

TAKEOFF FIELD LENGTH — FEET OVER 35 FOOT OBSTACLE

SEA LEVEL

CONDITIONS: Landing Gear — DOWN
 • Flaps must be 0°

Speed Brakes — RETRACT
 Operative Engine — TAKEOFF THRUST

Wing Flaps — T.O. & APPR OR UP
 Inoperative Engine — WINDMILLING after V₁

WEIGHT - 12500 LBS ALTITUDE - 3 FT V_{max} - 153 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	38	2373	32	2045	33	1853	34	1671	35	1499	36	1071
-20	38	2724	31	2084	32	1891	33	1707	34	1533	36	1071
-10	38	2798	31	2123	32	1928	33	1742	34	1566	36	1071
0	38	2813	31	2163	32	1965	33	1778	34	1600	36	1071
10	38	2857	31	2202	32	2002	33	1813	34	1633	36	1071
20	38	2901	31	2241	32	2040	33	1849	34	1667	36	1071
30	38	2945	31	2281	32	2077	33	1884	34	1701	36	1071
40	37	2990	31	2320	32	2114	33	1919	34	1735	36	1071
50	37	3033	31	2360	32	2151	33	1955	34	1768	36	1071
60	35	3150	31	2402	32	2246	33	2042	34	1848	36	1071
70	34	3274	32	2438	33	2400	34	2191	35	1986	37	1071
80	31	3261	33	2384	34	2303	35	2371	36	2152	38	1071
90	31	3261	35	2307	36	2253	37	2277	38	2143	38	1071
100	34	3255	36	2365	37	2308	38	2320	39	2185	100	1071
110	37	3259	38	2378	100	2468	101	3171	101	3232	103	1071
120	101	3773	102	4243	103	3908	103	3900	103	3232	103	1071
130	105	4153	105	4188	105	4835	105	4514	105	4201	105	112

WEIGHT - 12000 LBS ALTITUDE - 3 FT V_{max} - 150 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	36	2503	30	1904	30	1723	31	1550	32	1387	34	1051
-20	36	2545	29	1941	30	1758	31	1586	32	1419	34	1051
-10	36	2587	29	1977	30	1792	31	1618	32	1450	34	1051
0	35	2628	29	2013	30	1827	31	1649	32	1481	34	1051
10	35	2669	29	2049	30	1861	31	1682	32	1512	34	1051
20	35	2710	29	2085	30	1895	31	1715	32	1543	34	1051
30	35	2750	29	2121	30	1929	31	1747	32	1574	34	1051
40	35	2791	29	2157	30	1964	31	1780	32	1605	34	1051
50	35	2832	29	2192	30	1998	31	1812	32	1636	34	1051
60	35	2873	29	2227	30	2034	31	1845	32	1667	34	1051
70	36	2913	29	2264	30	2071	31	1878	32	1698	34	1051
80	36	2953	31	2301	32	2109	32	1912	33	1729	35	1051
90	39	2957	31	2337	31	2146	32	1946	33	1760	35	1051
100	30	3021	32	2373	33	2184	33	1980	34	1791	36	1051
110	34	3028	36	2394	36	2220	36	2014	100	3202	100	1051
120	37	3028	38	2412	38	2257	38	2048	102	3202	102	1051
130	102	3125	102	4857	102	4351	102	4053	102	3784	102	110

WEIGHT - 11500 LBS ALTITUDE - 3 FT V_{max} - 147 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	33	1754	37	1770	38	1598	39	1435	40	1281	32	1031
-20	33	1815	37	1803	38	1630	39	1468	40	1310	32	1031
-10	33	1876	37	1837	38	1662	39	1498	40	1339	32	1031
0	33	1899	37	1870	38	1694	39	1528	40	1367	32	1031
10	33	1967	37	1903	37	1725	38	1558	40	1396	32	1031
20	33	2028	36	1936	37	1757	38	1587	39	1425	32	1031
30	33	2089	36	1969	37	1789	38	1617	39	1454	32	1031
40	33	2150	36	2001	37	1820	38	1647	39	1482	32	1031
50	33	2211	36	2034	37	1852	38	1677	39	1510	32	1031
60	33	2272	37	2067	37	1884	38	1707	39	1538	32	1031
70	34	2333	37	2100	38	1915	39	1737	40	1566	32	1031
80	35	2394	38	2133	39	1946	40	1767	41	1594	34	1031
90	36	2455	39	2166	40	1977	41	1797	42	1622	36	1031
100	38	2468	41	2181	41	2008	42	1827	43	1650	37	1031
110	39	2472	42	2200	42	2038	43	1857	44	1678	37	1031
120	93	4244	95	3418	95	3132	96	2957	97	2797	97	1031
130	98	4837	97	3832	98	3516	98	3233	98	2982	98	1031

WEIGHT - 11000 LBS ALTITUDE - 3 FT V_{max} - 144 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	31	1278	35	1248	35	1068	36	903	37	738	30	1011
-20	31	1313	34	1277	36	1103	37	938	38	768	30	1011
-10	31	1348	34	1307	35	1138	36	968	37	798	30	1011
0	31	1383	34	1337	35	1173	36	998	37	828	30	1011
10	31	1418	34	1367	35	1208	36	1028	37	858	30	1011
20	31	1453	34	1397	35	1243	36	1058	37	888	30	1011
30	30	1488	34	1427	35	1278	36	1088	37	918	30	1011
40	30	1523	34	1457	35	1313	36	1118	37	948	30	1011
50	30	1558	34	1487	35	1348	36	1148	37	978	30	1011
60	30	1593	34	1517	35	1383	36	1178	37	1008	30	1011
70	31	1628	35	1547	36	1418	37	1208	38	1038	31	1011
80	31	1663	35	1577	36	1453	37	1238	38	1068	31	1011
90	31	1698	35	1607	36	1488	37	1268	38	1098	31	1011
100	34	1698	38	1622	38	1518	39	1298	39	1128	33	1011
110	37	1698	41	1637	41	1548	42	1328	42	1158	34	1011
120	93	3918	91	3056	92	2793	92	2548	93	2308	93	1011
130	91	4352	93	3418	94	3128	94	2883	95	2608	95	1011

WEIGHT - 10500 LBS ALTITUDE - 3 FT V_{max} - 140 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	29	1031	32	1028	34	1025	35	1022	36	1019	37	981
-20	29	1066	32	1063	34	1060	35	1057	36	1054	37	981
-10	29	1101	32	1098	34	1095	35	1092	36	1089	37	981
0	29	1136	32	1133	34	1130	35	1127	36	1124	37	981
10	29	1171	32	1168	34	1165	35	1162	36	1159	37	981
20	29	1206	32	1203	34	1200	35	1197	36	1194	37	981
30	29	1241	32	1238	34	1235	35	1232	36	1229	37	981
40	29	1276	32	1273	34	1270	35	1267	36	1264	37	981
50	29	1311	32	1308	34	1305	35	1302	36	1299	37	981
60	29	1346	32	1343	34	1340	35	1337	36	1334	37	981
70	29	1381	32	1378	34	1375	35	1372	36	1369	37	981
80	29	1416	32	1413	34	1410	35	1407	36	1404	37	981
90	29	1451	32	1448	34	1445	35	1442	36	1439	37	981
100	31	1486	34	1483	35	1480	36	1477	37	1474	38	981
110	34	1486	38	1491	39	1486	40	1481	41	1476	42	981
120	93	3255	95	2753	96	2521	97	2292	98	2070	98	981
130	97	3899	99	3025	100	2798	101	2516	101	2275	101	981

WEIGHT - 10000 LBS ALTITUDE - 3 FT V_{max} - 137 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	27	788	30	784	31	779	32	774	33	769	34	764
-20	27	823	30	819	31	814	32	809	33	804	34	764
-10	27	858	30	854	31	849	32	844	33	839	34	764
0	27	893	30	889	31	884	32	879	33	874	34	764
10	27	928	30	924	31	919	32	914	33	909	34	764
20	27	963	30	959	31	954	32	949	33	944	34	764
30	27	998	30	994	31	989	32	984	33	979	34	764
40	27	1033	30	10								

TAKEOFF FIELD LENGTH — FEET
 OVER 35 FOOT OBSTACLE

1000 FEET

CONDITIONS: Landing Gear — DOWN
 • Flaps must be 0°

Speed Brakes — RETRACT
 Operative Engine — TAKEOFF THRUST

Wing Flaps — T.O. & APPR or UP
 Inoperative Engine — WINDMILLING after V₁

WEIGHT - 1500 LBS ALTITUDE - 1000 FT V_{LO} - 153 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	38	1751	31	2108	32	1913	33	1778	34	1552	35	1071
-20	38	1736	31	2148	32	1951	33	1785	34	1587	35	1071
-10	38	1543	31	2189	32	1980	33	1801	34	1622	35	1071
0	38	1589	31	2230	32	2029	33	1838	34	1657	35	1071
10	38	1924	31	2271	32	2057	33	1875	34	1692	35	1071
20	37	1980	31	2311	32	2105	33	1911	34	1727	35	1071
30	37	1925	31	2252	32	2144	33	1948	34	1752	35	1071
40	37	1970	30	2293	32	2193	33	1985	34	1787	35	1071
50	38	1195	31	2487	32	2270	33	2064	34	1870	35	1071
60	39	1372	31	2840	32	2412	33	2195	34	1990	37	1071
70	39	1579	33	2843	34	2501	35	2370	36	2151	38	1071
80	32	1905	34	3077	35	2819	36	2572	37	2339	39	1071
90	34	4200	36	3343	37	3068	37	2803	38	2552	100	1071
100	36	4757	38	3703	39	3407	100	3120	100	2844	101	1071
110	39	5602	101	4150	102	3822	102	3508	102	3225	102	1071
120	45	7026	105	5050	105	4728	105	4414	105	4109	105	1121

WEIGHT - 1200 LBS ALTITUDE - 1000 FT V_{LO} - 150 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	30	1571	39	1982	30	1778	31	1603	32	1437	34	1051
-20	35	2513	39	2000	30	1814	31	1637	32	1469	34	1051
-10	35	2858	39	2037	30	1849	31	1671	32	1501	34	1051
0	35	2998	39	2075	30	1885	31	1705	32	1534	34	1051
10	35	2740	39	2112	30	1921	31	1739	32	1568	34	1051
20	35	2782	38	2149	30	1956	30	1773	31	1598	34	1051
30	35	2925	38	2186	30	1991	30	1808	31	1630	34	1051
40	35	2967	38	2223	30	2027	30	1840	31	1663	34	1051
50	35	2974	38	2310	30	2106	30	1913	31	1720	34	1051
60	36	3128	39	2443	30	2229	31	2026	32	1834	34	1051
70	37	3350	40	2518	31	2298	32	2173	33	1969	35	1051
80	39	3605	41	2824	32	2581	33	2351	34	2134	36	1051
90	31	3895	33	3061	34	2901	35	2555	35	2322	37	1051
100	32	4224	35	3338	35	3060	36	2798	37	2544	38	1051
110	35	4704	37	3724	38	3433	39	3140	39	2881	39	1051
120	38	5508	100	4202	101	3870	101	3585	101	3298	101	1051
130	40	5897	103	5119	103	4791	103	4471	103	4160	103	1101

