94	2270	94	2100	94	1940	94	106
-5	94	3040	94	2480	94	2310	94	2140	94	1980	94	106
0	94	3090	94	2520	94	2350	94	2180	94	2010	94	107
5	94	3130	94	2560	94	2390	94	2210	94	2050	94	107
10	94	3170	94	2600	94	2420	94	2250	94	2080	94	107
15	94	3210	94	2640	94	2460	94	2290	94	2120	94	107
20	94	3260	94	2680	94	2500	94	2320	94	2160	94	107
25	93	3250	93	2670	93	2490	93	2320	93	2150	93	106
30	91	3180	91	2600	91	2420	91	2240	91	2080	92	103
35	88	3100	88	2530	88	2350	88	2170	88	2010	90	101
40	85	3030	85	2450	85	2270	85	2100	85	1930	88	98
45	86	3180	84	2420	84	2260	84	2090	84	1940	88	97
50	88	3400	85	2600	85	2420	86	2250	86	2080	88	96
55	89	3690	87	2780	87	2600	87	2410	87	2240	89	96

Figure 4-23 (Sheet 2)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
1000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	107	4110	105	3150	105	2940	105	2750	105	2560	107	115
-20	107	4170	105	3200	105	3000	105	2800	105	2600	107	115
-15	107	4220	105	3250	105	3050	105	2850	105	2650	107	115
-10	107	4270	104	3300	105	3100	105	2890	105	2700	107	115
-5	107	4320	104	3350	105	3150	105	2940	105	2750	107	115
0	107	4370	104	3410	105	3190	105	2990	105	2790	107	115
5	107	4420	104	3460	104	3240	105	3040	105	2840	107	115
10	107	4480	104	3510	104	3300	105	3090	105	2890	107	115
15	107	4580	104	3590	105	3370	105	3160	105	2960	107	115
20	108	4740	105	3700	105	3480	105	3260	105	3050	108	115
25	108	4980	105	3850	106	3620	106	3410	106	3190	108	115
30	108	5390	107	4090	107	3850	107	3620	107	3390	108	115
35	109	5900	108	4370	108	4120	108	3870	108	3630	109	115
40	109	6620	109	4780	109	4500	109	4240	109	3980	109	115
41	110	6790	110	4870	110	4590	110	4320	110	4070	110	115
42	110	6970	110	4970	110	4690	110	4420	110	4170	110	115

WEIGHT = 12200 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	107	4000	104	3070	104	2870	104	2680	104	2490	107	114
-20	107	4050	104	3120	104	2920	104	2730	104	2540	107	114
-15	107	4100	103	3170	104	2970	104	2770	104	2580	107	114
-10	107	4160	103	3220	104	3020	104	2820	104	2630	107	114
-5	107	4200	103	3270	104	3070	104	2870	104	2670	107	114
0	107	4260	103	3320	103	3110	104	2910	104	2720	107	114
5	106	4310	103	3370	103	3160	104	2960	104	2760	107	114
10	106	4370	103	3420	103	3210	104	3010	104	2810	107	114
15	107	4460	103	3500	104	3290	104	3080	104	2880	107	114
20	107	4600	104	3610	104	3390	104	3180	104	2970	107	114
25	107	4840	104	3760	105	3540	105	3320	105	3100	107	114
30	107	5230	106	3990	106	3750	106	3520	106	3300	107	114
35	108	5720	107	4260	107	4010	107	3770	107	3530	108	114
40	109	6390	108	4640	109	4370	109	4110	109	3860	109	114
42	109	6720	109	4830	109	4550	109	4280	109	4020	109	114
43	109	6900	109	4920	109	4640	109	4380	109	4120	109	114

WEIGHT = 12000 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	106	3870	102	2980	103	2790	103	2600	103	2410	106	114
-20	106	3930	102	3030	103	2840	103	2650	103	2460	106	114
-15	106	3980	102	3080	102	2880	103	2690	103	2510	106	114
-10	105	4030	102	3130	102	2930	103	2740	103	2550	106	114
-5	105	4090	102	3180	102	2980	103	2780	103	2590	106	114
0	105	4140	102	3230	102	3020	102	2830	103	2640	105	114
5	105	4200	102	3270	102	3070	102	2870	103	2680	105	114
10	105	4250	102	3330	102	3120	102	2920	103	2730	105	114
15	105	4350	102	3400	102	3190	103	2990	103	2790	106	114
20	106	4470	102	3500	103	3290	103	3080	103	2880	106	114
25	106	4680	103	3650	103	3430	104	3220	104	3010	106	113
30	106	5050	104	3870	105	3640	105	3420	105	3200	106	113
35	107	5520	106	4130	106	3890	106	3650	106	3420	107	113
40	108	6140	107	4480	107	4220	107	3970	108	3720	108	113
43	108	6620	108	4760	108	4480	108	4210	108	3960	108	113
45	108	6990	108	4960	108	4680	108	4410	108	4160	108	113

WEIGHT = 11800 LBS — VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	104	3760	101	2900	101	2710	102	2520	102	2340	105	113
-20	104	3820	101	2950	101	2750	102	2570	102	2390	105	113
-15	104	3870	101	2990	101	2800	101	2610	102	2430	104	113
-10	104	3930	101	3040	101	2840	101	2660	102	2470	104	113
-5	104	3980	101	3090	101	2890	101	2700	102	2520	104	113
0	104	4030	101	3130	101	2940	101	2740	101	2560	104	113
5	104	4080	101	3180	101	2980	101	2790	101	2600	104	113
10	104	4140	101	3230	101	3030	101	2830	101	2650	104	113
15	104	4220	101	3300	101	3100	101	2900	102	2710	105	113
20	104	4350	101	3400	101	3190	102	2990	102	2790	105	113
25	105	4530	102	3540	102	3330	102	3120	103	2920	105	113
30	105	4880	103	3760	103	3530	104	3310	104	3100	105	112
35	106	5320	104	4010	105	3770	105	3540	105	3320	106	112
40	106	5910	106	4330	106	4080	106	3830	106	3590	106	112
45	107	6690	107	4780	107	4500	107	4230	107	3980	107	112
46	107	6880	107	4880	107	4600	107	4340	107	4090	107	112

WEIGHT = 11600 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	103	3660	100	2810	100	2630	100	2440	101	2270	103	112
-20	103	3720	100	2860	100	2670	100	2490	101	2310	103	112
-15	103	3760	100	2910	100	2720	100	2530	100	2350	103	112
-10	103	3820	100	2950	100	2760	100	2580	100	2400	103	112
-5	103	3870	100	3000	100	2800	100	2620	100	2440	103	112
0	103	3920	99	3040	100	2850	100	2660	100	2480	103	112
5	103	3970	99	3090	100	2890	100	2700	100	2520	103	112
10	103	4020	99	3140	100	2940	100	2750	100	2560	103	112
15	103	4110	100	3200	100	3010	100	2810	100	2630	103	112
20	103	4220	100	3300	100	3100	100	2900	101	2710	104	112
25	104	4390	101	3440	101	3230	101	3020	101	2830	104	112
30	104	4710	102	3650	102	3430	102	3210	102	3000	104	112
35	105	5130	103	3890	103	3650	104	3430	104	3210	105	111
40	105	5690	105	4190	105	3940	105	3700	105	3460	105	111
45	106	6410	106	4610	106	4340	106	4080	106	3830	106	111
46	106	6590	106	4710	106	4440	106	4170	106	3910	106	111
47	106	6760	106	4810	106	4530	106	4260	106	4010	106	111

WEIGHT = 11400 LBS — VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	102	3550	98	2730	99	2550	99	2370	99	2200	102	111
-20	102	3610	98	2780	99	2590	99	2410	99	2240	102	111
-15	102	3660	98	2820	99	2630	99	2460	99	2280	102	111
-10	102	3710	98	2860	99	2680	99	2500	99	2320	102	111
-5	101	3760	98	2910	99	2720	99	2540	99	2360	102	111
0	101	3810	98	2950	98	2760	99	2580	99	2400	102	111
5	101	3860	98	3000	98	2800	99	2620	99	2440	102	111
10	101	3910	98	3040	98	2850	99	2660	99	2480	102	111
15	101	3990	98	3110	98	2910	99	2730	99	2540	102	111
20	102	4100	99	3200	99	3000	99	2810	99	2620	103	111
25	103	4270	99	3340	100	3130	100	2930	100	2740	103	111
30	103	4550	101	3540	101	3320	101	3110	101	2910	103	111
35	104	4950	102	3770	102	3540	102	3320	102	3110	104	110
40	104	5470	103	4050	104	3810	104	3570	104	3350	104	110
45	105	6150	105	4450	105	4190	105	3930	105	3680	105	110
47	105	6470	105	4630	105	4360	105	4100	105	3840	105	110
50	106	7010	106	4930	106	4660	106	4390	106	4130	106	110

Figure 4-23 (Sheet 3)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
1000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	99	3360	96	2570	96	2390	96	2230	97	2070	100	109
-20	99	3410	96	2610	96	2440	96	2270	97	2100	100	109
-15	99	3450	96	2650	96	2480	96	2310	97	2140	100	109
-10	99	3500	96	2690	96	2520	96	2340	97	2180	100	109
-5	99	3550	96	2740	96	2560	96	2380	96	2210	100	109
0	99	3590	96	2780	96	2600	96	2420	96	2250	100	109
5	98	3640	95	2820	96	2640	96	2460	96	2290	100	109
10	98	3690	95	2860	96	2680	96	2500	96	2330	100	109
15	99	3760	96	2920	96	2740	96	2560	96	2380	100	109
20	99	3870	96	3010	96	2820	97	2640	97	2460	100	109
25	100	4020	97	3130	97	2940	97	2750	98	2560	101	109
30	101	4250	98	3320	98	3110	98	2910	99	2720	101	109
35	102	4600	99	3540	100	3320	100	3110	100	2900	102	109
40	102	5060	101	3800	101	3570	101	3340	101	3130	102	109
45	103	5650	102	4130	103	3890	103	3650	103	3410	103	108
50	104	6390	104	4560	104	4290	104	4030	104	3770	104	108
52	104	6750	104	4750	104	4470	104	4220	104	3960	104	108

WEIGHT = 10500 LBS — VENR = 128 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	95	3120	93	2400	93	2220	93	2050	93	1900	97	107
-20	95	3160	93	2440	93	2260	93	2090	93	1930	97	107
-15	95	3210	93	2480	93	2300	93	2130	93	1970	97	107
-10	95	3250	93	2530	93	2340	93	2160	93	2000	97	107
-5	95	3290	93	2570	93	2380	93	2200	93	2040	97	107
0	95	3340	93	2610	93	2420	93	2240	93	2080	97	107
5	95	3380	93	2650	93	2460	93	2280	93	2110	97	107
10	95	3430	93	2690	93	2500	93	2320	93	2140	97	107
15	95	3490	93	2720	93	2530	93	2360	93	2190	97	107
20	96	3590	93	2780	93	2600	93	2430	93	2260	98	107
25	96	3730	93	2890	94	2710	94	2530	94	2360	98	107
30	98	3940	95	3060	95	2870	95	2680	95	2500	98	107
35	99	4190	96	3260	96	3050	96	2850	97	2660	99	107
40	100	4600	98	3500	98	3280	98	3070	98	2860	100	106
45	100	5100	99	3770	99	3540	99	3310	100	3100	100	106
50	101	5700	101	4140	101	3890	101	3640	101	3400	101	106
52	101	6000	101	4310	101	4050	101	3790	101	3550	101	106

WEIGHT = 10000 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	93	2960	93	2390	93	2210	93	2040	93	1880	96	106
-20	93	3000	93	2430	93	2250	93	2080	93	1910	96	106
-15	93	3050	93	2470	93	2290	93	2120	93	1950	96	106
-10	93	3090	93	2510	93	2330	93	2150	93	1990	96	106
-5	93	3140	93	2550	93	2370	93	2190	93	2020	96	106
0	93	3190	93	2590	93	2410	93	2230	93	2060	96	107
5	93	3230	93	2640	93	2450	93	2270	93	2100	96	107
10	93	3270	93	2680	93	2490	93	2310	93	2130	96	107
15	93	3300	93	2700	93	2510	93	2330	93	2150	96	106
20	92	3350	92	2710	92	2520	92	2340	92	2160	95	105
25	93	3450	91	2690	91	2500	91	2320	91	2160	95	105
30	94	3640	91	2810	91	2630	92	2460	92	2290	96	104
35	96	3860	93	2990	93	2800	93	2610	93	2430	96	104
40	97	4160	94	3210	94	3000	95	2800	95	2610	97	104
45	97	4600	96	3450	96	3240	96	3020	96	2820	97	104
50	98	5110	97	3750	97	3520	97	3290	98	3070	98	104
52	98	5340	98	3890	98	3650	98	3420	98	3190	98	103

WEIGHT = 9500 LBS — VENR = 122 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	93	2940	93	2380	93	2200	93	2040	93	1870	95	106
-20	93	2980	93	2420	93	2240	93	2070	93	1910	95	106
-15	93	3030	93	2460	93	2280	93	2110	93	1950	95	106
-10	93	3080	93	2500	93	2320	93	2150	93	1980	95	106
-5	93	3120	93	2540	93	2360	93	2190	93	2020	95	106
0	93	3170	93	2580	93	2400	93	2230	93	2060	95	106
5	93	3210	93	2620	93	2440	93	2260	93	2090	95	106
10	93	3250	93	2660	93	2480	93	2300	93	2130	95	106
15	93	3280	93	2690	93	2500	93	2320	93	2150	95	106
20	92	3290	92	2690	92	2510	92	2330	92	2150	95	105
25	91	3280	91	2680	91	2490	91	2310	91	2130	94	104
30	90	3350	88	2620	88	2440	88	2260	88	2090	93	102
35	92	3550	89	2740	89	2560	90	2380	90	2220	93	102
40	94	3800	91	2930	91	2740	91	2550	91	2380	94	102
45	94	4140	92	3150	92	2950	93	2750	93	2560	94	101
50	95	4570	94	3390	94	3180	94	2970	94	2760	95	101
52	95	4770	94	3520	94	3290	95	3080	95	2870	95	101

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	93	2930	93	2380	93	2200	93	2040	93	1880	94	106
-20	93	2970	93	2420	93	2240	93	2070	93	1910	94	106
-15	93	3020	93	2460	93	2280	93	2110	93	1950	94	106
-10	93	3060	93	2500	93	2320	93	2150	93	1980	94	106
-5	93	3110	93	2540	93	2360	93	2190	93	2020	95	106
0	93	3150	93	2580	93	2400	93	2220	93	2060	95	106
5	93	3200	93	2620	93	2440	93	2260	93	2090	95	106
10	93	3240	93	2660	93	2470	93	2300	93	2130	95	106
15	93	3270	93	2680	93	2500	93	2320	93	2150	94	106
20	92	3270	92	2680	92	2500	92	2320	92	2150	94	105
25	91	3250	91	2660	91	2480	91	2300	91	2130	93	104
30	89	3200	89	2610	89	2420	89	2240	89	2070	91	102
35	88	3250	86	2550	86	2360	86	2180	86	2010	90	99
40	90	3470	87	2670	87	2490	87	2320	88	2150	91	99
45	91	3720	88	2860	89	2670	89	2490	89	2310	91	99
50	92	4080	90	3080	90	2880	90	2680	91	2490	92	99
52	92	4250	91	3170	91	2960	91	2760	91	2570	92	99

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	94	2930	94	2380	94	2210	94	2040	94	1880	94	106
-20	94	2970	94	2420	94	2250	94	2080	94	1920	94	106
-15	94	3020	94	2460	94	2290	94	2120	94	1960	94	106
-10	94	3060	94	2500	94	2320	94	2160	94	1990	94	106
-5	94	3100	94	2540	94	2360	94	2190	94	2030	94	106
0	94	3150	94	2580	94	2400	94	2230	94	2060	94	106
5	94	3190	94	2620	94	2440	94	2270	94	2100	94	106
10	93	3240	93	2660	93	2480	93	2300	93	2130	94	106
15	93	3260	93	2680	93	2500	93	2320	93	2150	94	106
20	92	3260	92	2680	92	2500	92	2320	92	2150	93	105
25	91	3240	91	2660	91	2480	91	2300	91	2130	92	104
30	89	3180	89	2600	89	2410	89	2240	89	2070	91	101
35	86	3110	86	2530	86	2350	86	2170	86	2000	89	99
40	86	3160	84	2460	84	2280	84	2100	84	1940	88	97
45	87	3380	85	2590	85	2410	85	2240	85	2080	88	96
50	89	3640	86	2780	86	2590	87	2410	87	2230	89	96
52	89	3780	87	2860	87	2670	87	2480	87	2300	89	96

Figure 4-23 (Sheet 4)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
2000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	107	4240	105	3260	105	3050	105	2850	105	2660	107	115
-20	107	4300	105	3320	105	3110	105	2900	105	2710	107	115
-15	107	4360	105	3370	105	3160	105	2960	105	2760	107	115
-10	107	4410	105	3420	105	3210	105	3010	105	2810	107	115
-5	107	4460	104	3480	105	3260	105	3060	105	2860	107	115
0	107	4510	104	3530	105	3320	105	3110	105	2900	107	115
5	107	4570	104	3580	105	3370	105	3160	105	2950	107	115
10	107	4620	104	3640	104	3420	105	3210	105	3000	107	115
15	108	4810	105	3760	105	3540	105	3320	105	3110	108	115
20	108	5060	105	3920	106	3690	106	3470	106	3250	108	115
25	108	5410	106	4130	107	3890	107	3660	107	3430	108	115
30	109	5830	107	4380	108	4120	108	3870	108	3640	109	115
35	109	6450	109	4730	109	4460	109	4200	109	3940	109	115
38	110	6940	110	5010	110	4730	110	4450	110	4180	110	115
39	110	7120	110	5110	110	4820	110	4540	110	4280	110	115

WEIGHT = 12200 LBS VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	107	4130	104	3180	104	2980	104	2780	104	2590	107	114
-20	107	4180	104	3230	104	3030	104	2830	104	2640	107	114
-15	107	4240	104	3290	104	3080	104	2880	104	2690	107	114
-10	107	4290	103	3340	104	3130	104	2930	104	2730	107	114
-5	107	4340	103	3390	104	3180	104	2980	104	2780	107	114
0	107	4400	103	3440	104	3230	104	3030	104	2830	107	114
5	106	4450	103	3490	103	3280	104	3070	104	2880	107	114
10	106	4510	103	3550	103	3330	104	3120	104	2920	107	114
15	107	4670	104	3670	104	3450	104	3240	104	3030	107	114
20	107	4920	104	3830	105	3600	105	3380	105	3170	107	114
25	107	5250	105	4030	106	3790	106	3560	106	3340	107	114
30	108	5650	106	4260	107	4010	107	3770	107	3540	108	114
35	108	6240	108	4590	108	4330	108	4070	108	3820	108	114
39	109	6870	109	4960	109	4680	109	4400	109	4130	109	114
40	109	7050	109	5060	109	4770	109	4490	109	4230	109	114

WEIGHT = 12000 LBS VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	106	4000	102	3090	103	2890	103	2700	103	2510	106	114
-20	106	4050	102	3140	103	2940	103	2750	103	2560	106	114
-15	106	4110	102	3190	102	2990	103	2800	103	2610	106	114
-10	105	4170	102	3240	102	3040	103	2840	103	2650	106	114
-5	105	4220	102	3290	102	3090	103	2890	103	2700	106	114
0	105	4280	102	3340	102	3140	103	2940	103	2740	106	114
5	105	4330	102	3390	102	3190	102	2980	103	2790	106	114
10	105	4390	102	3440	102	3230	102	3030	103	2830	106	114
15	106	4540	102	3560	103	3350	103	3140	103	2940	106	114
20	106	4750	103	3720	103	3500	104	3280	104	3070	106	113
25	106	5070	104	3910	104	3680	105	3460	105	3240	106	113
30	107	5450	105	4140	105	3890	105	3660	106	3430	107	113
35	107	6010	107	4440	107	4180	107	3930	107	3690	107	113
40	108	6760	108	4890	108	4610	108	4330	108	4070	108	113
42	108	7140	108	5090	108	4800	108	4530	108	4270	108	113

WEIGHT = 11800 LBS VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	104	3880	101	3000	101	2810	102	2620	102	2440	105	113
-20	104	3940	101	3050	101	2860	102	2670	102	2480	105	113
-15	104	4000	101	3100	101	2900	101	2710	102	2530	105	113
-10	104	4060	101	3150	101	2950	101	2760	102	2570	105	113
-5	104	4110	101	3200	101	3000	101	2800	102	2620	105	113
0	104	4160	101	3250	101	3050	101	2850	102	2660	105	113
5	104	4210	101	3300	101	3090	101	2890	101	2700	104	113
10	104	4270	101	3340	101	3140	101	2940	101	2750	104	113
15	104	4410	101	3460	101	3250	102	3050	102	2850	105	113
20	105	4600	102	3610	102	3390	102	3180	103	2980	105	113
25	105	4900	103	3800	103	3570	103	3350	103	3140	105	112
30	106	5260	104	4010	104	3770	104	3540	104	3320	106	112
35	106	5790	105	4300	105	4050	106	3800	106	3570	106	112
40	107	6490	107	4720	107	4450	107	4180	107	3920	107	112
42	107	6840	107	4910	107	4630	107	4360	107	4090	107	112
43	107	7030	107	5020	107	4730	107	4450	107	4190	107	112

WEIGHT = 11600 LBS VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	103	3780	100	2910	100	2720	100	2540	101	2360	104	112
-20	103	3830	100	2960	100	2770	100	2590	101	2410	104	112
-15	103	3890	100	3010	100	2820	100	2630	100	2450	104	112
-10	103	3940	100	3060	100	2860	100	2680	100	2490	103	112
-5	103	3990	100	3110	100	2910	100	2720	100	2540	103	112
0	103	4050	100	3150	100	2950	100	2760	100	2580	103	112
5	103	4100	99	3200	100	3000	100	2810	100	2620	103	112
10	103	4150	99	3250	100	3050	100	2850	100	2660	103	112
15	103	4290	100	3360	100	3150	100	2950	101	2760	104	112
20	104	4460	101	3500	101	3290	101	3080	101	2880	104	112
25	104	4730	102	3690	102	3460	102	3250	102	3040	104	112
30	105	5080	103	3890	103	3660	103	3440	103	3220	105	111
35	105	5570	104	4170	104	3920	104	3680	105	3450	105	111
40	106	6230	106	4550	106	4290	106	4030	106	3780	106	111
43	106	6730	106	4840	106	4560	106	4290	106	4020	106	111
44	106	6920	106	4940	106	4660	106	4380	106	4120	106	111

WEIGHT = 11400 LBS VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	102	3670	99	2830	99	2640	99	2460	99	2290	102	111
-20	102	3720	98	2870	99	2690	99	2510	99	2330	102	111
-15	102	3780	98	2920	99	2730	99	2550	99	2370	102	111
-10	102	3830	98	2970	99	2780	99	2590	99	2410	102	111
-5	101	3880	98	3010	99	2820	99	2640	99	2460	102	111
0	101	3930	98	3060	98	2870	99	2680	99	2500	102	111
5	101	3980	98	3100	98	2910	99	2720	99	2540	102	111
10	101	4040	98	3150	98	2950	99	2760	99	2580	102	111
15	102	4170	99	3260	99	3060	99	2860	99	2670	103	111
20	102	4340	99	3400	100	3190	100	2990	100	2790	103	111
25	103	4570	100	3570	101	3360	101	3150	101	2940	103	111
30	104	4900	101	3770	102	3540	102	3330	102	3110	104	111
35	104	5370	103	4040	103	3800	103	3560	103	3340	104	110
40	105	5980	104	4390	104	4130	105	3880	105	3640	105	110
44	105	6620	105	4760	105	4490	105	4220	105	3950	105	110
45	106	6790	106	4860	106	4580	106	4300	106	4040	106	110
47	106	7170	106	5060	106	4780	106	4510	106	4240	106	110

Figure 4-23 (Sheet 5)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
2000 FEET

CONDITIONS: ANTI-ICE OFF
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS VENR = 129 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	99	3460	96	2660	96	2480	96	2310	97	2140	100	109
-20	99	3520	96	2700	96	2530	96	2350	97	2180	100	109
-15	99	3560	96	2750	96	2570	96	2390	97	2220	100	109
-10	99	3610	96	2790	96	2610	96	2430	97	2260	100	109
-5	99	3660	96	2830	96	2650	96	2470	96	2300	100	109
0	99	3710	96	2880	96	2690	96	2510	96	2340	100	109
5	99	3760	96	2920	96	2730	96	2550	96	2380	100	109
10	98	3810	95	2960	96	2780	96	2590	96	2420	100	109
15	99	3930	96	3060	96	2870	97	2690	97	2510	100	109
20	100	4090	97	3190	97	2990	97	2800	98	2610	101	109
25	101	4290	98	3360	98	3150	98	2950	98	2750	101	109
30	102	4560	99	3540	99	3330	99	3120	99	2910	102	109
35	102	4980	100	3790	100	3560	101	3340	101	3120	102	109
40	103	5520	102	4090	102	3850	102	3610	102	3380	103	108
45	103	6220	103	4510	103	4240	103	3980	103	3730	103	108
47	104	6540	104	4690	104	4410	104	4140	104	3880	104	108
50	104	7100	104	4980	104	4710	104	4440	104	4180	104	108

WEIGHT = 10500 LBS VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	95	3220	93	2470	93	2300	93	2130	93	1970	98	107
-20	95	3270	93	2510	93	2330	93	2170	93	2010	98	107
-15	95	3310	93	2550	93	2370	93	2210	93	2050	98	107
-10	95	3360	93	2600	93	2410	93	2240	93	2080	98	107
-5	95	3400	93	2640	93	2450	93	2280	93	2120	97	107
0	95	3440	93	2680	93	2490	93	2320	93	2150	97	107
5	95	3490	93	2730	93	2540	93	2360	93	2190	97	107
10	95	3530	93	2770	93	2580	93	2390	93	2230	97	107
15	96	3640	93	2830	93	2650	93	2480	93	2310	98	107
20	96	3790	93	2950	94	2760	94	2580	94	2400	98	107
25	97	3970	94	3090	95	2900	95	2710	95	2530	98	107
30	99	4190	96	3260	96	3060	96	2860	96	2670	99	107
35	99	4520	97	3490	97	3270	97	3060	98	2860	99	106
40	100	4990	98	3750	99	3520	99	3300	99	3080	100	106
45	101	5570	100	4100	100	3850	100	3610	100	3380	101	106
50	101	6290	101	4520	101	4250	101	3980	101	3730	101	106

WEIGHT = 10000 LBS VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	93	3040	93	2450	93	2270	93	2100	93	1930	96	106
-20	93	3080	93	2490	93	2310	93	2140	93	1970	96	106
-15	93	3120	93	2540	93	2350	93	2180	93	2010	96	106
-10	93	3170	93	2580	93	2400	93	2220	93	2050	96	106
-5	93	3220	93	2620	93	2440	93	2260	93	2080	96	106
0	93	3260	93	2670	93	2480	93	2300	93	2120	96	106
5	93	3310	93	2710	93	2520	93	2340	93	2160	96	106
10	93	3360	93	2750	93	2560	93	2380	93	2200	96	106
15	92	3400	92	2750	92	2560	92	2380	92	2200	95	105
20	93	3500	90	2740	90	2540	91	2370	91	2200	95	105
25	94	3670	91	2840	91	2660	92	2490	92	2310	96	105
30	95	3860	92	3000	92	2810	93	2620	93	2440	96	104
35	97	4110	94	3200	94	3000	94	2800	94	2610	97	104
40	97	4510	95	3440	95	3220	95	3010	96	2810	97	104
45	98	5000	97	3720	97	3490	97	3270	97	3050	98	104
50	98	5590	98	4080	98	3830	98	3590	98	3350	98	103

WEIGHT = 9500 LBS VENR = 122 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	93	3010	93	2440	93	2270	93	2090	93	1930	95	106
-20	93	3060	93	2480	93	2310	93	2130	93	1970	95	106
-15	93	3100	93	2530	93	2350	93	2170	93	2000	95	106
-10	93	3150	93	2570	93	2390	93	2210	93	2040	95	106
-5	93	3200	93	2610	93	2430	93	2250	93	2080	95	106
0	93	3240	93	2650	93	2470	93	2290	93	2120	95	106
5	93	3290	93	2700	93	2510	93	2330	93	2160	95	106
10	93	3340	93	2740	93	2550	93	2370	93	2190	95	106
15	92	3340	92	2740	92	2550	92	2370	92	2190	95	105
20	91	3320	91	2720	91	2530	91	2350	91	2170	94	104
25	90	3380	89	2680	89	2490	89	2310	89	2130	93	102
30	91	3550	88	2750	89	2570	89	2400	89	2230	93	102
35	93	3780	90	2920	90	2740	90	2550	91	2380	94	102
40	94	4070	92	3140	92	2940	92	2740	92	2550	94	102
45	95	4490	93	3380	93	3170	93	2960	94	2760	95	101
50	95	4980	95	3680	95	3450	95	3230	95	3010	95	101

WEIGHT = 9000 LBS VENR = 119 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	93	3000	93	2440	93	2260	93	2090	93	1930	94	106
-20	93	3040	93	2480	93	2300	93	2130	93	1970	94	106
-15	93	3090	93	2520	93	2340	93	2170	93	2000	94	106
-10	93	3140	93	2560	93	2380	93	2210	93	2040	94	106
-5	93	3180	93	2600	93	2420	93	2250	93	2080	94	106
0	93	3230	93	2650	93	2460	93	2290	93	2120	94	106
5	93	3280	93	2690	93	2500	93	2330	93	2160	94	106
10	93	3320	93	2730	93	2550	93	2370	93	2190	95	106
15	92	3320	92	2730	92	2540	92	2360	92	2190	94	105
20	91	3300	91	2700	91	2520	91	2340	91	2160	93	104
25	89	3260	89	2660	89	2480	89	2300	89	2120	92	102
30	88	3280	87	2620	87	2430	87	2250	87	2080	90	100
35	89	3460	86	2660	86	2490	87	2320	87	2160	91	99
40	91	3700	88	2850	88	2660	88	2480	89	2310	91	99
45	92	4020	89	3070	90	2870	90	2680	90	2490	92	99
50	92	4430	91	3310	91	3090	91	2890	91	2690	92	99

