

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

FLAPS - 15°
9000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

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

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS											
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS				
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT				
-30	108 5400	106 4220	106 3980	106 3750	106 3520	108 115	-30	107 5250	105 4120	105 3880	105 3650	105 3420	107 114						
-25	107 5640	106 4340	106 4090	106 3850	106 3620	108 115	-25	107 5400	105 4230	105 3990	105 3750	105 3530	107 114						
-20	106 6130	106 4550	107 4290	107 4040	107 3800	108 115	-20	107 5730	105 4430	106 4180	106 3940	106 3700	107 114						
-15	106 6840	108 4850	108 4580	108 4320	108 4070	109 115	-15	106 6400	106 4720	107 4450	107 4200	107 3950	108 114						
-10	105 7870	109 5320	109 5030	109 4750	109 4470	109 115	-10	106 7380	108 5160	108 4880	108 4600	108 4340	108 114						
-9	105 8150	109 5440	109 5140	110 4850	110 4570	110 115	-8	105 7900	109 5390	109 5100	109 4810	109 4530	109 114						
-8	105 8440	110 5560	110 5260	110 4960	110 4680	110 115	-7	105 8220	109 5520	109 5220	109 4930	109 4650	109 114						

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS											
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS				
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT				
-30	106 5070	103 4000	103 3770	104 3540	104 3320	106 113	-30	103 4690	100 3710	100 3490	101 3280	101 3070	104 111						
-25	106 5220	104 4110	104 3870	104 3640	104 3420	106 113	-25	103 4820	100 3810	101 3590	101 3370	101 3160	104 111						
-20	106 5510	104 4300	104 4050	104 3820	105 3580	106 113	-20	104 5050	101 3990	101 3750	101 3530	102 3310	104 111						
-15	107 5970	105 4580	105 4320	106 4070	106 3820	107 113	-15	104 5450	102 4240	102 3990	102 3760	103 3530	104 111						
-10	107 6770	107 4990	107 4710	107 4440	107 4180	107 113	-10	105 6020	104 4580	104 4320	104 4070	104 3830	105 111						
-7	106 7560	108 5330	108 5040	108 4760	108 4480	108 113	-5	106 6890	105 5120	106 4840	106 4560	106 4290	106 111						
-5	106 8200	108 5600	108 5300	108 5000	108 4710	108 113	-4	106 7110	106 5250	106 4960	106 4680	106 4400	106 111						
-4	106 8570	108 5750	108 5430	108 5130	108 4830	108 113	0	106 8070	106 5770	106 5450	106 5140	106 4850	106 111						

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS											
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS				
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT				
-30	100 4360	97 3430	97 3220	97 3020	98 2830	101 109	-30	93 3370	90 2980	90 2780	91 2590	91 2400	95 105						
-25	100 4470	97 3520	97 3310	98 3110	98 2910	101 109	-25	93 3820	90 3010	90 2810	91 2620	91 2450	95 105						
-20	101 4670	98 3680	98 3470	98 3250	98 3050	101 109	-20	94 3980	91 3120	91 2930	92 2740	92 2560	96 104						
-15	102 4980	99 3910	99 3690	99 3460	100 3250	102 109	-15	95 4220	92 3310	92 3110	93 2910	93 2720	96 104						
-10	102 5470	100 4210	101 3960	101 3730	101 3500	102 109	-10	97 4520	94 3550	94 3340	94 3130	94 2930	97 104						
-5	103 6210	102 4670	102 4400	102 4150	102 3900	103 108	-5	97 5050	95 3870	96 3640	96 3420	96 3200	97 104						
0	104 7170	104 5240	104 4950	104 4660	104 4380	104 108	0	98 5710	97 4300	97 4050	97 3810	98 3570	98 103						
5	104 8380	104 5880	104 5570	104 5270	104 4980	104 108	5	99 6500	99 4780	99 4510	99 4240	99 3970	99 103						
6	105 8660	105 6060	105 5740	105 5430	105 5130	105 108	6	99 6680	99 4890	99 4600	99 4330	99 4060	99 103						
							10	99 7470	99 5310	99 5010	99 4710	99 4420	99 103						

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS											
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS				
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT				
-30	90 3560	90 2940	90 2750	90 2560	90 2380	93 103	-30	90 3550	90 2940	90 2750	90 2560	90 2380	92 103						
-25	90 3590	90 2970	90 2780	90 2590	90 2410	92 103	-25	90 3580	90 2960	90 2770	90 2590	90 2410	91 103						
-20	88 3600	88 2970	88 2780	88 2590	88 2410	91 102	-20	88 3580	88 2960	88 2770	88 2580	88 2400	91 101						
-15	87 3580	86 2960	86 2760	86 2570	86 2390	90 100	-15	86 3560	86 2940	86 2750	86 2560	86 2380	89 99						
-10	89 3790	86 2950	87 2770	87 2580	87 2410	91 99	-10	85 3530	84 2910	84 2720	84 2530	84 2350	88 97						
-5	91 4120	88 3210	89 3010	89 2810	89 2620	91 99	-5	87 3740	84 2900	85 2710	85 2530	85 2360	88 96						
0	92 4560	90 3500	90 3280	90 3070	91 2870	92 99	0	89 4060	86 3150	86 2950	87 2760	87 2570	89 96						
5	93 5100	92 3860	92 3620	92 3390	92 3170	93 98	5	90 4510	88 3440	88 3220	88 3010	88 2810	90 96						
10	93 5710	93 4250	93 3990	93 3740	93 3500	93 98	10	90 5020	89 3780	89 3540	90 3320	90 3100	90 96						

Figure 4-25 (Sheet 10)

MODEL 525A

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

FLAPS - 15°
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								WEIGHT = 12200 LBS							
VENR = 141 KIAS								VENR = 140 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	107 6010	106 4500	106 4250	106 4000	107 3760	108 115		-30	107 5820	105 4390	105 4140	105 3900	105 3660	107 114	
-25	106 5360	106 4650	107 4390	107 4140	107 3890	108 115		-25	106 5970	105 4530	105 4280	106 4030	106 3790	107 114	
-20	105 7190	108 5010	108 4740	108 4470	108 4210	109 115		-20	106 6750	107 4870	107 4600	107 4340	107 4090	108 114	
-15	104 8300	109 5510	109 5210	109 4920	109 4640	109 115		-15	105 7770	108 5350	108 5060	108 4770	108 4500	109 114	
-14	104 8610	110 5640	110 5340	110 5040	110 4750	110 115		-13	104 8390	109 5610	109 5310	109 5010	109 4720	109 114	
-13	104 8970	110 5780	110 5470	110 5170	110 4880	110 115		-12	104 8740	109 5760	109 5440	109 5140	109 4850	109 114	

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS							
VENR = 138 KIAS								VENR = 136 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	106 5430	104 4260	104 4020	104 3780	104 3550	106 113		-30	104 4990	101 3950	101 3720	101 3500	101 3280	104 111	
-25	106 5620	104 4400	104 4150	104 3910	105 3670	106 113		-25	104 5150	101 4080	101 3840	101 3610	102 3390	104 111	
-20	106 5240	105 4720	106 4460	106 4200	106 3950	107 113		-20	104 5620	102 4370	102 4120	103 3880	103 3640	104 111	
-15	106 7190	107 5160	107 4880	107 4610	107 4340	107 113		-15	105 6210	104 4740	104 4470	104 4220	104 3970	105 111	
-12	105 8080	108 5560	108 5250	108 4960	108 4670	108 113		-10	106 7190	106 5350	106 5050	106 4760	106 4480	106 111	
-10	105 8800	108 5850	108 5540	108 5230	108 4930	108 113		-7	106 7930	106 5760	106 5440	106 5140	106 4840	106 111	

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS							
VENR = 132 KIAS								VENR = 126 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	100 4630	97 3650	98 3430	98 3220	98 3020	101 109		-30	93 3950	91 3100	91 2900	91 2720	91 2540	95 105	
-25	101 4760	98 3770	98 3540	98 3330	98 3120	101 109		-25	94 4070	91 3190	91 2990	91 2800	92 2620	96 104	
-20	102 5130	99 4030	99 3800	99 3570	100 3350	102 109		-20	95 4340	92 3410	93 3200	93 3000	93 2810	96 104	
-15	102 5640	100 4340	101 4090	101 3850	101 3620	102 109		-15	97 4650	94 3660	94 3440	94 3230	94 3020	97 104	
-10	103 6460	102 4870	102 4600	103 4330	103 4070	103 108		-10	98 5250	96 4030	96 3790	96 3560	96 3340	98 104	
-7	104 7080	104 5240	104 4950	104 4660	104 4380	104 108		-5	98 5990	98 4510	98 4250	98 4000	98 3750	98 103	
-5	104 7570	104 5510	104 5200	104 4910	104 4620	104 108		0	99 6850	99 5030	99 4740	99 4460	99 4180	99 103	
0	105 8890	105 6220	105 5900	105 5580	105 5270	105 108		5	100 7950	100 5610	100 5290	100 4980	100 4690	100 103	
								8	100 8740	100 6050	100 5730	100 5410	100 5110	100 103	

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
VENR = 118 KIAS								VENR = 115 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	89 3640	89 3010	89 2820	89 2620	89 2440	92 102		-30	89 3620	89 3000	89 2810	89 2620	89 2440	91 102	
-25	88 3660	88 3030	88 2830	88 2640	88 2450	92 102		-25	88 3640	88 3020	88 2820	88 2630	88 2450	91 101	
-20	88 3650	86 3010	86 2810	86 2620	86 2430	90 99		-20	86 3620	86 3000	86 2800	86 2610	86 2430	89 99	
-15	89 3910	87 3040	87 2850	87 2670	87 2490	91 99		-15	85 3600	83 2970	83 2780	83 2590	83 2400	88 97	
-10	91 4260	89 3330	89 3120	89 2920	89 2730	92 99		-10	87 3870	85 3000	85 2810	85 2630	85 2450	88 96	
-5	92 4770	90 3660	91 3430	91 3220	91 3010	92 99		-5	89 4240	87 3280	87 3080	87 2880	87 2680	89 96	
0	93 5350	92 4040	92 3800	92 3560	92 3300	93 98		0	90 4720	88 3600	88 3380	89 3160	89 2950	90 96	
5	94 6040	93 4480	94 4210	94 3950	94 3700	94 98		5	90 5280	90 3980	90 3730	90 3490	90 3270	90 96	
8	94 6510	94 4760	94 4470	94 4200	94 3930	94 98		10	91 5940	91 4380	91 4120	91 3860	91 3610	91 95	
10	94 6880	94 4960	94 4660	94 4380	94 4100	94 98									

Figure 4-25 (Sheet 11)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
11,000 FEET

CONDITIONS: ANTI-ICE ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

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

WEIGHT = 12375 LBS										WEIGHT = 12200 LBS															
VENR = 141 KIAS					VENR = 140 KIAS					VENR = 140 KIAS					VENR = 140 KIAS										
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS		
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT
-30	105	6900	107	4910	107	4640	107	4370	107	4120	109	115	-30	105	6490	106	4780	106	4520	106	4260	106	4010	108	114
-25	104	7430	107	5130	108	4850	108	4580	108	4320	109	115	-25	104	7010	106	4990	106	4720	107	4450	107	4200	108	114
-20	103	8340	109	5550	109	5250	109	4970	109	4680	109	115	-20	104	7840	107	5390	108	5100	108	4820	108	4540	108	114
-17	102	9020	109	5840	109	5530	110	5230	110	4930	110	115	-17	103	8770	109	5800	109	5490	109	5190	109	4890	109	114
-16	102	9350	110	5970	110	5660	110	5350	110	5050	110	115	-16	103	9130	109	5940	109	5630	109	5320	109	5020	109	114

WEIGHT = 12000 LBS										WEIGHT = 11500 LBS															
VENR = 139 KIAS					VENR = 136 KIAS					VENR = 136 KIAS					VENR = 136 KIAS										
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS		
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT
-30	106	6010	105	4640	105	4380	105	4130	105	3880	107	113	-30	104	5450	101	4300	102	4060	102	3820	102	3580	104	111
-25	105	6500	105	4840	105	4570	105	4310	106	4060	107	113	-25	104	5730	102	4480	102	4230	102	3980	102	3740	104	111
-20	105	7290	106	5210	106	4930	106	4650	107	4390	107	113	-20	105	6220	103	4790	103	4520	103	4260	104	4010	105	111
-15	104	8460	108	5740	108	5430	108	5130	108	4840	108	113	-15	105	6910	104	5250	105	4960	105	4680	105	4410	105	111
-12	103	9590	109	6200	109	5870	109	5550	109	5230	109	113	-12	106	7630	106	5660	106	5350	106	5050	106	4760	106	111
													-10	105	8330	106	5950	106	5630	106	5310	106	5010	106	111
													-9	105	8730	106	6100	106	5770	106	5450	106	5140	106	111

WEIGHT = 11000 LBS										WEIGHT = 10000 LBS															
VENR = 132 KIAS					VENR = 126 KIAS					VENR = 126 KIAS					VENR = 126 KIAS										
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS		
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT
-30	101	5020	98	3970	98	3740	99	3520	99	3300	101	109	-30	94	4280	91	3360	92	3150	92	2960	92	2770	96	104
-25	102	5230	99	4140	99	3900	99	3670	99	3450	102	109	-25	95	4450	92	3500	92	3290	93	3080	93	2890	96	104
-20	102	5650	100	4410	100	4150	100	3910	100	3670	102	109	-20	96	4720	93	3720	93	3500	94	3280	94	3080	97	104
-15	103	6250	101	4800	101	4530	102	4270	102	4020	103	108	-15	97	5120	95	4000	95	3770	95	3540	95	3320	97	104
-10	103	7230	103	5410	103	5120	103	4820	103	4540	103	108	-10	98	5810	97	4460	97	4200	97	3950	97	3710	98	104
-9	104	7470	104	5550	104	5250	104	4950	104	4660	104	108	-5	99	6670	98	5000	98	4720	98	4440	99	4170	99	103
-5	104	8530	104	6130	104	5790	104	5460	104	5150	104	108	-3	99	7070	99	5240	99	4940	99	4650	99	4370	99	103
-3	105	9160	105	6440	105	6110	105	5780	105	5470	105	108	0	99	7730	99	5600	99	5290	99	4980	99	4680	99	103
													5	100	9070	100	6300	100	5970	100	5650	100	5330	100	103

WEIGHT = 9000 LBS										WEIGHT = 8500 LBS															
VENR = 119 KIAS					VENR = 115 KIAS					VENR = 115 KIAS					VENR = 115 KIAS										
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS		
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	V1 DIST	V1 DIST	V1 DIST			
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT
-30	88	3750	87	3100	87	2890	87	2700	87	2510	91	101	-30	87	3720	87	3080	87	2880	87	2690	87	2500	90	101
-25	87	3760	86	3110	86	2900	86	2700	86	2510	90	100	-25	86	3730	86	3090	86	2890	86	2690	86	2500	89	99
-20	89	3960	86	3090	86	2900	86	2710	87	2530	91	99	-20	85	3710	84	3070	84	2860	84	2670	84	2480	88	97
-15	90	4250	87	3320	88	3120	88	2920	88	2730	91	99	-15	86	3860	84	3040	84	2840	84	2650	84	2460	88	97
-10	92	4670	89	3640	90	3420	90	3200	90	2990	92	99	-10	88	4210	86	3280	86	3080	86	2880	86	2680	89	96
-5	93	5270	91	4040	91	3800	91	3560	92	3330	93	98	-5	89	4670	87	3600	88	3380	88	3170	88	2960	89	96
0	93	5950	93	4480	93	4220	93	3960	93	3710	93	98	0	90	5230	89	3990	89	3750	89	3510	89	3280	90	96
5	94	6770	94	4980	94	4680	94	4400	94	4120	94	98	5	91	5870	90	4400	90	4140	91	3880	91	3630	91	95
9	94	7580	94	5410	94	5100	94	4790	94	4490	94	98	9	91	6500	91	4780	91	4490	91	4220	91	3950	91	95

Figure 4-25 (Sheet 12)

MODEL 525A

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

FLAPS - 15°
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								WEIGHT = 12200 LBS							
VENR = 142 KIAS								VENR = 140 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	103 7900	108 5370	108 5080	108 4800	108 4530	109 115		-30	103 7450	106 5220	107 4940	107 4660	107 4400	108 114	
-25	102 8640	108 5700	108 5400	109 5110	109 4820	109 115		-25	102 8140	107 5540	107 5240	107 4950	108 4670	108 114	
-20	101 9660	109 6140	109 5810	110 5500	110 5190	110 115		-20	102 9080	108 5950	108 5640	108 5330	109 5030	109 114	
-19	101 9880	110 6230	110 5900	110 5580	110 5270	110 115		-19	102 9280	108 6040	109 5720	109 5410	109 5110	109 114	
						0 0		-17	101 9970	109 6320	109 5990	109 5670	109 5350	109 114	

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS							
VENR = 139 KIAS								VENR = 136 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	104 6940	105 5060	105 4780	106 4510	106 4250	107 113		-30	104 5980	102 4680	102 4420	102 4160	103 3910	104 111	
-25	103 7580	106 5360	106 5070	106 4790	106 4510	107 113		-25	105 6360	103 4920	103 4650	103 4390	103 4130	105 111	
-20	103 8440	107 5750	107 5440	107 5150	107 4850	108 113		-20	105 6870	104 5270	104 4980	104 4710	104 4430	105 111	
-17	102 9260	108 6100	108 5780	108 5470	108 5160	108 113		-15	104 8140	105 5850	106 5540	106 5230	106 4930	106 111	
-15	102 10010	108 6410	108 6070	108 5740	108 5420	108 113		-12	104 9230	106 6300	106 5970	106 5640	106 5320	106 111	

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS							
VENR = 133 KIAS								VENR = 126 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	102 5460	99 4320	99 4070	99 3830	100 3600	102 109		-30	95 4630	92 3650	92 3430	93 3220	93 3020	96 104	
-25	102 5790	100 4540	100 4280	100 4030	100 3790	102 109		-25	96 4850	93 3830	93 3600	93 3380	94 3170	97 104	
-20	102 6220	101 4820	101 4560	101 4300	101 4040	102 108		-20	97 5120	94 4050	94 3810	94 3580	95 3360	97 104	
-15	103 6980	102 5330	102 5040	102 4750	102 4480	103 108		-15	97 5670	96 4410	96 4150	96 3910	96 3670	97 104	
-12	104 7630	103 5740	103 5420	104 5120	104 4820	104 108		-10	98 6470	97 4940	97 4660	98 4390	98 4120	98 103	
-10	104 8150	104 6030	104 5710	104 5390	104 5080	104 108		-6	99 7270	99 5440	99 5130	99 4840	99 4550	99 103	
-6	105 9390	105 6670	105 6310	105 5970	105 5650	105 108		-5	99 7500	99 5570	99 5260	99 4960	99 4660	99 103	
								0	100 8790	100 6250	100 5910	100 5570	100 5240	100 103	
								2	100 9410	100 6560	100 6220	100 5880	100 5560	100 103	

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
VENR = 119 KIAS								VENR = 115 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-30	87 3890	86 3190	86 2980	86 2780	86 2580	90 100		-30	86 3830	86 3170	86 2960	86 2760	86 2570	89 99	
-25	88 4070	86 3190	86 2990	86 2800	86 2620	91 99		-25	85 3820	84 3160	84 2950	84 2750	84 2560	88 98	
-20	89 4290	87 3360	87 3160	87 2960	87 2760	91 99		-20	85 3900	83 3140	83 2930	83 2730	84 2530	88 97	
-15	91 4630	88 3630	89 3410	89 3200	89 2990	92 99		-15	87 4200	85 3280	85 3080	85 2880	85 2690	88 96	
-10	92 5160	90 4000	90 3770	91 3540	91 3310	92 99		-10	89 4590	86 3590	87 3370	87 3150	87 2950	89 96	
-5	93 5850	92 4480	92 4220	92 3960	92 3710	93 98		-5	90 5170	88 3990	88 3750	89 3520	89 3290	90 96	
0	94 6660	94 4990	94 4700	94 4420	94 4140	94 98		0	90 5820	90 4430	90 4160	90 3900	90 3650	90 96	
2	94 7030	94 5210	94 4910	94 4610	94 4330	94 98		5	91 6580	91 4900	91 4610	91 4330	91 4050	91 95	
5	94 7630	94 5540	94 5220	94 4910	94 4610	94 98		6	91 6750	91 5000	91 4710	91 4420	91 4140	91 95	
6	94 7860	94 5670	94 5340	94 5020	94 4710	94 98									

Figure 4-25 (Sheet 13)

TAKEOFF FIELD LENGTH - FEET

(OVER 35 FOOT SCREEN HEIGHT)

FLAPS - 15°
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 HEIGHT FROM MAXIMUM TAKEOFF HEIGHT TABLES.

WEIGHT = 12375 LBS							WEIGHT = 12200 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-30	101 9130	108 5940	109 5630	109 5320	109 5030	109 115	-30	102 8590	107 5770	107 5460	108 5160	108 4870	108 114
-25	100 10050	109 6390	109 6000	109 5680	110 5370	110 115	-25	101 9470	108 6140	108 5820	108 5510	108 5200	109 114
-24	100 10260	109 6410	110 6080	110 5760	110 5440	110 115	-22	100 10040	109 6390	109 6060	109 5730	109 5410	109 114
-22	99 10680	110 6580	110 6240	110 5910	110 5590	110 115	-21	100 10260	109 6470	109 6140	109 5810	109 5490	109 114

WEIGHT = 12000 LBS							WEIGHT = 11500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-30	102 8020	106 5580	106 5280	106 4990	106 4710	107 113	-30	105 6610	103 5120	103 4840	103 4570	103 4310	105 111
-25	102 8800	107 5940	107 5620	107 5320	107 5020	108 113	-25	104 7260	104 5440	104 5150	104 4860	104 4580	105 111
-21	101 9540	108 6250	108 5920	108 5600	108 5290	108 113	-20	103 8100	105 5830	105 5520	105 5210	105 4920	105 111
-20	101 9830	108 6370	108 6040	108 5710	108 5400	108 113	-17	103 8970	106 6220	106 5890	106 5570	106 5260	106 111
-17	100 10950	109 6810	109 6460	109 6110	109 5780	109 113	-14	102 10100	106 6690	106 6340	106 5990	106 5660	106 111

WEIGHT = 11000 LBS							WEIGHT = 10000 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-30	102 6010	100 4710	100 4450	100 4190	100 3940	102 109	-30	96 5030	93 3980	93 3740	93 3520	94 3300	97 104
-25	102 6390	101 4980	101 4700	101 4440	101 4180	102 108	-25	97 5270	94 4180	94 3940	94 3700	94 3470	97 104
-20	103 6880	101 5320	102 5030	102 4750	102 4480	103 108	-20	97 5610	95 4410	95 4160	95 3910	95 3680	97 104
-15	103 7820	103 5930	103 5610	103 5300	103 5000	103 108	-15	98 6280	96 4880	96 4610	97 4340	97 4080	98 104
-14	104 8070	104 6080	104 5760	104 5440	104 5130	104 108	-10	99 7240	98 5510	98 5200	98 4900	98 4610	99 103
-10	104 9410	104 6750	104 6390	104 6040	104 5700	104 108	-8	99 7710	99 5790	99 5460	99 5150	99 4850	99 103
-8	104 10440	105 7100	105 6730	105 6380	105 6040	105 108	-5	99 8520	99 6230	99 5890	99 5560	99 5230	99 103
							0	100 10120	100 7040	100 6680	100 6330	100 5990	100 103

WEIGHT = 9000 LBS							WEIGHT = 8500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-30	88 4220	86 3310	86 3110	86 2910	86 2720	91 99	-30	85 3930	84 3250	84 3040	84 2830	84 2630	88 97
-25	89 4420	87 3470	87 3260	87 3050	87 2860	91 99	-25	85 4020	83 3240	83 3020	83 2820	83 2610	88 97
-20	90 4650	88 3660	88 3440	88 3230	88 3020	91 99	-20	86 4230	84 3310	84 3100	84 2910	84 2710	88 96
-15	92 5050	89 3970	89 3740	90 3510	90 3290	92 99	-15	88 4570	85 3580	86 3370	86 3150	86 2950	89 96
-10	93 5720	91 4440	91 4180	91 3930	91 3690	93 98	-10	90 5070	87 3960	88 3720	88 3490	88 3270	90 96
-5	93 6530	93 4980	93 4700	93 4410	93 4140	93 98	-5	90 5740	89 4430	89 4170	89 3910	89 3670	90 96
0	94 7510	94 5570	94 5250	94 4940	94 4640	94 98	0	91 6500	91 4920	91 4640	91 4350	91 4080	91 95
3	94 8170	94 5930	94 5600	94 5270	94 4950	94 98	3	91 7020	91 5240	91 4930	91 4640	91 4350	91 95

Figure 4-25 (Sheet 14)

MODEL 525A

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

FLAPS - 15°
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								WEIGHT = 12200 LBS									
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2	
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS		
-31	99 10500	109 6550	109 6210	109 5880	110 5560	110	115	-30	100 10060	108 6430	108 6100	109 5770	109 5450	109	114		
-30	99 10690	109 6630	110 6280	110 5950	110 5620	110	115	-28	99 10420	109 6580	109 6240	109 5910	109 5580	109	114		
-28	99 11090	109 6830	110 6430	110 6090	110 5760	110	115	-25	99 11020	109 6820	109 6470	109 6120	109 5790	109	114		

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS									
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2	
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS		
-30	101 9380	107 6210	107 5880	107 5570	107 5260	108	113	-30	103 7760	104 5690	104 5380	104 5090	104 4800	105	111		
-25	100 10260	108 6580	108 6240	108 5910	108 5580	108	113	-25	102 8480	105 6020	105 5700	105 5390	105 5090	105	111		
-20	99 11650	109 7130	109 6760	109 6410	109 6060	109	113	-20	101 9600	106 6510	106 6170	106 5840	106 5510	106	111		
								-17	101 10620	106 6930	106 6570	106 6220	106 5880	106	111		

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS									
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2	
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS		
-30	102 6670	101 5200	101 4920	101 4650	101 4380	102	108	-30	97 5490	94 4360	94 4110	94 3870	95 3630	97	104		
-25	103 7070	101 5500	101 5200	102 4910	102 4630	103	108	-25	97 5780	95 4560	95 4300	95 4050	95 3810	97	104		
-20	103 7700	102 5930	102 5610	103 5300	103 5000	103	108	-20	98 6240	96 4890	96 4620	96 4360	96 4100	98	104		
-17	103 8430	103 6310	103 5970	103 5650	104 5330	104	108	-15	98 7010	97 5430	97 5130	97 4840	98 4550	98	103		
-15	103 9190	104 6630	104 6280	104 5940	104 5610	104	108	-11	99 7900	99 5990	99 5660	99 5340	99 5030	99	103		
-11	102 11090	105 7350	105 6970	105 6590	105 6230	105	108	-10	99 8160	99 6140	99 5810	99 5480	99 5160	99	103		
								-5	100 9710	100 6960	100 6590	100 6220	100 5860	100	103		
								-4	100 10090	100 7140	100 6760	100 6380	100 6030	100	103		

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS									
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2	
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS		
-30	89 4600	87 3620	87 3400	87 3190	87 2980	91	99	-30	85 4180	83 3330	83 3110	83 2900	84 2690	88	97		
-25	90 4800	88 3780	88 3550	88 3340	88 3120	91	99	-25	86 4360	84 3410	84 3210	84 3000	84 2810	88	96		
-20	91 5080	89 4010	89 3770	89 3550	89 3320	92	99	-20	87 4610	85 3620	85 3400	85 3190	85 2980	89	96		
-15	92 5590	90 4400	90 4140	90 3900	91 3660	92	99	-15	89 4990	86 3930	87 3690	87 3470	87 3250	89	96		
-10	93 6360	92 4930	92 4650	92 4380	92 4110	93	98	-10	90 5610	88 4390	88 4140	88 3880	89 3640	90	96		
-5	94 7320	94 5550	94 5240	94 4930	94 4630	94	98	-5	90 6390	90 4920	90 4630	90 4350	90 4080	90	96		
-4	94 7550	94 5690	94 5360	94 5050	94 4750	94	98	0	91 7300	91 5490	91 5170	91 4860	91 4560	91	95		
0	94 8500	94 6210	94 5870	94 5530	94 5200	94	98										

12-10-00

Figure 4-25 (Sheet 15)

SINGLE-ENGINE TAKEOFF FLIGHT PATH - FLAPS UP
FIRST AND SECOND SEGMENTS

Knowing weight, altitude, temperature, wind, obstacle height above runway surface and the obstacle distance from "reference zero", at the airport pressure altitude plus the takeoff climb increment (TCI) from Figure 4-28 or 4-29, determine the available climb gradient from Figure 4-38 or 4-39. Using this climb gradient, the required horizontal distance can be determined from Figure 4-26. If this required horizontal distance is less than the horizontal distance to the obstacle, the takeoff weight determined by other limitations is satisfactory; otherwise, the weight must be reduced to correspond with the required horizontal distance.

EXAMPLE:

- Flaps = 0°
- Anti-Ice = OFF
- Ambient Temperature at Airport = -20°C
- Pressure Altitude at Airport = SEA LEVEL
- Gross Weight at Brake Release = 12,000 POUNDS
- Wind = ZERO KNOTS
- A. Obstacle Height = 200 feet above runway surface
- B. Obstacle Horizontal Distance from Reference Zero = 4000 FEET

From Figure 4-28, the takeoff climb increment (TCI) above the runway surface is 1900 feet. The pressure altitude at the airport plus the takeoff climb increment (TCI) is 1900 feet.

From Figure 4-38, the available climb gradient at a pressure altitude of 1900 feet under the specific conditions is 7.0 percent.

From Figure 4-26, for 7.0 percent gradient, the required horizontal distance to clear the obstacle is 2910 feet.

The obstacle can be cleared since the horizontal distance to the obstacle (4000 feet) is greater than the required horizontal distance to clear the obstacle (2910 feet).

**SINGLE-ENGINE TAKEOFF FLIGHT PATH TO 1500 FEET
FIRST AND SECOND SEGMENT FLAPS - UP**

CONDITIONS: Landing Gear - DOWN/UP Inoperative Engine - WINDMILLING
Speed Brakes - RETRACT Operative Engine - TAKEOFF THRUST
Airspeed - V_2

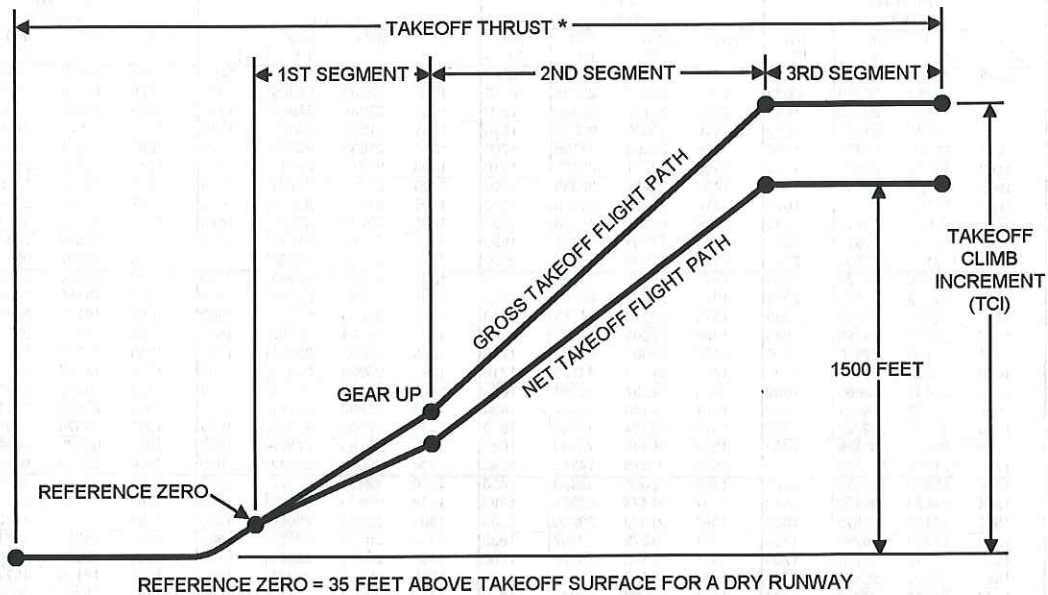
SECOND SEGMENT GRADIENT AT PRESSURE ALTITUDE AT AIRPORT PLUS TAKEOFF CLIMB INCREMENT - PERCENT													
HEIGHT ABOVE RUNWAY FT	16	14	12	11	10	9	8	7	6	5	4	3	2
	REQUIRED HORIZONTAL DISTANCE FROM REFERENCE ZERO - FEET												
50	110	130	150	170	190	220	250	300	370	490	720	1320	2480
100	480	560	670	740	830	940	1100	1310	1620	2040	2530	3340	4980
150	850	980	1180	1310	1470	1670	1930	2190	2540	3040	3780	5010	7480
200	1210	1410	1690	1870	2060	2280	2550	2910	3380	4040	5030	6680	9980
250	1580	1840	2140	2330	2560	2830	3180	3620	4210	5040	6280	8340	12480
300	1940	2200	2560	2790	3060	3390	3800	4330	5040	6040	7530	10010	14980
350	2250	2560	2980	3240	3560	3940	4430	5050	5880	7040	8780	11680	17480
400	2560	2920	3390	3690	4060	4500	5050	5760	6710	8040	10030	13340	19980
450	2880	3280	3810	4150	4560	5050	5680	6480	7540	9040	11280	15010	22480
500	3190	3630	4230	4600	5060	5610	6300	7190	8380	10040	12530	16680	24980
550	3500	3990	4640	5060	5560	6170	6930	7910	9210	11040	13780	18340	27480
600	3810	4350	5060	5510	6060	6720	7550	8620	10040	12040	15030	20010	29980
650	4130	4700	5480	5970	6560	7280	8180	9330	10880	13040	16280	21680	32480
700	4440	5060	5890	6420	7060	7830	8800	10050	11710	14040	17530	23340	34980
750	4750	5420	6310	6880	7560	8390	9430	10760	12540	15040	18780	25010	37480
800	5060	5780	6730	7330	8060	8940	10050	11480	13380	16040	20030	26680	39980
850	5380	6130	7140	7790	8560	9500	10680	12190	14210	17040	21280	28340	42480
900	5690	6490	7560	8240	9060	10050	11300	12910	15040	18040	22530	30010	44980
950	6000	6850	7980	8690	9560	10610	11930	13620	15880	19040	23780	31680	47480
1000	6310	7200	8390	9150	10060	11170	12550	14330	16710	20040	25030	33340	49980
1050	6630	7560	8810	9600	10560	11720	13180	15050	17540	21040	26280	35010	52480
1100	6940	7920	9230	10060	11060	12280	13800	15760	18380	22040	27530	36680	54980
1150	7250	8280	9640	10510	11560	12830	14430	16480	19210	23040	28780	38340	57480
1200	7560	8630	10060	10970	12060	13390	15050	17190	20040	24040	30030	40010	59980
1250	7880	8990	10480	11420	12560	13940	15680	17910	20880	25040	31280	41680	62480
1300	8190	9350	10890	11880	13060	14500	16300	18620	21710	26040	32530	43340	64980
1350	8500	9700	11310	12330	13560	15050	16930	19330	22540	27040	33780	45010	67480
1400	8810	10060	11730	12790	14060	15610	17550	20050	23380	28040	35030	46680	69980
1450	9130	10420	12140	13240	14560	16170	18180	20760	24210	29040	36280	48340	72480
1500	9440	10780	12560	13690	15060	16720	18800	21480	25040	30040	37530	50010	74980

525AFM-06-00

 Figure 4-26

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES - FLAPS UP

The data presented in Figure 4-28 (Anti-ice off) and Figure 4-29 (Anti-ice on) is for the purpose of determining the takeoff climb increment (TCI) and the horizontal distances along the net takeoff flight path. The net takeoff flight path is used to plan obstacle clearance.



* TAKEOFF THRUST IS LIMITED TO TEN MINUTES MAXIMUM AND THEREAFTER TO MAXIMUM CONTINUOUS THRUST.

SINGLE-ENGINE FLIGHT PATH CONDITIONS:			
	FIRST SEGMENT	SECOND SEGMENT	THIRD SEGMENT
LANDING GEAR	DOWN TRANSITION TO UP	UP	UP
WING FLAP DEGREES	0	0	0
SPEED BRAKES	RETRACT	RETRACT	RETRACT
INOPERATIVE ENGINE	WINDMILLING	WINDMILLING	WINDMILLING
OPERATIVE ENGINE	T.O. THRUST	T.O. THRUST	T.O. THRUST
AIRSPPEED	V ₂	V ₂	V ₂ TRANSITIONING TO V _{ENR}

EXAMPLE:

Flaps = UP
 Anti-Ice = OFF
 Pressure Altitude at Airport = 4000 FEET
 Gross Weight at Brake Release = 10,500 POUNDS
 Ambient Temperature at Airport = 10°C
 Wind = 10 KNOTS (HEADWIND)
 Airport Barometric Altitude = 3925 FEET MSL

Horizontal Distance and Takeoff Climb Increment from Figure 4-28
 Reference Zero to End of First Segment = 1414 FEET
 Reference Zero to End of Second Segment = 17,791 FEET
 Reference Zero to End of Third Segment = 19,243 FEET
 Takeoff Climb Increment (TCI) = 1630 FEET.

Calculate the level off altitude by adding the takeoff climb increment to the airport barometric altitude. $3925 + 1630 = 5555$ FEET.