WEIGHT - 1500 LBS ALTITUDE - 1000 FT V_{LO} - 147 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	33	1598	37	1824	38	1650	39	1484	40	1327	42	1001
-20	33	1438	37	1858	38	1682	39	1515	40	1357	42	1001
-10	33	1475	36	1892	37	1715	39	1546	40	1388	42	1001
0	33	1515	36	1927	37	1748	38	1578	39	1416	42	1001
10	33	1555	36	1960	37	1781	38	1609	39	1446	42	1001
20	33	1594	36	1994	37	1814	38	1640	39	1475	42	1001
30	33	1632	36	2028	37	1846	38	1672	39	1505	42	1001
40	32	1671	36	2062	37	1879	38	1703	39	1535	42	1001
50	33	1710	36	2140	37	1950	38	1788	39	1595	42	1001
60	34	1919	37	2291	38	2080	39	1970	40	1689	42	1001
70	35	2099	38	2408	38	2184	39	1993	40	1802	42	1001
80	36	2318	39	2583	40	2354	41	2141	42	1941	43	1001
90	38	2572	40	2794	41	2552	42	2324	42	2108	44	1001
100	39	2984	42	3042	42	2782	43	2537	44	2304	45	1001
110	41	3450	43	3343	44	3064	45	2798	45	2544	46	1001
120	44	4158	46	3756	47	3446	47	3151	48	2991	48	1001
130	47	5228	49	4222	49	3894	49	3613	49	3341	49	1001

WEIGHT - 1000 LBS ALTITUDE - 1000 FT V_{LO} - 144 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	31	1225	34	1395	36	1331	37	1174	38	1127	39	1011
-20	31	1277	34	1427	35	1361	36	1403	37	1254	38	1011
-10	31	1328	34	1458	35	1392	36	1432	37	1281	38	1011
0	31	1345	34	1490	35	1422	36	1461	37	1309	38	1011
10	30	1381	34	1521	35	1452	36	1490	37	1338	38	1011
20	30	1417	34	1553	35	1483	36	1519	37	1367	38	1011
30	30	2454	34	1884	35	1713	36	1647	37	1391	38	1011
40	30	2490	34	1915	35	1743	36	1676	37	1418	38	1011
50	30	2578	34	2086	35	1907	36	1838	37	1472	38	1011
60	31	2710	35	2091	35	1903	36	1724	37	1553	38	1011
70	32	2874	35	2222	36	2023	37	1824	38	1654	39	1011
80	33	3055	36	2367	37	2157	38	1957	39	1757	39	1011
90	34	3281	37	2547	38	2324	39	2112	40	1910	41	1011
100	36	3554	39	2766	39	2527	40	2299	41	2083	42	1011
110	38	3868	40	3021	41	2782	42	2518	42	2283	43	1011
120	40	4270	42	3353	43	3072	44	2803	44	2548	45	1011
130	43	4758	45	3760	46	3449	46	3168	46	2921	46	1011

WEIGHT - 1500 LBS ALTITUDE - 1000 FT V_{LO} - 140 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	29	1283	32	1573	33	1418	34	1271	35	1132	37	981
-20	29	1218	32	1602	33	1446	34	1297	35	1157	37	981
-10	29	1149	32	1631	33	1474	34	1324	35	1182	37	981
0	29	1193	32	1661	33	1502	34	1351	35	1207	37	981
10	29	1236	32	1690	33	1530	34	1377	35	1232	37	981
20	28	1249	32	1718	33	1558	34	1403	35	1257	37	981
30	28	1293	31	1747	33	1585	34	1430	35	1282	37	981
40	29	1335	31	1775	32	1613	34	1456	35	1307	37	981
50	29	1398	32	1840	33	1672	34	1511	35	1357	37	981
60	29	1513	32	1932	33	1757	34	1587	35	1427	38	981
70	30	1653	33	2046	34	1880	35	1682	35	1514	38	981
80	30	1821	33	2175	34	1980	35	1792	36	1614	38	981
90	32	2003	34	2320	35	2113	36	1917	37	1728	38	981
100	33	2240	36	2509	36	2287	37	2075	38	1874	39	981
110	35	2520	37	2722	38	2494	38	2287	39	2050	40	981
120	38	2840	39	2990	39	2724	40	2490	41	2284	41	981
130	40	3254	41	3325	42	3052	42	2783	43	2534	43	981

WEIGHT - 1000 LBS ALTITUDE - 1000 FT V_{LO} - 137 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	28	1037	30	1458	31	1311	32	1172	33	1041	35	961
-20	28	1067	30	1482	31	1336	32	1196	33	1064	35	961
-10	28	1098	30	1509	31	1362	32	1220	33	1087	35	961
0	28	1129	29	1538	31	1387	32	1245	33	1110	35	961
10	28	1160	29	1562	31	1412	32	1269	33	1133	35	961
20	28	1190	29	1589	30	1438	32	1293	33	1156	35	961
30	28	1219	29	1615	30	1463	31	1317	33	1179	35	961
40	28	1249	29	1642	30	1488	31	1341	32	12		

TAKEOFF FIELD LENGTH — FEET OVER 35 FOOT OBSTACLE

SEA LEVEL

CONDITIONS: Landing Gear — DOWN
● Flaps must be 0°

Speed Brakes — RETRACT
Operative Engine — TAKEOFF THRUST

Wing Flaps — T.O. & APPR or UP
Inoperative Engine — WINDMILLING after V₁

WEIGHT — 12500 LBS ALTIMITUDE — 0 FT V_{max} — 183 KIAS

TEMP DEG F	10 KTS		15 KTS		20 KTS		25 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	38	1373	32	2045	33	1853	34	1671	35	1499
-20	38	1724	31	2084	32	1891	33	1707	34	1533
-10	38	2078	31	2123	32	1928	33	1742	34	1566
0	38	2517	31	2163	32	1965	33	1788	34	1600
10	38	2957	31	2202	32	2002	33	1813	34	1633
20	38	3397	31	2242	32	2040	33	1849	34	1667
30	38	3837	31	2281	32	2077	33	1884	34	1701
40	38	4277	31	2320	32	2114	33	1919	34	1735
50	37	4717	31	2359	32	2151	33	1955	34	1768
60	37	5157	31	2398	32	2188	33	1991	34	1802
70	37	5597	31	2437	32	2225	33	2027	34	1836
80	37	6037	31	2476	32	2262	33	2063	34	1870
90	37	6477	31	2515	32	2299	33	2100	34	1904
100	37	6917	31	2554	32	2336	33	2136	34	1938
110	37	7357	31	2593	32	2373	33	2173	34	1972
120	37	7797	31	2632	32	2410	33	2209	34	2006
130	37	8237	31	2671	32	2447	33	2245	34	2040

WEIGHT — 12000 LBS ALTIMITUDE — 0 FT V_{max} — 180 KIAS

TEMP DEG F	10 KTS		15 KTS		20 KTS		25 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	38	1503	30	1904	30	1723	31	1550	32	1387
-20	38	1854	30	1941	30	1758	31	1584	32	1419
-10	38	2205	30	1977	30	1792	31	1616	32	1450
0	35	2557	30	2013	30	1827	31	1648	32	1481
10	35	2908	30	2049	30	1861	31	1682	32	1512
20	35	3259	30	2085	30	1895	31	1715	32	1543
30	35	3610	30	2121	30	1929	31	1747	32	1574
40	35	3961	30	2157	30	1964	30	1780	31	1605
50	35	4312	30	2192	30	1998	30	1813	31	1636
60	35	4663	30	2228	30	2032	30	1847	31	1667
70	35	5014	30	2264	30	2066	30	1881	31	1698
80	35	5365	30	2300	30	2100	30	1915	31	1729
90	35	5716	30	2336	30	2134	30	1949	31	1760
100	35	6067	30	2372	30	2168	30	1983	31	1791
110	35	6418	30	2408	30	2202	30	2017	31	1822
120	35	6769	30	2444	30	2236	30	2051	31	1853
130	35	7120	30	2480	30	2270	30	2085	31	1884

WEIGHT — 11500 LBS ALTIMITUDE — 0 FT V_{max} — 177 KIAS

TEMP DEG F	10 KTS		15 KTS		20 KTS		25 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	37	1324	37	1770	38	1598	39	1435	40	1281
-20	37	1675	37	1807	38	1635	39	1472	40	1318
-10	37	2026	37	1844	38	1672	39	1509	40	1355
0	37	2377	37	1881	38	1709	39	1546	40	1392
10	37	2728	37	1918	38	1746	39	1583	40	1429
20	37	3079	37	1955	38	1783	39	1620	40	1466
30	37	3430	37	1992	38	1820	39	1657	40	1503
40	37	3781	37	2029	38	1857	39	1694	40	1540
50	37	4132	37	2066	38	1894	39	1731	40	1577
60	37	4483	37	2103	38	1931	39	1768	40	1614
70	37	4834	37	2140	38	1968	39	1805	40	1651
80	37	5185	37	2177	38	2005	39	1842	40	1688
90	37	5536	37	2214	38	2042	39	1879	40	1725
100	37	5887	37	2251	38	2079	39	1916	40	1762
110	37	6238	37	2288	38	2116	39	1953	40	1799
120	37	6589	37	2325	38	2153	39	1990	40	1836
130	37	6940	37	2362	38	2190	39	2027	40	1873

WEIGHT — 11000 LBS ALTIMITUDE — 0 FT V_{max} — 174 KIAS

TEMP DEG F	10 KTS		15 KTS		20 KTS		25 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	37	1454	35	1848	36	1683	37	1528	38	1384
-20	37	1805	35	1885	36	1720	37	1565	38	1421
-10	37	2156	35	1922	36	1757	37	1602	38	1458
0	37	2507	35	1959	36	1794	37	1639	38	1495
10	37	2858	35	1996	36	1831	37	1676	38	1532
20	37	3209	35	2033	36	1868	37	1713	38	1569
30	37	3560	35	2070	36	1905	37	1750	38	1606
40	37	3911	35	2107	36	1942	37	1787	38	1643
50	37	4262	35	2144	36	1979	37	1824	38	1680
60	37	4613	35	2181	36	2016	37	1861	38	1717
70	37	4964	35	2218	36	2053	37	1898	38	1754
80	37	5315	35	2255	36	2090	37	1935	38	1791
90	37	5666	35	2292	36	2127	37	1972	38	1828
100	37	6017	35	2329	36	2164	37	2009	38	1865
110	37	6368	35	2366	36	2201	37	2046	38	1902
120	37	6719	35	2403	36	2238	37	2083	38	1939
130	37	7070	35	2440	36	2275	37	2120	38	1976

WEIGHT — 10500 LBS ALTIMITUDE — 0 FT V_{max} — 171 KIAS

TEMP DEG F	10 KTS		15 KTS		20 KTS		25 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	37	1255	35	1529	34	1375	35	1220	36	1083
-20	37	1606	35	1566	34	1412	35	1257	36	1120
-10	37	1957	35	1603	34	1449	35	1294	36	1157
0	37	2308	35	1640	34	1486	35	1331	36	1194
10	37	2659	35	1677	34	1523	35	1368	36	1231
20	37	3010	35	1714	34	1560	35	1405	36	1268
30	37	3361	35	1751	34	1597	35	1442	36	1305
40	37	3712	35	1788	34	1634	35	1479	36	1342
50	37	4063	35	1825	34	1671	35	1516	36	1379
60	37	4414	35	1862	34	1708	35	1553	36	1416
70	37	4765	35	1899	34	1745	35	1590	36	1453
80	37	5116	35	1936	34	1782	35	1627	36	1490
90	37	5467	35	1973	34	1819	35	1664	36	1527
100	37	5818	35	2010	34	1856	35	1701	36	1564
110	37	6169	35	2047	34	1893	35	1738	36	1601
120	37	6520	35	2084	34	1930	35	1775	36	1638
130	37	6871	35	2121	34	1967	35	1812	36	1675

