

5.4 Takeoff, Climb, and Landing Performance (Continued):

TAKEOFF DISTANCE AT-502B with PT6A-34AG Engine Paved Runway

CONDITIONS:

- Takeoff Power (750 SHP Max) @ 2200 RPM
- Flaps 10° at 8,000 lbs and below
- Flaps 20° above 8,000 lbs
- Smooth Paved Runway, No Wind

AIRSPEEDS (KIAS)

WEIGHT (LBS)	LIFT-OFF	INITIAL CLIMB
5,000	55	63
6,000	59	68
8,000	70	80
9,400	75	86

Weight lbs	Press Alt ft	-15 deg. C		-5 deg. C		5 deg. C		15 deg. C		25 deg. C		35 deg. C		45 deg. C	
		Ground Roll (ft)	Total to Clr 50' (ft)	Ground Roll (ft)	Total to Clr 50' (ft)	Ground Roll (ft)	Total to Clr 50' (ft)	Ground Roll (ft)	Total to Clr 50' (ft)	Ground Roll (ft)	Total to Clr 50' (ft)	Ground Roll (ft)	Total to Clr 50' (ft)	Ground Roll (ft)	Total to Clr 50' (ft)
9400	0	1468	2779	1566	2938	1667	3100	1770	3265	1954	3630	2255	4292	2663	5250
9400	2000	1503	2835	1604	2998	1707	3164	1875	3490	2150	4088	2497	4882	2924	5907
9400	4000	1540	2895	1643	3061	1808	3383	2063	3929	2380	4644	2762	5544	3262	6797
9400	6000	1577	2955	1765	3336	2004	3849	2300	4511	2675	5395	3104	6444	--	--
9400	8000	1732	3319	1975	3845	2257	4477	2587	5244	3008	6275	3486	7489	--	--
8000	0	966	1713	1030	1812	1096	1914	1164	2017	1285	2241	1483	2645	1751	3227
8000	2000	988	1748	1054	1850	1122	1953	1233	2154	1413	2519	1642	3003	1923	3624
8000	4000	1012	1785	1080	1889	1189	2087	1356	2421	1565	2857	1816	3403	2145	4161
8000	6000	1037	1823	1160	2057	1318	2370	1512	2774	1759	3310	2041	3946	2386	4764
8000	8000	1139	2044	1298	2366	1484	2750	1701	3217	1978	3841	2292	4576	2708	5610
6000	0	609	1025	650	1085	692	1146	735	1209	811	1342	936	1582	1105	1926
6000	2000	624	1046	665	1108	708	1170	778	1290	892	1507	1036	1793	1213	2160
6000	4000	639	1069	682	1132	750	1250	856	1448	987	1706	1146	2029	1354	2475
6000	6000	655	1092	732	1231	832	1417	954	1656	1110	1973	1288	2348	1506	2828
6000	8000	719	1222	819	1413	936	1641	1074	1916	1248	2284	1446	2716	1709	3323
5000	0	455	742	486	786	517	830	549	876	606	972	699	1144	825	1391
5000	2000	466	757	497	802	529	848	581	934	666	1090	774	1296	906	1559
5000	4000	477	774	509	819	561	905	639	1048	738	1233	856	1465	1011	1784
5000	6000	489	790	547	891	621	1025	713	1197	829	1424	962	1693	1125	2036
5000	8000	537	884	612	1021	699	1185	802	1383	932	1647	1080	1956	1277	2389

CAUTION: Consult Maximum Takeoff Weight Chart before takeoff to ensure initial climb capability for current conditions.