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-25	93	3000	93	2440	93	2270	93	2100	93	1940	93	106
-20	93	3040	93	2480	93	2310	93	2140	93	1970	93	106
-15	93	3090	93	2520	93	2350	93	2180	93	2010	93	106
-10	93	3130	93	2560	93	2390	93	2210	93	2050	94	106
-5	93	3180	93	2610	93	2430	93	2250	93	2090	94	106
0	93	3220	93	2650	93	2470	93	2290	93	2120	94	106
5	93	3270	93	2690	93	2510	93	2330	93	2160	94	106
10	93	3320	93	2730	93	2550	93	2370	93	2200	94	106
15	92	3310	92	2720	92	2540	92	2360	92	2190	93	105
20	91	3280	91	2700	91	2510	91	2340	91	2160	92	104
25	89	3240	89	2650	89	2470	89	2290	89	2120	91	102
30	87	3190	87	2600	87	2420	87	2240	87	2070	89	100
35	85	3170	85	2540	85	2350	85	2180	85	2010	88	97
40	87	3360	84	2580	84	2410	84	2240	85	2080	88	96
45	88	3610	86	2770	86	2580	86	2410	86	2230	89	96
50	89	3940	87	2980	87	2780	87	2590	88	2400	89	96

Figure 4-23 (Sheet 6)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
3000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4280	105	3300	105	3090	105	2890	105	2700	107	115
-25	107	4340	105	3360	105	3150	105	2950	105	2750	107	115
-20	107	4400	105	3420	105	3210	105	3000	105	2800	107	115
-15	107	4460	104	3470	105	3260	105	3050	105	2850	107	115
-10	107	4520	104	3530	105	3320	105	3110	105	2900	107	115
-5	107	4570	104	3590	105	3370	105	3160	105	2950	107	115
0	107	4640	104	3650	105	3430	105	3220	105	3010	107	115
5	108	4770	105	3740	105	3520	105	3300	105	3090	108	115
10	108	4940	105	3870	105	3640	105	3420	106	3200	108	115
15	108	5170	106	4010	106	3780	106	3550	106	3330	108	115
20	108	5480	106	4210	107	3960	107	3720	107	3490	108	115
25	109	5850	107	4420	107	4170	108	3920	108	3680	109	115
30	109	6310	108	4690	108	4420	108	4160	109	3910	109	115
35	109	7330	110	5150	110	4860	110	4580	110	4310	110	115
36	108	7580	110	5250	110	4960	110	4670	110	4400	110	115

WEIGHT = 12200 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4160	104	3220	104	3020	104	2820	104	2630	107	114
-25	107	4220	103	3280	104	3070	104	2870	104	2680	107	114
-20	107	4280	103	3330	104	3130	104	2920	104	2730	107	114
-15	107	4340	103	3390	104	3180	104	2980	104	2780	107	114
-10	107	4400	103	3440	104	3230	104	3030	104	2830	107	114
-5	106	4460	103	3500	103	3280	104	3080	104	2880	107	114
0	106	4530	103	3560	103	3340	104	3130	104	2930	107	114
5	107	4640	103	3650	104	3430	104	3220	104	3010	107	114
10	107	4800	104	3770	104	3550	104	3330	105	3120	107	114
15	107	5020	105	3920	105	3690	105	3460	105	3250	107	114
20	107	5320	105	4100	105	3860	106	3630	106	3400	107	114
25	108	5670	106	4310	106	4060	106	3820	107	3580	108	114
30	108	6110	107	4560	107	4300	107	4040	108	3800	108	114
35	109	6850	109	5000	109	4720	109	4440	109	4180	109	114
36	109	7020	109	5100	109	4810	109	4530	109	4260	109	114
37	109	7210	109	5200	109	4910	109	4620	109	4350	109	114

WEIGHT = 12000 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	106	4030	102	3130	103	2930	103	2730	103	2550	106	114
-25	106	4100	102	3180	102	2980	103	2790	103	2600	106	114
-20	105	4160	102	3240	102	3030	103	2840	103	2650	106	114
-15	105	4220	102	3290	102	3090	103	2890	103	2700	106	114
-10	105	4280	102	3340	102	3140	103	2940	103	2740	106	114
-5	105	4340	102	3400	102	3190	102	2990	103	2790	106	114
0	105	4400	102	3450	102	3240	102	3040	103	2840	106	114
5	105	4510	102	3550	102	3330	103	3120	103	2920	106	114
10	106	4650	103	3660	103	3440	103	3230	103	3020	106	113
15	106	4860	103	3800	104	3580	104	3360	104	3150	106	113
20	106	5140	104	3980	104	3740	104	3520	105	3300	106	113
25	107	5480	105	4180	105	3940	105	3700	105	3470	107	113
30	107	5890	106	4420	106	4170	106	3920	106	3680	107	113
35	108	6580	108	4830	108	4550	108	4290	108	4030	108	113
37	108	6920	108	5020	108	4740	108	4460	108	4190	108	113
38	108	7100	108	5130	108	4840	108	4550	108	4280	108	113

WEIGHT = 11800 LBS — VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	104	3930	101	3040	101	2840	102	2650	102	2470	105	113
-25	104	3990	101	3090	101	2900	101	2700	102	2520	105	113
-20	104	4050	101	3140	101	2950	101	2750	102	2570	105	113
-15	104	4100	101	3200	101	3000	101	2800	102	2610	105	113
-10	104	4160	101	3250	101	3050	101	2850	102	2660	105	113
-5	104	4220	101	3300	101	3090	101	2900	101	2710	105	113
0	104	4280	101	3350	101	3150	101	2950	101	2760	105	113
5	104	4390	101	3440	101	3230	101	3030	102	2830	105	113
10	105	4520	101	3550	102	3340	102	3130	102	2930	105	113
15	105	4700	102	3690	102	3470	102	3260	103	3050	105	113
20	105	4970	103	3870	103	3640	103	3410	103	3200	105	112
25	106	5290	104	4060	104	3820	104	3590	104	3360	106	112
30	106	5680	105	4290	105	4040	105	3790	105	3560	106	112
35	107	6320	106	4660	106	4400	106	4140	106	3880	107	112
38	107	6810	107	4950	107	4670	107	4390	107	4130	107	112
40	107	7180	107	5150	107	4860	107	4580	107	4310	107	112

WEIGHT = 11600 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	3820	100	2950	100	2760	100	2570	100	2390	103	112
-25	103	3880	100	3000	100	2810	100	2620	100	2440	104	112
-20	103	3930	100	3050	100	2860	100	2670	100	2490	103	112
-15	103	3990	100	3100	100	2910	100	2720	100	2530	103	112
-10	103	4050	100	3150	100	2960	100	2760	100	2580	103	112
-5	103	4100	99	3200	100	3000	100	2810	100	2620	103	112
0	103	4170	99	3260	100	3060	100	2860	100	2670	103	112
5	103	4270	100	3340	100	3140	100	2940	100	2750	104	112
10	103	4390	100	3450	100	3240	101	3040	101	2840	104	112
15	104	4560	101	3580	101	3370	101	3160	101	2950	104	112
20	104	4800	102	3750	102	3530	102	3310	102	3100	104	112
25	105	5100	102	3940	103	3700	103	3480	103	3260	105	111
30	105	5480	103	4160	104	3910	104	3670	104	3440	105	111
35	106	6080	105	4500	105	4240	105	3990	105	3750	106	111
40	106	6880	106	4970	106	4690	106	4410	106	4140	106	111
41	106	7070	106	5080	106	4790	106	4500	106	4230	106	111

WEIGHT = 11400 LBS — VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	102	3710	98	2860	99	2680	99	2490	99	2320	102	111
-25	102	3770	98	2910	99	2720	99	2540	99	2370	102	111
-20	102	3820	98	2960	99	2770	99	2590	99	2410	102	111
-15	101	3880	98	3010	99	2820	99	2630	99	2450	102	111
-10	101	3930	98	3060	98	2870	99	2680	99	2500	102	111
-5	101	3990	98	3110	98	2910	99	2720	99	2540	102	111
0	101	4050	98	3160	98	2960	99	2770	99	2590	102	111
5	102	4150	98	3240	99	3040	99	2850	99	2660	103	111
10	102	4270	99	3350	99	3140	99	2940	100	2750	103	111
15	103	4430	100	3470	100	3260	100	3060	100	2860	103	111
20	103	4640	100	3640	101	3420	101	3200	101	3000	103	111
25	104	4920	101	3820	101	3590	102	3370	102	3150	104	111
30	104	5280	102	4030	102	3790	103	3560	103	3330	104	110
35	105	5840	104	4350	104	4100	104	3850	104	3610	105	110
40	105	6580	105	4790	105	4520	105	4250	105	3990	105	110
41	105	6760	105	4890	105	4610	105	4340	105	4070	105	110
44	106	7340	106	5200	106	4910	106	4630	106	4360	106	110

Figure 4-23 (Sheet 7)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
3000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO

SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	99	3500	96	2690	96	2510	96	2340	97	2170	100	109
-25	99	3560	96	2740	96	2560	96	2390	97	2220	100	109
-20	99	3610	96	2790	96	2610	96	2430	97	2260	100	109
-15	99	3660	96	2830	96	2650	96	2470	96	2300	100	109
-10	99	3710	96	2880	96	2690	96	2510	96	2340	100	109
-5	99	3760	96	2920	96	2740	96	2560	96	2380	100	109
0	99	3820	96	2970	96	2780	96	2600	96	2430	100	109
5	99	3910	96	3050	96	2860	96	2670	97	2490	100	109
10	99	4030	96	3140	97	2950	97	2760	97	2580	101	109
15	100	4170	97	3260	97	3060	97	2870	98	2680	101	109
20	101	4360	98	3410	98	3200	98	3000	98	2810	101	109
25	102	4580	99	3580	99	3370	99	3160	99	2950	102	109
30	102	4900	100	3780	100	3550	100	3330	100	3120	102	109
35	102	5400	101	4060	101	3820	101	3580	102	3360	102	108
40	103	6040	103	4450	103	4190	103	3940	103	3690	103	108
44	104	6690	104	4820	104	4540	104	4270	104	4010	104	108
45	104	6870	104	4920	104	4640	104	4360	104	4090	104	108
48	104	7480	104	5250	104	4960	104	4680	104	4410	104	108

WEIGHT = 10500 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	95	3250	93	2510	93	2320	93	2160	93	2000	98	107
-25	95	3300	93	2550	93	2360	93	2200	93	2040	98	107
-20	95	3350	93	2590	93	2410	93	2240	93	2080	98	107
-15	95	3400	93	2640	93	2450	93	2280	93	2120	97	107
-10	95	3450	93	2680	93	2490	93	2320	93	2160	97	107
-5	95	3490	93	2730	93	2530	93	2360	93	2190	97	107
0	95	3540	93	2770	93	2570	93	2400	93	2230	97	107
5	95	3630	92	2820	93	2640	93	2460	93	2290	98	107
10	96	3730	93	2910	93	2720	93	2550	94	2370	98	107
15	96	3870	94	3010	94	2820	94	2640	94	2460	98	107
20	97	4030	94	3150	95	2950	95	2760	95	2580	98	107
25	98	4220	95	3300	96	3100	96	2900	96	2710	99	107
30	99	4460	96	3480	97	3270	97	3060	97	2860	99	106
35	100	4900	98	3730	98	3510	98	3290	98	3080	100	106
40	100	5440	99	4050	99	3810	100	3580	100	3350	100	106
45	101	6120	101	4460	101	4200	101	3940	101	3690	101	106
48	101	6610	101	4740	101	4460	101	4190	101	3930	101	106

WEIGHT = 10000 LBS — VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3070	93	2490	93	2310	93	2130	93	1970	96	106
-25	93	3120	93	2530	93	2350	93	2170	93	2000	96	106
-20	93	3170	93	2580	93	2390	93	2210	93	2040	96	106
-15	93	3210	93	2620	93	2430	93	2250	93	2080	96	106
-10	93	3260	93	2660	93	2480	93	2290	93	2120	96	106
-5	93	3310	93	2710	93	2520	93	2340	93	2160	96	106
0	93	3360	93	2750	93	2560	93	2370	93	2200	96	106
5	92	3400	92	2770	92	2580	92	2390	92	2210	96	106
10	92	3460	91	2780	91	2580	91	2400	91	2220	95	105
15	93	3580	90	2770	90	2590	91	2420	91	2260	95	105
20	94	3720	91	2890	91	2710	91	2530	92	2360	96	105
25	95	3900	92	3030	92	2840	92	2660	93	2480	96	104
30	96	4100	93	3190	93	2990	93	2800	94	2610	96	104
35	97	4430	94	3430	95	3210	95	3010	95	2810	97	104
40	98	4900	96	3690	96	3460	96	3240	96	3030	98	104
45	98	5460	97	4040	98	3790	98	3560	98	3330	98	103
48	98	5860	98	4280	98	4020	98	3770	98	3530	98	103

WEIGHT = 9500 LBS — VENR = 122 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3050	93	2480	93	2300	93	2130	93	1960	95	106
-25	93	3100	93	2520	93	2340	93	2170	93	2000	95	106
-20	93	3150	93	2560	93	2380	93	2210	93	2040	95	106
-15	93	3190	93	2610	93	2420	93	2250	93	2080	95	106
-10	93	3240	93	2650	93	2460	93	2290	93	2110	95	106
-5	93	3290	93	2690	93	2510	93	2330	93	2150	95	106
0	93	3330	93	2730	93	2550	93	2360	93	2190	95	106
5	92	3360	92	2750	92	2560	92	2380	92	2210	95	106
10	91	3360	91	2760	91	2570	91	2390	91	2210	94	105
15	90	3370	90	2750	90	2560	90	2380	90	2200	94	104
20	90	3430	89	2730	89	2540	89	2350	89	2170	93	102
25	91	3590	88	2780	89	2600	89	2430	89	2260	93	102
30	92	3770	89	2920	90	2730	90	2550	90	2380	93	102
35	94	4030	91	3130	91	2930	91	2740	92	2550	94	102
40	95	4410	93	3370	93	3150	93	2950	93	2750	95	101
45	95	4880	94	3650	94	3420	94	3200	94	2990	95	101
48	96	5210	95	3860	95	3620	95	3390	95	3170	96	101

WEIGHT = 9000 LBS — VENR = 119 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3040	93	2470	93	2300	93	2130	93	1960	94	106
-25	93	3090	93	2520	93	2340	93	2170	93	2000	94	106
-20	93	3130	93	2560	93	2380	93	2210	93	2040	94	106
-15	93	3180	93	2600	93	2420	93	2240	93	2080	94	106
-10	93	3230	93	2640	93	2460	93	2280	93	2110	94	106
-5	93	3270	93	2690	93	2500	93	2320	93	2150	94	106
0	93	3320	93	2730	93	2540	93	2360	93	2190	94	106
5	92	3340	92	2740	92	2560	92	2380	92	2200	94	106
10	91	3340	91	2750	91	2560	91	2380	91	2200	94	105
15	90	3330	90	2730	90	2550	90	2370	90	2190	93	103
20	89	3310	89	2710	89	2520	89	2340	89	2160	92	102
25	88	3320	87	2680	87	2490	87	2310	87	2130	91	100
30	88	3450	86	2660	86	2490	86	2320	86	2160	90	99
35	90	3680	87	2840	87	2660	88	2480	88	2310	91	99
40	92	3950	89	3060	89	2860	89	2670	89	2480	92	99
45	92	4350	90	3290	91	3080	91	2880	91	2680	92	99
48	93	4630	91	3460	91	3240	92	3030	92	2830	93	99

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3040	93	2480	93	2300	93	2130	93	1970	94	106
-25	93	3080	93	2520	93	2340	93	2170	93	2010	94	106
-20	93	3130	93	2560	93	2380	93	2210	93	2040	94	106
-15	93	3170	93	2600	93	2420	93	2250	93	2080	94	106
-10	93	3220	93	2640	93	2460	93	2290	93	2120	94	106
-5	93	3270	93	2690	93	2510	93	2330	93	2160	94	106
0	93	3310	93	2730	93	2540	93	2370	93	2190	94	106
5	92	3330	92	2740	92	2560	92	2380	92	2210	93	105
10	92	3330	92	2740	92	2560	92	2380	92	2210	93	104
15	90	3320	90	2730	90	2540	90	2360	90	2190	92	103
20	89	3290	89	2700	89	2510	89	2330	89	2160	91	102
25	87	3250	87	2660	87	2480	87	2300	87	2120	90	100
30	85	3210	85	2620	85	2430	85	2250	85	2080	88	98
35	86	3350	83	2570	84	2400	84	2240	84	2080	88	97
40	88	3590	85	2760	85	2580	85	2400	86	2230	88	96
45	89	3870	86	2970	87	2770	87	2580	87	2400	89	96
48	89	4110	87	3100	88	2900	88	2700	88	2510	89	96

Figure 4-23 (Sheet 8)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
4000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4390	104	3410	105	3190	105	2990	105	2790	107	115
-25	107	4450	104	3470	105	3250	105	3050	105	2840	107	115
-20	107	4510	104	3530	105	3310	105	3100	105	2900	107	115
-15	107	4570	104	3580	105	3370	105	3160	105	2950	107	115
-10	107	4630	104	3640	104	3420	105	3210	105	3010	107	115
-5	107	4700	104	3700	104	3480	105	3270	105	3060	107	115
0	107	4780	104	3770	104	3550	105	3330	105	3120	107	115
5	108	4980	105	3920	105	3690	105	3460	105	3250	108	115
10	108	5280	106	4100	106	3860	106	3630	106	3410	108	115
15	108	5590	106	4300	107	4050	107	3810	107	3580	108	115
20	109	5930	107	4500	107	4250	107	4000	108	3750	109	115
25	108	6450	108	4730	108	4460	108	4210	108	3950	109	115
30	107	7320	109	5110	109	4830	109	4550	109	4280	109	115
32	107	7790	110	5310	110	5020	110	4730	110	4450	110	115
33	107	8050	110	5410	110	5110	110	4820	110	4540	110	115

WEIGHT = 12200 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4260	103	3320	104	3110	104	2910	104	2720	107	114
-25	107	4330	103	3380	104	3170	104	2970	104	2770	107	114
-20	107	4390	103	3440	104	3230	104	3020	104	2820	107	114
-15	106	4460	103	3500	103	3280	104	3080	104	2880	107	114
-10	106	4520	103	3550	103	3340	104	3130	104	2930	107	114
-5	106	4590	103	3610	103	3390	104	3180	104	2980	107	114
0	106	4670	103	3680	103	3460	104	3250	104	3040	107	114
5	107	4840	104	3820	104	3590	104	3370	104	3160	107	114
10	107	5120	105	4000	105	3770	105	3540	105	3320	107	114
15	107	5430	105	4190	106	3950	106	3710	106	3480	107	114
20	108	5750	106	4390	106	4140	106	3890	107	3650	108	114
25	108	6120	107	4600	107	4340	107	4080	107	3840	108	114
30	108	6750	108	4960	108	4680	108	4410	108	4150	109	114
33	108	7450	109	5250	109	4960	109	4680	109	4400	109	114
34	108	7710	109	5360	109	5060	109	4770	109	4490	109	114

WEIGHT = 12000 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	105	4150	102	3230	102	3020	103	2830	103	2640	106	114
-25	105	4210	102	3280	102	3080	103	2880	103	2690	106	114
-20	105	4280	102	3340	102	3130	103	2930	103	2740	106	114
-15	105	4340	102	3400	102	3190	102	2990	103	2790	106	114
-10	105	4400	102	3450	102	3240	102	3040	103	2840	106	114
-5	105	4460	102	3510	102	3290	102	3090	103	2890	106	114
0	105	4540	102	3570	102	3360	102	3150	103	2950	106	114
5	106	4700	103	3710	103	3490	103	3270	103	3070	106	114
10	106	4960	103	3890	104	3660	104	3440	104	3220	106	113
15	106	5250	104	4070	104	3830	104	3600	105	3370	106	113
20	107	5560	105	4260	105	4010	105	3770	105	3540	107	113
25	107	5900	106	4460	106	4210	106	3960	106	3720	107	113
30	107	6440	107	4790	107	4520	107	4260	107	4000	107	113
34	108	7090	108	5170	108	4890	108	4600	108	4330	108	113
35	108	7270	108	5280	108	4980	108	4700	108	4420	108	113

WEIGHT = 11800 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	104	4030	101	3130	101	2930	101	2740	102	2560	105	113
-25	104	4100	101	3190	101	2990	101	2790	102	2610	105	113
-20	104	4160	101	3240	101	3040	101	2850	102	2660	105	113
-15	104	4220	101	3300	101	3090	101	2900	101	2710	105	113
-10	104	4280	101	3350	101	3150	101	2950	101	2750	105	113
-5	104	4340	101	3400	101	3200	101	3000	101	2800	104	113
0	104	4420	101	3470	101	3260	101	3060	101	2860	105	113
5	104	4570	101	3600	101	3380	102	3180	102	2970	105	113
10	105	4790	102	3770	102	3550	103	3330	103	3120	105	113
15	105	5070	103	3950	103	3710	103	3490	103	3270	105	112
20	106	5360	104	4130	104	3890	104	3660	104	3430	106	112
25	106	5690	104	4330	105	4080	105	3840	105	3600	106	112
30	106	6200	106	4630	106	4370	106	4110	106	3860	106	112
35	107	6970	107	5090	107	4810	107	4530	107	4260	107	112
37	107	7350	107	5310	107	5010	107	4720	107	4440	107	112

WEIGHT = 11600 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	3920	100	3040	100	2850	100	2660	100	2480	103	112
-25	103	3980	100	3100	100	2900	100	2710	100	2530	103	112
-20	103	4040	100	3150	100	2950	100	2760	100	2570	103	112
-15	103	4100	99	3200	100	3000	100	2810	100	2620	103	112
-10	103	4160	99	3250	100	3050	100	2860	100	2670	103	112
-5	102	4220	99	3300	100	3100	100	2910	100	2720	103	112
0	103	4290	99	3370	100	3160	100	2970	100	2770	103	112
5	103	4440	100	3490	100	3280	100	3080	101	2880	104	112
10	104	4650	101	3660	101	3440	101	3230	101	3020	104	112
15	104	4900	102	3830	102	3600	102	3380	102	3170	104	112
20	105	5180	102	4010	103	3770	103	3540	103	3320	105	111
25	105	5490	103	4200	103	3950	104	3710	104	3480	105	111
30	105	5970	104	4480	104	4220	105	3970	105	3730	105	111
35	106	6690	106	4920	106	4640	106	4370	106	4100	106	111
37	106	7040	106	5120	106	4830	106	4550	106	4270	106	111
38	107	7230	107	5220	107	4930	107	4640	107	4360	107	111

WEIGHT = 11400 LBS — VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	101	3810	98	2950	99	2760	99	2580	99	2400	102	111
-25	101	3870	98	3000	99	2810	99	2630	99	2450	102	111
-20	101	3930	98	3060	98	2860	99	2680	99	2490	102	111
-15	101	3990	98	3110	98	2910	99	2720	99	2540	102	111
-10	101	4040	98	3160	98	2960	99	2770	99	2590	102	111
-5	101	4100	98	3210	98	3010	99	2820	99	2630	102	111
0	101	4170	98	3270	98	3070	99	2870	99	2690	102	111
5	102	4320	99	3390	99	3180	99	2980	99	2790	103	111
10	103	4510	100	3550	100	3330	100	3130	100	2930	103	111
15	103	4730	100	3710	101	3490	101	3280	101	3070	103	111
20	104	5000	101	3890	101	3660	102	3430	102	3220	104	111
25	104	5290	102	4070	102	3830	102	3600	102	3370	104	110
30	104	5740	103	4330	103	4070	103	3830	104	3600	104	110
35	105	6410	105	4740	105	4470	105	4210	105	3950	105	110
38	105	6920	105	5040	105	4750	105	4470	105	4200	105	110
40	106	7320	106	5250	106	4950	106	4660	106	4380	106	110
41	106	7520	106	5360	106	5060	106	4770	106	4490	106	110

Figure 4-23 (Sheet 9)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
4000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	99	3600	96	2780	96	2600	96	2420	97	2250	100	109
-25	99	3650	96	2830	96	2640	96	2470	96	2290	100	109
-20	99	3710	96	2870	96	2690	96	2510	96	2340	100	109
-15	99	3760	96	2920	96	2740	96	2560	96	2380	100	109
-10	98	3810	96	2970	96	2780	96	2600	96	2420	100	109
-5	98	3870	95	3020	96	2830	96	2640	96	2470	100	109
0	98	3930	96	3070	96	2880	96	2700	96	2520	100	109
5	99	4070	96	3180	96	2990	97	2800	97	2610	101	109
10	100	4250	97	3330	97	3130	97	2930	98	2740	101	109
15	101	4440	98	3490	98	3280	98	3070	98	2870	101	109
20	102	4650	99	3650	99	3430	99	3220	99	3010	102	109
25	102	4920	99	3820	100	3590	100	3370	100	3160	102	109
30	102	5320	101	4050	101	3810	101	3580	101	3360	102	109
35	103	5900	102	4410	102	4150	102	3900	102	3660	103	108
40	104	6680	104	4870	104	4590	104	4320	104	4050	104	108
41	104	6860	104	4970	104	4680	104	4410	104	4140	104	108
44	104	7430	104	5280	104	4970	104	4690	104	4420	104	108

WEIGHT = 10500 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	95	3340	93	2590	93	2400	93	2230	93	2070	98	107
-25	95	3390	93	2630	93	2440	93	2270	93	2110	98	107
-20	95	3440	93	2680	93	2490	93	2310	93	2150	97	107
-15	95	3490	93	2720	93	2530	93	2360	93	2190	97	107
-10	95	3540	93	2770	93	2570	93	2400	93	2230	97	107
-5	95	3590	93	2810	93	2620	93	2440	93	2270	97	107
0	95	3650	92	2850	92	2660	93	2490	93	2320	98	107
5	96	3770	93	2940	93	2760	93	2580	93	2410	98	107
10	97	3940	94	3070	94	2880	94	2700	94	2520	98	107
15	97	4110	94	3210	95	3020	95	2820	95	2640	98	107
20	98	4290	95	3360	96	3150	96	2950	96	2760	99	107
25	99	4480	96	3510	96	3300	97	3090	97	2890	99	106
30	100	4830	97	3730	97	3500	98	3290	98	3080	100	106
35	100	5330	99	4020	99	3780	99	3550	99	3320	100	106
40	101	5970	100	4420	100	4160	100	3910	101	3660	101	106
44	101	6590	101	4780	101	4500	101	4230	101	3970	101	106
45	101	6760	101	4880	101	4590	101	4320	101	4050	101	106
46	102	6950	102	4980	102	4690	102	4410	102	4140	102	106

WEIGHT = 10000 LBS — VENR = 123 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3160	93	2570	93	2390	93	2210	93	2040	96	106
-25	93	3210	93	2610	93	2430	93	2250	93	2080	96	106
-20	93	3260	93	2660	93	2470	93	2290	93	2120	96	106
-15	93	3310	93	2700	93	2510	93	2330	93	2160	96	106
-10	93	3360	93	2750	93	2560	93	2370	93	2200	96	106
-5	93	3410	93	2790	93	2600	93	2420	93	2240	96	106
0	92	3450	92	2830	92	2640	92	2450	92	2270	96	106
5	92	3510	91	2830	91	2630	91	2450	91	2270	95	105
10	93	3640	90	2830	90	2650	91	2480	91	2310	95	105
15	94	3800	91	2950	91	2770	92	2590	92	2410	96	105
20	95	3960	92	3090	92	2890	92	2710	93	2520	96	104
25	96	4130	93	3230	93	3030	93	2830	93	2640	96	104
30	97	4380	94	3420	94	3210	94	3010	94	2810	97	104
35	97	4810	95	3670	96	3450	96	3240	96	3020	97	104
40	98	5350	97	4010	97	3770	97	3530	97	3310	98	104
45	98	5990	98	4400	98	4140	98	3890	98	3640	98	103
46	99	6150	99	4490	99	4230	99	3970	99	3720	99	103

WEIGHT = 9500 LBS — VENR = 122 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3140	93	2560	93	2380	93	2200	93	2030	95	106
-25	93	3190	93	2600	93	2420	93	2240	93	2070	95	106
-20	93	3240	93	2640	93	2460	93	2280	93	2110	95	106
-15	93	3280	93	2690	93	2500	93	2320	93	2150	95	106
-10	93	3330	93	2730	93	2550	93	2360	93	2190	95	106
-5	93	3380	93	2780	93	2590	93	2410	93	2230	95	106
0	93	3420	93	2810	93	2620	93	2440	93	2260	95	106
5	91	3420	91	2810	91	2620	91	2430	91	2260	95	105
10	90	3420	90	2790	90	2590	90	2410	90	2230	93	103
15	90	3500	88	2760	88	2570	88	2390	88	2210	93	102
20	91	3640	88	2830	88	2650	89	2470	89	2300	93	102
25	92	3800	89	2950	89	2760	90	2580	90	2410	93	102
30	93	4020	90	3130	91	2930	91	2740	91	2550	94	102
35	94	4340	92	3360	92	3150	92	2940	92	2750	94	101
40	95	4800	93	3620	94	3400	94	3180	94	2980	95	101
45	96	5330	95	3970	95	3730	95	3490	95	3260	96	101
46	96	5450	95	4040	95	3800	95	3560	96	3330	96	101

WEIGHT = 9000 LBS — VENR = 119 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3130	93	2550	93	2370	93	2200	93	2030	94	106
-25	93	3170	93	2590	93	2410	93	2240	93	2070	94	106
-20	93	3220	93	2640	93	2460	93	2280	93	2110	94	106
-15	93	3270	93	2680	93	2500	93	2320	93	2150	94	106
-10	93	3320	93	2730	93	2540	93	2360	93	2190	95	106
-5	93	3370	93	2770	93	2580	93	2400	93	2230	95	106
0	93	3410	93	2810	93	2620	93	2440	93	2260	94	106
5	92	3400	92	2800	92	2610	92	2430	92	2250	94	105
10	90	3370	90	2770	90	2580	90	2400	90	2220	93	103
15	88	3350	88	2740	88	2550	88	2370	88	2200	92	102
20	88	3370	87	2720	87	2530	87	2350	87	2170	91	100
25	88	3480	86	2700	86	2510	86	2350	86	2180	90	99
30	89	3670	87	2840	87	2660	87	2480	87	2310	91	99
35	91	3930	88	3050	88	2850	89	2660	89	2480	91	99
40	92	4290	90	3280	90	3080	90	2870	90	2680	92	99
45	93	4740	91	3560	91	3340	92	3120	92	2920	93	99
46	93	4840	91	3630	92	3400	92	3180	92	2970	93	98