WEIGHT — 10000 LBS ALTIMITUDE — 0 FT V_{max} — 168 KIAS

TEMP DEG F	10 KTS		15 KTS		20 KTS		25 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	37	1386	33	1414	33	1271	34	1134	35	1008
-20	37	1737	33	1451	33	1308	34	1171	35	1045
-10	37	2088	33	1488	33	1345	34	1208	35	1082
0	37	2439	33	1525	33	1382	34	1245	35	1119
10	37	2790	33	1562	33	1419	34	1282	35	1156
20	37	3141	33	1599	33	1456	34	1319	35	1193
30	37	3492	33	1636	33	1493	34	1356	35	1230
40	37	3843	33	1673	33	1530	34	1393	35	1267
50	37	4194	33	1710	33	1567	34	1430	35	1304
60	37	4545	33	1747	33	1604	34	1467	35	1341
70	37	4896	33	1784	33	1641	34	1504	35	1378
80	37	5247	33	1821	33	1678	34	1541	35	1415
90	37	5598	33	1858	33	1715	34	1578	35	1452
100	37	5949	33	1895	33	1752	34	1615	35	1489
110	37	6300	33	1932	33	1789	34	1652	35	1526
120	37	6651	33	1969	33	1826	34	1689	35	1563
130	37	7002	33	2006	33	1863	34	1726	35	1600

WEIGHT — 9500 LBS ALTIMITUDE — 0 FT V_{max} — 165 KIAS

TEMP DEG F	10 KTS		15 KTS		20 KTS		25 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-30	37	1156	33	1307	32	1173	33	1043	34	924
-20	37	1507	33	1344	32	1210	33	1080	34	961
-10	37	1858	33	1381	32	1247	33	1117	34	998
0	37	2209	33	1418	32	1284	33	1154	34	1035
10	37	2560	33	1455	32	1321	33	1191	34	1072
20										

P.O. Box 5184
Uvalde, Texas 78802-5184

CITY OFICIAL TAKEOFF FIELD LENGTH
for Cessna 501 Eagle II Aircraft with WII
FJ44-2A Engines Installed.

TAKEOFF FIELD LENGTH — FEET OVER 35 FOOT OBSTACLE

2000 FEET

CONDITIONS: Landing Gear — DOWN Speed Brakes — RETRACT Wing Flaps — T.O. & APPR or UP
● Flaps must be 0° Operative Engine — TAKEOFF THRUST Inoperative Engine — WINDMILLING after V₁

WEIGHT — 12500 LBS		ALTITUDE — 2000 FT										V _{max} — 153 KIAS	
TEMP DEG F	-10 KTS V ₁ DIST KIAS FT	0 KTS V ₁ DIST KIAS FT	WIND VELOCITY					V ₂ KIAS	V ₂ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS
			10 KTS	20 KTS	30 KTS	40 KTS	50 KTS						
-30	38 2925	31 2174	32 1976	33 1788	34 1609	36 107							
-20	38 2872	31 2218	32 2015	33 1825	34 1645	36 107							
-10	38 2921	31 2258	32 2055	33 1863	34 1681	36 107							
0	37 2869	31 2301	32 2095	33 1902	34 1717	36 107							
10	37 3015	31 2343	32 2135	33 1939	34 1753	36 107							
20	37 3061	30 2384	31 2175	32 1977	33 1789	36 107							
30	37 3109	30 2426	31 2215	32 2015	33 1825	36 107							
40	37 3213	30 2513	31 2295	32 2088	33 1893	36 107							
50	38 3396	31 2584	32 2435	33 2217	34 2012	37 107							
60	39 2817	32 2546	33 2505	34 2374	35 2157	38 107							
70	31 2895	34 3074	35 2519	36 2573	36 2540	38 107							
80	33 4211	35 3333	36 2061	37 2798	37 2549	39 107							
90	35 4675	37 3651	38 2258	39 3078	39 2807	101 107							
100	38 5641	100 4071	100 2752	101 2644	102 3147	102 107							
110	104 3897	104 4925	104 4611	104 4306	104 4009	104 112							

WEIGHT — 12000 LBS		ALTITUDE — 2000 FT										V _{max} — 150 KIAS	
TEMP DEG F	-10 KTS V ₁ DIST KIAS FT	0 KTS V ₁ DIST KIAS FT	WIND VELOCITY					V ₂ KIAS	V ₂ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS
			10 KTS	20 KTS	30 KTS	40 KTS	50 KTS						
-30	35 2540	39 2023	39 1936	31 1658	32 1489	34 105							
-20	35 2584	39 2082	39 1973	31 1693	32 1522	34 105							
-10	35 2728	39 2100	39 1910	31 1729	32 1558	34 105							
0	35 2772	38 2132	39 1947	30 1754	31 1589	34 105							
10	35 2915	38 2177	39 1983	30 1788	31 1623	34 105							
20	35 2958	38 2215	39 2020	30 1833	31 1658	34 105							
30	35 2992	38 2254	39 2058	30 1889	31 1699	34 105							
40	35 3000	38 2284	39 2122	30 1938	31 1752	34 105							
50	36 3165	39 2488	40 2353	31 2050	32 1856	34 105							
60	37 3249	39 2519	41 2393	31 2179	32 1975	35 105							
70	38 3595	41 2921	42 2580	33 2351	33 2134	36 105							
80	39 3879	42 3054	43 2798	34 2551	35 2321	37 105							
90	42 4201	44 3217	45 3043	35 2790	36 2532	38 105							
100	44 4625	46 3471	47 3377	37 3091	38 2817	39 105							
110	97 5359	99 4115	99 3750	100 3477	100 3197	100 105							
120	103 4790	103 5009	103 4688	103 4376	103 4073	103 110							

WEIGHT — 11500 LBS		ALTITUDE — 2000 FT										V _{max} — 147 KIAS	
TEMP DEG F	-10 KTS V ₁ DIST KIAS FT	0 KTS V ₁ DIST KIAS FT	WIND VELOCITY					V ₂ KIAS	V ₂ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS
			10 KTS	20 KTS	30 KTS	40 KTS	50 KTS						
-30	33 2467	38 1980	38 1915	30 1637	31 1468	32 103							
-20	33 2502	38 1945	37 1757	38 1567	39 1408	32 103							
-10	33 2548	38 1950	37 1771	38 1599	39 1437	32 103							
0	33 2584	38 1988	37 1805	38 1632	39 1468	32 103							
10	33 2624	38 2020	37 1839	38 1664	39 1498	32 103							
20	32 2664	38 2055	37 1872	38 1696	39 1529	32 103							
30	32 2724	38 2090	37 1906	38 1729	39 1559	32 103							
40	33 2784	38 2152	37 1972	38 1790	39 1616	32 103							
50	33 2843	37 2234	37 2083	38 1892	39 1710	32 103							
60	34 3105	37 2416	38 2204	39 2004	40 1813	32 103							
70	35 3213	38 2584	39 2359	40 2147	41 1945	33 103							
80	37 3565	39 2789	40 2548	41 2322	42 2106	34 103							
90	39 3851	41 3021	42 2795	42 2522	43 2293	35 103							
100	40 4197	42 3297	43 3021	44 2760	45 2511	36 103							
110	43 4667	45 3684	46 3284	48 3095	47 2821	37 103							
120	98 5197	98 4146	98 3814	99 3515	99 3251	99 103							
130	101 4596	101 5057	101 4732	101 4415	101 4107	101 108							

WEIGHT — 11000 LBS		ALTITUDE — 2000 FT										V _{max} — 144 KIAS	
TEMP DEG F	-10 KTS V ₁ DIST KIAS FT	0 KTS V ₁ DIST KIAS FT	WIND VELOCITY					V ₂ KIAS	V ₂ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS
			10 KTS	20 KTS	30 KTS	40 KTS	50 KTS						
-30	31 2395	44 1747	44 1680	36 1421	37 1271	38 101							
-20	31 2333	34 1779	35 1512	36 1451	37 1299	38 101							
-10	30 2371	34 1812	35 1643	36 1481	37 1329	38 101							
0	30 2409	34 1845	35 1675	36 1511	37 1358	38 101							
10	30 2448	34 1877	35 1708	36 1541	37 1384	38 101							
20	30 2483	34 1909	35 1737	36 1570	37 1412	38 101							
30	30 2520	34 1941	35 1768	36 1600	37 1442	38 101							
40	30 2602	34 2009	35 1829	36 1658	37 1481	38 101							
50	31 2724	34 2113	35 1925	36 1745	37 1571	38 101							
60	32 2881	35 2231	36 2034	37 1845	38 1665	38 101							
70	33 3080	36 2374	36 2165	37 1988	38 1777	38 101							
80	34 3272	37 2545	37 2323	38 2112	38 1911	38 101							
90	35 3527	38 2751	39 2514	39 2298	40 2075	38 101							
100	37 3828	39 2994	40 2723	41 2497	42 2257	38 101							
110	39 4181	41 3292	42 3007	42 2746	43 2494	38 101							
120	92 4685	94 3691	94 3385	95 3098	95 2838	95 101							
130	95 5214	97 4149	97 3823	97 3548	97 3278	97 101							

WEIGHT — 10500 LBS		ALTITUDE — 2000 FT										V _{max} — 140 KIAS	
TEMP DEG F	-10 KTS V ₁ DIST KIAS FT	0 KTS V ₁ DIST KIAS FT	WIND VELOCITY					V ₂ KIAS	V ₂ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS
			10 KTS	20 KTS	30 KTS	40 KTS	50 KTS						
-30	29 2333	32 1921	33 1864	34 1314	35 1172	37 98							
-20	29 2172	32 1951	33 1893	34 1341	35 1198	37 98							
-10	29 2227	32 1981	33 1922	34 1369	35 1224	37 98							
0	29 2241	32 1711	33 1551	34 1397	35 1251	37 98							
10	29 2275	31 1740	33 1579	34 1424	35 1273	37 98							
20	29 2310	31 1770	32 1607	34 1451	35 1302	37 98							
30	29 2344	31 1800	32 1635	34 1478	35 1323	37 98							
40	29 2420	31 1860	32 1692	33 1529	35 1375	37 98							
50	29 2538	32 1953	33 1777	34 1607	35 1444	38 98							
60	29 2665	32 2056	33 1871	34 1694	35 1525	38 98							
70	30 2825	33 2193	34 1988	35 1801	36 1623	38 98							
80	31 3054	34 2325	35 2119	36 1922	37 1734	38 98							
90	32 3221	35 2498	36 2279	37 2069	37 1870	39 98							
100	34 3487	36 2711	37 2475	38 2252	38 2039	40 98							
110	36 3794	38 2958	39 2705	39 2465	40 2224	41 98							
120	38 4179	40 3273	41 2999	41 2735	42 2483	42 98							
130	41 4450	42 3669	43 3383	43 3084	43 2841	43 98							

