


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

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	33961	37986	2250	1410	29630	32804	2210	1351	28223	31139	2200	1233	25462	27899	2170
	-35	1647	28988	32683	2030	1470	25471	28433	1990	1411	24330	27063	1980	1293	22084	24389	1960
	-30	1662	28997	32784	1980	1485	25528	28555	1950	1426	24396	27190	1940	1308	22166	24528	1920
	-25	1677	29027	32903	1940	1500	25582	28686	1910	1441	24458	27326	1900	1323	22245	24672	1880
	-20	1692	29051	33025	1910	1515	25630	28818	1880	1456	24514	27461	1870	1338	22316	24814	1850
	-15	1708	29069	33140	1870	1531	25673	28944	1840	1472	24564	27590	1830	1353	22381	24950	1810
	-10	1722	30984	35394	1850	1545	27368	30914	1820	1486	26188	29471	1810	1368	23868	26658	1790
	-5	1737	33227	38030	1830	1560	29341	33207	1800	1501	28078	31658	1790	1383	25595	28640	1770
	0	1752	43426	49795	1880	1575	38191	43301	1840	1516	36498	41225	1830	1398	33188	37201	1800
	5	1766	59745	68779	1980	1589	52119	59308	1920	1530	49684	56316	1900	1412	44962	50566	1860
10	1781	87611	101161	2160	1604	75328	85944	2070	1545	71486	81236	2040	1427	64146	72314	1980	
1 2 2 0 0	-54	1578	32483	36255	2240	1401	28339	31311	2200	1342	26992	29721	2180	1224	24346	26625	2160
	-35	1637	27824	31318	2020	1460	24460	27244	1980	1401	23362	25929	1970	1283	21198	23362	1950
	-30	1652	27850	31413	1970	1475	24513	27358	1940	1416	23424	26049	1930	1298	21277	23493	1910
	-25	1668	27877	31523	1930	1490	24564	27481	1900	1431	23482	26176	1890	1313	21350	23629	1870
	-20	1682	27897	31634	1900	1505	24608	27603	1870	1446	23534	26302	1860	1328	21417	23761	1840
	-15	1697	27912	31739	1860	1520	24647	27719	1830	1461	23580	26421	1820	1343	21479	23888	1800
	-10	1712	29700	33838	1840	1535	26230	29556	1810	1475	25098	28175	1800	1357	22869	25482	1780
	-5	1726	31779	36277	1820	1549	28067	31685	1790	1490	26857	30207	1780	1372	24478	27324	1760
	0	1741	41166	47078	1860	1564	36217	40959	1820	1505	34614	39000	1810	1387	31477	35200	1780
	5	1756	55813	64071	1950	1579	48753	55328	1890	1520	46491	52559	1870	1401	42099	47227	1840
10	1770	79814	91876	2100	1593	68864	78347	2020	1534	65420	74137	1990	1416	58813	66129	1940	
1 2 0 0 0	-54	1567	30998	34409	2220	1390	26954	29717	2180	1331	25670	28206	2170	1212	23147	25262	2140
	-35	1625	26587	29853	2000	1448	23366	25965	1970	1389	22313	24709	1960	1271	20239	22255	1940
	-30	1641	26610	29940	1960	1463	23415	26071	1930	1404	22371	24821	1920	1286	20313	22378	1900
	-25	1655	26633	30040	1920	1478	23462	26184	1890	1419	22425	24939	1880	1301	20382	22505	1870
	-20	1670	26650	30141	1880	1493	23502	26297	1860	1434	22473	25055	1850	1316	20444	22628	1830
	-15	1685	26663	30237	1850	1508	23537	26403	1820	1449	22516	25165	1810	1331	20502	22746	1790
	-10	1700	28317	32175	1830	1522	25004	28101	1800	1463	23922	26787	1790	1345	21791	24221	1770
	-5	1714	30233	34417	1810	1537	26699	30062	1780	1478	25546	28857	1770	1360	23277	25919	1750
	0	1729	38788	44236	1840	1552	34135	38503	1810	1493	32627	36665	1790	1375	29666	33091	1770