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	93	3120	93	2550	93	2380	93	2210	93	2040	94	106
-25	93	3170	93	2600	93	2420	93	2240	93	2080	94	106
-20	93	3220	93	2640	93	2460	93	2280	93	2120	94	106
-15	93	3260	93	2680	93	2500	93	2320	93	2150	94	106
-10	93	3310	93	2730	93	2540	93	2370	93	2190	94	106
-5	93	3360	93	2770	93	2590	93	2410	93	2230	94	106
0	93	3400	93	2800	93	2620	93	2440	93	2270	94	106
5	92	3390	92	2790	92	2610	92	2430	92	2250	93	105
10	90	3360	90	2760	90	2570	90	2390	90	2220	92	103
15	89	3330	89	2730	89	2540	89	2360	89	2190	91	101
20	87	3300	87	2700	87	2520	87	2340	87	2160	90	100
25	86	3280	86	2680	86	2490	86	2310	86	2130	89	98
30	85	3350	84	2620	84	2440	84	2260	84	2080	88	97
35	87	3570	84	2750	85	2570	85	2400	85	2230	88	96
40	89	3840	86	2960	86	2770	86	2580	87	2400	89	96
45	89	4200	87	3180	88	2980	88	2780	88	2590	89	96
46	90	4280	88	3240	88	3030	88	2830	88	2640	90	96

Figure 4-23 (Sheet 10)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
5000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	107	4420	104	3450	105	3230	105	3030	105	2830	107	115
-30	107	4490	104	3510	105	3300	105	3090	105	2890	107	115
-25	107	4560	104	3570	105	3360	105	3150	105	2940	107	115
-20	107	4620	104	3640	104	3420	105	3210	105	3000	107	115
-15	107	4690	104	3700	104	3480	105	3260	105	3060	107	115
-10	108	4800	104	3790	105	3560	105	3350	105	3140	108	115
-5	108	4920	105	3880	105	3650	105	3430	105	3220	108	115
0	108	5090	105	4010	105	3780	105	3550	106	3330	108	115
5	108	5380	106	4190	106	3950	106	3710	106	3480	108	115
10	108	5710	106	4390	107	4140	107	3900	107	3660	108	115
15	108	6190	107	4610	107	4350	108	4090	108	3850	109	115
20	107	6710	108	4820	108	4560	108	4290	108	4040	109	115
25	106	7320	109	5080	109	4800	109	4530	109	4270	109	115
28	106	7980	110	5370	110	5080	110	4790	110	4510	110	115
29	106	8220	110	5480	110	5180	110	4880	110	4600	110	115

WEIGHT = 12200 LBS VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	107	4300	103	3360	104	3150	104	2950	104	2750	107	114
-30	106	4380	103	3420	103	3210	104	3010	104	2810	107	114
-25	106	4450	103	3490	103	3270	104	3070	104	2870	107	114
-20	106	4520	103	3550	103	3330	104	3120	104	2920	107	114
-15	106	4590	103	3610	103	3390	104	3180	104	2980	107	114
-10	106	4690	103	3690	104	3480	104	3260	104	3050	107	114
-5	107	4790	103	3790	104	3560	104	3350	104	3140	107	114
0	107	4950	104	3910	104	3680	104	3460	104	3240	107	114
5	107	5230	105	4080	105	3850	105	3620	105	3390	107	114
10	107	5540	105	4280	106	4040	106	3800	106	3560	107	114
15	108	5880	106	4490	106	4230	106	3980	107	3740	108	114
20	108	6240	107	4690	107	4430	107	4170	107	3920	108	114
25	107	6800	108	4940	108	4660	108	4400	108	4140	108	114
29	106	7680	109	5310	109	5020	109	4740	109	4460	109	114
30	106	7930	109	5420	109	5120	109	4830	109	4550	109	114
31	106	8190	109	5520	109	5220	109	4930	109	4640	109	114

WEIGHT = 12000 LBS VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	105	4190	102	3270	102	3060	103	2860	103	2670	106	114
-30	105	4260	102	3330	102	3120	102	2920	103	2730	106	114
-25	105	4330	102	3390	102	3180	102	2980	103	2780	106	114
-20	105	4390	102	3440	102	3230	102	3030	103	2830	106	114
-15	105	4460	102	3500	102	3290	102	3090	103	2890	106	114
-10	105	4560	102	3590	102	3370	103	3170	103	2960	106	114
-5	105	4660	102	3680	102	3460	103	3250	103	3040	106	114
0	106	4800	103	3790	103	3570	103	3350	103	3140	106	113
5	106	5050	103	3970	104	3740	104	3510	104	3290	106	113
10	106	5350	104	4160	104	3920	105	3680	105	3450	106	113
15	107	5680	105	4360	105	4110	105	3860	105	3630	107	113
20	107	5990	106	4550	106	4290	106	4040	106	3790	107	113
25	107	6340	106	4770	106	4510	107	4250	107	4000	107	113
30	107	7230	108	5230	108	4940	108	4660	108	4390	108	113
31	107	7470	108	5340	108	5040	108	4750	108	4470	108	113
32	107	7720	108	5440	108	5140	108	4850	108	4560	108	113

WEIGHT = 11800 LBS VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	104	4070	101	3170	101	2970	101	2780	102	2590	105	113
-30	104	4140	101	3230	101	3030	101	2830	101	2640	105	113
-25	104	4210	101	3290	101	3090	101	2890	101	2700	105	113
-20	104	4270	101	3350	101	3140	101	2940	101	2750	105	113
-15	104	4340	101	3400	101	3190	101	2990	101	2800	105	113
-10	104	4430	101	3480	101	3270	101	3070	101	2870	105	113
-5	104	4530	101	3570	101	3360	101	3150	102	2950	105	113
0	105	4670	101	3680	102	3470	102	3250	102	3050	105	113
5	105	4890	102	3850	102	3620	103	3410	103	3190	105	113
10	105	5170	103	4030	103	3800	103	3570	103	3350	105	112
15	106	5480	104	4230	104	3980	104	3740	104	3510	106	112
20	106	5780	104	4410	105	4160	105	3910	105	3670	106	112
25	106	6110	105	4620	105	4360	105	4100	105	3860	106	112
30	107	6810	107	5050	107	4770	107	4500	107	4230	107	112
32	107	7150	107	5250	107	4960	107	4680	107	4400	107	112
33	107	7340	107	5360	107	5060	107	4770	107	4490	107	112

WEIGHT = 11600 LBS VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	103	3960	100	3080	100	2880	100	2690	100	2510	103	112
-30	103	4030	99	3140	100	2940	100	2750	100	2560	103	112
-25	103	4090	99	3190	100	2990	100	2800	100	2610	103	112
-20	103	4150	99	3250	100	3050	100	2850	100	2660	103	112
-15	102	4220	99	3300	100	3100	100	2900	100	2710	103	112
-10	103	4310	100	3380	100	3180	100	2980	100	2780	104	112
-5	103	4410	100	3460	100	3260	100	3050	100	2860	104	112
0	103	4540	100	3570	100	3360	101	3150	101	2950	104	112
5	104	4740	101	3740	101	3510	101	3300	102	3090	104	112
10	104	5000	102	3920	102	3690	102	3460	102	3250	104	112
15	105	5290	103	4100	103	3860	103	3630	103	3400	105	111
20	105	5570	103	4280	103	4030	103	3790	104	3560	105	111
25	105	5890	104	4470	104	4210	104	3960	104	3720	105	111
30	106	6540	105	4870	105	4600	106	4330	106	4070	106	111
33	106	7030	106	5170	106	4880	106	4600	106	4320	106	111
35	107	7410	107	5380	107	5080	107	4790	107	4510	107	111

WEIGHT = 11400 LBS VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	101	3850	98	2990	98	2800	99	2610	99	2430	102	111
-30	101	3920	98	3040	98	2850	99	2660	99	2480	102	111
-25	101	3980	98	3100	98	2900	99	2720	99	2530	102	111
-20	101	4040	98	3150	98	2960	99	2760	99	2580	102	111
-15	101	4100	98	3200	98	3010	99	2810	99	2630	102	111
-10	101	4190	98	3280	99	3080	99	2890	99	2700	102	111
-5	101	4280	98	3360	99	3160	99	2960	99	2770	103	111
0	102	4410	99	3470	99	3260	99	3060	100	2860	103	111
5	103	4600	100	3620	100	3410	100	3200	100	2990	103	111
10	103	4830	101	3800	101	3570	101	3350	101	3140	103	111
15	104	5100	101	3970	101	3740	102	3510	102	3300	104	111
20	104	5370	102	4140	102	3900	102	3670	102	3440	104	110
25	104	5670	103	4330	103	4080	103	3830	103	3600	104	110
30	105	6280	104	4700	104	4440	104	4180	104	3920	105	110
35	105	7090	105	5190	105	4900	105	4610	105	4340	105	110
37	106	7490	106	5410	106	5100	106	4810	106	4520	106	110

Figure 4-23 (Sheet 11)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
5000 FEET

CONDITIONS: ANTI-ICE OFF
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	99	3640	96	2810	96	2630	96	2450	96	2280	100	109
-30	99	3690	96	2860	96	2680	96	2500	96	2330	100	109
-25	99	3750	96	2910	96	2730	96	2550	96	2370	100	109
-20	98	3810	95	2960	96	2780	96	2600	96	2420	100	109
-15	98	3860	95	3010	96	2820	96	2640	96	2460	100	109
-10	99	3950	96	3090	96	2890	96	2710	96	2530	100	109
-5	99	4040	96	3160	96	2970	96	2780	97	2590	100	109
0	99	4160	96	3260	97	3060	97	2870	97	2680	101	109
5	100	4340	97	3400	97	3200	98	3000	98	2800	101	109
10	101	4530	98	3560	98	3350	98	3140	99	2940	101	109
15	102	4750	99	3730	99	3510	99	3290	99	3080	102	109
20	102	4990	99	3890	100	3660	100	3430	100	3220	102	109
25	102	5260	100	4060	100	3820	100	3590	101	3360	102	109
30	103	5800	101	4380	102	4130	102	3880	102	3640	103	108
35	103	6500	103	4810	103	4540	103	4270	103	4010	103	108
37	104	6840	104	5010	104	4730	104	4450	104	4180	104	108
40	104	7410	104	5330	104	5030	104	4730	104	4450	104	108
41	104	7620	104	5440	104	5130	104	4830	104	4550	104	108

WEIGHT = 10500 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	95	3380	93	2630	93	2440	93	2260	93	2100	97	107
-30	95	3430	93	2670	93	2480	93	2310	93	2140	97	107
-25	95	3480	93	2720	93	2530	93	2350	93	2190	97	107
-20	95	3540	93	2760	93	2570	93	2390	93	2230	97	107
-15	95	3590	93	2810	93	2620	93	2430	93	2270	97	107
-10	95	3670	92	2850	93	2670	93	2500	93	2330	98	107
-5	95	3740	92	2920	93	2740	93	2560	93	2390	98	107
0	96	3850	93	3010	93	2820	93	2640	94	2460	98	107
5	97	4010	94	3140	94	2950	94	2760	94	2570	98	107
10	98	4190	95	3280	95	3080	95	2890	95	2700	99	107
15	98	4380	95	3440	96	3230	96	3020	96	2830	99	107
20	99	4560	96	3580	96	3370	96	3160	97	2950	99	106
25	99	4790	97	3740	97	3510	97	3300	97	3090	99	106
30	100	5250	98	4000	98	3770	98	3540	99	3310	100	106
35	100	5830	100	4380	100	4120	100	3870	100	3630	100	106
40	101	6580	101	4830	101	4550	101	4280	101	4020	101	106
41	101	6750	101	4930	101	4640	101	4370	101	4100	101	106
44	102	7330	102	5240	102	4940	102	4640	102	4360	102	106

WEIGHT = 10000 LBS — VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3200	93	2610	93	2420	93	2240	93	2070	96	106
-30	93	3250	93	2650	93	2470	93	2290	93	2110	96	106
-25	93	3300	93	2700	93	2510	93	2330	93	2150	96	106
-20	93	3350	93	2750	93	2560	93	2370	93	2190	96	106
-15	93	3400	93	2790	93	2600	93	2410	93	2240	96	106
-10	92	3450	92	2820	92	2630	92	2440	92	2260	96	106
-5	92	3510	92	2850	92	2650	92	2470	92	2280	96	106
0	92	3570	91	2860	91	2660	91	2480	91	2290	95	105
5	93	3710	90	2890	90	2710	91	2530	91	2360	95	105
10	94	3870	91	3020	91	2830	92	2650	92	2470	96	104
15	95	4040	92	3150	92	2960	92	2770	93	2590	96	104
20	96	4200	93	3290	93	3080	93	2890	93	2700	96	104
25	96	4380	93	3430	94	3220	94	3010	94	2820	97	104
30	97	4750	95	3670	95	3450	95	3230	95	3020	97	104
35	98	5240	96	3970	96	3740	97	3510	97	3280	98	104
40	98	5860	98	4360	98	4110	98	3860	98	3610	98	103
44	99	6460	99	4720	99	4450	99	4180	99	3920	99	103

WEIGHT = 9500 LBS — VENR = 121 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3180	93	2600	93	2410	93	2240	93	2070	95	106
-30	93	3230	93	2640	93	2460	93	2280	93	2110	95	106
-25	93	3280	93	2690	93	2500	93	2320	93	2150	95	106
-20	93	3330	93	2730	93	2540	93	2360	93	2190	95	106
-15	93	3380	93	2780	93	2590	93	2410	93	2230	95	106
-10	92	3410	92	2800	92	2610	92	2430	92	2250	95	106
-5	92	3440	92	2830	92	2640	92	2450	92	2280	95	106
0	91	3460	91	2840	91	2650	91	2460	91	2280	94	105
5	90	3470	90	2820	90	2630	90	2440	90	2260	93	103
10	90	3560	88	2800	88	2610	88	2420	88	2250	93	102
15	91	3710	88	2890	89	2710	89	2530	89	2360	93	102
20	92	3860	89	3010	89	2820	90	2630	90	2460	93	102
25	93	4020	90	3130	90	2940	90	2750	91	2560	94	102
30	94	4290	91	3350	92	3140	92	2940	92	2750	94	102
35	95	4710	93	3600	93	3390	93	3170	93	2960	95	101
40	95	5230	94	3940	94	3700	95	3470	95	3250	95	101
44	96	5710	95	4250	96	3990	96	3740	96	3500	96	101

WEIGHT = 9000 LBS — VENR = 119 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3170	93	2590	93	2410	93	2240	93	2070	95	106
-30	93	3220	93	2630	93	2450	93	2280	93	2110	95	106
-25	93	3270	93	2680	93	2490	93	2320	93	2150	95	106
-20	93	3320	93	2720	93	2540	93	2360	93	2190	95	106
-15	93	3360	93	2770	93	2580	93	2400	93	2230	95	106
-10	92	3390	92	2790	92	2610	92	2430	92	2250	94	106
-5	92	3420	92	2820	92	2630	92	2450	92	2270	94	105
0	91	3430	91	2830	91	2640	91	2450	91	2280	93	105
5	90	3410	90	2810	90	2620	90	2430	90	2250	92	103
10	88	3390	88	2780	88	2590	88	2400	88	2230	91	102
15	88	3430	87	2760	87	2570	87	2380	87	2200	90	100
20	88	3540	85	2740	86	2560	86	2390	86	2230	90	99
25	89	3670	86	2860	86	2670	87	2490	87	2320	91	99
30	90	3920	88	3050	88	2850	88	2670	88	2490	91	99
35	92	4220	89	3270	89	3070	90	2870	90	2670	92	99
40	92	4660	91	3540	91	3320	91	3110	91	2900	92	99
44	93	5060	92	3810	92	3570	92	3350	92	3130	93	98

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3160	93	2590	93	2410	93	2240	93	2070	94	106
-30	93	3210	93	2640	93	2460	93	2280	93	2110	94	106
-25	93	3260	93	2680	93	2500	93	2320	93	2150	94	106
-20	93	3310	93	2720	93	2540	93	2360	93	2190	94	106
-15	93	3360	93	2770	93	2580	93	2410	93	2230	94	106
-10	93	3390	93	2790	93	2610	93	2430	93	2250	93	106
-5	92	3410	92	2820	92	2630	92	2450	92	2270	93	105
0	91	3420	91	2820	91	2630	91	2450	91	2280	93	104
5	90	3400	90	2800	90	2610	90	2430	90	2250	92	103
10	88	3370	88	2770	88	2580	88	2400	88	2220	91	101
15	87	3340	87	2740	87	2550	87	2370	87	2190	90	100
20	86	3320	86	2720	86	2530	86	2350	86	2170	89	98
25	85	3370	84	2700	84	2510	84	2330	84	2150	88	97
30	86	3560	84	2760	84	2580	84	2410	84	2240	88	97
35	88	3820	85	2950	86	2760	86	2580	86	2400	89	96
40	89	4140	87	3180	87	2970	87	2780	87	2590	89	96
44	90	4480	88	3390	88	3180	88	2970	89	2770	90	96

Figure 4-23 (Sheet 12)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
6000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	10 KTS DIST FT	20 KTS V1 KIAS	20 KTS DIST FT	30 KTS V1 KIAS	30 KTS DIST FT	VR KIAS	V2 KIAS
-35	107	4530	104	3560	104	3340	105	3130	105	2930	107	115
-30	107	4610	104	3620	104	3410	105	3190	105	2990	107	115
-25	107	4680	104	3690	104	3470	105	3250	105	3050	107	115
-20	107	4760	104	3750	104	3530	105	3320	105	3110	107	115
-15	107	4850	104	3830	104	3610	105	3390	105	3180	107	115
-10	108	4970	104	3930	105	3710	105	3480	105	3270	108	115
-5	108	5160	105	4070	105	3840	105	3610	105	3390	108	115
0	108	5480	106	4280	106	4030	106	3790	106	3560	108	115
5	108	5940	107	4490	107	4230	107	3990	107	3750	108	115
10	107	6490	107	4710	107	4450	108	4190	108	3940	109	115
15	106	7060	108	4960	108	4690	108	4420	108	4170	109	115
20	105	7680	109	5240	109	4950	109	4680	109	4400	109	115
24	105	8320	110	5510	110	5210	110	4920	110	4640	110	115
25	104	8560	110	5610	110	5310	110	5010	110	4720	110	115

WEIGHT = 12200 LBS VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	10 KTS DIST FT	20 KTS V1 KIAS	20 KTS DIST FT	30 KTS V1 KIAS	30 KTS DIST FT	VR KIAS	V2 KIAS
-35	106	4430	103	3470	103	3260	104	3050	104	2850	107	114
-30	106	4500	103	3530	103	3320	104	3110	104	2910	107	114
-25	106	4580	103	3600	103	3380	104	3170	104	2970	107	114
-20	106	4640	103	3660	103	3440	103	3230	104	3030	107	114
-15	106	4730	103	3740	103	3520	104	3300	104	3090	107	114
-10	106	4850	103	3840	104	3610	104	3390	104	3180	107	114
-5	107	5020	104	3970	104	3740	104	3520	104	3300	107	114
0	107	5320	105	4170	105	3930	105	3690	105	3470	107	114
5	108	5650	105	4370	106	4130	106	3880	106	3650	108	114
10	108	6040	106	4590	106	4330	107	4080	107	3830	108	114
15	107	6590	107	4820	107	4560	107	4300	107	4040	108	114
20	106	7200	108	5090	108	4810	108	4540	108	4270	108	114
25	105	8020	109	5450	109	5150	109	4860	109	4580	109	114
27	105	8510	109	5650	109	5340	109	5040	109	4750	109	114

WEIGHT = 12000 LBS VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	10 KTS DIST FT	20 KTS V1 KIAS	20 KTS DIST FT	30 KTS V1 KIAS	30 KTS DIST FT	VR KIAS	V2 KIAS
-35	105	4310	102	3370	102	3160	102	2960	103	2770	106	114
-30	105	4380	102	3430	102	3220	102	3020	103	2820	106	114
-25	105	4450	102	3490	102	3280	102	3080	103	2880	106	114
-20	105	4520	102	3560	102	3340	102	3140	102	2930	106	114
-15	105	4600	102	3630	102	3410	102	3200	103	3000	106	114
-10	105	4720	102	3730	102	3510	103	3290	103	3090	106	114
-5	106	4880	103	3860	103	3630	103	3410	103	3200	106	113
0	106	5150	103	4050	104	3820	104	3590	104	3370	106	113
5	107	5460	104	4250	104	4000	105	3770	105	3530	107	113
10	107	5800	105	4450	105	4200	105	3950	105	3710	107	113
15	107	6150	106	4670	106	4410	106	4150	106	3910	107	113
20	107	6600	106	4920	107	4650	107	4380	107	4120	107	113
25	106	7390	107	5260	108	4970	108	4690	108	4420	108	113
27	106	7840	108	5450	108	5160	108	4870	108	4580	108	113
28	106	8090	108	5560	108	5250	108	4960	108	4670	108	113

WEIGHT = 11800 LBS VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	10 KTS DIST FT	20 KTS V1 KIAS	20 KTS DIST FT	30 KTS V1 KIAS	30 KTS DIST FT	VR KIAS	V2 KIAS
-35	104	4190	101	3270	101	3070	101	2870	101	2680	104	113
-30	104	4260	101	3330	101	3130	101	2930	101	2740	105	113
-25	104	4330	101	3390	101	3190	101	2990	101	2790	105	113
-20	104	4390	101	3450	101	3240	101	3040	101	2850	104	113
-15	104	4480	101	3520	101	3310	101	3110	101	2910	105	113
-10	104	4590	101	3620	101	3400	101	3200	102	2990	105	113
-5	104	4740	101	3750	102	3520	102	3310	102	3100	105	113
0	105	4980	102	3930	102	3700	103	3480	103	3260	105	113
5	105	5280	103	4120	103	3880	103	3650	104	3420	105	112
10	106	5690	104	4320	104	4070	104	3830	104	3600	106	112
15	106	5930	105	4530	105	4270	105	4020	105	3770	106	112
20	106	6280	105	4760	105	4490	106	4230	106	3980	106	112
25	107	6780	106	5080	106	4800	106	4520	107	4260	107	112
28	107	7350	107	5360	107	5070	107	4780	107	4500	107	112
30	106	7860	107	5570	107	5260	107	4960	107	4680	107	112

WEIGHT = 11600 LBS VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	10 KTS DIST FT	20 KTS V1 KIAS	20 KTS DIST FT	30 KTS V1 KIAS	30 KTS DIST FT	VR KIAS	V2 KIAS
-35	103	4070	99	3180	100	2980	100	2790	100	2600	103	112
-30	102	4140	99	3240	100	3040	100	2840	100	2650	103	112
-25	102	4210	99	3290	100	3090	100	2900	100	2710	103	112
-20	102	4270	99	3350	100	3150	100	2950	100	2760	103	112
-15	102	4350	99	3420	100	3210	100	3010	100	2820	103	112
-10	103	4460	100	3510	100	3300	100	3100	100	2900	104	112
-5	103	4610	100	3630	100	3420	101	3210	101	3010	104	112
0	104	4820	101	3810	101	3590	101	3370	102	3160	104	112
5	104	5100	102	4000	102	3770	102	3540	102	3320	104	112
10	105	5400	103	4190	103	3950	103	3710	103	3480	105	111
15	105	5720	103	4390	103	4140	104	3890	104	3650	105	111
20	105	6050	104	4600	104	4340	104	4090	104	3840	105	111
25	106	6510	105	4900	105	4630	105	4360	105	4100	106	111
30	106	7280	106	5370	106	5070	106	4780	106	4500	106	111
31	106	7470	106	5470	106	5170	106	4880	106	4590	106	111

WEIGHT = 11400 LBS VENR = 132 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	10 KTS DIST FT	20 KTS V1 KIAS	20 KTS DIST FT	30 KTS V1 KIAS	30 KTS DIST FT	VR KIAS	V2 KIAS
-35	101	3960	98	3080	98	2890	99	2700	99	2520	102	111
-30	101	4030	98	3140	98	2950	99	2760	99	2570	102	111
-25	101	4090	98	3200	98	3000	99	2810	99	2620	102	111
-20	101	4150	98	3250	98	3050	98	2860	99	2670	102	111
-15	101	4230	98	3320	98	3120	99	2920	99	2730	102	111
-10	101	4330	98	3410	99	3200	99	3000	99	2810	103	111
-5	102	4480	99	3530	99	3310	99	3110	99	2910	103	111
0	103	4680	100	3700	100	3480	100	3270	100	3060	103	111
5	103	4920	101	3880	101	3650	101	3430	101	3220	103	111
10	104	5210	101	4060	101	3820	102	3590	102	3370	104	111
15	104	5510	102	4250	102	4010	102	3770	103	3530	104	110
20	104	5830	103	4440	103	4190	103	3940	103	3710	104	110
25	105	6260	104	4730	104	4470	104	4210	104	3960	105	110
30	105	6980	105	5180	105	4890	105	4610	105	4330	105	110
31	105	7150	105	5270	105	4980	105	4700	105	4420	105	110
34	106	7710	106	5590	106	5280	106	4980	106	4690	106	110

Figure 4-23 (Sheet 13)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
6000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	98	3740	95	2900	96	2720	96	2540	96	2360	100	109
-30	98	3800	95	2960	96	2770	96	2590	96	2410	100	109
-25	98	3860	95	3010	96	2820	96	2640	96	2460	100	109
-20	98	3920	95	3060	96	2870	96	2680	96	2510	100	109
-15	98	3990	95	3120	96	2930	96	2740	96	2560	100	109
-10	99	4090	96	3200	96	3010	96	2820	96	2630	100	109
-5	99	4220	96	3310	96	3110	97	2920	97	2730	101	109
0	100	4420	97	3470	97	3260	98	3060	98	2870	101	109
5	101	4620	98	3640	98	3420	98	3210	99	3010	101	109
10	102	4850	99	3810	99	3590	99	3370	99	3160	102	109
15	102	5120	100	3990	100	3750	100	3520	100	3310	102	109
20	102	5400	100	4160	100	3920	101	3690	101	3460	102	109
25	103	5790	101	4410	101	4160	101	3910	102	3670	103	108
30	103	6410	102	4800	103	4530	103	4270	103	4010	103	108
34	104	7040	104	5180	104	4890	104	4610	104	4330	104	108
35	104	7220	104	5280	104	4990	104	4700	104	4420	104	108
38	104	7830	104	5610	104	5300	104	4990	104	4700	104	108

WEIGHT = 10500 LBS VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	95	3470	93	2710	93	2520	93	2340	93	2170	97	107
-30	95	3530	93	2760	93	2570	93	2390	93	2220	97	107
-25	95	3580	93	2810	93	2610	93	2430	93	2260	97	107
-20	95	3640	93	2860	93	2660	93	2480	93	2310	97	107
-15	95	3700	92	2900	92	2710	93	2530	93	2360	98	107
-10	95	3790	92	2960	93	2780	93	2600	93	2420	98	107
-5	96	3910	93	3060	93	2870	93	2690	94	2510	98	107
0	97	4090	94	3200	94	3010	94	2820	95	2630	98	107
5	98	4280	95	3350	95	3150	95	2950	95	2760	99	107
10	98	4470	95	3510	96	3300	96	3090	96	2900	99	107
15	99	4660	96	3670	96	3450	97	3240	97	3030	99	106
20	99	4910	97	3830	97	3610	97	3390	98	3170	99	106
25	100	5250	98	4040	98	3800	98	3570	98	3350	100	106
30	100	5770	99	4370	99	4120	99	3870	100	3640	100	106
35	101	6440	101	4790	101	4520	101	4250	101	3990	101	106
38	101	6930	101	5080	101	4790	101	4510	101	4240	101	106
40	102	7310	102	5290	102	4990	102	4700	102	4410	102	106
42	102	7740	102	5510	102	5200	102	4900	102	4600	102	106

WEIGHT = 10000 LBS VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3300	93	2690	93	2510	93	2320	93	2150	96	107
-30	93	3350	93	2740	93	2550	93	2370	93	2190	96	106
-25	93	3400	93	2790	93	2600	93	2410	93	2230	96	107
-20	93	3450	93	2840	93	2640	93	2460	93	2280	96	107
-15	92	3510	92	2880	92	2680	92	2490	92	2310	96	106
-10	92	3560	92	2900	92	2700	92	2510	92	2330	96	106
-5	92	3630	91	2910	91	2710	91	2520	91	2340	95	105
0	93	3780	90	2950	91	2760	91	2590	91	2410	95	105
5	94	3950	91	3080	91	2890	92	2710	92	2530	96	104
10	95	4120	92	3220	92	3030	93	2830	93	2650	96	104
15	96	4300	93	3370	93	3160	93	2960	93	2770	96	104
20	96	4480	94	3520	94	3300	94	3100	94	2900	97	104
25	97	4750	95	3700	95	3480	95	3270	95	3060	97	104
30	98	5200	96	3970	96	3740	96	3510	96	3290	98	104
35	98	5760	97	4340	97	4080	97	3840	98	3600	98	103
40	99	6460	99	4770	99	4490	99	4230	99	3960	99	103
42	99	6800	99	4970	99	4680	99	4400	99	4130	99	103

WEIGHT = 9500 LBS VENR = 120 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3280	93	2680	93	2500	93	2320	93	2140	95	106
-30	93	3330	93	2730	93	2540	93	2360	93	2180	95	106
-25	93	3380	93	2770	93	2580	93	2400	93	2230	95	106
-20	93	3430	93	2820	93	2630	93	2450	93	2270	95	106
-15	93	3470	93	2860	93	2670	93	2480	93	2300	95	106
-10	92	3500	92	2880	92	2690	92	2500	92	2320	95	106
-5	91	3510	91	2890	91	2690	91	2510	91	2320	94	105
0	90	3530	89	2860	89	2670	89	2480	89	2300	93	103
5	90	3630	88	2840	88	2650	88	2470	88	2300	93	102
10	91	3790	88	2950	89	2770	89	2590	89	2410	93	102
15	92	3950	89	3080	90	2890	90	2700	90	2520	93	102
20	93	4110	90	3210	90	3010	90	2820	91	2630	94	102
25	94	4320	91	3380	91	3170	91	2970	92	2780	94	102
30	95	4680	92	3620	93	3400	93	3190	93	2980	95	101
35	95	5150	94	3920	94	3680	94	3460	94	3240	95	101
40	96	5720	95	4290	95	4040	95	3790	96	3550	96	101
42	96	6000	96	4460	96	4200	96	3940	96	3690	96	101

WEIGHT = 9000 LBS VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3260	93	2670	93	2490	93	2310	93	2140	95	106
-30	93	3310	93	2720	93	2530	93	2360	93	2180	95	106
-25	93	3360	93	2770	93	2580	93	2400	93	2220	95	106
-20	93	3410	93	2810	93	2620	93	2440	93	2270	95	106
-15	93	3450	93	2850	93	2660	93	2480	93	2300	95	106
-10	92	3480	92	2870	92	2680	92	2500	92	2320	94	106
-5	91	3480	91	2870	91	2680	91	2500	91	2320	94	105
0	90	3460	90	2840	90	2650	90	2470	90	2290	92	103
5	88	3430	88	2820	88	2620	88	2440	88	2260	91	101
10	88	3490	86	2790	86	2600	86	2410	86	2230	90	100
15	88	3610	86	2810	86	2630	86	2460	86	2290	90	99
20	89	3760	86	2920	87	2740	87	2560	87	2390	91	99
25	90	3950	87	3070	88	2880	88	2690	88	2510	91	99
30	92	4210	89	3280	89	3080	89	2880	89	2690	92	99
35	92	4600	90	3520	90	3310	90	3100	91	2890	92	99
40	93	5080	92	3850	92	3620	92	3390	92	3170	93	98
42	93	5300	92	4000	92	3750	92	3520	93	3290	93	98