WEIGHT — 10000 LBS		ALTITUDE — 2000 FT										V _{max} — 137 KIAS	
TEMP DEG F	-10 KTS V ₁ DIST KIAS FT	0 KTS V ₁ DIST KIAS FT	WIND VELOCITY					V ₂ KIAS	V ₂ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS	V ₁ KIAS
			10 KTS	20 KTS	30 KTS	40 KTS	50 KTS						
-30	27 1987	30 1489	31 1352	32 1211	33 1073	35 96							
-20	27 2019	28 1527	31 1379	32 1236	33 1128	35 96							
-10	27 2050	29 1554	31 1405	32 1262	33 1158	35 96							
0	27 2082	29 1582	30 1431	32 1297	33 1185	35 96							
10	27 2112	29 1609	30 1457	31 1312	33 1172	35 96							
20	27 2142	29 1637	30 1483	31 1337	32 1197	35 96							
30	27 2175	29 1664	30 1509	31 1361	32 1221	35 96							
40	27 2244	29 1719	30 1560	31 1408	32 1253	35 96							
50	27 2251</												

TAKEOFF FIELD LENGTH — FEET
OVER 35 FOOT OBSTACLE

3000 FEET

CONDITIONS: Landing Gear — DOWN
• Flaps must be 0°

Speed Brakes — RETRACT
Operative Engine — TAKEOFF THRUST

Wing Flaps — T.O. & APPR or UP
Inoperative Engine — WINDMILLING after V₁

WEIGHT - 13500 LBS ALTITUDE - 3000 FT V_{max} - 153 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-20	38	1305	31	1244	32	1242	33	1240	34	1238	36	107
-20	38	1305	31	1244	32	1242	33	1240	34	1238	36	107
-10	37	1093	31	1031	32	1029	33	1027	34	1025	36	107
0	37	1093	31	1031	32	1029	33	1027	34	1025	36	107
10	37	1093	31	1031	32	1029	33	1027	34	1025	36	107
20	37	1144	30	1074	31	1072	32	1070	33	1068	36	107
30	37	1245	30	1175	31	1173	32	1171	33	1169	36	107
40	38	1424	31	1354	32	1352	33	1350	34	1348	36	107
50	39	1644	32	1574	33	1572	34	1570	35	1568	36	107
60	41	1892	33	1822	34	1820	35	1818	36	1816	36	107
70	43	2199	35	2129	36	2127	37	2125	38	2123	36	107
80	46	2573	38	2503	39	2501	40	2499	41	2497	36	107
90	50	3027	42	2957	43	2955	44	2953	45	2951	36	107
100	55	3571	48	3501	49	3499	50	3497	51	3495	36	107
110	61	4225	55	4155	56	4153	57	4151	58	4149	36	107
120	68	4999	64	4929	65	4927	66	4925	67	4923	36	107

WEIGHT - 12000 LBS ALTITUDE - 3000 FT V_{max} - 150 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-20	35	2714	29	2687	30	2687	31	2687	32	2687	32	105
-20	35	2758	29	2727	30	2727	31	2727	32	2727	32	105
-10	35	2504	28	2487	29	2487	30	2487	31	2487	31	105
0	35	2549	28	2532	29	2532	30	2532	31	2532	31	105
10	35	2594	28	2577	29	2577	30	2577	31	2577	31	105
20	35	2638	28	2621	29	2621	30	2621	31	2621	31	105
30	35	2683	28	2666	29	2666	30	2666	31	2666	31	105
40	36	2727	29	2710	30	2710	31	2710	32	2710	31	105
50	37	2771	30	2754	31	2754	32	2754	33	2754	31	105
60	38	2815	31	2798	32	2798	33	2798	34	2798	31	105
70	39	2859	32	2842	33	2842	34	2842	35	2842	31	105
80	41	2903	33	2886	34	2886	35	2886	36	2886	31	105
90	43	2947	35	2930	36	2930	37	2930	38	2930	31	105
100	46	2991	38	2974	39	2974	40	2974	41	2974	31	105
110	50	3035	42	3018	43	3018	44	3018	45	3018	31	105
120	55	3079	48	3062	49	3062	50	3062	51	3062	31	105

WEIGHT - 11500 LBS ALTITUDE - 3000 FT V_{max} - 147 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-20	32	1530	26	1493	27	1493	28	1493	29	1493	32	103
-20	32	1574	26	1537	27	1537	28	1537	29	1537	32	103
-10	32	1312	26	1275	27	1275	28	1275	29	1275	32	103
0	32	1356	26	1319	27	1319	28	1319	29	1319	32	103
10	32	1399	26	1362	27	1362	28	1362	29	1362	32	103
20	32	1443	26	1406	27	1406	28	1406	29	1406	32	103
30	32	1487	26	1450	27	1450	28	1450	29	1450	32	103
40	33	1531	27	1494	28	1494	29	1494	30	1494	32	103
50	34	1575	28	1538	29	1538	30	1538	31	1538	32	103
60	35	1619	29	1582	30	1582	31	1582	32	1582	32	103
70	36	1663	30	1626	31	1626	32	1626	33	1626	32	103
80	37	1707	31	1670	32	1670	33	1670	34	1670	32	103
90	38	1751	32	1714	33	1714	34	1714	35	1714	32	103
100	40	1795	34	1758	35	1758	36	1758	37	1758	32	103
110	43	1839	37	1802	38	1802	39	1802	40	1802	32	103
120	47	1883	41	1846	42	1846	43	1846	44	1846	32	103

WEIGHT - 10000 LBS ALTITUDE - 3000 FT V_{max} - 144 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-20	31	1358	24	1321	25	1321	26	1321	27	1321	30	101
-20	31	1402	24	1365	25	1365	26	1365	27	1365	30	101
-10	31	1146	24	1109	25	1109	26	1109	27	1109	30	101
0	31	1190	24	1153	25	1153	26	1153	27	1153	30	101
10	31	1234	24	1197	25	1197	26	1197	27	1197	30	101
20	31	1278	24	1241	25	1241	26	1241	27	1241	30	101
30	31	1322	24	1285	25	1285	26	1285	27	1285	30	101
40	32	1366	25	1329	26	1329	27	1329	28	1329	30	101
50	33	1410	26	1373	27	1373	28	1373	29	1373	30	101
60	34	1454	27	1417	28	1417	29	1417	30	1417	30	101
70	35	1498	28	1461	29	1461	30	1461	31	1461	30	101
80	36	1542	29	1505	30	1505	31	1505	32	1505	30	101
90	37	1586	30	1549	31	1549	32	1549	33	1549	30	101
100	38	1630	31	1593	32	1593	33	1593	34	1593	30	101
110	40	1674	33	1637	34	1637	35	1637	36	1637	30	101
120	44	1718	37	1681	38	1681	39	1681	40	1681	30	101

WEIGHT - 8500 LBS ALTITUDE - 3000 FT V_{max} - 140 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-20	29	1158	22	1121	23	1121	24	1121	25	1121	37	99
-20	29	1202	22	1165	23	1165	24	1165	25	1165	37	99
-10	29	942	22	905	23	905	24	905	25	905	37	99
0	29	986	22	949	23	949	24	949	25	949	37	99
10	29	1030	22	993	23	993	24	993	25	993	37	99
20	29	1074	22	1037	23	1037	24	1037	25	1037	37	99
30	29	1118	22	1081	23	1081	24	1081	25	1081	37	99
40	30	1162	23	1125	24	1125	25	1125	26	1125	37	99
50	31	1206	24	1169	25	1169	26	1169	27	1169	37	99
60	32	1250	25	1213	26	1213	27	1213	28	1213	37	99
70	33	1294	26	1257	27	1257	28	1257	29	1257	37	99
80	34	1338	27	1301	28	1301	29	1301	30	1301	37	99
90	35	1382	28	1345	29	1345	30	1345	31	1345	37	99
100	36	1426	29	1389	30	1389	31	1389	32	1389	37	99
110	38	1470	31	1433	32	1433	33	1433	34	1433	37	99
120	41	1514	35	1477	36	1477	37	1477	38	1477	37	99

WEIGHT - 7000 LBS ALTITUDE - 3000 FT V_{max} - 137 KIAS

TEMP DEG F	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V ₀ KIAS	V ₁ KIAS
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT		
-20	27	1040	20	1003	21	1003	22	1003	23	1003	35	97
-20	27	1084	20	1047	21	1047	22	1047	23	1047	35	97
-10	27	824	20	787	21	787	22	787	23	787	35	97
0	27	868	20	831	21	831	22	831	23	831	35	97
10	27	912	20	875	21	875	22	875	23	875	35	97
20	27	956	20	919	21	919	22	919	23	919	35	97
30	27	1000	20	963	21	963	22	963	23	963	35	97
40	28	1044	21	1007	22	1007	23	1007	24	1007	35	97
50	29	1088	22	1051	23	1051	24	1051	25	1051	35	97
60	30	1132	23	1095	24	1095	25	1095	26	1095	35	97
70	31	1176	24	1139	25	1139	26	1139	27	1139	35	97
80	32	1220	25	1183	26	1183	27	1183	28	1183	35	97
90	33	1264	26	1227	27	1227	28	1227	29	1227	35	97
100	34	1308	27	1271								

WINDMILLING, ETC.
P.O. Box 5184
Uvalde, Texas 78802-5184

UN-OFFICIAL TAKEOFF FIELD LENGTH
for Cessna 501 Eagle II Aircraft with WII
FJ44-2A Engines Installed.

TAKEOFF FIELD LENGTH — FEET
OVER 35 FOOT OBSTACLE

4000 FEET

CONDITIONS: Landing Gear — DOWN
• Flaps must be 0°

Speed Brakes — RETRACT
Operative Engine — TAKEOFF THRUST

Wing Flaps — T.O. & APPR or UP
Inoperative Engine — WINDMILLING after V₁

WEIGHT — 13500 LBS		ALTITUDE — 4000 FT										V _{LO} — 153 KIAS	
TEMP DEG F	WIND VELOCITY	10 KTS		15 KTS		20 KTS		25 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS
		V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS		
-20	37	1938	31	2317	32	2110	33	1916	34	1731	36	107	
-20	37	2038	31	2382	32	2154	33	1956	34	1789	36	107	
-10	37	2089	30	2407	31	2197	32	1997	33	1808	36	107	
3	37	2137	30	2452	31	2240	32	2038	33	1847	36	107	
10	37	2192	30	2499	31	2285	32	2081	33	1887	36	107	
20	37	2255	30	2579	31	2359	32	2149	33	1951	36	107	
30	36	2458	31	2721	32	2491	33	2271	34	2083	37	107	
40	39	2675	32	2902	33	2580	34	2427	34	2208	37	107	
50	31	2921	33	3105	34	2850	35	2595	35	2371	38	107	
60	32	3193	34	3320	35	3081	36	2901	36	2554	39	107	
70	34	3482	35	3611	36	3323	37	3047	38	2793	100	107	
80	36	3324	38	2987	39	3679	39	3383	100	2094	101	107	
90	39	3195	101	3433	101	4098	102	3772	102	2459	102	107	
100	104	3524	105	3431	105	4979	105	4659	105	4348	105	112	