	5	1743	51801	59289	1920	1566	45303	51269	1860	1507	43216	48722	1850	1389	39155	43808	1810
10	1757	72263	82924	2040	1580	62550	70955	1970	1521	59478	67210	1940	1403	53562	60059	1890	
1 8 0 0	-54	1556	29415	32659	2210	1378	25655	28205	2170	1319	24430	26770	2160	1201	22021	23970	2130
	-35	1614	25418	28448	1990	1436	22331	24740	1960	1377	21322	23540	1950	1259	19331	21196	1940
	-30	1629	25439	28528	1950	1451	22377	24838	1920	1392	21376	23644	1910	1274	19400	21311	1900
	-25	1643	25459	28619	1910	1466	22420	24942	1880	1407	21426	23753	1880	1289	19465	21429	1860
	-20	1658	25473	28711	1870	1481	22457	25045	1850	1422	21470	23860	1840	1304	19524	21543	1820
	-15	1673	25483	28796	1840	1495	22489	25143	1810	1436	21510	23962	1800	1318	19578	21653	1790
	-10	1689	27017	30587	1820	1511	23850	26713	1790	1452	22815	25462	1780	1334	20775	23018	1760
	-5	1702	28786	32650	1800	1525	25416	28519	1770	1466	24316	27186	1760	1347	22150	24583	1740
	0	1716	36603	41591	1830	1539	32219	36215	1790	1480	30795	34489	1780	1362	28003	31133	1760
	5	1731	48221	54980	1890	1554	42214	47599	1840	1495	40280	45250	1820	1377	36509	40708	1790
10	1745	65842	75254	1990	1568	57139	64575	1920	1509	54373	61218	1900	1391	49030	54785	1860	
1 6 0 0	-54	1544	28024	31044	2190	1367	24435	26807	2160	1308	23265	25440	2150	1190	20963	22772	2120
	-35	1603	24299	27106	1980	1426	21342	23571	1950	1367	20375	22427	1950	1249	18466	20189	1930
	-30	1618	24319	27183	1940	1441	21386	23664	1910	1382	20426	22526	1910	1264	18532	20298	1890
	-25	1633	24336	27266	1900	1456	21425	23761	1880	1396	20473	22626	1870	1278	18593	20407	1850
	-20	1647	24348	27347	1860	1470	21459	23854	1840	1411	20513	22724	1830	1293	18648	20513	1810
	-15	1662	24355	27424	1830	1485	21488	23943	1800	1426	20550	22817	1790	1307	18698	20615	1780
	-10	1675	25791	29119	1800	1498	22761	25428	1780	1439	21770	24234	1770	1321	19822	21907	1750
	-5	1689	27428	31024	1780	1512	24211	27096	1760	1453	23161	25827	1750	1335	21089	23349	1730
	0	1704	34588	39193	1810	1527	30448	34135	1780	1468	29102	32509	1770	1350	26460	29344	1740
	5	1718	45008	51167	1860	1541	39431	44338	1820	1482	37631	42159	1800	1364	34118	37942	1770
10	1732	60316	68731	1950	1555	52448	59105	1890	1496	49939	56068	1870	1378	45078	50234	1830	
1 4 0 0	-54	1533	26717	29508	2180	1356	23288	25477	2150	1297	22170	24175	2130	1179	19966	21633	2110
	-35	1594	23227	25786	1970	1417	20399	22427	1950	1358	19472	21339	1940	1240	17642	19207	1920
	-30	1609	23247	25857	1930	1431	20439	22513	1910	1372	19520	21430	1900	1254	17704	19309	1880
	-25	1623	23262	25931	1890	1446	20476	22601	1870	1387	19563	21522	1860	1269	17762	19410	1840
	-20	1638	23271	26004	1850	1461	20507	22686	1830	1402	19601	21611	1820	1283	17813	19508	1810
	-15	1650	23276	26071	1820	1473	20533	22766	1790	1414	19635	21696	1790	1296	17860	19601	1770
	-10	1663	24628	27692	1800	1486	21728	24180	1770	1427	20779	23043	1760	1309	18907	20820	1750
	-5	1677	26152	29474	1770	1499	23078	25739	1750	1440	22073	24532	1740	1322	20092	22172	1720
	0	1691	32725	36946	1790	1514	28809	32185	1760	1455	27534	30652	1750	1337	25029	27666	1730