Figure 4-27

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
SEA LEVEL**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
		1	-54	1465	60679	66060	2620	1288	51468	55561	2520	1229	48544	52256	2490	1111	42903
2	-30	1532	26630	29299	2030	1355	23207	25298	2000	1296	22089	24005	1990	1178	19890	21480	1970
3	-20	1560	26505	29262	1950	1383	23157	25326	1920	1324	22064	24054	1910	1206	19912	21570	1890
7	-10	1587	26304	29136	1870	1410	23039	25276	1850	1351	21972	24029	1840	1233	19871	21591	1820
5	0	1614	26075	28977	1800	1436	22893	25195	1780	1377	21853	23973	1770	1259	19804	21583	1750
	10	1640	25832	28800	1740	1462	22731	25095	1710	1403	21717	23897	1700	1285	19719	21554	1690
	20	1665	25621	29857	1680	1488	23455	26038	1660	1429	22421	24804	1650	1311	20382	22394	1630
	30	1692	32163	36213	1670	1514	28303	31535	1640	1455	27047	30030	1630	1337	24580	27099	1610
	40	1716	46895	52899	1720	1539	41019	45788	1680	1480	39127	43523	1670	1362	35437	39143	1640
	50	1741	90714	102823	1980	1564	77504	86882	1890	1505	73394	81972	1860	1387	65570	72698	1800
	53	1748	123112	157904	2190	1571	103132	115898	2050	1512	97092	108689	2010	1394	85807	95318	1930
1	-54	1456	56858	61791	2580	1279	48287	52040	2490	1220	45559	48963	2460	1102	40286	43051	2400
2	-30	1523	25669	28182	2020	1346	22362	24328	1990	1287	21282	23082	1980	1169	19155	20647	1960
2	-20	1551	25550	28145	1940	1373	22316	24355	1910	1314	21259	23130	1900	1196	19178	20734	1880
0	-10	1577	25359	28026	1870	1400	22205	24309	1840	1341	21174	23107	1830	1223	19141	20756	1810
0	0	1604	25140	27870	1800	1427	22066	24229	1770	1368	21061	23051	1760	1250	19079	20747	1740
0	10	1630	24905	27690	1730	1453	21910	24125	1710	1394	20930	22972	1700	1276	18997	20715	1680
	20	1656	25641	28666	1680	1479	22587	24999	1650	1420	21589	23814	1640	1302	19621	21497	1630
	30	1681	30842	34631	1660	1504	27146	30167	1630	1444	25933	28721	1620	1326	23563	25915	1600
	40	1706	44383	49929	1710	1529	38854	43260	1670	1470	37067	41128	1650	1352	33578	36999	1630
	50	1731	82601	93326	1930	1554	70849	79189	1840	1495	67169	74807	1820	1376	60133	66492	1770
	54	1740	121779	138394	2180	1563	102013	114359	2040	1504	96033	107247	2000	1386	84856	94048	1920
1	-54	1446	52932	57419	2540	1269	45006	48420	2450	1210	42477	45572	2430	1092	37578	40091	2370
2	-30	1514	24603	26922	2010	1337	21423	23236	1980	1278	20386	22045	1970	1160	18342	19716	1950
2	-20	1542	24482	26875	1930	1365	21379	23256	1900	1305	20364	22086	1890	1187	18364	19796	1880
0	-10	1569	24299	26753	1860	1391	21272	23207	1830	1332	20282	22059	1820	1214	18331	19813	1800
0	0	1595	24092	26601	1790	1418	21142	23128	1760	1359	20177	22004	1750	1241	18273	19803	1740
0	10	1621	23871	26432	1720	1444	20997	23032	1700	1385	20056	21931	1690	1267	18199	19775	1670
	20	1648	24554	27332	1670	1471	21628	23840	1640	1412	20670	22710	1640	1294	18782	20500	1620
	30	1669	29420	32941	1650	1492	25884	28689	1620	1433	24732	27318	1610	1315	22464	24645	1600
	40	1695	41775	46860	1690	1518	36579	40618	1650	1459	34901	38622	1640	1340	31619	34753	1610
	50	1718	74782	84196	1870	1541	64354	71717	1800	1482	61076	67825	1770	1364	54781	60409	1730
	55	1730	117035	132322	2140	1553	98241	109823	2010	1494	92533	103056	1970	1376	81837	90470	1890
1	-54	1436	49408	53465	2500	1259	42050	45136	2420	1200	39696	42493	2400	1082	35128	37397	2350
1	-30	1506	23571	25683	2000	1329	20526	22174	1970	1270	19530	21037	1970	1152	17566	18813	1950
8	-20	1533	23463	25641	1920	1356	20485	22192	1900	1297	19511	21075	1890	1179	17589	18888	1870
0	-10	1560	23291	25525	1850	1383	20386	22145	1820	1324	19433	21047	1810	1206	17559	18905	1800
0	0	1586	23096	25381	1780	1409	20265	22071	1750	1350	19337	20998	1750	1232	17507	18897	1730
0	10	1612	22890	25222	1710	1435	20129	21980	1690	1376	19225	20930	1680	1258	17440	18871	1670
	20	1638	23525	26050	1660	1460	20717	22727	1640	1401	19798	21650	1630	1283	17985	19543	1620
	30	1657	28079	31325	1640	1480	24702	27285	1610	1421	23600	25981	1600	1302	21435	23440	1590
	40	1682	39375	44006	1670	1505	34490	38166	1630	1446	32909	36296	1620	1328	29815	32665	1600
	50	1706	68110	76401	1820	1529	58794	65281	1760	1470	55846	61795	1730	1352	50163	55129	1690
	55	1718	101987	114759	2030	1541	86328	96098	1920	1482	81509	90410	1890	1364	72420	79758	1820
1	-54	1426	46239	49944	2470	1249	39372	42188	2390	1190	37174	39726	2370	1072	32901	34970	2320
1	-30	1497	22598	24534	1990	1320	19673	21182	1970	1261	18716	20096	1960	1143	16829	17968	1940
6	-20	1525	22495	24492	1910	1347	19635	21199	1890	1288	18699	20131	1880	1170	16852	18039	1860
0	-10	1551	22333	24381	1840	1374	19543	21154	1810	1315	18629	20107	1810	1197	16826	18056	1790
0	0	1577	22151	24245	1770	1400	19430	21084	1750	1341	18539	20059	1740	1223	16779	18049	1720
0	10	1603	21957	24095	1710	1426	19304	20999	1690	1367	18435	19995	1680	1249	16718	18026	1660
	20	1628	22548	24859	1650	1451	19853	21690	1630	1392	18970	20663	1620	1274	17228	18650	1610
	30	1645	26822	29840	1630	1467	23587	25987	1600	1408	22531	24742	1600	1290	20451	22311	1580
	40	1670	37168	41425	1650	1492	32565	35943	1620	1433	31073	34184	1610	1315	28151	30766	1590
	50	1694	62388	69775	1780	1517	53977	59767	1720	1458	51303	56616	1700	1339	46136	50572	1670
	55	1705	90128	101061	1950	1528	76763	85182	1850	1469	72609	80295	1830	1351	64707	71063	1770
1	-54	1416	43341	46759	2430	1239	36935	39531	2370	1179	34877	37228	2350	1061	30869	32774	2300
1	-30	1491	21654	23417	1990	1314	18850	20222	1960	1254	17931	19186	1950	1136	16119	17154	1930
4	-20	1518	21554	23369	1910	1341	18813	20232	1880	1282	17915	19214	1870	1164	16142	17218	1860
0	-10	1545	21398	23253	1830	1368	18724	20181	1810	1309	17848	19184	1800	1190	16117	17228	1780
0	0	1571	21222	23111	1760	1394	18615	20106	1740	1335	17761	19130	1730	1217	16073	17216	1720
0	10	1597	21035	22955	1700	1420	18495	20015	1680	1361	17661	19060	1670	1243	16015	17187	1660
	20	1623	21579	23643	1640	1446	19002	20642	1620	1387	18152	19662	1620	1269	16490	17758	1600
	30	1633	25628	28453	162												

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
SEA LEVEL

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1395	38306	41757	2380	1217	32665	35298	2320	1158	30846	33222	2300	1040	27295	29219	2270
	-30	1481	19868	21575	1970	1304	17298	18627	1940	1245	16458	17672	1940	1127	14790	15792	1920
	-20	1508	19780	21537	1890	1331	17267	18641	1870	1272	16442	17700	1860	1154	14813	15855	1840
	-10	1535	19643	21440	1820	1358	17190	18602	1790	1299	16386	17680	1790	1181	14795	15871	1770
	0	1561	19488	21320	1750	1384	17096	18541	1730	1325	16311	17639	1720	1207	14759	15867	1710
	10	1587	19324	21186	1680	1410	16992	18467	1660	1351	16226	17583	1660	1233	14712	15848	1650
	20	1613	19795	21793	1630	1436	17435	19022	1610	1377	16660	18122	1610	1259	15128	16356	1590
	30	1613	23373	26221	1600	1436	20541	22802	1580	1377	19614	21696	1570	1259	17787	19535	1560
	40	1632	31500	35536	1610	1455	27602	30803	1580	1396	26334	29281	1570	1278	23842	26317	1560
	50	1656	49168	55656	1690	1479	42727	47836	1640	1419	40660	45353	1630	1301	36637	40564	1600
	55	1667	65827	74658	1780	1490	56695	63587	1710	1431	53803	60118	1690	1313	48227	53485	1650
	1 0 5	-54	1368	33098	35891	2330	1190	28225	30342	2270	1131	26648	28562	2260	1013	23561	25105
-30		1469	17880	19107	1950	1292	15570	16523	1930	1233	14811	15680	1920	1115	13308	14023	1910
-20		1496	17807	19070	1870	1319	15545	16529	1850	1260	14802	15701	1840	1142	13331	14074	1830
-10		1523	17689	18979	1800	1345	15481	16491	1780	1286	14755	15680	1770	1168	13319	14086	1760
0		1549	17557	18870	1730	1372	15402	16435	1710	1313	14694	15641	1710	1194	13292	14081	1700
10		1575	17417	18750	1670	1397	15315	16368	1650	1338	14624	15591	1650	1220	13255	14063	1630
20		1600	17813	19237	1610	1423	15691	16819	1600	1364	14993	16031	1590	1246	13612	14481	1580
30		1595	20824	22985	1580	1418	18302	20013	1560	1359	17475	19049	1560	1241	15840	17159	1550
40		1599	27631	30935	1580	1422	24199	26811	1560	1363	23079	25481	1550	1245	20879	22890	1530
50		1623	41179	46248	1630	1446	35849	39839	1590	1387	34129	37793	1580	1269	30762	33823	1580
55		1634	52849	59456	1690	1457	45735	50906	1640	1398	43460	48200	1620	1280	39044	42993	1590
1 0 0		-54	1340	28802	31069	2280	1163	24545	26257	2240	1104	23163	24708	2220	986	20451	21692
	-30	1457	16127	16951	1930	1280	14040	14677	1910	1221	13353	13933	1910	1103	11993	12469	1890
	-20	1484	16081	16907	1860	1307	14018	14676	1840	1248	13347	13947	1830	1130	12016	12510	1820
	-10	1510	15959	16821	1780	1333	13965	14638	1770	1274	13308	13924	1760	1156	12009	12517	1750
	0	1536	15845	16720	1720	1359	13899	14585	1700	1300	13258	13887	1690	1182	11989	12510	1680
	10	1562	15725	16611	1650	1385	13825	14522	1640	1325	13199	13839	1630	1207	11960	12493	1620
	20	1585	16061	17002	1600	1408	14146	14889	1590	1349	13515	14199	1580	1231	12267	12837	1570
	30	1581	18579	20110	1570	1404	16331	17540	1550	1345	15593	16704	1540	1227	14132	15060	1530
	40	1569	24315	26976	1560	1392	21278	23375	1540	1333	20285	22211	1530	1215	18328	19935	1510
	50	1589	34954	38957	1590	1412	30451	33595	1550	1353	28990	31875	1540	1235	26129	28533	1520
	55	1601	43477	48530	1620	1423	37719	41675	1580	1364	35865	39490	1570	1246	32249	35265	1540
	9 5 0	-54	1312	25183	27020	2240	1135	21436	22816	2200	1076	20216	21460	2190	958	17818	18811
-30		1445	14561	15049	1920	1268	12672	13048	1900	1209	12051	12393	1890	1091	10818	11098	1880
-20		1472	14503	15002	1840	1295	12658	13045	1820	1236	12047	12399	1820	1117	10841	11130	1810
-10		1498	14414	14921	1770	1321	12610	13004	1750	1262	12015	12375	1750	1143	10837	11133	1740
0		1523	14316	14827	1700	1346	12554	12953	1690	1287	11973	12339	1680	1169	10822	11124	1670
10		1549	14212	14726	1640	1372	12492	12895	1630	1313	11925	12294	1620	1194	10800	11107	1610
20		1574	14499	15041	1590	1397	12768	13194	1570	1337	12197	12588	1570	1219	11066	11392	1560
30		1568	16619	17633	1550	1390	14608	15406	1540	1331	13946	14678	1530	1213	12636	13246	1520
40		1545	21396	23419	1540	1368	18716	20305	1520	1309	17838	19295	1510	1191	16105	17317	1500
50		1555	29964	33153	1550	1378	26102	28600	1520	1318	24840	27129	1510	1200	22369	24270	1500
55		1566	36379	40308	1570	1389	31594	34665	1540	1330	30045	32857	1530	1211	27013	29347	1510
9 0 0		-54	1289	22023	23422	2210	1112	18732	19777	2170	1053	17657	18597	2160	935	15541	16288
	-30	1433	13155	13361	1900	1256	11444	11602	1890	1197	10880	11024	1880	1079	9761	9878	1870
	-20	1459	13104	13313	1830	1282	11430	11591	1810	1223	10877	11024	1810	1105	9782	9902	1800
	-10	1485	13027	13235	1760	1308	11391	11553	1740	1248	10852	10999	1740	1130	9781	9902	1730
	0	1510	12942	13147	1690	1333	11344	11504	1680	1274	10817	10963	1670	1156	9771	9892	1670
	10	1535	12855	13057	1630	1358	11291	11449	1620	1299	10776	10920	1610	1181	9754	9873	1610
	20	1560	13098	13305	1580	1383	11530	11692	1560	1324	11012	11161	1560	1206	9985	10109	1550
	30	1553	14892	15477	1540	1376	13086	13545	1520	1317	12492	12912	1520	1199	11313	11662	1510
	40	1530	18831	20213	1520	1353	16475	17557	1500	1294	15701	16692	1500	1175	14172	14993	1480
	50	1518	25879	28428	1520	1341	22518	24507	1500	1282	21421	23241	1490	1164	19263	20768	1470
	55	1529	30820	33901	1530	1352	26764	29164	1500	1293	25445	27640	1490	1175	22858	24673	1480
	8 5 0	-54	1275	19245	20293	2180	1098	16369	17150	2150	1039	15428	16129	2140	921	13571	14126
-30		1420	11883	11933	1890	1242	10331	10369	1880	1183	9819	9854	1870	1065	8803	8831	1860
-20		1445	11839	11887	1820	1268	10320	10356	1800	1209	9818	9852	1800	1091	8823	8850	1790
-10		1471	11772	11815	1750	1294	10287	10320	1730	1235	9797	9827	1730	1117	8824	8849	1720
0		1496	11697	11734	1680	1319	10247	10275	1670	1260	9768	9794	1670	1142	8817	8838	1660
10		1521	11619	11648	1620	1344	10202	10225	1610	1285	9734	9755	1610	1167	8805	8822	1600
20		1544	11832	11854	1570	1367	10409	10427	1560	1308	9939	9956	1550	1190	9004	9018	1540
30		1538	13357	13696	1530	1361	11732	11997	1510	1302	11196	11439	1510	1183	10133	10334	1500
40		1513	16630	17628	1500	1336	14546	15325	1490	1277	13861	14574	1480	1159	12505	13094	1470
50		1487	223														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
1,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1488	51292	56005	2500	1311	43885	47506	2420	1252	41515	44810	2400	1134	36912	39609	2350
	-30	1557	26819	29587	2020	1380	23428	25606	1990	1321	22321	24319	1980	1203	20140	21806	1960
	-20	1585	26731	29595	1940	1408	23410	25673	1910	1349	22325	24406	1900	1231	20188	21928	1880
	-10	1613	26533	29479	1860	1436	23293	25631	1830	1377	22234	24387	1830	1258	20148	21955	1810
	0	1640	26307	29331	1790	1463	23148	25558	1770	1404	22116	24338	1760	1285	20080	21952	1740
	10	1666	26304	29507	1730	1489	23186	25744	1700	1430	22167	24528	1700	1312	20158	22151	1680
	20	1692	28760	32451	1690	1515	25358	28310	1660	1456	24249	26975	1650	1338	22066	24372	1640
	30	1719	36101	40834	1690	1542	31770	35554	1660	1483	30364	33859	1640	1364	27608	30565	1620
	40	1745	55205	62614	1770	1567	48171	54050	1720	1508	45920	51338	1710	1390	41547	46114	1670
	50					1592	104538	118003	2070	1533	98468	110705	2020	1415	87128	97183	1940
51									1536	110589	124484	2100	1418	97289	108615	2010	
1 2 0 0 0	-54	1480	48435	52788	2470	1302	41471	44815	2400	1243	39238	42280	2370	1125	34895	37383	2330
	-30	1548	25848	28453	2010	1371	22572	24620	1980	1312	21502	23380	1970	1193	19394	20957	1950
	-20	1576	25764	28460	1930	1398	22556	24684	1900	1339	21507	23463	1890	1221	19441	21075	1870
	-10	1603	25575	28349	1850	1426	22446	24645	1830	1367	21422	23446	1820	1249	19404	21102	1800
	0	1630	25362	28210	1780	1453	22310	24576	1760	1394	21312	23400	1750	1275	19343	21100	1730
	10	1656	25355	28368	1720	1479	22343	24747	1700	1420	21358	23576	1690	1302	19416	21286	1670
	20	1682	27661	31124	1680	1505	24386	27152	1650	1446	23317	25871	1650	1328	21212	23369	1630
	30	1708	34502	38914	1680	1531	30365	33890	1640	1472	29021	32277	1630	1354	26384	29136	1610
	40	1734	51886	58675	1750	1557	45321	50711	1700	1498	43214	48182	1690	1380	39117	43304	1660
	50	1759	110012	125174	2110	1582	93044	104639	1990	1523	87849	98419	1950	1404	78063	86793	1880
51					1584	103436	116439	2050	1525	97427	109242	2010	1407	86193	95899	1930	
1 2 0 0 0	-54	1469	45462	49452	2440	1292	38949	42012	2370	1233	36856	39642	2350	1115	32780	35057	2310
	-30	1537	24779	27203	2000	1360	21632	23534	1970	1301	20603	22347	1960	1183	18575	20025	1940
	-20	1565	24698	27205	1920	1388	21616	23592	1890	1329	20608	22423	1880	1211	18620	20135	1870
	-10	1593	24517	27090	1850	1416	21510	23548	1820	1357	20526	22401	1810	1239	18586	20156	1790
	0	1620	24311	26946	1780	1443	21380	23475	1750	1384	20421	22351	1740	1266	18528	20150	1730
	10	1648	24298	27080	1710	1470	21407	23624	1690	1411	20461	22506	1680	1293	18595	20318	1670
	20	1670	26471	29697	1670	1493	23331	25906	1650	1434	22305	24681	1640	1316	20283	22289	1620
	30	1696	32792	36875	1660	1519	28861	32121	1630	1460	27582	30592	1620	1342	25071	27613	1600
	40	1722	48458	54630	1720	1545	42366	47268	1680	1485	40407	44926	1670	1367	36590	40397	1640
	50	1746	96802	103692	2010	1569	82444	92389	1910	1510	78000	87087	1880	1392	69566	77102	1820
51	1751	119579	135798	2160	1574	100450	112742	2030	1515	94647	105822	1980	1397	83778	92963	1910	
1 1 8 0 0	-54	1459	42750	46384	2410	1282	36642	39429	2350	1223	34676	37210	2330	1105	30841	32910	2290
	-30	1529	23742	25950	1990	1352	20722	22453	1960	1293	19734	21321	1950	1175	17786	19103	1940
	-20	1557	23665	25949	1910	1380	20708	22506	1880	1320	19740	21391	1890	1202	17830	19206	1860
	-10	1584	23494	25839	1840	1407	20609	22463	1810	1348	19664	21369	1800	1230	17800	19226	1790
	0	1609	23301	25702	1770	1432	20488	22394	1740	1373	19566	21322	1740	1255	17747	19221	1720
	10	1637	23285	25817	1700	1460	20511	22527	1680	1401	19603	21461	1670	1283	17810	19374	1660
	20	1659	25331	28295	1660	1482	22321	24684	1640	1423	21337	23517	1630	1305	19397	21235	1620
	30	1684	31195	34946	1650	1507	27454	30446	1620	1448	26235	28997	1610	1330	23841	26172	1600
	40	1709	45365	50945	1700	1532	39691	44123	1660	1473	37863	41947	1650	1355	34295	37735	1620
	50	1734	86198	97233	1940	1557	73799	82362	1850	1498	69929	77765	1820	1380	62541	69057	1770
51	1739	103944	117430	2050	1562	88074	98409	1940	1503	83193	92617	1900	1385	73971	81756	1840	
1 1 6 0 0	-54	1449	40267	43606	2390	1271	34525	37084	2330	1212	32673	34998	2310	1094	29057	30954	2270
	-30	1520	22757	24783	1980	1343	19858	21444	1950	1284	18909	20361	1950	1166	17036	18240	1930
	-20	1548	22685	24779	1900	1371	19845	21492	1880	1312	18917	20428	1870	1194	17080	18338	1850
	-10	1575	22524	24674	1830	1398	19753	21452	1800	1339	18845	20406	1800	1221	17053	18357	1780
	0	1602	22342	24545	1760	1424	19640	21387	1740	1365	18754	20362	1730	1247	17008	18356	1710
	10	1628	22324	24644	1700	1451	19661	21506	1680	1391	18788	20488	1670	1273	17064	18493	1650
	20	1650	24230	26941	1650	1472	21347	23507	1630	1413	20405	22396	1620	1295	18545	20223	1610
	30	1672	29700	33176	1640	1494	26135	28905	1610	1435	24972	27528	1600	1317	22687	24841	1590
	40	1697	42558	47653	1680	1520	37257	41303	1640	1461	35545	39273	1630	1343	32201	35339	1610
	50	1721	77475	87099	1880	1544	66600	74100	1800	1485	63183	70053	1770	1367	56629	62353	1730
51	1726	91681	103191	1960	1549	78177	87063	1870	1490	73981	82100	1840	1372	66000	72730	1780	
1 1 4 0 0	-54	1438	37985	41057	2360	1261	32574	34926	2300	1202	30826	32963	2290	1084	27410	29151	2250
	-30	1512	21820	23674	1970	1335	19035	20485	1950	1276	18123	19450	1940	1158	16322	17421	1920
	-20	1539	21750	23664	1890	1362	19023	20526	1870	1303	18129	19507	1860	1185	16364	17510	1850
	-10	1567	21593	23551	1820	1390	18933	20477	1800	1331	18061	19479	1790	1212	16338	17522	1770
	0	1594	21417	23413	1750	1417	18824	20405	1730	1358	17973	19428	1720	1240	16293	17511	1710
	10	1620	21394	23490	1690	1443	18840	20504	1670	1384	18002	19535	1660	1266	16347	17635	1650
	20	1640	23187	25665	1650	1463	20426	22397	1620	1404	19522	21339	1620	1286	17738	19266	1600
	30	1659	28298	31521	1630	1482	24896	27461	1600	1423	23786	26151	1600	1305	21601	23593	1580
	40	1684	40001	44661	1660	1507	35033	38732	1630	1448	33426	36834	1610	1330	30282	33149	1590
	50																

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
1,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1000	-54	1417	33934	36563	2320	1239	29100	31109	2270	1180	27535	29357	2250	1082	24468	25950	2220
	-30	1502	20012	21467	1960	1325	17460	18595	1930	1266	16623	17661	1920	1148	14969	15827	1910
	-20	1529	19949	21451	1880	1352	17450	18627	1860	1293	16630	17708	1850	1175	15009	15904	1830
	-10	1557	19811	21346	1800	1380	17373	18581	1780	1320	16572	17681	1780	1202	14990	15913	1760
	0	1584	19657	21219	1740	1406	17278	18514	1720	1347	16498	17633	1710	1229	14953	15902	1700
	10	1610	19632	21269	1670	1432	17290	18588	1660	1373	16522	17716	1650	1255	15001	16003	1640
	20	1626	21216	23218	1630	1448	18689	20279	1610	1389	17861	19324	1600	1271	16224	17453	1590
	30	1633	25738	28535	1610	1456	22630	24852	1590	1397	21614	23661	1580	1279	19612	21332	1560
	40	1659	35508	39457	1630	1481	31112	34243	1600	1422	29685	32568	1590	1304	26889	29310	1570
	50	1683	58569	65297	1740	1506	50737	56014	1690	1447	48240	53083	1670	1328	43406	47450	1630
	52	1687	66697	74415	1790	1510	57526	63551	1720	1451	54620	60143	1700	1333	49020	53620	1660
	1050	-54	1389	29649	32233	2270	1212	25413	27384	2230	1153	24036	25824	2220	1035	21334	22784
-30		1490	18004	19314	1940	1313	15708	16729	1920	1254	14954	15887	1910	1136	13462	14233	1890
-20		1517	17949	19301	1860	1340	15700	16759	1840	1281	14961	15931	1830	1163	13499	14303	1820
-10		1544	17830	19213	1790	1367	15636	16723	1770	1308	14914	15911	1760	1190	13486	14316	1750
0		1571	17698	19106	1720	1394	15557	16669	1700	1335	14853	15874	1700	1216	13459	14312	1680
10		1597	17673	19145	1660	1419	15565	16732	1640	1360	14872	15946	1640	1242	13501	14400	1630
20		1612	19000	20792	1610	1435	16740	18162	1590	1376	15998	17307	1590	1258	14530	15629	1580
30		1608	22849	25523	1590	1431	20080	22202	1570	1372	19174	21127	1560	1254	17385	19025	1550
40		1626	30822	34662	1600	1449	27004	30047	1570	1390	25761	28562	1560	1271	23319	25670	1540
50		1649	47893	54038	1670	1472	41627	46463	1620	1413	39614	44057	1610	1295	35695	39410	1580
52		1654	53434	60331	1700	1477	46311	51724	1650	1418	44032	49000	1630	1300	39609	43758	1600
1100		-54	1361	26040	28157	2240	1183	22295	23903	2200	1124	21074	22530	2180	1006	18675	19851
	-30	1478	16228	17118	1920	1301	14157	14848	1900	1242	13475	14107	1890	1124	12126	12846	1880
	-20	1505	16180	17098	1840	1327	14151	14868	1830	1268	13483	14139	1820	1150	12161	12703	1810
	-10	1531	16078	17014	1770	1354	14096	14831	1750	1295	13444	14117	1750	1177	12153	12711	1740
	0	1558	15964	16915	1710	1381	14030	14779	1690	1322	13394	14081	1680	1204	12132	12704	1670
	10	1583	15939	16930	1640	1406	14036	14820	1630	1347	13410	14130	1620	1229	12169	12770	1610
	20	1599	17058	18293	1600	1421	15029	16007	1580	1362	14362	15261	1580	1244	13041	13793	1570
	30	1591	20269	22239	1570	1414	17814	19373	1550	1355	17009	18443	1540	1237	15418	16618	1530
	40	1592	26923	30043	1570	1415	23572	26037	1540	1356	22484	24749	1530	1238	20326	22221	1520
	50	1615	39925	44690	1610	1438	34759	38507	1570	1379	33090	36531	1560	1261	29828	32700	1540
	52	1620	43980	49159	1630	1443	38137	42273	1590	1384	36283	40079	1570	1266	32669	35835	1550
	1150	-54	1337	22888	24559	2200	1159	19578	20842	2170	1100	18497	19639	2160	982	16368	17286
-30		1466	14645	15187	1910	1289	12772	13192	1890	1229	12156	12538	1880	1111	10933	11247	1870
-20		1492	14603	15161	1830	1315	12768	13202	1810	1256	12164	12560	1810	1138	10966	11292	1800
-10		1519	14515	15080	1760	1342	12722	13164	1740	1283	12132	12536	1740	1164	10961	11296	1730
0		1545	14417	14987	1690	1368	12667	13115	1680	1309	12090	12500	1670	1191	10946	11287	1660
10		1570	14392	14985	1630	1393	12671	13138	1620	1334	12104	12532	1610	1216	10979	11336	1600
20		1585	15342	16117	1580	1408	13515	14127	1570	1349	12914	13475	1560	1231	11722	12190	1560
30		1577	18020	19382	1550	1400	15839	16914	1540	1341	15123	16110	1530	1223	13705	14528	1520
40		1561	23573	26044	1540	1384	20624	22569	1520	1325	19660	21445	1510	1207	17758	19246	1500
50		1580	33744	37490	1570	1403	29392	32332	1540	1344	27980	30676	1530	1226	25211	27456	1510
52		1585	36680	40776	1580	1407	31906	35117	1540	1348	30361	33304	1530	1230	27336	29785	1510
1200		-54	1320	20099	21297	2170	1143	17189	18091	2140	1084	16235	17049	2130	966	14357	15008
	-30	1453	13226	13474	1890	1276	11529	11721	1880	1217	10970	11144	1870	1099	9861	10003	1860
	-20	1479	13189	13443	1820	1302	11527	11724	1800	1243	10978	11158	1800	1125	9891	10039	1790
	-10	1505	13112	13366	1750	1328	11488	11685	1730	1269	10952	11133	1730	1151	9889	10038	1720
	0	1531	13027	13278	1680	1354	11441	11637	1670	1295	10917	11097	1660	1177	9879	10028	1650
	10	1556	13004	13262	1620	1379	11444	11647	1610	1320	10930	11115	1600	1202	9909	10063	1600
	20	1571	13814	14205	1570	1394	12165	12473	1560	1335	11621	11904	1550	1216	10543	10778	1550
	30	1562	16063	16922	1540	1385	14117	14792	1520	1326	13476	14096	1520	1208	12208	12723	1510
	40	1539	20635	22436	1520	1362	18050	19462	1500	1303	17202	18497	1500	1185	15528	16603	1480
	50	1543	28813	31775	1530	1366	25086	27402	1510	1307	23872	25993	1500	1189	21486	23246	1480
	52	1547	31046	34256	1540	1370	27004	29513	1510	1311	25690	27987	1500	1193	23111	25016	1480
	1250	-54	1306	17688	18564	2150	1129	15125	15782	2120	1070	14284	14876	2110	952	12623	13094
-30		1439	11944	12019	1880	1262	10405	10463	1870	1203	9900	9953	1860	1085	8889	8932	1850
-20		1465	11911	11987	1800	1288	10403	10462	1790	1229	9905	9959	1790	1111	8917	8961	1780
-10		1491	11843	11914	1740	1314	10370	10425	1720	1255	9884	9934	1720	1137	8918	8959	1710
0		1517	11769	11834	1670	1340	10330	10380	1660	1281	9855	9901	1650	1163	8911	8949	1650
10		1542	11748	11810	1610	1365	10333	10382	1600	1306	9866	9910	1600	1187	8938	8975	1590
20		1557	12442	12607	1560	1379	10951	11081	1550	1320	10459	10578	1550	1202	9483	9581	1540
30		1546	14341	14894	1520	1369	12598	13032	1510	1310	12024	12421	1510	1192	10886	11215	1500
40		1522	18095	19413	1500	1345	15827	16858	1490	1286	15082	16026	1480	1168	13609	14391	1470
50		1506	24766</														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
2,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1512	44034	48293	2410	1335	37934	41234	2340	1276	35969	38981	2320	1158	32137	34618	2280
	-30	1582	26735	29630	2010	1405	23414	25701	1970	1346	22327	24430	1960	1228	20187	21946	1940
	-20	1611	26658	29655	1920	1434	23400	25778	1900	1375	22335	24525	1890	1257	20237	22075	1870
	-10	1637	26482	29568	1850	1460	23300	25760	1820	1401	22261	24528	1810	1283	20210	22121	1800
	0	1666	26267	29435	1780	1489	23165	25699	1750	1430	22150	24490	1750	1312	20149	22127	1730
	10	1693	27447	30984	1730	1516	24228	27063	1700	1457	23177	25797	1690	1339	21105	23325	1670
	20	1720	31767	36101	1700	1543	28019	31490	1670	1484	26799	30008	1660	1366	24402	27121	1640
	30	1747	40372	45941	1710	1570	35523	39981	1670	1511	33953	38074	1660	1393	30881	34374	1640
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	46	1788	113129	129959	2140	1611	95695	108579	2020	1552	90374	102124	1980	1434	80366	90085	1910
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	10	1683	26419	29717	1720	1506	23316	25957	1690	1447	22301	24741	1680	1329	20302	22366	1670
	20	1710	30459	34480	1690	1533	26864	30083	1660	1474	25693	28667	1650	1356	23391	25809	1640
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	47	1780	111546	127645	2120	1603	94391	106715	2000	1544	89148	100387	1960	1426	79280	88572	1890
49									1549	111122	125428	2110	1431	97794	109465	2010	
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	-20	1590	24626	27239	1910	1413	21602	23671	1890	1354	20612	22515	1870	1236	18661	20255	1850
	-10	1618	24466	27152	1830	1441	21514	23649	1810	1382	20548	22515	1800	1264	18641	20294	1780
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	10	1673	25293	28345	1710	1495	22318	24759	1680	1436	21345	23599	1680	1318	19425	21331	1660
	20	1698	29063	32796	1680	1521	25630	28616	1650	1462	24511	27269	1640	1344	22308	24641	1630
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1 1 8 0 0	-54	1482	37322	40664	2340	1305	32177	34761	2280	1246	30513	32868	2270	1128	27256	29190	2230
	-40	1525	23661	25893	2060	1348	20647	22396	2030	1288	19660	21263	2020	1170	17715	19045	2000
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	-20	1581	23597	25999	1900	1404	20695	22595	1870	1345	19745	21491	1860	1227	17870	19331	1850
	-10	1609	23447	25916	1820	1432	20614	22574	1800	1373	19686	21490	1790	1255	17854	19369	1780
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	20	1686	27752	31219	1670	1508	24474	27245	1640	1449	23398	25956	1640	1331	21288	23450	1620
	30	1712	34478	38839	1660	1535	30355	33841	1630	1476	29012	32231	1620	1357	26366	29110	1600
	40	1737	53403	60364	1750	1560	46616	52138	1700	1501	44441	49529	1680	1383	40214	44500	1650
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1 6 0 0	-54	1472	35344	38406	2320	1294	30473	32837	2270	1235	28895	31049	2250	1117	25804	27571	2220
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	-20	1572	22621	24806	1890	1395	19834	21560	1860	1336	18921	20507	1860	1218	17119	18444	1840
	-10	1600	22480	24726	1820	1423	19758	21539	1790	1364	18866	20506	1780	1246	17105	18480	1770
	0	1627	22307	24607	1750	1450	19653	21484	1720	1391	18782	20470	1720	1273	17062	18483	1700
	10	1654	23189	25730	1690	1477	20455	22483	1670	1417	19560	21431	1660	1299	17791	19369	1650
	20	1673	26515	29711	1660	1496	23373	25924	1640	1437	22346	24701	1630	1319	20324	22311	1610
	30	1699	32716	36709	1650	1522	28805	31994	1620	1463	27532	30476	1610	1345	25032	27520	1590
	40	1725	49682	55928	1720	1548	43415	48371	1680	1489	41401	45968	1660	1371	37480	41327	1630
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1 4 0 0	-54	1461	33508	36337	2300	1284	28888	31069	2250	1225	27389	29376	2230	1107	24451	26079	2200
	-40	1507	21752	23613	2040	1330	18971	20425	2020	1271	18059	19390	2010	1153	16260	17362	1990
	-30	1536	21755	23691	1960	1358	19022	20542	1930	1299	18130	19524	1930	1181	16358	17517	1910
	-20	1563	21692	23695	1880	1386	19015	20594	1860	1327	18137	19587	1850	1209	16404	17614	1830
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	10	1645	22208	24515	1680	1468	19587	21426	1660	1409	18728	20424	1660	1291	17031	18460	1640
	20	1662	25324	28262	1650	1485	22319	24661	1630	1426	21337	23498	1620	1308	19400	21223	1600
	30	1687	31074	34763	1640	1509	27357	30300	1610	1450	26146	28863	1600	1332	23766	26060	1580

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
2,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1000	-54	1439	30201	32600	2260	1262	26026	27871	2220	1203	24669	26347	2210	1085	22004	23375	2180
	-40	1495	19959	21401	2030	1318	17408	18532	2000	1259	16571	17599	1990	1141	14916	15766	1980
	-30	1525	19961	21464	1940	1348	17454	18631	1920	1289	16632	17710	1910	1171	15006	15900	1900
	-20	1553	19904	21455	1860	1375	17448	18668	1840	1316	16642	17762	1830	1198	15048	15981	1820
	-10	1580	19782	21369	1790	1403	17384	18638	1770	1344	16597	17749	1760	1226	15040	16003	1750
	0	1608	19634	21249	1720	1431	17295	18577	1700	1372	16527	17706	1700	1253	15007	15996	1690
	10	1635	20338	22103	1670	1457	17941	19346	1650	1398	17155	18449	1640	1280	15600	16688	1630
	20	1643	23109	25524	1630	1465	20361	22283	1610	1406	19462	21232	1600	1288	17686	19176	1590
	30	1661	28103	31230	1620	1484	24732	27222	1590	1425	23632	25927	1580	1306	21466	23400	1570
	40	1686	40609	45258	1660	1509	35557	39245	1620	1450	33924	37321	1610	1332	30729	33586	1580
50	1710	72140	80695	1830	1533	62145	68820	1760	1474	58992	65110	1730	1356	52929	58027	1690	
1050	-54	1411	26639	28779	2230	1234	22935	24576	2190	1175	21727	23218	2180	1057	19353	20567	2150
	-40	1485	17959	19082	2010	1308	15663	16537	1980	1249	14909	15707	1980	1131	13416	14074	1960
	-30	1513	17959	19129	1920	1335	15703	16618	1900	1276	14962	15799	1900	1158	13495	14188	1880
	-20	1540	17908	19116	1850	1363	15698	16647	1830	1304	14972	15842	1820	1186	13535	14257	1810
	-10	1567	17804	19038	1770	1390	15645	16619	1760	1331	14936	15829	1750	1213	13531	14276	1740
	0	1596	17678	18932	1710	1419	15571	16565	1690	1360	14879	15792	1680	1241	13507	14272	1670
	10	1621	18268	19632	1650	1444	16117	17200	1630	1385	15410	16408	1630	1267	14010	14848	1620
	20	1626	20589	22520	1610	1449	18143	19677	1590	1390	17341	18754	1590	1272	15756	16943	1580
	30	1629	24862	27625	1590	1452	21863	24058	1570	1393	20882	22905	1560	1275	18949	20649	1550
	40	1653	34784	38795	1610	1475	30474	33653	1580	1416	29075	32002	1570	1298	26330	28789	1550
50	1676	57027	63809	1720	1499	49418	54739	1670	1440	46990	51874	1650	1322	42285	46364	1620	
1000	-54	1385	23542	25493	2190	1208	20247	21740	2160	1149	19171	20525	2150	1031	17052	18151	2130
	-40	1473	16190	17097	1990	1296	14118	14822	1970	1237	13436	14079	1960	1119	12086	12615	1950
	-30	1500	16188	17133	1910	1323	14152	14890	1890	1264	13483	14158	1880	1146	12157	12714	1870
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	-10	1556	16054	17050	1760	1378	14105	14889	1740	1319	13464	14183	1740	1201	12193	12792	1730
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	20	1612	18384	19957	1600	1435	16203	17451	1580	1376	15486	16635	1570	1258	14068	15032	1560
	30	1603	21999	24444	1570	1426	19336	21275	1550	1367	18463	20248	1540	1249	16740	18237	1530
	40	1618	30055	33691	1580	1441	26326	29204	1550	1382	25112	27760	1540	1264	22725	24945	1530
50	1642	46407	52185	1640	1465	40343	44888	1600	1406	38393	42567	1590	1287	34594	38082	1560	
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	-40	1461	14613	15172	1970	1284	12739	13172	1960	1224	12121	12516	1950	1106	10898	11222	1940
	-30	1488	14609	15194	1890	1310	12769	13223	1870	1251	12163	12577	1870	1133	10961	11302	1860
	-20	1515	14570	15172	1820	1337	12767	13237	1800	1278	12173	12603	1790	1160	10995	11350	1780
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	20	1583	14756	15349	1570	1406	13001	13469	1550	1347	12423	12853	1550	1229	11278	11636	1540
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	40	1552	22770	25045	1530	1375	19914	21702	1510	1316	18980	20620	1500	1198	17136	18501	1480
50	1568	32428	35908	1550	1391	28247	30974	1520	1332	26878	29377	1510	1214	24207	26286	1490	
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	-40	1434	11919	12005	1950	1257	10379	10445	1930	1198	9870	9931	1930	1080	8862	8911	1920
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	-10	1513	11825	11913	1720	1336	10376	10444	1710	1277	9897	9960	1710	1159	8947	8998	1700
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	10	1565	12067	12146	1600	1388	10633	10696	1590	1329	10160	10217	1590	1211	9221	9268	1580
	20	1568	13242	13558	1560	1391	11662	11911	1540	1332	11141	11369	1540	1214	10108	10297	1530
	30	1556	15315	16093	1520	1379	13459	14070	1510	1320	12848	13409	1500	1202	11637	12103	1490
	40	1533	19825														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
3,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1537	38409	42300	2330	1360	33270	36305	2280	1301	31616	34394	2260	1182	28370	30671	2230
	-30	1608	26593	29595	1990	1431	23339	25721	1960	1372	22276	24469	1950	1254	20181	22022	1930
	-20	1637	26515	29622	1910	1460	23327	25804	1880	1401	22285	24569	1870	1283	20236	22161	1850
	-10	1666	26383	29597	1840	1489	23264	25836	1810	1430	22244	24619	1800	1312	20233	22241	1780
	0	1692	26512	29950	1770	1515	23417	26173	1740	1456	22406	24953	1740	1338	20411	22570	1720
	10	1722	29661	33718	1730	1544	26199	29455	1700	1485	25070	28081	1690	1367	22849	25403	1680
	20	1749	35758	40854	1720	1572	31535	35623	1690	1513	30160	33942	1680	1395	27476	30686	1660
	30	1776	45983	52609	1740	1599	40423	45731	1700	1540	38630	43538	1680	1422	35119	39284	1660
	40	1803	85896	98833	1970	1626	73959	84091	1880	1567	70226	79531	1860	1448	63095	70892	1810
	43	1810	116301	134311	2170	1633	98348	112134	2040	1574	92882	105459	2000	1456	82620	93033	1930
44					1635	109516	125039	2110	1576	103155	117267	2070	1458	91316	102927	1980	
1 2 0 0 0	-54	1527	36613	40244	2310	1350	31724	34555	2260	1291	30140	32729	2250	1173	27037	29180	2220
	-30	1598	25603	28430	1980	1421	22464	24704	1950	1362	21437	23499	1940	1244	19413	21143	1920
	-20	1627	25528	28455	1900	1450	22453	24782	1870	1391	21447	23594	1860	1273	19463	21270	1850
	-10	1656	25403	28429	1830	1479	22393	24812	1800	1419	21409	23642	1790	1301	19467	21352	1780
	0	1683	25521	28754	1760	1506	22536	25125	1740	1447	21559	23952	1730	1329	19634	21659	1710
	10	1711	28467	32269	1720	1534	25141	28191	1700	1475	24056	26875	1690	1357	21919	24309	1670
	20	1738	34128	38875	1710	1561	30102	33909	1680	1502	28794	32314	1670	1384	26226	29212	1650
	30	1765	43495	49615	1720	1588	38258	43160	1680	1529	36566	41099	1670	1411	33259	37105	1640
	40	1792	78352	89840	1920	1614	67704	76735	1840	1555	64354	72657	1810	1437	57929	64899	1770
	44	1802	114234	131544	2150	1625	96659	109916	2020	1566	91299	103394	1980	1448	81224	91237	1910
46													1453	100361	112975	2030	
1 2 0 0 0	-54	1517	34712	38050	2290	1340	30077	32677	2250	1281	28574	30951	2230	1163	25627	27592	2200
	-30	1588	24528	27143	1970	1411	21513	23583	1940	1352	20527	22431	1930	1233	18581	20176	1920
	-20	1617	24456	27161	1890	1439	21503	23653	1870	1380	20536	22517	1860	1262	18629	20294	1840
	-10	1645	24335	27127	1820	1468	21446	23675	1790	1409	20500	22557	1790	1291	18634	20368	1770
	0	1673	24440	27418	1750	1495	21576	23958	1730	1436	20639	22839	1720	1318	18789	20649	1710
	10	1699	27189	30701	1710	1522	24008	26821	1690	1463	22969	25569	1680	1345	20923	23124	1660
	20	1726	32405	36761	1690	1549	28584	32075	1660	1490	27341	30568	1650	1372	24900	27635	1640
	30	1753	40912	46478	1700	1576	36004	40461	1660	1517	34415	38536	1650	1399	31307	34802	1630
	40	1779	71082	81134	1860	1602	61621	69547	1790	1543	58628	65921	1770	1425	52866	58996	1730
	46					1617	103802	117718	2060	1558	97853	110514	2020	1440	86734	97163	1940
47									1561	109804	124183	2090	1443	96768	108520	2000	
1 8 0 0 0	-54	1506	32954	36048	2280	1329	28553	30960	2230	1270	27124	29324	2220	1152	24320	26136	2190
	-30	1579	23493	25897	1960	1402	20602	22502	1930	1343	19655	21402	1930	1225	17787	19248	1910
	-20	1607	23425	25912	1880	1430	20593	22567	1860	1371	19665	21483	1850	1253	17834	19360	1830
	-10	1636	23311	25878	1810	1459	20540	22586	1790	1400	19632	21519	1790	1281	17840	19430	1760
	0	1663	23405	26139	1740	1486	20660	22844	1720	1427	19761	21777	1710	1309	17985	19689	1700
	10	1687	25995	29264	1700	1510	22948	25564	1680	1450	21952	24369	1670	1332	19989	22033	1650
	20	1714	30815	34846	1680	1537	27181	30409	1650	1477	25998	28980	1640	1359	23671	26197	1630
	30	1740	38570	43678	1680	1563	33955	38045	1650	1504	32459	36240	1640	1386	29535	32738	1620
	40	1766	64930	73850	1820	1589	56432	63482	1760	1530	53732	60223	1740	1412	48515	53977	1700
	47	1784	119034	136234	2160	1607	100272	113356	2030	1548	94577	106488	1990	1429	83906	93725	1910
48					1610	112512	127371	2110	1551	105809	119283	2060	1433	93370	104400	1970	
1 6 0 0 0	-54	1495	31326	34172	2260	1318	27139	29350	2220	1259	25777	27797	2200	1141	23104	24769	2170
	-40	1541	22502	24602	2040	1364	19678	21329	2010	1305	18753	20268	2000	1187	16927	18188	1980
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	-20	1598	22453	24715	1870	1421	19733	21528	1850	1362	18842	20494	1840	1244	17082	18467	1830
	-10	1626	22345	24681	1800	1449	19685	21544	1780	1390	18813	20527	1770	1272	17089	18532	1760
	0	1652	22429	24914	1740	1475	19795	21778	1710	1416	18931	20761	1710	1298	17225	18769	1690
	10	1676	24852	27834	1690	1499	21936	24320	1670	1440	20982	23183	1660	1322	19101	20961	1650
	20	1701	29342	33044	1670	1524	25880	28841	1640	1465	24751	27487	1630	1347	22530	24844	1620
	30	1727	36438	41094	1670	1550	32086	35811	1630	1491	30673	34116	1620	1373	27903	30818	1600
	40	1753	59655	67550	1780	1576	51954	58204	1730	1517	49497	55253	1710	1399	44738	49583	1670
48	1773	114846	130852	2120	1596	96929	109130	2000	1537	91471	102583	1960	1419	81218	90383	1890	
1 4 0 0 0	-54	1484	29813	32452	2240	1307	25823	27871	2200	1248	24524	26393	2190	1130	21972	23511	2160
	-40	1532	21579	23504	2030	1355	18866	20377	2000	1296	17977	19362	1990	1178	16221	17372	1980
	-30	1561	21592	23597	1940	1384	18926	20506	1920	1325	18051	19503	1910	1207	16324	17536	1890
	-20	1589	21533	23606	1870	1412	18920	20562	1840	1353	18063	19573	1830	1235	16370	17635	1820
	-10	1617	21429	23563	1790	1440	18873	20570	1770	1381	18035	19598	1760	1263	16378	17692	1750
	0	1645	21504	23771	1730	1467	18974	20782	1710	1408	18145	19812	1700	1290	16505	17910	1680
	10	1666	23765	26490	1680	1489	20974	23150	1660	1430	20060	22068	1650	1312	18256	19952	1640
	20	1688	27966	31395	1660	1511	24662	27402	1630	1452	23583	26113	1630	1334	21460	23598	1610
	30	1715	34475	38758	1650	1537	30361	33785	1620	1478	29023	32187	1610	1360	26398	29075	1590
	40	1740	55064	62139	1750	1563	48031	53637									