WEIGHT — 12000 LBS		ALTITUDE — 4000 FT										V _{LO} — 150 KIAS	
TEMP DEG F	WIND VELOCITY	10 KTS		15 KTS		20 KTS		25 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS
		V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS		
-20	35	2790	38	2154	39	1961	40	1777	41	1602	44	105	
-20	35	2837	38	2195	39	2000	40	1814	41	1638	44	105	
-10	35	2883	38	2236	39	2039	40	1852	41	1673	44	105	
0	35	2930	38	2278	39	2079	40	1889	41	1709	44	105	
10	35	2981	38	2322	39	2121	40	1929	41	1746	44	105	
20	35	3069	38	2375	39	2188	40	1992	41	1805	44	105	
30	36	3227	39	2528	39	2309	40	2103	41	1907	44	105	
40	36	3403	39	2671	40	2443	41	2225	42	2021	45	105	
50	39	2622	50	2853	51	2612	52	2583	53	2556	55	105	
60	39	2869	51	3056	52	2802	53	2559	54	2529	56	105	
70	31	3172	53	3205	54	3038	54	2779	55	2521	57	105	
80	32	3517	54	3590	55	3202	56	3025	56	2781	58	105	
90	35	3181	97	3390	97	3980	98	3278	99	2689	99	105	
100	38	3078	100	3467	100	4124	101	3796	101	2497	101	105	
110	103	3505	103	3378	103	5043	103	4717	103	4408	103	110	

WEIGHT — 11500 LBS		ALTITUDE — 4000 FT										V _{LO} — 147 KIAS	
TEMP DEG F	WIND VELOCITY	10 KTS		15 KTS		20 KTS		25 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS
		V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS		
-20	33	2501	38	1999	37	1819	38	1684	39	1479	42	103	
-20	33	2544	38	2037	37	1854	38	1679	39	1512	42	103	
-10	32	2597	38	2075	37	1891	38	1714	39	1545	42	103	
3	32	2720	38	2112	37	1927	38	1748	39	1578	42	103	
10	32	2777	38	2153	37	1965	38	1795	39	1612	42	103	
20	32	2857	38	2219	37	2027	38	1842	39	1665	42	103	
30	33	3001	38	2337	37	2124	38	1941	39	1757	42	103	
40	34	3152	37	2469	38	2255	39	2053	39	1860	42	103	
50	35	3240	37	2513	38	2288	39	2178	39	1974	43	103	
60	36	3358	39	2793	39	2555	40	2350	41	2116	43	103	
70	38	3820	40	3015	41	2753	41	2522	42	2295	44	103	
80	39	4141	41	3272	42	3001	43	2743	43	2500	45	103	
90	31	4506	43	3574	44	3284	44	3008	45	2743	46	103	
100	34	4937	38	3990	39	3675	37	3371	37	3079	37	103	
110	37	5590	38	4484	39	4138	39	3816	39	3539	39	103	
120	101	5238	101	3445	101	5104	101	4772	101	4449	101	108	

WEIGHT — 11000 LBS		ALTITUDE — 4000 FT										V _{LO} — 144 KIAS	
TEMP DEG F	WIND VELOCITY	10 KTS		15 KTS		20 KTS		25 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS
		V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS		
-20	30	2424	34	1857	35	1687	36	1522	37	1369	40	101	
-20	30	2464	34	1892	35	1729	36	1554	37	1397	40	101	
-10	30	2504	34	1927	35	1754	36	1586	37	1427	40	101	
3	30	2544	33	1961	34	1787	36	1618	37	1458	40	101	
10	30	2589	33	1999	34	1822	35	1652	36	1490	40	101	
20	30	2662	33	2059	34	1878	35	1704	36	1538	40	101	
30	31	2730	34	2152	35	1973	36	1731	37	1573	40	101	
40	31	2824	34	2279	35	2080	36	1890	37	1709	40	101	
50	32	2955	35	2410	36	2201	37	2001	38	1811	40	101	
60	33	3259	36	2581	37	2331	37	2122	38	1923	41	101	
70	34	3509	37	2748	38	2511	39	2299	39	2077	41	101	
80	36	3799	38	2973	39	2722	40	2484	40	2259	42	101	
90	38	4101	40	3229	40	2960	41	2705	42	2463	43	101	
100	30	4503	42	3583	42	3273	43	2995	44	2730	44	101	
110	33	5007	44	3992	45	3672	45	3365	46	3092	46	101	
120	98	5177	38	4873	38	4563	38	4257	38	3760	34	105	

WEIGHT — 10500 LBS		ALTITUDE — 4000 FT										V _{LO} — 140 KIAS	
TEMP DEG F	WIND VELOCITY	10 KTS		15 KTS		20 KTS		25 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS
		V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS		
-20	28	2288	32	1722	33	1592	34	1407	35	1290	37	98	
-20	28	2333	31	1755	32	1632	34	1436	35	1299	37	98	
-10	28	2323	31	1787	32	1623	33	1466	35	1316	37	98	
3	28	2368	31	1819	32	1653	33	1495	34	1344	37	98	
10	28	2407	31	1853	32	1686	33	1525	34	1373	37	98	
20	28	2475	31	1908	32	1738	33	1574	34	1417	37	98	
30	28	2539	32	1999	33	1822	34	1651	34	1488	38	98	
40	29	2714	32	2101	33	1916	34	1737	35	1587	38	98	
50	30	2840	33	2217	33	2021	34	1834	35	1656	38	98	
60	30	3017	33	2343	34	2138	35	1942	36	1755	38	98	
70	31	3209	34	2497	35	2281	36	2074	36	1877	39	98	
80	33	3431	35	2692	35	2481	37	2241	37	2031	39	98	
90	34	3720	37	3018	37	2670	38	2435	39	2211	40	98	
100	36	4057	38	3193	39	2916	39	2664	40	2422	41	98	
110	38	4443	40	3538	41	3249	42	2970	42	2705	42	98	
120	31	5011	33	3983	34	3681	34	3267	34	3111	34	98	
130	36	5385	36	4880	36	4562	36	4253	36	3953	36	103	

WEIGHT — 10000 LBS		ALTITUDE — 4000 FT										V _{LO} — 137 KIAS	
TEMP DEG F	WIND VELOCITY	10 KTS		15 KTS		20 KTS		25 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS
		V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS	V ₁ DIST FT	V ₁ KIAS		
-20	25	2095	29	1593	30	1441	31	1290	33	1158	35	96	
-20	25	2129	29	1622	30	1489	31	1322	32	1184	35	96	
-10	25	2162	29	1652	30	1497	31	1350	32	1209	35	96	
3	25	2195	29	1681	30	1525	31	1377	32	1235	35	96	
10	25	2232	29	1713	30	1555	31	1405	32	1252	35	96	
20	25	2295	29	1754	30	1602	31	1449	32	1282	35	96	
30	26	2400	29	1847	30	1690	31	1519	32	1356	35	96	
40	26	2513	30	1937	31	1783	32	1595	33	1436	35	96	
50	27	2638	30	2037	31	1855	32	1679	33	1511	36	96	
60	28	2777	31	2149	32	1957	32	1773	33	1599	36	96	
70	29	2947	31	2284	32								

P.O. Box 5184
Uvalde, Texas 78802-5184

UN-OFFICIAL TAKEOFF FIELD LENGTH
for Cessna 501 Eagle II Aircraft with WII
FJ44-2A Engines Installed.

TAKEOFF FIELD LENGTH — FEET
OVER .35 FOOT OBSTACLE

5000 FEET

CONDITIONS: Landing Gear — DOWN
• Flaps must be 0°

Speed Brakes — RETRACT
Operative Engine — TAKEOFF THRUST

Wing Flaps — T.O. & APPR or UP
Inoperative Engine — WINDMILLING after V₁

WEIGHT — 13500 LBS ALTITUDE — 5000 FT V_{max} — 153 KIAS

TEMP DEG °	10 KTS		20 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS				
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT						
-30	37	2076	30	2395	31	2185	32	1988	33	1797	34	1617
-20	37	2128	30	2441	31	2235	32	2027	33	1837	34	1657
-10	37	2183	30	2490	31	2275	32	2072	33	1879	34	1697
0	37	2275	30	2570	31	2350	32	2140	33	1943	34	1747
10	38	2384	30	2682	31	2438	32	2220	33	2017	34	1807
20	38	2502	31	2781	32	2520	33	2307	34	2098	35	1877
30	39	2713	32	2937	32	2594	33	2460	34	2258	35	1947
40	39	2955	33	3108	34	2682	34	2626	35	2401	36	1997
50	42	3225	34	3382	35	2802	35	2822	36	2583	37	2077
60	43	3465	35	3615	36	2928	37	3054	37	2790	38	2167
70	45	3737	37	3963	38	3067	39	3283	39	2979	40	2267
80	48	4120	40	4382	40	3264	40	3542	41	3233	42	2367
90	51	4520	43	4828	43	3540	43	3924	44	3618	45	2517
100	55	5055	47	5321	47	3900	47	4380	48	4050	49	2807

WEIGHT — 12000 LBS ALTITUDE — 5000 FT V_{max} — 150 KIAS

TEMP DEG °	10 KTS		20 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS				
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT						
-30	35	2072	38	2223	39	2029	30	1841	31	1663	34	1503
-20	35	2020	38	2258	39	2089	30	1880	31	1700	34	1543
-10	35	2073	38	2313	39	2112	30	1921	31	1759	34	1583
0	35	2080	38	2387	39	2180	30	1984	31	1819	34	1623
10	35	2159	38	2470	39	2258	30	2058	31	1895	34	1663
20	35	2289	38	2583	39	2344	30	2138	31	1975	34	1703
30	35	2439	39	2704	40	2475	31	2257	32	2103	35	1743
40	37	2654	40	2884	41	2542	32	2311	33	2188	36	1783
50	39	2900	41	3085	42	2631	33	2388	34	2268	37	1823
60	40	3169	42	3308	43	2740	34	2482	35	2363	38	1863
70	42	3457	44	3588	44	2882	35	2597	36	2473	39	1903
80	44	3764	46	3931	47	3054	37	2811	38	2603	40	1943
90	47	4097	49	4305	49	3264	40	3047	41	2753	42	1983
100	51	4457	53	4722	53	3540	44	3327	45	2923	46	2023

WEIGHT — 11500 LBS ALTITUDE — 5000 FT V_{max} — 147 KIAS

TEMP DEG °	10 KTS		20 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS				
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT						
-30	32	2075	38	2065	37	1981	29	1764	29	1535	32	1403
-20	32	2120	38	2103	37	1919	28	1713	29	1589	32	1443
-10	32	2170	38	2145	37	1958	28	1777	29	1605	32	1483
0	32	2249	38	2212	37	2019	28	1834	29	1658	32	1523
10	33	2339	38	2297	37	2089	28	1900	29	1719	32	1563
20	33	2440	38	2371	37	2167	28	1972	29	1797	32	1603
30	34	2557	37	2500	38	2295	28	2081	29	1887	32	1643
40	35	2702	37	2643	38	2417	29	2203	30	2000	33	1683
50	36	2869	38	2822	39	2583	30	2357	31	2142	33	1723
60	37	3030	39	3022	40	2770	31	2523	32	2302	34	1763
70	39	3213	41	3259	42	3001	32	2744	33	2502	35	1803
80	40	3417	42	3511	43	3255	34	2990	34	2729	36	1843
90	42	3643	44	3783	45	3536	36	3236	36	3048	37	1883
100	45	3902	47	4074	48	3847	38	3547	39	3453	39	1923
110	49	4200	51	4391	51	4189	41	3923	42	3813	42	1963