	5	1705	42109	47688	1840	1528	36912	41356	1800	1469	35232	39332	1780	1351	31948	35409	1760
10	1719	55506	63002	1910	1542	48344	54280	1850	1483	46052	51518	1840	1365	41602	46201	1800	

525AFM-06-00

 Figure 4-29 (Sheet 11)



**MODEL 525A**

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

**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	1511	24330	26711	2160	1334	21193	23054	2120	1275	20168	21871	2110	1157	18146	19558	2090
	-35	1577	21255	23363	1950	1400	18658	20325	1930	1341	17806	19339	1920	1222	16123	17405	1910
	-30	1591	21271	23423	1910	1414	18694	20400	1890	1355	17849	19419	1880	1237	16180	17495	1870
	-25	1605	21282	23483	1870	1428	18726	20474	1850	1369	17888	19497	1840	1251	16231	17582	1830
	-20	1618	21287	23538	1840	1441	18751	20543	1810	1382	17920	19570	1810	1264	16276	17664	1790
	-15	1634	21290	23591	1800	1457	18775	20609	1780	1398	17950	19641	1770	1280	16319	17743	1760
	-10	1643	22471	25017	1780	1466	19818	21850	1750	1407	18949	20823	1750	1289	17231	18812	1730
	-5	1654	23808	28608	1750	1477	21000	23237	1730	1418	20080	22145	1720	1300	18265	20008	1710
	0	1665	29420	32999	1770	1488	25894	28750	1740	1429	24743	27378	1730	1311	22479	24703	1710
	10	1680	37123	41756	1800	1502	32564	36251	1760	1443	31086	34485	1750	1325	28188	31053	1730
1050	-54	1488	21879	23554	2130	1311	18872	20332	2100	1252	17952	19287	2090	1134	16137	17239	2070
	-35	1564	19022	20535	1930	1387	16700	17893	1910	1327	15937	17033	1900	1209	14428	15342	1890
	-30	1578	19035	20580	1890	1401	16731	17953	1870	1342	15974	17097	1860	1224	14477	15416	1850
	-25	1592	19042	20622	1850	1415	16757	18009	1830	1356	16007	17158	1830	1238	14522	15486	1810
	-20	1606	19045	20681	1820	1429	16779	18081	1800	1370	16035	17214	1790	1252	14561	15551	1780
	-15	1620	19046	20695	1780	1443	16798	18109	1760	1384	16059	17268	1760	1266	14598	15613	1740
	-10	1626	20055	21944	1760	1449	17687	19190	1740	1390	16909	18295	1730	1272	15371	16536	1720
	-5	1631	21211	23373	1730	1454	18702	20424	1710	1395	17879	19466	1710	1277	16251	17588	1690
	0	1632	25933	28853	1740	1455	22806	25130	1710	1396	21785	23926	1710	1278	19770	21571	1690
	10	1646	32068	35769	1760	1469	28134	31072	1730	1410	26853	29560	1720	1292	24338	26613	1700
1000	-54	1475	19296	20617	2100	1298	16799	17825	2080	1239	15980	16917	2070	1121	14361	15132	2050
	-35	1551	17073	18090	1910	1373	14988	15787	1890	1314	14302	15035	1890	1196	12944	13554	1880
	-30	1565	17083	18122	1870	1387	15014	15833	1860	1328	14334	15086	1850	1210	12987	13614	1840
	-25	1579	17088	18151	1840	1402	15037	15876	1820	1343	14362	15133	1810	1224	13026	13670	1800
	-20	1593	17090	18175	1800	1416	15055	15914	1780	1357	14386	15176	1780	1239	13061	13721	1760
	-15	1607	17089	18196	1760	1430	15071	15949	1750	1371	14408	15216	1740	1253	13093	13770	1730
	-10	1612	17936	19231	1740	1435	15818	16846	1720	1376	15122	16068	1710	1258	13743	14537	1700
	-5	1617	18897	20405	1710	1440	16663	17861	1700	1381	15929	17032	1690	1263	14477	15403	1680
	0	1604	22895	25188	1710	1427	20121	21939	1690	1368	19212	20885	1680	1249	17418	18821	1670