MODEL 525A

SECTION IV - PERFORMANCE
TAKEOFF

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF
FLAPS - 0°
3,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
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	-40	1522	19803	21287	2010	1345	17315	18478	1990	1286	16498	17563	1980	1168	14884	15767	1960
	-30	1551	19814	21363	1930	1374	17369	18587	1900	1315	16566	17684	1900	1196	14979	15909	1880
	-20	1579	19760	21359	1850	1402	17363	18627	1830	1343	16577	17738	1820	1225	15021	15991	1810
	-10	1607	19667	21310	1780	1430	17323	18627	1760	1371	16553	17753	1750	1253	15030	16037	1740
	0	1634	19727	21468	1710	1457	17409	18795	1690	1398	16647	17925	1690	1280	15142	16216	1680
	10	1649	21741	23948	1670	1472	19183	20942	1650	1413	18344	19966	1640	1295	16688	18054	1630
	20	1664	25436	28331	1640	1487	22419	24728	1620	1427	21433	23563	1610	1309	19490	21286	1590
	30	1688	30964	34565	1630	1511	27265	30140	1600	1452	26061	28714	1590	1334	23693	25933	1570
	40	1714	47397	53090	1690	1537	41434	45949	1650	1478	39515	43674	1640	1360	35775	39276	1610
48	1733	78600	88346	1870	1556	67590	75185	1790	1497	64132	71092	1770	1379	57505	63306	1720	
1 0 5	-54	1435	24045	25868	2180	1258	20790	22195	2150	1199	19727	21006	2140	1081	17632	18678	2120
	-40	1510	17827	18844	1990	1333	15587	16381	1970	1274	14851	15577	1960	1156	13394	13995	1950
	-30	1538	17835	18996	1910	1361	15633	16466	1890	1302	14909	15673	1880	1184	13477	14111	1870
	-20	1566	17786	18882	1830	1389	15629	16493	1810	1330	14920	15712	1810	1212	13516	14176	1790
	-10	1594	17706	18830	1760	1417	15595	16485	1740	1358	14901	15719	1740	1240	13527	14211	1730
	0	1621	17752	18940	1700	1444	15666	16609	1680	1385	14980	15848	1670	1266	13622	14351	1660
	10	1635	19434	20975	1650	1458	17152	18377	1630	1399	16402	17531	1630	1281	14919	15868	1610
	20	1638	22595	24840	1620	1461	19907	21693	1600	1402	19027	20672	1590	1284	17289	18672	1580
	30	1655	27209	30125	1600	1478	23946	26266	1570	1419	22881	25019	1570	1300	20782	22583	1550
	40	1680	39890	44298	1640	1503	34924	38418	1600	1444	33317	36535	1590	1326	30174	32879	1570
48	1699	61155	68096	1750	1522	52968	58413	1690	1463	50368	55366	1670	1345	45332	49508	1640	
1 0 0	-54	1413	21349	23023	2160	1236	18446	19733	2130	1177	17496	18667	2120	1059	15621	16576	2100
	-40	1498	16078	16937	1970	1321	14055	14725	1950	1262	13389	14002	1950	1144	12071	12576	1940
	-30	1525	16093	16979	1890	1348	14095	14797	1870	1289	13441	14084	1870	1171	12145	12678	1860
	-20	1553	16040	16965	1820	1376	14092	14820	1800	1317	13451	14119	1790	1199	12181	12736	1780
	-10	1581	15970	16918	1750	1404	14064	14814	1730	1345	13437	14125	1720	1226	12193	12768	1710
	0	1607	16005	17006	1680	1430	14123	14916	1670	1371	13503	14233	1660	1253	12275	12887	1650
	10	1621	17421	18724	1630	1444	15375	16410	1620	1385	14702	15655	1610	1267	13370	14170	1600
	20	1623	20041	21954	1600	1446	17662	19182	1580	1387	16881	18281	1570	1269	15338	16514	1560
	30	1624	23968	26708	1570	1447	21079	23257	1550	1388	20134	22140	1550	1270	18269	19955	1530
	40	1645	33989	38080	1600	1468	29772	33014	1570	1409	28402	31387	1560	1291	25715	28221	1540
48	1664	49233	55299	1660	1487	42813	47589	1620	1428	40752	45141	1600	1310	36741	40414	1580	
9 5 0	-54	1401	18928	20185	2130	1224	16355	17319	2100	1164	15512	16387	2100	1046	13845	14557	2080
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	-20	1540	14482	15101	1800	1363	12720	13206	1790	1304	12139	12584	1780	1186	10987	11357	1770
	-10	1568	14421	15054	1730	1390	12696	13195	1720	1331	12128	12586	1710	1213	11000	11382	1700
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	20	1608	17832	19229	1580	1431	15716	16824	1560	1372	15021	16040	1560	1254	13645	14499	1550
	30	1601	21106	23282	1550	1424	18556	20281	1530	1364	17721	19308	1530	1246	16069	17400	1520
	40	1609	29225	32660	1560	1432	25590	28307	1540	1373	24406	26904	1530	1255	22078	24170	1510
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9 0 0	-54	1387	16835	17672	2110	1210	14541	15180	2090	1151	13788	14368	2080	1033	12300	12769	2060
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	-30	1500	13117	13405	1860	1322	11487	11712	1850	1263	10950	11155	1840	1145	9883	10052	1830
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	0	1579	13051	13365	1660	1402	11509	11756	1650	1343	11000	11227	1640	1225	9990	10179	1630
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	40	1571	25297	28046	1530	1394	22130	24295	1510	1335	21095	23083	1500	1217	19056	20715	1490
48	1590	33934	37715	1560	1413	29580	32551	1530	1354	28167	30893	1520	1235	25398	27670	1500	
8 5 0	-54	1373	14994	15550	2090	1196	12948	13371	2070	1137	12275	12658	2060	1019	10941	11250	2050
	-40	1459	11848	11928	1930	1281	10343	10405	1920	1222	9846	9902	1910	1104	8860	8906	1900
	-30	1485	11848	11934	1850	1308	10370	10436	1840	1249	9982	9942	1830	1131	8912	8962	1830
	-20	1512	11818	11905	1780	1335	10369	10437	1770	1276	9891	9952	1760	1158	8941	8991	1750
	-10	1539	11772	11855	1710	1362	10353	10418	1700	1303	9885	9944	1690	1185	8954	9003	1690
	0	1565	11788	11874	1650	1388	10389	10456	1640	1329	9927	9989	1630	1210	9009	9061	1620
	10	1577	12659	12881	1600	1400	11163	11337	1580	1341	10669	10829	1580	1223	9688	9822	1570
	20	1577	14210	14743	1550	1400	12517	12938	1540	1341	11960	12345	1540	1223	10854	11175	1530
	30	1568	16439	17475	1520	1390	14452	15268	1500	1331	13798	14547	1500	1213	12503	13127	1490
	40	1541	21914	24106													

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
4,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1562	34035	37645	2270	1384	29630	32465	2230	1325	28199	30799	2210	1207	25392	27556	2180
	-40	1604	26431	29421	2060	1427	23193	25565	2030	1368	22135	24319	2020	1250	20050	21882	2000
	-30	1635	26463	29575	1970	1458	23279	25759	1950	1399	22238	24525	1940	1280	20186	22113	1920
	-20	1664	26385	29607	1900	1487	23266	25844	1870	1428	22246	24627	1860	1310	20235	22247	1840
	-10	1693	26531	29907	1820	1516	23443	26155	1800	1457	22433	24941	1790	1339	20441	22568	1770
	0	1722	27843	31642	1770	1545	24824	27680	1740	1486	23573	26402	1730	1368	21502	23906	1720
	10	1750	32958	37704	1750	1573	29115	32930	1710	1514	27865	31397	1710	1396	25411	28412	1690
	20	1778	40485	46527	1740	1601	35685	40535	1710	1542	34131	38619	1690	1424	31093	34907	1670
	30	1806	54850	63304	1790	1629	48055	54800	1740	1570	45879	52110	1730	1452	41656	46935	1690
	40	1832	120111	139514	2200	1655	101496	116332	2070	1596	95846	109381	2030	1478	85261	96470	1950
41					1660	113738	130538	2150	1600	107097	122366	2100	1482	94773	107333	2010	
1 2 2 0 0	-54	1552	32557	35937	2260	1375	28342	30994	2210	1316	26971	29403	2200	1198	24280	26303	2170
	-30	1625	25475	28407	1970	1448	22404	24737	1940	1389	21399	23550	1930	1270	19417	21227	1910
	-20	1654	25401	28435	1890	1477	22392	24817	1860	1418	21407	23646	1850	1300	19464	21355	1830
	-10	1683	25535	28715	1820	1506	22557	25108	1790	1447	21582	23941	1780	1329	19659	21658	1770
	0	1711	26761	30330	1760	1534	23663	26531	1730	1475	22650	25304	1730	1357	20655	22907	1710
	10	1740	31527	35960	1730	1563	27852	31414	1700	1504	26656	29951	1700	1385	24304	27103	1680
	20	1768	38462	44065	1730	1590	33914	38410	1690	1531	32441	36601	1680	1413	29555	33088	1660
	30	1795	51433	59161	1770	1618	45113	51285	1720	1559	43086	48788	1700	1441	39140	43973	1680
	40	1822	105989	122541	2100	1645	90283	103073	1990	1586	85456	97156	1950	1468	76336	86074	1890
	41	1824	118124	136755	2180	1647	99889	114149	2050	1588	94344	107355	2010	1470	83943	94720	1940
42					1651	111388	127480	2120	1592	104916	119545	2080	1474	92886	104924	1990	
1 2 0 0 0	-54	1541	30972	34116	2240	1364	26958	29422	2200	1305	25652	27910	2190	1187	23085	24961	2160
	-30	1614	24393	27119	1960	1437	21445	23613	1930	1378	20480	22477	1920	1260	18576	20255	1900
	-20	1644	24321	27141	1880	1466	21433	23685	1850	1407	20488	22566	1840	1289	18622	20375	1830
	-10	1672	24441	27391	1810	1495	21585	23949	1780	1436	20650	22834	1770	1318	18804	20653	1760
	0	1700	25579	28990	1750	1523	22614	25272	1720	1464	21644	24102	1720	1346	19731	21815	1700
	10	1727	29904	34106	1720	1550	26497	29798	1690	1491	23537	28410	1690	1373	23114	25706	1670
	20	1755	36326	41482	1710	1578	32040	36177	1680	1519	30649	34476	1670	1401	27923	31171	1650
	30	1782	47923	54932	1740	1605	42080	47682	1700	1546	40200	45376	1680	1428	36537	40924	1660
	40	1809	93245	107335	2010	1632	79966	90942	1910	1573	75840	85905	1880	1454	67989	76400	1830
	42	1814	113559	131029	2140	1637	96223	109627	2020	1578	90931	103168	1980	1460	80979	91123	1910
44													1465	99891	112657	2030	
1 1 8 0 0	-54	1530	29491	32392	2220	1353	25664	27935	2190	1294	24417	26497	2170	1176	21966	23691	2150
	-30	1605	23352	25840	1950	1428	20527	22502	1920	1369	19601	21420	1910	1251	17774	19301	1890
	-20	1634	23278	25851	1870	1457	20516	22567	1840	1398	19609	21501	1840	1280	17818	19412	1820
	-10	1663	23395	26085	1800	1486	20657	22810	1770	1427	19760	21749	1770	1309	17989	19670	1750
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	10	1716	28563	32348	1710	1539	25229	28265	1680	1480	24142	26949	1680	1362	22001	24381	1660
	20	1742	34360	39072	1700	1565	30311	34091	1670	1506	28996	32491	1660	1388	26415	29380	1640
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	44	1806	122154	140581	2190	1629	102865	116877	2050	1570	97026	109784	2010	1451	86105	96630	1930
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1 1 6 0 0	-54	1519	28110	30809	2210	1342	24455	26565	2170	1283	23264	25195	2160	1165	20919	22520	2140
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	-10	1654	22407	24876	1790	1476	19781	21755	1770	1417	18920	20742	1760	1299	17219	18758	1740
	0	1681	23384	26143	1730	1504	20668	22878	1710	1445	19778	21821	1700	1327	18022	19750	1690
	10	1702	27231	30744	1700	1525	24048	26863	1670	1466	23009	25611	1670	1348	20962	23166	1650
	20	1730	32556	36901	1680	1553	28722	32205	1650	1493	27475	30695	1640	1375	25026	27755	1620
	30	1756	41959	47722	1700	1579	36899	41506	1660	1520	35264	39521	1650	1402	32068	35673	1620
	40	1783	74699	85231	1880	1606	64634	72919	1800	1546	61460	69078	1780	1428	55361	61755	1740
	45	1795	117308	134529	2150	1618	99009	112137	2020	1559	93445	105407	1980	1441	83010	92887	1900
46					1622	110919	125810	2090	1563	104386	117901	2050	1445	92249	103331	1960	
1 1 4 0 0	-54	1508	26820	29311	2200	1331	23325	25269	2160	1272	22185	23963	2150	1154	19940	21411	2130
	-40	1558	21419	23406	2010	1381	18772	20338	1990	1322	17904	19342	1980	1204	16189	17389	1960
	-30	1587	21445	23517	1930	1410	18836	20477	1900	1351	17983	19492	1900	1233	16296	17560	1880
	-20	1616	21377	23517	1850	1439	18827	20529	1830	1380	17991	19559	1820	1262	16337	17656	1810
	-10	1645	21468	23697	1780	1468	18949	20728	1760	1409	18122	19764	1750	1291	16488	17873	1740
	0	1674	22380	24877	1720	1496	19778	21775	1700	1437	18925	20770	1690	1319	17240	18800	1680
	10	1690	25988	29222	1690	1512	22945	25534	1670	1453	21951	24342	1660	1335	19991	22014	1640
	20	1716	30895	34872	1670	1539	27257	30441	1640	1480	26073	29015	1630	1362	23743	26235	1620
	30	1743	39420	44638	1680	1566	34683	38854	1640	1507	33150	37003	1630	1389	30149	33410	1610
	40	1769	67745	76936	1830												

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
4,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
		1	-54	1486	24472	26617	2170	1309	21266	22935	2140	1250	20219	21744	2130	1132	18153
1	-40	1548	19651	21200	1990	1371	17224	18442	1970	1312	16428	17545	1960	1194	14852	15783	1950
0	-30	1577	19668	21283	1910	1400	17282	18558	1890	1341	16498	17671	1880	1223	14948	15929	1870
0	-20	1606	19612	21279	1840	1429	17274	18598	1810	1370	16507	17725	1810	1252	14988	16010	1790
0	-10	1634	19689	21424	1770	1457	17381	18763	1750	1398	16622	17897	1740	1280	15122	16195	1730
0	0	1661	20475	22413	1710	1484	18099	19646	1690	1425	17318	18747	1680	1306	15776	16981	1670
0	10	1669	23671	26353	1670	1492	20896	23037	1650	1433	19987	21964	1640	1315	18194	19863	1630
0	20	1690	27938	31329	1650	1513	24641	27351	1620	1454	23565	26068	1610	1336	21447	23562	1600
0	30	1717	35025	39391	1640	1540	30832	34319	1610	1481	29470	32690	1600	1362	26799	29521	1580
0	40	1742	56801	64043	1750	1565	49503	55235	1700	1506	47170	52449	1680	1388	42645	47087	1650
0	46	1758	86407	97741	1920	1580	74116	82928	1840	1521	70277	78348	1810	1403	62949	69674	1760
1	-54	1463	21831	23511	2150	1286	18958	20260	2120	1227	18017	19205	2110	1109	16160	17136	2090
1	-40	1536	17692	18756	1980	1359	15506	16341	1950	1300	14788	15553	1950	1181	13366	14001	1930
0	-30	1563	17704	18815	1890	1386	15556	16432	1870	1327	14850	15653	1870	1209	13451	14121	1850
0	-20	1593	17656	18803	1820	1416	15550	16457	1800	1357	14859	15693	1790	1238	13488	14186	1780
0	-10	1621	17720	18910	1750	1444	15643	16588	1730	1385	14959	15830	1730	1267	13606	14337	1710
0	0	1647	18379	19706	1690	1470	16248	17305	1670	1411	15547	16522	1670	1293	14160	14981	1660
0	10	1650	21073	23049	1650	1473	18602	20176	1630	1414	17791	19243	1630	1296	16190	17413	1610
0	20	1659	24705	27413	1620	1482	21778	23936	1600	1423	20820	22810	1590	1305	18931	20609	1580
0	30	1683	30445	33933	1610	1505	26799	29579	1580	1446	25612	28175	1580	1328	23276	25439	1560
0	40	1708	46670	52132	1680	1531	40794	45123	1630	1472	38902	42890	1620	1354	35215	38559	1590
0	46	1723	65967	73852	1780	1546	57096	63282	1720	1487	54282	59962	1700	1368	48852	53603	1660
1	-54	1448	19440	20603	2120	1271	16881	17780	2100	1212	16042	16860	2090	1094	14383	15054	2070
1	-40	1523	15962	16608	1960	1346	13988	14493	1940	1287	13338	13801	1930	1169	12048	12431	1920
0	-30	1551	15971	16647	1880	1374	14031	14562	1860	1315	13392	13879	1850	1197	12126	12531	1840
0	-20	1580	15929	16625	1800	1402	14028	14577	1790	1343	13402	13906	1780	1225	12161	12582	1770
0	-10	1608	15982	16702	1730	1430	14106	14677	1720	1371	13489	14013	1710	1253	12264	12703	1700
0	0	1634	16539	17343	1670	1456	14620	15259	1660	1397	13988	14577	1650	1279	12737	13231	1640
0	10	1636	18784	20090	1630	1459	16584	17822	1620	1400	15861	16818	1610	1282	14432	15235	1600
0	20	1635	21849	23860	1600	1458	19253	20852	1580	1399	18403	19875	1570	1281	16724	17961	1560
0	30	1647	26627	29395	1580	1470	23423	25623	1560	1411	22377	24403	1550	1293	20317	22020	1540
0	40	1672	39045	43195	1620	1495	34179	37464	1590	1436	32604	35628	1570	1318	29522	32061	1550
0	46	1687	52453	58131	1680	1510	45617	50086	1640	1451	43427	47533	1620	1333	39173	42609	1590
9	-54	1436	17351	18421	2100	1259	15065	15892	2080	1200	14315	15067	2070	1082	12829	13445	2050
9	-40	1510	14418	15023	1940	1333	12631	13104	1930	1274	12042	12475	1920	1156	10875	11232	1910
0	-30	1538	14425	15057	1860	1361	12669	13165	1850	1302	12090	12545	1840	1184	10942	11319	1830
0	-20	1566	14387	15039	1790	1389	12666	13180	1770	1330	12099	12571	1770	1212	10974	11367	1760
0	-10	1594	14432	15105	1720	1417	12735	13268	1710	1358	12175	12665	1700	1240	11065	11475	1690
0	0	1620	14904	15654	1660	1443	13173	13768	1650	1384	12602	13150	1640	1266	11471	11930	1630
0	10	1622	16788	17991	1620	1445	14822	15777	1600	1385	14175	15055	1600	1267	12894	13632	1590
0	20	1620	19314	21141	1580	1443	17024	18475	1560	1384	16272	17609	1560	1266	14785	15908	1550
0	30	1617	23328	26067	1560	1439	20508	22683	1540	1380	19586	21588	1530	1262	17765	19447	1520
0	40	1636	33091	37189	1580	1459	28977	32224	1550	1400	27640	30628	1540	1282	25017	27525	1520
0	46	1650	42817	48206	1620	1473	37328	41581	1580	1414	35557	39468	1570	1296	32101	35377	1540
9	-54	1423	15517	16189	2080	1246	13469	13966	2060	1187	12796	13266	2050	1069	11461	11844	2040
9	-40	1497	13031	13315	1930	1320	11411	11632	1920	1261	10876	11078	1910	1143	9816	9982	1900
0	-30	1525	13036	13334	1850	1348	11443	11677	1840	1289	10918	11132	1830	1171	9876	10052	1820
0	-20	1553	13002	13309	1780	1375	11442	11683	1760	1316	10927	11148	1760	1198	9905	10088	1750
0	-10	1580	13040	13353	1710	1403	11501	11748	1700	1344	10993	11220	1690	1226	9986	10175	1680
0	0	1605	13443	13797	1650	1428	11874	12154	1640	1369	11360	11618	1630	1251	10335	10550	1620
0	10	1607	15033	15739	1600	1429	13270	13829	1590	1370	12689	13203	1580	1252	11537	11967	1580
0	20	1604	17131	18327	1560	1427	15100	16047	1550	1368	14432	15303	1540	1250	13109	13838	1530
0	30	1595	20428	22396	1540	1418	17957	19515	1520	1359	17147	18579	1510	1241	15546	16744	1500
0	40	1597	28318	31542	1540	1420	24785	27330	1520	1361	23633	25972	1510	1243	21367	23323	1490
0	46	1612	35600	39718	1570	1434	31063	34307	1530	1375	29592	32572	1520	1257	26710	29200	1500
8	-54	1409	13893	14300	2060	1232	12053	12365	2050	1173	11447	11730	2040	1055	10245	10475	2030
8	-40	1482	11776	11850	1920	1305	10305	10363	1900	1246	9819	9872	1900	1128	8855	8999	1890
0	-30	1510	11779	11859	1840	1333	10334	10396	1830	1274	9856	9914	1820	1156	8909	8956	1810
0	-20	1538	11749	11830	1770	1361	10333	10396	1750	1302	9865	9923	1750	1184	8936	8984	1740
0	-10	1565	11781	11860	1700	1388	10384	10447	1690	1329	9923	9980	1680	1211	9007	9055	1670
0	0	1590	12126	12223	1640	1413	10708	10784	1630	1354	10240	10310	1620	1236	9310	9368	1620
0	10	1591	13475	13855	1590	1414	11887	12187	1580	1354	11367	11642	1570	1236	10329	10558	1570
0	20	1587	15230														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
5,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1587	30573	33976	2220	1410	26727	29415	2180	1351	25475	27945	2170	1233	23012	25078	2140
	-40	1631	26323	29435	2040	1454	23151	25629	2010	1395	22114	24399	2000	1277	20070	21994	1980
	-30	1662	26332	29566	1960	1485	23221	25808	1930	1426	22202	24591	1920	1308	20192	22212	1900
	-20	1692	26343	29733	1880	1515	23276	25997	1850	1456	22273	24790	1850	1338	20294	22429	1830
	-10	1722	27093	30776	1820	1545	23975	26939	1790	1486	22956	25700	1780	1367	20947	23280	1760
	0	1751	30337	34731	1780	1574	26844	30382	1750	1515	25705	28982	1740	1397	23464	26254	1720
	10	1780	37266	42884	1770	1603	32912	37433	1730	1544	31499	35687	1720	1426	28731	32296	1700
	20	1808	46482	53785	1780	1631	40915	46775	1730	1572	39122	44545	1720	1454	35625	40236	1690
	30	1836	68960	80241	1880	1659	60043	68988	1820	1600	57221	65470	1800	1482	51782	58751	1760
	37 38					1678	105607	121817	2100	1619	99682	114458	2060	1501	88618	100844	1980
									1623	111698	128368	2140	1505	98759	112456	2050	
1 2 0 2 0 0	-54	1576	29331	32526	2210	1399	25637	28158	2170	1340	24433	26749	2160	1222	22064	23999	2130
	-40	1621	25344	28276	2040	1444	22284	24616	2010	1385	21282	23432	2000	1267	19308	21116	1980
	-30	1652	25357	28404	1950	1475	22350	24785	1920	1416	21366	23613	1910	1297	19425	21323	1900
	-20	1682	25359	28552	1870	1505	22401	24961	1850	1445	21432	23799	1840	1327	19522	21527	1820
	-10	1710	26059	29523	1810	1533	23055	25840	1780	1474	22072	24650	1770	1356	20135	22324	1760
	0	1740	29089	33204	1770	1563	25737	29049	1740	1504	24644	27710	1730	1386	22491	25099	1710
	10	1769	35507	40733	1750	1592	31365	35569	1720	1533	30020	33913	1710	1415	27381	30693	1690
	20	1797	43914	50643	1760	1620	38681	44083	1720	1561	36993	41991	1700	1443	33695	37944	1680
	30	1825	63808	73964	1840	1648	55683	63754	1780	1589	53100	60548	1770	1471	48109	54409	1730
	38 39	1847	122741	142975	2220	1669	103656	119114	2080	1610	97877	111977	2040	1492	87065	98743	1960
					1674	116121	133625	2160	1615	109324	125228	2110	1496	96731	109811	2030	
1 2 0 0 0	-54	1566	27991	30972	2190	1389	24460	26809	2160	1330	23308	25465	2150	1212	21040	22840	2120
	-40	1642	24278	27104	1940	1465	21393	23649	1910	1406	20448	22530	1910	1288	18584	20340	1890
	-30	1671	24276	27234	1860	1494	21439	23809	1840	1435	20509	22700	1830	1317	18681	20535	1810
	-20	1699	24936	28164	1800	1522	22055	24648	1770	1463	21112	23511	1770	1345	19252	21287	1750
	-10	1728	27745	31573	1750	1551	24544	27622	1730	1492	23499	26348	1720	1374	21440	23861	1700
	0	1757	33638	38464	1740	1580	29718	33599	1710	1520	28444	32036	1700	1402	25941	28996	1680
	10	1785	41233	47386	1740	1608	36342	41282	1700	1549	34761	39332	1690	1430	31669	35554	1660
	20	1812	58665	67739	1810	1635	51302	58527	1750	1576	48951	56222	1740	1458	44398	50045	1700
	30	1836	117788	136657	2180	1659	99724	114190	2050	1600	94229	107435	2010	1482	83916	94868	1930
	40 41 42					1661	111152	127483	2120	1602	104750	119605	2080	1484	92823	105061	1990
													1488	103986	117875	2060	
1 8 0 0 0	-54	1555	26729	29488	2180	1378	23350	25521	2150	1319	22247	24239	2130	1201	20073	21734	2110
	-40	1632	23244	25823	1930	1455	20478	22535	1910	1396	19572	21469	1900	1278	17782	19381	1880
	-30	1662	23240	25939	1850	1485	20520	22680	1830	1426	19629	21624	1820	1308	17869	19555	1810
	-20	1690	23850	26792	1790	1513	21092	23453	1770	1454	20189	22371	1760	1336	18405	20255	1740
	-10	1715	26480	30014	1740	1538	23420	26259	1720	1479	22420	25046	1710	1361	20449	22678	1690
	0	1744	31903	36329	1720	1567	28187	31743	1700	1508	26980	30271	1690	1390	24600	27396	1670
	10	1772	38789	44382	1720	1595	34204	38693	1680	1536	32720	36873	1670	1418	29811	33340	1650
	20	1799	54169	62250	1770	1622	47448	53892	1720	1563	45296	51248	1710	1445	41116	46156	1680
	30	1826	112941	130452	2130	1649	95827	109282	2010	1590	90599	102890	1980	1472	80761	90963	1910
	41 42					1651	106512	121647	2080	1592	100446	114224	2040	1474	89129	100496	1960
									1596	112841	128546	2120	1478	99529	112376	2030	
1 6 0 0	-54	1544	25538	28112	2170	1367	22301	24324	2140	1308	21244	23099	2120	1190	19159	20703	2100
	-40	1623	22264	24633	1920	1446	19610	21497	1900	1387	18740	20479	1890	1269	17021	18485	1870
	-30	1653	22258	24736	1850	1475	19649	21630	1820	1416	18793	20622	1820	1298	17103	18647	1800
	-20	1680	22824	25522	1780	1503	20181	22344	1760	1444	19315	21313	1750	1326	17604	19296	1740
	-10	1705	25271	28523	1730	1527	22348	24958	1710	1468	21392	23805	1700	1350	19506	21553	1690
	0	1729	30288	34380	1710	1552	26759	30045	1680	1493	25609	28649	1680	1375	23348	25928	1660
	10	1759	36551	41681	1700	1582	32242	36357	1670	1523	30843	34651	1660	1405	28103	31335	1640
	20	1786	50202	57481	1740	1609	44031	49842	1700	1550	42049	47417	1680	1432	38193	42739	1660
	30	1812	98187	112868	2030	1635	83982	95379	1930	1576	79586	90026	1900	1458	71245	79954	1840
	42 43	1817	121081	139642	2180	1640	102113	116250	2040	1581	96367	109246	2000	1463	85611	96251	1930
					1644	114690	130801	2130	1585	107900	122515	2080	1467	95323	107302	1990	
1 4 0 0	-54	1534	24403	26768	2160	1356	21303	23159	2130	1297	20289	21991	2110	1179	18291	19705	2090
	-40	1615	21326	23465	1910	1438	18781	20482	1890	1378	17946	19513	1880	1260	16296	17613	1870
	-30	1644	21318	23551	1840	1467	18816	20599	1820	1408	17995	19640	1810	1290	16373	17760	1790
	-20	1670	21851	24301	1770	1493	19316	21278	1750	1434	18485	20297	1740	1316	16843	18375	1730
	-10	1695	24122	27068	1720	1517	21329	23692	1700	1458	20415	22599	1690	1340	18612	20462	1680
	0	1718	28783	32539	1700	1541	25427	28439	1670	1482	24332	27118	1670	1364	22178	24540	1650
	10	1746	34496	39168	1690	1569	30435	34181	1650	1509	29116	32580	1640	1391	26527	29467	1620
	20	1773	46675	53201	1720	1596	40981	46192	1680	1537	39147	43962	1660	1418	35572	39649	1640
	30	1799	86621	99051	1950	1622	74525	84240	1860	1563	70746	79662	1830	1445	63530	70991	1780
	43 44	1807	115879	133040	2130	1630	97959	111064	2010	1571	92506	104454	1970	1			