WEIGHT — 11000 LBS ALTITUDE — 5000 FT V_{max} — 144 KIAS

TEMP DEG °	10 KTS		20 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS				
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT						
-30	30	2095	34	1918	35	1744	30	1577	31	1418	34	1301
-20	30	2038	33	1953	35	1778	30	1610	31	1450	34	1341
-10	30	2082	33	1992	34	1815	30	1645	31	1483	34	1381
0	30	2154	33	2052	34	1871	30	1697	31	1531	34	1421
10	30	2254	33	2119	35	1934	30	1759	31	1586	34	1461
20	31	2375	34	2193	35	2003	30	1820	31	1645	34	1501
30	31	2506	34	2268	35	2085	31	1917	32	1715	34	1541
40	32	2657	35	2348	36	2227	32	2027	33	1836	35	1581
50	33	2828	36	2500	37	2397	33	2148	34	1948	36	1621
60	34	3019	37	2674	38	2592	34	2298	35	2087	37	1661
70	35	3230	38	2874	39	2824	35	2487	36	2252	38	1701
80	37	3469	39	3125	40	3097	37	2703	38	2464	39	1741
90	39	3738	41	3397	42	3401	39	2957	40	2697	41	1781
100	42	4028	44	3692	45	3747	42	3243	43	2959	43	1821
110	46	4348	48	4014	49	4072	46	3574	47	3249	47	1861
120	50	4698	52	4373	53	4435	50	3938	51	3568	51	1901

WEIGHT — 10500 LBS ALTITUDE — 5000 FT V_{max} — 140 KIAS

TEMP DEG °	10 KTS		20 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS				
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT						
-30	28	2071	31	1978	32	1814	24	1437	25	1308	28	1203
-20	28	2138	31	2011	32	1846	24	1447	25	1328	28	1243
-10	28	2201	31	2047	32	1880	24	1457	25	1347	28	1283
0	28	2289	31	2092	32	1919	24	1471	25	1367	28	1323
10	28	2392	31	2147	32	1962	24	1486	25	1386	28	1363
20	29	2511	31	2212	32	2006	24	1502	25	1407	28	1403
30	29	2646	32	2289	33	2064	24	1523	25	1432	28	1443
40	30	2797	33	2371	34	2133	25	1549	26	1461	29	1483
50	31	2964	34	2469	35	2215	25	1581	26	1495	29	1523
60	32	3147	35	2574	36	2303	26	1619	27	1533	29	1563
70	33	3346	36	2697	37	2406	27	1663	28	1575	29	1603
80	34	3561	37	2837	38	2524	28	1713	29	1621	30	1643
90	35	3792	38	2994	39	2657	29	1765	30	1671	30	1683
100	37	4039	40	3168	41	2806	31	1821	32	1725	31	1723
110	40	4312	43	3462	44	3081	34	1991	35	1891	34	1783
120	44	4611	47	3787	48	3407	38	2181	39	2071	38	1843

WEIGHT — 10000 LBS ALTITUDE — 5000 FT V_{max} — 137 KIAS

TEMP DEG °	10 KTS		20 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS				
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT						
-30	25	2153	29	1644	30	1490	31	1342	32	1202	35	1053
-20	25	2188	29	1674	30	1518	31	1370	32	1229	35	1093
-10	25	2227	29	1707	30	1549	31	1400	32	1258	35	1133
0	25	2289	29	1753	30	1597	31	1443	32	1297	35	1173
10	26	2356	29	1813	30	1648	31	1491	32	1341	35	1213
20	27	2450	29	1873	30	1705	31	1543	32	1389	35	1253
30	27	2541	29	1928	30	1767	31	1618	32	1438	35	1293
40	27	2649	30	2001	31	1879	32	1702	33	1534	36	1333
50	28	2764	30	2073	31	1980	32	1798	33	1621	36	1373
60	28	2889	31	2157	32	2096	33	1901	34	1713	36	1413
70	29	3034	32	2244	33	2231	33	2027	34	1813	37	1453
80	30	3199	33	2337	34	2381	34	2169	35	1927	37	1493
90	31	3384	34	2436	35	2539	35	2327	36	2047	38	1533
100	32	3589	35	2541	36	2709	36	2497	37	2177	39	1573
110	34	3814	37	2664	38	2891	38	2677	39	2327	40	1613
120	36	4059	39	2807	40	3087	40	2871	41	2487	41	1653

WEIGHT — 9500 LBS ALTITUDE — 5000 FT V_{max} — 134 KIAS

TEMP DEG °	10 KTS		20 KTS		30 KTS		V ₁ KIAS	V ₂ KIAS				
	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT						
-30	23	1997	27	1513	28	1373	20	1103	21	973	24	823
-20	23	2027										

TAKEOFF FIELD LENGTH — FEET
 OVER 35 FOOT OBSTACLE
 6000 FEET

CONDITIONS: Landing Gear — DOWN
 • Flaps must be 0°
 Speed Brakes — RETRACT Wing Flaps — T.O. & APPR or UP
 Operative Engine — TAKEOFF THRUST Inoperative Engine — WINDMILLING after V_R

WEIGHT - 12500 LBS ALTITUDE - 4000 FT V_R - 151 KIAS

TEMP DEG	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V _R KIAS	V _D KIAS
	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT		
-30	37	3173	30	2480	31	2558	32	2642	33	2739	36	107
-20	37	3285	30	2558	31	2639	32	2729	33	2829	36	107
-10	38	3377	30	2654	31	2748	32	2843	33	2949	36	107
0	38	3491	31	2751	32	2859	33	2968	34	3088	37	107
10	38	3619	31	2860	32	2972	33	3094	34	3218	37	107
20	39	3764	32	2982	32	3107	33	3242	34	3377	37	107
30	40	3926	33	3128	33	3259	34	3411	35	3545	38	107
40	42	4274	34	3398	34	3547	35	3697	36	3866	39	107
50	45	4722	35	3681	35	3864	36	4059	37	4274	40	107
60	49	5277	37	3949	37	4153	38	4363	39	4590	41	107
70	57	6078	39	4367	39	4643	40	4872	41	5120	42	107
80	70	7674	102	4680	102	4504	103	4160	103	3827	102	107
90	105	8459	105	5186	105	5420	105	5686	105	4738	105	112

WEIGHT - 12000 LBS ALTITUDE - 4000 FT V_R - 150 KIAS

TEMP DEG	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V _R KIAS	V _D KIAS
	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT		
-30	35	2953	28	2304	29	2403	30	2512	31	2630	34	105
-20	35	3048	28	2378	29	2479	30	2594	31	2727	34	105
-10	35	3152	28	2464	29	2581	30	2705	31	2847	34	105
0	35	3258	28	2553	29	2673	30	2805	31	2957	34	105
10	36	3368	29	2645	30	2772	31	2917	32	3084	35	105
20	36	3488	29	2740	30	2873	31	3017	32	3225	35	105
30	37	3624	30	2849	31	3019	32	3164	33	3381	36	105
40	39	3935	31	3119	32	3284	33	3434	34	3645	37	105
50	40	4205	32	3343	33	3510	34	3710	35	3928	38	105
60	41	4508	33	3595	34	3810	35	4088	36	4381	39	105
70	43	5098	35	3941	36	4165	37	4434	38	4790	40	105
80	56	6510	98	4388	98	4238	99	3718	102	3649	102	105
90	99	8910	100	4870	101	4512	101	4163	102	3808	102	105
100	103	8318	103	5952	103	5451	103	5109	103	4778	103	110

WEIGHT - 11500 LBS ALTITUDE - 4000 FT V_R - 147 KIAS

TEMP DEG	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V _R KIAS	V _D KIAS
	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT		
-30	32	2760	26	2126	27	2239	28	2369	29	2517	32	103
-20	32	2839	26	2202	27	2310	28	2445	29	2600	32	103
-10	33	2933	26	2281	27	2395	28	2534	29	2699	32	103
0	33	3030	26	2362	27	2482	28	2634	29	2811	32	103
10	33	3129	26	2445	27	2575	28	2735	29	2920	32	103
20	34	3241	27	2538	27	2635	28	2805	30	3000	33	103
30	34	3340	27	2629	28	2734	29	2912	31	3210	33	103
40	36	3621	28	2953	29	3064	30	3288	31	3531	34	103
50	37	3863	29	3054	29	3167	31	3411	32	3750	35	103
60	38	4130	30	3275	31	3407	32	3664	33	3995	36	103
70	40	4467	32	3553	32	3728	33	3994	34	4325	38	103
80	49	4901	34	3915	35	4111	35	4317	36	4632	37	103
90	95	5880	98	4358	97	4022	97	3700	98	3390	98	103
100	100	7125	100	5220	100	4895	100	4578	100	4271	100	108

WEIGHT - 11000 LBS ALTITUDE - 4000 FT V_R - 144 KIAS

TEMP DEG	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V _R KIAS	V _D KIAS
	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT		
-30	30	2573	23	1983	24	2107	25	2257	26	2431	30	101
-20	30	2645	23	2043	24	2183	25	2339	26	2520	30	101
-10	30	2730	23	2114	24	2264	25	2429	26	2619	30	101
0	31	2817	24	2195	25	2355	26	2531	27	2738	30	101
10	31	2904	24	2278	25	2443	26	2625	27	2857	30	101
20	31	3008	24	2343	25	2511	26	2717	27	2965	30	101
30	32	3161	25	2469	26	2649	27	2877	28	3184	30	101
40	33	3334	25	2611	26	2809	27	3177	28	3519	30	101
50	34	3545	26	2784	27	2999	28	3425	29	3878	31	101
60	35	3785	27	2981	28	3222	29	3695	30	4271	32	101
70	37	4082	29	3225	29	3499	30	3995	31	4717	33	101
80	46	4419	30	3505	31	3770	32	4348	33	5129	34	101
90	81	4871	92	3884	93	3573	94	3283	94	3000	95	101
100	93	5413	95	4366	96	4011	98	3888	98	3356	98	101
110	116	6987	98	5253	98	4924	98	4603	98	4291	98	105

WEIGHT - 10500 LBS ALTITUDE - 4000 FT V_R - 140 KIAS

TEMP DEG	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V _R KIAS	V _D KIAS
	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT		
-30	28	2392	21	1839	22	1972	23	2112	24	2269	27	98
-20	28	2460	21	1894	22	2024	23	2174	24	2340	27	98
-10	28	2537	21	1957	22	2093	23	2251	24	2415	27	98
0	28	2614	21	2020	22	2164	23	2330	24	2498	27	98
10	28	2699	22	2085	23	2235	24	2415	25	2688	27	98
20	29	2784	22	2140	23	2306	24	2500	25	2781	27	98
30	29	2871	22	2201	23	2377	24	2594	25	2882	27	98
40	30	2967	23	2267	24	2448	25	2694	26	3000	27	98
50	31	3050	23	2327	24	2519	25	2769	26	3135	27	98
60	32	3144	24	2394	25	2590	26	2849	27	3284	27	98
70	33	3241	24	2467	25	2661	26	2939	27	3447	27	98
80	36	3357	25	2544	26	2742	27	3039	28	3624	27	98
90	59	3835	31	2847	32	3043	33	3243	33	3843	33	98
100	92	4398	94	3321	94	2982	94	2689	94	2329	94	98
120	98	6928	98	4372	98	4039	98	3614	98	3299	98	103