	10	1612	27910	30879	1720	1435	24473	26823	1700	1376	23351	25513	1690	1258	21143	22955	1670
950	-54	1462	17222	18078	2080	1285	14993	15655	2060	1226	14260	14864	2050	1108	12811	13308	2040
	-35	1537	15354	15950	1900	1360	13476	13943	1880	1301	12854	13282	1870	1183	11632	11986	1860
	-30	1552	15362	15972	1860	1375	13499	13978	1840	1315	12886	13325	1840	1197	11670	12035	1830
	-25	1565	15365	15989	1820	1388	13518	14009	1800	1329	12910	13360	1800	1211	11704	12079	1790
	-20	1579	15366	16002	1780	1402	13530	14032	1770	1343	12931	13392	1760	1225	11735	12119	1750
	-15	1593	15364	16013	1750	1416	13548	14061	1730	1357	12950	13421	1730	1239	11764	12157	1720
	-10	1598	16077	16872	1720	1421	14177	14806	1710	1362	13552	14130	1700	1244	12312	12795	1690
	-5	1603	16881	17841	1700	1425	14884	15645	1680	1366	14227	14927	1670	1248	12926	13511	1660
	0	1584	20201	21836	1690	1407	17750	19043	1670	1348	16946	18134	1670	1230	15356	16349	1650
	10	1579	24392	26729	1700	1402	21369	23212	1670	1343	20381	22073	1660	1224	18432	19844	1650
900	-54	1448	15403	16070	2070	1271	13405	13920	2040	1212	12748	13217	2040	1094	11445	11829	2020
	-35	1524	13823	14260	1880	1346	12128	12470	1870	1287	11569	11882	1880	1169	10460	10719	1850
	-30	1537	13829	14277	1840	1360	12148	12499	1830	1301	11594	11915	1820	1183	10494	10760	1810
	-25	1551	13832	14289	1810	1374	12165	12524	1790	1315	11615	11944	1790	1197	10524	10798	1780
	-20	1565	13831	14298	1770	1388	12178	12545	1760	1329	11633	11970	1750	1211	10551	10832	1740
	-15	1579	13829	14305	1740	1402	12190	12565	1720	1343	11649	11994	1720	1224	10577	10864	1710
	-10	1583	14432	15033	1710	1408	12723	13197	1690	1347	12159	12594	1690	1229	11041	11405	1680
	-5	1588	15108	15850	1680	1410	13318	13904	1670	1351	12728	13267	1660	1233	11559	12009	1650
	0	1568	17856	19171	1670	1391	15689	16726	1660	1332	14977	15929	1650	1214	13568	14362	1640
	10	1553	21324	23356	1670	1376	18672	20270	1650	1317	17802	19269	1640	1198	16086	17308	1630
850	-54	1434	13791	14195	2050	1257	11996	12307	2030	1198	11404	11687	2020	1080	10232	10463	2010
	-35	1509	12449	12650	1870	1332	10916	11073	1860	1273	10410	10553	1850	1155	9406	9524	1840
	-30	1522	12453	12661	1830	1345	10933	11095	1820	1286	10431	10579	1810	1168	9435	9558	1800
	-25	1536	12455	12667	1800	1359	10947	11113	1780	1300	10450	10602	1780	1182	9462	9588	1770
	-20	1550	12453	12669	1760	1373	10959	11128	1750	1314	10466	10621	1740	1196	9486	9615	1730
	-15	1563	12451	12670	1720	1386	10969	11142	1710	1327	10480	10638	1710	1209	9509	9640	1700
	-10	1568	12964	13285	1700	1391	11422	11674	1680	1332	10914	11145	1680	1214	9904	10096	1670
	-5	1572	13536	13970	1670	1395	11926	12268	1660	1336	11395	11709	1650	1217	10342	10603	1640
	0	1550	15825	16726	1660	1373	13901	14609	1640	1314	13267	13917	1640	1196	12012	12553	1630
	10	1535	18647	20117	1650	1358	16328	17481	1630	1299	15566	16623	1630	1181	14060	14938	1610

Figure 4-29 (Sheet 12)



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