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3260	93	2680	93	2490	93	2320	93	2150	94	106
-30	93	3300	93	2720	93	2540	93	2360	93	2190	94	106
-25	93	3350	93	2770	93	2580	93	2400	93	2230	94	106
-20	93	3400	93	2810	93	2630	93	2450	93	2270	94	106
-15	93	3450	93	2850	93	2660	93	2480	93	2300	94	106
-10	92	3470	92	2870	92	2680	92	2500	92	2320	93	105
-5	91	3470	91	2870	91	2680	91	2490	91	2320	93	104
0	90	3440	90	2830	90	2640	90	2460	90	2280	91	103
5	88	3410	88	2800	88	2610	88	2430	88	2250	90	101
10	87	3380	87	2770	87	2580	87	2400	87	2220	89	100
15	85	3370	85	2750	85	2560	85	2380	85	2200	88	98
20	85	3430	84	2730	84	2540	84	2360	84	2180	88	97
25	86	3590	83	2780	84	2600	84	2430	84	2260	88	97
30	88	3830	85	2970	85	2780	85	2590	86	2410	88	96
35	89	4090	86	3180	87	2980	87	2780	87	2590	89	96
40	90	4500	88	3430	88	3220	88	3010	88	2810	90	96
42	90	4680	88	3560	88	3340	89	3130	89	2920	90	96

Figure 4-23 (Sheet 14)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
7000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS					VENR = 139 KIAS											WEIGHT = 12200 LBS					VENR = 137 KIAS									
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	DIST FT	ZERO WIND V1 KIAS	DIST FT	HEADWINDS 10 KTS V1 KIAS	DIST FT	20 KTS V1 KIAS	DIST FT	30 KTS V1 KIAS	DIST FT	VR KIAS	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 KIAS	DIST FT	ZERO WIND V1 KIAS	DIST FT	HEADWINDS 10 KTS V1 KIAS	DIST FT	20 KTS V1 KIAS	DIST FT	30 KTS V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	107	4660	104	3670	104	3450	105	3240	105	3030	107	115	-35	106	4550	103	3580	103	3360	103	3160	104	2950	107	114
-30	107	4750	104	3750	104	3520	105	3310	105	3100	107	115	-30	106	4630	103	3650	103	3440	103	3220	104	3020	107	114
-25	107	4840	104	3830	104	3600	105	3380	105	3170	107	115	-25	106	4730	103	3730	103	3510	104	3300	104	3090	107	114
-20	107	4930	104	3910	104	3680	105	3460	105	3240	108	115	-20	106	4820	103	3810	103	3590	104	3370	104	3160	107	114
-15	108	5080	105	4030	105	3800	105	3570	105	3350	108	115	-15	107	4960	104	3930	104	3700	104	3480	104	3260	107	114
-10	108	5280	105	4170	105	3930	105	3700	106	3470	108	115	-10	107	5130	104	4070	104	3830	104	3600	105	3380	107	114
-5	107	5670	106	4360	106	4120	106	3870	106	3640	108	115	-5	107	5420	105	4250	105	4010	105	3770	105	3540	107	114
0	107	6190	107	4590	107	4330	107	4080	107	3830	108	115	0	107	5790	106	4470	106	4220	106	3970	106	3730	108	114
5	106	6760	107	4820	108	4550	108	4290	108	4040	109	115	5	107	6330	106	4690	106	4430	107	4170	107	3930	108	114
10	105	7380	108	5100	108	4820	108	4550	109	4280	109	115	10	106	6920	107	4950	107	4680	107	4420	107	4160	108	114
15	104	8060	109	5400	109	5100	109	4820	109	4540	109	115	15	105	7550	108	5240	108	4950	108	4670	108	4400	108	114
19	103	8660	110	5650	110	5340	110	5050	110	4760	110	115	20	104	8270	109	5550	109	5250	109	4950	109	4670	109	114
20	103	8810	110	5710	110	5410	110	5110	110	4820	110	115	21	104	8430	109	5610	109	5310	109	5010	109	4730	109	114
21	103	8980	110	5780	110	5470	110	5170	110	4880	110	115	23	104	8900	109	5800	109	5490	109	5180	109	4890	109	114

WEIGHT = 12000 LBS					VENR = 136 KIAS											WEIGHT = 11800 LBS					VENR = 135 KIAS									
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	DIST FT	ZERO WIND V1 KIAS	DIST FT	HEADWINDS 10 KTS V1 KIAS	DIST FT	20 KTS V1 KIAS	DIST FT	30 KTS V1 KIAS	DIST FT	VR KIAS	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 KIAS	DIST FT	ZERO WIND V1 KIAS	DIST FT	HEADWINDS 10 KTS V1 KIAS	DIST FT	20 KTS V1 KIAS	DIST FT	30 KTS V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	105	4430	102	3480	102	3270	102	3060	102	2860	106	114	-35	104	4310	101	3380	101	3170	101	2970	101	2780	104	113
-30	105	4510	102	3550	102	3340	102	3130	102	2930	106	114	-30	104	4390	101	3450	101	3240	101	3040	101	2840	105	113
-25	105	4600	102	3620	102	3410	102	3200	103	3000	106	114	-25	104	4470	101	3520	101	3310	101	3100	101	2910	105	113
-20	105	4690	102	3700	102	3480	102	3270	103	3070	106	114	-20	104	4560	101	3590	101	3380	101	3170	101	2970	105	113
-15	105	4820	102	3820	103	3590	103	3380	103	3170	106	114	-15	104	4690	101	3710	101	3490	101	3280	102	3070	105	113
-10	106	4980	103	3950	103	3720	103	3500	103	3280	106	113	-10	105	4840	102	3830	102	3610	102	3390	102	3180	105	113
-5	106	5240	104	4130	104	3900	104	3670	104	3440	106	113	-5	105	5070	102	4010	102	3780	103	3550	103	3330	105	113
0	107	5570	104	4340	104	4090	105	3850	105	3620	107	113	0	106	5380	103	4210	103	3970	103	3730	104	3500	106	112
5	107	5920	105	4550	105	4300	105	4050	106	3800	107	113	5	106	5710	104	4420	104	4170	104	3920	104	3680	106	112
10	107	6380	106	4790	106	4530	106	4270	106	4020	107	113	10	106	6070	105	4640	105	4380	105	4120	105	3880	106	112
15	106	6970	107	5060	107	4780	107	4510	107	4250	107	113	15	106	6440	105	4890	105	4620	106	4360	106	4100	106	112
20	105	7660	107	5360	108	5060	108	4780	108	4500	108	113	20	106	7010	106	5170	106	4890	106	4610	106	4340	107	112
23	105	8230	108	5600	108	5300	108	5000	108	4720	108	113	24	105	7780	107	5500	107	5200	107	4910	107	4620	107	112
24	104	8460	108	5700	108	5390	108	5090	108	4800	108	113	25	105	8010	107	5600	107	5290	107	4990	107	4710	107	112
													26	105	8260	107	5690	107	5390	107	5080	107	4790	107	112

WEIGHT = 11600 LBS					VENR = 134 KIAS											WEIGHT = 11400 LBS					VENR = 132 KIAS									
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	DIST FT	ZERO WIND V1 KIAS	DIST FT	HEADWINDS 10 KTS V1 KIAS	DIST FT	20 KTS V1 KIAS	DIST FT	30 KTS V1 KIAS	DIST FT	VR KIAS	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 KIAS	DIST FT	ZERO WIND V1 KIAS	DIST FT	HEADWINDS 10 KTS V1 KIAS	DIST FT	20 KTS V1 KIAS	DIST FT	30 KTS V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	102	4190	99	3280	100	3080	100	2880	100	2690	103	112	-35	101	4070	98	3180	98	2990	98	2790	99	2610	102	111
-30	102	4270	99	3350	100	3140	100	2940	100	2750	103	112	-30	101	4150	98	3250	98	3050	99	2850	99	2670	102	111
-25	102	4350	99	3420	100	3210	100	3010	100	2820	104	112	-25	101	4220	98	3320	98	3110	99	2920	99	2730	102	111
-20	102	4430	99	3490	100	3280	100	3080	100	2880	104	112	-20	101	4310	98	3390	98	3180	99	2980	99	2790	102	111
-15	103	4560	100	3600	100	3380	100	3180	100	2970	104	112	-15	101	4430	99	3490	99	3280	99	3080	99	2880	103	111
-10	103	4710	100	3720	100	3500	101	3290	101	3080	104	112	-10	102	4570	99	3610	99	3390	99	3190	100	2980	103	111
-5	104	4910	101	3890	101	3660	101	3440	102	3230	104	112	-5	103	4770	100	3770	100	3550	100	3340	100	3130	103	111
0	105	5200	102	4090	102	3850	102	3620	102	3400	105	112	0	103	5020	101	3960	101	3730	101	3510	101	3290	103	111
5	105	5510	103	4280	103	4040	103	3800	103	3570	105	111	5	104	5320	101	4150	102	3910	102	3680	102	3450	104	111
10	105	5850	103	4490	104	4240	104	3990	104	3750	105	111	10	104	5640	102	4350	102	4100	102	3860	103	3630	104	110
15	105	6210	104	4730	104	4460	104	4210	105	3960	105	111	15	104	5980	103	4570	103	4310	103	4060	103	3820	104	110
20	106	6590	105	4990	105	4720	105	4450	105	4190	106	111	20	105	6340	104	4820	104	4550	104	4290	104	4040	105	110
25	106	7240	106	5400	106	5100	106	4810	106	4530	106	111	25	105	6940	105	5200	105	4920	105	4640	105	4360	105	110
26	106	7470	106	5490	106	5190	106	4900	106	4620	106	111	27	105	7250	105	5390	105	5090	105	4800	105	4520	105	110
27	106	7710	106	5590	106	5280	106	4990	106	4700	106	111	30	106	7770	106	5690	106	5370	106	5070	106	4780	106	110
													31	106	7970	106	5790	106	5480	106	5170	106	4870	106	110

Figure 4-23 (Sheet 15)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
7000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	98	3840	95	2990	96	2810	96	2620	96	2450	100	109
-30	98	3910	95	3050	96	2860	96	2680	96	2500	100	109
-25	98	3990	95	3120	96	2930	96	2740	96	2560	100	109
-20	98	4060	96	3180	96	2990	96	2800	96	2620	100	109
-15	99	4180	96	3280	96	3080	96	2890	97	2700	100	109
-10	99	4310	96	3390	97	3190	97	2990	97	2800	101	109
-5	100	4500	97	3540	97	3330	98	3130	98	2930	101	109
0	101	4710	98	3720	98	3500	98	3280	99	3080	101	109
5	102	4950	99	3900	99	3670	99	3450	99	3230	102	109
10	102	5240	100	4080	100	3840	100	3610	100	3390	102	109
15	102	5540	100	4270	100	4020	101	3790	101	3550	102	109
20	103	5870	101	4490	101	4230	101	3990	101	3750	103	108
25	103	6390	102	4830	102	4560	102	4300	102	4040	103	108
30	104	7100	103	5270	104	4980	104	4690	104	4420	104	108
31	104	7270	104	5370	104	5070	104	4780	104	4500	104	108
35	104	8040	104	5790	104	5470	104	5160	104	4860	104	108

WEIGHT = 10500 LBS — VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	95	3570	93	2810	93	2610	93	2420	93	2250	97	107
-30	95	3630	93	2850	93	2650	93	2470	93	2300	97	107
-25	95	3700	92	2890	92	2700	93	2520	93	2350	98	107
-20	95	3770	92	2940	92	2760	93	2580	93	2410	98	107
-15	95	3870	93	3030	93	2840	93	2660	93	2490	98	107
-10	96	3990	93	3130	93	2940	94	2750	94	2570	98	107
-5	97	4160	94	3270	94	3070	94	2880	95	2690	98	107
0	98	4360	95	3430	95	3220	95	3020	95	2820	99	107
5	98	4560	96	3590	96	3370	96	3170	96	2960	99	107
10	99	4770	96	3760	97	3540	97	3320	97	3110	99	106
15	100	5030	97	3930	97	3700	97	3470	98	3260	100	106
20	100	5320	98	4110	98	3870	98	3640	98	3410	100	106
25	100	5760	99	4400	99	4150	99	3910	99	3670	100	106
30	101	6350	100	4780	100	4510	100	4250	100	3990	101	106
35	101	7120	101	5240	101	4950	101	4660	101	4380	101	106
38	102	7720	102	5570	102	5260	102	4950	102	4660	102	106

WEIGHT = 10000 LBS — VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3400	93	2790	93	2590	93	2410	93	2230	96	107
-30	93	3450	93	2830	93	2640	93	2450	93	2270	96	107
-25	92	3500	92	2870	92	2680	92	2490	92	2310	96	106
-20	92	3560	92	2910	92	2720	92	2530	92	2340	96	106
-15	92	3620	91	2930	91	2730	91	2540	91	2360	96	105
-10	92	3690	91	2940	91	2740	91	2550	91	2360	95	105
-5	93	3850	90	3010	91	2820	91	2640	91	2470	95	105
0	94	4020	91	3150	92	2950	92	2770	92	2580	96	104
5	95	4200	92	3290	92	3090	93	2900	93	2710	96	104
10	96	4390	93	3450	93	3240	93	3040	94	2840	96	104
15	97	4580	94	3600	94	3390	94	3180	94	2970	97	104
20	97	4810	94	3770	95	3540	95	3330	95	3120	97	104
25	97	5200	96	4000	96	3760	96	3540	96	3320	97	104
30	98	5690	97	4330	97	4080	97	3840	97	3600	98	104
35	98	6320	98	4730	98	4460	98	4190	98	3940	98	103
38	99	6800	99	5020	99	4730	99	4450	99	4180	99	103
40	99	7180	99	5230	99	4930	99	4640	99	4360	99	103

WEIGHT = 9500 LBS — VENR = 120 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3380	93	2770	93	2580	93	2400	93	2220	96	106
-30	93	3420	93	2820	93	2620	93	2440	93	2260	95	106
-25	93	3470	93	2860	93	2660	93	2480	93	2300	95	106
-20	92	3510	92	2890	92	2700	92	2510	92	2330	95	106
-15	92	3530	92	2910	92	2720	92	2530	92	2350	95	105
-10	91	3540	91	2920	91	2720	91	2530	91	2350	94	104
-5	90	3580	89	2900	89	2700	89	2510	89	2330	93	103
0	90	3700	88	2880	88	2700	88	2530	88	2360	93	102
5	91	3860	89	3020	89	2830	89	2650	89	2470	93	102
10	92	4040	89	3150	90	2960	90	2770	90	2590	94	102
15	93	4210	90	3290	90	3090	91	2900	91	2710	94	102
20	94	4390	91	3440	91	3230	91	3030	92	2830	94	102
25	95	4680	92	3650	92	3430	92	3220	93	3010	95	101
30	95	5100	93	3920	93	3680	94	3460	94	3240	95	101
35	96	5620	95	4270	95	4010	95	3770	95	3530	96	101
40	96	6310	96	4700	96	4420	96	4150	96	3900	96	101

WEIGHT = 9000 LBS — VENR = 117 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3360	93	2760	93	2580	93	2400	93	2220	95	106
-30	93	3410	93	2810	93	2620	93	2440	93	2260	95	106
-25	93	3450	93	2850	93	2660	93	2470	93	2290	95	106
-20	92	3490	92	2880	92	2690	92	2510	92	2330	94	106
-15	92	3510	92	2900	92	2710	92	2520	92	2340	94	105
-10	91	3520	91	2900	91	2710	91	2520	91	2340	93	104
-5	89	3500	89	2880	89	2690	89	2500	89	2320	92	103
0	88	3480	88	2850	88	2660	88	2470	88	2290	91	101
5	87	3550	86	2830	86	2640	86	2450	86	2270	90	100
10	88	3690	86	2870	86	2690	86	2520	86	2350	90	99
15	89	3850	86	3000	87	2810	87	2630	87	2450	91	99
20	90	4010	87	3130	87	2930	88	2740	88	2560	91	99
25	91	4240	88	3310	89	3110	89	2910	89	2720	92	99
30	92	4560	90	3540	90	3320	90	3110	90	2910	92	99
35	93	5000	91	3830	91	3600	91	3370	91	3160	93	99
40	93	5560	92	4200	92	3950	93	3700	93	3470	93	98

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3350	93	2760	93	2580	93	2400	93	2230	94	106
-30	93	3400	93	2810	93	2620	93	2440	93	2270	94	106
-25	93	3440	93	2840	93	2660	93	2470	93	2300	94	106
-20	93	3480	93	2880	93	2690	93	2510	93	2330	94	106
-15	92	3500	92	2890	92	2700	92	2520	92	2340	93	105
-10	91	3500	91	2900	91	2710	91	2520	91	2340	92	104
-5	89	3480	89	2870	89	2680	89	2490	89	2320	91	103
0	88	3450	88	2840	88	2650	88	2460	88	2280	90	101
5	86	3420	86	2810	86	2620	86	2430	86	2260	89	99
10	85	3420	85	2790	85	2590	85	2410	85	2230	88	98
15	85	3500	83	2770	83	2570	83	2390	83	2210	88	97
20	86	3640	83	2830	84	2650	84	2480	84	2310	88	97
25	87	3850	85	2990	85	2800	85	2620	85	2440	88	96
30	89	4100	86	3190	86	2990	86	2790	86	2610	89	96
35	89	4440	87	3420	87	3210	88	3000	88	2800	89	96
40	90	4900	89	3740	89	3510	89	3290	89	3070	90	96

Figure 4-23 (Sheet 16)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
8000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	107	4810	104	3800	104	3570	104	3360	105	3150	107	115
-30	107	4900	104	3880	104	3650	105	3430	105	3220	107	115
-25	107	4990	104	3960	104	3730	105	3510	105	3290	107	115
-20	107	5110	104	4060	105	3830	105	3600	105	3380	108	115
-15	107	5440	105	4250	105	4010	105	3780	106	3550	108	115
-10	106	5900	106	4450	106	4200	106	3960	106	3720	108	115
-5	106	6450	107	4680	107	4420	107	4170	107	3920	108	115
0	105	7050	107	4930	108	4660	108	4400	108	4150	109	115
5	104	7680	108	5230	108	4950	108	4670	109	4400	109	115
10	103	8430	109	5550	109	5250	109	4960	109	4680	109	115
13	103	8910	110	5750	110	5440	110	5140	110	4850	110	115
15	102	9240	110	5880	110	5570	110	5270	110	4970	110	115

WEIGHT = 12200 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	106	4690	103	3700	103	3480	103	3270	104	3070	107	114
-30	106	4780	103	3780	103	3560	103	3340	104	3140	107	114
-25	106	4870	103	3860	103	3640	103	3420	104	3210	107	114
-20	106	4980	103	3960	103	3730	104	3510	104	3290	107	114
-15	107	5220	104	4140	104	3910	104	3680	105	3450	107	114
-10	107	5530	105	4340	105	4090	105	3860	105	3620	107	114
-5	106	6050	106	4560	106	4310	106	4060	106	3820	108	114
0	105	6620	106	4800	107	4530	107	4280	107	4030	108	114
5	105	7230	107	5080	107	4800	107	4530	108	4270	108	114
10	104	7920	108	5390	108	5100	108	4810	108	4540	109	114
15	103	8680	109	5710	109	5400	109	5110	109	4820	109	114
18	103	9180	109	5920	109	5600	109	5300	109	5000	109	114

WEIGHT = 12000 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	105	4570	102	3600	102	3380	102	3170	102	2970	106	114
-30	105	4650	102	3670	102	3460	102	3250	102	3040	106	114
-25	105	4740	102	3750	102	3530	102	3320	102	3110	106	114
-20	105	4850	102	3840	102	3620	102	3400	103	3190	106	114
-15	106	5070	103	4020	103	3790	103	3570	103	3350	106	113
-10	106	5340	104	4210	104	3980	104	3740	104	3520	106	113
-5	107	5680	104	4430	105	4180	105	3940	105	3700	107	113
0	106	6120	105	4660	105	4400	105	4140	106	3900	107	113
5	106	6700	106	4910	106	4640	106	4380	106	4130	107	113
10	105	7340	107	5210	107	4920	107	4650	107	4380	108	113
15	104	8050	108	5510	108	5220	108	4930	108	4650	108	113
18	104	8510	108	5710	108	5410	108	5110	108	4820	108	113
20	103	8900	108	5870	108	5560	108	5250	108	4960	108	113

WEIGHT = 11800 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	104	4440	101	3490	101	3280	101	3080	101	2880	104	113
-30	104	4520	101	3570	101	3350	101	3150	101	2950	105	113
-25	104	4610	101	3640	101	3430	101	3220	101	3020	105	113
-20	104	4720	101	3730	101	3510	101	3300	101	3100	105	113
-15	105	4920	102	3910	102	3680	102	3460	102	3250	105	113
-10	105	5160	102	4090	103	3860	103	3630	103	3410	105	112
-5	106	5480	103	4300	103	4050	103	3820	104	3580	106	112
0	106	5830	104	4520	104	4260	104	4010	104	3770	106	112
5	106	6200	105	4750	105	4490	105	4230	105	3980	106	112
10	106	6750	105	5030	106	4750	106	4490	106	4220	106	112
15	105	7430	106	5320	106	5030	106	4750	107	4480	107	112
20	104	8230	107	5670	107	5360	107	5070	107	4780	107	112
22	104	8680	107	5850	107	5540	107	5230	107	4940	107	112

WEIGHT = 11600 LBS — VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	102	4320	99	3390	99	3190	100	2990	100	2790	103	112
-30	102	4400	99	3460	100	3250	100	3050	100	2860	103	112
-25	102	4480	99	3530	100	3320	100	3120	100	2920	104	112
-20	102	4580	100	3620	100	3410	100	3200	100	3000	104	112
-15	103	4790	100	3790	100	3570	101	3350	101	3140	104	112
-10	104	5010	101	3970	101	3740	101	3520	102	3300	104	112
-5	105	5300	102	4170	102	3930	102	3700	102	3470	105	112
0	105	5630	103	4380	103	4130	103	3890	103	3650	105	111
5	105	5980	103	4600	104	4340	104	4090	104	3850	105	111
10	105	6360	104	4860	104	4590	105	4330	105	4080	105	111
15	106	6770	105	5140	105	4860	105	4580	105	4320	106	111
20	105	7520	106	5470	106	5170	106	4880	106	4600	106	111
22	105	7950	106	5650	106	5340	106	5040	106	4750	106	111
23	105	8170	106	5740	106	5430	106	5130	106	4840	106	111

WEIGHT = 11400 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	101	4190	98	3290	98	3090	98	2900	99	2710	102	111
-30	101	4270	98	3360	98	3160	98	2960	99	2770	102	111
-25	101	4350	98	3430	98	3220	99	3020	99	2830	102	111
-20	101	4450	98	3510	98	3310	99	3100	99	2910	103	111
-15	102	4650	99	3680	99	3460	99	3250	100	3050	103	111
-10	103	4860	100	3850	100	3630	100	3410	100	3200	103	111
-5	104	5110	101	4040	101	3810	101	3580	101	3360	104	111
0	104	5430	101	4240	102	4000	102	3760	102	3530	104	111
5	104	5760	102	4450	102	4200	103	3950	103	3720	104	110
10	104	6130	103	4690	103	4430	103	4180	103	3930	104	110
15	105	6510	104	4960	104	4690	104	4420	104	4160	105	110
20	105	6980	105	5270	105	4980	105	4700	105	4430	105	110
23	105	7410	105	5530	105	5230	105	4940	105	4650	105	110
25	105	7820	106	5720	106	5410	106	5110	106	4810	106	110
27	105	8310	106	5920	106	5600	106	5290	106	4980	106	110

Figure 4-23 (Sheet 17)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
8000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	98	3960	95	3100	96	2900	96	2720	96	2540	100	109
-30	98	4030	95	3160	96	2970	96	2780	96	2600	100	109
-25	98	4110	95	3220	96	3030	96	2840	96	2650	100	109
-20	98	4200	96	3300	96	3100	96	2910	96	2720	100	109
-15	99	4380	96	3450	97	3250	97	3050	97	2850	101	109
-10	100	4580	97	3620	97	3400	98	3190	98	2990	101	109
-5	101	4800	98	3800	98	3570	98	3360	99	3150	101	109
0	102	5050	99	3980	99	3750	99	3530	100	3310	102	109
5	102	5350	100	4170	100	3930	100	3700	100	3470	102	109
10	102	5680	100	4380	101	4130	101	3890	101	3650	102	109
15	103	6020	101	4620	101	4360	101	4110	102	3860	103	108
20	103	6430	102	4900	102	4630	102	4360	102	4100	103	108
25	103	7070	103	5300	103	5010	103	4730	103	4450	103	108
27	104	7370	104	5490	104	5180	104	4890	104	4610	104	108
30	104	7880	104	5780	104	5460	104	5150	104	4860	104	108
31	104	8070	104	5880	104	5560	104	5250	104	4940	104	108

WEIGHT = 10500 LBS VENR = 126 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	95	3670	93	2900	93	2700	93	2510	93	2340	97	107
-30	95	3740	92	2940	92	2740	93	2560	93	2390	97	107
-25	95	3810	92	2990	92	2790	93	2620	93	2440	98	107
-20	95	3890	92	3050	93	2870	93	2680	93	2510	98	107
-15	96	4060	93	3190	93	2990	94	2810	94	2620	98	107
-10	97	4240	94	3340	94	3130	94	2940	95	2750	98	107
-5	98	4440	95	3500	95	3290	95	3090	95	2890	99	107
0	99	4650	96	3670	96	3450	96	3240	96	3040	99	107
5	99	4870	96	3840	97	3620	97	3400	97	3190	99	106
10	100	5150	97	4030	97	3790	98	3560	98	3340	100	106
15	100	5450	98	4210	98	3970	98	3740	98	3510	100	106
20	100	5810	99	4460	99	4210	99	3960	99	3720	100	106
25	101	6340	100	4820	100	4540	100	4280	100	4020	101	106
30	101	7010	101	5230	101	4940	101	4660	101	4380	101	106
31	101	7160	101	5330	101	5030	101	4740	101	4460	101	106
35	102	7930	102	5750	102	5430	102	5130	102	4820	102	106

WEIGHT = 10000 LBS VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3500	93	2880	93	2680	93	2490	93	2310	96	107
-30	93	3550	93	2920	93	2730	93	2540	93	2350	96	106
-25	92	3610	92	2970	92	2770	92	2580	92	2390	96	106
-20	92	3670	92	3000	92	2800	92	2610	92	2420	96	106
-15	92	3760	90	2980	90	2780	90	2590	90	2400	95	105
-10	93	3920	90	3070	91	2880	91	2700	91	2520	95	105
-5	94	4100	91	3210	92	3020	92	2830	92	2640	96	104
0	95	4290	92	3370	92	3160	93	2970	93	2770	96	104
5	96	4480	93	3530	93	3320	93	3110	94	2910	96	104
10	97	4690	94	3690	94	3470	94	3260	94	3050	97	104
15	97	4930	95	3870	95	3640	95	3420	95	3200	97	104
20	97	5240	95	4050	96	3820	96	3590	96	3370	97	104
25	98	5690	96	4370	97	4120	97	3870	97	3640	98	104
30	98	6240	98	4730	98	4460	98	4200	98	3940	98	103
35	99	6990	99	5180	99	4890	99	4610	99	4330	99	103
37	99	7380	99	5400	99	5100	99	4800	99	4520	99	103

WEIGHT = 9500 LBS VENR = 120 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3470	93	2860	93	2670	93	2480	93	2300	96	106
-30	93	3520	93	2910	93	2710	93	2520	93	2340	95	106
-25	92	3570	92	2950	92	2750	92	2560	92	2380	95	106
-20	92	3610	92	2980	92	2780	92	2590	92	2410	95	106
-15	91	3590	91	2960	91	2770	91	2570	91	2390	94	104
-10	90	3640	89	2940	89	2740	89	2550	89	2370	93	103
-5	90	3770	88	2940	88	2760	88	2580	89	2410	93	102
0	91	3940	89	3080	89	2890	89	2710	89	2530	93	102
5	92	4120	90	3220	90	3030	90	2840	90	2650	94	102
10	93	4300	90	3370	91	3170	91	2970	91	2780	94	102
15	94	4490	91	3530	91	3320	91	3110	92	2910	94	102
20	95	4720	92	3700	92	3480	92	3270	92	3060	95	101
25	95	5110	93	3950	93	3710	93	3490	94	3270	95	101
30	95	5570	94	4260	94	4020	94	3770	95	3540	95	101
35	96	6170	95	4660	96	4390	96	4120	96	3870	96	101
37	96	6480	96	4850	96	4570	96	4300	96	4030	96	101

WEIGHT = 9000 LBS VENR = 117 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3460	93	2850	93	2660	93	2480	93	2300	95	106
-30	93	3500	93	2900	93	2700	93	2520	93	2340	95	106
-25	93	3550	93	2940	93	2740	93	2560	93	2380	95	106
-20	92	3590	92	2970	92	2770	92	2590	92	2410	94	106
-15	91	3570	91	2950	91	2750	91	2560	91	2380	93	104
-10	89	3540	89	2920	89	2730	89	2540	89	2360	92	103
-5	88	3530	87	2890	87	2700	87	2510	87	2330	91	101
0	87	3610	86	2870	86	2670	86	2480	86	2300	90	100
5	88	3770	86	2940	86	2750	86	2580	86	2400	91	99
10	89	3930	87	3070	87	2880	87	2690	87	2510	91	99
15	90	4100	87	3210	88	3010	88	2820	88	2630	91	99
20	91	4290	88	3360	88	3150	89	2960	89	2760	92	99
25	92	4570	89	3570	90	3350	90	3140	90	2940	92	99
30	92	4960	91	3830	91	3600	91	3380	91	3160	92	99
35	93	5460	92	4170	92	3930	92	3690	92	3450	93	98
37	93	5710	92	4330	93	4080	93	3830	93	3590	93	98