WEIGHT - 10000 LBS ALTITUDE - 4000 FT V_R - 137 KIAS

TEMP DEG	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V _R KIAS	V _D KIAS
	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT		
-30	25	2219	19	1700	20	1842	21	1993	22	2154	25	96
-20	25	2291	19	1751	20	1893	21	2054	22	2225	25	96
-10	25	2363	19	1802	20	1944	21	2115	22	2306	25	96
0	26	2435	19	1853	20	1995	21	2186	22	2407	25	96
10	26	2507	20	1904	21	2046	22	2237	23	2518	25	96
20	26	2579	20	1955	21	2097	22	2318	23	2629	25	96
30	27	2651	20	2006	21	2148	22	2369	23	2740	25	96
40	27	2723	20	2057	21	2200	22	2420	23	2851	25	96
50	28	2795	20	2108	21	2251	22	2471	23	2962	25	96
60	29	2867	21	2159	22	2302	23	2522	24	3073	25	96
70	30	2939	21	2210	22	2353	23	2573	24	3184	25	96
80	33	3042	22	2282	23	2424	24	2654	25	3365	25	96
90	55	3400	27	2587	28	2708	29	2849	29	3546	25	96
100	88	4787	89	3738	90	3490	90	3197	91	2925	91	96
120	91	5370	92	4255	93	3948	93	3687	93	3364	93	96
130	94	6304	94	5244	94	4909	94	4582	94	4256	94	101

WEIGHT - 9500 LBS ALTITUDE - 4000 FT V_R - 134 KIAS

TEMP DEG	-10 KTS		0 KTS		10 KTS		20 KTS		30 KTS		V _R KIAS	V _D KIAS
	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT	V _L KIAS	DIST FT		
-30	23	2056	17	1569	18	1721	19	1882	20	2053	23	94
-20	23	2113	17	1616	18	1772	19	1933	20	2114	23	94
-10	23	2179	17	1668	18	1823	19	2000	20	2205	23	94
0	23	2244	17	1720	18	1874	19	2061	20	2316	23	94
10	24	2308										

P.O. Box 5184
Uvalde, Texas 78802-5184

UN-OFFICIAL TAKEOFF FIELD LENGTH
for Cessna 501 Eagle II Aircraft with WII
FJ44-2A Engines Installed.

TAKEOFF FIELD LENGTH — FEET
OVER 35 FOOT OBSTACLE

7000 FEET

CONDITIONS: Landing Gear — DOWN

Speed Brakes — RETRACT

Wing Flaps — T.O. & APPR or UP

Flaps must be 0°

Operative Engine — TAKEOFF THRUST

Inoperative Engine — WINDMILLING after V

WEIGHT — 12500 LBS		ALTIMITUDE — 7000 FT										V _{LO} — 150 KIAS	
		WIND VELOCITY											
TEMP DEG °	-10 KTS V ₁ KIAS	0 KTS DIST FT	10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS			
			V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT			V ₁ KIAS	DIST FT	
-30	38	1261	30	1639	31	2413	32	2198	33	1996	36	107	
-20	38	1480	31	1740	32	2508	33	2297	33	2078	37	107	
-10	39	1813	31	2053	32	2815	33	2387	34	2171	37	107	
0	39	2749	32	2969	32	2725	33	2489	34	2286	37	107	
10	39	3887	32	3087	33	2926	34	2594	34	2364	38	107	
20	40	4055	32	3228	33	3209	34	2719	35	2481	38	107	
30	41	4353	33	3443	34	3170	35	2908	36	2659	39	107	
40	43	4806	35	3692	35	3404	36	3128	37	2861	39	107	
50	44	5337	36	3980	37	3678	37	3382	38	3101	100	107	
60	47	6058	38	4357	39	4035	39	3722	100	3418	101	107	
70	49	7018	101	4831	101	4481	102	4110	102	3811	103	107	
80	104	8415	105	5169	105	5438	104	5018	105	4894	105	112	

WEIGHT — 12000 LBS		ALTIMITUDE — 7000 FT										V _{LO} — 150 KIAS	
		WIND VELOCITY											
TEMP DEG °	-10 KTS V ₁ KIAS	0 KTS DIST FT	10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS			
			V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT			V ₁ KIAS	DIST FT	
-30	35	1137	38	2449	39	2237	30	2038	31	1845	34	105	
-20	36	1248	38	2543	39	2325	30	2117	31	1921	34	105	
-10	36	1380	39	2638	40	2413	31	2200	31	1998	34	105	
0	36	1473	39	2735	40	2504	31	2293	32	2078	35	105	
10	37	1598	39	2842	40	2594	31	2378	32	2164	35	105	
20	37	1747	40	2967	41	2723	31	2488	32	2288	35	105	
30	38	1979	41	3160	41	2903	32	2658	33	2421	36	105	
40	40	2248	42	3381	43	3111	33	2851	34	2602	37	105	
50	41	2552	43	3633	44	3347	34	3072	35	2808	37	105	
60	43	2908	45	3931	45	3628	36	3335	37	3055	38	105	
70	45	3383	47	4345	47	4021	38	3705	38	3399	100	105	
80	48	3980	49	4838	100	4484	100	4139	101	3808	101	105	
90	103	4744	103	5937	103	5375	103	5038	103	4711	103	110	

WEIGHT — 11500 LBS		ALTIMITUDE — 7000 FT										V _{LO} — 147 KIAS	
		WIND VELOCITY											
TEMP DEG °	-10 KTS V ₁ KIAS	0 KTS DIST FT	10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS			
			V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT			V ₁ KIAS	DIST FT	
-30	33	1019	36	1538	37	1079	38	1881	39	1702	32	103	
-20	33	1021	36	1553	37	2149	38	1955	39	1770	32	103	
-10	33	1123	36	2439	37	2229	38	2029	39	1839	32	103	
0	34	1229	37	2527	37	2311	38	2108	39	1911	32	103	
10	34	1335	37	2618	38	2395	39	2184	39	1984	32	103	
20	34	1459	37	2721	38	2492	39	2274	40	2088	33	103	
30	35	1682	38	2991	39	2650	40	2420	40	2203	33	103	
40	37	1900	39	3099	40	2935	41	2592	41	2382	34	103	
50	38	2138	40	3311	41	3043	42	2785	42	2541	35	103	
60	39	2479	41	3561	42	3278	43	2985	43	2745	35	103	
70	41	2874	43	3898	44	3584	44	3204	45	3023	36	103	
80	44	3432	45	4321	46	3984	47	3678	47	3349	38	103	
90	47	4019	48	4822	49	4464	49	4119	49	3806	39	103	
100	101	5045	101	5755	101	5405	101	5085	101	4733	101	108	

WEIGHT — 11000 LBS		ALTIMITUDE — 7000 FT										V _{LO} — 144 KIAS	
		WIND VELOCITY											
TEMP DEG °	-10 KTS V ₁ KIAS	0 KTS DIST FT	10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS			
			V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT			V ₁ KIAS	DIST FT	
-30	30	1079	34	2102	35	1917	36	1729	37	1559	30	101	
-20	31	1080	34	2177	35	1987	36	1804	37	1630	30	101	
-10	31	1208	34	2253	35	2058	36	1870	37	1691	30	101	
0	31	1295	34	2333	35	2132	36	1940	37	1758	30	101	
10	31	1393	34	2415	35	2208	36	2010	37	1822	30	101	
20	32	1508	35	2509	36	2295	36	2092	37	1898	30	101	
30	33	1635	35	2647	36	2422	37	2210	38	2007	30	101	
40	34	1781	36	2817	37	2580	38	2358	38	2143	31	101	
50	35	1949	37	3014	38	2783	39	2525	39	2300	32	101	
60	36	2148	38	3254	39	2969	40	2716	40	2478	33	101	
70	38	2418	40	3508	40	3225	41	2954	42	2699	33	101	
80	40	2763	42	3800	42	3558	43	3287	44	2986	35	101	
90	43	3243	44	4293	45	3983	45	3643	46	3337	38	101	
100	48	3821	48	5155	48	4833	48	4519	48	4214	48	105	

WEIGHT — 10500 LBS		ALTIMITUDE — 7000 FT										V _{LO} — 140 KIAS	
		WIND VELOCITY											
TEMP DEG °	-10 KTS V ₁ KIAS	0 KTS DIST FT	10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS			
			V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT			V ₁ KIAS	DIST FT	
-30	28	1025	31	1346	32	1172	33	1505	34	1445	28	98	
-20	28	1028	31	1361	32	1834	33	1582	34	1498	28	98	
-10	28	1138	32	2081	33	1898	34	1722	35	1553	28	98	
0	29	1274	32	2151	33	1984	34	1733	35	1610	29	98	
10	29	1390	32	2232	33	2030	34	1845	35	1688	29	98	
20	29	1582	32	2307	33	2109	34	1918	35	1729	29	98	
30	30	1714	33	2430	34	2222	34	2023	35	1833	29	98	
40	31	1865	33	2589	34	2350	35	2142	36	1943	30	98	
50	32	2047	34	2725	35	2504	36	2285	37	2075	30	98	
60	33	2252	35	2928	36	2683	37	2450	37	2229	30	98	
70	34	2491	37	3186	37	2904	38	2658	39	2421	30	98	
80	36	2784	38	3441	39	3160	39	2984	40	2642	31	98	
90	38	3142	40	3806	41	3504	41	3213	42	2938	33	98	
100	41	3511	43	4258	43	3925	44	3506	44	3319	34	98	
110	46	4003	46	5159	46	4834	46	4517	46	4210	46	103	

WEIGHT — 10000 LBS		ALTIMITUDE — 7000 FT										V _{LO} — 137 KIAS	
		WIND VELOCITY											
TEMP DEG °	-10 KTS V ₁ KIAS	0 KTS DIST FT	10 KTS		20 KTS		30 KTS		V ₂ KIAS	V ₂ KIAS			
			V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT	V ₁ KIAS	DIST FT			V ₁ KIAS	DIST FT	
-30	25	1041	29	1798	30	1634	31	1477	32	1327	25	94	
-20	25	1045	29	1859	30	1691	31	1530	31	1375	25	94	
-10	25	1149	29	1921	30	1749	31	1583	32	1428	25	94	
0	26	1268	29	1983	30	1807	31	1638	32	1478	25	94	
10	26	1393	30	2046	30	1869	31	1692	32	1527	25	94	
20	27	1534	30	2129	31	1935	32	1758	32	1586	25	94	
30	27	1687	30	2229	31	2034	32	1847	33	1670	26	94	
40	28	1852	31	2352	32	2148	32	1953	33	1767	26	94	
50	29	2039	31	2488	32	2274	33	2070	34	1875	26	94	
60	30	2252	32	2647	33	2422	34	2207	34	2001	27	94	
70	31	2491	33	2854	34	2814	35	2385	36	2187	28	94	
80	33	2763	35	3091	35	2954	36	2590	37	2358	28	94	
90	34	3068	36	3364	37	3047	37	2828	38	2575	29	94	
100	37	3474	38	3748	39	3447	40	3159	40	2984	30	94	
110	41	4019	41	4210	41	3877	42	3588	42	3303	32	94	
120	46	4688	46	5158	46	4822	46	4503	46	4193	46	101	

WEIGHT — 9500 LBS		ALTIMITUDE — 7000 FT										V _{LO} — 134 KIAS	
		WIND VELOCITY											
TEMP DEG °	-10 KTS V ₁ KIAS	0 KTS DIST FT	10 KTS		20 KTS		30 KTS		V ₂ <				

P.O. Box 5184
Uvalde, Texas 78802-5184

UN-OFFICIAL TAKEOFF FIELD LENGTH
for Cessna 501 Eagle II Aircraft with WII
FJ44-2A Engines Installed.