**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	1614	30955	34887	2210	1436	27110	30225	2170	1377	25858	28725	2160	1259	23397	25803
2	-35	1674	29119	33103	2010	1497	25655	28844	1980	1438	24525	27471	1970	1320	22300	24792	1950	
3	-30	1690	29153	33218	1970	1513	25716	28977	1940	1454	24594	27609	1930	1336	22385	24941	1910	
7 5	-25	1705	29309	33475	1930	1528	25881	29230	1900	1469	24763	27861	1890	1351	22560	25191	1870	
	-20	1721	29467	33736	1900	1544	26048	29486	1870	1485	24932	28116	1860	1367	22734	25442	1840	
	-15	1736	30323	34811	1870	1559	26821	30441	1840	1500	25679	29032	1830	1382	23430	26285	1810	
	-10	1751	32531	37469	1850	1574	28768	32751	1820	1515	27542	31233	1810	1397	25133	28277	1790	
	-5	1766	37444	43227	1850	1589	33063	37723	1820	1530	31640	35958	1810	1412	28850	32528	1780	
	0	1782	50229	58028	1920	1604	44113	50373	1870	1545	42144	47937	1860	1427	38305	43229	1830	
	5	1796	72294	83968	2020	1619	62781	71893	1990	1560	59767	68172	1960	1442	53974	61075	1920	
	10	1811	117990	140403	2380	1634	99042	115189	2240	1575	93413	107917	2190	1456	82970	94668	2110	
	1 2 0 0	-54	1604	29684	33377	2190	1427	25993	28917	2160	1368	24791	27481	2150	1250	22426	24681	2120
		-35	1664	27965	31712	2000	1487	24634	27631	1970	1428	23546	26314	1960	1310	21404	23743	1940
-30		1680	27997	31820	1960	1503	24691	27756	1930	1444	23612	26444	1920	1325	21485	23884	1900	
-25		1695	28141	32059	1920	1518	24846	27992	1890	1459	23769	26680	1880	1341	21649	24118	1860	
-20		1710	28288	32303	1890	1533	25002	28232	1860	1474	23928	26918	1850	1356	21813	24354	1830	
-15		1725	29086	33302	1860	1548	25724	29121	1830	1489	24626	27772	1820	1371	22458	25135	1800	
-10		1741	31138	35766	1840	1563	27535	31285	1810	1504	26360	29816	1800	1386	24049	26991	1780	
-5		1756	35681	41076	1840	1579	31510	35856	1810	1519	30155	34180	1790	1401	27494	30921	1770	
0		1771	47327	54526	1900	1594	41593	47372	1850	1535	39744	45091	1840	1416	36134	40678	1810	
5		1785	66762	77196	2020	1608	58115	66372	1950	1549	55367	62986	1930	1431	50056	56496	1890	
10	1800	103817	122095	2270	1622	88146	101707	2150	1563	83384	95654	2110	1445	74437	84451	2040		
1 2 0 0	-54	1593	28314	31735	2180	1415	24789	27494	2150	1356	23639	26126	2130	1238	21377	23459	2110	
	-35	1652	26718	30194	1990	1475	23529	26306	1960	1416	22487	25051	1950	1298	20433	22598	1930	
	-30	1668	26746	30294	1950	1491	23582	26422	1920	1432	22548	25171	1910	1314	20510	22729	1890	
	-25	1683	26879	30514	1910	1506	23726	26641	1880	1447	22695	25390	1870	1329	20663	22947	1860	
	-20	1698	27014	30738	1870	1521	23870	26863	1850	1462	22842	25611	1840	1344	20816	23166	1820	
	-15	1713	27752	31658	1840	1536	24538	27682	1820	1477	23488	26399	1810	1359	21419	23893	1790	
	-10	1728	29642	33919	1820	1551	26209	29653	1800	1492	25089	28278	1790	1374	22884	25596	1770	
	-5	1743	33806	38768	1820	1566	29857	33851	1790	1507	28580	32278	1780	1389	26048	29193	1760	
	0	1758	44311	50858	1880	1581	38967	44222	1830	1522	37241	42102	1820	1404	33865	37994	1790	
	5	1773	61269	70521	1980	1596	53443	60811	1910	1537	50958	57758	1890	1419	46104	51854	1860	