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	3450	93	2850	93	2660	93	2480	93	2310	94	106
-30	93	3500	93	2890	93	2700	93	2520	93	2340	94	106
-25	93	3540	93	2930	93	2740	93	2560	93	2380	94	106
-20	92	3570	92	2960	92	2770	92	2590	92	2410	93	106
-15	91	3550	91	2940	91	2750	91	2560	91	2380	92	104
-10	89	3520	89	2910	89	2720	89	2530	89	2350	91	102
-5	88	3490	88	2880	88	2680	88	2500	88	2320	90	101
0	86	3460	86	2850	86	2660	86	2470	86	2290	89	99
5	85	3480	85	2820	85	2630	85	2440	85	2260	88	98
10	85	3580	83	2800	83	2610	83	2430	84	2260	88	97
15	86	3730	83	2900	84	2720	84	2540	84	2370	88	97
20	87	3900	84	3040	85	2840	85	2660	85	2480	88	96
25	88	4130	86	3220	86	3020	86	2820	86	2640	89	96
30	89	4410	87	3430	87	3210	87	3010	87	2810	89	96
35	90	4830	88	3720	88	3490	88	3270	89	3060	90	96
37	90	5030	89	3860	89	3630	89	3400	89	3180	90	96

Figure 4-23 (Sheet 18)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
9000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	107	5010	104	3970	105	3740	105	3520	105	3300	108	115
-30	108	5140	105	4090	105	3850	105	3620	105	3400	108	115
-25	107	5340	105	4200	105	3960	105	3730	105	3500	108	115
-20	106	5700	105	4350	105	4110	106	3870	106	3640	108	115
-15	105	6170	106	4560	106	4300	106	4060	106	3820	108	115
-10	105	6690	107	4780	107	4520	107	4260	107	4010	109	115
-5	104	7310	108	5050	108	4780	108	4510	108	4250	109	115
0	103	8000	108	5360	108	5070	109	4790	109	4520	109	115
5	102	8800	109	5700	109	5400	109	5100	109	4810	110	115
7	102	9150	110	5840	110	5530	110	5230	110	4940	110	115
9	101	9500	110	5980	110	5670	110	5360	110	5060	110	115

WEIGHT = 12200 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	106	4890	103	3870	103	3650	104	3430	104	3220	107	114
-30	107	5020	104	3980	104	3750	104	3530	104	3310	107	114
-25	107	5150	104	4090	104	3860	104	3630	104	3410	107	114
-20	107	5350	104	4240	104	4010	105	3770	105	3550	107	114
-15	106	5790	105	4440	105	4190	105	3950	105	3710	107	114
-10	105	6310	106	4660	106	4400	106	4150	106	3900	108	114
-5	104	6890	106	4910	107	4640	107	4380	107	4130	108	114
0	104	7530	107	5210	107	4930	107	4650	108	4390	108	114
5	103	8260	108	5530	108	5240	108	4950	108	4670	109	114
9	102	8920	109	5800	109	5500	109	5200	109	4900	109	114
10	102	9090	109	5870	109	5560	109	5260	109	4960	109	114
12	102	9440	109	6020	109	5700	109	5390	109	5090	109	114

WEIGHT = 12000 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	105	4760	102	3760	102	3540	102	3330	103	3120	106	114
-30	105	4880	102	3870	102	3640	103	3420	103	3210	106	114
-25	106	5010	102	3970	103	3750	103	3520	103	3310	106	114
-20	106	5190	103	4130	103	3890	103	3660	104	3440	106	113
-15	106	5460	104	4310	104	4070	104	3840	104	3600	106	113
-10	106	5850	104	4520	105	4270	105	4020	105	3780	107	113
-5	105	6390	105	4760	105	4490	106	4240	106	3990	107	113
0	105	7000	106	5040	106	4760	106	4500	106	4240	107	113
5	104	7670	107	5340	107	5060	107	4780	107	4500	108	113
10	103	8430	108	5670	108	5370	108	5070	108	4790	108	113
12	103	8750	108	5810	108	5500	108	5200	108	4900	108	113
14	102	9100	108	5950	108	5630	108	5330	108	5030	108	113

WEIGHT = 11800 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	104	4630	101	3650	101	3440	101	3230	101	3020	105	113
-30	104	4750	101	3750	101	3530	101	3320	102	3110	105	113
-25	104	4870	101	3860	101	3630	102	3420	102	3210	105	113
-20	105	5040	102	4000	102	3770	102	3550	102	3330	105	113
-15	105	5280	102	4190	103	3950	103	3720	103	3490	105	112
-10	106	5590	103	4390	103	4140	103	3900	104	3660	106	112
-5	106	5940	104	4610	104	4350	104	4100	104	3860	106	112
0	105	6460	105	4870	105	4600	105	4340	105	4090	106	112
5	105	7090	106	5160	106	4880	106	4610	106	4340	107	112
10	104	7800	106	5480	106	5180	107	4890	107	4610	107	112
14	103	8420	107	5740	107	5430	107	5140	107	4840	107	112
15	103	8580	107	5810	107	5500	107	5200	107	4900	107	112
17	103	8930	107	5950	107	5640	107	5330	107	5030	107	112

WEIGHT = 11600 LBS — VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	103	4500	100	3550	100	3330	100	3130	100	2930	104	112
-30	103	4610	100	3640	100	3430	100	3220	100	3020	104	112
-25	103	4730	100	3740	100	3520	100	3310	101	3110	104	112
-20	103	4900	100	3880	101	3660	101	3440	101	3230	104	112
-15	104	5110	101	4060	101	3830	102	3600	102	3380	104	112
-10	105	5390	102	4250	102	4010	102	3780	102	3550	105	111
-5	105	5730	103	4470	103	4220	103	3970	103	3740	105	111
0	105	6100	104	4710	104	4450	104	4190	104	3950	105	111
5	105	6510	104	4990	104	4710	105	4450	105	4190	105	111
10	105	7140	105	5280	105	5000	105	4720	105	4450	106	111
15	104	7910	106	5600	106	5300	106	5010	106	4720	106	111
17	104	8230	106	5740	106	5430	106	5130	106	4840	106	111
19	103	8650	107	5920	107	5600	107	5290	107	4990	107	111

WEIGHT = 11400 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	101	4370	98	3440	98	3230	99	3030	99	2840	103	111
-30	101	4480	98	3530	99	3320	99	3120	99	2920	103	111
-25	102	4590	99	3630	99	3420	99	3210	99	3010	103	111
-20	102	4760	99	3770	99	3550	100	3330	100	3130	103	111
-15	103	4960	100	3940	100	3710	100	3490	101	3280	103	111
-10	104	5210	101	4130	101	3890	101	3660	101	3440	104	111
-5	104	5530	102	4330	102	4090	102	3850	102	3620	104	111
0	104	5880	102	4550	102	4300	103	4050	103	3810	104	110
5	104	6260	103	4820	103	4550	103	4290	103	4040	104	110
10	105	6670	104	5100	104	4820	104	4550	104	4280	105	110
15	105	7170	105	5400	105	5110	105	4830	105	4550	105	110
19	104	7890	105	5700	105	5400	105	5100	105	4810	105	110
20	104	8110	106	5790	106	5480	106	5180	106	4880	106	110
23	104	8810	106	6070	106	5750	106	5430	106	5130	106	110

Figure 4-23 (Sheet 19)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
9000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	98	4120	96	3230	96	3040	96	2850	96	2660	100	109
-30	99	4220	96	3320	96	3120	96	2930	97	2740	100	109
-25	99	4330	96	3410	96	3210	97	3010	97	2820	101	109
-20	100	4480	97	3540	97	3330	97	3130	97	2930	101	109
-15	100	4680	97	3700	98	3480	98	3270	98	3070	101	109
-10	101	4890	98	3870	98	3650	99	3430	99	3220	101	109
-5	102	5150	99	4070	99	3840	99	3610	100	3390	102	109
0	102	5460	100	4270	100	4030	100	3790	100	3560	102	109
5	102	5800	101	4490	101	4240	101	3990	101	3750	102	109
10	103	6170	101	4740	101	4480	102	4220	102	3980	103	108
15	103	6560	102	5020	102	4740	102	4470	102	4210	103	108
20	103	7110	103	5370	103	5080	103	4790	103	4520	103	108
23	104	7530	104	5630	104	5330	104	5030	104	4740	104	108
25	104	7840	104	5810	104	5500	104	5190	104	4900	104	108
27	104	8190	104	6010	104	5680	104	5370	104	5060	104	108

WEIGHT = 10500 LBS VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	95	3820	92	2990	93	2800	93	2620	93	2450	98	107
-30	95	3920	92	3070	93	2880	93	2700	93	2520	98	107
-25	96	4010	93	3150	93	2960	93	2770	94	2590	98	107
-20	96	4150	93	3270	94	3070	94	2880	94	2690	98	107
-15	97	4330	94	3410	94	3210	94	3010	95	2820	98	107
-10	98	4530	95	3570	95	3360	95	3150	95	2950	99	107
-5	99	4740	96	3750	96	3530	96	3310	96	3100	99	107
0	99	4970	97	3930	97	3700	97	3480	97	3260	99	106
5	100	5270	97	4120	97	3880	98	3650	98	3430	100	106
10	100	5580	98	4330	98	4080	98	3840	98	3610	100	106
15	100	5930	99	4570	99	4320	99	4070	99	3820	100	106
20	101	6380	100	4880	100	4610	100	4340	100	4090	101	106
25	101	6980	101	5270	101	4980	101	4700	101	4420	101	106
27	101	7270	101	5440	101	5140	101	4850	101	4570	101	106
30	102	7740	102	5720	102	5410	102	5100	102	4810	102	106
32	102	8160	102	5950	102	5620	102	5310	102	5000	102	106

WEIGHT = 10000 LBS VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	92	3600	92	2950	92	2750	92	2560	92	2370	96	106
-30	92	3660	92	2980	92	2780	92	2590	92	2400	96	106
-25	92	3730	91	3010	91	2810	91	2610	91	2430	95	105
-20	92	3840	90	3020	90	2820	90	2640	91	2470	95	105
-15	93	4000	91	3140	91	2940	91	2760	91	2580	96	105
-10	94	4180	91	3280	92	3080	92	2890	92	2700	96	104
-5	95	4370	92	3440	93	3230	93	3030	93	2840	96	104
0	96	4570	93	3610	93	3390	94	3180	94	2980	97	104
5	97	4790	94	3780	94	3560	94	3340	94	3130	97	104
10	97	5050	95	3960	95	3730	95	3500	95	3290	97	104
15	97	5350	95	4150	96	3910	96	3680	96	3460	97	104
20	98	5730	96	4430	96	4170	97	3930	97	3690	98	104
25	98	6230	97	4760	97	4490	98	4230	98	3980	98	103
30	99	6850	99	5160	99	4870	99	4590	99	4320	99	103
32	99	7190	99	5360	99	5060	99	4770	99	4490	99	103
35	99	7800	99	5700	99	5380	99	5080	99	4780	99	103

WEIGHT = 9500 LBS VENR = 120 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	92	3550	92	2930	92	2730	92	2550	92	2360	95	106
-30	92	3580	92	2960	92	2760	92	2570	92	2390	95	105
-25	91	3620	91	2990	91	2790	91	2600	91	2410	94	105
-20	90	3630	90	2990	90	2790	90	2600	90	2410	94	104
-15	90	3700	89	2980	89	2780	89	2580	89	2400	93	103
-10	90	3840	88	3010	88	2820	88	2640	89	2470	93	102
-5	91	4020	89	3150	89	2950	89	2770	89	2590	93	102
0	92	4200	90	3300	90	3100	90	2900	90	2710	94	102
5	93	4390	90	3450	91	3240	91	3040	91	2850	94	102
10	94	4590	91	3610	91	3400	92	3190	92	2980	94	102
15	95	4820	92	3780	92	3560	92	3340	93	3130	95	101
20	95	5150	93	4000	93	3770	93	3540	93	3320	95	101
25	95	5570	94	4300	94	4050	94	3810	94	3580	95	101
30	96	6080	95	4640	95	4370	95	4110	95	3860	96	101
35	96	6840	96	5110	96	4820	96	4540	96	4260	96	101

WEIGHT = 9000 LBS VENR = 117 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	92	3530	92	2920	92	2720	92	2540	92	2360	94	106
-30	92	3560	92	2940	92	2750	92	2560	92	2380	94	105
-25	91	3590	91	2970	91	2780	91	2590	91	2410	94	105
-20	90	3600	90	2970	90	2780	90	2590	90	2410	93	104
-15	89	3580	89	2960	89	2760	89	2570	89	2390	92	102
-10	88	3590	87	2930	87	2740	87	2550	87	2360	91	101
-5	88	3680	86	2910	86	2710	86	2520	86	2340	90	100
0	89	3840	86	3000	86	2820	86	2640	87	2460	91	99
5	89	4010	87	3140	87	2950	87	2760	87	2580	91	99
10	90	4190	88	3280	88	3080	88	2890	88	2700	91	99
15	91	4380	88	3430	89	3230	89	3020	89	2830	92	99
20	92	4610	89	3620	89	3400	90	3190	90	2980	92	99
25	92	4970	90	3860	90	3630	91	3410	91	3200	92	99
30	93	5390	91	4160	92	3920	92	3680	92	3450	93	98
35	93	6000	93	4560	93	4300	93	4040	93	3790	93	98

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	92	3520	92	2910	92	2720	92	2540	92	2360	93	106
-30	92	3550	92	2940	92	2750	92	2560	92	2380	93	105
-25	91	3580	91	2960	91	2770	91	2590	91	2410	93	105
-20	90	3580	90	2960	90	2770	90	2580	90	2400	92	104
-15	89	3560	89	2940	89	2750	89	2560	89	2380	91	102
-10	87	3530	87	2910	87	2720	87	2530	87	2350	90	101
-5	86	3510	86	2890	86	2690	86	2500	86	2320	89	99
0	85	3540	84	2860	84	2670	84	2480	84	2300	88	97
5	85	3650	83	2840	83	2660	83	2490	84	2320	88	97
10	86	3810	84	2970	84	2780	84	2600	84	2430	88	97
15	87	3970	84	3100	85	2910	85	2720	85	2540	88	96
20	88	4180	85	3260	86	3060	86	2870	86	2680	89	96
25	89	4420	87	3460	87	3250	87	3040	87	2840	89	96
30	90	4780	88	3710	88	3490	88	3270	88	3060	90	96
35	90	5280	89	4060	89	3820	89	3580	89	3350	90	96

Figure 4-23 (Sheet 20)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
10,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS					VENR = 139 KIAS										WEIGHT = 12200 LBS					VENR = 138 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2	TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS			V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-35	107	5340	105	4210	105	3980	105	3740	105	3520	108	115	-35	107	5170	104	4110	104	3870	104	3650	104	3420	107	114
-30	106	5670	105	4350	105	4100	105	3870	106	3640	108	115	-30	107	5340	104	4240	104	4000	104	3770	105	3540	107	114
-25	105	6000	105	4490	106	4240	106	4000	106	3760	108	115	-25	106	5640	104	4380	104	4130	105	3900	105	3660	107	114
-20	104	6490	106	4700	106	4440	106	4190	107	3940	108	115	-20	105	6110	105	4580	105	4330	105	4080	106	3840	107	114
-15	103	7030	107	4940	107	4670	107	4400	107	4150	109	115	-15	104	6640	106	4810	106	4550	106	4290	106	4040	108	114
-10	103	7650	108	5210	108	4930	108	4660	108	4390	109	115	-10	103	7210	107	5060	107	4790	107	4520	107	4260	108	114
-5	102	8380	108	5540	109	5250	109	4960	109	4680	109	115	-5	103	7890	107	5380	107	5090	108	4810	108	4540	108	114
0	101	9230	109	5900	109	5590	110	5280	110	4990	110	115	0	102	8690	108	5720	108	5420	108	5120	109	4840	109	114
1	101	9410	109	5970	110	5660	110	5350	110	5050	110	115	3	101	9210	109	5940	109	5630	109	5320	109	5020	109	114
3	100	9800	110	6120	110	5800	110	5490	110	5180	110	115	5	101	9590	109	6090	109	5770	109	5460	109	5150	109	114
													6	101	9770	109	6160	109	5840	109	5520	109	5220	109	114

WEIGHT = 12000 LBS					VENR = 137 KIAS										WEIGHT = 11800 LBS					VENR = 135 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2	TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS			V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-35	106	5030	102	3990	103	3760	103	3540	103	3320	106	114	-35	104	4890	101	3870	101	3650	102	3430	102	3220	105	113
-30	106	5180	103	4120	103	3880	103	3660	103	3430	106	113	-30	105	5030	102	4000	102	3770	102	3540	102	3330	105	113
-25	106	5340	103	4250	103	4010	104	3780	104	3550	106	113	-25	105	5190	102	4130	102	3890	102	3660	102	3440	105	113
-20	106	5670	104	4450	104	4200	104	3960	104	3720	106	113	-20	105	5450	103	4320	103	4070	103	3840	103	3610	105	112
-15	105	6170	105	4670	105	4410	105	4160	105	3910	107	113	-15	106	5760	103	4530	103	4270	104	4030	104	3790	106	112
-10	104	6730	105	4900	105	4630	106	4370	106	4120	107	113	-10	105	6220	104	4750	104	4490	104	4230	104	3980	106	112
-5	104	7360	106	5200	106	4920	106	4650	106	4380	107	113	-5	104	6830	105	5030	105	4760	105	4490	105	4230	106	112
0	103	8080	107	5530	107	5230	107	4940	107	4660	108	113	0	104	7490	106	5340	106	5050	106	4770	106	4500	107	112
5	102	8900	108	5880	108	5570	108	5270	108	4970	108	113	5	103	8240	107	5680	107	5370	107	5080	107	4790	107	112
6	102	9070	108	5950	108	5640	108	5330	108	5030	108	113	8	102	8730	107	5880	107	5570	107	5270	107	4970	107	112
8	101	9420	108	6090	108	5770	108	5460	108	5160	108	113	10	102	9080	107	6020	107	5710	107	5400	107	5090	107	112
													11	102	9250	107	6100	107	5780	107	5460	107	5160	107	112

WEIGHT = 11600 LBS					VENR = 134 KIAS										WEIGHT = 11400 LBS					VENR = 133 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2	TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS			V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-35	103	4750	100	3760	100	3540	100	3320	101	3120	104	112	-35	102	4610	99	3640	99	3430	99	3220	99	3020	103	111
-30	103	4890	100	3880	100	3650	101	3440	101	3220	104	112	-30	102	4750	99	3760	99	3540	99	3330	100	3120	103	111
-25	104	5040	101	4000	101	3770	101	3550	101	3330	104	112	-25	102	4900	99	3880	100	3660	100	3440	100	3230	103	111
-20	104	5260	101	4190	102	3950	102	3720	102	3500	104	112	-20	103	5110	100	4060	100	3830	100	3600	101	3380	103	111
-15	105	5560	102	4390	102	4140	102	3900	103	3670	105	111	-15	104	5370	101	4250	101	4020	101	3780	101	3550	104	111
-10	105	5900	103	4610	103	4350	103	4100	103	3850	105	111	-10	104	5690	102	4460	102	4210	102	3970	102	3730	104	110
-5	105	6290	104	4860	104	4600	104	4340	104	4080	105	111	-5	104	6060	102	4700	103	4440	103	4190	103	3940	104	110
0	105	6890	104	5160	105	4880	105	4600	105	4340	106	111	0	105	6450	103	4980	103	4710	103	4440	104	4180	105	110
5	104	7600	105	5480	105	5180	105	4890	106	4620	106	111	5	105	6930	104	5280	104	4990	104	4720	104	4440	105	110
10	103	8380	106	5810	106	5500	106	5200	106	4910	106	111	10	104	7660	105	5600	105	5300	105	5010	105	4720	105	110
11	103	8530	106	5880	106	5570	106	5260	106	4970	106	111	14	103	8330	105	5880	105	5560	105	5260	105	4960	105	110
14	102	9060	107	6100	107	5780	107	5460	107	5160	107	111	15	103	8500	106	5950	106	5630	106	5330	106	5030	106	110
													18	103	9140	106	6220	106	5890	106	5570	106	5260	106	110

Figure 4-23 (Sheet 21)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
10,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	99	4350	96	3420	96	3220	97	3020	97	2830	101	109
-30	99	4480	96	3530	97	3320	97	3120	97	2920	101	109
-25	100	4610	97	3650	97	3430	97	3220	97	3020	101	109
-20	100	4820	98	3810	98	3590	98	3380	98	3170	101	109
-15	101	5030	98	4000	98	3770	99	3540	99	3320	101	109
-10	102	5290	99	4190	99	3950	99	3720	100	3490	102	109
-5	102	5620	100	4400	100	4150	100	3910	100	3670	102	109
0	102	5970	101	4640	101	4380	101	4130	101	3890	102	108
5	103	6360	101	4910	102	4640	102	4380	102	4120	103	108
10	103	6780	102	5200	102	4910	102	4640	102	4370	103	108
15	103	7260	103	5520	103	5220	103	4930	103	4650	103	108
18	104	7650	104	5760	104	5450	104	5150	104	4860	104	108
20	104	7930	104	5940	104	5620	104	5310	104	5010	104	108
23	104	8520	104	6210	104	5880	104	5560	104	5250	104	108

WEIGHT = 10500 LBS — VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	95	4030	93	3170	93	2970	93	2790	93	2600	98	107
-30	96	4150	93	3260	93	3060	94	2870	94	2690	98	107
-25	96	4270	93	3360	94	3160	94	2970	94	2780	98	107
-20	97	4460	94	3520	94	3310	95	3110	95	2910	98	107
-15	98	4660	95	3680	95	3470	95	3250	96	3050	99	107
-10	99	4870	96	3860	96	3630	96	3410	96	3200	99	107
-5	99	5110	97	4050	97	3820	97	3590	97	3370	99	106
0	100	5420	97	4250	98	4010	98	3770	98	3540	100	106
5	100	5760	98	4480	98	4230	98	3980	99	3750	100	106
10	100	6120	99	4740	99	4470	99	4220	99	3970	100	106
15	101	6510	100	5010	100	4740	100	4470	100	4200	101	106
20	101	7080	101	5380	101	5090	101	4800	101	4520	101	106
23	101	7470	101	5630	101	5320	101	5020	101	4730	101	106
25	102	7760	102	5800	102	5490	102	5180	102	4880	102	106
28	102	8260	102	6090	102	5760	102	5440	102	5130	102	106

WEIGHT = 10000 LBS — VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	92	3750	91	3030	91	2830	91	2630	91	2440	95	105
-30	92	3840	90	3050	90	2850	90	2650	90	2460	95	105
-25	93	3940	90	3100	90	2910	90	2720	91	2550	95	105
-20	93	4110	91	3230	91	3040	91	2850	91	2660	96	105
-15	94	4300	92	3380	92	3180	92	2980	92	2790	96	104
-10	95	4490	92	3540	93	3330	93	3120	93	2930	96	104
-5	96	4700	93	3710	93	3500	94	3280	94	3080	97	104
0	97	4920	94	3900	94	3670	94	3450	95	3230	97	104
5	97	5210	95	4090	95	3850	95	3620	95	3390	97	104
10	98	5520	96	4300	96	4050	96	3820	96	3590	98	104
15	98	5860	96	4550	96	4290	97	4040	97	3800	98	104
20	98	6320	97	4870	97	4590	97	4330	98	4070	98	103
25	99	6880	98	5240	98	4950	98	4660	99	4390	99	103
28	99	7290	99	5490	99	5180	99	4890	99	4600	99	103
30	99	7650	99	5700	99	5390	99	5080	99	4780	99	103
32	99	8090	99	5940	99	5610	99	5300	99	4990	99	103

WEIGHT = 9500 LBS — VENR = 120 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	91	3640	91	3010	91	2810	91	2620	91	2430	95	105
-30	91	3670	91	3030	91	2830	91	2640	91	2450	94	104
-25	90	3710	90	3050	90	2850	90	2650	90	2460	94	104
-20	90	3790	88	3040	88	2830	88	2640	88	2450	93	102
-15	91	3950	88	3100	88	2910	88	2730	89	2550	93	102
-10	91	4130	89	3240	89	3040	89	2850	90	2670	93	102
-5	92	4320	90	3400	90	3190	90	2990	90	2800	94	102
0	93	4520	91	3560	91	3350	91	3140	91	2940	94	102
5	94	4730	91	3730	92	3510	92	3300	92	3090	94	102
10	95	4970	92	3910	92	3680	92	3450	93	3240	95	101
15	95	5260	93	4110	93	3870	93	3640	93	3420	95	101
20	95	5650	94	4390	94	4140	94	3900	94	3660	95	101
25	96	6120	95	4710	95	4450	95	4180	95	3930	96	101
30	96	6740	96	5110	96	4820	96	4540	96	4270	96	101
32	96	7090	96	5330	96	5030	96	4740	96	4450	96	101
33	97	7280	97	5440	97	5130	97	4840	97	4550	97	101

WEIGHT = 9000 LBS — VENR = 117 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	91	3620	91	2990	91	2800	91	2610	91	2420	94	105
-30	91	3640	91	3010	91	2820	91	2620	91	2440	93	104
-25	90	3660	90	3030	90	2830	90	2640	90	2450	93	103
-20	88	3650	88	3010	88	2810	88	2620	88	2430	92	102
-15	88	3680	87	2990	87	2790	87	2600	87	2410	91	101
-10	88	3780	85	2970	85	2770	86	2590	86	2420	90	99
-5	89	3950	86	3090	86	2900	86	2720	87	2540	91	99
0	89	4130	87	3240	87	3040	87	2850	88	2660	91	99
5	90	4320	88	3390	88	3180	88	2980	88	2790	91	99
10	91	4510	88	3550	89	3330	89	3130	89	2920	92	99
15	92	4710	89	3710	89	3490	90	3280	90	3070	92	99
20	92	5050	90	3940	90	3710	90	3490	91	3270	92	99
25	93	5440	91	4230	91	3980	91	3740	92	3510	93	98
30	93	5940	92	4570	92	4310	92	4050	93	3800	93	98
33	93	6370	93	4850	93	4570	93	4300	93	4040	93	98

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	92	3600	92	2990	92	2790	92	2610	92	2420	93	105
-30	91	3620	91	3000	91	2810	91	2620	91	2440	92	104
-25	90	3640	90	3020	90	2820	90	2630	90	2450	92	103
-20	89	3620	89	3000	89	2800	89	2610	89	2430	91	102
-15	87	3600	87	2970	87	2780	87	2590	87	2400	90	100
-10	86	3580	86	2950	86	2750	86	2560	86	2380	89	99
-5	85	3630	84	2920	84	2730	84	2530	84	2350	88	97
0	85	3750	83	2930	83	2750	83	2570	84	2400	88	97
5	86	3920	84	3060	84	2870	84	2690	84	2510	88	96
10	87	4090	85	3200	85	3000	85	2810	85	2630	88	96
15	88	4280	85	3350	86	3140	86	2950	86	2750	89	96
20	89	4510	86	3540	87	3320	87	3110	87	2910	89	96
25	90	4820	87	3770	88	3540	88	3330	88	3120	90	96
30	90	5240	88	4070	89	3830	89	3600	89	3370	90	96
33	90	5590	89	4310	89	4060	90	3810	90	3570	90	96

Figure 4-23 (Sheet 22)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
11,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS				VENR = 139 KIAS							
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	105	6140	106	4590	106	4330	106	4080	106	3840	108	115
-30	104	6480	106	4740	106	4470	106	4220	106	3970	108	115
-25	103	6910	106	4920	106	4650	107	4380	107	4130	108	115
-20	103	7480	107	5160	107	4880	107	4610	107	4350	109	115
-15	102	8130	108	5460	108	5170	108	4880	108	4610	109	115
-10	101	8870	108	5790	109	5480	109	5180	109	4900	109	115
-5	100	9800	109	6170	110	5850	110	5530	110	5230	110	115
-3	100	10210	110	6330	110	6000	110	5680	110	5370	110	115

WEIGHT = 12200 LBS				VENR = 138 KIAS							
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	106	5760	104	4470	105	4220	105	3980	105	3740	107	114
-30	105	6120	105	4620	105	4360	105	4110	105	3860	107	114
-25	104	6520	105	4790	105	4530	106	4270	106	4020	108	114
-20	103	7070	106	5030	106	4750	106	4490	106	4220	108	114
-15	102	7670	107	5300	107	5020	107	4740	107	4470	108	114
-10	102	8360	107	5620	107	5320	108	5030	108	4750	108	114
-5	101	9220	108	5990	108	5670	109	5370	109	5070	109	114
-3	100	9600	109	6140	109	5820	109	5510	109	5200	109	114
0	100	10190	109	6380	109	6040	109	5720	109	5410	109	114

WEIGHT = 12000 LBS				VENR = 137 KIAS							
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	106	5470	103	4350	103	4100	104	3860	104	3630	106	113
-30	106	5680	104	4480	104	4230	104	3980	104	3750	106	113
-25	105	6070	104	4650	104	4390	104	4140	104	3900	106	113
-20	104	6590	105	4880	105	4610	105	4350	105	4090	107	113
-15	103	7170	105	5130	106	4850	106	4580	106	4320	107	113
-10	102	7800	106	5430	106	5140	106	4860	107	4580	107	113
-5	102	8580	107	5780	107	5480	107	5180	107	4890	108	113
0	101	9480	108	6160	108	5830	108	5520	108	5210	108	113
2	100	9860	108	6310	108	5980	108	5660	108	5350	108	113

WEIGHT = 11800 LBS				VENR = 136 KIAS							
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	105	5300	102	4220	102	3980	102	3740	103	3510	105	113
-30	105	5470	102	4350	103	4110	103	3870	103	3630	105	112
-25	105	5700	103	4510	103	4260	103	4010	103	3770	105	112
-20	105	6120	103	4730	104	4470	104	4210	104	3960	106	112
-15	104	6660	104	4960	104	4690	104	4430	105	4170	106	112
-10	103	7260	105	5250	105	4970	105	4700	105	4430	106	112
-5	102	7970	106	5580	106	5280	106	4990	106	4710	107	112
0	102	8790	107	5940	107	5630	107	5320	107	5020	107	112
2	101	9140	107	6090	107	5770	107	5460	107	5150	107	112
5	101	9700	107	6320	107	5990	107	5670	107	5350	107	112

WEIGHT = 11600 LBS				VENR = 134 KIAS							
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	104	5150	101	4090	101	3850	101	3630	101	3400	104	112
-30	104	5310	101	4220	101	3980	101	3750	102	3520	104	112
-25	104	5500	101	4370	102	4130	102	3890	102	3660	104	112
-20	105	5820	102	4590	102	4330	103	4080	103	3840	105	111
-15	105	6160	103	4810	103	4550	103	4290	103	4030	105	111
-10	104	6700	104	5080	104	4800	104	4530	104	4270	105	111
-5	103	7370	104	5390	105	5100	105	4820	105	4540	106	111
0	103	8130	105	5730	105	5430	106	5130	106	4840	106	111
5	102	8960	106	6090	106	5770	106	5460	106	5150	106	111
8	101	9510	107	6320	107	5990	107	5660	107	5350	107	111