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
5,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1000	-54	1515	22297	24256	2140	1338	19455	20988	2110	1279	18524	19928	2100	1161	16687	17851	2080
	-40	1575	19551	21135	1980	1398	17178	18429	1960	1339	16398	17548	1950	1221	14857	15817	1930
	-30	1604	19556	21206	1900	1427	17224	18533	1880	1368	16458	17663	1870	1250	14942	15954	1860
	-20	1634	19546	21267	1820	1456	17254	18625	1800	1397	16501	17765	1790	1279	15012	16076	1780
	-10	1659	20007	21907	1760	1482	17689	19207	1740	1423	16928	18329	1730	1305	15422	16605	1720
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	10	1692	26088	29277	1680	1515	23036	25589	1650	1456	22038	24397	1650	1338	20073	22068	1630
	20	1719	30888	34804	1660	1542	27254	30390	1630	1483	26071	28969	1620	1365	23744	26199	1600
	30	1746	40735	46058	1680	1569	35816	40068	1640	1509	34226	38152	1630	1391	31115	34438	1600
	40	1772	69675	78972	1830	1595	60414	67739	1760	1535	57482	64220	1740	1417	51833	57492	1700
	44	1782	96261	109476	1990	1605	82218	92442	1890	1546	77869	87222	1860	1427	69613	77391	1800
	1050	-54	1500	19926	21362	2110	1323	17384	18505	2090	1264	16551	17575	2080	1145	14903	15749
-40		1562	17593	18678	1960	1385	15457	16312	1940	1326	14754	15539	1930	1208	13363	14017	1920
-30		1591	17595	18727	1880	1414	15496	16392	1860	1355	14806	15630	1850	1237	13439	14129	1840
-20		1619	17583	18762	1800	1442	15521	16458	1790	1383	14843	15706	1780	1265	13500	14225	1770
-10		1647	17970	19279	1740	1470	15889	16932	1720	1411	15204	16166	1720	1293	13849	14659	1700
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10		1665	23122	25596	1660	1488	20410	22386	1630	1429	19522	21345	1630	1311	17770	19308	1610
20		1685	27129	30286	1630	1508	23927	26449	1600	1448	22882	25209	1600	1330	20823	22789	1580
30		1711	34864	39038	1630	1534	30677	34007	1600	1475	29318	32391	1590	1357	26652	29249	1570
40		1737	55394	62147	1730	1560	48294	53638	1670	1501	46022	50943	1660	1382	41612	45751	1630
44		1747	71644	80545	1820	1570	61926	68904	1750	1511	58856	65262	1730	1392	52949	58309	1690
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	-40	1549	15866	16534	1940	1372	13937	14461	1930	1313	13302	13783	1920	1195	12044	12443	1910
	-30	1578	15866	16565	1860	1401	13972	14523	1850	1342	13348	13854	1840	1224	12111	12533	1830
	-20	1607	15854	16580	1790	1430	13993	14568	1770	1371	13381	13909	1770	1253	12166	12608	1760
	-10	1632	16180	16997	1720	1455	14305	14954	1710	1395	13688	14285	1700	1277	12464	12966	1690
	0	1648	17592	18679	1670	1471	15558	16424	1650	1412	14889	15687	1650	1294	13565	14236	1640
	10	1648	20488	22231	1630	1471	18088	19476	1620	1412	17301	18580	1610	1294	15744	16621	1600
	20	1656	23875	26328	1600	1479	21051	23005	1580	1420	20126	21927	1580	1301	18300	19816	1560
	30	1675	30121	33418	1600	1498	26502	29126	1570	1439	25323	27743	1560	1321	23004	25043	1540
	40	1701	45294	50339	1650	1523	39600	43596	1610	1464	37765	41444	1600	1346	34184	37278	1570
	44	1710	56141	62490	1710	1533	48816	53817	1660	1474	46475	51072	1640	1356	41934	45787	1610
	950	-54	1474	16013	16660	2070	1297	13967	14469	2050	1238	13295	13752	2040	1120	11962	12338
-40		1537	14330	14722	1930	1359	12584	12892	1910	1300	12009	12290	1910	1182	10868	11101	1900
-30		1565	14329	14742	1850	1388	12615	12939	1830	1329	12049	12347	1830	1211	10928	11176	1820
-20		1595	14318	14745	1780	1417	12634	12971	1760	1358	12079	12389	1760	1240	10978	11236	1750
-10		1618	14595	15088	1710	1441	12901	13291	1700	1382	12342	12701	1690	1264	11234	11535	1680
0		1634	15792	16491	1660	1457	13965	14520	1640	1398	13363	13874	1640	1280	12171	12600	1630
10		1633	18199	19427	1620	1456	16070	17045	1600	1397	15370	16268	1590	1279	13984	14739	1580
20		1633	21011	22884	1580	1456	18521	20010	1560	1397	17705	19076	1560	1279	16092	17244	1550
30		1638	26194	28982	1570	1461	23030	25244	1550	1402	21997	24036	1540	1284	19961	21674	1520
40		1663	37727	41813	1600	1486	33025	36260	1570	1427	31502	34480	1560	1309	28519	31019	1530
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	-40	1523	12953	13257	1920	1346	11370	11607	1900	1287	10848	11065	1900	1169	9811	9991	1890
	-30	1550	12953	13271	1840	1373	11398	11648	1820	1314	10885	11114	1820	1196	9866	10056	1810
	-20	1579	12942	13271	1760	1402	11415	11675	1750	1343	10911	11149	1750	1225	9911	10109	1740
	-10	1602	13178	13563	1700	1425	11643	11948	1690	1366	11137	11417	1680	1248	10132	10366	1670
	0	1619	14195	14757	1640	1442	12549	12995	1630	1383	12007	12417	1630	1265	10930	11274	1620
	10	1617	16209	17232	1600	1440	14312	15123	1590	1381	13687	14434	1580	1263	12449	13075	1570
	20	1617	18519	20094	1560	1440	16326	17577	1550	1381	15606	16757	1540	1263	14181	15147	1530
	30	1607	22809	25375	1540	1430	20042	22076	1520	1371	19137	21009	1520	1253	17349	18919	1500
	40	1624	31850	35665	1560	1447	27883	30902	1530	1388	26601	29379	1520	1270	24060	26388	1500
	44	1634	37447	41988	1580	1457	32703	36288	1540	1398	31166	34463	1530	1280	28158	30920	1510
	850	-54	1446	12939	13205	2040	1269	11275	11481	2020	1210	10726	10914	2020	1092	9638	9791
-40		1509	11709	11777	1900	1332	10272	10324	1890	1272	9797	9845	1890	1154	8854	8894	1880
-30		1536	11708	11781	1830	1359	10296	10353	1810	1300	9829	9882	1810	1182	8903	8947	1800
-20		1564	11697	11771	1750	1387	10311	10369	1740	1328	9853	9906	1740	1210	8943	8987	1730
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10		1601	14463	15069	1590	1424	12765	13244	1570	1365	12205	12646	1570	1247	11095	11464	1560
20		1599	16374	17418	1550	1422	14433	15259	1530	1363	13795	14554	1530	1245	12529	13165	1520
30		1587	19847	21687	1520	1410	17441	18895	1500	1351	16651	17988	1500	1233	15090	16208	1490
40		1583	2														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
6,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS				
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	
		1	-54	1613	27877	31152	2180	1436	24459	27057	2140	1377	23343	25735	2130	1259	21147	23154
2	-40	1658	26292	29554	2030	1481	23173	25780	2000	1422	22154	24560	1990	1304	20143	22177	1970	
3	-30	1690	26306	29697	1950	1513	23242	25965	1920	1453	22239	24758	1910	1335	20263	22399	1890	
7 5	-20	1720	26557	30115	1870	1543	23514	26382	1840	1484	22518	25175	1830	1366	20555	22815	1820	
	-10	1751	28505	32605	1810	1574	25254	28563	1790	1515	24192	27260	1780	1397	22102	24716	1760	
	0	1781	33981	39145	1790	1604	30069	34234	1760	1545	28797	32657	1750	1427	26299	29590	1730	
	10	1810	42635	49378	1800	1633	37620	43048	1760	1574	36000	41028	1740	1456	32833	37116	1720	
	20	1839	54719	63778	1830	1662	48040	55293	1780	1603	45902	52612	1760	1485	41749	47452	1730	
33 34	30	1867	91659	107556	2030	1690	78916	91352	1940	1631	74957	86381	1910	1513	67423	77011	1860	
	33	1876	120016	141305	2220	1699	101613	117906	2090	1640	96038	110912	2050	1522	85603	97948	1970	
	34				2220	1701	112517	130704	2160	1642	106075	122623	2110	1524	94118	107771	2020	
	1	-54	1604	26800	29880	2170	1426	23514	25955	2130	1367	22438	24685	2120	1249	20320	22204	2100
	2	-40	1648	25315	28388	2020	1471	22306	24759	1990	1412	21321	23586	1980	1294	19380	21291	1960
2 0 0	-30	1679	25327	28522	1940	1502	22370	24933	1910	1443	21403	23772	1900	1325	19494	21501	1880	
	-20	1710	25568	28918	1860	1533	22627	25325	1840	1474	21666	24164	1830	1356	19770	21894	1810	
	-10	1740	27378	31228	1810	1563	24254	27359	1780	1504	23232	26109	1770	1386	21219	23669	1750	
	0	1770	32474	37294	1780	1593	28738	32623	1750	1534	27522	31122	1740	1416	25131	28199	1720	
	10	1799	40422	46661	1780	1622	35684	40706	1740	1563	34151	38803	1730	1445	31150	35113	1710	
34 36	20	1828	51299	59573	1800	1651	45091	51723	1750	1592	43098	49235	1740	1474	39222	44439	1710	
	30	1856	82993	96940	1970	1679	71780	82754	1890	1620	68270	78367	1860	1502	61557	70055	1810	
	34	1867	116464	136501	2190	1690	98819	114209	2060	1631	93451	107514	2020	1513	83376	95064	1950	
	36				2190	1690	98819	114209	2060	1637	114896	132415	2160	1519	101522	115904	2060	
	1	-54	1592	25645	28525	2150	1415	22488	24767	2120	1356	21456	23552	2110	1238	19422	21178	2090
1 0 0	-40	1638	24234	27075	2010	1461	21349	23616	1980	1402	20405	22496	1970	1284	18541	20304	1960	
	-30	1669	24245	27202	1930	1492	21410	23779	1900	1433	20482	22671	1890	1315	18649	20502	1890	
	-20	1700	24462	27560	1850	1523	21649	24141	1830	1464	20727	23034	1820	1345	18908	20867	1800	
	-10	1728	26165	29756	1800	1551	23172	26065	1770	1491	22193	24872	1760	1373	20263	22542	1750	
	0	1757	30862	35329	1770	1580	27312	30910	1740	1521	26154	29488	1730	1403	23879	26717	1710	
36 37	10	1787	38095	43823	1760	1609	33644	38254	1730	1550	32201	36471	1710	1432	29374	33009	1690	
	20	1815	47787	55286	1770	1638	42051	48066	1730	1579	40205	45772	1720	1461	36608	41341	1690	
	30	1843	74738	86903	1910	1666	64903	74520	1840	1607	61801	70663	1820	1489	55845	63320	1770	
	36	1859	123159	143795	2220	1682	104084	119866	2080	1623	98309	112711	2040	1505	87506	99445	1960	
	37				2220	1686	116258	134083	2160	1627	109491	125695	2110	1509	96953	110295	2030	
1 8 0	-54	1582	24533	27179	2140	1405	21507	23599	2110	1346	20517	22441	2100	1228	18565	20175	2080	
	-40	1629	23204	25795	2000	1452	20438	22503	1970	1393	19532	21436	1970	1275	17743	19346	1950	
	-30	1660	23212	25909	1920	1483	20494	22653	1890	1424	19604	21598	1880	1306	17845	19531	1870	
	-20	1690	23413	26238	1840	1513	20717	22988	1820	1454	19834	21934	1810	1336	18089	19870	1800	
	-10	1718	24993	28267	1790	1541	22132	24767	1760	1481	21195	23635	1750	1363	19348	21421	1740	
37 39	0	1745	29357	33467	1750	1568	25977	29285	1730	1509	24875	27938	1720	1390	22706	25311	1700	
	10	1774	35957	41184	1740	1597	31765	35970	1710	1537	30404	34297	1700	1419	27735	31048	1680	
	20	1802	44636	51398	1750	1625	39313	44740	1710	1566	37596	42618	1700	1448	34244	38514	1670	
	30	1830	67815	78439	1860	1653	59076	67503	1800	1594	56305	64077	1780	1476	50962	57529	1740	
	37	1847	117471	136441	2170	1670	99572	114137	2040	1611	94123	107428	2010	1493	83895	94943	1930	
1 6 0	-54	1572	23467	25896	2130	1395	20569	22487	2100	1336	19620	21383	2090	1218	17748	19222	2070	
	-40	1620	22227	24606	1990	1443	19573	21467	1970	1384	18703	20449	1960	1266	16985	18453	1940	
	-30	1651	22233	24709	1910	1474	19626	21606	1880	1415	18771	20599	1880	1296	17082	18625	1860	
	-20	1681	22420	25013	1830	1504	19834	21916	1810	1445	18986	20911	1800	1326	17311	18942	1790	
	-10	1708	23884	26883	1780	1531	21148	23558	1750	1472	20251	22482	1750	1354	18482	20376	1730	
39 40	0	1732	27948	31760	1740	1555	24727	27792	1720	1496	23675	26513	1710	1378	21604	24016	1690	
	10	1761	33987	38797	1730	1584	30029	33897	1700	1524	28743	32324	1690	1406	26217	29262	1670	
	20	1789	41791	47950	1730	1612	36833	41776	1690	1553	35230	39804	1680	1435	32097	35985	1650	
	30	1816	61915	71328	1820	1639	54068	61554	1760	1580	51570	58478	1740	1462	46736	52579	1710	
	39				1820	1663	106191	121536	2080	1604	100185	114164	2040	1486	89975	100521	1960	
1 4 0	-54	1564	22459	24667	2120	1387	19681	21422	2090	1328	18767	20366	2080	1210	16975	18310	2070	
	-40	1593	21190	23216	2070	1406	18612	20215	2050	1347	17767	19241	2040	1229	16097	17330	2020	
	-30	1613	21286	23419	1980	1436	18743	20439	1960	1377	17909	19471	1950	1259	16260	17573	1930	
	-20	1643	21292	23514	1900	1466	18793	20568	1880	1407	17973	19611	1870	1289	16353	17734	1850	
	-10	1673	21464	23789	1830	1496	18987	20851	1800	1437	18175	19897	1800	1319	16568	18026	1780	
40	0	1698	22837	25557	1770	1521	20217	22402	1750	1462	19358	21379	1740	1344	17663	19376	1720	
	10	1719	26626	30134	1730	1542	23552	26370	1710	1483	22548	25155	1700	1365	20568	22782	1680	
	20	1747	32164	36560	1710	1570	28417	31949	1680	1511	27203	30471	1680	1393	24808	27586	1660	
	30	1775	39210	44784	1710	1598	34575	39049	1670	1539	33074	37214	1660	1421	30136	33653	1640	
	40	1803	58820	65140	1780	1626	49716	56344	1730	1567	47445	53564	1710	1449	43040	48219	1680	
40	1829	120334	138934	2170	1652	1016												

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
6,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1551	20560	22330	2100	1374	18015	19408	2080	1315	17181	18459	2070	1197	15532	16596	2050
	-40	1603	19522	21184	1970	1425	17192	18510	1940	1366	16427	17640	1940	1248	14912	15930	1920
	-30	1632	19525	21257	1880	1455	17236	18616	1860	1396	16484	17756	1860	1278	14996	16067	1840
	-20	1662	19674	21484	1810	1485	17405	18854	1790	1426	16661	17998	1780	1308	15186	16316	1770
	-10	1685	20863	23008	1750	1508	18472	20192	1730	1449	17687	19277	1720	1331	16136	17482	1710
	0	1697	24167	27093	1710	1520	21373	23720	1690	1461	20458	22628	1680	1343	18654	20492	1670
	10	1721	28900	32637	1690	1544	25533	28531	1660	1484	24435	27208	1650	1366	22274	24625	1640
	20	1748	34699	39361	1670	1571	30616	34354	1640	1512	29290	32747	1630	1394	26687	29621	1610
	30	1773	48451	55140	1720	1597	42511	47850	1680	1538	40600	45531	1660	1420	36878	41053	1630
	40	1802	90109	103008	1960	1625	77365	87417	1870	1566	73397	82614	1840	1447	65835	73536	1790
42	1807	109890	125989	2080	1630	93219	105571	1970	1571	88119	99393	1930	1453	78515	87855	1860	
1 0 5	-54	1538	18437	19661	2080	1361	16156	17117	2060	1302	15407	16287	2050	1184	13924	14656	2040
	-40	1590	17563	18690	1950	1412	15466	16358	1930	1353	14777	15596	1920	1235	13411	14097	1910
	-30	1619	17563	18739	1870	1442	15504	16438	1850	1383	14826	15686	1840	1265	13484	14210	1830
	-20	1649	17688	18915	1790	1472	15649	16628	1770	1413	14978	15881	1770	1294	13649	14410	1760
	-10	1671	18677	20147	1730	1494	16540	17715	1710	1435	15837	16922	1710	1317	14446	15362	1700
	0	1676	21451	23619	1690	1499	18970	20704	1670	1440	18156	19757	1660	1322	16548	17901	1650
	10	1688	25437	28414	1660	1510	22462	24844	1640	1451	21490	23690	1630	1333	19572	21433	1620
	20	1713	30088	33772	1640	1536	26549	29498	1610	1477	25396	28120	1600	1359	23129	25435	1590
	30	1740	40515	45604	1660	1563	35616	39678	1630	1504	34031	37783	1610	1386	30932	34105	1590
	40	1766	67786	76540	1800	1589	58799	65695	1740	1530	55963	62306	1720	1412	50476	55802	1680
42	1771	78695	89000	1870	1594	67859	75918	1790	1535	64455	71850	1770	1417	57930	64114	1720	
1 0 0	-54	1526	16573	17356	2060	1348	14521	15134	2040	1289	13846	14407	2030	1171	12510	12974	2020
	-40	1576	15831	16523	1930	1399	13938	14485	1910	1340	13315	13817	1910	1222	12081	12499	1890
	-30	1606	15829	16553	1850	1428	13970	14544	1830	1369	13358	13886	1830	1251	12145	12587	1820
	-20	1635	15934	16688	1780	1458	14095	14695	1760	1399	13489	14042	1760	1281	12289	12753	1750
	-10	1657	16765	17692	1720	1480	14846	15585	1700	1421	14214	14896	1690	1303	12963	13537	1680
	0	1662	19082	20547	1670	1484	16878	18048	1650	1425	16155	17233	1650	1307	14723	15632	1640
	10	1660	22463	24735	1640	1483	19828	21641	1620	1424	18965	20637	1610	1306	17261	18671	1600
	20	1677	26335	29281	1610	1500	23224	25575	1590	1441	22208	24377	1580	1323	20205	22037	1570
	30	1704	34464	38415	1620	1527	30317	33467	1590	1468	28971	31877	1580	1349	26328	28781	1560
	40	1729	53631	59928	1700	1552	46773	51754	1650	1493	44576	49162	1640	1375	40309	44164	1610
42	1734	60513	67689	1740	1557	52584	58238	1680	1498	50058	55257	1660	1380	45170	49531	1630	
9 5 0	-54	1513	14925	15345	2050	1336	13074	13402	2030	1277	12465	12764	2020	1158	11256	11504	2010
	-40	1563	14289	14624	1920	1386	12578	12841	1900	1327	12014	12255	1890	1209	10895	11095	1880
	-30	1592	14286	14638	1840	1415	12605	12884	1820	1356	12051	12307	1820	1238	10952	11165	1810
	-20	1621	14375	14741	1760	1444	12713	13003	1750	1385	12165	12432	1740	1267	11078	11301	1730
	-10	1643	15081	15564	1700	1466	13352	13736	1690	1407	12783	13137	1680	1289	11654	11950	1670
	0	1647	17033	17932	1660	1470	15067	15782	1640	1411	14420	15079	1630	1293	13138	13693	1620
	10	1645	19812	21336	1620	1468	17494	18707	1600	1409	16733	17851	1590	1291	15228	16168	1580
	20	1648	23071	25309	1590	1471	20337	22118	1570	1412	19442	21083	1560	1294	17674	19056	1550
	30	1666	29601	32706	1580	1489	26035	28504	1560	1430	24873	27148	1550	1312	22592	24508	1530
	40	1692	43646	48328	1630	1514	38165	41871	1590	1455	36397	39808	1580	1337	32945	35810	1550
42	1696	48317	53542	1650	1519	42151	46278	1610	1460	40169	43965	1600	1342	36309	39494	1570	
9 0 0	-54	1501	13457	13754	2030	1323	11783	12014	2010	1264	11232	11442	2010	1146	10137	10311	2000
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	-30	1578	12906	13136	1820	1401	11383	11564	1810	1342	10880	11047	1800	1224	9882	10021	1800
	-20	1607	12980	13218	1750	1430	11477	11665	1740	1371	10980	11153	1730	1253	9993	10138	1730
	-10	1629	13585	13919	1690	1452	12024	12289	1680	1393	11509	11753	1670	1275	10488	10692	1660
	0	1631	15239	15929	1640	1454	13477	14025	1630	1395	12897	13401	1620	1277	11747	12170	1610
	10	1629	17540	18761	1600	1452	15488	16458	1580	1393	14813	15707	1560	1274	13477	14228	1570
	20	1630	20200	22051	1570	1452	17808	19279	1550	1393	17023	18378	1540	1275	15472	16610	1530
	30	1627	25604	28501	1550	1450	22500	24799	1530	1391	21485	23603	1520	1273	19487	21265	1510
	40	1652	36210	40404	1580	1475	31694	35014	1550	1416	30229	33285	1540	1298	27360	29925	1520
42	1659	39538	44150	1590	1481	34553	38200	1560	1422	32941	36295	1540	1304	29787	32601	1520	
8 5 0	-54	1485	12138	12272	2020	1308	10622	10726	2000	1249	10122	10216	2000	1131	9128	9206	1990
	-40	1535	11665	11725	1890	1358	10257	10304	1880	1299	9792	9835	1870	1181	8869	8904	1860
	-30	1563	11662	11727	1810	1386	10279	10331	1800	1327	9823	9870	1800	1209	8916	8955	1790
	-20	1592	11728	11794	1740	1415	10361	10414	1730	1356	9910	9958	1720	1237	9013	9054	1720
	-10	1613	12246	12383	1680	1436	10834	10942	1670	1377	10367	10467	1660	1259	9441	9524	1650
	0	1615	13650	14081	1630	1438	12067	12409	1610	1379	11545	11859	1610	1261	10509	10772	1600
	10	1612	15568	16440	1580	1434	13743	14435	1570	1375	13142	13779	1570	1257	11952	12485	1560
	20	1611	17743	19129	1550	1433	15642	16741	1530	1374	14951	15962	1530	1256	13584	14431	1520
	30	1595	22164	24581	1530	1418	19464	21377	1510	1359	18580	20340	1500	1241	16834	18308	1490

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
7,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
		1	-54	1640	26396	29716	2150	1463	23224	25870	2110	1404	22188	24629	2100	1286	20146
2	-50	1654	26449	29830	2110	1476	23295	25995	2080	1417	22265	24756	2070	1299	20233	22337	2050
3	-40	1686	26541	30068	2020	1509	23435	26263	1990	1450	22420	25034	1980	1332	20418	22634	1960
7	-30	1718	26666	30361	1930	1541	23599	26574	1910	1482	22596	25351	1900	1364	20619	22961	1880
5	-20	1750	27200	31195	1860	1573	24111	27335	1840	1514	23102	26090	1830	1395	21113	23659	1810
	-10	1781	31082	35870	1820	1604	27550	31419	1790	1545	26398	29987	1780	1426	24134	27198	1770
	0	1811	38638	44831	1820	1634	34174	39175	1780	1575	32728	37365	1770	1457	29893	33852	1750
	10	1841	49678	57997	1840	1664	43754	50444	1790	1605	41849	48047	1780	1487	38140	43422	1750
	20	1871	66480	78237	1900	1694	58084	67447	1840	1634	55421	64070	1820	1516	50284	57618	1780
	30					1722	111160	130112	2160	1663	104860	122112	2110	1545	93165	107417	2030
	31													1550	102400	118184	2090
1	-54	1630	25412	28539	2140	1453	22353	24843	2110	1394	21353	23648	2100	1276	19381	21313	2080
2	-40	1676	25547	28868	2010	1499	22552	25212	1980	1440	21572	24031	1970	1322	19640	21721	1950
0	-30	1708	25663	29140	1930	1531	22705	25503	1900	1472	21738	24327	1890	1353	19829	22029	1870
2	-20	1739	26160	29915	1850	1562	23185	26213	1830	1503	22212	25018	1820	1385	20294	22683	1800
0	-10	1770	29784	34266	1810	1593	26397	30018	1780	1534	25293	28650	1770	1416	23119	25983	1760
	0	1800	36768	42524	1800	1623	32530	37176	1770	1564	31154	35462	1760	1446	28457	32133	1730
	10	1830	46792	54435	1820	1653	41248	47397	1770	1594	39462	45159	1760	1476	35977	40833	1730
	20	1859	61627	72222	1860	1682	53958	62417	1810	1623	51516	59335	1790	1505	46793	53430	1750
	30	1888	114929	135757	2190	1711	97683	113705	2060	1652	92468	107119	2030	1534	82581	94776	1950
	31					1713	106848	124495	2120	1654	100896	116987	2080	1536	89800	103129	2000
	32					1716	117991	137651	2190	1657	111126	128986	2150	1538	98439	113140	2050
1	-54	1621	24318	27175	2130	1444	21388	23660	2100	1385	20429	22523	2090	1267	18538	20299	2070
2	-40	1666	24447	27491	2000	1489	21577	24014	1970	1430	20638	22888	1960	1312	18784	20687	1940
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2	-20	1727	25026	28492	1840	1550	22175	24967	1820	1491	21242	23828	1810	1373	19401	21601	1790
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	0	1788	34787	40056	1790	1610	30783	35035	1750	1551	29482	33423	1740	1433	26928	30289	1720
	10	1817	43799	50714	1790	1640	38640	44206	1750	1581	36974	42130	1740	1463	33721	38114	1710
	20	1846	56766	66173	1830	1669	49799	57324	1780	1610	47573	54532	1760	1492	43254	49166	1730
	30	1874	99873	117128	2080	1697	85636	99070	1980	1638	81240	93564	1940	1520	72912	83231	1880
	32	1880	119052	139901	2200	1703	100943	116937	2070	1644	95446	110058	2030	1526	85144	97287	1960
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1	-40	1658	23400	26198	1990	1481	20650	22887	1960	1422	19749	21815	1950	1304	17971	19716	1940
8	-30	1688	23499	26434	1910	1511	20785	23141	1880	1452	19902	22081	1870	1334	18139	19986	1860
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	-10	1745	27075	30922	1790	1567	23989	27091	1760	1508	22981	25855	1760	1390	20994	23441	1740
	0	1775	32953	38717	1770	1598	29164	33087	1740	1539	27931	31566	1730	1420	25508	28606	1710
	10	1804	41088	47404	1770	1627	36270	41354	1730	1568	34712	39422	1720	1450	31663	35675	1700
	20	1833	52503	60955	1800	1656	46132	52902	1750	1597	44088	50352	1730	1479	40131	45455	1700
	30	1861	88129	102819	1990	1684	76042	87571	1910	1625	72273	82874	1880	1507	65081	73992	1830
	34	1872	123659	144705	2220	1695	104571	120673	2080	1636	98793	113492	2040	1518	87987	100183	1970
	35					1699	116455	134591	2160	1640	109713	126204	2110	1522	97220	110809	2030
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1	-40	1648	22408	24954	1980	1470	19771	21804	1950	1411	18906	20783	1950	1293	17199	18782	1930
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	-10	1733	25830	29361	1780	1555	22883	25727	1750	1496	21919	24552	1750	1378	20018	22258	1730
	0	1762	31250	35709	1760	1584	27657	31250	1730	1525	26487	29815	1720	1407	24185	27020	1700
	10	1791	38618	44352	1750	1614	34106	38721	1720	1555	32644	36918	1710	1437	29780	33419	1680
	20	1819	48730	56292	1770	1642	42069	48933	1720	1583	40985	46596	1710	1465	37314	42083	1680
	30	1847	78665	91252	1930	1670	68196	78130	1850	1611	64905	74053	1830	1493	58594	66304	1780
	35	1861	117219	136420	2170	1684	99468	114229	2040	1625	94062	107552	2000	1507	83910	95126	1930
	37													1513	104295	118599	2060
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4	-50	1610	21384	23572	2060	1433	18820	20558	2030	1374	17979	19580	2020	1255	16318	17663	2010
1	-40	1641	21451	23746	1970	1463	18925	20757	1950	1404	18097	19787	1940	1286	16460	17885	1920
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	-20	1698	21919	24563	1820	1521	19414	21537	1790	1462	18593	20557	1790	1344	16970	18636	1770
	-10	1723	24639	27863	1770	1545	21826	24421	1750	1486	20905	23307	1740	1368	19089	21131	1720
	0	1748	29665	33787	1740	1571	26252	29571	1720	1512	25139	28213	1710	1394	22950	25565	1690
	10	1777	36360	41613	1730	1600	32121	36348	1700	1541	30746	34660	1690	1423	28049	31380	1670
	20	1806	45364	52205	1740	1629	39948	45436	1700	1570	38202	43280					

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
7,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1587	19572	21219	2080	1410	17211	18514	2050	1351	16436	17634	2050	1233	14904	15908	2030
	-40	1630	19662	21429	1950	1453	17350	18757	1930	1394	16591	17888	1920	1276	15089	16181	1910
	-30	1660	19733	21594	1870	1483	17453	18941	1850	1424	16700	18074	1840	1306	15222	16382	1830
	-20	1688	20059	22098	1800	1510	17771	19406	1780	1451	17019	18531	1770	1333	15533	16813	1760
	-10	1703	22452	25092	1750	1526	19885	22005	1730	1467	19043	21004	1720	1349	17381	19045	1710
	0	1722	26799	30297	1720	1544	23708	26519	1700	1485	22698	25299	1690	1367	20708	22916	1670
	10	1750	32373	36762	1700	1573	28608	32135	1670	1514	27382	30646	1660	1396	24975	27748	1650
	20	1778	39614	45205	1700	1601	34930	39417	1660	1542	33414	37565	1650	1424	30446	33973	1630
	30	1806	58663	67147	1780	1629	51294	58049	1730	1570	48942	55176	1710	1451	44381	49656	1680
	40	1830	114175	131561	2120	1653	96794	110125	2000	1594	91494	103664	1960	1476	81531	91623	1890
1 0 5	-54	1575	17606	18716	2060	1398	15483	16359	2040	1338	14785	15589	2030	1220	13403	14074	2020
	-50	1587	17633	18769	2020	1410	15522	16420	2000	1351	14828	15654	1990	1233	13455	14144	1980
	-40	1617	17678	18875	1930	1440	15601	16551	1910	1381	14917	15792	1910	1263	13564	14298	1890
	-30	1647	17736	18999	1850	1470	15687	16694	1840	1411	15013	15942	1830	1292	13678	14461	1820
	-20	1674	18005	19397	1780	1497	15953	17066	1760	1438	15278	16306	1760	1319	13941	14810	1750
	-10	1689	19991	21837	1730	1512	17711	19190	1710	1453	16962	18329	1710	1334	15481	16639	1690
	0	1693	23643	26355	1700	1516	20910	23083	1670	1457	20015	22023	1670	1339	18248	19949	1650
	10	1715	28190	31684	1670	1538	24907	27708	1650	1479	23835	26424	1640	1361	21725	23919	1620
	20	1743	33821	38177	1660	1566	29844	33336	1630	1507	28552	31780	1620	1388	26014	28752	1600
	40	1770	47638	53914	1700	1593	41805	46812	1660	1534	39927	44552	1650	1416	36268	40181	1620
1 0 0	-54	1562	15869	16546	2040	1385	13953	14486	2020	1326	13323	13811	2010	1208	12073	12480	2000
	-50	1574	15891	16586	2000	1397	13987	14535	1980	1338	13360	13863	1980	1220	12118	12537	1970
	-40	1604	15927	16663	1920	1427	14054	14636	1900	1368	13437	13972	1890	1250	12214	12662	1880
	-30	1633	15974	16754	1840	1456	14127	14747	1820	1397	13519	14090	1820	1279	12313	12793	1800
	-20	1660	16202	17072	1770	1483	14350	15044	1750	1424	13742	14382	1750	1306	12537	13076	1730
	-10	1674	17859	19072	1710	1497	15824	16794	1700	1438	15154	16050	1690	1320	13829	14585	1680
	0	1674	20894	22843	1670	1497	18480	20037	1650	1438	17688	19126	1650	1320	16122	17337	1640
	10	1684	24710	27459	1640	1507	21821	24019	1620	1447	20876	22905	1610	1329	19012	20727	1600
	20	1706	29231	32673	1620	1529	25792	28545	1600	1470	24665	27208	1590	1352	22465	24616	1570
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9 5 0	-54	1549	14320	14641	2020	1372	12589	12840	2010	1313	12018	12249	2000	1195	10886	11078	1990
	-50	1561	14339	14671	1990	1384	12618	12878	1970	1325	12051	12289	1970	1207	10926	11124	1950
	-40	1590	14368	14725	1900	1413	12675	12956	1890	1354	12117	12375	1880	1236	11009	11225	1870
	-30	1619	14406	14789	1820	1442	12737	13041	1810	1383	12187	12466	1800	1265	11096	11330	1790
	-20	1646	14593	15036	1750	1469	12926	13279	1740	1410	12374	12699	1730	1291	11287	11560	1720
	-10	1660	15993	16692	1700	1483	14169	14727	1680	1424	13569	14083	1680	1305	12379	12812	1670
	0	1659	18520	19792	1660	1481	16383	17397	1640	1422	15681	16616	1630	1304	14291	15079	1620
	10	1657	21710	23729	1620	1480	19167	20777	1600	1421	18334	19818	1590	1303	16687	17938	1580
	20	1670	25473	28190	1590	1493	22461	24628	1570	1434	21477	23476	1560	1316	19537	21223	1550
	40	1695	33555	37241	1600	1518	29514	32451	1570	1459	28201	30910	1560	1341	25623	27908	1540
9 0 0	-54	1535	12931	12946	2010	1358	11363	11375	1990	1299	10846	10856	1990	1181	9819	9828	1980
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	-40	1576	12970	13001	1890	1399	11437	11462	1870	1340	10931	10954	1870	1222	9927	9946	1860
	-30	1605	13001	13044	1810	1428	11490	11524	1800	1369	10992	11023	1790	1251	10002	10028	1780
	-20	1631	13158	13236	1740	1454	11651	11713	1730	1395	11154	11211	1720	1277	10167	10214	1710
	-10	1645	14349	14613	1680	1467	12710	12920	1670	1408	12170	12363	1670	1290	11098	11260	1660
	0	1643	16474	17180	1640	1465	14572	15133	1620	1406	13946	14463	1620	1288	12706	13140	1610
	10	1640	19084	20360	1600	1463	16852	17867	1580	1404	16119	17054	1580	1286	14669	15454	1570
	20	1639	22211	24184	1570	1462	19577	21145	1550	1403	18714	20158	1540	1285	17010	18224	1530
	40	1655	28689	31530	1560	1478	25224	27481	1540	1419	24094	26173	1530	1301	21871	23619	1510
8 5 0	-54	1521	11676	11715	2000	1344	10254	10284	1980	1285	9785	9812	1980	1167	8852	8874	1970
	-50	1533	11689	11732	1960	1355	10276	10310	1950	1296	9809	9840	1940	1178	8882	8908	1930
	-40	1559	11708	11763	1880	1383	10318	10361	1860	1324	9859	9899	1860	1206	8947	8980	1850
	-30	1591	11734	11801	1800	1414	10365	10418	1790	1355	9913	9961	1780	1237	9014	9055	1770
	-20	1615	11868	11969	1730	1438	10503	10583	1720	1379	10052	10126	1710	1261	9157	9218	1710
	-10	1628	12889	13163	1670	1451	11412	11629	1660	1392	10924	11124	1650	1274	9956	10124	1650
	0	1626	14684	15362	1620	1448	12985	13523	1610	1389	12425	12920	1610	1271	11314	11729	1600
	10	1625	16836	18026	1580	1448	14865	15810	1570	1388	14217	15087	1560	1270	12933	13663	1550
	20	1622	19359	21161	1550	1445	17066	18497	1530	1386	16313	17632	1520	1268	14824	15932	1510
	40	1615	24678	27594	1530	1438	21676	23990	1510	1379	20695	22825	1510	1261	18760	20548	1490
8 0 0	-54	1521	11676	11715	2000	1344	10254	10284	1980	1285	9785	9812	1980	1167	8852	8874	1970
	-50	1533	11689	11732	1960	1355	10276	10310	1950	1296	9809	9840	1940	1178	8882	8908	1930
	-40	1559	11708	11763	1880	1383	10318	10361	1860	1324	9859	9899	1860	1206	8947	8980	1850
	-30	1591	11734	11801	1800	1414	10365	10418	1790	1355	9913	9961	1780	1237	9014	9055	1770

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
8,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1668	27040	30620	2140	1491	23833	26693	2100	1432	22786	25427	2090	1314	20722	22954	2070
	-50	1681	27108	30756	2100	1504	23917	26837	2070	1445	22875	25573	2060	1327	20821	23104	2040
	-40	1715	27188	30984	2010	1538	24048	27102	1980	1479	23022	25850	1970	1361	21000	23403	1950
	-30	1748	27708	31766	1930	1570	24556	27833	1900	1511	23526	26564	1890	1393	21497	24087	1870
	-20	1780	29286	33844	1870	1603	25980	29669	1840	1544	24902	28324	1830	1425	22779	25703	1810
	-10	1812	34914	40576	1840	1634	30943	35525	1810	1575	29653	33904	1800	1457	27119	30754	1780
	0	1843	44514	52007	1850	1666	39327	45377	1810	1607	37652	43263	1800	1489	34382	39175	1770
	10	1873	59181	69642	1900	1696	51951	60338	1840	1637	49644	57406	1820	1519	45172	51781	1790
	20	1903	85747	101897	2030	1726	74212	86926	1940	1667	70612	82318	1920	1549	63744	73614	1870
	26 27					1743	113889	134331	2190	1684	107386	125970	2150	1566	95358	110681	2060
1 2 0 0 0	-54	1658	26017	29385	2130	1481	22926	25615	2100	1422	21916	24397	2090	1304	19924	22019	2070
	-50	1671	26080	29512	2090	1494	23005	25749	2060	1435	22000	24534	2050	1317	20018	22162	2030
	-40	1704	26153	29724	2000	1527	23128	25999	1970	1468	22138	24796	1960	1350	20188	22444	1940
	-30	1737	26639	30454	1920	1560	23604	26682	1890	1501	22611	25464	1880	1383	20655	23085	1870
	-20	1769	28109	32385	1860	1592	24934	28392	1830	1533	23897	27104	1820	1414	21855	24593	1800
	-10	1800	33338	38619	1830	1623	29550	33821	1800	1564	28317	32280	1790	1446	25896	29282	1770
	0	1831	42129	49051	1830	1654	37241	42830	1790	1595	35661	40844	1780	1477	32569	36997	1760
	10	1862	55246	64757	1870	1685	48570	56207	1820	1626	46433	53504	1800	1507	42282	48305	1770
	20	1891	78006	92231	1970	1714	67788	79045	1900	1655	64577	74957	1870	1537	58422	67198	1830
	27 29	1912	128492	197184	2290	1734	108337	127143	2150	1675	102295	119430	2100	1557	91057	105240	2020
1 2 0 0 0	-54	1649	24883	27965	2120	1472	21924	24383	2090	1413	20956	23224	2080	1295	19048	20961	2060
	-50	1662	24936	28080	2080	1484	21999	24511	2050	1425	21036	23355	2040	1307	19137	21096	2020
	-40	1694	25013	28293	1990	1517	22116	24751	1960	1458	21168	23605	1950	1340	19298	21365	1930
	-30	1726	25467	28978	1910	1549	22562	25392	1880	1490	21611	24233	1880	1372	19736	21967	1860
	-20	1756	26840	30793	1850	1579	23804	26998	1820	1520	22811	25773	1810	1402	20856	23381	1790
	-10	1788	31655	36508	1810	1611	28060	31982	1780	1551	26888	30527	1780	1433	24586	27692	1760
	0	1818	39632	45930	1810	1641	35051	40136	1770	1582	33567	38283	1760	1464	30662	34688	1740
	10	1849	51245	59762	1840	1671	45115	51961	1790	1612	43147	49487	1770	1494	39316	44719	1740
	20	1878	70567	82928	1920	1701	61547	71372	1850	1642	58694	67765	1830	1524	53203	60888	1790
	29 30					1726	110446	128965	2150	1667	104237	121102	2100	1549	92698	106641	2020
1 8 0 0 0	-54	1639	23806	26637	2100	1462	20973	23229	2080	1403	20045	22126	2070	1285	18215	19968	2050
	-50	1652	23861	26749	2070	1475	21043	23348	2040	1416	20120	22247	2030	1298	18299	20094	2010
	-40	1682	23921	26934	1980	1506	21151	23569	1950	1447	20243	22479	1940	1329	18450	20345	1930
	-30	1716	24345	27568	1900	1539	21565	24161	1870	1480	20655	23059	1870	1362	18859	20902	1850
	-20	1746	25617	29249	1830	1569	22719	25650	1810	1510	21770	24487	1800	1392	19900	22215	1790
	-10	1775	30087	34583	1800	1598	26668	30300	1770	1539	25554	28921	1760	1420	23361	26234	1750
	0	1805	37346	43128	1790	1628	33041	37709	1760	1569	31645	35972	1750	1451	28807	32601	1730
	10	1835	47685	55393	1810	1658	42028	48229	1770	1599	40206	45950	1750	1481	36655	41550	1720
	20	1864	64277	75186	1870	1687	56219	64919	1810	1628	53659	61698	1790	1510	48711	55532	1750
	30 32	1893	121784	143576	2220	1716	103165	119839	2090	1657	97530	112754	2050	1539	86988	99633	1970
1 6 0 0 0	-54	1630	22787	25363	2090	1453	20072	22122	2070	1394	19182	21072	2060	1276	17426	19017	2040
	-50	1676	22897	25639	1970	1499	20239	22437	1940	1440	19368	21399	1940	1322	17648	19368	1920
	-40	1707	23284	26215	1890	1529	20623	22981	1870	1470	19751	21934	1860	1352	18029	19883	1840
	-30	1736	24462	27759	1820	1559	21692	24351	1800	1500	20786	23249	1790	1382	18997	21094	1780
	-20	1762	28620	32756	1790	1585	25366	28703	1760	1525	24304	27397	1750	1407	22213	24849	1740
	-10	1792	35245	40519	1780	1615	31190	35446	1740	1556	29873	33818	1730	1438	27288	30652	1710
	0	1822	44494	51437	1780	1645	39250	44837	1740	1586	37558	42733	1730	1467	34253	38663	1710
	10	1851	58879	68496	1830	1674	51613	59300	1780	1615	49294	56401	1760	1496	44800	50836	1730
	20	1879	104587	122356	2100	1702	89502	103297	1990	1643	84860	97507	1960	1525	76083	86661	1890
	32 33	1885	124290	145729	2220	1707	105145	121527	2090	1648	99356	114307	2050	1530	88536	100941	1970
1 4 0 0 0	-54	1623	21803	24120	2080	1446	19205	21047	2060	1387	18353	20051	2050	1269	16671	18099	2030
	-50	1636	21852	24220	2050	1459	19267	21154	2020	1400	18420	20159	2010	1282	16746	18211	2000
	-40	1667	21909	24391	1960	1490	19365	21353	1940	1431	18531	20367	1930	1313	16882	18435	1910
	-30	1698	22273	24939	1880	1521	19726	21868	1860	1462	18890	20872	1850	1343	17240	18922	1840
	-20	1726	23372	26384	1820	1549	20724	23151	1790	1490	19856	22104	1790	1372	18143	20055	1770
	-10	1748	27246	31081	1780	1571	24144	27236	1750	1512	23131	25996	1740	1394	21134	23574	1730
	0	1779	33308	38160	1760	1602	29480	33393	1730	1543	28235	31861	1720	1424	25789	28879	1700
	10	1808	41619	47934	1760	1631	36738	41821	1720	1572	35160	39869	1710	1454	32074	36085	1690
	20	1837	54190	62778	1800	1660	47586	54463	1750	1601	45471	51831	1730	1483	41363	46767	1700
	30 33	1865	91466	106421	2000	1688	78828	90553	1910	1629	74895	85672	1880	1511	67388	76442	1830
	1874	117039	136568	2170	1696	99410	114421	2040	1637	94042	107762	2000	1519	83961	95378	1930	

525AFM-06-01

Figure 4-28 (Sheet 17)