10	1787	91322	106314	2180	1610	78203	89552	2070	1551	74150	84473	2040	1433	66462	75003	1980		
1 1 8 0	-54	1582	27026	30217	2170	1405	23655	26175	2130	1346	22554	24871	2120	1228	20387	22325	2100	
	-35	1641	25540	28789	1980	1463	22485	25077	1950	1404	21486	23877	1940	1286	19515	21532	1920	
	-30	1656	25566	28881	1940	1479	22534	25185	1910	1420	21543	23990	1900	1302	19587	21655	1880	
	-25	1671	25689	29084	1900	1494	22668	25388	1870	1435	21679	24194	1860	1317	19730	21858	1850	
	-20	1686	25813	29291	1860	1509	22802	25594	1840	1450	21817	24399	1830	1332	19874	22063	1810	
	-15	1701	26495	30141	1830	1524	23414	26345	1810	1464	22416	25128	1800	1346	20434	22736	1780	
	-10	1716	28240	32222	1810	1539	24965	28168	1790	1480	23896	26860	1780	1361	21789	24308	1760	
	-5	1729	32064	36663	1810	1552	28318	32017	1780	1493	27098	30522	1770	1375	24699	27609	1750	
	0	1746	41574	47580	1850	1568	36578	41397	1810	1509	34961	39418	1800	1391	31796	35579	1770	
	5	1760	56478	64815	1940	1583	49342	55986	1880	1524	47057	53190	1860	1406	42618	47805	1830	
10	1774	81404	94115	2100	1597	70121	79869	2010	1538	66599	75534	1980	1420	59856	67351	1930		
1 1 6 0	-54	1570	25811	28766	2160	1393	22584	24915	2120	1333	21530	23671	2110	1215	19452	21241	2090	
	-35	1630	24406	27385	1970	1453	21484	23859	1940	1394	20527	22717	1930	1276	18639	20483	1920	
	-30	1647	24433	27476	1930	1469	21531	23961	1900	1410	20581	22824	1890	1292	18707	20600	1880	
	-25	1660	24546	27662	1890	1483	21655	24149	1860	1424	20708	23012	1860	1306	18841	20788	1840	
	-20	1675	24661	27852	1850	1498	21779	24339	1830	1439	20836	23202	1820	1321	18975	20978	1800	
	-15	1689	25307	28679	1820	1511	22364	25072	1800	1452	21401	23905	1790	1334	19501	21625	1770	
	-10	1703	26923	30604	1800	1526	23795	26753	1780	1467	22773	25509	1770	1349	20758	23080	1750	
	-5	1718	30443	34676	1800	1541	26884	30286	1770	1482	25724	28871	1760	1364	23448	26120	1740	
	0	1733	39078	44555	1830	1556	34394	38785	1800	1497	32876	36936	1780	1379	29900	33344	1760	
	5	1747	52257	59739	1900	1570	45712	51677	1850	1511	43610	49116	1840	1393	39520	44176	1800	
10	1761	73283	84170	2040	1584	63395	71901	1960	1525	60277	68100	1930	1407	54287	60859	1890		
1 1 4 0	-54	1559	24649	27382	2140	1382	21562	23715	2110	1323	20552	22529	2100	1205	18562	20212	2080	
	-35	1621	23331	26088	1960	1444	20532	22711	1930	1385	19615	21624	1920	1267	17806	19496	1910	
	-30	1636	23353	26148	1920	1459	20576	22805	1890	1400	19666	21723	1880	1282	17870	19604	1870	
	-25	1651	23457	26320	1880	1474	20691	22979	1860	1415	19785	21897	1850	1297	17995	19779	1830	
	-20	1666	23563	26494	1840	1488	20807	23154	1820	1429	19904	22073	1810	1311	18121	19956	1800	
	-15	1679	24162	27256	1810	1502	21349	23831	1790	1443	20428	22723	1780	1325	18610	20554	1770	
	-10	1690	25684	29112	1790	1513	22693	25444	1770	1454	21715	24259	1760	1336	19785	21942	1740	
	-5	1705	28929	32856	1780	1528	25543	28696	1760	1469	24438	27354	1750	1351	22263	24735	1730	
	0	1720	36793	41829	1810	1543	32390	36426	1780	1484	30961	34691	17					



MODEL 525A