WEIGHT = 11400 LBS				VENR = 133 KIAS							
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	102	5000	99	3970	100	3740	100	3510	100	3300	103	111
-30	103	5150	100	4090	100	3860	100	3630	100	3410	103	111
-25	103	5330	100	4240	100	4000	101	3770	101	3540	103	111
-20	104	5610	101	4450	101	4190	101	3960	102	3720	104	111
-15	104	5940	102	4660	102	4400	102	4150	102	3900	104	110
-10	104	6300	102	4910	103	4640	103	4380	103	4120	104	110
-5	104	6760	103	5210	103	4930	103	4650	104	4380	105	110
0	104	7450	104	5530	104	5230	104	4940	104	4660	105	110
5	103	8250	105	5870	105	5560	105	5260	105	4960	105	110
8	102	8750	105	6090	105	5770	105	5450	105	5150	105	110
10	102	9120	106	6240	106	5910	106	5590	106	5280	106	110
13	102	9690	106	6480	106	6140	106	5810	106	5490	106	110

Figure 4-23 (Sheet 23)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
11,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	100	4710	97	3720	97	3510	97	3290	98	3090	101	109
-30	100	4850	97	3840	97	3620	98	3400	98	3190	101	109
-25	101	5020	98	3980	98	3750	98	3530	98	3310	101	109
-20	101	5250	98	4170	99	3940	99	3700	99	3480	102	109
-15	102	5520	99	4370	99	4120	100	3890	100	3650	102	109
-10	102	5850	100	4580	100	4330	100	4080	100	3830	102	109
-5	102	6230	101	4850	101	4580	101	4320	101	4070	102	108
0	103	6640	101	5140	102	4860	102	4590	102	4320	103	108
5	103	7090	102	5450	102	5150	102	4870	103	4590	103	108
10	103	7590	103	5790	103	5480	103	5180	103	4880	103	108
13	103	8000	104	6010	104	5690	104	5370	104	5070	104	108
15	103	8410	104	6170	104	5850	104	5530	104	5220	104	108
19	103	9330	104	6540	104	6190	104	5860	104	5530	104	108

WEIGHT = 10500 LBS — VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	96	4360	94	3430	94	3230	94	3030	94	2830	98	107
-30	97	4490	94	3540	94	3330	94	3130	95	2930	98	107
-25	97	4640	94	3670	95	3450	95	3240	95	3040	99	107
-20	98	4860	95	3840	95	3620	96	3400	96	3190	99	107
-15	99	5080	96	4030	96	3790	96	3570	96	3350	99	107
-10	99	5320	97	4220	97	3980	97	3740	97	3520	99	106
-5	100	5650	97	4430	98	4180	98	3940	98	3700	100	106
0	100	6000	98	4690	98	4430	98	4170	99	3930	100	106
5	100	6390	99	4960	99	4690	99	4420	99	4160	100	106
10	101	6810	100	5250	100	4970	100	4690	100	4410	101	106
15	101	7320	101	5600	101	5290	101	5000	101	4710	101	106
19	101	7830	101	5920	101	5600	101	5290	101	4990	101	106
20	101	7970	101	6010	101	5680	101	5370	101	5060	101	106
25	102	8770	102	6470	102	6130	102	5790	102	5460	102	106

WEIGHT = 10000 LBS — VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	93	4030	90	3160	90	2970	91	2780	91	2600	95	105
-30	93	4140	90	3260	91	3060	91	2870	91	2690	95	105
-25	94	4290	91	3370	91	3170	91	2970	92	2780	96	105
-20	94	4480	92	3530	92	3320	92	3120	92	2920	96	104
-15	95	4680	92	3700	93	3480	93	3270	93	3060	96	104
-10	96	4890	93	3870	93	3640	94	3420	94	3210	97	104
-5	97	5130	94	4070	94	3830	94	3600	95	3380	97	104
0	97	5430	95	4260	95	4020	95	3780	95	3550	97	104
5	98	5760	96	4500	96	4250	96	4000	96	3760	98	104
10	98	6120	96	4760	96	4500	97	4240	97	3990	98	104
15	98	6540	97	5060	97	4780	97	4510	97	4240	98	103
20	99	7080	98	5420	98	5120	98	4830	98	4550	99	103
25	99	7730	99	5830	99	5510	99	5200	99	4900	99	103
29	100	8520	100	6280	100	5940	100	5610	100	5290	100	103

WEIGHT = 9500 LBS — VENR = 121 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	90	3780	90	3100	90	2890	90	2690	90	2500	94	103
-30	90	3850	89	3120	89	2910	89	2710	89	2520	93	103
-25	90	3950	88	3130	88	2920	88	2720	88	2540	93	102
-20	91	4120	88	3240	88	3040	89	2850	89	2660	93	102
-15	92	4300	89	3380	89	3180	89	2980	90	2790	93	102
-10	92	4490	90	3540	90	3330	90	3120	90	2920	94	102
-5	93	4710	91	3710	91	3490	91	3280	91	3070	94	102
0	94	4930	91	3890	92	3670	92	3440	92	3230	94	101
5	95	5180	92	4080	92	3840	93	3610	93	3390	95	101
10	95	5490	93	4300	93	4060	93	3820	93	3590	95	101
15	95	5850	94	4570	94	4310	94	4060	94	3810	95	101
20	96	6300	95	4880	95	4610	95	4340	95	4080	96	101
25	96	6820	95	5230	96	4940	96	4660	96	4380	96	101
29	97	7460	97	5630	97	5320	97	5010	97	4720	97	101
30	97	7660	97	5750	97	5430	97	5120	97	4820	97	101
31	97	7880	97	5870	97	5550	97	5230	97	4920	97	101

WEIGHT = 9000 LBS — VENR = 117 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	90	3720	90	3080	90	2870	90	2680	90	2490	93	103
-30	89	3750	89	3100	89	2890	89	2700	89	2510	92	103
-25	88	3760	88	3110	88	2900	88	2700	88	2510	92	102
-20	87	3810	87	3090	87	2880	87	2680	87	2490	91	100
-15	88	3940	85	3080	86	2890	86	2710	86	2530	90	99
-10	89	4110	86	3220	86	3020	87	2830	87	2650	91	99
-5	90	4300	87	3380	87	3170	87	2970	88	2780	91	99
0	90	4500	88	3540	88	3320	88	3120	88	2920	91	99
5	91	4700	89	3700	89	3480	89	3270	89	3060	92	99
10	92	4920	89	3880	89	3650	90	3430	90	3210	92	99
15	92	5220	90	4100	90	3860	90	3630	91	3410	92	99
20	93	5600	91	4380	91	4130	91	3880	91	3640	93	99
25	93	6040	92	4690	92	4420	92	4160	92	3900	93	98
30	94	6700	93	5120	93	4830	93	4550	93	4270	94	98
31	94	6870	93	5230	94	4930	94	4650	94	4370	94	98

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	90	3700	90	3060	90	2860	90	2670	90	2480	92	103
-30	89	3720	89	3080	89	2880	89	2690	89	2500	91	102
-25	88	3730	88	3090	88	2890	88	2690	88	2500	91	101
-20	87	3710	87	3070	87	2860	87	2670	87	2480	90	100
-15	85	3690	85	3040	85	2840	85	2650	85	2460	89	99
-10	85	3760	84	3020	84	2820	84	2620	84	2430	88	97
-5	86	3910	83	3050	83	2870	84	2680	84	2500	88	97
0	86	4080	84	3200	84	3000	84	2810	85	2620	88	96
5	87	4270	85	3340	85	3140	85	2940	85	2750	88	96
10	88	4460	85	3500	86	3290	86	3080	86	2880	89	96
15	89	4670	86	3670	86	3450	87	3240	87	3030	89	96
20	89	4970	87	3900	87	3670	88	3450	88	3230	89	96
25	90	5330	88	4170	88	3930	88	3690	89	3460	90	96
30	90	5870	89	4550	89	4280	90	4030	90	3780	90	96
31	90	6010	90	4640	90	4370	90	4110	90	3850	90	96

Figure 4-23 (Sheet 24)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
12,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS											VENR = 139 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-35	104	7030	106	5000	106	4730	107	4460	107	4200	108 115
-30	103	7400	107	5160	107	4880	107	4610	107	4340	109 115
-25	102	7970	107	5410	107	5120	107	4840	108	4560	109 115
-20	101	8670	108	5720	108	5420	108	5130	108	4840	109 115
-15	100	9450	109	6070	109	5750	109	5440	109	5140	109 115
-11	99	10190	109	6370	109	6040	110	5720	110	5400	110 115
-10	99	10390	109	6450	110	6120	110	5790	110	5470	110 115
-9	99	10590	109	6530	110	6190	110	5870	110	5550	110 115

WEIGHT = 12200 LBS											VENR = 138 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-35	104	6630	105	4880	105	4610	106	4340	106	4090	108 114
-30	103	7000	106	5030	106	4760	106	4490	106	4230	108 114
-25	102	7530	106	5260	106	4970	106	4700	107	4430	108 114
-20	101	8190	107	5560	107	5270	107	4980	107	4700	108 114
-15	101	8910	108	5890	108	5580	108	5280	108	4980	108 114
-10	100	9780	108	6260	109	5930	109	5620	109	5310	109 114
-9	100	9970	109	6340	109	6010	109	5690	109	5370	109 114
-6	99	10600	109	6590	109	6250	109	5910	109	5590	109 114

WEIGHT = 12000 LBS											VENR = 137 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-35	105	6170	104	4730	104	4470	104	4210	105	3960	107 113
-30	104	6530	104	4880	104	4610	105	4350	105	4100	107 113
-25	103	7050	105	5100	105	4820	105	4550	105	4290	107 113
-20	102	7650	106	5380	106	5090	106	4810	106	4540	107 113
-15	102	8310	106	5690	106	5390	107	5100	107	4810	107 113
-10	101	9110	107	6050	107	5730	107	5420	107	5120	108 113
-6	100	9860	108	6360	108	6030	108	5710	108	5390	108 113
-5	100	10070	108	6440	108	6110	108	5780	108	5460	108 113
-4	100	10280	108	6530	108	6190	108	5860	108	5540	108 113

WEIGHT = 11800 LBS											VENR = 136 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-35	105	5800	103	4590	103	4330	103	4080	103	3840	105 112
-30	105	6050	103	4730	103	4470	103	4220	104	3970	106 112
-25	104	6540	104	4950	104	4670	104	4410	104	4150	106 112
-20	103	7140	104	5210	105	4920	105	4650	105	4390	106 112
-15	102	7750	105	5500	105	5210	105	4920	105	4640	106 112
-10	102	8470	106	5840	106	5530	106	5230	106	4930	107 112
-5	101	9350	107	6220	107	5890	107	5570	107	5270	107 112
-4	101	9540	107	6300	107	5970	107	5650	107	5340	107 112
0	100	10350	108	6630	108	6280	108	5950	108	5620	108 112

WEIGHT = 11600 LBS											VENR = 134 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-35	104	5600	102	4450	102	4210	102	3960	102	3720	104 112
-30	105	5790	102	4590	102	4330	102	4080	102	3850	105 112
-25	105	6090	102	4790	103	4530	103	4270	103	4020	105 111
-20	104	6590	103	5030	103	4760	103	4490	104	4230	105 111
-15	103	7180	104	5320	104	5030	104	4750	104	4480	105 111
-10	102	7850	105	5640	105	5340	105	5040	105	4760	106 111
-5	102	8660	105	6000	106	5680	106	5370	106	5070	106 111
0	101	9580	106	6390	106	6060	106	5730	106	5410	106 111
2	100	9970	107	6550	107	6210	107	5880	107	5550	107 111

WEIGHT = 11400 LBS											VENR = 133 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-35	103	5430	100	4320	100	4070	101	3840	101	3600	103 111
-30	104	5590	101	4450	101	4200	101	3960	101	3720	104 111
-25	104	5870	101	4650	101	4390	101	4130	102	3890	104 111
-20	104	6220	102	4880	102	4610	102	4340	102	4090	104 110
-15	104	6610	103	5140	103	4860	103	4590	103	4320	104 110
-10	103	7240	103	5440	103	5150	104	4860	104	4590	105 110
-5	103	7980	104	5780	104	5480	104	5180	104	4880	105 110
0	102	8830	105	6160	105	5830	105	5520	105	5210	105 110
2	101	9190	105	6310	105	5980	105	5660	105	5350	105 110
5	101	9760	106	6550	106	6210	106	5870	106	5550	106 110
7	101	10170	106	6710	106	6370	106	6020	106	5690	106 110

Figure 4-23 (Sheet 25)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
12,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	101	5110	98	4050	98	3820	98	3590	98	3370	101	109
-30	101	5260	98	4180	98	3940	98	3710	99	3480	101	109
-25	102	5480	99	4360	99	4110	99	3870	99	3640	102	109
-20	102	5780	99	4570	99	4310	100	4060	100	3820	102	109
-15	102	6110	100	4790	100	4530	100	4270	100	4020	102	109
-10	102	6490	101	5070	101	4790	101	4520	101	4260	102	108
-5	103	6920	102	5380	102	5090	102	4800	102	4530	103	108
0	103	7410	102	5710	102	5410	103	5110	103	4820	103	108
5	103	8120	103	6070	103	5750	103	5440	103	5130	103	108
7	103	8480	103	6220	104	5890	104	5570	104	5260	104	108
10	102	9070	104	6460	104	6120	104	5790	104	5470	104	108
14	101	9950	104	6810	104	6460	104	6110	104	5770	104	108

WEIGHT = 10500 LBS VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	97	4730	94	3740	95	3520	95	3300	95	3090	99	107
-30	97	4860	95	3850	95	3620	95	3410	95	3190	99	107
-25	98	5060	95	4020	96	3780	96	3560	96	3340	99	107
-20	99	5300	96	4210	96	3970	96	3730	97	3510	99	106
-15	100	5550	97	4410	97	4160	97	3920	97	3680	100	106
-10	100	5880	97	4620	98	4360	98	4110	98	3870	100	106
-5	100	6260	98	4900	98	4630	99	4370	99	4110	100	106
0	100	6670	99	5200	99	4910	99	4640	99	4370	100	106
5	101	7110	100	5510	100	5210	100	4920	100	4640	101	106
10	101	7630	101	5850	101	5540	101	5230	101	4930	101	106
14	101	8120	101	6170	101	5840	101	5520	101	5210	101	106
15	101	8250	101	6250	101	5920	101	5590	101	5280	101	106
20	102	9010	102	6700	102	6340	102	6000	102	5660	102	106

WEIGHT = 10000 LBS VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	94	4360	91	3430	91	3230	91	3030	92	2830	96	105
-30	94	4480	91	3540	91	3330	92	3120	92	2920	96	104
-25	95	4670	92	3690	92	3470	92	3260	93	3050	96	104
-20	95	4880	93	3860	93	3640	93	3420	93	3200	96	104
-15	96	5100	93	4040	94	3810	94	3580	94	3360	97	104
-10	97	5340	94	4240	94	3990	95	3760	95	3530	97	104
-5	97	5650	95	4450	95	4200	95	3960	95	3720	97	104
0	98	6010	96	4720	96	4450	96	4200	96	3950	98	104
5	98	6390	96	4990	97	4720	97	4450	97	4190	98	104
10	98	6810	97	5290	97	5000	97	4720	97	4440	98	103
15	99	7320	98	5640	98	5330	98	5030	98	4740	99	103
20	99	7940	99	6040	99	5710	99	5390	99	5080	99	103
25	99	8710	99	6500	99	6150	99	5810	99	5480	99	103
26	100	8970	100	6630	100	6280	100	5940	100	5600	100	103

WEIGHT = 9500 LBS VENR = 121 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	90	4020	88	3190	88	2980	88	2770	88	2580	93	102
-30	90	4120	88	3240	88	3040	88	2850	88	2670	93	102
-25	91	4290	88	3370	89	3170	89	2970	89	2780	93	102
-20	92	4480	89	3530	89	3320	90	3110	90	2920	93	102
-15	93	4680	90	3690	90	3480	90	3260	91	3060	94	102
-10	93	4900	91	3870	91	3640	91	3420	91	3210	94	102
-5	94	5130	91	4060	92	3830	92	3600	92	3370	94	101
0	95	5410	92	4260	92	4020	93	3780	93	3560	95	101
5	95	5730	93	4510	93	4260	93	4010	93	3770	95	101
10	95	6090	94	4780	94	4510	94	4250	94	3990	95	101
15	96	6520	94	5080	95	4800	95	4520	95	4250	96	101
20	96	7010	95	5420	95	5120	96	4830	96	4540	96	101
25	96	7640	96	5830	96	5510	96	5200	96	4890	96	101
26	97	7850	97	5950	97	5620	97	5300	97	5000	97	101
29	97	8540	97	6340	97	5990	97	5660	97	5330	97	101

WEIGHT = 9000 LBS VENR = 117 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	88	3830	88	3160	88	2950	88	2750	88	2560	92	102
-30	88	3870	87	3190	87	2980	87	2780	87	2580	91	101
-25	87	3950	86	3180	86	2970	86	2770	86	2570	90	100
-20	88	4100	85	3220	86	3020	86	2830	86	2650	90	99
-15	89	4280	86	3360	86	3160	87	2960	87	2770	91	99
-10	90	4470	87	3520	87	3310	87	3100	88	2900	91	99
-5	91	4680	88	3690	88	3470	88	3260	88	3050	91	99
0	91	4900	89	3870	89	3640	89	3420	89	3200	92	99
5	92	5130	89	4060	90	3820	90	3590	90	3370	92	99
10	92	5440	90	4290	90	4040	90	3800	91	3570	92	99
15	93	5800	91	4560	91	4300	91	4040	91	3800	93	99
20	93	6210	92	4850	92	4580	92	4310	92	4050	93	98
25	93	6710	93	5200	93	4900	93	4620	93	4340	93	98
29	94	7420	94	5640	94	5330	94	5020	94	4720	94	98

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	88	3800	88	3140	88	2940	88	2740	88	2550	91	101
-30	88	3830	88	3170	88	2960	88	2760	88	2570	90	101
-25	86	3820	86	3160	86	2950	86	2750	86	2560	89	100
-20	85	3820	85	3140	85	2930	85	2730	85	2530	89	98
-15	85	3900	83	3120	83	2910	83	2710	83	2510	88	97
-10	86	4070	83	3190	83	2990	84	2800	84	2610	88	97
-5	87	4250	84	3330	84	3130	84	2930	85	2740	88	96
0	87	4450	85	3490	85	3280	85	3080	85	2880	89	96
5	88	4650	86	3660	86	3440	86	3220	86	3020	89	96
10	89	4860	86	3830	87	3600	87	3380	87	3170	89	96
15	89	5140	87	4060	87	3820	87	3590	88	3370	89	96
20	90	5490	88	4320	88	4070	88	3830	88	3590	90	96
25	90	5910	89	4620	89	4360	89	4100	89	3850	90	96
29	91	6460	90	5000	90	4710	90	4430	90	4160	91	95

Figure 4-23 (Sheet 26)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
13,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS											VENR = 140 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	102	8030	107	5460	107	5170	107	4880	107	4610	109	115
-30	101	8490	107	5670	108	5370	108	5080	108	4790	109	115
-25	100	9230	108	6000	108	5690	108	5380	108	5080	109	115
-20	99	10100	109	6370	109	6040	109	5720	109	5410	109	115
-17	98	10670	108	6630	109	6260	110	5930	110	5610	110	115
-15	98	11060	108	6930	110	6420	110	6080	110	5750	110	115

WEIGHT = 12200 LBS											VENR = 139 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	102	7590	106	5320	106	5030	106	4750	106	4470	108	114
-30	101	8020	106	5510	106	5220	107	4930	107	4650	108	114
-25	100	8720	107	5830	107	5520	107	5220	107	4930	108	114
-20	100	9520	108	6190	108	5860	108	5550	108	5240	109	114
-15	99	10420	109	6560	109	6220	109	5890	109	5570	109	114
-12	98	11030	108	6810	109	6460	109	6120	109	5780	109	114

WEIGHT = 12000 LBS											VENR = 137 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	103	7090	105	5160	105	4880	105	4600	105	4330	107	113
-30	102	7510	105	5330	105	5040	105	4770	106	4500	107	113
-25	101	8150	106	5640	106	5340	106	5050	106	4770	107	113
-20	100	8880	107	5980	107	5660	107	5360	107	5060	107	113
-15	100	9720	107	6340	107	6010	107	5690	108	5370	108	113
-12	99	10270	108	6570	108	6230	108	5900	108	5580	108	113
-10	99	10690	108	6740	108	6390	108	6050	108	5720	108	113
-9	99	10910	108	6830	108	6470	108	6130	108	5800	108	113

WEIGHT = 11800 LBS											VENR = 136 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	104	6590	104	5000	104	4730	104	4460	104	4200	106	112
-30	103	7000	104	5170	104	4890	104	4610	104	4350	106	112
-25	102	7610	105	5450	105	5160	105	4880	105	4600	106	112
-20	101	8280	105	5780	105	5470	106	5170	106	4880	106	112
-15	101	9040	106	6120	106	5800	106	5490	106	5180	107	112
-10	100	9930	107	6500	107	6160	107	5840	107	5510	107	112
-9	99	10130	107	6590	107	6250	107	5910	107	5590	107	112
-7	99	10580	107	6760	107	6410	107	6070	107	5740	107	112

WEIGHT = 11600 LBS											VENR = 135 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	105	6150	102	4850	102	4580	103	4320	103	4060	105	111
-30	104	6480	103	5010	103	4740	103	4470	103	4210	105	111
-25	103	7060	103	5270	103	4990	104	4710	104	4440	105	111
-20	102	7710	104	5580	104	5280	104	4990	104	4710	105	111
-15	101	8390	105	5910	105	5590	105	5290	105	4990	106	111
-10	101	9210	106	6270	106	5940	106	5620	106	5310	106	111
-7	100	9790	106	6520	106	6180	106	5850	106	5530	106	111
-5	100	10200	106	6690	107	6350	107	6010	107	5680	107	111
-4	100	10430	107	6780	107	6430	107	6090	107	5750	107	111

WEIGHT = 11400 LBS											VENR = 133 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	104	5930	101	4700	101	4440	101	4180	102	3930	104	111
-30	104	6140	101	4860	102	4590	102	4320	102	4070	104	111
-25	104	6510	102	5100	102	4820	102	4550	102	4290	104	110
-20	103	7110	103	5390	103	5100	103	4820	103	4540	104	110
-15	102	7770	103	5700	104	5400	104	5100	104	4810	105	110
-10	101	8510	104	6050	104	5730	104	5420	105	5110	105	110
-5	101	9430	105	6450	105	6110	105	5780	105	5460	105	110
-4	100	9630	105	6530	105	6190	105	5860	105	5540	105	110
0	100	10460	106	6880	106	6520	106	6170	106	5840	106	110
1	100	10680	106	6960	106	6600	106	6250	106	5910	106	110

Figure 4-23 (Sheet 27)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
13,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS — VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	101	5540	99	4410	99	4160	99	3920	99	3680	102	109
-30	102	5710	99	4550	99	4300	99	4050	99	3810	102	109
-25	102	6040	99	4770	100	4510	100	4250	100	4000	102	109
-20	102	6400	100	5020	100	4750	100	4480	101	4220	102	109
-15	103	6790	101	5310	101	5020	101	4740	101	4470	103	108
-10	103	7220	102	5620	102	5320	102	5030	102	4740	103	108
-5	103	7880	102	5980	103	5670	103	5360	103	5050	103	108
0	102	8790	103	6370	103	6040	103	5710	104	5390	104	108
1	102	8980	103	6450	104	6110	104	5780	104	5460	104	108
5	101	9760	104	6780	104	6420	104	6080	104	5750	104	108
8	100	10410	104	7040	104	6670	104	6320	104	5970	104	108

WEIGHT = 10500 LBS — VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	98	5120	95	4060	95	3830	96	3600	96	3380	99	107
-30	98	5280	96	4190	96	3950	96	3720	96	3490	99	107
-25	99	5530	96	4400	96	4150	97	3900	97	3670	99	106
-20	100	5810	97	4610	97	4350	97	4090	97	3850	100	106
-15	100	6150	98	4840	98	4570	98	4310	98	4060	100	106
-10	100	6520	98	5120	98	4840	99	4570	99	4300	100	106
-5	100	6960	99	5440	99	5150	99	4860	99	4580	100	106
0	101	7450	100	5780	100	5470	100	5170	100	4870	101	106
5	101	7980	101	6140	101	5810	101	5490	101	5180	101	106
8	101	8340	101	6370	101	6040	101	5710	101	5390	101	106
10	101	8600	101	6540	101	6190	101	5860	101	5530	101	106
15	102	9340	102	6980	102	6610	102	6260	102	5910	102	106

WEIGHT = 10000 LBS — VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	94	4720	92	3730	92	3510	92	3290	92	3090	96	104
-30	95	4870	92	3850	92	3620	93	3400	93	3190	96	104
-25	96	5090	93	4030	93	3800	93	3570	93	3350	96	104
-20	96	5320	94	4230	94	3980	94	3750	94	3520	97	104
-15	97	5560	94	4430	94	4180	95	3930	95	3690	97	104
-10	97	5880	95	4650	95	4390	95	4140	95	3890	97	104
-5	98	6270	96	4940	96	4660	96	4400	96	4140	98	104
0	98	6680	97	5240	97	4950	97	4670	97	4400	98	104
5	98	7110	97	5550	97	5250	97	4950	98	4670	98	103
10	99	7620	98	5900	98	5580	98	5270	98	4970	99	103
15	99	8220	99	6290	99	5950	99	5620	99	5300	99	103
20	99	8930	99	6720	99	6360	99	6020	99	5680	99	103
22	100	9250	100	6900	100	6540	100	6190	100	5840	100	103

WEIGHT = 9500 LBS — VENR = 121 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	91	4340	88	3410	88	3210	89	3010	89	2810	93	102
-30	91	4470	89	3520	89	3310	89	3110	89	2910	93	102
-25	92	4670	89	3690	90	3470	90	3250	90	3050	94	102
-20	93	4880	90	3860	90	3630	90	3410	91	3200	94	102
-15	94	5100	91	4040	91	3810	91	3580	91	3360	94	102
-10	94	5340	92	4240	92	3990	92	3750	92	3520	94	101
-5	95	5640	92	4460	92	4210	93	3960	93	3730	95	101
0	95	5990	93	4730	93	4460	93	4210	94	3950	95	101
5	95	6360	94	5010	94	4730	94	4460	94	4190	95	101
10	96	6780	95	5310	95	5010	95	4730	95	4450	96	101
15	96	7260	95	5640	95	5330	95	5030	96	4740	96	101
20	96	7840	96	6020	96	5700	96	5380	96	5070	96	101
22	97	8100	96	6190	97	5850	97	5530	97	5210	97	101
25	97	8740	97	6560	97	6210	97	5870	97	5530	97	101
26	97	9000	97	6700	97	6340	97	5990	97	5650	97	101

WEIGHT = 9000 LBS — VENR = 117 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	87	4020	87	3260	87	3040	87	2830	87	2630	91	100
-30	87	4100	86	3280	86	3060	86	2850	86	2650	90	100
-25	88	4270	86	3360	86	3150	86	2960	86	2770	91	99
-20	89	4460	86	3510	87	3300	87	3090	87	2900	91	99
-15	90	4660	87	3670	87	3450	88	3240	88	3040	91	99
-10	91	4870	88	3850	88	3620	88	3400	89	3180	91	99
-5	91	5110	89	4040	89	3800	89	3570	89	3350	92	99
0	92	5360	90	4250	90	4000	90	3770	90	3540	92	99
5	92	5680	90	4490	90	4240	91	3990	91	3750	92	99
10	93	6030	91	4760	91	4490	91	4230	91	3980	93	99
15	93	6430	92	5050	92	4770	92	4500	92	4230	93	98
20	93	6890	92	5380	93	5080	93	4790	93	4500	93	98
25	94	7610	94	5840	94	5520	94	5210	94	4900	94	98
26	94	7820	94	5970	94	5640	94	5320	94	5010	94	98
27	94	8040	94	6100	94	5760	94	5440	94	5120	94	98

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	87	3910	87	3230	87	3020	87	2810	87	2620	90	100
-30	86	3930	86	3250	86	3040	86	2830	86	2630	89	99
-25	85	3960	85	3240	85	3020	85	2820	85	2610	88	98
-20	85	4060	83	3220	83	3000	83	2800	83	2610	88	97
-15	86	4240	83	3330	83	3120	84	2930	84	2730	88	97
-10	87	4420	84	3470	84	3260	85	3060	85	2860	88	96
-5	87	4630	85	3640	85	3430	85	3210	86	3010	89	96
0	88	4850	86	3820	86	3590	86	3370	86	3160	89	96
5	89	5070	86	4010	87	3780	87	3550	87	3330	89	96
10	90	5350	87	4240	87	4000	88	3760	88	3530	90	96
15	90	5690	88	4500	88	4240	88	3990	88	3750	90	96
20	90	6070	89	4790	89	4510	89	4250	89	3990	90	96
25	91	6640	90	5180	90	4880	90	4600	90	4320	91	95
27	91	6970	90	5390	90	5090	91	4790	91	4500	91	95

Figure 4-23 (Sheet 28)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
14,000 FEET

CONDITIONS: ANTI-ICE OFF

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS										VENR = 140 KIAS	
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	100	9190	108	6010	108	5700	108	5390	108	5090	109	115
-30	99	9860	108	6300	108	5980	109	5660	109	5350	109	115
-25	98	10790	108	6770	109	6350	109	6010	109	5690	110	115
-24	98	10990	108	6910	109	6430	109	6090	110	5760	110	115
-21	97	11620	107	7350	110	6670	110	6320	110	5980	110	115
-18												

WEIGHT = 12200 LBS										VENR = 139 KIAS	
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	101	8690	107	5840	107	5540	107	5240	107	4940	108	114
-30	100	9300	107	6120	107	5800	107	5490	108	5190	108	114
-25	99	10170	108	6500	108	6160	108	5830	108	5510	109	114
-21	98	10950	108	6820	109	6470	109	6130	109	5790	109	114
-20	98	11160	108	6940	109	6550	109	6200	109	5870	109	114
-19	98	11360	108	7090	109	6630	109	6280	109	5940	109	114

WEIGHT = 12000 LBS										VENR = 138 KIAS	
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	101	8130	106	5650	106	5350	106	5060	106	4780	107	113
-30	100	8700	106	5920	106	5610	106	5310	106	5010	107	113
-25	100	9490	107	6270	107	5950	107	5630	107	5320	108	113
-20	99	10400	108	6660	108	6320	108	5980	108	5660	108	113
-19	98	10600	108	6740	108	6400	108	6060	108	5730	108	113
-16	98	11200	108	6990	108	6630	108	6280	108	5940	108	113