MODEL 525A

SECTION IV - PERFORMANCE
TAKEOFF

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
8,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1000	-54	1613	19969	21752	2070	1436	17593	19008	2040	1377	16813	18117	2030	1259	15272	16366	2020
	-40	1657	20057	21972	1940	1480	17732	19262	1920	1421	16968	18381	1910	1303	15457	16649	1900
	-30	1687	20369	22425	1860	1510	18044	19693	1840	1451	17280	18805	1840	1333	15771	17062	1820
	-20	1714	21319	23668	1800	1536	18908	20797	1780	1477	18117	19865	1770	1359	16554	18038	1760
	-10	1726	24705	27893	1760	1549	21887	24453	1730	1490	20965	23341	1730	1371	19147	21165	1710
	0	1751	29852	33936	1730	1574	26421	29709	1710	1515	25303	28347	1700	1397	23101	25692	1680
	10	1780	36637	41849	1720	1603	32368	36561	1690	1544	30984	34866	1680	1426	28268	31572	1660
	20	1809	46430	53306	1740	1632	40874	46389	1700	1573	39084	44187	1680	1455	35593	39930	1660
	30	1837	72573	83579	1870	1660	63114	71833	1800	1600	60124	68162	1780	1482	54366	61152	1740
	36	1853	119139	138104	2160	1676	100864	115364	2030	1617	95316	108546	1990	1499	84917	95888	1920
37					1680	113456	130044	2110	1621	106882	121949	2070	1503	94687	107077	1980	
1050	-54	1601	17938	19142	2050	1423	15806	16759	2020	1364	15105	15982	2020	1246	13718	14452	2000
	-50	1613	17972	19205	2010	1436	15852	16830	1990	1377	15154	16055	1980	1259	13773	14528	1970
	-40	1644	18009	19307	1920	1467	15923	16958	1900	1408	15237	16191	1900	1290	13879	14682	1880
	-30	1674	18268	19664	1850	1497	16185	17302	1830	1437	15500	16532	1820	1319	14144	15016	1810
	-20	1700	19056	20662	1780	1523	16906	18194	1760	1464	16199	17390	1750	1346	14801	15810	1740
	-10	1703	21889	24272	1730	1526	19392	21305	1710	1467	18573	20342	1710	1349	16955	18455	1690
	0	1716	26171	29448	1700	1539	23153	25784	1680	1480	22166	24600	1670	1362	20221	22286	1660
	10	1745	31539	35638	1690	1568	27865	31157	1660	1509	26672	29718	1650	1391	24326	26913	1630
	20	1773	38910	44163	1680	1596	34312	38526	1650	1537	32823	36721	1640	1419	29907	33217	1610
	30	1800	56851	64684	1750	1623	49752	55993	1700	1564	47482	53244	1690	1446	43076	47952	1660
37	1819	90743	103713	1950	1642	77984	88102	1860	1583	74011	83294	1840	1465	66443	74208	1780	
1000	-54	1588	16149	16986	2030	1411	14229	14810	2010	1352	13597	14131	2000	1234	12345	12791	1980
	-50	1600	16177	16934	1990	1423	14268	14866	1970	1364	13639	14190	1970	1246	12394	12854	1950
	-40	1631	16206	17007	1910	1453	14328	14965	1890	1394	13710	14296	1880	1276	12485	12977	1870
	-30	1660	16422	17289	1830	1483	14550	15241	1810	1424	13933	14571	1810	1306	12711	13249	1800
	-20	1686	17082	18096	1760	1509	15156	15967	1740	1450	14522	15271	1740	1332	13266	13899	1730
	-10	1688	19425	21051	1710	1511	17214	18516	1700	1452	16488	17691	1690	1334	15051	16068	1680
	0	1688	22989	25497	1680	1511	20331	22339	1660	1452	19460	21315	1650	1334	17741	19311	1640
	10	1708	27355	30619	1650	1531	24167	26782	1630	1472	23126	25543	1620	1354	21076	23123	1600
	20	1736	33059	37148	1640	1559	29170	32446	1610	1500	27906	30934	1600	1382	25423	27989	1580
	30	1763	46003	51805	1680	1586	40392	45023	1640	1527	38583	42860	1620	1409	35055	38674	1600
37	1781	67152	75853	1790	1604	58338	65206	1730	1545	55544	61865	1710	1427	50154	55470	1670	
950	-54	1574	14560	14916	2010	1397	12826	13106	1990	1338	12255	12512	1990	1220	11122	11336	1980
	-50	1587	14583	14952	1980	1410	12859	13150	1960	1351	12291	12558	1950	1233	11164	11387	1940
	-40	1617	14606	15002	1890	1440	12911	13224	1870	1381	12352	12640	1870	1263	11244	11485	1860
	-30	1646	14788	15223	1810	1469	13099	13445	1800	1410	12543	12862	1790	1292	11439	11707	1780
	-20	1670	15343	15877	1750	1493	13609	14035	1730	1434	13041	13434	1730	1316	11910	12241	1720
	-10	1674	17296	18312	1700	1497	15328	16140	1680	1438	14680	15429	1670	1320	13398	14030	1660
	0	1671	20225	21950	1660	1493	17891	19269	1640	1434	17125	18396	1630	1316	15609	16683	1620
	10	1676	23877	26393	1630	1499	21086	23095	1600	1440	20172	22027	1600	1322	18368	19935	1580
	20	1698	28461	31678	1600	1520	25108	27679	1580	1461	24014	26388	1570	1343	21861	23868	1560
	30	1724	38177	42574	1620	1547	33572	37080	1590	1488	32079	35318	1580	1370	29156	31892	1560
37	1742	52531	58722	1680	1565	45889	50796	1640	1506	43759	48280	1620	1388	39618	43426	1590	
900	-54	1561	13137	13167	2000	1384	11568	11592	1980	1325	11051	11073	1980	1207	10024	10042	1970
	-50	1573	13155	13193	1960	1396	11596	11625	1950	1337	11082	11108	1940	1219	10061	10083	1930
	-40	1603	13174	13223	1880	1426	11640	11679	1860	1367	11134	11170	1860	1249	10130	10160	1850
	-30	1632	13327	13394	1800	1455	11802	11855	1790	1395	11298	11347	1780	1277	10299	10340	1770
	-20	1657	13799	13924	1730	1479	12238	12338	1720	1420	11723	11815	1720	1302	10702	10779	1710
	-10	1657	15436	15939	1680	1480	13678	14078	1670	1421	13098	13468	1660	1303	11950	12261	1650
	0	1654	17868	18918	1640	1477	15806	16642	1620	1418	15129	15899	1620	1300	13787	14436	1610
	10	1653	20873	22600	1600	1476	18431	19806	1580	1417	17630	18898	1580	1299	16047	17114	1570
	20	1660	24669	27124	1580	1483	21748	23703	1550	1424	20792	22595	1550	1306	18908	20426	1530
	30	1684	32202	35540	1580	1506	28322	30980	1550	1447	27060	29511	1540	1329	24581	26646	1520
37	1701	42479	46975	1610	1524	37198	40764	1580	1465	35493	38777	1570	1347	32161	34924	1540	
850	-54	1548	11853	11896	1990	1370	10432	10466	1970	1311	9962	9994	1970	1193	9031	9056	1960
	-50	1558	11868	11918	1950	1381	10455	10494	1940	1322	9989	10025	1930	1204	9063	9092	1920
	-40	1588	11882	11944	1870	1411	10494	10542	1850	1351	10035	10079	1850	1233	9124	9161	1840
	-30	1614	12012	12091	1790	1437	10634	10696	1780	1378	10176	10233	1770	1260	9270	9318	1760
	-20	1641	12414	12548	1720	1464	11005	11111	1710	1405	10540	10638	1700	1286	9616	9698	1700
	-10	1641	13801	14281	1670	1463	12224	12606	1650	1404	11704	12056	1650	1286	10673	10968	1640
	0	1636	15839	16809	1620	1459	14009	14781	1610	1400	13406	14118	1600	1282	12212	12810	1590
	10	1634	18285	19854	1580	1457	16146	17395	1570	1398	15443	16594	1560	1280	14052	15020	1550
	20	1632	21386	23729	1550	1455	18847	20711	1530	1396	18014	19732	1530	1278	16370	17815	1510
	30	1641	274														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
9,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1697	28208	32231	2130	1520	24892	28116	2100	1461	23811	26791	2090	1343	21674	24199	2070
	-50	1711	28345	32471	2100	1533	25035	28346	2060	1474	23955	27018	2050	1356	21830	24428	2030
	-40	1745	28397	32695	2000	1567	25143	28608	1970	1508	24081	27291	1960	1390	21990	24724	1950
	-30	1778	29608	34271	1930	1601	26260	30032	1900	1542	25167	28667	1890	1424	23017	26006	1870
	-20	1811	32739	38121	1880	1634	29050	33411	1850	1575	27849	31898	1840	1456	25488	28954	1820
	-10	1843	39920	46745	1870	1666	35359	40866	1830	1607	33881	39013	1820	1489	30987	35381	1800
	0	1875	52223	61552	1900	1698	46035	53556	1850	1639	44049	51022	1830	1520	40185	46142	1800
	10	1906	72641	86343	1990	1728	63404	74319	1920	1669	60487	70574	1890	1551	54875	63438	1850
	20	1937	121323	146471	2280	1760	102812	121993	2140	1701	97224	114731	2100	1583	86802	101342	2020
	21	1939	132158	192078	2350	1762	111112	132091	2190	1703	104854	123941	2150	1585	93265	109032	2080
23													1593	109819	128825	2170	
1 2 2 0 0	-54	1686	27104	30856	2120	1509	23919	26924	2090	1450	22877	25654	2080	1332	20825	23176	2060
	-50	1700	27236	31084	2080	1523	24052	27137	2050	1464	23012	25865	2040	1346	20965	23383	2020
	-40	1734	27282	31290	1990	1557	24160	27388	1970	1498	23131	26120	1960	1380	21117	23661	1940
	-30	1767	28412	32755	1920	1590	25196	28707	1890	1531	24147	27402	1880	1413	22079	24858	1870
	-20	1800	31324	36320	1870	1623	27795	31842	1840	1564	26645	30401	1830	1445	24384	27596	1810
	-10	1832	37942	44232	1850	1655	33618	38711	1820	1596	32215	36943	1810	1478	29466	33512	1780
	0	1863	49068	57557	1870	1686	43299	50146	1830	1627	41443	47793	1810	1509	37824	43249	1780
	10	1894	66941	79125	1940	1717	58582	68317	1880	1658	55930	64933	1860	1540	50811	58465	1820
	20	1924	106407	127323	2170	1747	91024	107221	2050	1688	86317	101160	2020	1570	77444	89859	1950
	23	1933	135532	242550	2360	1756	113718	134576	2200	1697	107247	126210	2150	1579	95280	110924	2060
25													1586	112931	160161	2180	
1 2 0 0	-54	1675	25916	29411	2110	1498	22861	25657	2080	1439	21863	24445	2070	1321	19895	22079	2050
	-50	1688	26034	29620	2070	1511	22985	25859	2040	1452	21989	24645	2030	1334	20027	22275	2010
	-40	1722	26076	29815	1980	1544	23080	26089	1960	1485	22101	24886	1950	1367	20170	22538	1930
	-30	1754	27122	31168	1910	1577	24048	27315	1880	1518	23044	26073	1870	1400	21065	23648	1860
	-20	1787	29808	34445	1860	1610	26449	30202	1830	1551	25353	28836	1820	1433	23197	26173	1800
	-10	1819	35851	41646	1840	1642	31774	36465	1800	1583	30450	34804	1790	1465	27851	31575	1770
	0	1851	45815	53532	1850	1674	40466	46695	1800	1615	38741	44518	1790	1497	35383	40320	1760
	10	1881	61304	72134	1900	1703	53778	62455	1840	1644	51379	59409	1820	1526	46736	53571	1790
	20	1910	93182	110734	2070	1733	80341	94089	1970	1674	76358	88998	1950	1556	68790	79422	1890
	26					1748	114127	134486	2190	1689	107627	126143	2140	1571	95600	110880	2050
28									1694	117455	154462	2200	1576	103823	120579	2100	
1 1 8 0 0	-54	1666	24763	27947	2100	1488	21843	24387	2070	1429	20888	23237	2060	1311	19005	20989	2040
	-50	1679	24871	28137	2060	1502	21958	24572	2030	1443	21006	23420	2020	1325	19127	21170	2010
	-40	1712	24910	28317	1970	1535	22047	24786	1950	1476	21110	23645	1940	1358	19263	21415	1920
	-30	1742	25899	29625	1900	1565	22960	25966	1870	1506	21999	24785	1860	1388	20104	22477	1850
	-20	1774	28388	32662	1850	1597	25186	28643	1820	1538	24141	27347	1810	1420	22082	24819	1790
	-10	1806	33920	39225	1820	1629	30062	34354	1790	1570	28815	32797	1780	1451	26355	29758	1760
	0	1837	42881	49862	1820	1660	37902	43538	1780	1601	36294	41521	1770	1483	33148	37613	1750
	10	1867	56416	66024	1860	1690	49585	57297	1810	1631	47400	54540	1790	1513	43158	49240	1760
	20	1897	82729	97627	1990	1720	71733	83491	1910	1661	68277	79109	1890	1543	61709	70854	1840
	28	1914	124688	148243	2250	1737	105453	123423	2120	1678	99642	116039	2070	1560	88850	102458	2000
30													1567	104398	120653	2090	
1 1 6 0 0	-54	1656	23676	26593	2090	1479	20881	23211	2060	1420	19967	22117	2050	1302	18162	19977	2030
	-50	1669	23774	26767	2050	1492	20988	23381	2020	1433	20076	22285	2010	1315	18276	20144	2000
	-40	1702	23809	26930	1960	1525	21070	23578	1940	1466	20173	22493	1930	1348	18404	20372	1910
	-30	1733	24724	28136	1890	1555	21917	24668	1860	1496	20998	23546	1860	1378	19186	21355	1840
	-20	1760	27055	31026	1830	1583	23999	27208	1810	1524	23001	25976	1800	1406	21033	23570	1780
	-10	1792	32132	37028	1810	1615	28485	32444	1780	1556	27298	30970	1770	1438	24963	28100	1750
	0	1823	40222	46595	1800	1646	35572	40718	1770	1587	34067	38839	1750	1469	31120	35195	1730
	10	1853	52133	60759	1830	1676	45890	52823	1780	1617	43887	50308	1770	1499	39990	45462	1740
	20	1883	74215	87122	1930	1706	64625	74867	1860	1647	61602	71052	1840	1529	55790	63789	1790
	28	1906	125107	148053	2240	1729	105799	123323	2100	1670	99978	115971	2060	1552	89111	102384	1980
30													1558	105045	120925	2090	
1 1 4 0 0	-54	1647	22647	25295	2080	1470	19971	22083	2050	1411	19095	21043	2040	1292	17364	19007	2030
	-50	1660	22738	25453	2040	1483	20069	22239	2010	1424	19196	21198	2010	1306	17471	19162	1990
	-40	1692	22768	25601	1950	1515	20146	22419	1930	1456	19287	21389	1920	1338	17591	19373	1900
	-30	1723	23616	26711	1880	1545	20933	23425	1860	1486	20054	22362	1850	1368	18319	20282	1830
	-20	1749	25786	29412	1820	1572	22871	25797	1800	1513	21917	24630	1790	1395	20038	22349	1770
	-10	1779	30471	34957	1790	1602	27012	30637	1760	1543	25885	29246	1750	1425	23667	26535	1740
	0	1810	37799	43583	1780	1633	33443	38112	1750	1574	32031	36360	1740	1455	29262	32956	1720
	10	1840	48346	56058	1800	1662	42609	48812	1760	1603	40762	46509	1740	1485	37163	42061	1720
	20	1869	67124	78333	1880	1692	58642	67570	1810	1633	55952	64199	1790	1515	50760	57753	1760
	30	1897	125605	147789	2230	1720	106205	123161	2090	1661	100350	115827	2050	1543	89417	102259	1970

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
9,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
		1	-54	1636	20694	22745	2060	1459	18254	19887	2030	1400	17454	18959	2030	1282	15873
1	-50	1649	20772	22881	2020	1472	18340	20022	2000	1413	17542	19093	1990	1295	15966	17273	1970
1	-40	1681	20799	23006	1930	1504	18408	20176	1910	1445	17624	19258	1900	1326	16074	17456	1890
0	-30	1707	21547	24013	1860	1530	19100	21082	1840	1471	18297	20131	1830	1353	16711	18268	1820
0	-20	1729	23442	26427	1800	1551	20789	23194	1780	1492	19920	22147	1770	1374	18204	20098	1760
0	-10	1752	27478	31279	1770	1574	24352	27418	1740	1515	23331	26172	1730	1397	21320	23740	1720
0	0	1782	33546	38363	1750	1605	28693	33578	1720	1546	28440	32040	1710	1428	25979	29048	1690
10	1812	41944	48209	1750	1634	37028	42071	1710	1575	35438	40110	1700	1457	32330	36310	1680	
20	1840	55950	64651	1790	1663	49102	56063	1740	1604	46910	53348	1730	1486	42657	48127	1700	
30	1869	92804	107747	2000	1692	79945	91651	1910	1632	75946	86704	1880	1514	68331	77366	1820	
33	1877	125580	146642	2210	1699	106013	122061	2070	1640	100111	114742	2030	1522	89093	101205	1950	
1	-54	1623	18542	19962	2040	1446	16359	17488	2020	1387	15642	16681	2010	1269	14224	15096	1990
1	-50	1636	18606	20067	2000	1459	16431	17593	1980	1400	15716	16788	1970	1281	14303	15204	1960
1	-40	1667	18625	20157	1910	1490	16488	17712	1890	1431	15785	16916	1890	1313	14395	15350	1870
0	-30	1694	19244	20971	1840	1517	17063	18449	1820	1457	16347	17627	1810	1339	14931	16015	1800
0	-20	1712	20819	22978	1780	1535	18467	20203	1760	1476	17695	19302	1750	1358	16170	17533	1740
0	-10	1722	24200	27191	1740	1545	21441	23848	1720	1486	20538	22766	1710	1368	18756	20648	1700
0	0	1749	29111	32969	1710	1571	25766	28871	1690	1512	24675	27550	1680	1394	22527	24972	1660
10	1775	35576	40472	1700	1598	31439	35377	1670	1539	30095	33742	1660	1421	27460	30562	1640	
20	1804	45711	52234	1720	1627	40246	45478	1680	1568	38485	43326	1670	1449	35048	39161	1640	
30	1831	69026	79131	1830	1654	60132	68150	1770	1595	57313	64708	1750	1477	51876	58124	1710	
35	1845	104249	120196	2050	1668	88999	101330	1940	1609	84307	95594	1910	1491	75441	84845	1840	
1	-54	1610	16655	17537	2020	1433	14695	15393	2000	1374	14051	14693	1990	1256	12773	13311	1980
1	-50	1623	16708	17616	1980	1445	14755	15476	1960	1386	14113	14776	1960	1268	12841	13397	1940
1	-40	1654	16721	17677	1900	1477	14803	15565	1880	1418	14172	14874	1870	1300	12922	13513	1860
0	-30	1680	17238	18337	1820	1503	15286	16165	1800	1444	14644	15456	1800	1326	13372	14058	1790
0	-20	1697	18545	19971	1760	1520	16454	17597	1740	1461	15766	16823	1740	1343	14406	15301	1730
0	-10	1701	21342	23500	1720	1524	18910	20642	1700	1465	18113	19713	1690	1347	16536	17893	1680
0	0	1711	25401	28434	1690	1534	22472	24906	1660	1475	21515	23765	1650	1357	19625	21534	1640
10	1738	30498	34317	1660	1561	26948	30013	1640	1502	25802	28638	1630	1384	23532	25939	1610	
20	1766	38088	43024	1660	1589	33589	37546	1630	1530	32131	35791	1620	1412	29274	32381	1600	
30	1793	54016	61175	1720	1616	47324	53032	1670	1557	45180	50450	1660	1439	41012	45472	1630	
35	1807	74380	84515	1840	1630	64468	72451	1770	1571	61343	68686	1740	1453	55334	61507	1700	
9	-54	1597	14987	15441	2000	1420	13221	13581	1980	1361	12640	12970	1980	1243	11487	11763	1970
9	-50	1609	15029	15501	1970	1432	13268	13641	1950	1373	12693	13036	1940	1255	11545	11832	1930
9	-40	1640	15039	15539	1880	1463	13312	13710	1860	1404	12744	13110	1860	1286	11616	11923	1850
0	-30	1666	15473	16077	1810	1489	13721	14202	1790	1430	13143	13587	1790	1312	11998	12372	1780
0	-20	1683	16566	17421	1740	1506	14698	15382	1730	1447	14084	14715	1720	1329	12866	13399	1710
0	-10	1685	18869	20294	1700	1508	16722	17864	1680	1449	16017	17071	1670	1331	14621	15512	1660
0	0	1684	22217	24485	1660	1507	19649	21465	1640	1447	18808	20485	1630	1329	17146	18564	1620
10	1700	26371	29400	1630	1523	23296	25721	1610	1464	22291	24532	1600	1346	20311	22208	1590	
20	1727	32207	36031	1620	1550	28416	31478	1590	1491	27183	30012	1580	1373	24759	27155	1570	
30	1754	43657	48951	1650	1577	38359	42585	1610	1518	36648	40551	1600	1400	33307	36608	1570	
35	1767	56801	63840	1710	1590	49585	55167	1660	1531	47280	52423	1650	1413	42805	47140	1620	
9	-54	1583	13499	13592	1990	1406	11905	11979	1970	1347	11380	11447	1970	1229	10337	10393	1960
9	-50	1595	13534	13636	1950	1418	11948	12028	1940	1359	11425	11499	1930	1241	10387	10448	1920
9	-40	1626	13541	13655	1870	1449	11983	12074	1850	1390	11469	11552	1850	1272	10449	10519	1840
0	-30	1651	13908	14094	1790	1474	12329	12477	1780	1415	11808	11945	1770	1297	10775	10890	1760
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0	-10	1669	16737	17553	1680	1492	14833	15484	1660	1433	14206	14807	1660	1314	12965	13471	1650
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10	1667	22930	25171	1610	1490	20247	22035	1590	1431	19368	21018	1580	1313	17633	19025	1570	
20	1686	27621	30572	1590	1509	24359	26714	1560	1450	23294	25467	1550	1332	21203	23037	1540	
30	1713	36202	40148	1590	1536	31843	34989	1560	1477	30428	33331	1550	1358	27655	30106	1530	
35	1726	45313	50346	1630	1549	39691	43688	1590	1489	37879	41563	1580	1371	34343	37447	1560	
8	-54	1568	12161	12252	1970	1391	10720	10792	1960	1332	10245	10310	1950	1214	9300	9355	1950
8	-50	1580	12191	12290	1940	1403	10757	10835	1920	1344	10283	10355	1920	1226	9343	9403	1910
8	-40	1610	12195	12306	1850	1433	10786	10874	1840	1374	10321	10402	1840	1256	9398	9466	1830
0	-30	1635	12506	12684	1780	1458	11082	11222	1770	1399	10611	10741	1760	1281	9677	9786	1750
0	-20	1651	13284	13632	1720	1474	11778	12056	1700	1415	11283	11538	1700	1296	10297	10512	1690
0	-10	1652	14882	15628	1660	1475	13185	13780	1650	1416	12625	13174	1640	1298	11516	11978	1640
0	0	1648	17144	18458	1620	1471	15165	16213	1600	1412	14515	15481	1600	1294	13226	14040	1590
10	1647	19943	21963	1580	1469	17610	19221	1570	1410	16845	18331	1560	1292	1533			

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
10,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1726	30163	34722	2140	1549	26640	30303	2100	1490	25493	28882	2090	1372	23237	26115	2070
	-50	1740	30517	35250	2100	1563	26972	30778	2070	1504	25817	29340	2060	1386	23547	26542	2030
	-40	1775	30480	35381	2010	1598	27010	30970	1980	1539	25878	29550	1970	1421	23653	26786	1950
	-30	1809	32428	37822	1940	1632	28772	33144	1910	1573	27574	31632	1900	1455	25244	28717	1880
	-20	1843	37064	43465	1910	1665	32877	38070	1870	1606	31518	36342	1860	1488	28854	32987	1840
	-10	1876	46159	54449	1910	1698	40829	47541	1860	1639	39110	45342	1850	1521	35755	41092	1820
	0	1908	63028	74925	1970	1730	55338	64890	1910	1671	52890	61738	1890	1553	48153	55699	1850
	10	1939	94016	113158	2130	1762	81111	96119	2040	1703	77121	90927	2010	1585	69546	81176	1950
16	1958	134981	185617	2390	1781	113183	135679	2230	1722	106747	127179	2180	1604	94876	111711	2100	
18					1786	133869	221188	2370	1727	125499	180846	2310	1609	110402	130502	2200	
1 2 2 0 0 0	-54	1716	28936	33212	2120	1539	25555	28987	2090	1479	24453	27628	2080	1361	22284	24979	2060
	-50	1730	29264	33698	2090	1553	25863	29427	2060	1493	24754	28053	2050	1375	22574	25376	2020
	-40	1764	29230	33824	2000	1587	25898	29607	1970	1528	24812	28250	1960	1410	22674	25606	1940
	-30	1798	31037	36082	1930	1621	27539	31626	1900	1562	26399	30192	1890	1444	24158	27402	1870
	-20	1831	35322	41282	1890	1654	31338	36172	1860	1595	30044	34533	1850	1477	27504	31349	1820
	-10	1864	43617	51266	1890	1687	38607	44800	1840	1628	36988	42739	1830	1510	33824	38749	1810
	0	1896	58616	69391	1930	1719	51556	60224	1880	1660	49301	57334	1860	1542	44926	51783	1830
	10	1928	84770	101435	2060	1750	73534	86697	1980	1691	70024	82157	1950	1573	63319	73577	1900
18	1952	136123	197093	2380	1775	114111	136242	2220	1716	107592	127692	2170	1598	95611	112174	2090	
20									1724	126967	207026	2300	1606	111642	134083	2190	
1 2 0 0 0	-54	1704	27613	31566	2110	1526	24383	27554	2080	1467	23329	26261	2070	1349	21254	23740	2050
	-50	1717	27914	32011	2080	1540	24667	27957	2040	1481	23607	26651	2030	1363	21522	24106	2010
	-40	1750	27880	32124	1990	1573	24699	28123	1960	1514	23661	26834	1950	1396	21617	24320	1930
	-30	1785	29544	34197	1920	1608	26214	29979	1890	1549	25127	28621	1880	1431	22989	25975	1860
	-20	1818	33469	38938	1870	1641	29706	34139	1840	1582	28473	32589	1830	1464	26064	29587	1810
	-10	1851	40964	47916	1860	1674	36280	41910	1830	1615	34764	39990	1810	1496	31796	36271	1790
	0	1883	54165	63779	1900	1705	47721	55466	1850	1646	45654	52835	1830	1528	41639	47771	1800
	10	1914	76082	90422	2000	1736	66296	77689	1920	1677	63215	73735	1900	1559	57300	66219	1860
20	1944	134196	195269	2350	1767	112724	133781	2200	1708	106352	125498	2150	1590	94566	110367	2060	
22									1716	125444	220805	2270	1597	110441	129310	2170	
1 1 8 0 0	-54	1692	26353	30010	2100	1515	23268	26199	2070	1456	22261	24970	2060	1338	20276	22570	2040
	-50	1706	26633	30427	2060	1529	23532	26577	2030	1470	22520	25335	2020	1352	20526	22913	2000
	-40	1740	26603	30540	1970	1562	23565	26738	1950	1503	22573	25512	1940	1385	20617	23119	1920
	-30	1772	28146	32469	1910	1595	24970	28466	1880	1536	23933	27176	1870	1418	21891	24660	1850
	-20	1805	31749	36807	1860	1628	28175	32273	1830	1569	27011	30815	1820	1451	24722	27976	1800
	-10	1837	38544	44918	1840	1660	34152	39313	1810	1601	32728	37519	1800	1483	29937	34038	1770
	0	1869	50236	58908	1870	1692	44317	51311	1820	1633	42414	48901	1810	1515	38707	44249	1780
	10	1900	68857	81413	1940	1723	60208	70227	1880	1664	57468	66731	1860	1545	52187	60056	1820
20	1930	113317	135606	2200	1753	96562	113721	2080	1694	91466	107166	2040	1575	81903	94999	1970	
22	1936	132377	194077	2320	1759	111400	131575	2170	1700	105148	123512	2130	1582	93557	108736	2040	
													1589	109300	127387	2140	
1 6 0 0	-54	1683	25149	28472	2090	1506	22205	24865	2060	1447	21242	23700	2050	1329	19345	21425	2030
	-50	1696	25406	28851	2050	1519	22448	25210	2020	1460	21482	24035	2010	1342	19576	21739	2000
	-40	1730	25376	28951	1960	1553	22479	25357	1940	1493	21530	24196	1930	1375	19663	21930	1910
	-30	1762	26834	30821	1890	1584	23797	27019	1870	1525	22811	25798	1860	1407	20858	23406	1840
	-20	1792	30148	34794	1850	1615	26754	30515	1820	1556	25647	29137	1810	1438	23469	26452	1790
	-10	1824	36327	42135	1830	1647	32197	36899	1790	1588	30857	35221	1780	1470	28226	31959	1760
	0	1855	46737	54527	1840	1678	41274	47561	1800	1619	39513	45343	1780	1501	36078	41059	1760
	10	1886	62759	73762	1900	1709	55006	63811	1840	1650	52544	60691	1820	1532	47784	54714	1780
20	1916	98033	116302	2090	1739	84319	98580	1990	1680	80083	93183	1960	1562	72054	83054	1900	
24	1928	130655	191879	2300	1750	110131	129324	2150	1691	103991	121476	2100	1573	92584	107054	2020	
26													1580	108184	125393	2120	
1 4 0 0	-54	1673	24015	27053	2080	1496	21202	23632	2050	1437	20281	22526	2040	1319	18465	20363	2020
	-50	1687	24251	27399	2040	1509	21427	23948	2010	1450	20503	22833	2000	1332	18681	20653	1990
	-40	1720	24222	27489	1950	1543	21455	24084	1930	1484	20549	22983	1920	1365	18763	20831	1900
	-30	1749	25570	29219	1880	1572	22680	25626	1860	1512	21735	24465	1850	1394	19871	22198	1830
	-20	1778	28654	32955	1830	1601	25425	28905	1810	1542	24371	27599	1800	1424	22296	25053	1780
	-10	1810	34287	39626	1810	1633	30396	34716	1780	1574	29131	33140	1770	1456	26646	30073	1750
	0	1841	43603	50671	1820	1664	38537	44244	1780	1605	36901	42193	1760	1487	33703	38224	1740
	10	1872	57481	67255	1860	1695	50504	58344	1800	1636	48273	55531	1790	1518	43947	50128	1750
20	1902	86226	101660	2000	1724	74649	86809	1920	1665	71035	82232	1890	1547	64133	73577	1840	
26					1742	108916	127305	2130	1683	102880	119645	2080	1565	91641	105534	2000	

525AFM-06-01



Figure 4-28 (Sheet 21)

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
10,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1658	21891	24277	2050	1481	19330	21235	2030	1422	18490	20249	2020	1304	16833	18317	2000
	-50	1672	22094	24573	2020	1495	19525	21506	1990	1436	18683	20513	1990	1318	17020	18566	1970
	-40	1707	22070	24650	1930	1529	19551	21624	1910	1470	18726	20643	1900	1352	17095	18721	1890
	-30	1728	23259	26241	1860	1551	20627	23029	1840	1492	19762	21986	1830	1374	18063	19955	1820
	-20	1752	25929	29529	1810	1575	23000	25907	1790	1516	22043	24737	1780	1398	20155	22451	1760
	-10	1782	30662	35113	1780	1605	27185	30781	1750	1546	26052	29387	1740	1428	23822	26668	1720
	0	1813	38212	43974	1770	1636	33809	38461	1740	1577	32382	36695	1730	1459	29585	33265	1710
	10	1843	48893	56594	1790	1666	43086	49279	1750	1607	41218	46954	1730	1489	37579	42466	1710
	20	1873	69007	80335	1880	1696	60246	69262	1810	1637	57471	65797	1790	1518	52119	59176	1750
	29	1899	118281	138629	2170	1721	100518	116162	2040	1662	95118	109421	2010	1544	84985	96898	1930
	30					1724	112671	130531	2120	1664	106298	122555	2080	1546	94463	107891	1990
	1 0 5 0 0	-54	1646	19537	21206	2030	1469	17258	18587	2010	1410	16509	17735	2000	1292	15029	16062
-50		1659	19704	21437	2000	1481	17418	18802	1970	1422	16668	17945	1970	1304	15185	16261	1950
-40		1691	19680	21488	1910	1514	17440	18889	1890	1455	16705	18044	1880	1337	15250	16384	1870
-30		1713	20660	22792	1840	1536	18329	20043	1820	1477	17564	19150	1810	1359	16052	17398	1800
-20		1726	22919	25714	1790	1549	20326	22576	1760	1489	19476	21560	1760	1371	17798	19570	1740
-10		1747	26820	30418	1750	1570	23770	26669	1720	1511	22773	25459	1720	1393	20808	23095	1700
0		1777	32736	37290	1730	1600	28980	32651	1700	1541	27758	31159	1690	1423	25355	28253	1670
10		1806	40694	46587	1730	1629	35936	40679	1690	1570	34397	38790	1680	1452	31385	35126	1660
20		1835	54467	62638	1770	1658	47829	54370	1720	1599	45703	51753	1710	1481	41571	46711	1680
30		1864	89861	103844	1960	1687	77521	88495	1880	1628	73673	83763	1850	1509	66334	74814	1800
33		1872	123632	143822	2180	1694	104423	119793	2050	1635	98624	112632	2000	1517	87791	99385	1930
1 0 0 0 0		-54	1633	17491	18568	2010	1456	15452	16308	1990	1396	14781	15570	1980	1278	13454	14117
	-50	1645	17633	18754	1980	1468	15586	16478	1960	1409	14914	15737	1950	1291	13586	14277	1940
	-40	1679	17605	18777	1890	1501	15606	16543	1870	1442	14946	15811	1870	1324	13643	14374	1850
	-30	1699	18415	19837	1820	1521	16341	17482	1800	1462	15660	16714	1790	1344	14310	15203	1780
	-20	1712	20264	22199	1760	1534	17979	19534	1740	1475	17229	18667	1740	1357	15745	16966	1720
	-10	1717	23515	26287	1720	1540	20835	23063	1700	1481	19957	22019	1690	1363	18224	19975	1680
	0	1740	28288	31905	1700	1563	25037	27947	1670	1504	23977	26670	1660	1386	21888	24176	1650
	10	1769	34381	38949	1680	1592	30388	34061	1650	1533	29090	32490	1640	1414	26543	29434	1620
	20	1797	44295	50374	1700	1620	39015	43891	1660	1561	37311	41822	1650	1443	33984	37816	1620
	30	1825	66536	75925	1800	1648	58016	65472	1740	1589	55310	62188	1720	1470	50085	55898	1680
	33	1833	83841	95961	1900	1656	72405	81916	1820	1597	68825	77566	1800	1478	61978	69317	1750
	9 5 0 0	-54	1619	15692	16273	1990	1442	13862	14323	1980	1383	13260	13684	1970	1265	12067	12421
-50		1632	15806	16414	1960	1454	13975	14458	1940	1395	13372	13817	1940	1277	12178	12551	1920
-40		1663	15785	16424	1870	1486	13990	14500	1860	1427	13400	13869	1850	1309	12229	12624	1840
-30		1684	16459	17290	1800	1507	14606	15270	1790	1448	13996	14610	1780	1330	12788	13305	1770
-20		1696	17987	19212	1740	1519	15961	16943	1730	1459	15295	16203	1720	1341	13977	14745	1710
-10		1698	20643	22562	1700	1521	18294	19832	1680	1462	17523	18945	1670	1344	15999	17203	1660
0		1705	24565	27352	1670	1528	21732	23968	1640	1469	20805	22872	1640	1351	18977	20729	1620
10		1730	29361	32908	1640	1553	25951	28797	1620	1494	24839	27471	1610	1375	22651	24883	1590
20		1757	36749	41328	1640	1580	32414	36085	1610	1521	31008	34402	1600	1403	28251	31130	1580
30		1785	51853	58478	1690	1608	45456	50739	1650	1548	43400	48278	1630	1430	39405	43532	1610
33		1793	62291	70382	1750	1616	54311	60724	1690	1557	51769	57680	1680	1439	46854	51839	1640
9 0 0 0		-54	1605	14098	14272	1980	1428	12452	12589	1960	1369	11909	12035	1960	1251	10833	10938
	-50	1617	14194	14381	1940	1440	12547	12696	1930	1381	12004	12141	1920	1263	10928	11042	1910
	-40	1650	14174	14377	1860	1472	12560	12721	1840	1413	12028	12177	1840	1295	10973	11098	1830
	-30	1669	14739	15086	1790	1492	13077	13354	1770	1433	12530	12785	1770	1315	11444	11658	1760
	-20	1680	16011	16665	1730	1503	14207	14730	1710	1443	13613	14095	1710	1325	12435	12842	1700
	-10	1681	18186	19375	1680	1504	16118	17069	1660	1445	15439	16316	1660	1327	14093	14834	1640
	0	1679	21383	23345	1640	1502	18914	20483	1620	1443	18105	19553	1620	1325	16505	17729	1600
	10	1690	25298	28028	1610	1513	22346	24529	1590	1454	21381	23396	1580	1336	19478	21182	1570
	20	1716	30984	34467	1600	1539	27335	30120	1570	1480	26146	28719	1560	1362	23809	25986	1550
	30	1744	41807	46619	1620	1567	36741	40579	1590	1508	35103	38647	1580	1390	31901	34896	1550
	33	1751	48708	54389	1650	1573	42662	47179	1610	1514	40719	44884	1600	1396	36932	40446	1570
	8 5 0 0	-54	1590	12673	12824	1960	1413	11189	11308	1950	1354	10699	10808	1940	1236	9727	9818
-50		1602	12754	12917	1930	1425	11270	11399	1910	1366	10780	10899	1910	1248	9808	9907	1900
-40		1635	12735	12912	1850	1458	11281	11421	1830	1399	10798	10927	1830	1280	9848	9957	1820
-30		1653	13211	13520	1770	1476	11717	11963	1760	1417	11224	11451	1760	1299	10246	10437	1750
-20		1663	14276	14863	1710	1485	12664	13132	1700	1426	12132	12564	1690	1308	11077	11441	1680
-10		1663	16072	17133	1660	1486	14242	15090	1650	1427	13640	14422	1640	1309	12446	13105	1630
0		1660	18676	20409	1620	1483	16522	17906	1600	1424	15814	17092	1600	1306	14414	15492	1590
10		1659	21896	24470	1590	1482	19333	21389	1570	1423	18493	20390	1560	1305	16833	18435	1550
20		1672	26487	29957	1570	1495	23349	26121	1540	1436	22324	24883	1540	1318	20304</		

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
11,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1757	33015	38306	2150	1579	29174	33431	2110	1520	27925	31867	2100	1402	25472	28828	2070
	-50	1771	33541	39046	2110	1594	29655	34091	2080	1535	28393	32502	2060	1417	25914	29416	2040
	-40	1806	33417	39097	2020	1629	29623	34220	1990	1570	28389	32656	1980	1452	25967	29615	1950
	-30	1841	36057	42384	1960	1664	31997	37132	1920	1605	30678	35450	1910	1487	28099	32190	1890
	-20	1875	42665	50458	1940	1698	37808	44131	1900	1639	36238	42113	1880	1521	33167	38206	1860
	-10	1909	54768	65224	1960	1731	48312	56757	1910	1672	46243	54080	1890	1554	42223	48931	1860
	0	1941	78918	94901	2080	1764	68784	81503	2000	1705	65599	77351	1970	1587	59492	69474	1930
10	1974	135124	174719	2430	1797	113367	136768	2260	1738	106947	128214	2210	1620	95102	112646	2130	
11	1976	146106	204844	2500	1799	121454	149553	2320	1740	114298	137443	2260	1622	101223	120184	2160	
13					1806	143558	219586	2460	1746	133180	188689	2390	1628	116549	146777	2260	
1 2 2 0 0	-54	1746	31589	36536	2130	1569	27915	31894	2100	1510	26719	30404	2090	1392	24370	27504	2060
	-50	1760	32074	37218	2100	1583	28361	32504	2060	1524	27153	30991	2050	1406	24780	28048	2030
	-40	1795	31958	37267	2010	1618	28332	32627	1970	1559	27152	31137	1960	1441	24833	28238	1940
	-30	1830	34395	40294	1950	1653	30528	35314	1910	1594	29270	33716	1900	1475	26801	30611	1880
	-20	1864	40449	47665	1920	1687	35862	41718	1880	1627	34377	39817	1870	1509	31469	36134	1840
	-10	1897	51336	60896	1930	1720	45339	53068	1890	1661	43413	50587	1870	1543	39661	45804	1840
	0	1929	72263	86470	2030	1752	63189	74541	1960	1693	60321	70823	1930	1575	54802	63739	1890
10	1961	116379	141775	2290	1784	99005	118484	2160	1725	93754	111565	2120	1607	83932	98781	2040	
13	1971	143954	204843	2470	1794	119840	145865	2290	1734	112818	135272	2240	1616	99964	118373	2140	
15					1800	141467	239985	2430	1741	132278	196311	2360	1623	115885	146674	2240	
1 2 0 0 0	-54	1733	30060	34621	2120	1556	26563	30230	2080	1497	25424	28818	2070	1379	23185	26068	2050
	-50	1749	30503	35242	2080	1572	26973	30787	2050	1513	25823	29355	2040	1394	23563	26568	2020
	-40	1782	30396	35288	1990	1605	26948	30903	1960	1546	25825	29493	1950	1428	23614	26747	1930
	-30	1817	32625	38046	1930	1640	28960	33356	1900	1581	27767	31849	1890	1462	25422	28918	1870
	-20	1850	38119	44704	1900	1673	33811	39153	1860	1614	32414	37376	1850	1496	29675	33929	1830
	-10	1883	47816	56425	1910	1706	42277	49243	1860	1647	40493	46960	1850	1529	37013	42552	1820
	0	1916	65775	78229	1980	1739	57686	67672	1910	1680	55116	64362	1890	1562	50152	58033	1850
10	1947	100532	121254	2170	1770	86415	102570	2060	1711	82073	96910	2030	1593	73860	86322	1970	
15	1963	139179	195811	2410	1786	116398	139546	2250	1727	109703	130709	2200	1609	97386	114670	2110	
17					1792	136876	232040	2380	1733	128232	188779	2320	1615	112681	136374	2200	
1 1 8 0 0	-54	1721	28629	32835	2110	1544	25297	28675	2070	1485	24210	27335	2060	1367	22072	24725	2040
	-50	1735	29034	33401	2070	1558	25672	29184	2040	1499	24577	27827	2030	1381	22420	25184	2010
	-40	1770	28936	33444	1980	1592	25652	29293	1950	1533	24580	27957	1940	1415	22472	25353	1920
	-30	1804	30979	35962	1920	1626	27499	31538	1890	1567	26365	30114	1880	1449	24136	27343	1860
	-20	1837	35980	41994	1880	1660	31923	36801	1850	1601	30614	35145	1840	1483	28020	31901	1810
	-10	1870	44658	52431	1880	1693	39520	45811	1840	1634	37861	43703	1830	1516	34620	39622	1800
	0	1902	60219	71208	1930	1725	52937	61769	1880	1666	50613	58797	1860	1548	46110	53094	1820
10	1933	88388	105731	2080	1756	76522	90181	1990	1697	72826	85405	1960	1579	65785	76402	1910	
17	1955	134865	185362	2370	1778	113242	134869	2210	1719	106836	126500	2160	1601	94999	111230	2070	
19					1786	132656	226390	2330	1727	124483	178982	2270	1609	109673	128827	2170	
1 1 6 0 0	-54	1708	27286	31195	2090	1531	24106	27243	2060	1472	23068	25969	2050	1354	21025	23485	2030
	-50	1722	27658	31713	2060	1545	24453	27711	2030	1486	23407	26421	2020	1368	21347	23908	2000
	-40	1756	27567	31753	1970	1579	24434	27814	1940	1520	23412	26544	1930	1402	21398	24068	1910
	-30	1790	29443	34060	1900	1613	26135	29874	1870	1554	25056	28526	1860	1436	22931	25898	1850
	-20	1824	34007	39547	1870	1646	30179	34670	1830	1587	28934	33104	1820	1469	26488	30059	1800
	-10	1856	41808	48892	1860	1679	37023	42759	1820	1620	35475	40800	1810	1502	32447	37006	1780
	0	1888	55403	65222	1890	1711	48792	56699	1840	1652	46675	54005	1830	1534	42563	48822	1790
10	1919	78710	93582	2000	1742	68496	80289	1930	1683	65289	76171	1900	1565	59140	68357	1860	
19	1947	130860	172625	2320	1770	110261	130632	2170	1711	104116	122671	2130	1592	92716	108074	2040	
20					1772	118725	140919	2220	1713	111867	132015	2170	1595	99241	115825	2080	
21					1778	128741	220507	2290	1719	120979	165420	2230	1600	106827	124862	2130	
1 1 4 0 0	-54	1698	25993	29547	2080	1521	22966	25816	2050	1462	21976	24611	2040	1344	20026	22258	2020
	-50	1711	26343	30039	2050	1534	23289	26256	2020	1475	22292	25036	2010	1357	20327	22655	1990
	-40	1745	26260	30081	1960	1568	23275	26356	1930	1509	22300	25155	1920	1391	20377	22809	1900
	-30	1777	28006	32254	1890	1600	24854	28290	1860	1541	23828	27016	1850	1423	21802	24525	1840
	-20	1810	32184	37252	1850	1633	28563	32669	1820	1574	27384	31196	1810	1456	25066	28328	1790
	-10	1842	39222	45642	1840	1665	34751	39949	1800	1606	33302	38127	1790	1488	30463	34593	1770
	0	1874	51182	59928	1860	1697	45141	52192	1810	1638	43200	49739	1800	1520	39422	45007	1770
10	1905	70758	83570	1940	1728	61835	72046	1880	1669	59007	68443	1850	1550	53561	61572	1810	
20	1936	118152	141166	2220	1759	100433	118102	2090	1700	95066	111220	2050	1582	85018	98473	1980	
21	1938	127119	154228	2280	1761	107434	126499	2130	1702	101526	118916	2090	1584	90527	104955	2010	