TAKEOFF FIELD LENGTH — FEET
OVER 35 FOOT OBSTACLE

8000 FEET

CONDITIONS: Landing Gear — DOWN

Speed Brakes — RETRACT

Wing Flaps — T.O. & APPR or UP

Flaps must be 0°

Operative Engine — TAKEOFF THRUST

Inoperative Engine — WINDMILLING after V

WEIGHT 12500 LBS		ALTITUDE - 8000 FEET										V _{LO} - 153 KIAS	
TEMP DEG F	-10 KNOTS VI DIST KIAS FEET	WIND VELOCITY					VR	V2	KIAS	FEET	KIAS	FEET	
		0 KNOTS VI DIST KIAS FEET	10 KNOTS VI DIST KIAS FEET	20 KNOTS VI DIST KIAS FEET	30 KNOTS VI DIST KIAS FEET	40 KNOTS VI DIST KIAS FEET							
-30	39 1598	31 2938	32 2901	33 2873	34 2848	37 107							
-20	39 1738	32 2950	32 2714	33 2479	34 2256	37 107							
-10	30 1883	32 3082	33 2931	34 2588	34 2358	38 107							
0	30 4035	32 3210	33 2952	34 2703	35 2465	38 107							
10	31 4192	33 3343	34 3077	34 2821	35 2576	38 107							
20	31 4472	33 3502	34 3227	35 2983	36 2708	39 107							
30	31 4907	35 3742	35 3453	36 3175	38 2907	39 107							
40	34 5418	38 4021	38 3717	37 3422	38 3140	100 107							
50	36 5143	38 4284	38 4071	38 3758	100 2454	101 107							
60	36 5984	100 4820	101 4471	101 4133	102 3805	102 107							
70	104 3390	105 5184	105 5485	105 4990	105 4860	105 112							

WEIGHT 12000 LBS		ALTITUDE - 8000 FEET										V _{LO} - 150 KIAS	
TEMP DEG F	-10 KNOTS VI DIST KIAS FEET	WIND VELOCITY					VR	V2	KIAS	FEET	KIAS	FEET	
		0 KNOTS VI DIST KIAS FEET	10 KNOTS VI DIST KIAS FEET	20 KNOTS VI DIST KIAS FEET	30 KNOTS VI DIST KIAS FEET	40 KNOTS VI DIST KIAS FEET							
-30	38 1545	30 2924	30 2400	31 2187	31 1986	34 105							
-20	38 3403	30 2725	30 2494	31 2274	32 2087	35 105							
-10	37 3595	30 2837	30 2599	31 2373	32 2159	35 105							
0	37 3729	30 2951	31 2708	31 2518	32 2253	35 105							
10	38 3887	30 3089	31 2858	32 2578	33 2340	36 105							
20	38 4040	31 3214	32 2929	33 2635	34 2384	37 105							
30	39 4297	32 3429	32 3157	33 2855	34 2544	37 105							
40	31 4642	33 3677	34 3300	34 3114	35 2848	37 105							
50	32 5180	34 3983	35 3659	35 3386	36 3088	38 105							
60	35 5881	38 4340	37 4017	37 3705	38 3401	39 105							
70	37 5811	99 4816	98 4465	100 4125	100 3796	101 105							
80	102 3213	103 5347	103 5325	103 4993	103 4671	103 110							

WEIGHT 11500 LBS		ALTITUDE - 8000 FEET										V _{LO} - 140 KIAS	
TEMP DEG F	-10 KNOTS VI DIST KIAS FEET	WIND VELOCITY					VR	V2	KIAS	FEET	KIAS	FEET	
		0 KNOTS VI DIST KIAS FEET	10 KNOTS VI DIST KIAS FEET	20 KNOTS VI DIST KIAS FEET	30 KNOTS VI DIST KIAS FEET	40 KNOTS VI DIST KIAS FEET							
-30	33 1110	30 3426	37 3317	38 3018	39 2829	32 103							
-20	34 1220	37 3518	38 3202	38 2907	39 2613	32 103							
-10	34 1331	37 3513	39 2290	39 2179	39 1979	32 103							
0	34 2444	37 3708	38 2479	39 2282	39 2058	33 103							
10	35 2584	37 3811	38 2578	39 2352	39 2140	33 103							
20	35 2718	38 3941	39 2897	39 2485	39 2245	33 103							
30	36 2947	39 4122	39 2978	39 2631	39 2399	34 103							
40	38 4212	39 4352	31 3083	31 2824	32 2578	35 103							
50	39 4511	31 3800	32 3318	32 3042	33 2791	35 103							
60	31 4859	32 3891	33 3588	34 3299	34 3021	36 103							
70	33 5824	35 4308	35 3983	36 3870	37 3355	37 103							
80	38 4574	37 4794	38 4440	38 4097	39 3768	39 103							
90	101 7986	101 5679	101 5325	101 5001	101 4875	101 108							

WEIGHT 11000 LBS		ALTITUDE - 8000 FEET										V _{LO} - 144 KIAS	
TEMP DEG F	-10 KNOTS VI DIST KIAS FEET	WIND VELOCITY					VR	V2	KIAS	FEET	KIAS	FEET	
		0 KNOTS VI DIST KIAS FEET	10 KNOTS VI DIST KIAS FEET	20 KNOTS VI DIST KIAS FEET	30 KNOTS VI DIST KIAS FEET	40 KNOTS VI DIST KIAS FEET							
-30	31 1987	34 3242	35 3047	36 2860	37 2681	30 101							
-20	31 2987	34 3225	35 3124	36 2932	37 2749	30 101							
-10	31 3089	34 2410	35 2203	36 2008	37 1817	30 101							
0	32 3192	35 2497	36 2283	36 2091	37 1888	30 101							
10	32 3298	35 2588	36 2386	37 2198	37 1960	30 101							
20	32 3425	35 2692	36 2484	37 2249	38 2045	30 101							
30	33 3624	36 2857	37 2618	38 2392	38 2177	30 101							
40	35 3858	37 3051	38 2799	38 2580	39 2332	32 101							
50	36 4124	38 3272	39 3005	39 2751	39 2510	33 101							
60	37 4422	39 3518	39 3237	39 2986	31 2711	33 101							
70	39 4816	31 3848	32 3545	32 3257	33 2979	34 101							
80	32 5318	33 4294	34 3940	34 3624	35 3320	35 101							
90	34 5289	36 4784	38 4407	37 4054	37 3758	37 101							
100	38 7725	99 5693	99 5346	99 5009	99 4680	99 105							

WEIGHT 10500 LBS		ALTITUDE - 8000 FEET										V _{LO} - 140 KIAS	
TEMP DEG F	-10 KNOTS VI DIST KIAS FEET	WIND VELOCITY					VR	V2	KIAS	FEET	KIAS	FEET	
		0 KNOTS VI DIST KIAS FEET	10 KNOTS VI DIST KIAS FEET	20 KNOTS VI DIST KIAS FEET	30 KNOTS VI DIST KIAS FEET	40 KNOTS VI DIST KIAS FEET							
-30	29 1577	32 3070	33 2988	34 2912	35 2844	33 98							
-20	29 2796	32 3144	33 2956	34 2775	35 2603	33 98							
-10	29 3356	32 3219	33 3029	34 2840	35 2663	33 98							
0	29 3949	32 3298	33 3098	34 2908	35 2723	33 98							
10	29 4045	32 3375	33 3172	34 2977	35 2731	33 98							
20	30 4160	33 3470	34 3290	34 3059	35 2807	33 98							
30	31 4325	33 3608	34 3386	35 3178	36 2975	33 98							
40	32 4525	34 3770	35 2537	36 3105	36 3105	39 98							
50	33 4758	35 3961	36 2714	37 2481	37 3258	39 98							
60	34 4922	36 4178	37 2917	38 2589	38 3433	39 98							
70	36 4348	38 4447	38 3188	39 2901	39 3551	91 98							
80	38 4752	39 4785	39 3485	31 3199	31 3924	92 98							
90	39 5249	72 4210	72 3884	73 3589	73 3258	93 98							
100	93 5886	94 4720	95 4384	95 4030	95 3743	95 98							

WEIGHT 10000 LBS		ALTITUDE - 8000 FEET										V _{LO} - 137 KIAS	
TEMP DEG F	-10 KNOTS VI DIST KIAS FEET	WIND VELOCITY					VR	V2	KIAS	FEET	KIAS	FEET	
		0 KNOTS VI DIST KIAS FEET	10 KNOTS VI DIST KIAS FEET	20 KNOTS VI DIST KIAS FEET	30 KNOTS VI DIST KIAS FEET	40 KNOTS VI DIST KIAS FEET							
-30	28 2480	33 3011	30 2740	31 2575	32 2417	25 96							
-20	28 3559	30 2978	30 2742	31 2582	32 2429	25 96							
-10	28 4639	30 3010	31 2828	32 2648	32 2573	25 96							
0	29 5722	30 3190	31 2991	32 2808	33 2634	26 96							
10	29 7009	30 3284	31 3058	32 2880	33 2701	26 96							
20	29 8399	31 3386	31 3190	32 2984	33 2797	26 96							
30	29 9729	31 3521	32 3296	33 3100	34 2904	26 96							
40	30 2419	32 3678	33 3451	34 3235	34 3029	27 96							
50	31 3648	33 3864	34 3524	34 3396	35 3178	27 96							
60	32 4934	34 4058	35 3642	36 2598	36 3287	28 96							
70	34 4281	36 3386	36 3690	37 2830	38 2581	28 96							
80	38 4876	38 3712	38 3416	39 3132	39 2861	30 96							
90	88 5191	39 4151	31 3824	31 3511	31 3223	31 96							
100	91 5803	93 4885	93 4308	93 4009	93 3721	93 99							

WEIGHT 9500 LBS		ALTITUDE - 8000 FEET										V _{LO} - 134 KIAS	
TEMP DEG F	-10 KNOTS VI DIST KIAS FEET	WIND VELOCITY					VR	V2	KIAS	FEET	KIAS	FEET	
		0 KNOTS VI DIST KIAS FEET	10 KNOTS VI DIST KIAS FEET	20 KNOTS VI DIST KIAS FEET	30 KNOTS VI DIST KIAS FEET	40 KNOTS VI DIST KIAS FEET							
-30	24 2293	27 1781	28 1599	29 1445	30 1298	33 94							
-20	24 2386	27 1821	28 1655	29 1497	30 1346	33 94							
-10	24 2439	27 1881	28 1711	29 1549	30 1394	33 94							
0	24 2513	27 1941	28 1788	29 1602	30 1443	33 94							
10	24 2588	27 2003	29 1829	29 1655	30 1493	33 94							
20	25 2579	28 2078	29 1894	29 1718	30 1551	33 94							
30	25 2908	28 2181	29 1991	30 1807	31 1632	33 94							
40	25 3058	29 2302	29 2101	30 1909	31 1723	34 94							
50	27 3121	29 2424	30 2224	31 2023	32 1831	34 94							
60	28 3208	30 2583	31 2382	31 2151	32 1940	34 94							
70	29 3554	31 2783	32 2548	33 2323	33 2108	35 94							
80	30 3840	32 3014	33 2783	34 2523	34 2295	36 94							
90	32 4165	34 3278	34 3009	35 2753	36 2507	37 94							
100	34 4595	36 3838	36 3246	37 3065	38 2798	38 94							
110	47 5125	96 4084	99 3759	99 3452	99 3193	39 94							
120	91 5027	31 5011	31 4889	31 4378	31 4072	31 98							

WEIGHT 8500 LBS		ALTITUDE - 8000 FEET										V _{LO} - 127 KIAS	
TEMP DEG F													