WEIGHT = 11800 LBS										VENR = 136 KIAS	
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	102	7590	104	5470	104	5180	105	4890	105	4610	106	112
-30	101	8120	105	5720	105	5420	105	5130	105	4840	106	112
-25	100	8840	105	6060	106	5740	106	5430	106	5130	107	112
-20	100	9680	106	6430	106	6100	106	5770	107	5450	107	112
-16	99	10410	107	6740	107	6400	107	6060	107	5730	107	112
-15	99	10610	107	6820	107	6470	107	6130	107	5800	107	112
-13	98	11020	107	6990	107	6630	107	6280	107	5940	107	112

WEIGHT = 11600 LBS										VENR = 135 KIAS	
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	103	7050	103	5290	103	5000	103	4720	103	4450	105	111
-30	102	7570	104	5530	104	5240	104	4950	104	4670	105	111
-25	101	8240	104	5850	104	5550	104	5240	105	4950	106	111
-20	100	8990	105	6200	105	5880	105	5560	105	5250	106	111
-15	100	9850	106	6580	106	6240	106	5910	106	5580	106	111
-13	99	10210	106	6740	106	6390	106	6050	106	5720	106	111
-10	99	10870	106	7000	107	6640	107	6290	107	5950	107	111

WEIGHT = 11400 LBS										VENR = 134 KIAS	
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS
-35	104	6520	102	5120	102	4840	102	4570	102	4300	104	110
-30	103	6990	102	5340	102	5060	103	4780	103	4500	104	110
-25	102	7630	103	5650	103	5350	103	5060	103	4770	104	110
-20	101	8340	104	5990	104	5670	104	5360	104	5060	105	110
-15	100	9110	104	6350	104	6010	105	5690	105	5380	105	110
-10	100	10040	105	6750	105	6400	105	6060	105	5730	105	110
-5	99	11170	106	7200	106	6830	106	6470	106	6120	106	110

Figure 4-23 (Sheet 29)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
14,000 FEET

CONDITIONS: ANTI-ICE OFF
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	102	6050	99	4800	99	4530	100	4270	100	4030	102	109
-30	102	6330	100	5000	100	4720	100	4450	100	4190	102	109
-25	102	6700	100	5270	101	4980	101	4700	101	4430	102	109
-20	103	7110	101	5570	101	5270	101	4980	101	4700	103	108
-15	102	7670	102	5900	102	5580	102	5280	102	4980	103	108
-10	102	8480	103	6260	103	5930	103	5610	103	5300	103	108
-5	101	9430	103	6680	104	6330	104	5990	104	5660	104	108
0	100	10480	104	7110	104	6740	104	6390	104	6040	104	108
2	100	10930	104	7290	104	6920	104	6550	104	6200	104	108

WEIGHT = 10500 LBS VENR = 127 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	99	5560	96	4420	96	4170	96	3930	97	3690	99	106
-30	99	5770	96	4600	97	4340	97	4090	97	3840	99	106
-25	100	6080	97	4820	97	4550	97	4290	98	4030	100	106
-20	100	6440	98	5080	98	4800	98	4530	98	4270	100	106
-15	100	6820	98	5370	99	5080	99	4800	99	4520	100	106
-10	100	7270	99	5690	99	5390	99	5090	100	4800	100	106
-5	101	7780	100	6050	100	5730	100	5420	100	5110	101	106
0	101	8360	101	6440	101	6100	101	5770	101	5450	101	106
2	101	8610	101	6600	101	6260	101	5920	101	5590	101	106
5	102	9020	102	6860	102	6500	102	6150	102	5810	102	106
9	101	9940	102	7210	102	6840	102	6470	102	6120	102	106

WEIGHT = 10000 LBS VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	95	5120	93	4060	93	3820	93	3590	93	3370	96	104
-30	96	5310	93	4220	93	3970	93	3740	94	3510	97	104
-25	97	5550	94	4420	94	4170	94	3920	94	3680	97	104
-20	97	5820	94	4630	95	4360	95	4120	95	3870	97	104
-15	97	6160	95	4880	95	4610	95	4340	96	4090	97	104
-10	98	6530	96	5160	96	4880	96	4600	96	4340	98	104
-5	98	6970	97	5480	97	5180	97	4890	97	4610	98	104
0	98	7440	97	5820	97	5500	98	5200	98	4900	98	103
5	99	7980	98	6180	98	5850	98	5530	98	5220	99	103
9	99	8450	99	6500	99	6150	99	5820	99	5490	99	103
10	99	8580	99	6580	99	6230	99	5890	99	5560	99	103
15	99	9260	99	7000	99	6630	99	6270	99	5930	99	103
17	100	9570	100	7180	100	6800	100	6440	100	6080	100	103

WEIGHT = 9500 LBS VENR = 121 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	92	4700	89	3710	89	3490	89	3270	90	3070	93	102
-30	92	4870	90	3850	90	3630	90	3410	90	3190	94	102
-25	93	5090	90	4030	90	3800	91	3570	91	3350	94	102
-20	94	5330	91	4220	91	3980	91	3740	92	3510	94	102
-15	94	5570	92	4430	92	4170	92	3930	92	3690	95	101
-10	95	5870	92	4670	93	4400	93	4150	93	3900	95	101
-5	95	6240	93	4950	93	4670	93	4410	94	4150	95	101
0	95	6640	94	5250	94	4960	94	4680	94	4400	95	101
5	96	7080	95	5560	95	5260	95	4960	95	4670	96	101
10	96	7570	95	5900	95	5580	96	5270	96	4970	96	101
15	96	8120	96	6270	96	5940	96	5610	96	5290	96	101
17	97	8360	96	6430	96	6090	97	5750	97	5430	97	101
20	97	8760	97	6680	97	6330	97	5980	97	5640	97	101
23	97	9480	97	7090	97	6710	97	6350	97	5990	97	101

WEIGHT = 9000 LBS VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	88	4300	85	3380	86	3170	86	2970	86	2780	90	99
-30	88	4450	86	3510	86	3290	86	3090	87	2890	91	99
-25	89	4650	87	3670	87	3450	87	3240	87	3030	91	99
-20	90	4860	87	3840	88	3610	88	3390	88	3180	91	99
-15	91	5080	88	4020	88	3780	88	3550	89	3330	92	99
-10	91	5320	89	4210	89	3970	89	3730	89	3500	92	99
-5	92	5590	90	4450	90	4190	90	3950	90	3710	92	99
0	92	5930	90	4710	90	4440	91	4180	91	3930	92	99
5	93	6290	91	4990	91	4710	91	4440	91	4170	93	98
10	93	6700	92	5280	92	4990	92	4710	92	4430	93	98
15	93	7140	92	5600	93	5290	93	4990	93	4700	93	98
20	94	7660	93	5960	93	5630	93	5310	93	5010	94	98
23	94	8230	94	6310	94	5970	94	5630	94	5310	94	98
25	94	8710	94	6590	94	6230	94	5890	94	5550	94	98

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-35	85	4020	85	3320	85	3100	85	2890	85	2690	89	98
-30	85	4100	84	3330	84	3110	84	2900	84	2690	88	97
-25	85	4230	83	3320	83	3120	83	2920	83	2730	88	97
-20	86	4420	84	3470	84	3260	84	3060	84	2860	88	97
-15	87	4610	84	3630	84	3410	85	3200	85	2990	88	96
-10	88	4820	85	3800	85	3570	85	3350	86	3140	89	96
-5	88	5050	86	3990	86	3750	86	3520	86	3300	89	96
0	89	5290	87	4200	87	3960	87	3720	87	3490	89	96
5	90	5590	87	4450	87	4190	88	3940	88	3700	90	96
10	90	5920	88	4710	88	4440	88	4180	88	3920	90	96
15	90	6290	89	4980	89	4700	89	4430	89	4160	90	96
20	90	6710	89	5290	89	4990	90	4700	90	4420	90	96
25	91	7530	91	5820	91	5500	91	5180	91	4880	91	95

Figure 4-23 (Sheet 30)

TAKEOFF FIELD LENGTH - FEET, FLAPS 15° (DRY RUNWAY OVER A 35 FOOT SCREEN HEIGHT) (ANTI-ICE ON)

Determine takeoff field length, V_1, V_R, V_2 and V_{ENR} from Figure 4-25. If the runway has a gradient, adjust V_1 and takeoff field length using figure 4-24.

If the required distance is greater than the available distance, the airplane weight must be reduced until distance required is less than or equal to distance available.

TAKEOFF FIELD LENGTH WITH RUNWAY GRADIENT FLAPS 15°, ANTI-ICE ON

ZERO RUNWAY GRADIENT	UPHILL GRADIENT SHADED AND NON-SHADED				DOWNHILL GRADIENT SHADED		DOWNHILL GRADIENT NON-SHADED	
	2%	1.5%	1%	0.5%	-1%	-2%	-1%	-2%
	V_1*	V_1*	V_1*	V_1*	V_1 - 3 Knots	V_1 - 5 Knots	V_1 + 1** Knot	V_1 + 1** Knot
1800	2100	2000	1950	1900	1800	1700	1900	1950
2000	2450	2350	2200	2150	2050	1950	2150	2150
2200	2700	2550	2450	2350	2200	2200	2350	2350
2400	2950	2800	2650	2550	2400	2350	2550	2550
2600	3200	3050	2900	2750	2600	2600	2750	2750
2800	3500	3300	3100	3000	2800	2800	2950	2950
3000	3800	3550	3300	3200	3000	2950	3150	3150
3200	4150	3850	3550	3400	3200	3150	3350	3400
3400	4550	4200	3750	3650	3400	3350	3550	3600
3600	4950	4500	4000	3850	3600	3500	3750	3800
3800	5300	4800	4250	4100	3800	3700	3950	3950
4000	5650	5100	4450	4300	4000	3850	4150	4150
4200	5950	5350	4750	4550	4200	4050	4350	4350
4400	6350	5650	4950	4750	4400	4200	4550	4550
4600	6650	5900	5200	5000	4600	4400	4750	4800
4800	7000	6150	5450	5150	4800	4600	4950	4950
5000	7300	6400	5750	5350	5000	4750	5150	5150
5200	7600	6650	6000	5600	5150	4950	5350	5300
5400	7950	6950	6250	5850	5300	5100	5500	5450
5600	8300	7250	6550	6050	5550	5300	5650	5600
5800	8800	7600	6800	6300	5700	5400	5850	5800
6000	9250	8050	7100	6550	5900	5550	6000	5950
6200	9750	8450	7400	6750	6100	5750	6150	6100
6400	10300	8800	7700	7000	6250	5900	6300	6250
6600	10900	9200	8050	7250	6450	6100	6450	6350
6800	11250	9450	8250	7450	6600	6250	6550	6450
7000	11600	9700	8500	7700	6800	6400	6650	6550
7200	11900	10000	8750	7900	7000	6550	6750	6650
7400	12200	10250	9000	8100	7200	6700	6900	6700
7600	12500	10500	9250	8350	7350	6850	7000	6800
7800	12850	10800	9500	8550	7500	7000	7100	6900
8000	13100	11000	9700	8750	7650	7150	7200	7000
8200	13400	11300	9950	9000	7850	7250	7350	7050
8400	13700	11600	10100	9200	8000	7400	7450	7100
8600	14000	11900	10400	9400	8150	7550	7600	7200
8800	14300	12150	10700	9650	8300	7700	7750	7300
9000	14600	12450	10900	9850	8450	7800	7900	7400
9500	15300	13100	11500	10400	8850	8100	8250	7600
10000		13750	12100	11000	9200	8400	8650	7850
10500		14400	12700	11450	9550	8750	9050	8150
11000		15000	13250	12000	9900	9100	9400	8450
12000			14350	13050	10500	9800	10100	9150

* No V_1 adjustment necessary.
** If the adjusted V_1 is greater than V_R, the value of V_R must be used for V_1.

Figure 4-24

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
SEA LEVEL

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO

SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	108	4210	105	3170	106	2970	106	2770	106	2570	108	115
-15	108	4260	105	3230	106	3020	106	2820	106	2620	108	115
-10	108	4320	105	3280	106	3070	106	2870	106	2670	108	115
-5	108	4370	105	3330	105	3120	106	2920	106	2720	108	115
0	108	4480	105	3410	106	3200	106	2990	106	2790	108	115
5	108	4590	106	3490	106	3280	106	3060	106	2860	108	115
10	108	5110	107	3780	108	3550	108	3330	108	3110	108	115

WEIGHT = 12200 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	107	4090	104	3090	105	2890	105	2700	105	2510	107	114
-15	107	4140	104	3150	105	2940	105	2740	105	2550	107	114
-10	107	4190	104	3200	104	2990	105	2790	105	2600	107	114
-5	107	4250	104	3250	104	3040	105	2840	105	2650	107	114
0	107	4350	104	3330	105	3120	105	2910	105	2710	107	114
5	107	4450	105	3410	105	3190	105	2990	105	2780	107	114
10	108	4960	106	3680	106	3460	107	3240	107	3020	108	114

WEIGHT = 12000 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	106	3960	103	3010	103	2810	104	2620	104	2430	106	114
-15	106	4010	103	3060	103	2860	103	2660	104	2480	106	114
-10	106	4060	103	3110	103	2900	103	2710	104	2520	106	114
-5	106	4110	103	3150	103	2950	103	2760	104	2570	106	114
0	106	4210	103	3230	103	3020	104	2830	104	2630	106	113
5	106	4310	103	3310	104	3100	104	2900	104	2700	106	113
10	107	4790	105	3580	105	3360	105	3140	106	2930	107	113

WEIGHT = 11500 LBS — VENR = 133 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	103	3640	100	2790	100	2600	100	2420	101	2250	103	111
-15	103	3690	100	2840	100	2650	100	2470	101	2290	103	111
-10	103	3740	100	2880	100	2690	100	2510	101	2330	103	111
-5	103	3800	100	2930	100	2740	100	2550	100	2370	103	111
0	103	3880	100	3000	100	2800	100	2620	101	2430	103	111
5	103	3960	100	3070	100	2870	101	2680	101	2500	103	111
10	104	4380	102	3320	102	3110	102	2900	102	2700	104	111

WEIGHT = 11000 LBS — VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	100	3390	97	2590	97	2410	97	2240	97	2070	100	109
-15	100	3430	97	2630	97	2450	97	2280	97	2110	100	109
-10	100	3480	96	2670	97	2490	97	2320	97	2150	100	109
-5	100	3530	96	2710	97	2530	97	2360	97	2190	100	109
0	100	3610	97	2780	97	2590	97	2420	97	2240	101	109
5	100	3680	97	2840	97	2650	97	2470	98	2300	101	109
10	101	4010	99	3070	99	2870	99	2670	99	2490	101	109

WEIGHT = 10000 LBS — VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	93	2940	92	2370	92	2200	92	2030	92	1860	95	105
-15	93	2980	92	2410	92	2230	92	2060	92	1900	95	105
-10	93	3030	92	2450	92	2270	92	2100	92	1930	95	105
-5	93	3070	92	2490	92	2310	92	2140	92	1970	95	105
0	93	3120	92	2530	92	2350	92	2170	92	2010	95	105
5	93	3160	91	2570	91	2390	91	2210	91	2040	95	105
10	95	3400	92	2610	92	2430	92	2250	93	2090	96	104

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	92	2910	92	2360	92	2190	92	2020	92	1860	94	105
-15	92	2960	92	2400	92	2230	92	2060	92	1900	94	105
-10	92	3000	92	2440	92	2270	92	2100	92	1930	94	105
-5	92	3040	92	2480	92	2300	92	2130	92	1970	94	105
0	92	3090	92	2520	92	2340	92	2170	92	2000	93	104
5	91	3130	91	2560	91	2380	91	2210	91	2040	93	104
10	88	3170	88	2600	88	2420	88	2240	88	2080	91	101

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-20	93	2910	93	2370	93	2200	93	2030	93	1870	93	105
-15	93	2960	93	2410	93	2230	93	2070	93	1910	93	105
-10	93	3000	93	2450	93	2270	93	2100	93	1940	93	105
-5	92	3040	92	2480	92	2310	92	2140	92	1980	93	105
0	92	3090	92	2520	92	2350	92	2180	92	2010	92	104
5	92	3130	92	2560	92	2390	92	2210	92	2050	92	104
10	88	3170	88	2600	88	2420	88	2250	88	2080	90	101

Figure 4-25 (Sheet 1 of 15)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
1000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS					VENR = 138 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	108	4360	106	3300	106	3090	106	2880	106	2690	108	115	
-15	108	4410	105	3350	106	3140	106	2930	106	2730	108	115	
-10	108	4470	105	3410	106	3190	106	2990	106	2780	108	115	
-5	108	4550	105	3470	106	3260	106	3050	106	2840	108	115	
0	108	4670	106	3560	106	3340	106	3130	106	2920	108	115	
5	108	4940	106	3730	107	3500	107	3280	107	3060	108	115	
10	109	5540	108	4040	108	3800	108	3560	109	3330	109	115	

WEIGHT = 12200 LBS					VENR = 137 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	107	4240	104	3220	105	3010	105	2810	105	2620	107	114	
-15	107	4290	104	3270	105	3060	105	2860	105	2660	107	114	
-10	107	4340	104	3320	105	3110	105	2910	105	2710	107	114	
-5	107	4420	104	3390	105	3170	105	2970	105	2770	107	114	
0	107	4530	105	3470	105	3260	105	3050	105	2840	107	114	
5	107	4800	105	3640	106	3410	106	3190	106	2980	107	114	
10	108	5370	107	3940	107	3700	107	3470	108	3240	108	114	

WEIGHT = 12000 LBS					VENR = 136 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	106	4100	103	3120	103	2920	104	2730	104	2540	106	113	
-15	106	4150	103	3180	103	2970	104	2770	104	2580	106	113	
-10	106	4200	103	3230	103	3020	104	2820	104	2630	106	113	
-5	106	4280	103	3290	103	3080	104	2880	104	2680	106	113	
0	106	4380	103	3370	104	3160	104	2960	104	2760	106	113	
5	106	4640	104	3530	104	3310	105	3100	105	2890	106	113	
10	107	5180	106	3820	106	3590	106	3360	106	3140	107	113	

WEIGHT = 11500 LBS					VENR = 133 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	103	3770	100	2900	100	2710	101	2520	101	2340	103	111	
-15	103	3820	100	2950	100	2750	100	2570	101	2390	103	111	
-10	103	3870	100	2990	100	2800	100	2610	101	2430	103	111	
-5	103	3940	100	3050	100	2860	100	2670	101	2480	103	111	
0	103	4030	100	3130	100	2930	101	2730	101	2550	103	111	
5	104	4250	101	3270	101	3070	101	2860	102	2670	104	111	
10	104	4730	103	3540	103	3320	103	3110	103	2900	104	111	

WEIGHT = 11000 LBS					VENR = 130 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	100	3500	97	2690	97	2500	97	2330	98	2160	101	109	
-15	100	3550	97	2730	97	2550	97	2370	97	2200	101	109	
-10	100	3600	97	2770	97	2590	97	2410	97	2240	101	109	
-5	100	3660	97	2830	97	2640	97	2460	97	2290	101	109	
0	100	3750	97	2890	97	2710	97	2520	98	2350	101	109	
5	101	3910	98	3030	98	2830	98	2640	98	2460	101	109	
10	102	4310	99	3270	100	3060	100	2860	100	2660	102	109	

WEIGHT = 10000 LBS					VENR = 125 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	93	3010	92	2430	92	2250	92	2080	92	1910	95	105	
-15	93	3050	92	2470	92	2290	92	2120	92	1950	95	105	
-10	93	3090	92	2510	92	2330	92	2150	92	1990	95	105	
-5	93	3140	91	2550	91	2370	91	2190	91	2020	95	105	
0	93	3210	91	2590	91	2410	91	2230	91	2060	95	105	
5	94	3350	91	2640	91	2450	91	2270	92	2100	95	105	
10	96	3610	93	2770	93	2580	93	2410	93	2230	96	104	

WEIGHT = 9000 LBS					VENR = 118 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	92	2970	92	2420	92	2240	92	2070	92	1910	93	104	
-15	92	3020	92	2460	92	2280	92	2110	92	1950	93	104	
-10	92	3060	92	2500	92	2320	92	2150	92	1980	93	104	
-5	92	3110	92	2540	92	2360	92	2190	92	2020	93	104	
0	91	3150	91	2580	91	2400	91	2220	91	2060	93	104	
5	90	3200	90	2620	90	2440	90	2260	90	2090	92	102	
10	88	3240	87	2660	87	2470	87	2300	87	2130	90	100	

WEIGHT = 8500 LBS					VENR = 115 KIAS								
TEMP	TAILWIND		ZERO		HEADWINDS								
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS				
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR KIAS	V2 KIAS	
-20	92	2970	92	2420	92	2250	92	2080	92	1920	92	104	
-15	92	3020	92	2460	92	2290	92	2120	92	1960	92	104	
-10	92	3060	92	2500	92	2320	92	2160	92	1990	92	104	
-5	92	3100	92	2540	92	2360	92	2190	92	2030	92	104	
0	91	3150	91	2580	91	2400	91	2230	91	2060	92	104	
5	90	3190	90	2620	90	2440	90	2270	90	2100	91	102	
10	87	3240	87	2660	87	2480	87	2300	87	2130	89	99	

Figure 4-25 (Sheet 2)

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
2000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS					VENR = 139 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	108	4500	106	3420	106	3200	106	3000	106	2790	108	115
-15	108	4560	106	3480	106	3260	106	3050	106	2840	108	115
-10	108	4610	105	3530	106	3310	106	3100	106	2900	108	115
-5	108	4730	106	3620	106	3400	106	3180	106	2970	108	115
0	108	4860	106	3710	106	3490	106	3270	106	3060	108	115
5	109	5340	107	3980	107	3740	108	3510	108	3290	109	115
10	109	6030	109	4340	109	4090	109	3840	109	3600	109	115

WEIGHT = 12200 LBS					VENR = 137 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	107	4370	105	3330	105	3120	105	2920	105	2720	107	114
-15	107	4430	104	3390	105	3180	105	2970	105	2770	107	114
-10	107	4480	104	3440	105	3230	105	3020	105	2820	107	114
-5	107	4590	105	3530	105	3310	105	3100	105	2890	107	114
0	107	4720	105	3620	105	3400	105	3180	105	2970	107	114
5	108	5180	106	3880	106	3650	107	3420	107	3200	108	114
10	108	5830	108	4220	108	3970	108	3720	108	3490	108	114

WEIGHT = 12000 LBS					VENR = 136 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	106	4230	103	3240	103	3030	104	2830	104	2640	106	113
-15	106	4280	103	3290	103	3080	104	2880	104	2690	106	113
-10	106	4340	103	3340	103	3130	104	2930	104	2730	106	113
-5	106	4440	103	3430	104	3210	104	3010	104	2810	106	113
0	106	4560	104	3510	104	3300	104	3090	104	2880	106	113
5	107	5000	105	3770	105	3540	105	3320	106	3100	107	113
10	107	5620	107	4090	107	3850	107	3610	107	3370	107	113

WEIGHT = 11500 LBS					VENR = 134 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	103	3890	100	3000	100	2810	101	2620	101	2440	103	111
-15	103	3950	100	3050	100	2860	100	2670	101	2480	103	111
-10	103	4000	100	3100	100	2910	100	2710	101	2530	103	111
-5	103	4090	100	3180	100	2980	101	2780	101	2590	103	111
0	103	4190	100	3260	101	3060	101	2860	101	2660	103	111
5	104	4580	102	3490	102	3280	102	3070	102	2860	104	111
10	105	5110	104	3790	104	3560	104	3330	104	3110	105	111

WEIGHT = 11000 LBS					VENR = 130 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	100	3620	97	2780	97	2600	97	2420	98	2250	101	109
-15	100	3670	97	2830	97	2640	97	2460	97	2290	101	109
-10	100	3720	97	2870	97	2690	97	2500	97	2330	101	109
-5	100	3800	97	2940	97	2750	97	2570	98	2390	101	109
0	100	3890	97	3020	97	2820	98	2640	98	2460	101	109
5	101	4190	99	3230	99	3020	99	2830	99	2630	101	109
10	102	4650	100	3500	101	3280	101	3060	101	2860	102	109

WEIGHT = 10000 LBS					VENR = 126 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	93	3100	91	2490	91	2310	91	2140	91	1970	95	105
-15	93	3150	91	2540	91	2350	91	2180	91	2010	95	105
-10	93	3190	91	2580	91	2400	91	2220	91	2050	95	105
-5	93	3260	91	2620	91	2440	91	2260	91	2080	95	105
0	93	3340	90	2670	90	2480	91	2300	91	2120	95	105
5	95	3550	92	2730	92	2550	92	2380	93	2210	96	104
10	96	3840	94	2950	94	2760	94	2570	94	2390	96	104

WEIGHT = 9000 LBS					VENR = 118 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	92	3040	92	2480	92	2300	92	2130	92	1970	93	104
-15	92	3090	92	2520	92	2340	92	2170	92	2000	93	104
-10	92	3140	92	2560	92	2380	92	2210	92	2040	93	104
-5	91	3180	91	2600	91	2420	91	2250	91	2080	93	104
0	91	3230	91	2650	91	2460	91	2290	91	2120	93	103
5	88	3280	88	2690	88	2500	88	2330	88	2160	91	101
10	89	3320	86	2730	86	2550	87	2370	87	2190	91	99

WEIGHT = 8500 LBS					VENR = 115 KIAS									
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR	V2
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	KIAS	
-20	92	3040	92	2480	92	2310	92	2140	92	1970	92	104
-15	92	3090	92	2520	92	2350	92	2180	92	2010	92	104
-10	92	3130	92	2560	92	2390	92	2210	92	2050	92	104
-5	91	3180	91	2610	91	2430	91	2250	91	2090	92	104
0	91	3220	91	2650	91	2470	91	2290	91	2120	92	103
5	88	3270	88	2690	88	2510	88	2330	88	2160	90	100
10	86	3320	85	2730	85	2550	85	2370	85	2200	88	97

Figure 4-25 (Sheet 3)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
3000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	108	4540	105	3460	106	3250	106	3040	106	2830	108	115
-20	108	4600	105	3520	106	3300	106	3090	106	2890	108	115
-15	108	4660	105	3580	106	3360	106	3150	106	2940	108	115
-10	108	4740	105	3650	106	3430	106	3210	106	3000	108	115
-5	108	4890	106	3760	106	3530	106	3310	106	3100	108	115
0	108	5140	106	3910	106	3670	107	3450	107	3230	108	115
5	109	5810	108	4270	108	4020	108	3770	109	3530	109	115
10	110	6610	110	4720	110	4440	110	4190	110	3940	110	115

WEIGHT = 12200 LBS — VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	107	4410	104	3380	105	3160	105	2960	105	2760	107	114
-20	107	4470	104	3430	105	3220	105	3010	105	2810	107	114
-15	107	4530	104	3490	105	3280	105	3070	105	2860	107	114
-10	107	4600	104	3560	105	3340	105	3130	105	2920	107	114
-5	107	4750	105	3670	105	3440	105	3230	105	3020	107	114
0	107	4990	105	3810	105	3580	106	3360	106	3150	107	114
5	108	5620	107	4160	107	3910	107	3670	108	3440	108	114
10	109	6380	109	4580	109	4310	109	4050	109	3800	109	114

WEIGHT = 12000 LBS — VENR = 136 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	106	4270	103	3280	103	3070	104	2870	104	2680	106	113
-20	106	4320	103	3340	103	3130	104	2920	104	2730	106	113
-15	106	4380	103	3390	103	3180	103	2980	104	2780	106	113
-10	106	4450	103	3460	103	3240	103	3040	104	2840	106	113
-5	106	4600	103	3560	104	3340	104	3130	104	2920	106	113
0	106	4820	104	3700	104	3480	104	3260	105	3050	106	113
5	107	5420	106	4040	106	3790	106	3560	106	3330	107	113
10	108	6130	108	4420	108	4160	108	3910	108	3660	108	113

WEIGHT = 11500 LBS — VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	103	3930	100	3040	100	2850	100	2660	101	2470	103	111
-20	103	3990	100	3100	100	2900	100	2710	101	2520	103	111
-15	103	4050	100	3150	100	2950	100	2750	101	2570	103	111
-10	103	4120	100	3210	100	3010	100	2810	101	2620	103	111
-5	103	4230	100	3300	100	3100	101	2900	101	2700	103	111
0	104	4420	101	3430	101	3220	101	3020	101	2820	104	111
5	104	4950	103	3730	103	3510	103	3290	103	3070	104	111
10	105	5550	104	4050	104	3810	105	3570	105	3350	105	111

WEIGHT = 11000 LBS — VENR = 130 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	100	3660	97	2820	97	2630	97	2450	97	2280	101	109
-20	100	3710	97	2870	97	2680	97	2500	97	2320	101	109
-15	100	3770	97	2910	97	2730	97	2540	97	2370	101	109
-10	100	3830	97	2970	97	2780	97	2590	97	2420	101	109
-5	100	3930	97	3050	97	2860	97	2670	98	2490	101	109
0	101	4080	98	3170	98	2970	98	2780	98	2590	101	109
5	102	4520	100	3450	100	3240	100	3030	100	2830	102	109
10	102	5030	101	3740	101	3510	101	3290	102	3070	102	108

WEIGHT = 10000 LBS — VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	93	3140	91	2530	91	2350	91	2170	91	2000	95	105
-20	93	3180	91	2580	91	2390	91	2210	91	2040	95	105
-15	93	3230	91	2620	91	2430	91	2250	91	2080	95	105
-10	93	3280	91	2660	91	2480	91	2290	91	2120	95	105
-5	93	3370	90	2710	90	2520	91	2340	91	2160	95	105
0	94	3490	91	2750	91	2560	91	2370	91	2200	95	105
5	96	3780	93	2920	93	2730	93	2550	93	2370	96	104
10	97	4130	94	3150	95	2950	95	2750	95	2560	97	104

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	92	3090	92	2520	92	2340	92	2170	92	2000	93	104
-20	92	3130	92	2560	92	2380	92	2210	92	2040	93	104
-15	92	3180	92	2600	92	2420	92	2240	92	2080	93	104
-10	91	3230	91	2640	91	2460	91	2280	91	2110	93	104
-5	91	3270	91	2690	91	2500	91	2320	91	2150	93	104
0	89	3320	89	2730	89	2540	89	2360	89	2190	92	102
5	88	3340	86	2740	86	2560	86	2380	86	2200	90	99
10	90	3420	87	2750	87	2560	88	2380	88	2200	91	99

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR	V2 KIAS
-25	92	3080	92	2520	92	2340	92	2170	92	2010	92	104
-20	92	3130	92	2560	92	2380	92	2210	92	2040	92	104
-15	92	3170	92	2600	92	2420	92	2250	92	2080	92	104
-10	91	3220	91	2640	91	2460	91	2290	91	2120	92	104
-5	91	3270	91	2690	91	2510	91	2330	91	2160	92	103
0	90	3310	90	2730	90	2540	90	2370	90	2190	91	102
5	86	3330	86	2740	86	2560	86	2380	86	2210	89	99
10	86	3330	83	2740	83	2560	84	2380	84	2210	88	97