525AFM-06-01

Figure 4-28 (Sheet 23)

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
11,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1000	-54	1678	23634	26564	2060	1501	20876	23221	2030	1442	19974	22140	2020	1324	18194	20026	2000
	-50	1691	23927	26971	2020	1514	21152	23591	2000	1455	20248	22502	1990	1337	18452	20361	1970
	-40	1724	23851	26998	1930	1547	21141	23675	1910	1488	20253	22599	1900	1370	18500	20495	1880
	-30	1752	25363	28917	1870	1575	22506	25376	1840	1516	21572	24232	1830	1398	19729	21997	1820
	-20	1782	28917	33198	1820	1605	25662	29125	1790	1546	24599	27812	1790	1428	22508	25252	1770
	-10	1815	34705	40039	1800	1638	30767	35083	1770	1579	29487	33492	1760	1461	26974	30398	1740
	0	1845	44123	51183	1810	1668	38995	44695	1770	1609	37339	42625	1750	1491	34104	38619	1730
	10	1876	58492	68326	1850	1699	51374	59257	1800	1640	49100	56397	1780	1521	44693	50905	1750
	20	1905	88282	103857	2000	1728	76372	88629	2120	1669	72659	83942	1890	1551	65575	75086	1840
	26					1746	109673	127886	2110	1687	103642	120259	2070	1569	92297	106078	1990
1050	-54	1663	20978	23065	2030	1486	18538	20205	2010	1427	17738	19276	2000	1309	16157	17455	1980
	-40	1708	21162	23421	1910	1531	18761	20576	1890	1472	17974	19653	1880	1354	16418	17842	1870
	-30	1729	22440	25129	1840	1552	19111	22078	1820	1492	19082	21088	1810	1374	17444	19151	1800
	-20	1748	25393	28784	1790	1571	22527	25263	1770	1512	21589	24125	1760	1394	19740	21900	1750
	-10	1778	30023	34250	1760	1601	26619	30033	1730	1542	25509	28674	1720	1424	23325	26025	1710
	0	1808	37193	42632	1750	1631	32916	37305	1720	1572	31527	35597	1710	1454	28806	32278	1690
	10	1838	47436	54681	1770	1661	41822	47648	1730	1602	40015	45412	1710	1484	36489	41088	1690
	20	1868	66260	76749	1840	1690	57930	66291	1780	1631	55284	63009	1760	1513	50176	56728	1730
	29	1894	116491	136060	2140	1717	99026	114073	2020	1657	93710	107466	1980	1539	83733	95179	1910
	30					1719	111295	128522	2100	1660	105001	120680	2050	1542	93285	106229	1970
31													1546	105564	120500	2050	
1000	-54	1649	18685	20084	2010	1472	16517	17631	1990	1413	15804	16832	1980	1295	14395	15260	1970
	-50	1661	18884	20348	1970	1484	16705	17873	1950	1425	15990	17067	1950	1307	14574	15482	1930
	-40	1694	18833	20353	1890	1516	16701	17920	1870	1457	16001	17127	1860	1339	14615	15568	1850
	-30	1714	19876	21728	1820	1537	17643	19132	1800	1478	16909	18287	1790	1360	15459	16628	1780
	-20	1724	22337	24886	1770	1547	19813	21865	1750	1488	18986	20886	1740	1369	17352	18967	1720
	-10	1741	26144	29518	1730	1564	23170	25888	1710	1505	22197	24715	1700	1387	20280	22422	1680
	0	1771	31730	35994	1710	1593	28092	31528	1680	1534	26907	30090	1670	1416	24578	27288	1650
	10	1800	39319	44817	1710	1623	34733	39157	1670	1564	33247	37344	1660	1446	30339	33827	1640
	20	1829	52172	59697	1740	1652	45857	51885	1700	1592	43830	49406	1680	1474	39888	44626	1650
	30	1857	87666	100904	1930	1680	75667	86051	1850	1621	71921	81467	1820	1503	64771	72790	1770
31	1859	96449	111194	1990	1682	82813	94299	1890	1623	78589	89126	1860	1505	70569	79387	1810	
1050	-54	1635	16690	17516	1990	1458	14754	15410	1970	1399	14117	14722	1960	1281	12856	13363	1950
	-50	1647	16855	17724	1950	1470	14912	15603	1940	1411	14272	14910	1930	1293	13006	13542	1920
	-40	1679	16810	17715	1870	1502	14909	15632	1850	1443	14283	14951	1850	1325	13044	13608	1830
	-30	1699	17669	18829	1800	1522	15686	16616	1780	1463	15034	15894	1780	1345	13742	14470	1760
	-20	1708	19675	21368	1740	1531	17459	18819	1730	1472	16731	17989	1720	1354	15291	16357	1710
	-10	1711	22817	25345	1700	1534	20216	22246	1680	1475	19364	21241	1680	1357	17680	19273	1660
	0	1731	27307	30648	1680	1554	24168	26853	1650	1495	23143	25627	1640	1377	21123	23232	1630
	10	1760	33088	37291	1660	1583	29242	32620	1630	1524	28000	31126	1620	1406	25547	28204	1600
	20	1788	42311	47842	1670	1611	37289	41726	1630	1552	35666	39771	1620	1434	32493	35980	1600
	30	1816	64422	73143	1770	1639	56197	63119	1710	1580	53583	59966	1690	1462	48527	53919	1660
31	1819	69196	78631	1800	1642	60206	67671	1730	1583	57357	64235	1710	1464	51868	57667	1680	
1000	-54	1621	14938	15311	1970	1443	13203	13499	1950	1384	12632	12903	1950	1266	11499	11726	1940
	-50	1632	15075	15475	1940	1455	13335	13653	1920	1396	12762	13054	1920	1278	11626	11871	1900
	-40	1666	15036	15455	1850	1489	13334	13668	1840	1430	12773	13081	1830	1312	11661	11920	1820
	-30	1683	15748	16363	1780	1506	13980	14471	1770	1447	13398	13851	1760	1329	12243	12626	1750
	-20	1692	17399	18424	1730	1515	15446	16266	1710	1456	14796	15554	1700	1338	13520	14161	1690
	-10	1694	19936	21603	1680	1517	17669	19004	1660	1458	16925	18158	1660	1339	15452	16496	1640
	0	1697	23603	26131	1650	1520	20880	22905	1630	1461	19988	21860	1620	1343	18228	19813	1600
	10	1719	28155	31422	1620	1542	24882	27500	1600	1482	23814	26234	1590	1364	21710	23761	1570
	20	1746	35010	39187	1620	1569	30886	34233	1590	1510	29547	32641	1580	1392	26919	29542	1560
	30	1773	49940	56082	1670	1596	43784	48678	1620	1537	41806	46323	1610	1419	37954	41774	1580
31	1776	52900	59441	1680	1599	46310	51513	1640	1540	44197	48997	1620	1422	40090	44145	1590	
1050	-54	1605	13383	13686	1960	1428	11825	12065	1940	1369	11311	11532	1940	1251	10291	10476	1930
	-50	1617	13497	13824	1920	1439	11936	12195	1910	1380	11421	11659	1900	1262	10399	10599	1890
	-40	1648	13464	13806	1840	1471	11936	12208	1820	1412	11431	11682	1820	1294	10431	10642	1810
	-30	1667	14058	14574	1770	1490	12476	12888	1750	1431	11954	12334	1750	1313	10919	11239	1740
	-20	1674	15428	16310	1710	1497	13688	14394	1690	1438	13115	13766	1690	1320	11979	12529	1680
	-10	1675	17497	18936	1660	1498	15506	16659	1640	1439	14852	15916	1640	1321	13555	14455	1630
	0	1673	20451	22689	1620	1496	18090	19882	1600	1437	17316	18971	1600	1318	15785	17184	1590
	10	1679	24169	27295	1590	1502	21344	23847	1570	1443	20420	22733	1560	1325	18597	20553	1550
	20	1702	29478	33494	1580	1525	26002	29217	1550	1466	24869	27840	1540	1347	22638	25155	1530
	30	1728	40151	45767	1600	1551	35279	39764	1560	1492	33702	37845	1550	1374	30617	34121	1530
31	1731	42145	48064	1610	1554	36995	41719	157									

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
12,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
		1	-54	1788	36875	43164	2170	1611	32577	37640	2130	1551	31184	35874	2110	1433	28456
2	-50	1802	37085	43516	2130	1625	32793	37978	2090	1566	31401	36207	2080	1448	28676	32775	2050
3	-40	1838	37493	44219	2040	1661	33232	38677	2000	1602	31850	36906	1990	1484	29142	33473	1970
7	-30	1874	40403	47884	1980	1697	35844	41922	1940	1638	34368	40018	1930	1519	31478	36328	1910
5	-20	1908	50089	59787	1990	1731	44297	52155	1940	1672	42435	49735	1920	1554	38806	45067	1890
	-10	1942	66791	80366	2040	1765	58640	69547	1980	1706	56052	66161	1960	1588	51055	59691	1920
	0	1976	105842	129322	2270	1799	90842	109120	2150	1740	86250	103035	2120	1622	77592	91697	2050
	5	1992	148032	196934	2550	1815	123010	151576	2360	1756	115765	139972	2300	1638	102544	122383	2200
	7	1999	212767	312329	3020	1821	145224	197471	2510	1762	134800	177236	2430	1644	117972	145789	2310
1	-54	1777	35154	40970	2150	1600	31065	35745	2110	1541	29738	34073	2100	1423	27136	30827	2070
2	-50	1791	35347	41292	2120	1614	31263	36056	2080	1555	29939	34380	2060	1437	27340	31127	2040
2	-40	1827	35722	41938	2030	1650	31671	36704	1990	1591	30355	35028	1980	1473	27775	31775	1950
0	-30	1862	38366	45283	1970	1685	34068	39671	1930	1626	32668	37875	1920	1508	29924	34393	1890
0	-20	1897	47158	56009	1960	1720	41743	48919	1920	1661	39998	46665	1900	1543	36593	42312	1870
0	-10	1931	61890	74050	2000	1754	54452	64247	1940	1695	52081	61165	1930	1576	47491	55259	1890
	0	1964	94251	114224	2180	1787	81467	97178	2080	1728	77505	91976	2050	1609	69992	82201	1990
	7	1987	145339	193188	2510	1809	121008	147695	2330	1750	113932	137187	2270	1632	100999	120077	2180
	9	1992	211816	315934	2990	1815	141759	194546	2470	1756	132538	174246	2400	1638	116130	142420	2270
1	-54	1764	33324	38700	2130	1587	29453	33779	2100	1528	28195	32201	2090	1410	25727	29135	2060
2	-50	1779	33499	38993	2100	1602	29635	34063	2060	1542	28380	32482	2050	1424	25915	29411	2030
2	-40	1814	33841	39584	2010	1637	30009	34659	1980	1578	28763	33080	1960	1460	26317	30010	1940
0	-30	1849	36256	42611	1950	1672	32188	37350	1910	1613	30867	35664	1900	1495	28275	32390	1880
0	-20	1883	44122	52192	1940	1706	39088	45635	1890	1647	37463	43545	1880	1529	34286	39503	1850
0	-10	1917	56986	67872	1970	1740	50235	59023	1910	1681	48075	56229	1890	1563	43982	50861	1860
	0	1950	83645	100714	2100	1773	72727	86266	2010	1714	69326	81824	1990	1595	62780	73375	1940
	9	1979	139166	181620	2450	1802	116423	140525	2280	1743	109750	131620	2230	1625	97485	115483	2140
	10	1982	151165	213222	2530	1804	125149	156317	2330	1745	117659	142312	2280	1627	104031	123560	2180
	12					1814	158318	234647	2560	1754	137988	198377	2410	1636	120437	154327	2280
1	-54	1752	31624	36562	2120	1574	27953	31924	2080	1515	26759	30435	2070	1397	24413	27539	2050
1	-50	1766	31783	36829	2080	1589	28120	32184	2050	1530	26929	30693	2040	1412	24587	27793	2010
8	-40	1801	32095	37368	1990	1624	28464	32732	1960	1565	27283	31243	1950	1447	24959	28346	1930
0	-30	1836	34292	40112	1930	1659	30450	35176	1900	1599	29201	33592	1890	1481	26748	30512	1860
0	-20	1870	41374	48696	1910	1693	36678	42618	1870	1634	35158	40677	1860	1516	32185	36917	1840
0	-10	1903	52688	62409	1930	1726	46518	54376	1880	1667	44538	51832	1870	1549	40685	46930	1830
	0	1936	75032	89721	2030	1759	65526	77241	1960	1700	62529	73360	1940	1582	56770	65978	1890
	10	1967	124209	151497	2330	1790	105100	125822	2180	1731	99377	118275	2140	1613	88735	104418	2060
	12	1974	144090	198868	2460	1797	120023	145003	2280	1738	113011	135167	2230	1620	100174	118337	2130
	14					1803	140249	216739	2410	1744	131220	184879	2350	1626	115092	141753	2230
1	-54	1739	30040	34578	2100	1562	26554	30201	2070	1502	25418	28793	2060	1384	23185	26053	2040
1	-50	1753	30186	34822	2070	1576	26708	30439	2030	1517	25575	29030	2020	1399	23347	26287	2000
6	-40	1788	30472	35316	1980	1611	27025	30943	1950	1552	25901	29537	1940	1434	23692	26798	1920
0	-30	1822	32473	37807	1910	1645	28839	33167	1880	1586	27656	31676	1870	1468	25330	28774	1850
0	-20	1856	38875	45527	1890	1679	34479	39876	1860	1620	33054	38068	1840	1502	30263	34560	1820
0	-10	1889	48887	57597	1900	1712	43216	50263	1850	1653	41390	47932	1840	1535	37832	43434	1810
	0	1922	67870	80638	1980	1744	59471	69695	1910	1685	56808	66271	1890	1567	51668	59728	1850
	10	1954	105717	127478	2190	1776	90592	107464	2080	1717	85963	101436	2040	1599	77241	90205	1980
	14	1966	137178	184441	2390	1789	114968	137414	2230	1730	108423	128798	2180	1612	96362	113136	2090
	17													1622	118905	162509	2230
1	-54	1726	28562	32765	2090	1549	25245	28620	2060	1489	24163	27286	2050	1371	22035	24686	2030
1	-50	1738	28695	32987	2050	1561	25386	28839	2020	1502	24307	27504	2010	1384	22184	24903	1990
4	-40	1774	28957	33443	1970	1597	25679	29306	1940	1538	24610	27973	1930	1420	22506	25377	1910
0	-30	1809	30786	35713	1900	1631	27340	31336	1870	1572	26218	29928	1860	1454	24009	27185	1840
0	-20	1842	36590	42688	1870	1665	32465	37411	1840	1606	31125	35719	1830	1488	28497	32434	1810
0	-10	1875	45499	53385	1870	1698	40260	46644	1830	1639	38574	44502	1820	1521	35268	40344	1790
	0	1907	61808	73075	1930	1730	54301	63350	1870	1671	51909	60291	1850	1553	47277	54427	1820
	10	1939	91960	110024	2090	1761	79463	93647	1990	1702	75585	88637	1960	1584	68210	79213	1910
	17	1960	141299	222029	2390	1783	118124	140687	2230	1724	111320	131774	2180	1606	98811	115609	2090

525AFM-09-01

Figure 4-28 (Sheet 25)

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
12,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1702	25845	29363	2060	1525	22841	25661	2030	1466	21859	24467	2020	1348	19925	22134	2010
	-50	1716	25961	29559	2030	1539	22965	25854	2000	1480	21986	24659	1990	1362	20056	22326	1970
	-40	1749	26192	29974	1940	1572	23223	26274	1910	1513	22252	25080	1900	1395	20339	22749	1890
	-30	1781	27747	31927	1870	1604	24637	28021	1850	1545	23621	26761	1840	1426	21620	24303	1820
	-20	1814	32562	37664	1840	1637	28900	33035	1810	1578	27709	31547	1800	1460	25366	28650	1780
	-10	1846	39713	46174	1830	1669	35186	40418	1790	1610	33720	38577	1780	1492	30848	35005	1750
	0	1878	52073	60937	1850	1701	45918	53062	1810	1642	43939	50563	1790	1524	40093	45750	1760
	10	1909	72533	85615	1940	1732	63335	73751	1870	1673	60426	70048	1850	1555	54828	62994	1810
	20	1940	120038	143314	2220	1763	101969	119737	2090	1704	96509	112732	2050	1586	86302	99795	1970
	21	1942	128757	164022	2270	1765	108743	127886	2130	1706	102754	120184	2090	1588	91623	106039	2010
1 0 5	-54	1679	22845	25515	2030	1501	20189	22325	2010	1442	19319	21292	2000	1324	17602	19271	1980
	-50	1691	22941	25681	2000	1514	20293	22488	1970	1455	19425	21455	1960	1337	17714	19432	1950
	-40	1723	23139	26050	1910	1545	20513	22856	1890	1486	19653	21822	1880	1368	17955	19798	1870
	-30	1751	24422	27692	1840	1574	21680	24321	1820	1515	20782	23230	1810	1396	19011	21097	1800
	-20	1778	28338	32410	1800	1600	25148	28441	1780	1541	24106	27160	1770	1423	22055	24663	1750
	-10	1810	33886	38935	1780	1632	30046	34131	1750	1573	28797	32587	1740	1455	26343	29582	1720
	0	1841	42959	49631	1780	1664	37979	43664	1750	1604	36370	41364	1730	1486	33224	37489	1710
	10	1871	56651	65876	1820	1694	49795	57196	1770	1635	47603	54454	1760	1517	43348	49181	1720
	20	1901	82982	97012	1950	1724	72025	83120	1870	1665	68590	78818	1850	1547	62015	70658	1800
	26	1918	124816	147151	2210	1741	105691	122894	2070	1682	99926	115431	2030	1564	89162	102034	1950
1 0 0	-54	1664	20213	22039	2010	1487	17871	19329	1990	1428	17103	18448	1960	1310	15584	16719	1960
	-50	1677	20291	22167	1970	1500	17957	19457	1950	1441	17191	18576	1940	1323	15677	16847	1930
	-40	1708	20449	22451	1890	1531	18137	19745	1870	1471	17378	18865	1860	1353	15878	17139	1850
	-30	1729	21523	23889	1820	1552	19109	21015	1800	1493	18317	20082	1790	1375	16751	18252	1780
	-20	1745	24764	27928	1770	1568	21969	24521	1750	1508	21054	23419	1740	1390	19250	21263	1730
	-10	1772	29187	33155	1740	1594	25879	29082	1720	1535	24800	27769	1710	1417	22675	25206	1690
	0	1802	36055	41149	1730	1625	31914	36024	1700	1566	30569	34379	1690	1448	27931	31181	1670
	10	1832	45752	52495	1740	1655	40359	45783	1700	1596	38620	43644	1690	1478	35226	39506	1660
	20	1861	62452	71931	1800	1684	54707	62281	1750	1625	52239	59241	1730	1507	47463	53409	1690
	29	1887	114024	132546	2110	1710	97026	111316	1990	1651	91840	104903	1950	1533	82092	92961	1890
9 5 0	-54	1650	17953	19103	1990	1473	15876	16793	1970	1414	15194	16038	1960	1295	13843	14554	1950
	-50	1660	18016	19201	1950	1483	15947	16892	1930	1424	15267	16139	1920	1306	13920	14656	1910
	-40	1693	18138	19414	1870	1516	16096	17118	1850	1456	15422	16367	1840	1338	14089	14888	1830
	-30	1714	19016	20568	1800	1537	16888	18136	1780	1478	16189	17343	1770	1360	14805	15784	1760
	-20	1721	21674	23948	1750	1544	19229	21058	1730	1485	18427	20119	1720	1366	16842	18279	1710
	-10	1735	25290	28373	1710	1558	22414	24896	1690	1499	21473	23771	1680	1381	19618	21571	1660
	0	1762	30638	34577	1690	1585	27119	30291	1660	1526	25975	28912	1650	1408	23724	26223	1640
	10	1792	37773	42822	1680	1615	33376	37438	1650	1556	31951	35712	1640	1437	29158	32359	1620
	20	1820	49180	55931	1710	1643	43279	48693	1660	1584	41381	46391	1650	1466	37682	41940	1620
	29	1846	77982	89158	1860	1668	67640	76455	1780	1609	64384	72501	1760	1491	58139	64975	1720
9 0 0	-54	1635	15989	16608	1970	1457	14140	14631	1950	1398	13533	13988	1940	1280	12324	12704	1930
	-50	1647	16041	16683	1930	1470	14199	14709	1910	1411	13592	14062	1910	1293	12390	12785	1900
	-40	1677	16145	16849	1850	1500	14322	14885	1830	1441	13722	14241	1830	1323	12533	12971	1820
	-30	1698	16860	17774	1780	1521	14974	15706	1760	1462	14353	15030	1760	1344	13123	13696	1750
	-20	1704	19019	20483	1730	1527	16878	18052	1710	1468	16174	17260	1700	1350	14782	15702	1690
	-10	1707	21963	24195	1680	1530	19462	21253	1660	1471	18641	20298	1660	1352	17021	18426	1640
	0	1721	26259	29347	1650	1543	23235	25714	1630	1484	22247	24540	1620	1366	20299	22244	1610
	10	1749	31672	35537	1640	1572	27997	31100	1610	1513	26800	29672	1600	1395	24448	26886	1580
	20	1777	39853	44841	1640	1600	35146	39148	1610	1541	33622	37324	1590	1423	30638	33782	1570
	29	1802	58111	65632	1720	1625	50821	56804	1670	1566	48493	54014	1650	1448	43976	48644	1620
8 5 0	-54	1618	14265	14771	1950	1441	12611	13012	1930	1382	12066	12435	1930	1264	10985	11294	1920
	-50	1631	14307	14833	1920	1454	12661	13078	1900	1395	12118	12502	1890	1277	11041	11364	1880
	-40	1660	14392	14972	1830	1483	12764	13226	1820	1424	12227	12654	1810	1306	11162	11522	1800
	-30	1681	14983	15745	1760	1504	13304	13914	1750	1445	12750	13314	1740	1326	11653	12129	1730
	-20	1686	16754	17994	1710	1509	14866	15861	1690	1449	14245	15164	1690	1331	13015	13792	1680
	-10	1687	19118	21018	1660	1510	16944	18467	1640	1451	16230	17638	1640	1333	14816	16008	1630
	0	1686	22590	25449	1630	1509	19978	22271	1610	1450	19122	21242	1600	1332	17433	19228	1590
	10	1705	26862	30576	1600	1527	23731	26711	1580	1468	22708	25464	1570	1350	20694	23030	1550
	20	1732	32939	37606	1590	1555	29065	32810	1560	1496	27804	31268	1550	1378	25328	28268	1530
	29	1756	45393	52006	1630	1579	39849	45133	1590	1520	38061	42943	1580	1402	34584	38718	1550

525AFM-06-01

Figure 4-28 (Sheet 26)

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
13,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1820	41750	49471	2200	1642	36843	43056	2150	1583	35260	41016	2140	1465	32167	37073	2110
	-50	1835	41706	49550	2160	1657	36843	43166	2110	1598	35274	41135	2100	1480	32207	37210	2070
	-40	1871	42745	51046	2080	1694	37840	44558	2030	1635	36256	42494	2020	1517	33163	38506	1990
	-30	1907	46335	55518	2020	1730	41053	48509	1970	1671	39349	46281	1960	1553	36026	41979	1930
	-20	1943	60302	72796	2060	1766	53117	63205	2000	1707	50830	60193	1980	1588	46400	54420	1940
1 2 0 0 0	-10	1977	85220	104137	2180	1800	74123	89133	2090	1741	70657	84517	2060	1623	64039	75805	2010
	0	2005	137688	175886	2520	1828	115571	141135	2350	1769	109063	132306	2300	1651	97077	116281	2200
	1	2010	169547	229795	2740	1833	134709	171676	2480	1774	126350	157782	2410	1656	11314	134140	2300
	3	2014	202320	284897	2980	1837	147750	195160	2570	1778	136919	176937	2480	1660	119779	147912	2350
	6	1809	39615	46716	2180	1631	34979	40694	2130	1572	33479	38774	2120	1454	30554	35067	2090
1 2 0 0 0	-50	1823	39575	46789	2140	1646	34980	40795	2100	1587	33494	38885	2080	1469	30587	35189	2050
	-40	1860	40519	48148	2060	1683	35890	42066	2010	1624	34393	40128	2000	1506	31465	36376	1970
	-30	1896	43777	52194	2000	1719	38814	45651	1950	1659	37211	43567	1940	1541	34078	39537	1910
	-20	1931	56209	67489	2020	1754	49606	58730	1970	1695	47493	55964	1950	1577	43389	50651	1920
	-10	1965	77524	94078	2110	1788	67706	80914	2040	1729	64618	76833	2010	1611	58693	69091	1960
1 2 0 0 0	0	2000	136334	172959	2490	1823	114506	139284	2320	1763	108072	130604	2270	1645	98212	114832	2180
	1	2002	147321	193005	2560	1825	122588	150765	2370	1766	115417	139935	2320	1648	102322	122438	2220
	3	2008	195458	272973	2910	1831	143643	189690	2520	1772	134263	172353	2440	1653	117617	144131	2320
	6	1796	37366	43847	2160	1619	33009	38225	2120	1560	31598	36430	2100	1441	28835	32952	2080
	-50	1810	37329	43912	2120	1633	33011	38318	2080	1574	31612	36532	2060	1456	28873	33070	2040
1 2 0 0 0	-40	1847	38182	45137	2030	1669	33837	39469	1990	1610	32430	37658	1980	1492	29673	34150	1960
	-30	1882	41109	48763	1970	1705	36472	42891	1930	1646	34971	40752	1920	1528	32034	36998	1900
	-20	1917	52075	62180	1990	1740	46027	54211	1940	1681	44086	51687	1920	1563	40306	46825	1890
	-10	1951	70134	84531	2080	1774	61475	73016	1990	1715	58734	69423	1960	1597	53453	62571	1920
	0	1985	114693	140576	2320	1808	97876	117825	2190	1749	92779	111049	2150	1630	83220	98500	2080
1 2 0 0 0	3	1995	140605	180702	2490	1818	117605	142786	2320	1759	110872	133722	2270	1641	98511	117325	2170
	6	2004	226440	331063	3110	1827	153871	206621	2570	1768	139652	184800	2460	1650	121808	151843	2320
	-54	1783	35299	41263	2140	1606	31194	35994	2100	1547	29863	34308	2090	1429	27253	31039	2060
	-50	1797	35265	41323	2100	1620	31196	36080	2060	1561	29877	34403	2050	1443	27288	31149	2020
	-40	1833	36036	42432	2010	1656	31948	37127	1980	1597	30621	35429	1970	1479	28020	32135	1940
1 2 0 0 0	-30	1869	38676	45697	1950	1691	34330	40035	1920	1632	32921	38224	1900	1514	30161	34713	1880
	-20	1903	48408	57554	1960	1726	42838	50252	1910	1667	41044	47932	1900	1549	37555	43464	1870
	-10	1937	63890	76606	2010	1760	56161	66389	1940	1701	53701	63183	1920	1583	48946	57048	1890
	0	1970	99056	120332	2200	1793	85386	102047	2100	1734	81171	96497	2060	1616	73190	86104	2000
	3	1990	145413	190959	2500	1813	121054	147587	2320	1754	113980	137367	2270	1636	101047	120224	2170
1 2 0 0 0	6	1996	199042	281086	2880	1819	142357	190232	2460	1760	133056	171912	2390	1642	116537	142281	2270
	-54	1770	33392	38847	2120	1593	29516	33905	2080	1534	28256	32321	2070	1415	25786	29245	2050
	-50	1784	33360	38901	2080	1607	29518	33984	2040	1548	28270	32408	2030	1430	25820	29348	2010
	-40	1820	34060	39907	2000	1643	30204	34936	1960	1584	28951	33343	1950	1466	26491	30248	1930
	-30	1855	36449	42852	1930	1678	32365	37566	1900	1619	31039	35873	1890	1501	28438	32585	1870
1 2 0 0 0	-20	1889	45130	53373	1930	1712	39974	46660	1890	1653	38311	44523	1870	1535	35060	40389	1850
	-10	1923	58534	69759	1960	1746	51567	60618	1910	1687	49341	57737	1890	1569	45024	52206	1850
	0	1956	87067	104882	2110	1779	75572	89663	2020	1720	71987	84985	1990	1602	65145	76151	1940
	8	1982	138697	177951	2430	1805	116064	140037	2270	1746	109425	131174	2220	1628	97236	115133	2120
	10	1987	179010	254577	2720	1810	134811	176076	2390	1751	126330	159424	2330	1633	111102	132300	2210
1 2 0 0 0	11	1817	151186	216084	2500	1757	136713	188199	2390	1639	119411	149751	2270	1639	119411	149751	2270
	-54	1757	31626	36620	2100	1579	27959	31974	2070	1520	26766	30483	2060	1402	24422	27584	2030
	-50	1771	31597	36669	2060	1594	27961	32047	2030	1535	26779	30564	2020	1417	24455	27680	2000
	-40	1806	32233	37582	1980	1629	28588	32915	1950	1570	27402	31417	1940	1452	25071	28504	1920
	-30	1841	34401	40246	1920	1664	30554	35300	1880	1605	29303	33713	1870	1487	26846	30628	1850
1 2 0 0 0	-20	1875	42181	49626	1910	1698	37390	43430	1870	1639	35840	41452	1850	1521	32809	37623	1830
	-10	1909	53881	63842	1930	1731	47551	55597	1870	1672	45522	52988	1860	1554	41576	47966	1830
	0	1941	77508	92680	2040	1764	67614	79695	1960	1705	64501	75666	1940	1587	58538	68024	1890
	10	1974	131865	165051	2370	1797	110918	133036	2210	1738	104713	124823	2170	1620	93245	109851	2080
	11	1977	141803	188974	2430	1799	118321	142331	2260	1740	111463	133212	2210	1622	98889	116736	2110
1 2 0 0 0	-54	1730	28459	32682	2070	1553	25157	28549	2040	1493	24081	27219	2030	1375	21963	24628	2010
	-50	1744	28434	32722	2030	1567	25161	28612	2000	1508	24094	27289	1990	1389	21994	24711	1970
	-40	1779	28964	33482	1950	1601	25688	29339	1920	1542	24620	28006	1910	1424	22517	25407	1890
	-30	1813	30782	35681	1890	1636	27326	31315	1860	1577	26206	29911	1850	1458	24003	27175	1830
	-20	1846	37084	43236	1860	1669	32903	37894	1830	1610	31546	36182	1820	1492	28885	32858	1790
1 2 0 0 0	-10	1879	46184	54179	1860	1702	40859	47329	1820	1643	39142	45148	1810	1525	35789	40933	1780
	0	1912	63113	74575	1930	1735	55424	64624	1870	1675	52992	61514	1850	1557	48239	55506	1810
	10	1943	95023	113725	209												

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
13,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 5 0 0	-54	1701	25006	28302	2040	1523	22103	24745	2010	1464	21154	23596	2000	1346	19279	21348	1980
	-50	1714	24984	28334	2000	1537	22107	24796	1970	1478	21166	23654	1970	1360	19312	21423	1950
	-40	1747	25426	28987	1920	1570	22547	25417	1890	1511	21606	24265	1860	1393	19750	22014	1870
	-30	1776	26908	30859	1850	1599	23894	27092	1830	1540	22910	25876	1820	1422	20969	23503	1800
	-20	1810	31874	36725	1820	1632	28293	32222	1790	1573	27126	30774	1780	1455	24833	27953	1760
	-10	1842	38719	44851	1800	1665	34313	39277	1770	1606	32885	37492	1760	1488	30086	34029	1740
	0	1874	50544	58900	1830	1696	44594	51323	1780	1637	42682	48921	1770	1519	38958	44287	1740
	10	1904	69854	82068	1910	1727	61070	70808	1840	1668	58280	67278	1820	1550	52919	60560	1780
	20	1935	110520	131552	2130	1757	94329	110509	2020	1698	89399	104200	1980	1580	80133	92475	1910
	22	1941	125860	150614	2230	1764	106279	124977	2090	1705	100420	117442	2050	1587	85531	103605	1970
1 0 0 0 0	-54	1681	22002	24414	2010	1504	19453	21382	1990	1444	18618	20399	1980	1326	16969	18475	1960
	-50	1693	21984	24436	1970	1516	19457	21422	1950	1457	18629	20445	1940	1339	16994	18531	1930
	-40	1723	22357	25012	1890	1546	19826	21963	1870	1487	18997	20975	1860	1369	17360	19040	1850
	-30	1747	23585	26627	1820	1570	20940	23396	1800	1511	20074	22350	1790	1393	18359	20298	1780
	-20	1772	27616	31489	1780	1594	24508	27637	1760	1535	23492	26394	1750	1417	21491	23968	1730
	-10	1803	32895	37686	1760	1626	29170	33045	1730	1567	27958	31552	1720	1449	25576	28646	1700
	0	1834	41524	47808	1760	1657	36725	41798	1720	1598	35172	39877	1710	1480	32135	36152	1690
	10	1865	54370	62998	1790	1688	47833	54759	1740	1629	45739	52151	1730	1510	41670	47131	1700
	20	1894	77013	89868	1890	1717	67004	77180	1820	1658	63855	73238	1800	1540	57813	65745	1760
	26	1912	121677	142703	2170	1735	103251	119379	2040	1676	97668	112406	2000	1558	87216	99474	1930
27					1737	116221	134430	2120	1678	109631	126216	2080	1560	97403	111119	1990	
9 5 0 0	-54	1665	19411	21005	1980	1488	17169	18442	1960	1429	16433	17607	1960	1311	14978	15968	1940
	-50	1680	19396	21018	1950	1503	17173	18470	1930	1444	16444	17641	1920	1326	15001	16012	1910
	-40	1707	19894	21466	1870	1530	17473	18896	1850	1471	16744	18059	1840	1353	15301	16416	1830
	-30	1729	20694	22795	1800	1552	18379	20072	1780	1493	17620	19187	1770	1375	16118	17450	1760
	-20	1739	24014	26967	1750	1562	21304	23685	1730	1503	20417	22622	1720	1385	18666	20543	1710
	-10	1764	28217	31965	1720	1586	25018	28041	1700	1527	23973	26775	1690	1409	21916	24303	1670
	0	1794	34710	39491	1710	1617	30730	34587	1680	1558	29436	33011	1670	1440	26897	29944	1650
	10	1824	43766	50053	1710	1647	38628	43686	1680	1588	36970	41655	1660	1469	33728	37719	1640
	20	1853	58124	66806	1760	1676	50993	57932	1710	1617	48716	55131	1690	1499	44298	49746	1660
	27	1873	86872	102351	1930	1696	76795	87403	1850	1637	73023	82785	1820	1519	65820	74039	1770
9 0 0 0	-54	1649	17190	18127	1960	1472	15206	15952	1940	1413	14554	15242	1940	1295	13263	13841	1930
	-50	1662	17176	18131	1930	1485	15210	15971	1910	1426	14563	15265	1900	1308	13283	13874	1890
	-40	1690	17418	18481	1850	1513	15455	16306	1830	1454	14810	15596	1820	1336	13532	14196	1810
	-30	1712	18229	19541	1780	1535	16193	17248	1760	1476	15524	16499	1750	1358	14199	15026	1740
	-20	1717	20914	22936	1730	1539	18557	20182	1710	1480	17783	19287	1700	1362	16254	17531	1690
	-10	1727	24332	27168	1690	1550	21564	23845	1670	1491	20658	22769	1660	1373	18870	20663	1650
	0	1752	29380	33048	1670	1574	26011	28962	1640	1515	24911	27644	1630	1397	22748	25071	1620
	10	1781	36022	40697	1660	1604	31836	35596	1630	1545	30477	33958	1620	1426	27812	30773	1600
	20	1809	45825	51977	1670	1632	40362	45295	1630	1573	38602	43165	1620	1455	35165	39042	1590
	27	1829	64242	72964	1760	1652	56117	63059	1700	1593	53531	59939	1680	1475	48529	53952	1650
8 5 0 0	-54	1633	15261	16012	1950	1455	13498	14094	1930	1396	12917	13467	1920	1278	11766	12228	1910
	-50	1646	15249	16014	1910	1469	13501	14110	1890	1409	12925	13486	1890	1291	11784	12256	1880
	-40	1674	15447	16304	1830	1497	13704	14389	1810	1438	13130	13762	1810	1320	11992	12526	1800
	-30	1694	16109	17180	1760	1517	14309	15168	1740	1458	13716	14510	1740	1340	12541	13214	1730
	-20	1699	18282	19953	1710	1521	16223	17565	1690	1462	15547	16788	1680	1344	14207	15259	1670
	-10	1701	21024	23479	1660	1524	18631	20603	1640	1464	17846	19670	1640	1346	16294	17842	1630
	0	1709	25067	28496	1630	1532	22177	24932	1610	1473	21238	23787	1600	1355	19368	21531	1590
	10	1735	30104	34439	1610	1558	26608	30092	1590	1499	25468	28692	1580	1381	23226	25965	1560
	20	1763	37127	42837	1610	1586	32753	37178	1580	1527	31335	35430	1570	1409	28555	32034	1550
	27	1782	49226	56603	1650	1605	43212	49115	1610	1546	41278	46735	1600	1428	37508	42137	1570

Figure 4-28 (Sheet 28)