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

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
1000	-54	1541	22491	24767	2120	1364	19686	21454	2090	1305	18741	20381	2080	1187	16915	18281	2070
	-35	1604	21331	23578	1940	1427	18766	20551	1920	1368	17925	19569	1910	1250	16263	17643	1890
	-30	1619	21350	23647	1900	1442	18805	20633	1890	1382	17970	19655	1870	1264	16321	17738	1850
	-25	1633	21439	23791	1860	1456	18905	20781	1840	1397	18074	19804	1830	1279	16431	17889	1820
	-20	1648	21529	23938	1830	1471	19006	20930	1800	1412	18178	19954	1800	1294	16541	18041	1780
	-15	1659	22058	24633	1790	1482	19482	21543	1770	1423	18638	20541	1770	1305	16969	18578	1750
	-10	1669	23370	26233	1770	1492	20641	22934	1750	1433	19747	21865	1740	1315	17982	19774	1730
	-5	1679	26184	29540	1760	1502	23108	25795	1740	1443	22102	24585	1730	1325	20119	22220	1710
	0	1694	32756	36993	1780	1517	28840	32229	1750	1458	27565	30696	1740	1339	25061	27709	1720
	5	1708	42144	47710	1820	1531	36953	41389	1780	1472	35275	39369	1770	1354	31993	35450	1740
10	1722	55652	63188	1900	1545	48473	54440	1840	1486	46176	51671	1820	1368	41718	46341	1790	
1050	-54	1526	20059	21725	2100	1349	17540	18845	2070	1290	16714	17909	2060	1172	15077	16069	2050
	-35	1591	19074	20675	1920	1414	16783	18051	1900	1355	16031	17197	1890	1237	14542	15518	1880
	-30	1605	19088	20726	1880	1428	16815	18115	1860	1369	16069	17265	1850	1251	14592	15595	1840
	-25	1620	19162	20838	1840	1443	16899	18233	1820	1384	16156	17384	1820	1266	14686	15718	1800
	-20	1635	19236	20952	1810	1458	16984	18351	1790	1399	16244	17504	1780	1280	14780	15841	1770
	-15	1645	19674	21520	1770	1468	17380	18854	1750	1409	16627	17986	1750	1291	15136	16282	1740
	-10	1649	20797	22950	1750	1472	18365	20085	1730	1413	17567	19154	1720	1295	15990	17328	1710
	-5	1651	23183	25836	1740	1473	20448	22566	1710	1414	19552	21506	1710	1296	17782	19431	1690
	0	1660	28560	31962	1750	1483	25137	27850	1720	1424	24019	26523	1710	1306	21820	23931	1690
	5	1674	35847	40205	1770	1497	31455	34923	1740	1438	30030	33227	1730	1320	27234	29928	1710
10	1688	45701	51388	1820	1511	39920	44425	1770	1452	38057	42206	1760	1334	34423	37311	1730	
1000	-54	1513	17936	19080	2080	1336	15684	16578	2050	1277	14944	15762	2050	1159	13480	14157	2030
	-35	1577	17105	18183	1900	1400	15050	15902	1880	1341	14374	15158	1880	1223	13036	13689	1860
	-30	1592	17116	18220	1860	1415	15078	15951	1840	1356	14407	15210	1840	1237	13079	13751	1820
	-25	1606	17177	18307	1820	1429	15149	16045	1810	1370	14482	15306	1800	1252	13160	13851	1790
	-20	1620	17239	18395	1790	1443	15220	16139	1770	1384	14556	15402	1770	1266	13241	13951	1750
	-15	1631	17605	18861	1760	1454	15553	16552	1740	1395	14878	15799	1730	1277	13541	14315	1720
	-10	1635	18541	20037	1730	1457	16375	17566	1710	1398	15663	16761	1710	1280	14254	15177	1690
	-5	1630	20559	22527	1720	1453	18130	19697	1700	1394	17332	18777	1690	1276	15756	16971	1680
	0	1625	25094	27850	1720	1448	22066	24257	1700	1389	21075	23094	1690	1271	19122	20819	1670