Figure 4-25 (Sheet 4)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
4000 FEET

CONDITIONS: ANTI-ICE ON
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS					VENR = 139 KIAS											WEIGHT = 12200 LBS					VENR = 138 KIAS										
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS				TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS			
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT							V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT					
-25	108	4640	105	3570	106	3350	106	3140	106	2930	108	115				-25	107	4510	104	3480	104	3270	105	3060	105	2850	107	114			
-20	108	4710	105	3630	105	3410	106	3200	106	2990	108	115				-20	107	4570	104	3540	104	3320	105	3110	105	2910	107	114			
-15	108	4770	105	3690	105	3470	106	3250	106	3040	108	115				-15	107	4640	104	3600	104	3380	105	3170	105	2960	107	114			
-10	108	4900	105	3790	106	3560	106	3340	106	3130	108	115				-10	107	4760	104	3700	105	3470	105	3260	105	3050	107	114			
-5	108	5090	106	3910	106	3680	106	3460	106	3240	108	115				-5	107	4940	105	3820	105	3590	105	3370	105	3150	107	114			
0	109	5560	107	4190	107	3940	107	3700	108	3470	109	115				0	108	5390	106	4080	106	3840	106	3600	107	3380	108	114			
5	109	6330	109	4610	109	4340	109	4080	109	3830	109	115				5	108	6120	108	4470	108	4210	108	3960	108	3720	108	114			
7	110	6680	110	4810	110	4540	110	4270	110	4010	110	115				9	109	6800	109	4870	109	4590	109	4320	109	4070	109	114			
9	110	7060	110	5020	110	4740	110	4470	110	4210	110	115				10	109	7000	109	4970	109	4690	109	4430	109	4170	109	114			

WEIGHT = 12000 LBS					VENR = 137 KIAS											WEIGHT = 11500 LBS					VENR = 134 KIAS										
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS				TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS			
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT							V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT					
-25	106	4370	103	3380	103	3170	103	2970	104	2770	106	113				-25	103	4040	100	3140	100	2940	100	2750	101	2560	103	111			
-20	106	4430	103	3440	103	3230	103	3020	104	2820	106	113				-20	103	4100	100	3190	100	2990	100	2800	100	2610	103	111			
-15	106	4490	103	3500	103	3280	103	3080	104	2870	106	113				-15	103	4160	100	3240	100	3040	100	2850	100	2660	103	111			
-10	106	4610	103	3590	103	3370	104	3160	104	2950	106	113				-10	103	4260	100	3330	100	3120	100	2920	101	2730	103	111			
-5	106	4780	104	3710	104	3490	104	3270	104	3060	106	113				-5	104	4390	100	3440	101	3230	101	3020	101	2830	104	111			
0	107	5210	105	3960	105	3720	105	3490	105	3270	107	113				0	104	4770	102	3670	102	3450	102	3230	102	3020	104	111			
5	107	5890	107	4320	107	4070	107	3830	107	3590	107	113				5	105	5360	104	4000	104	3760	104	3530	104	3300	105	111			
10	108	6710	108	4800	108	4520	108	4250	108	4000	108	113				10	105	6040	105	4390	105	4130	105	3880	105	3630	105	111			

WEIGHT = 11000 LBS					VENR = 130 KIAS											WEIGHT = 10000 LBS					VENR = 124 KIAS										
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS				TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS			
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT							V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT					
-25	100	3750	97	2900	97	2720	97	2530	97	2360	101	109				-25	92	3220	91	2610	91	2430	91	2250	91	2080	95	105			
-20	100	3810	97	2950	97	2760	97	2580	97	2400	101	109				-20	92	3270	91	2660	91	2470	91	2290	91	2120	95	105			
-15	100	3870	96	3000	97	2810	97	2630	97	2450	101	109				-15	92	3320	91	2700	91	2510	91	2330	91	2160	95	105			
-10	100	3960	97	3080	97	2890	97	2700	97	2520	101	109				-10	93	3390	91	2750	91	2560	91	2370	91	2200	95	105			
-5	100	4080	97	3180	97	2980	98	2790	98	2600	101	109				-5	93	3500	90	2790	91	2600	91	2420	91	2240	95	105			
0	101	4360	99	3390	99	3180	99	2980	99	2780	101	109				0	95	3710	92	2870	92	2690	92	2510	92	2330	96	104			
5	102	4880	100	3690	101	3470	101	3250	101	3030	102	109				5	97	4020	94	3120	94	2920	94	2720	94	2540	97	104			
10	103	5460	102	4010	102	3770	102	3540	102	3310	103	108				10	97	4450	95	3370	95	3160	96	2950	96	2750	97	104			

WEIGHT = 9000 LBS					VENR = 119 KIAS											WEIGHT = 8500 LBS					VENR = 115 KIAS										
TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS				TEMP DEG C	TAILWIND 10 KTS		ZERO WIND		HEADWINDS 10 KTS		20 KTS		30 KTS		VR KIAS	V2 KIAS			
	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT							V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT					
-25	92	3170	92	2590	92	2410	92	2240	92	2070	93	104				-25	92	3170	92	2600	92	2420	92	2240	92	2080	92	104			
-20	91	3220	91	2640	91	2460	91	2280	91	2110	93	104				-20	92	3220	92	2640	92	2460	92	2280	92	2120	92	104			
-15	91	3270	91	2680	91	2500	91	2320	91	2150	93	104				-15	92	3260	92	2680	92	2500	92	2320	92	2150	92	104			
-10	91	3320	91	2730	91	2540	91	2360	91	2190	93	104				-10	91	3310	91	2730	91	2540	91	2370	91	2190	92	104			
-5	90	3370	90	2770	90	2580	90	2400	90	2230	92	103				-5	90	3360	90	2770	90	2590	90	2410	90	2230	92	103			
0	88	3410	88	2810	88	2620	88	2440	88	2260	91	101				0	88	3400	88	2800	88	2620	88	2440	88	2270	90	100			
5	89	3400	86	2800	86	2610	87	2430	87	2250	91	99				5	85	3390	85	2790	85	2610	85	2430	85	2250	88	97			
10	91	3640	88	2800	88	2610	88	2430	89	2260	91	99				10	87	3360	84	2760	84	2570	84	2390	85	2220	88	96			

Figure 4-25 (Sheet 5)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
5000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS											VENR = 139 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	108	4680	105	3610	105	3390	106	3180	106	2970	108 115
-25	108	4750	105	3680	105	3460	106	3240	106	3030	108 115
-20	108	4820	105	3740	105	3520	106	3300	106	3090	108 115
-15	108	4880	105	3810	105	3580	105	3360	106	3150	108 115
-10	108	5090	106	3940	106	3710	106	3480	106	3270	108 115
-5	108	5310	106	4090	106	3850	106	3620	107	3390	108 115
0	109	6050	108	4490	108	4230	108	3980	108	3740	109 115
5	110	6940	110	5010	110	4730	110	4450	110	4180	110 115
6	110	7140	110	5120	110	4830	110	4550	110	4290	110 115

WEIGHT = 12200 LBS											VENR = 138 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	107	4550	104	3520	104	3310	105	3100	105	2890	107 114
-25	107	4610	104	3590	104	3370	105	3160	105	2950	107 114
-20	107	4680	104	3650	104	3430	104	3210	105	3010	107 114
-15	107	4750	104	3710	104	3490	104	3270	105	3060	107 114
-10	107	4940	105	3850	105	3620	105	3400	105	3180	107 114
-5	107	5160	105	3990	105	3750	105	3530	106	3310	107 114
0	108	5860	107	4380	107	4120	107	3870	107	3630	108 114
5	109	6700	109	4860	109	4590	109	4320	109	4050	109 114
6	109	6880	109	4970	109	4680	109	4410	109	4140	109 114
7	109	7070	109	5070	109	4780	109	4500	109	4240	109 114

WEIGHT = 12000 LBS											VENR = 137 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	106	4400	103	3420	103	3210	103	3000	104	2800	106 113
-25	106	4470	103	3480	103	3270	103	3060	103	2860	106 113
-20	106	4530	103	3540	103	3330	103	3120	103	2920	106 113
-15	106	4590	103	3600	103	3390	103	3180	103	2970	106 113
-10	106	4780	103	3740	103	3510	104	3300	104	3090	106 113
-5	106	4990	104	3880	104	3640	104	3420	104	3210	106 113
0	107	5650	106	4250	106	4000	106	3750	106	3520	107 113
5	108	6440	108	4700	108	4430	108	4160	108	3910	108 113
7	108	6790	108	4900	108	4620	108	4340	108	4080	108 113
10	108	7400	108	5230	108	4950	108	4670	108	4410	108 113

WEIGHT = 11500 LBS											VENR = 134 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	103	4080	100	3170	100	2970	100	2780	100	2590	103 111
-25	103	4140	100	3230	100	3030	100	2830	100	2640	103 111
-20	103	4210	100	3290	100	3080	100	2890	100	2700	103 111
-15	103	4270	100	3340	100	3140	100	2940	100	2750	103 111
-10	103	4420	100	3460	100	3250	101	3050	101	2850	103 111
-5	104	4580	101	3590	101	3380	101	3170	101	2960	104 111
0	104	5160	103	3930	103	3690	103	3470	103	3250	104 111
5	105	5830	104	4300	104	4050	105	3810	105	3570	105 111
10	106	6630	106	4770	106	4500	106	4230	106	3970	106 111

WEIGHT = 11000 LBS											VENR = 131 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	100	3790	96	2940	97	2750	97	2570	97	2390	101 109
-25	99	3850	96	2990	97	2800	97	2620	97	2440	101 109
-20	99	3910	96	3040	97	2850	97	2670	97	2490	101 109
-15	99	3970	96	3090	97	2900	97	2710	97	2530	101 109
-10	100	4110	97	3210	97	3010	97	2810	98	2630	101 109
-5	100	4250	97	3320	98	3120	98	2920	98	2730	101 109
0	102	4710	99	3630	100	3410	100	3200	100	2990	102 109
5	102	5280	101	3950	101	3710	101	3490	102	3260	102 108
10	103	5950	103	4350	103	4090	103	3840	103	3600	103 108

WEIGHT = 10000 LBS											VENR = 124 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	92	3260	91	2650	91	2470	91	2290	91	2110	95 105
-25	92	3310	91	2700	91	2510	91	2330	91	2150	95 105
-20	92	3360	91	2750	91	2560	91	2370	91	2190	95 105
-15	92	3410	91	2790	91	2600	91	2410	91	2240	95 105
-10	93	3520	90	2820	90	2630	91	2440	91	2260	95 105
-5	93	3630	91	2850	91	2650	91	2470	91	2300	95 105
0	96	3950	93	3070	93	2870	93	2690	93	2500	96 104
5	97	4330	94	3330	95	3120	95	2920	95	2720	97 104
10	98	4820	96	3600	96	3380	96	3170	97	2950	98 104

WEIGHT = 9000 LBS											VENR = 119 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	92	3220	92	2630	92	2450	92	2280	92	2110	93 105
-25	92	3270	92	2680	92	2490	92	2320	92	2150	93 105
-20	91	3320	91	2720	91	2540	91	2360	91	2190	93 105
-15	91	3360	91	2770	91	2580	91	2400	91	2230	93 105
-10	90	3390	90	2790	90	2610	90	2430	90	2250	93 104
-5	89	3420	89	2820	89	2630	89	2450	89	2270	92 103
0	88	3430	86	2830	86	2640	86	2450	86	2280	90 99
5	90	3590	87	2810	87	2620	88	2430	88	2250	91 99
10	92	3880	89	2990	89	2790	89	2600	90	2420	92 99

WEIGHT = 8500 LBS											VENR = 115 KIAS
TEMP	TAILWIND		ZERO		HEADWINDS						
DEG	10 KTS		WIND		10 KTS		20 KTS		30 KTS		
C	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	V1 KIAS	DIST FT	VR V2 KIAS
-30	92	3210	92	2640	92	2460	92	2280	92	2110	93 104
-25	92	3260	92	2680	92	2500	92	2320	92	2150	93 104
-20	92	3310	92	2720	92	2540	92	2360	92	2190	93 104
-15	92	3360	92	2770	92	2580	92	2410	92	2230	93 104
-10	91	3390	91	2790	91	2610	91	2430	91	2250	92 103
-5	90	3410	90	2820	90	2630	90	2450	90	2270	91 102
0	86	3420	86	2820	86	2630	86	2450	86	2280	89 99
5	86	3400	83	2800	84	2610	84	2430	84	2250	88 97
10	88	3520	85	2770	85	2580	85	2400	86	2220	88 96

Figure 4-25 (Sheet 6)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
6000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	108	4790	105	3720	105	3500	105	3280	106	3070	108	115
-25	108	4860	105	3790	105	3570	105	3350	106	3130	108	115
-20	108	4930	105	3860	105	3630	105	3410	106	3200	108	115
-15	108	5060	105	3960	105	3730	106	3500	106	3290	108	115
-10	108	5310	106	4120	106	3880	106	3650	106	3420	108	115
-5	108	5740	107	4380	107	4120	107	3880	107	3640	108	115
0	109	6630	109	4860	109	4590	109	4320	109	4060	109	115
2	109	7180	110	5090	110	4810	110	4530	110	4260	110	115
3	109	7470	110	5220	110	4930	110	4640	110	4370	110	115

WEIGHT = 12200 LBS VENR = 138 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4660	104	3630	104	3410	104	3200	105	2990	107	114
-25	107	4730	104	3700	104	3480	104	3260	105	3050	107	114
-20	107	4790	104	3760	104	3540	104	3320	105	3110	107	114
-15	107	4920	104	3860	104	3630	105	3410	105	3200	107	114
-10	107	5160	105	4020	105	3780	105	3550	105	3340	107	114
-5	108	5570	106	4260	106	4020	106	3780	106	3540	108	114
0	108	6360	108	4720	108	4450	108	4190	108	3940	108	114
3	109	6960	109	5070	109	4780	109	4500	109	4230	109	114
4	109	7160	109	5180	109	4880	109	4600	109	4330	109	114

WEIGHT = 12000 LBS VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	106	4510	103	3530	103	3310	103	3100	103	2900	106	113
-25	106	4570	103	3590	103	3370	103	3160	103	2960	106	113
-20	106	4640	103	3650	103	3440	103	3220	103	3020	106	113
-15	106	4760	103	3750	103	3530	103	3310	103	3100	106	113
-10	106	4990	104	3900	104	3670	104	3450	104	3230	106	113
-5	107	5380	105	4140	105	3900	105	3660	105	3430	107	113
0	107	6130	106	4560	107	4300	107	4050	107	3800	107	113
4	108	6870	108	5000	108	4720	108	4440	108	4170	108	113
5	108	7060	108	5110	108	4820	108	4540	108	4260	108	113
7	108	7480	108	5330	108	5030	108	4750	108	4480	108	113

WEIGHT = 11500 LBS VENR = 134 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	4190	100	3270	100	3070	100	2870	100	2680	103	111
-25	103	4260	100	3330	100	3130	100	2930	100	2740	103	111
-20	103	4320	100	3390	100	3180	100	2980	100	2790	103	111
-15	103	4430	100	3480	100	3270	100	3060	100	2870	103	111
-10	103	4600	100	3620	101	3400	101	3190	101	2990	104	111
-5	104	4930	101	3840	102	3610	102	3390	102	3170	104	111
0	105	5580	103	4200	104	3960	104	3720	104	3490	105	111
5	105	6350	105	4670	105	4400	105	4140	105	3880	105	111
7	106	6710	106	4870	106	4590	106	4320	106	4060	106	111
10	106	7290	106	5190	106	4900	106	4610	106	4350	106	111

WEIGHT = 11000 LBS VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	99	3900	96	3030	97	2840	97	2650	97	2470	101	109
-25	99	3960	96	3080	97	2890	97	2700	97	2520	101	109
-20	99	4020	96	3140	96	2940	97	2750	97	2570	101	109
-15	99	4110	96	3220	97	3020	97	2830	97	2640	101	109
-10	100	4270	97	3350	97	3140	98	2940	98	2750	101	109
-5	101	4510	98	3550	98	3330	99	3120	99	2920	101	109
0	102	5080	100	3880	100	3650	100	3420	101	3210	102	109
5	103	5730	102	4260	102	4010	102	3770	102	3530	103	108
10	103	6510	103	4720	103	4450	103	4180	103	3920	103	108

WEIGHT = 10000 LBS VENR = 124 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	92	3350	91	2740	91	2550	91	2370	91	2190	95	105
-25	92	3410	91	2790	91	2600	91	2410	91	2230	95	105
-20	92	3460	91	2840	91	2640	91	2460	91	2280	95	105
-15	92	3520	91	2880	91	2680	91	2490	91	2310	95	105
-10	93	3650	90	2900	90	2700	91	2510	91	2330	95	105
-5	94	3860	91	3000	92	2810	92	2630	92	2450	96	104
0	96	4200	93	3280	94	3070	94	2870	94	2680	97	104
5	97	4680	95	3570	95	3350	96	3130	96	2920	97	104
10	98	5220	97	3890	97	3650	97	3420	97	3200	98	104

WEIGHT = 9000 LBS VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	92	3310	92	2720	92	2530	92	2360	92	2180	94	105
-25	92	3360	92	2770	92	2580	92	2400	92	2220	94	105
-20	91	3410	91	2810	91	2620	91	2440	91	2270	94	105
-15	91	3450	91	2850	91	2660	91	2480	91	2300	93	104
-10	90	3480	90	2870	90	2680	90	2500	90	2320	92	103
-5	88	3480	88	2870	88	2680	88	2500	88	2320	91	101
0	89	3530	86	2840	86	2650	87	2470	87	2290	91	99
5	91	3820	88	2960	88	2760	89	2580	89	2400	91	99
10	92	4180	90	3190	90	2990	90	2790	90	2600	92	99

WEIGHT = 8500 LBS VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	92	3300	92	2720	92	2540	92	2360	92	2190	93	105
-25	92	3350	92	2770	92	2580	92	2400	92	2230	93	105
-20	92	3400	92	2810	92	2630	92	2450	92	2270	93	105
-15	91	3450	91	2850	91	2660	91	2480	91	2300	92	104
-10	90	3470	90	2870	90	2680	90	2500	90	2320	92	103
-5	88	3470	88	2870	88	2680	88	2490	88	2320	90	101
0	85	3440	84	2830	84	2640	84	2460	84	2280	88	97
5	87	3480	84	2800	84	2610	85	2430	85	2250	88	96
10	89	3740	86	2880	86	2690	86	2510	86	2330	89	96

Figure 4-25 (Sheet 7)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
7000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS — VENR = 140 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	108	4940	105	3860	105	3630	105	3410	106	3200	108	115
-25	108	5040	105	3940	105	3710	105	3490	106	3270	108	115
-20	108	5130	105	4030	105	3790	106	3570	106	3350	108	115
-15	108	5330	106	4160	106	3920	106	3690	106	3460	108	115
-10	108	5580	106	4330	106	4080	106	3840	107	3610	108	115
-5	108	6410	108	4700	108	4440	108	4180	108	3930	109	115
0	107	7760	110	5300	110	5010	110	4720	110	4440	110	115

WEIGHT = 12200 LBS — VENR = 139 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4800	104	3760	104	3540	104	3320	105	3110	107	114
-25	107	4900	104	3840	104	3620	104	3400	105	3180	107	114
-20	107	4990	104	3930	104	3700	104	3470	105	3260	107	114
-15	107	5180	105	4060	105	3830	105	3600	105	3370	107	114
-10	107	5420	105	4220	105	3970	105	3740	106	3510	107	114
-5	108	6050	107	4580	107	4320	107	4060	107	3820	108	114
0	108	7180	109	5140	109	4860	109	4580	109	4310	109	114
2	108	7780	109	5390	109	5090	109	4800	109	4520	109	114

WEIGHT = 12000 LBS — VENR = 137 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	106	4650	103	3650	103	3440	103	3220	103	3020	106	113
-25	106	4740	103	3730	103	3510	103	3300	103	3090	106	113
-20	106	4830	103	3810	103	3590	103	3370	103	3160	106	113
-15	106	5010	103	3940	103	3710	104	3490	104	3270	106	113
-10	106	5240	104	4090	104	3860	104	3630	104	3400	106	113
-5	107	5830	105	4440	106	4190	106	3940	106	3700	107	113
0	108	6720	107	4970	108	4690	108	4420	108	4150	108	113
2	108	7130	108	5200	108	4910	108	4630	108	4360	108	113
5	108	7920	109	5560	109	5250	109	4960	109	4680	109	113

WEIGHT = 11500 LBS — VENR = 135 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	4330	100	3390	100	3180	100	2980	100	2790	103	111
-25	103	4410	100	3460	100	3250	100	3050	100	2850	103	111
-20	103	4490	100	3540	100	3320	100	3120	100	2920	103	111
-15	103	4640	100	3660	100	3440	101	3230	101	3020	104	111
-10	104	4810	101	3800	101	3570	101	3360	101	3150	104	111
-5	104	5330	102	4110	102	3870	103	3640	103	3410	104	111
0	105	6080	104	4550	104	4290	104	4040	105	3790	105	111
5	106	6980	106	5080	106	4790	106	4510	106	4240	106	111
8	106	7600	106	5420	106	5120	106	4820	106	4550	106	111

WEIGHT = 11000 LBS — VENR = 131 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	99	4020	96	3140	97	2940	97	2750	97	2570	101	109
-25	99	4100	96	3210	97	3010	97	2820	97	2630	101	109
-20	99	4180	96	3270	97	3070	97	2880	97	2690	101	109
-15	100	4310	97	3380	97	3180	97	2980	98	2790	101	109
-10	100	4460	97	3510	98	3300	98	3100	98	2900	101	109
-5	102	4870	99	3800	99	3570	100	3350	100	3140	102	109
0	102	5510	101	4160	101	3920	101	3680	102	3460	102	108
5	103	6260	103	4630	103	4360	103	4100	103	3850	103	108
8	104	6780	104	4930	104	4650	104	4370	104	4110	104	108
10	104	7170	104	5150	104	4850	104	4570	104	4290	104	108

WEIGHT = 10000 LBS — VENR = 125 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	92	3450	91	2830	91	2640	91	2450	91	2270	95	105
-25	92	3510	91	2870	91	2680	91	2490	91	2310	95	105
-20	92	3580	91	2910	91	2720	91	2530	91	2340	95	105
-15	93	3690	90	2930	90	2730	91	2540	91	2360	95	105
-10	93	3820	91	2980	91	2790	91	2610	91	2440	95	105
-5	95	4110	92	3210	93	3010	93	2820	93	2630	96	104
0	97	4520	94	3510	95	3290	95	3090	95	2880	97	104
5	98	5060	96	3820	96	3590	96	3370	97	3150	98	104
10	98	5680	98	4220	98	3960	98	3720	98	3480	98	103

WEIGHT = 9000 LBS — VENR = 118 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	91	3410	91	2810	91	2620	91	2440	91	2260	93	105
-25	91	3450	91	2850	91	2660	91	2470	91	2290	93	104
-20	91	3490	91	2880	91	2690	91	2510	91	2330	93	104
-15	90	3510	90	2900	90	2710	90	2520	90	2340	93	103
-10	89	3520	89	2900	89	2710	89	2520	89	2340	92	102
-5	88	3500	86	2880	86	2690	86	2500	86	2320	90	100
0	90	3760	87	2910	87	2730	88	2550	88	2370	91	99
5	92	4080	89	3160	89	2960	89	2760	90	2580	92	99
10	92	4520	91	3420	91	3210	91	3000	91	2800	92	99

WEIGHT = 8500 LBS — VENR = 115 KIAS

TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	91	3400	91	2810	91	2620	91	2440	91	2270	93	104
-25	91	3440	91	2840	91	2660	91	2470	91	2300	92	104
-20	91	3480	91	2880	91	2690	91	2510	91	2330	92	104
-15	90	3500	90	2890	90	2700	90	2520	90	2340	92	103
-10	89	3500	89	2900	89	2710	89	2520	89	2340	91	102
-5	86	3480	86	2870	86	2680	86	2490	86	2320	89	99
0	86	3450	83	2840	83	2650	84	2460	84	2280	88	97
5	88	3700	85	2850	85	2670	86	2490	86	2310	88	96
10	89	4020	87	3080	87	2880	87	2690	87	2500	89	96

Figure 4-25 (Sheet 8)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
8000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS					VENR = 140 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	108	5110	105	4010	105	3780	106	3550	106	3330	108	115
-25	108	5210	105	4090	105	3860	106	3630	106	3410	108	115
-20	108	5340	105	4190	106	3960	106	3720	106	3490	108	115
-15	107	5720	106	4380	106	4130	106	3890	106	3660	108	115
-10	107	6280	107	4610	107	4360	107	4100	107	3860	108	115
-5	106	7390	109	5110	109	4830	109	4560	109	4290	109	115
-3	106	7960	109	5360	110	5070	110	4790	110	4510	110	115
-2	105	8290	110	5500	110	5200	110	4910	110	4620	110	115

WEIGHT = 12200 LBS					VENR = 139 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	107	4970	104	3910	104	3680	104	3460	105	3240	107	114
-25	107	5060	104	3990	104	3760	104	3530	105	3320	107	114
-20	107	5180	104	4090	104	3850	105	3630	105	3400	107	114
-15	107	5460	105	4270	105	4030	105	3790	105	3560	107	114
-10	107	5860	106	4500	106	4240	106	4000	106	3760	108	114
-5	107	6880	108	4960	108	4690	108	4420	108	4160	108	114
-2	106	7730	109	5340	109	5040	109	4760	109	4480	109	114
0	106	8390	109	5600	109	5300	109	5000	109	4710	109	114

WEIGHT = 12000 LBS					VENR = 138 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	106	4800	103	3790	103	3570	103	3350	103	3140	106	113
-25	106	4890	103	3870	103	3650	103	3430	103	3210	106	113
-20	106	5010	103	3970	103	3740	103	3520	104	3300	106	113
-15	106	5280	104	4140	104	3910	104	3670	104	3450	106	113
-10	107	5620	105	4360	105	4110	105	3870	105	3640	107	113
-5	107	6360	106	4800	106	4530	107	4270	107	4020	107	113
0	107	7670	108	5410	108	5110	108	4820	108	4540	108	113
2	107	8320	109	5670	109	5360	109	5050	109	4760	109	113

WEIGHT = 11500 LBS					VENR = 135 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	103	4470	100	3520	100	3310	100	3100	100	2900	103	111
-25	103	4560	100	3590	100	3380	100	3170	100	2970	103	111
-20	103	4660	100	3680	100	3460	100	3250	100	3050	103	111
-15	104	4860	101	3840	101	3620	101	3400	101	3190	104	111
-10	104	5150	101	4050	102	3810	102	3580	102	3360	104	111
-5	105	5790	103	4410	103	4160	103	3910	104	3680	105	111
0	105	6650	105	4950	105	4670	105	4400	105	4130	105	111
2	106	7050	106	5180	106	4890	106	4610	106	4330	106	111
5	106	7720	106	5550	106	5240	106	4940	106	4650	106	111

WEIGHT = 11000 LBS					VENR = 131 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	99	4160	96	3260	97	3060	97	2860	97	2680	101	109
-25	99	4230	96	3320	97	3120	97	2930	97	2740	101	109
-20	100	4330	97	3400	97	3200	97	3000	97	2810	101	109
-15	100	4510	97	3550	98	3340	98	3140	98	2940	101	109
-10	101	4740	98	3740	98	3520	99	3300	99	3100	101	109
-5	102	5270	100	4070	100	3830	100	3600	100	3380	102	109
0	103	6000	102	4510	102	4260	102	4000	102	3760	103	108
5	104	6890	104	5050	104	4760	104	4480	104	4210	104	108
10	104	7960	104	5620	104	5310	104	5020	104	4740	104	108

WEIGHT = 10000 LBS					VENR = 125 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	92	3560	91	2920	91	2730	91	2540	91	2350	95	105
-25	92	3630	91	2970	91	2770	91	2580	91	2390	95	105
-20	92	3710	90	3000	90	2800	90	2610	91	2420	95	105
-15	93	3860	90	3020	91	2830	91	2650	91	2470	95	105
-10	94	4040	91	3160	92	2970	92	2780	92	2600	96	104
-5	96	4390	93	3440	94	3230	94	3020	94	2830	97	104
0	97	4890	95	3760	95	3530	96	3310	96	3100	97	104
5	98	5510	97	4150	97	3900	97	3660	97	3430	98	104
10	99	6220	98	4590	99	4320	99	4060	99	3800	99	103

WEIGHT = 9000 LBS					VENR = 118 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	91	3500	91	2900	91	2700	91	2520	91	2340	93	104
-25	91	3550	91	2940	91	2740	91	2560	91	2380	93	104
-20	91	3590	91	2970	91	2770	91	2590	91	2410	93	104
-15	89	3570	89	2950	89	2750	89	2560	89	2380	92	103
-10	88	3540	87	2920	87	2730	87	2540	87	2360	91	101
-5	89	3680	86	2890	86	2700	86	2510	87	2330	91	99
0	91	4010	88	3120	88	2920	88	2730	89	2540	91	99
5	92	4410	90	3390	90	3180	90	2970	90	2770	92	99
10	93	4900	91	3710	92	3480	92	3260	92	3040	93	99

WEIGHT = 8500 LBS					VENR = 115 KIAS								
TEMP DEG C	TAILWIND 10 KTS V1 KIAS	TAILWIND 10 KTS DIST FT	ZERO WIND V1 KIAS	ZERO WIND DIST FT	HEADWINDS 10 KTS V1 KIAS	HEADWINDS 10 KTS DIST FT	HEADWINDS 20 KTS V1 KIAS	HEADWINDS 20 KTS DIST FT	HEADWINDS 30 KTS V1 KIAS	HEADWINDS 30 KTS DIST FT	VR KIAS	V2 KIAS
-30	91	3500	91	2890	91	2700	91	2520	91	2340	92	104
-25	91	3540	91	2930	91	2740	91	2560	91	2380	92	104
-20	91	3570	91	2960	91	2770	91	2590	91	2410	92	104
-15	89	3550	89	2940	89	2750	89	2560	89	2380	91	102
-10	88	3520	88	2910	88	2720	88	2530	88	2350	90	101
-5	85	3490	84	2880	84	2680	84	2500	84	2320	88	97
0	87	3640	84	2850	84	2660	85	2470	85	2290	88	96
5	89	3950	86	3060	86	2860	86	2670	87	2490	89	96
10	89	4350	88	3310	88	3100	88	2900	88	2700	89	96

Figure 4-25 (Sheet 9)