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF**

**FLAPS - 0°
14,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1852	48229	57837	2240	1675	42470	50181	2190	1616	40623	47762	2170	1498	37028	43111	2140
	-50	1868	48340	58130	2200	1690	42610	50483	2150	1631	40771	48066	2130	1513	37193	43417	2100
	-40	1905	49873	60206	2120	1728	44047	52394	2070	1669	42179	49926	2050	1551	38545	45179	2020
	-30	1942	55429	67127	2080	1765	48957	58423	2030	1706	46886	55678	2010	1588	42861	50405	1970
	-20	1978	75210	91961	2160	1801	65823	79237	2090	1742	62864	75286	2060	1624	57180	67779	2010
	-10	2013	118982	148451	2430	1836	101310	123919	2290	1777	95989	116678	2240	1659	86059	103344	2170
1 2 2 0 0	-7	2024	148036	196642	2630	1847	123241	153464	2430	1788	116053	142194	2380	1669	102963	124421	2270
	-5	2029	200436	284920	3010	1852	147005	195454	2600	1793	136787	177432	2520	1675	119761	148589	2390
	-54	1841	45486	54309	2220	1664	40095	47184	2170	1605	38361	44927	2150	1487	34983	40578	2120
	-50	1856	45585	54575	2180	1679	40221	47459	2130	1620	38496	45204	2110	1502	35134	40860	2080
	-40	1893	46960	56444	2100	1716	41524	49194	2050	1657	39775	46896	2030	1539	36365	42464	2000
	-30	1930	51939	62627	2050	1753	45934	54594	2000	1694	44006	52054	1980	1576	40256	47164	1950
1 2 0 0	-20	1966	69136	84093	2110	1789	60685	72708	2040	1729	58007	69153	2020	1611	52845	62372	1980
	-10	2000	104389	129013	2310	1823	89777	108986	2190	1764	85300	102956	2160	1646	76858	91723	2090
	-5	2018	147019	193745	2600	1841	122470	151660	2410	1782	115354	140884	2350	1664	102358	123330	2250
	-3	2023	197292	277134	2970	1846	145948	182816	2570	1787	136098	175367	2490	1669	119202	147142	2360
	0	2020	222552	324546	3130	1843	155541	206898	2620	1784	141884	185930	2510	1666	123516	154071	2370
	-54	1828	42635	50622	2190	1651	37616	44039	2140	1592	35998	41948	2130	1474	32840	37911	2100
1 2 0 0	-50	1843	42720	50858	2150	1666	37728	44286	2110	1607	36119	42198	2090	1489	32977	38166	2060
	-40	1880	43950	52530	2070	1703	38898	45844	2020	1644	37269	43717	2010	1526	34076	39600	1980
	-30	1916	48358	57982	2020	1739	42818	50627	1970	1680	41035	48293	1960	1562	37559	43791	1930
	-20	1952	63159	76334	2060	1775	55587	66211	2000	1716	53176	63032	1980	1597	48512	56949	1940
	-10	1987	91505	112022	2210	1810	79320	95520	2110	1751	75537	90477	2080	1633	68339	80990	2030
	0	2011	142231	183816	2540	1834	118954	145479	2360	1775	112151	136227	2310	1657	99671	119509	2210
1 1 8 0 0	2	2020	195206	272706	2900	1834	144022	189279	2510	1775	134599	172098	2440	1657	117888	144169	2310
	-54	1802	37674	44308	2140	1624	33282	38620	2100	1565	31860	36805	2090	1447	29077	33291	2060
	-50	1816	37740	44499	2110	1639	33372	38822	2060	1580	31959	37011	2050	1462	29191	33502	2030
	-40	1853	38733	45852	2020	1676	34326	40092	1980	1617	32899	38253	1970	1498	30106	34691	1950
	-30	1888	42241	50164	1970	1711	37474	43911	1930	1652	35922	41905	1920	1534	32902	38040	1890
	-20	1924	53489	63959	1980	1746	47255	55730	1930	1687	45257	53127	1920	1569	41368	48117	1880
1 1 6 0 0	-10	1958	72996	88111	2060	1781	63903	76002	1990	1722	61031	72231	1970	1603	55506	65054	1920
	0	1991	121186	149124	2350	1814	102938	124304	2210	1755	97452	116981	2170	1637	87223	103500	2090
	2	1998	139951	179154	2480	1821	117120	142320	2310	1762	110431	133306	2250	1644	98147	116992	2160
	5	2008	220654	320972	3050	1831	152985	203170	2550	1772	139819	182545	2450	1653	121927	150971	2320
	-54	1788	35505	41544	2120	1611	31378	36238	2080	1552	30040	34542	2070	1434	27419	31252	2050
	-50	1803	35584	41716	2090	1626	31461	36422	2050	1567	30131	34729	2030	1448	27523	31445	2010
1 1 4 0 0	-40	1839	36461	42938	2000	1662	32327	37572	1970	1603	30986	35856	1950	1485	28357	32526	1930
	-30	1874	39611	46797	1950	1697	35153	40992	1910	1638	33709	39136	1900	1520	30882	35540	1870
	-20	1909	49521	58881	1950	1732	43809	51394	1900	1673	41972	49017	1890	1555	38391	44434	1860
	-10	1943	66071	79220	2010	1766	58027	68593	1940	1707	55472	65264	1920	1589	50537	58901	1880
	0	1976	103255	125616	2220	1799	88771	106209	2110	1740	84326	100348	2070	1622	75932	89406	2010
	5	1993	144461	187167	2480	1816	120345	146086	2300	1757	113334	136536	2250	1639	100509	119547	2160
1 1 0 0	-54	1761	31672	36730	2090	1584	28003	32071	2050	1525	26810	30576	2040	1407	24466	27671	2020
	-50	1775	31719	36871	2050	1598	28072	32224	2020	1539	26886	30732	2000	1421	24556	27833	1980
	-40	1811	32458	37878	1970	1634	28790	33177	1930	1575	27597	31668	1920	1456	25254	28735	1900
	-30	1846	35024	41004	1910	1668	31105	35961	1870	1609	29831	34344	1860	1491	27339	31209	1840
	-20	1880	42848	50451	1900	1703	37977	44146	1860	1644	36403	42134	1840	1526	33324	38240	1820
	-10	1913	55148	65389	1920	1736	48650	56919	1870	1677	46569	54242	1850	1559	42524	49091	1820
1 1 0 0	0	1946	79407	95089	2030	1769	69204	81673	1960	1710	66000	77518	1930	1592	58858	69637	1890
	10	1979	138348	179957	2400	1801	115748	139238	2230	1742	109117	130425	2180	1624	96927	114454	2090
	11	1981	149557	215979	2470	1804	123920	153151	2280	1745	116528	139717	2230	1627	103068	122000	2130

525AFM-06-01

Figure 4-28 (Sheet 29)

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS OFF

FLAPS - 0°
14,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1000	-54	1726	27636	31679	2050	1549	24433	27679	2020	1490	23388	26391	2010	1372	21331	23880	1990
	-50	1742	27673	31793	2010	1565	24489	27803	1980	1506	23458	26526	1970	1387	21407	24015	1950
	-40	1774	28260	32591	1930	1597	25066	28566	1900	1538	24024	27269	1890	1420	21973	24742	1870
	-30	1809	30281	35032	1870	1632	26898	30750	1840	1573	25795	29372	1830	1454	23625	26687	1810
	-20	1842	36252	42152	1840	1665	32170	36956	1810	1606	30845	35290	1800	1488	28244	32053	1780
	-10	1875	45122	52774	1840	1698	39933	46127	1800	1639	38259	44009	1790	1521	34988	39912	1760
	0	1907	60860	71697	1890	1730	53497	62203	1840	1671	51148	59214	1820	1553	46601	53481	1780
	10	1938	90363	107747	2040	1761	78150	91807	1950	1702	74356	86925	1930	1584	67135	77732	1870
	18					1786	121526	148247	2210	1727	114319	135666	2160	1609	101158	118592	2060
	1000	-54	1699	24170	27241	2020	1522	21362	23822	1990	1463	20453	22727	1980	1345	18647	20573
-50		1712	24197	27326	1980	1535	21414	23926	1950	1476	20504	22827	1940	1357	18709	20680	1930
-40		1744	24687	28020	1900	1566	21896	24582	1870	1507	20982	23471	1860	1389	19181	21300	1850
-30		1771	26351	30113	1830	1594	23400	26442	1810	1535	22435	25257	1800	1417	20533	22942	1780
-20		1804	31018	35632	1800	1627	27534	31270	1770	1568	26399	29867	1760	1449	24166	27131	1740
-10		1836	37643	43462	1780	1659	33367	38077	1750	1600	31980	36351	1740	1482	29260	33000	1720
0		1868	48568	56402	1800	1690	42880	49199	1760	1631	41049	46909	1740	1513	37480	42486	1720
10		1898	66419	77753	1870	1721	58151	67200	1810	1662	55528	63894	1790	1544	50463	57572	1750
20		1929	102209	121204	2060	1752	87638	102356	1950	1693	83166	96656	1920	1574	74722	86007	1860
23						1760	113085	132290	2110	1701	106720	124178	2070	1583	94931	109334	1980
950	-54	1681	21163	23268	1990	1504	18721	20405	1960	1445	17921	19475	1960	1327	16340	17653	1940
	-50	1695	21184	23332	1950	1517	18758	20479	1930	1458	17963	19553	1920	1340	16392	17738	1910
	-40	1723	21597	23951	1870	1546	19161	21054	1850	1487	18362	20115	1840	1368	16784	18272	1830
	-30	1742	22983	25805	1800	1565	20406	22682	1780	1506	19561	21670	1770	1388	17893	19689	1760
	-20	1764	26758	30393	1760	1587	23744	26680	1740	1528	22759	25480	1730	1410	20817	23138	1710
	-10	1796	31835	36321	1740	1618	28231	31858	1710	1559	27058	30421	1700	1441	24751	27623	1680
	0	1827	39762	45590	1730	1649	35181	39885	1700	1590	33698	38060	1690	1472	30793	34517	1660
	10	1857	51617	59544	1760	1680	45455	51823	1710	1621	43478	49374	1700	1502	39629	44652	1670
	20	1886	71692	83329	1840	1709	62517	71752	1780	1650	59619	68141	1750	1532	54043	61256	1720
	25	1901	101992	118385	2020	1723	87656	100466	1920	1664	83223	94992	1890	1546	74816	84699	1830
900	-54	1665	18615	19932	1960	1488	16472	17523	1940	1429	15769	16738	1940	1311	14376	15193	1920
	-50	1678	18631	19976	1930	1501	16503	17577	1910	1442	15804	16795	1900	1324	14421	15258	1890
	-40	1706	18962	20460	1850	1529	16828	18030	1830	1470	16127	17239	1820	1352	14740	15682	1810
	-30	1725	20069	21923	1780	1548	17825	19318	1760	1489	17089	18470	1750	1370	15632	16806	1740
	-20	1731	23155	25853	1730	1554	20540	22713	1710	1495	19684	21695	1710	1377	17992	19703	1690
	-10	1753	27192	30671	1700	1576	24105	26909	1680	1517	23097	25694	1670	1399	21115	23327	1650
	0	1783	33130	37528	1680	1606	29336	32881	1650	1547	28101	31386	1640	1429	25675	28474	1630
	10	1813	41471	47212	1680	1636	36622	41240	1650	1577	35054	39331	1640	1459	31987	35629	1610
	20	1842	54228	62072	1720	1665	47634	53910	1670	1606	45522	51326	1650	1488	41419	46348	1630
	25	1856	71090	81259	1810	1679	61994	70081	1740	1620	59112	66577	1720	1502	53556	59876	1680
850	-54	1648	16432	17469	1940	1471	14540	15366	1920	1411	13918	14679	1920	1293	12685	13326	1910
	-50	1661	16444	17503	1910	1484	14566	15411	1890	1425	13948	14727	1880	1307	12723	13380	1870
	-40	1688	16711	17900	1830	1511	14831	15783	1810	1452	14212	15092	1800	1334	12986	13731	1790
	-30	1706	17605	19094	1760	1529	15638	16835	1740	1470	14991	16098	1740	1352	13710	14649	1720
	-20	1711	20065	22264	1710	1533	17804	19573	1690	1474	17062	18699	1680	1356	15593	16984	1670
	-10	1716	23330	26443	1670	1539	20671	23176	1650	1480	19800	22119	1640	1362	18081	20052	1630
	0	1738	27949	31988	1640	1561	24738	27990	1620	1502	23690	26701	1610	1383	21625	24187	1590
	10	1767	34052	39165	1630	1589	30097	34213	1600	1530	28812	32623	1590	1412	26289	29533	1570
	20	1795	42758	49425	1640	1618	37682	43036	1600	1559	36042	40998	1590	1441	32839	37054	1560
	25	1809	53364	61808	1680	1632	46834	53437	1640	1573	44738	50846	1620	1455	40663	45851	1590

Figure 4-28 (Sheet 30)

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
SEA LEVEL

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1465	74175	80914	2760	1288	62433	67534	2640	1229	58743	63361	2600	1111	51672	55413	2520
	-35	1520	29438	32440	2100	1343	25579	27923	2070	1283	24323	26468	2050	1165	21853	23630	2030
	-30	1533	29460	32526	2060	1356	25631	28031	2020	1297	24384	26582	2010	1179	21934	23757	1990
	-25	1547	29415	32536	2020	1370	25625	28073	1980	1310	24391	26634	1970	1192	21965	23829	1950
	-20	1560	29363	32535	1980	1383	25612	28105	1940	1324	24391	26677	1930	1206	21989	23893	1910
	-15	1574	29286	32506	1940	1397	25577	28113	1900	1338	24372	26700	1890	1220	21993	23935	1870
	-10	1587	29197	32464	1900	1410	25532	28109	1870	1351	24337	26705	1860	1233	21987	23967	1840
	-5	1601	29110	32422	1860	1424	25486	28105	1830	1365	24305	26713	1820	1246	21981	23998	1800
	0	1614	29811	33268	1830	1437	26118	28856	1800	1378	24915	27434	1790	1260	22548	24660	1770
	5	1627	30546	34156	1810	1450	26779	29642	1780	1391	25552	28188	1770	1273	23140	25353	1750
10	1641	37855	42405	1830	1463	33085	36685	1800	1404	31540	34852	1780	1286	28514	31292	1760	
1 2 0 0 0	-54	1456	68710	74833	2700	1279	57956	62593	2590	1220	54564	58762	2550	1102	48046	51447	2480
	-35	1510	28299	31120	2090	1333	24584	26784	2060	1273	23373	25386	2040	1155	20993	22658	2020
	-30	1524	28318	31199	2050	1346	24632	26885	2010	1287	23431	25493	2000	1169	21069	22778	1980
	-25	1537	28276	31208	2010	1360	24627	26924	1970	1301	23438	25542	1960	1183	21099	22846	1940
	-20	1551	28226	31206	1970	1374	24615	26955	1930	1315	23438	25583	1920	1197	21123	22907	1900
	-15	1564	28153	31178	1930	1387	24583	26982	1900	1328	23418	25603	1880	1210	21128	22948	1860
	-10	1578	28069	31137	1890	1401	24540	26959	1860	1342	23389	25611	1850	1224	21124	22979	1830
	-5	1591	27986	31098	1850	1414	24497	26955	1820	1355	23359	25619	1810	1237	21118	23009	1790
	0	1604	28642	31888	1820	1427	25089	27657	1790	1368	23931	26293	1780	1250	21651	23630	1770
	5	1617	29330	32716	1800	1440	25709	28392	1770	1381	24529	26998	1760	1263	22213	24284	1740
10	1631	36115	40357	1820	1454	31569	34922	1780	1395	30099	33183	1770	1276	27204	29789	1750	
1 2 0 0 0	-54	1447	63223	68740	2650	1270	53435	57615	2540	1211	50335	54121	2510	1092	44364	47430	2450
	-35	1499	27066	29699	2080	1322	23505	25556	2050	1263	22344	24219	2030	1145	20059	21609	2010
	-30	1513	27082	29771	2040	1336	23553	25652	2000	1277	22398	24319	1990	1159	20131	21721	1970
	-25	1527	27042	29778	2000	1349	23545	25686	1960	1290	22410	24370	1950	1172	20161	21786	1930
	-20	1540	26995	29776	1960	1363	23535	25715	1920	1304	22406	24404	1910	1186	20184	21844	1890
	-15	1553	26926	29749	1920	1376	23504	25723	1890	1317	22388	24423	1880	1199	20190	21884	1860
	-10	1567	26846	29711	1880	1390	23467	25723	1850	1331	22360	24431	1840	1212	20186	21913	1820
	-5	1580	26769	29673	1840	1403	23424	25716	1810	1344	22333	24438	1800	1226	20182	21942	1790
	0	1593	27378	30405	1810	1416	23976	26388	1790	1357	22865	25065	1780	1239	20679	22519	1760
	5	1606	28016	31171	1790	1429	24551	27049	1760	1370	23421	25718	1750	1252	21196	23121	1730
10	1619	34261	38187	1810	1442	29950	33052	1770	1383	28550	31402	1760	1265	25804	28192	1740	
1 1 8 0 0	-54	1436	58403	63351	2590	1259	49442	53192	2500	1200	46595	49990	2470	1082	41097	43845	2410
	-35	1488	25899	28338	2070	1311	22484	24381	2040	1252	21369	23103	2020	1134	19175	20605	2000
	-30	1502	25913	28403	2030	1325	22525	24467	1990	1266	21420	23195	1980	1148	19242	20709	1960
	-25	1516	25875	28409	1980	1338	22521	24501	1950	1279	21427	23238	1940	1161	19271	20771	1920
	-20	1529	25830	28406	1940	1352	22512	24528	1910	1293	21428	23275	1900	1175	19294	20826	1880
	-15	1542	25765	28380	1910	1365	22483	24535	1880	1306	21412	23292	1870	1188	19300	20864	1850
	-10	1555	25691	28343	1870	1378	22446	24532	1840	1319	21386	23300	1830	1201	19298	20892	1810
	-5	1568	25617	28308	1830	1391	22409	24529	1810	1332	21361	23307	1800	1214	19295	20919	1780
	0	1581	26184	28986	1800	1404	22922	25134	1780	1345	21857	23889	1770	1227	19759	21457	1750
	5	1594	26776	29695	1780	1417	23458	25785	1750	1358	22375	24496	1740	1240	20241	22016	1720
10	1608	32536	36144	1790	1430	28441	31289	1760	1371	27110	29727	1750	1253	24497	26686	1730	
1 1 6 0 0	-54	1426	54136	58621	2550	1249	45891	49290	2460	1190	43263	46340	2430	1072	38178	40667	2380
	-35	1479	24773	27025	2060	1302	21501	23251	2030	1243	20432	22030	2020	1125	18327	19643	2000
	-30	1493	24786	27087	2020	1315	21540	23331	1980	1256	20480	22116	1970	1138	18391	19742	1950
	-25	1506	24750	27090	1970	1329	21537	23362	1940	1270	20487	22157	1930	1152	18419	19800	1910
	-20	1519	24707	27085	1930	1342	21527	23387	1910	1283	20488	22191	1900	1165	18441	19852	1880
	-15	1533	24645	27058	1900	1356	21500	23392	1870	1297	20467	22200	1860	1178	18447	19886	1840
	-10	1546	24573	27020	1860	1369	21465	23386	1830	1310	20449	22211	1820	1192	18446	19911	1810
	-5	1559	24503	26983	1820	1382	21429	23381	1800	1323	20424	22216	1790	1205	18443	19936	1770
	0	1571	25046	27649	1790	1393	21919	23971	1770	1334	20897	22782	1760	1216	18883	20456	1740
	5	1583	25605	28326	1770	1406	22424	24572	1740	1346	21385	23358	1730	1228	19337	20986	1710
10	1596	30926	34270	1780	1419	27031	29687	1750	1360	25763	28185	1740	1242	23273	25296	1720	
1 1 4 0 0	-54	1416	50332	54407	2510	1239	42712	45799	2430	1180	40276	43070	2400	1061	35555	37813	2350
	-35	1471	23696	25759	2050	1294	20566	22167	2020	1234	19537	20998	2010	1116	17518	18720	1990
	-30	1484	23707	25814	2000	1307	20598	22236	1980	1248	19582	21079	1970	1130	17578	18812	1950
	-25	1497	23679	25823	1960	1320	20595	22265	1940	1261	19589	21116	1930	1143	17605	18867	1910
	-20	1511	23632	25810	1920	1334	20586	22288	1900	1275	19591	21147	1890	1156	17627	18916	1870
	-15	1524	23573	25783	1890	1347	20561	22292	1860	1288	19576	21161	1850	1170	17634	18948	1830
	-10	1537	23505	25747	1850	1360	20528	22286	1820	1301	19554	21166	1810	1183	17633	18972	1800
	-5	1550	23439	25711	1810	1373	20495	22281	1790	1314	19532	21170	1780	1196	17632	18995	1760
	0	1561	23944	26328	1790	1384	20951	22828	1760	1325	19972	21695	1750	1207			

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
SEA LEVEL

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1395	43842	47685	2440	1218	37258	40171	2370	1159	35145	37781	2350	1040	31033	33163	2300
	-35	1455	21689	23643	2030	1278	18814	20328	2000	1219	17872	19254	1990	1101	16015	17150	1970
	-30	1468	21698	23694	1990	1291	18846	20396	1960	1232	17912	19327	1950	1114	16070	17235	1930
	-25	1482	21666	23696	1950	1305	18843	20423	1920	1246	17919	19363	1910	1127	16095	17286	1890
	-20	1496	21630	23692	1910	1319	18836	20445	1880	1260	17919	19391	1870	1141	16116	17332	1860
	-15	1508	21577	23668	1870	1331	18814	20449	1840	1272	17909	19408	1840	1154	16123	17363	1820
	-10	1521	21515	23634	1830	1344	18784	20444	1810	1285	17889	19410	1800	1167	16123	17385	1780
	-5	1534	21455	23600	1800	1357	18755	20439	1770	1298	17870	19414	1770	1180	16123	17407	1750
	0	1543	21910	24187	1770	1366	19163	20954	1740	1307	18263	19906	1740	1189	16487	17855	1720
	10	1554	22369	24761	1740	1377	19578	21462	1720	1318	18664	20393	1710	1200	16660	18302	1690
1 0 5	-54	1368	37323	40388	2370	1191	31744	34061	2310	1132	29944	32038	2290	1014	26430	28117	2260
	-35	1443	19402	20827	2010	1266	16833	17934	1980	1207	15991	16993	1970	1089	14326	15147	1960
	-30	1456	19408	20863	1960	1279	16860	17987	1940	1220	16024	17052	1930	1102	14373	15217	1920
	-25	1470	19380	20860	1920	1292	16858	18007	1900	1233	16031	17079	1890	1115	14396	15259	1880
	-20	1483	19349	20852	1890	1306	16853	18022	1860	1246	16034	17102	1860	1128	14416	15296	1840
	-15	1496	19303	20827	1850	1319	16834	18023	1830	1259	16024	17111	1820	1141	14423	15321	1800
	-10	1509	19251	20794	1810	1331	16810	18016	1790	1272	16009	17112	1780	1154	14425	15339	1770
	-5	1521	19199	20762	1780	1344	16785	18009	1760	1285	15993	17114	1750	1167	14427	15356	1740
	0	1531	19576	21241	1750	1354	17125	18431	1730	1295	16321	17518	1720	1176	14431	15375	1710
	10	1540	19969	21742	1720	1363	17479	18871	1700	1304	16662	17939	1690	1186	15047	16109	1680
1 0 0	-54	1340	32086	34545	2320	1163	27287	29139	2270	1104	25733	27404	2250	986	22690	24030	2220
	-35	1432	17403	18385	1990	1254	15098	15854	1960	1195	14341	15029	1960	1077	12844	13406	1940
	-30	1444	17406	18409	1950	1267	15121	15895	1920	1208	14370	15075	1920	1090	12885	13462	1900
	-25	1457	17382	18402	1910	1280	15120	15909	1880	1221	14376	15096	1880	1103	12906	13498	1860
	-20	1470	17354	18391	1870	1293	15115	15919	1850	1234	14380	15113	1840	1116	12924	13527	1830
	-15	1483	17315	18365	1830	1306	15100	15916	1810	1247	14372	15118	1800	1129	12933	13546	1790
	-10	1496	17267	18330	1790	1319	15080	15908	1780	1260	14360	15117	1770	1142	12936	13560	1760
	-5	1509	17225	18301	1760	1332	15059	15899	1740	1273	14347	15115	1740	1154	12938	13573	1720
	0	1518	17540	18695	1730	1341	15344	16247	1710	1282	14623	15449	1710	1164	13195	13879	1690
	10	1527	17867	19105	1700	1350	15640	16609	1680	1291	14908	15796	1680	1173	13460	14198	1670
9 5 0	-54	1311	27788	29754	2270	1134	23611	25085	2230	1075	22254	23581	2210	957	19591	20650	2180
	-35	1420	15638	16244	1970	1242	13565	14029	1950	1183	12883	13305	1940	1065	11533	11876	1930
	-30	1432	15640	16259	1930	1255	13584	14060	1910	1196	12908	13341	1900	1078	11569	11922	1890
	-25	1445	15618	16247	1890	1268	13583	14068	1870	1209	12911	13353	1860	1091	11588	11949	1850
	-20	1458	15594	16233	1850	1281	13580	14074	1830	1222	12917	13367	1830	1104	11605	11973	1810
	-15	1471	15560	16207	1810	1294	13567	14068	1800	1235	12912	13369	1790	1116	11613	11988	1780
	-10	1483	15521	16175	1780	1306	13550	14058	1760	1247	12902	13365	1760	1129	11617	11998	1750
	-5	1496	15482	16143	1750	1319	13533	14047	1730	1260	12892	13361	1720	1142	11621	12007	1710
	0	1505	15747	16468	1720	1328	13774	14335	1700	1269	13124	13637	1690	1151	11838	12261	1680
	10	1514	16022	16805	1690	1337	14023	14634	1670	1278	13365	13924	1670	1160	12062	12524	1650
9 0 0	-54	1284	24160	25706	2230	1107	20504	21658	2190	1048	19313	20350	2180	930	16971	17794	2160
	-35	1406	14069	14371	1950	1229	12199	12429	1940	1170	11583	11792	1930	1052	10363	10532	1920
	-30	1420	14069	14378	1910	1243	12215	12452	1900	1183	11605	11820	1890	1065	10395	10570	1880
	-25	1432	14050	14364	1870	1255	12215	12458	1860	1196	11611	11830	1850	1078	10413	10591	1840
	-20	1445	14029	14348	1840	1268	12213	12458	1820	1209	11614	11837	1810	1091	10428	10610	1800
	-15	1458	13999	14321	1800	1281	12202	12450	1780	1222	11610	11836	1780	1103	10437	10621	1770
	-10	1470	13965	14289	1770	1293	12188	12438	1750	1234	11602	11830	1750	1116	10441	10628	1730
	-5	1483	13932	14258	1730	1306	12173	12426	1720	1247	11594	11825	1710	1128	10445	10634	1700
	0	1492	14156	14527	1700	1314	12377	12665	1690	1255	11792	12054	1680	1137	10630	10846	1670
	10	1500	14387	14806	1670	1323	12588	12913	1660	1264	11995	12292	1650	1146	10821	11065	1640
8 5 0	-54	1263	21003	22280	2200	1086	17815	18764	2160	1027	16774	17625	2150	909	14722	15395	2130
	-35	1394	12662	12827	1940	1217	10973	11099	1920	1157	10416	10530	1920	1039	9311	9403	1910
	-30	1406	12662	12831	1900	1229	10987	11117	1880	1170	10435	10552	1880	1052	9340	9435	1870
	-25	1419	12645	12817	1860	1242	10988	11120	1850	1183	10440	10560	1840	1065	9356	9453	1830
	-20	1431	12626	12801	1820	1254	10985	11119	1810	1195	10444	10566	1800	1077	9369	9467	1790
	-15	1444	12600	12776	1790	1267	10976	11111	1770	1208	10441	10564	1770	1090	9378	9479	1760
	-10	1456	12570	12746	1750	1279	10964	11100	1740	1220	10434	10558	1730	1102	9383	9484	1730
	-5	1469	12541	12718	1720	1291	10952	11088	1710	1232	10428	10552	1700	1114	9388	9489	1690
	0	1477	12731	12944	1690	1300	11126	11291	1680	1241	10596	10747	1670	1123	9546	9669	1660
	10	1486	12927	13179	1660	1308	11305	11500	1650	1249	10770	10948	1640	1131	9708	9854	1630

Figure 4-29 (Sheet 2)

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
1,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1488	60614	66380	2600	1311	51593	56007	2500	1252	48725	52737	2470	1134	43183	46461	2420
	-35	1543	29621	32750	2090	1366	25803	28257	2050	1307	24559	26809	2040	1189	22113	23984	2020
	-30	1557	29654	32848	2050	1380	25864	28376	2010	1321	24629	26934	2000	1203	22201	24121	1980
	-25	1572	29625	32877	2010	1394	25872	28435	1970	1335	24649	27002	1960	1217	22243	24208	1940
	-20	1586	29593	32903	1970	1408	25876	28490	1930	1349	24665	27067	1920	1231	22282	24290	1900
	-15	1599	29516	32878	1930	1422	25841	28501	1890	1363	24643	27089	1880	1245	22285	24335	1860
	-10	1613	29440	32853	1890	1436	25806	28512	1860	1377	24620	27111	1850	1259	22288	24379	1830
	-5	1627	29733	33249	1860	1450	26086	28879	1820	1390	24897	27470	1810	1272	22557	24720	1790
	0	1640	30616	34326	1830	1463	26874	29824	1800	1404	25649	28368	1790	1286	23258	25545	1770
	5	1654	33859	38059	1820	1477	29696	33035	1790	1418	28343	31420	1780	1299	25687	28276	1750
10	1667	42782	48203	1860	1490	37379	41673	1820	1431	35632	39584	1800	1313	32218	35538	1780	
1 2 0 0 0	-54	1480	56777	62070	2580	1302	48387	52439	2470	1243	45712	49395	2440	1125	40534	43542	2390
	-35	1534	28473	31413	2080	1357	24797	27101	2040	1298	23598	25710	2030	1180	21241	22994	2010
	-30	1548	28502	31504	2040	1371	24854	27211	2000	1312	23664	25827	1990	1194	21324	23123	1970
	-25	1562	28474	31530	1990	1385	24861	27267	1960	1326	23683	25891	1950	1208	21365	23206	1930
	-20	1576	28443	31554	1950	1399	24865	27319	1920	1340	23698	25953	1910	1222	21402	23285	1890
	-15	1590	28370	31529	1920	1413	24832	27330	1880	1354	23678	25974	1870	1235	21406	23327	1850
	-10	1603	28298	31505	1880	1426	24799	27340	1850	1367	23657	25995	1840	1249	21409	23369	1820
	-5	1617	28571	31874	1850	1440	25061	27683	1820	1381	23916	26330	1810	1263	21662	23689	1790
	0	1630	29396	32877	1820	1453	25799	28565	1790	1394	24626	27174	1780	1276	22318	24460	1760
	5	1644	32417	36346	1810	1467	28431	31551	1780	1408	27134	30008	1770	1289	24586	27003	1750
10	1657	40651	45681	1840	1480	35522	39505	1800	1421	33864	37529	1790	1303	30621	33698	1760	
1 2 0 0 0	-54	1469	52850	57634	2520	1292	45089	48751	2440	1233	42609	45936	2410	1115	37798	40513	2360
	-35	1523	27229	29953	2070	1346	23706	25838	2030	1287	22556	24509	2020	1169	20294	21913	2000
	-30	1538	27255	30036	2020	1361	23759	25940	1990	1302	22618	24618	1980	1184	20373	22034	1960
	-25	1551	27228	30060	1980	1374	23769	25995	1950	1315	22636	24678	1940	1197	20412	22112	1920
	-20	1565	27199	30081	1940	1388	23770	26040	1910	1329	22651	24735	1900	1211	20447	22186	1880
	-15	1578	27130	30056	1900	1401	23739	26050	1870	1342	22632	24755	1860	1224	20452	22226	1850
	-10	1592	27062	30033	1870	1415	23708	26059	1840	1356	22613	24775	1830	1238	20456	22266	1810
	-5	1605	27313	30373	1830	1428	23952	26376	1810	1369	22852	25083	1800	1251	20692	22563	1780
	0	1619	28078	31298	1810	1442	24636	27191	1780	1383	23513	25866	1770	1264	21302	23277	1760
	5	1632	30869	34491	1800	1455	27070	29944	1770	1396	25832	28479	1760	1278	23400	25623	1740
10	1646	38390	42989	1830	1468	33556	37195	1790	1409	31991	35339	1770	1291	28926	31735	1750	
1 8 0 0 0	-54	1459	49324	53689	2480	1282	42118	45458	2400	1223	39809	42844	2380	1105	35324	37798	2330
	-35	1514	26053	28597	2060	1337	22674	24662	2020	1278	21570	23390	2010	1160	19397	20905	1990
	-30	1528	26075	28672	2010	1349	22723	24756	1980	1290	21628	23491	1970	1172	19471	21017	1950
	-25	1540	26050	28693	1970	1363	22729	24805	1940	1304	21645	23548	1930	1186	19509	21091	1910
	-20	1554	26022	28713	1930	1377	22734	24850	1900	1317	21659	23602	1890	1199	19543	21161	1870
	-15	1567	25957	28689	1890	1390	22705	24859	1870	1331	21642	23621	1860	1213	19548	21200	1840
	-10	1581	25892	28666	1860	1403	22676	24867	1830	1344	21624	23639	1820	1226	19550	21235	1800
	-5	1594	26125	28980	1820	1417	22902	25162	1800	1358	21849	23927	1790	1240	19773	21514	1770
	0	1607	26833	29836	1800	1430	23538	25917	1770	1371	22461	24651	1760	1253	20341	22177	1740
	5	1620	29417	32784	1790	1443	25792	28460	1760	1384	24610	27066	1750	1266	22286	24347	1730
10	1634	36305	40545	1810	1457	31739	35092	1770	1398	30258	33342	1760	1280	27357	29942	1740	
1 6 0 0 0	-54	1449	46141	50100	2450	1272	39427	42454	2380	1212	37271	40020	2350	1094	33076	35315	2310
	-35	1502	24932	27280	2050	1325	21690	23523	2010	1266	20631	22307	2000	1147	18543	19930	1980
	-30	1516	24953	27351	2000	1338	21736	23612	1970	1279	20685	22402	1960	1161	18614	20037	1940
	-25	1529	24928	27370	1960	1352	21743	23657	1930	1293	20702	22455	1920	1175	18650	20108	1900
	-20	1543	24901	27386	1920	1366	21747	23698	1890	1307	20715	22505	1880	1189	18682	20172	1870
	-15	1556	24838	27360	1880	1379	21721	23706	1860	1320	20699	22521	1850	1202	18688	20207	1830
	-10	1570	24776	27334	1850	1393	21691	23709	1820	1333	20682	22536	1810	1215	18692	20240	1790
	-5	1582	24998	27639	1820	1405	21906	23993	1790	1346	20895	22813	1780	1228	18901	20505	1760
	0	1595	25659	28437	1790	1418	22499	24697	1760	1359	21467	23488	1750	1241	19431	21124	1730
	5	1609	28053	31158	1770	1431	24590	27048	1750	1372	23460	25722	1740	1254	21236	23131	1720
10	1622	34375	38257	1790	1445	30054	33121	1760	1386	28651	31471	1750	1268	25899	28261	1730	
1 4 0 0 0	-54	1438	43253	46878	2420	1261	36978	39748	2350	1202	34959	37473	2330	1084	31024	33071	2290
	-35	1493	23844	25997	2030	1316	20739	22417	2000	1257	19724	21258	1990	1139	17722	18989	1980
	-30	1507	23863	26061	1990	1330	20782	22500	1960	1271	19775	21346	1950	1153	17789	19089	1940
	-25	1520	23839	26077	1950	1343	20789	22541	1920	1284	19791	21396	1910	1166	17823	19154	1900
	-20	1534	23807	26084	1910	1357	20792	22579	1890	1298	19804	21442	1880	1180	17855	19216	1860
	-15	1547	23754	26085	1870	1370	20766	22584	1850	1311	19789	21456	1840	1193	17860	19249	1820
	-10	1561	23695	26040	1840	1383	20740	22588	1810	1324	19773	21470	1800	1206	17865	19280	1790
	-5	1573	23900	26320	1810	1396	20940	22850	1780	1337	19971	21726	1770	1219	18060	19526	1760
	0	1585	24528	27092	1780	1408	21502	23528	1750	1349	20512	22375	1740	1231</			

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
1,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
		1	-54	1417	38214	41238	2360	1240	32688	34994	2310	1181	30903	32995	2290	1082	27418
1	-35	1476	21835	23671	2020	1299	18982	20367	1990	1240	18048	19312	1980	1122	16204	17245	1960
0	-30	1489	21850	23671	1970	1312	19020	20438	1950	1253	18093	19389	1940	1135	16263	17333	1920
0	-25	1503	21829	23682	1930	1326	19026	20473	1910	1287	18108	19431	1900	1149	16295	17390	1880
0	-20	1516	21805	23690	1890	1339	19029	20504	1870	1280	18120	19470	1860	1162	16324	17444	1840
0	-15	1530	21750	23661	1860	1352	19005	20504	1830	1293	18108	19479	1820	1175	16330	17470	1810
0	-10	1543	21696	23633	1820	1366	18981	20504	1800	1307	18092	19488	1790	1188	16335	17496	1770
0	-5	1555	21677	23682	1790	1378	19158	20736	1770	1319	18267	19715	1760	1200	16507	17714	1740
0	0	1566	22419	24542	1760	1389	19644	21318	1740	1330	18735	20272	1730	1212	16941	18223	1710
0	5	1574	24389	26831	1740	1397	21359	23284	1720	1338	20368	22137	1710	1220	18414	19891	1700
0	10	1584	29359	32398	1750	1407	25661	28054	1720	1348	24456	26653	1710	1230	22086	23920	1690
1	-54	1389	33003	35802	2310	1212	28229	30361	2260	1153	26683	28614	2240	1035	23653	25218	2210
1	-35	1464	19523	21035	1990	1287	16975	18148	1970	1228	16139	17209	1960	1110	14487	15367	1940
0	-30	1477	19535	21079	1950	1300	17007	18208	1930	1241	16177	17275	1920	1123	14538	15443	1900
0	-25	1490	19515	21087	1910	1313	17012	18237	1890	1254	16190	17311	1880	1136	14567	15492	1870
0	-20	1504	19494	21093	1870	1326	17015	18264	1850	1267	16202	17345	1840	1149	14593	15539	1830
0	-15	1515	19447	21067	1840	1338	16995	18264	1810	1279	16190	17353	1810	1161	14600	15563	1790
0	-10	1530	19401	21043	1800	1353	16976	18265	1780	1294	16180	17361	1770	1176	14606	15587	1760
0	-5	1542	19552	21255	1770	1364	17123	18463	1750	1305	16327	17555	1740	1187	14751	15773	1730
0	0	1551	20016	21846	1740	1374	17539	18980	1720	1315	16726	18048	1710	1197	15120	16221	1700
0	5	1551	21713	23923	1720	1374	19006	20746	1700	1315	18119	19716	1690	1197	16368	17698	1680
0	10	1554	25890	28751	1730	1377	22610	24860	1700	1318	21539	23603	1690	1200	19430	21148	1670
1	-54	1361	28705	30976	2260	1184	24536	26258	2220	1125	23180	24738	2210	1007	20520	21777	2180
1	-35	1452	17503	18566	1970	1274	15218	16032	1950	1215	14467	15209	1940	1097	12982	13590	1930
0	-30	1465	17512	18587	1930	1288	15245	16079	1910	1229	14500	15261	1900	1110	13027	13652	1890
0	-25	1478	17494	18589	1890	1301	15250	16101	1870	1242	14512	15289	1870	1124	13053	13692	1850
0	-20	1491	17476	18589	1860	1314	15253	16120	1840	1255	14522	15315	1830	1137	13077	13730	1820
0	-15	1504	17435	18563	1820	1327	15236	16117	1800	1268	14514	15319	1790	1150	13084	13749	1780
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0	-5	1528	17520	18707	1750	1351	15344	16275	1730	1292	14628	15481	1730	1174	13213	13920	1710
0	0	1538	17907	19191	1720	1361	15691	16699	1700	1302	14963	15887	1700	1183	13522	14290	1690
0	5	1537	19311	20894	1700	1360	16907	18149	1680	1301	16118	17256	1680	1183	14557	15503	1660
0	10	1530	22849	25106	1700	1353	19942	21710	1680	1293	18991	20611	1670	1175	17114	18459	1650
9	-54	1332	25091	26936	2230	1155	21421	22812	2190	1096	20224	21481	2180	978	17871	18880	2150
9	-35	1439	15722	16396	1960	1262	13667	14186	1940	1203	12991	13463	1930	1085	11652	12037	1920
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0	-25	1466	15712	16413	1880	1288	13694	14237	1860	1229	13030	13525	1850	1111	11714	12120	1840
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0	-15	1491	15661	16382	1800	1314	13683	14244	1790	1255	13032	13545	1780	1137	11743	12165	1770
0	-10	1504	15625	16355	1770	1327	13669	14238	1750	1268	13025	13545	1750	1150	11750	12179	1730
0	-5	1516	15730	16492	1740	1339	13774	14369	1720	1279	13130	13675	1710	1161	11854	12305	1700
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9	-54	1309	21942	23350	2190	1132	18715	19772	2160	1073	17661	18613	2150	955	15584	16344	2130
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0	-20	1465	14115	14492	1820	1288	12312	12604	1810	1229	11719	11985	1800	1111	10541	10759	1790
0	-15	1478	14084	14465	1790	1301	12301	12596	1770	1242	11713	11983	1770	1124	10549	10770	1760
0	-10	1491	14053	14437	1750	1314	12289	12588	1740	1255	11708	11980	1730	1137	10555	10779	1720
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0	10	1496	17820	18910	1660	1318	15552	16401	1640	1259	14807	15583	1640	1141	13334	13973	1620
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8	-35	1413	12721	12915	1930	1236	11047	11196	1910	1177	10495	10630	1910	1059	9401	9510	1900
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0	-25	1438	12711	12914	1850	1261	11068	11224	1830	1202	10526	10688	1830	1084	9450	9566	1820
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0	-5	1488	12718														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON**

**FLAPS - 0°
2,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 2 3 7 5	-54	1512	50771	55829	2480	1335	43575	47484	2400	1276	41268	44834	2380	1158	36786	39719	2330
	-35	1568	29496	32736	2070	1391	25756	28308	2040	1332	24537	26881	2030	1214	22140	24095	2000
	-30	1583	29514	32819	2030	1406	25804	28414	2000	1347	24595	26993	1990	1228	22216	24221	1960
	-25	1597	29504	32872	1990	1420	25828	28493	1960	1361	24629	27080	1950	1243	22271	24324	1920
	-20	1611	29467	32894	1950	1434	25827	28544	1920	1375	24640	27141	1910	1257	22304	24403	1890
	-15	1625	29397	32879	1910	1448	25797	28564	1880	1389	24623	27171	1870	1271	22312	24454	1850
	-10	1637	29327	32863	1870	1460	25766	28582	1840	1401	24605	27200	1830	1283	22318	24503	1810
	-5	1653	30206	33934	1850	1476	26553	29525	1820	1417	25362	28103	1810	1299	23018	25329	1790
	0	1667	31410	35385	1820	1490	27619	30791	1790	1431	26385	29311	1780	1313	23957	26246	1760
	5	1681	38081	43029	1840	1504	33392	37330	1810	1445	31873	35504	1790	1327	28896	31957	1770
10	1695	49286	55815	1900	1518	42992	48164	1850	1459	40969	45732	1830	1340	37029	41034	1800	
1 2 0 0 0	-54	1503	47917	52596	2450	1326	41153	44768	2380	1267	38981	42277	2360	1149	34754	37463	2310
	-35	1559	28341	31387	2060	1382	24743	27139	2030	1323	23569	25769	2020	1204	21259	23093	2000
	-30	1573	28357	31464	2020	1396	24788	27239	1990	1337	23624	25875	1980	1219	21332	23212	1950
	-25	1587	28348	31513	1980	1410	24814	27317	1950	1351	23657	25957	1940	1233	21385	23310	1920
	-20	1602	28313	31533	1940	1424	24810	27362	1910	1365	23667	26015	1900	1247	21417	23385	1880
	-15	1616	28247	31519	1900	1438	24783	27380	1870	1379	23652	26044	1860	1261	21426	23434	1840
	-10	1629	28182	31505	1860	1452	24755	27398	1830	1393	23636	26072	1830	1275	21433	23482	1810
	-5	1643	29002	32503	1840	1466	25491	28278	1810	1407	24345	26915	1800	1289	22089	24254	1780
	0	1657	30124	33851	1810	1480	26486	29457	1780	1421	25300	28040	1770	1303	22966	25277	1750
	5	1671	36309	40919	1830	1494	31844	35511	1790	1435	30395	33776	1780	1316	27554	30402	1760
10	1684	46530	52553	1880	1507	40617	45388	1830	1448	38713	43106	1820	1330	35000	38693	1790	
1 2 0 0 0	-54	1493	44955	49250	2420	1316	38633	41949	2350	1257	36599	39621	2330	1139	32634	35116	2290
	-35	1548	27100	29943	2050	1371	23652	25887	2020	1312	22526	24577	2010	1193	20310	22017	1990
	-30	1564	27115	30016	2010	1387	23695	25980	1980	1328	22579	24677	1970	1209	20380	22130	1950
	-25	1576	27105	30061	1970	1399	23716	26050	1940	1340	22610	24754	1930	1222	20430	22222	1910
	-20	1590	27072	30079	1930	1413	23717	26096	1900	1354	22621	24809	1890	1236	20462	22294	1870
	-15	1604	27011	30066	1890	1427	23692	26114	1860	1368	22608	24837	1850	1250	20471	22341	1830
	-10	1618	26951	30053	1850	1441	23667	26132	1830	1382	22594	24864	1820	1264	20484	22391	1800
	-5	1632	27711	30976	1830	1454	24350	26946	1800	1395	23252	25645	1790	1277	21090	23103	1770
	0	1645	28749	32219	1800	1468	25272	28035	1770	1409	24137	26685	1760	1291	21904	24050	1740
	5	1659	34435	38700	1810	1482	30203	33594	1780	1423	28828	31953	1770	1305	26130	28760	1750
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1 8 0 0 0	-54	1482	42270	46187	2390	1305	36342	39364	2330	1246	34431	37184	2310	1128	30702	32961	2270
	-35	1537	25933	28568	2040	1360	22625	24693	2010	1301	21544	23441	2000	1182	19415	20992	1980
	-30	1551	25945	28633	2000	1374	22665	24779	1970	1315	21593	23533	1960	1197	19481	21097	1940
	-25	1565	25936	28675	1960	1388	22685	24844	1930	1329	21623	23606	1920	1211	19530	21184	1900
	-20	1579	25905	28691	1920	1402	22686	24887	1890	1343	21634	23657	1880	1225	19560	21252	1860
	-15	1593	25847	28678	1880	1415	22663	24904	1850	1356	21622	23684	1840	1238	19570	21297	1820
	-10	1606	25790	28665	1840	1429	22640	24921	1820	1370	21610	23709	1810	1252	19579	21341	1790
	-5	1620	26496	29517	1820	1443	23274	25675	1790	1384	22221	24433	1780	1266	20146	22005	1760
	0	1633	27456	30665	1790	1456	24129	26681	1760	1397	23043	25394	1750	1279	20902	22881	1740
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1 6 0 0 0	-54	1472	39821	43424	2360	1295	34246	37023	2310	1236	32446	34975	2290	1118	28928	31002	2250
	-35	1526	24828	27289	2030	1348	21652	23580	2000	1289	20613	22381	1990	1171	18566	20034	1970
	-30	1540	24839	27349	1990	1362	21689	23661	1960	1303	20659	22467	1950	1185	18629	20133	1930
	-25	1554	24829	27366	1950	1376	21708	23721	1920	1317	20685	22532	1910	1199	18675	20215	1890
	-20	1567	24794	27395	1910	1390	21709	23761	1880	1331	20698	22583	1870	1213	18704	20279	1850
	-15	1581	24745	27388	1870	1404	21687	23777	1840	1345	20687	22609	1830	1227	18715	20322	1820
	-10	1595	24690	27374	1830	1417	21665	23792	1810	1358	20676	22632	1800	1240	18723	20363	1780
	-5	1608	25346	28165	1810	1431	22256	24493	1780	1372	21246	23305	1770	1254	19253	20981	1750
	0	1621	26237	29226	1780	1444	23050	25425	1750	1385	22009	24198	1740	1267	19956	21794	1730
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1 4 0 0 0	-54	1461	37570	40887	2340	1284	32314	34869	2290	1225	30615	32941	2270	1107	27291	29195	2230
	-35	1517	23749	26008	2020	1340	20706	22474	1990	1280	19710	21330	1980	1162	17747	19090	1960
	-30	1531	23759	26063	1980	1353	20741	22550	1950	1294	19754	21411	1940	1176	17807	19184	1920
	-25	1544	23749	26097	1940	1367	20759	22606	1910	1308	19781	21475	1900	1190	17850	19261	1880
	-20	1558	23720	26109	1900	1381	20759	22642	1870	1322	19790	21519	1860	1204	17879	19320	1850
	-15	1572	23667	26092	1860	1395	20739	22654	1840	1336	19780	21540	1830	1218	17888	19359	1810
	-10	1585	23616	26078	1820	1408	20718	22666	1800	1349	19770	21561	1790	1231	17897	19397	1780
	-5	1597	24239	26843	1800	1420	21278	23341	1770	1361	20309	22207	1760	1243	18397	19988	1750
	0	1609	25085	27870	1770	1432	22029	24239	1740	1373	21030	23064	1740				

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
2,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1000	-54	1439	33569	36367	2300	1262	28872	31021	2250	1203	27349	29303	2230	1085	24365	25960	2200
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	-20	1540	21726	23709	1880	1363	19004	20563	1860	1304	18112	19541	1850	1186	16350	17539	1830
	-15	1553	21679	23693	1840	1376	18984	20570	1820	1317	18104	19559	1810	1199	16360	17574	1800
	-10	1567	21633	23677	1810	1390	18969	20582	1780	1330	18095	19577	1770	1212	16370	17607	1760
	-5	1579	22171	24331	1780	1402	19453	21161	1760	1342	18562	20132	1750	1224	16804	18116	1730
	0	1588	22899	25209	1750	1411	20102	21930	1730	1352	19186	20866	1720	1234	17377	18784	1710
	5	1598	26803	29672	1750	1421	23489	25758	1720	1362	22407	24493	1720	1244	20276	22022	1700
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	-30	1499	19466	20904	1940	1322	16985	18107	1910	1263	16171	17197	1910	1145	14562	15410	1890
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	-10	1553	19350	20881	1790	1376	16969	18174	1770	1317	16186	17292	1760	1199	14640	15561	1750
	-5	1563	19811	21455	1760	1386	17382	18678	1740	1327	16584	17775	1730	1209	15008	16001	1720
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	5	1570	23753	26133	1730	1393	20802	22678	1700	1334	19836	21559	1690	1216	17931	19369	1680
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	-30	1487	17452	18601	1920	1310	15227	16122	1900	1251	14496	15314	1890	1133	13049	13724	1880
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	-20	1514	17422	18612	1840	1336	15240	16170	1820	1277	14522	15374	1820	1159	13102	13807	1800
	-15	1527	17387	18592	1810	1350	15227	16173	1790	1291	14517	15384	1780	1173	13112	13831	1770
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	-5	1550	17735	19050	1740	1373	15560	16596	1720	1314	14846	15795	1720	1196	13431	14221	1700
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	5	1549	21048	23072	1700	1372	18427	20019	1680	1313	17567	19029	1680	1195	15870	17087	1660
10	1547	25070	27766	1710	1370	21892	24009	1680	1311	20853	22795	1670	1193	18807	20423	1660	
950	-54	1358	22654	24330	2190	1180	19432	20705	2150	1121	18380	19532	2140	1003	16305	17235	2120
	-35	1461	15674	16394	1940	1284	13656	14213	1920	1225	12990	13498	1920	1107	11676	12093	1900
	-30	1474	15676	16411	1900	1297	13675	14246	1880	1238	13017	13537	1880	1120	11709	12137	1860
	-25	1487	15668	16417	1860	1310	13685	14268	1840	1251	13033	13565	1840	1133	11740	12178	1830
	-20	1501	15649	16410	1830	1323	13686	14279	1810	1264	13040	13582	1800	1146	11759	12207	1790
	-15	1514	15618	16389	1790	1337	13676	14278	1770	1278	13036	13587	1770	1160	11769	12225	1760
	-10	1527	15588	16368	1760	1350	13666	14276	1740	1291	13033	13592	1730	1173	11779	12242	1720
	-5	1537	15910	16759	1730	1359	13957	14623	1710	1300	13315	13925	1700	1182	12040	12547	1690
	0	1545	16343	17284	1700	1368	14343	15082	1680	1309	13685	14362	1670	1191	12381	12944	1660
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	-25	1474	14090	14498	1850	1297	12302	12619	1830	1238	11713	12002	1830	1120	10545	10782	1820
	-20	1487	14073	14488	1810	1310	12303	12625	1800	1251	11720	12014	1790	1133	10563	10805	1780
	-15	1500	14046	14465	1780	1323	12295	12621	1760	1264	11718	12015	1760	1146	10573	10818	1750
	-10	1513	14020	14442	1740	1336	12286	12616	1730	1277	11715	12016	1720	1159	10582	10831	1710
	-5	1523	14292	14765	1710	1346	12533	12903	1700	1286	11953	12292	1690	1168	10804	11084	1680
	0	1531	14656	15197	1680	1354	12859	13282	1670	1295	12266	12653	1660	1177	11093	11414	1650
	5	1520	16589	17491	1670	1343	14523	15228	1650	1284	13844	14488	1650	1166	12498	13032	1630
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	-30	1446	12684	12903	1870	1269	11054	11222	1860	1210	10516	10670	1850	1092	9450	9575	1840
	-25	1460	12676	12900	1840	1283	11062	11234	1820	1224	10529	10686	1820	1106	9472	9600	1810
	-20	1473	12662	12888	1800	1296	11063	11238	1780	1237	10535	10695	1780	1119	9488	9619	1770
	-15	1486	12638	12866	1760	1309	11056	11232	1750	1249	10534	10695	1750	1131	9498	9630	1740
	-10	1499	12615	12844	1730	1322	11049	11227	1720	1262	10532	10695	1710	1144	9507	9640	1700
	-5	1508	12845	13114	1700	1331	11258	11468	1690	1272	10735	10926	1680	1154	9696	9854	1670
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	5	1505	14777														

**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON**

**FLAPS - 0°
3,000 FEET**

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
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	-35	1594	29269	32645	2060	1417	25620	28291	2020	1358	24430	26886	2010	1239	22089	24146	1990
	-30	1609	29278	32720	2020	1431	25659	28390	1980	1372	24479	26992	1970	1254	22157	24266	1950
	-25	1623	29286	32796	1970	1446	25698	28488	1940	1387	24528	27098	1930	1269	22224	24385	1910
	-20	1638	29238	32809	1930	1461	25687	28531	1900	1401	24529	27150	1890	1283	22248	24456	1870
	-15	1652	29181	32811	1900	1475	25668	28564	1870	1416	24521	27193	1860	1298	22263	24518	1840
	-10	1666	29396	33124	1860	1489	25882	28862	1830	1430	24735	27486	1820	1312	22477	24802	1800
	-5	1680	30856	34871	1840	1503	27172	30384	1810	1444	25972	28938	1800	1326	23609	26118	1780
	0	1695	33580	38059	1830	1517	29556	33139	1790	1458	28246	31556	1780	1340	25674	28475	1760
	5	1709	43507	49431	1880	1532	38124	42845	1830	1473	36385	40742	1820	1355	32988	36667	1790
10	1723	57855	65913	1960	1546	50355	56733	1900	1487	47940	53814	1880	1368	43284	48225	1840	
1 2 2 0 0 0	-54	1528	41270	45530	2360	1350	35667	38983	2300	1291	33858	36889	2290	1173	30323	32830	2250
	-35	1584	28112	31286	2050	1407	24602	27110	2010	1348	23456	25762	2000	1230	21201	23131	1980
	-30	1599	28119	31356	2000	1422	24638	27203	1970	1363	23503	25862	1960	1245	21266	23244	1940
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	-10	1656	28226	31730	1850	1479	24847	27645	1820	1420	23743	26326	1810	1302	21570	23750	1790
	-5	1670	29588	33355	1830	1493	26052	29063	1800	1434	24898	27679	1790	1316	22628	24977	1770
	0	1684	32120	36312	1820	1507	28262	31613	1780	1448	27016	30110	1770	1330	24552	27168	1750
	5	1698	41252	46747	1860	1521	36153	40532	1820	1462	34516	38555	1800	1344	31295	34705	1780
10	1712	54155	61532	1930	1535	47178	53021	1870	1476	44944	50324	1850	1358	40602	45128	1820	
1 2 0 0 0 0	-54	1517	38940	42873	2340	1340	33662	36721	2280	1281	31955	34751	2270	1163	28616	30928	2230
	-35	1573	26867	29833	2030	1396	23506	25846	2000	1337	22408	24559	1990	1219	20245	22042	1970
	-30	1588	26873	29897	1990	1410	23540	25933	1960	1351	22452	24652	1950	1233	20307	22149	1930
	-25	1602	26886	29968	1950	1425	23574	26019	1920	1366	22495	24744	1910	1248	20367	22254	1890
	-20	1617	26836	29972	1910	1439	23565	26057	1880	1380	22496	24792	1870	1262	20390	22319	1860
	-15	1630	26785	29973	1880	1453	23548	26086	1850	1394	22491	24830	1840	1276	20406	22375	1820
	-10	1644	26970	30242	1840	1467	23735	26345	1810	1408	22677	25085	1800	1290	20593	22624	1790
	-5	1658	28230	31742	1820	1481	24851	27655	1790	1422	23748	26336	1780	1304	21575	23759	1760
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	5	1686	38893	43952	1840	1509	34106	38135	1800	1450	32555	36271	1790	1332	29518	32652	1760
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1 1 8 0 0 0	-54	1506	36804	40412	2320	1329	31820	34623	2260	1270	30206	32767	2250	1152	27046	29159	2220
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	-30	1576	25705	28508	1980	1399	22509	24724	1950	1340	21464	23500	1940	1222	19405	21107	1920
	-25	1590	25710	28568	1940	1413	22541	24804	1910	1354	21505	23586	1900	1236	19463	21206	1880
	-20	1605	25670	28578	1900	1427	22533	24840	1870	1368	21508	23631	1870	1250	19485	21268	1850
	-15	1619	25622	28577	1870	1441	22518	24868	1840	1382	21503	23668	1830	1264	19501	21321	1810
	-10	1633	25793	28826	1830	1455	22692	25107	1800	1396	21677	23904	1800	1278	19677	21553	1780
	-5	1646	26961	30211	1810	1469	23728	26319	1780	1410	22671	25061	1770	1292	20589	22604	1750
	0	1661	29115	32709	1790	1484	25622	28490	1760	1425	24481	27127	1750	1306	22235	24468	1730
	5	1674	36738	41366	1820	1497	32223	35906	1780	1438	30762	34158	1770	1320	27887	30749	1750
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1 1 6 0 0 0	-54	1495	34841	38176	2300	1318	30124	32713	2250	1259	28594	30958	2230	1141	25597	27545	2200
	-35	1551	24600	27162	2010	1373	21505	23522	1980	1314	20493	22345	1970	1196	18498	20041	1960
	-30	1565	24603	27216	1970	1388	21536	23598	1940	1329	20533	22427	1930	1211	18554	20136	1920
	-25	1579	24608	27272	1930	1402	21567	23674	1900	1343	20572	22509	1890	1225	18610	20230	1880
	-20	1593	24570	27279	1890	1416	21560	23706	1870	1357	20575	22550	1860	1239	18632	20288	1840
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	-10	1621	24688	27518	1820	1443	21711	23962	1800	1384	20737	22812	1790	1266	18815	20560	1770
	-5	1634	25774	28803	1800	1457	22675	25088	1770	1398	21662	23887	1760	1280	19664	21537	1740
	0	1648	27773	31116	1780	1471	24432	27095	1750	1412	23341	25797	1740	1294	21192	23262	1730
	5	1662	34762	39031	1800	1485	30494	33889	1770	1426	29107	32236	1760	1308	26386	29021	1740
10	1676	44027	49548	1850	1499	38459	42834	1800	1440	36663	40691	1790	1322	33157	36542	1760	
1 1 4 0 0 0	-54	1484	33029	36090	2280	1307	28556	30929	2230	1248	27104	29269	2220	1130	24255	26037	2190
	-35	1540	23533	25865	2000	1363	20589	22403	1980	1304	19599	21281	1970	1166	17685	19086	1950
	-30	1556	23537	25916	1960	1379	20599	22473	1930	1320	19637	21358	1930	1202	17739	19175	1910
	-25	1570	23541	25966	1920	1393	20628	22543	1900	1334	19674	21434	1890	1216	17792	19262	1870
	-20	1584	23505	25971	1880	1407	20621	22573	1860	1348	19677	21472	1850	1230	17813	19316	1830
	-15	1598	23463	25968	1850	1421	20609	22596	1820	1362	19671	21499	1810	1244	17829	19363	1800
	-10	1611	23814	26190	1810	1434	20763	22809	1790	1375	19829	21714	1780	1257	17986	19569	1760
	-5	1623	24648	27440	1790	1446	21678	23898	1760	1387	20706	22752	1750	1268	18788	20509	1740
	0	1636	26510	29595	1770	1459	23314	25769	1740	1400	22269	245					

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
3,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1462	29781	32382	2240	1285	25736	27747	2200	1226	24420	26253	2190	1108	21835	23340	2160
	-35	1524	21569	23507	1980	1347	18842	20361	1960	1287	17948	19340	1950	1169	16183	17339	1930
	-30	1538	21571	23547	1940	1361	18868	20420	1920	1302	17982	19406	1910	1183	16231	17416	1890
	-25	1552	21573	23587	1900	1374	18893	20479	1880	1315	18014	19470	1870	1197	16279	17492	1860
	-20	1565	21541	23589	1870	1388	18888	20504	1840	1329	18018	19503	1830	1211	16299	17539	1820
	-15	1580	21502	23582	1830	1403	18877	20522	1810	1344	18016	19528	1800	1225	16315	17580	1780
	-10	1592	21633	23772	1800	1415	19011	20706	1770	1356	18151	19710	1770	1238	16452	17759	1750
	-5	1604	22526	24841	1770	1426	19802	21639	1750	1367	18910	20601	1740	1249	17148	18566	1720
	0	1613	24166	26775	1750	1436	21240	23310	1730	1377	20282	22188	1720	1259	18393	19993	1700
	5	1625	29662	32973	1760	1448	26012	28637	1730	1388	24823	27239	1720	1270	22483	24511	1700
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1 0 5	-54	1434	26285	28414	2210	1256	22687	24326	2170	1197	21515	23007	2160	1079	19211	20431	2130
	-35	1511	19301	20688	1960	1334	16862	17947	1940	1275	16062	17054	1930	1157	14479	15300	1920
	-30	1525	19301	20716	1920	1348	16884	17993	1900	1289	16090	17106	1890	1171	14521	15364	1880
	-25	1539	19302	20745	1880	1361	16905	18039	1860	1302	16118	17158	1850	1184	14562	15426	1840
	-20	1552	19273	20739	1850	1375	16901	18055	1820	1316	16122	17181	1820	1198	14581	15463	1800
	-15	1566	19239	20727	1810	1389	16892	18065	1790	1330	16121	17199	1780	1212	14596	15495	1770
	-10	1579	19351	20887	1780	1401	17006	18221	1760	1342	16237	17353	1750	1224	14714	15646	1740
	-5	1586	20117	21830	1750	1409	17682	19038	1730	1350	16883	18130	1720	1232	15304	16346	1710
	0	1590	21528	23552	1730	1412	18911	20513	1710	1353	18053	19526	1700	1235	16358	17591	1690
	5	1592	26138	28837	1730	1415	22904	25037	1710	1356	21848	23809	1700	1238	19767	21407	1680
10	1606	31646	34979	1750	1429	27673	30302	1720	1370	26380	28796	1710	1251	23841	25861	1690	
1 0 0	-54	1408	23224	25125	2180	1231	20031	21491	2140	1172	18987	20314	2130	1054	16930	18012	2110
	-35	1498	17315	18417	1940	1321	15126	15986	1920	1262	14407	15193	1920	1144	12983	13632	1900
	-30	1512	17314	18439	1900	1335	15145	16024	1880	1276	14432	15237	1880	1158	13020	13686	1860
	-25	1526	17314	18460	1870	1348	15163	16062	1850	1289	14456	15279	1840	1171	13056	13739	1830
	-20	1539	17288	18453	1830	1362	15160	16075	1810	1303	14460	15299	1800	1185	13074	13771	1790
	-15	1553	17259	18441	1790	1376	15153	16083	1770	1317	14460	15313	1770	1199	13088	13798	1760
	-10	1565	17352	18573	1760	1388	15249	16212	1740	1329	14557	15442	1730	1211	13188	13926	1720
	-5	1573	17990	19358	1730	1396	15813	16893	1710	1337	15098	16090	1710	1218	13682	14510	1690
	0	1576	19157	20783	1710	1399	16831	18116	1690	1340	16068	17248	1680	1221	14557	15543	1670
	5	1585	23060	25441	1710	1388	20194	22071	1690	1329	19255	20979	1680	1210	17404	18842	1660
10	1572	27572	30575	1710	1395	24096	26460	1690	1336	22962	25132	1680	1218	20730	22541	1660	
9 5 0	-54	1389	20511	21988	2150	1212	17683	18813	2120	1153	16757	17783	2110	1035	14929	15762	2090
	-35	1486	15562	16313	1930	1309	13592	14176	1910	1249	12943	13477	1900	1131	11659	12098	1890
	-30	1499	15560	16326	1890	1322	13607	14205	1870	1263	12965	13511	1860	1145	11691	12142	1850
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	-20	1526	15536	16330	1810	1349	13621	14242	1790	1290	12990	13559	1790	1172	11740	12212	1780
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	-10	1552	15588	16422	1740	1375	13696	14352	1730	1316	13073	13675	1720	1198	11839	12339	1710
	-5	1559	16123	17072	1710	1382	14171	14918	1700	1323	13528	14213	1690	1205	12254	12825	1680
	0	1562	17097	18251	1690	1385	15021	15930	1670	1326	14338	15172	1670	1208	12986	13681	1660
	5	1546	20335	22150	1690	1369	17805	19232	1670	1309	16975	18284	1660	1191	15336	16424	1650
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	-20	1512	13978	14414	1800	1335	12249	12590	1780	1276	11680	11991	1780	1158	10550	10807	1770
	-15	1526	13956	14397	1760	1349	12245	12590	1750	1290	11681	11997	1740	1171	10562	10824	1730
	-10	1538	14020	14482	1730	1361	12314	12676	1720	1302	11752	12083	1710	1184	10636	10911	1700
	-5	1545	14472	15020	1700	1368	12715	13145	1690	1309	12136	12530	1680	1191	10988	11315	1670
	0	1547	15290	15996	1680	1370	13429	13984	1660	1311	12817	13325	1660	1193	11602	12025	1650
	5	1530	17967	19192	1670	1353	15732	16692	1650	1294	14997	15877	1640	1176	13544	14274	1630
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8 5 0	-54	1361	16067	16783	2100	1184	13846	14390	2080	1125	13116	13608	2070	1007	11671	12068	2060
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	-20	1498	12580	12802	1790	1321	11018	11191	1770	1262	10503	10661	1770	1144	9480	9610	1760
	-15	1511	12561	12785	1750	1334	11015	11190	1740	1275	10505	10664	1730	1157	9492	9624	1720
	-10	1523	12615	12853	1720	1346	11074	11260	1700	1287	10565	10735	1700	1169	9556	9697	1690
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	5																

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
4,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
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	-35	1620	29057	32581	2040	1443	25494	28293	2010	1384	24332	26910	2000	1266	22044	24212	1980
	-30	1635	29083	32677	2000	1458	25548	28410	1970	1399	24395	27034	1960	1281	22124	24347	1930
	-25	1650	29091	32756	1960	1473	25586	28511	1930	1414	24442	27141	1920	1296	22190	24467	1900
	-20	1665	29049	32777	1920	1488	25579	28561	1890	1428	24447	27200	1880	1310	22217	24543	1860
	-15	1679	29007	32799	1880	1502	25572	28610	1850	1443	24451	27258	1840	1325	22242	24618	1820
	-10	1694	28963	32820	1850	1517	25564	28661	1820	1458	24456	27316	1810	1340	22268	24694	1790
	-5	1707	31848	36212	1830	1530	28090	31593	1800	1471	26866	30106	1790	1353	24458	27206	1770
	0	1723	37876	43171	1850	1546	33334	37578	1810	1487	31860	35784	1800	1369	28971	32297	1780
	5	1737	50160	57327	1920	1560	43894	49609	1870	1501	41879	47154	1850	1383	37954	42413	1820
10	1751	69608	79820	2040	1574	60311	68370	1960	1515	57365	64781	1940	1397	51685	57918	1890	
1 2 0 0 0	-54	1552	36264	40227	2290	1375	31502	34608	2250	1316	29959	32803	2230	1198	26934	29298	2200
	-35	1610	27908	31222	2030	1433	24481	27111	2000	1374	23362	25784	1990	1256	21158	23192	1970
	-30	1625	27931	31212	1990	1448	24531	27220	1960	1389	23421	25899	1950	1271	21234	23320	1930
	-25	1640	27938	31385	1950	1463	24567	27314	1920	1404	23466	26000	1910	1286	21297	23433	1890
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	-15	1669	27857	31423	1870	1492	24553	27408	1840	1433	23474	26111	1830	1315	21347	23577	1810
	-10	1684	28768	32533	1840	1506	25371	28388	1810	1447	24261	27050	1800	1329	22076	24438	1790
	-5	1698	30505	34597	1820	1521	26903	30185	1790	1462	25729	28763	1780	1344	23418	25990	1760
	0	1712	36084	41022	1840	1535	31761	35717	1800	1476	30357	34013	1790	1358	27602	30700	1770
	5	1727	47266	53878	1890	1550	41392	46664	1840	1491	39500	44365	1830	1372	35808	39920	1800
10	1741	64454	73702	1990	1564	55957	63266	1930	1505	53255	59983	1910	1387	48031	53689	1860	
1 2 0 0 0	-54	1542	34367	38015	2270	1364	29855	32710	2230	1305	28391	31005	2210	1187	25519	27689	2180
	-35	1599	26685	29739	2020	1422	23383	25820	1990	1363	22311	24554	1980	1244	20193	22074	1960
	-30	1614	26685	29821	1980	1436	23430	25921	1950	1377	22366	24661	1940	1259	20270	22198	1920
	-25	1628	26690	29887	1940	1451	23463	26008	1910	1392	22408	24754	1900	1274	20329	22304	1880
	-20	1643	26652	29904	1900	1466	23457	26052	1870	1407	22413	24806	1860	1289	20354	22373	1840
	-15	1657	26614	29921	1860	1480	23451	26095	1830	1421	22416	24858	1820	1303	20378	22440	1810
	-10	1672	27457	30945	1830	1494	24208	27000	1800	1435	23147	25726	1800	1317	21055	23236	1780
	-5	1686	29060	32844	1810	1509	25625	28656	1780	1450	24504	27305	1770	1332	22296	24668	1750
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1 8 0 0	-54	1531	32608	35991	2260	1354	28324	30970	2210	1294	26933	29355	2200	1176	24202	26210	2170
	-35	1587	25493	28365	2010	1410	22348	24622	1980	1351	21320	23411	1970	1233	19292	21044	1950
	-30	1602	25511	28441	1970	1425	22391	24716	1940	1366	21371	23512	1930	1248	19365	21161	1910
	-25	1617	25515	28502	1930	1439	22422	24797	1900	1380	21410	23599	1890	1262	19416	21256	1870
	-20	1631	25478	28517	1890	1454	22417	24838	1860	1395	21415	23648	1850	1277	19440	21320	1830
	-15	1645	25442	28532	1850	1468	22411	24878	1820	1409	21419	23696	1820	1291	19463	21384	1800
	-10	1660	26224	29479	1820	1482	23114	25717	1800	1423	22098	24500	1790	1305	20092	22123	1770
	-5	1674	27707	31231	1800	1497	24426	27247	1770	1438	23354	25960	1760	1319	21243	23446	1750
	0	1688	32413	36619	1810	1511	28532	31895	1770	1452	27269	30375	1760	1334	24785	27412	1740
	5	1702	41535	47042	1850	1525	36416	40804	1800	1466	34760	38809	1790	1348	31522	34940	1770
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1 6 0 0	-54	1520	30975	34117	2240	1342	26903	29357	2200	1283	25579	27824	2180	1165	22977	24836	2160
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	-30	1591	24400	27125	1960	1414	21409	23569	1930	1355	20430	22417	1920	1237	18500	20165	1900
	-25	1605	24404	27182	1920	1428	21438	23645	1890	1369	20468	22500	1880	1251	18553	20259	1860
	-20	1620	24368	27194	1880	1443	21433	23681	1850	1384	20472	22544	1840	1266	18576	20319	1830
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1 4 0 0	-54	1508	29460	32354	2220	1331	25582	27839	2180	1272	24319	26383	2170	1154	21837	23544	2150
	-35	1567	23320	25752	1990	1390	20432	22352	1960	1331	19486	21251	1950	1213	17620	19095	1930
	-30	1582	23335	25817	1950	1405	20470	22435	1920	1346	19532	21339	1910	1228	17681	19193	1890
	-25	1596	23338	25868	1910	1419	20498	22505	1880	1360	19568	21415	1870	1242	17732	19281	1860
	-20	1610	23304	25878	1870	1433	20493	22539	1840	1374	19572	21456	1840	1256	17754	19337	1820
	-15	1625	23272	25888	1830	1447	20488	22572	1810	1388	19576	21497	1800	1270	17776	19393	1780
	-10	1637	23862	26740	1800	1460	21109	23324	1780	1401	20174	22218	1770	1283	18330	20052	1750
	-5	1649	25261	28297	1780	1472	22257	24680	1750	1413	21273	23508	1750	1295	19333	21220	1730
	0	1663	29268	32855	1780	1486	25757	28619	1750	1427	24612	27253	1740	1309	223		

MODEL 525A

SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES
AND TAKEOFF CLIMB INCREMENT (TCI)
ANTI-ICE SYSTEMS ON

FLAPS - 0°
4,000 FEET

CONDITIONS: REFER TO PAGE PRECEDING THIS TABLE

WT LBS	TEMP DEG C	TAILWIND 10 KTS				ZERO WIND				HEADWIND 10 KTS				HEADWIND 30 KTS			
		1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT	1ST FT	2ND FT	3RD FT	TCI FT
1 0 0	-54	1486	26731	29208	2200	1309	23198	25123	2160	1249	22045	23804	2150	1131	19776	21226	2120
	-35	1550	21364	23377	1970	1373	18709	20295	1940	1314	17839	19295	1940	1195	16120	17333	1920
	-30	1563	21371	23427	1930	1386	18744	20367	1900	1327	17881	19372	1900	1209	16175	17420	1880
	-25	1578	21380	23477	1890	1401	18769	20428	1870	1342	17913	19438	1860	1224	16221	17497	1840
	-20	1592	21350	23481	1850	1415	18765	20455	1830	1356	17918	19472	1820	1238	16243	17546	1810
	-15	1606	21320	23485	1810	1429	18761	20481	1790	1370	17922	19506	1780	1252	16263	17593	1770
	-10	1618	21326	23494	1770	1441	18765	20512	1750	1382	17927	19540	1740	1263	16283	17643	1740
	-5	1629	21355	23505	1730	1452	18765	20543	1710	1393	17932	19574	1700	1274	16303	17693	1710
	0	1638	21385	23516	1690	1461	18765	20574	1670	1402	17937	19608	1660	1284	16323	17743	1680
	5	1652	21415	23527	1650	1475	18765	20605	1630	1416	17942	19642	1620	1298	16343	17793	1650
1 0 5 0 0	-54	1438	21076	22604	2140	1261	18261	19440	2110	1202	17339	18412	2100	1083	15519	16398	2080
	-35	1524	17169	18137	1930	1347	15036	15794	1910	1288	14335	15029	1900	1170	12946	13521	1890
	-30	1538	17176	18165	1890	1361	15061	15837	1870	1302	14365	15077	1860	1184	12988	13579	1850
	-25	1552	17176	18185	1850	1375	15079	15873	1830	1315	14389	15117	1820	1197	13024	13629	1810
	-20	1566	17153	18178	1810	1388	15077	15885	1800	1329	14394	15136	1780	1211	13042	13660	1780
	-15	1579	17130	18171	1770	1402	15075	15897	1760	1343	14399	15154	1740	1225	13060	13690	1740
	-10	1589	17161	18172	1730	1415	15073	15909	1720	1356	14400	15166	1700	1238	13078	13718	1700
	-5	1595	17169	18173	1690	1428	15071	15921	1680	1369	14401	15182	1660	1252	13096	13758	1660
	0	1609	20547	25999	1730	1432	20696	22641	1710	1373	19782	21553	1700	1255	19720	19423	1690
	5	1619	28734	31863	1740	1442	25199	27679	1710	1383	24047	26328	1710	1265	21779	23692	1690
1 0 0 0 0	-54	1438	21076	22604	2140	1261	18261	19440	2110	1202	17339	18412	2100	1083	15519	16398	2080
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	-20	1566	17153	18178	1810	1388	15077	15885	1800	1329	14394	15136	1780	1211	13042	13660	1780
	-15	1579	17130	18171	1770	1402	15075	15897	1760	1343	14399	15154	1740	1225	13060	13690	1740
	-10	1589	17161	18172	1730	1415	15073	15909	1720	1356	14400	15166	1700	1238	13078	13718	1700
	-5	1595	17169	18173	1690	1428	15071	15921	1680	1369	14401	15182	1660	1252	13096	13758	1660
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	5	1619	28734	31863	1740	1442	25199	27679	1710	1383	24047	26328	1710	1265	21779	23692	1690
9 5 0 0	-54	1425	18697	19967	2110	1248	16201	17179	2090	1189	15382	16272	2080	1071	13763	14490	2060
	-35	1511	15437	16222	1910	1334	13517	14130	1890	1275	12884	13445	1890	1157	11631	12095	1880
	-30	1525	15443	16245	1870	1348	13538	14166	1860	1289	12911	13486	1850	1170	11668	12145	1840
	-25	1538	15441	16260	1830	1361	13550	14192	1820	1302	12932	13521	1810	1184	11700	12188	1800
	-20	1552	15421	16252	1800	1375	13552	14206	1780	1316	12937	13536	1780	1198	11718	12217	1770
	-15	1566	15401	16245	1760	1389	13551	14216	1750	1330	12941	13552	1740	1212	11733	12242	1730
	-10	1575	15764	16892	1730	1398	13877	14610	1720	1339	13256	13930	1710	1221	12025	12587	1700
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	0	1573	18518	20040	1690	1396	16272	17474	1670	1337	15534	16638	1670	1219	14074	14996	1650
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9 0 0 0	-54	1411	16634	17474	2090	1234	14410	15055	2070	1175	13679	14265	2060	1057	12233	12710	2050
	-35	1497	13896	14331	1900	1320	12162	12500	1880	1261	11590	11900	1880	1143	10457	10712	1870
	-30	1511	13899	14345	1860	1334	12180	12528	1840	1275	11614	11931	1840	1157	10490	10752	1830
	-25	1525	13897	14352	1820	1347	12194	12549	1810	1288	11632	11957	1800	1170	10518	10787	1790
	-20	1538	13879	14341	1780	1361	12193	12554	1770	1302	11636	11968	1760	1184	10533	10808	1750
	-15	1552	13862	14330	1750	1375	12192	12559	1740	1316	11638	11975	1730	1197	10548	10828	1720
	-10	1561	14169	14700	1720	1384	12469	12887	1700	1325	11908	12292	1700	1207	10796	11115	1690
	-5	1567	14739	15383	1690	1390	12972	13479	1680	1330	12390	12855	1670	1212	11236	11623	1660
	0	1558	16472	17468	1670	1381	14472	15256	1660	1322	13814	14533	1650	1204	12510	13108	1640
	5	1541	19462	21063	1670	1364	17043	18300	1650	1305	16249	17402	1640	1187	14680	15638	1630
8 5 0 0	-54	1397	14824	15378	2070	1220	12837	13260	2050	1161	12183	12567	2050	1043	10887	11198	2030
	-35	1483	12512	12718	1890	1306	10944	11104	1870	1247	10427	10573	1870	1129	9402	9522	1860
	-30	1496	12514	12726	1850	1319	10960	11125	1830	1260	10447	10598	1830	1142	9429	9553	1820
	-25	1510	12512	12729	1810	1333	10972	11141	1790	1274	10463	10618	1790	1156	9454	9582	1780
	-20	1523	12496	12716	1770	1346	10971	11143	1760	1287	10468	10625	1750	1169	9469	9598	1750
	-15	1537	12481	12703	1740	1360	10970	11144	1720	1300	10472	10631	1720	1182	9482	9614	1710
	-10	1544	12741	13012	1710	1367	11206	11418	1690	1308	10699	10894	1690	1190	9694	9855	1680
	-5	1551	13224	13584	1680	1374	11633	11915	1670	1315	11108	11367	1660	1197	10067	10281	1650
	0	1542	14679	15325	1660	1365	12891	13398	1640	1306	12302	12767	1640	1188	11135	11520	1630
	5	1525	17143	18275	1650	1348	15009	15896	1630	1289	14308	15120	1630	1171	12920	13593	1620
10	1511	20045	21756	1640	1334	17497	18833	1620	1275	16661	17884	1620	1157	15010	16023	1600	

Figure 4-29 (Sheet 10)