	5	1639	30871	34331	1740	1462	27087	29834	1700	1403	25855	28384	1700	1285	23432	25558	1680
10	1653	38322	42712	1760	1476	33517	36992	1720	1417	31961	35158	1710	1299	28914	31597	1690	
950	-54	1500	16076	16781	2060	1323	14056	14605	2040	1264	13392	13893	2030	1146	12075	12488	2020
	-35	1564	15372	16008	1880	1387	13523	14023	1870	1328	12914	13373	1860	1210	11707	12089	1850
	-30	1578	15381	16033	1850	1401	13547	14081	1830	1342	12943	13415	1820	1224	11745	12139	1810
	-25	1592	15432	16099	1810	1415	13608	14135	1790	1356	13007	13491	1790	1238	11815	12220	1780
	-20	1607	15484	16166	1770	1430	13669	14209	1760	1370	13071	13568	1750	1252	11885	12301	1740
	-15	1617	15793	16550	1740	1440	13950	14551	1730	1381	13343	13896	1720	1263	12140	12603	1710
	-10	1620	16579	17523	1710	1443	14641	15391	1700	1384	14003	14693	1690	1266	12740	13318	1680
	-5	1615	18255	19570	1700	1438	16099	17143	1680	1379	15390	16351	1670	1261	13988	14794	1660
	0	1598	22054	24149	1700	1421	19381	21040	1670	1362	18505	20031	1670	1243	16775	18053	1650
	5	1603	26778	29521	1700	1426	23478	25648	1680	1367	22401	24396	1670	1249	20279	21949	1650
10	1617	32542	35947	1720	1440	28467	31156	1690	1381	27143	29614	1680	1262	24542	26610	1650	
900	-54	1486	14434	14888	2040	1309	12816	12968	2020	1250	12017	12339	2020	1132	10830	11094	2000
	-35	1550	13834	14219	1870	1373	12165	12468	1850	1314	11615	11892	1850	1196	10524	10754	1840
	-30	1564	13840	14237	1830	1387	12186	12498	1820	1328	11640	11926	1810	1210	10558	10796	1800
	-25	1578	13884	14290	1790	1401	12238	12558	1780	1342	11696	11989	1780	1224	10619	10864	1770
	-20	1592	13928	14343	1760	1415	12291	12619	1750	1356	11751	12053	1740	1238	10680	10932	1730
	-15	1602	14191	14665	1730	1425	12531	12906	1710	1366	11984	12329	1710	1248	10898	11186	1700
	-10	1605	14855	15483	1700	1428	13115	13612	1690	1369	12542	12999	1680	1251	11405	11788	1670
	-5	1600	16253	17188	1680	1422	14332	15072	1660	1363	13699	14380	1660	1245	12446	13015	1650
	0	1581	19367	20949	1670	1403	17021	18271	1650	1344	16250	17399	1650	1226	14726	15686	1640
	5	1570	23297	25615	1670	1393	20409	22237	1650	1334	19463	21142	1640	1216	17598	18999	1630
10	1579	27890	30813	1680	1402	24382	26684	1650	1343	23238	25352	1640	1225	20988	22751	1630	
850	-54	1472	12970	13235	2030	1295	11330	11536	2010	1236	10790	10977	2000	1118	9717	9870	1990
	-35	1535	12456	12654	1860	1358	10948	11103	1840	1299	10450	10592	1840	1181	9462	9579	1830
	-30	1549	12462	12667	1820	1372	10966	11127	1810	1313	10472	10620	1800	1195	9492	9614	1790
	-25	1563	12499	12709	1780	1386	11012	11177	1770	1327	10521	10672	1760	1209	9546	9672	1760
	-20	1577	12537	12752	1750	1400	11057	11227	1730	1341	10569	10725	1730	1223	9600	9729	1720
	-15	1587	12760	13023	1720	1409	11262	11469	1700	1350	10767	10958	1700	1232	9786	9944	1690
	-10	1589	13323	13714	1690	1412	11756	12065	1670	1353	11240	11523	1670	1235	10214	10451	1660
	-5	1583	14496	15144	1670	1406	12777	13289	1650	1347	12211	12680	1650	1229	11087	11479	1640
	0	1561	17064	18248	1660	1384	14994	15927	1640	1325	14313	15170	1630	1208	12965	13679	1620
	5	1547	20264	22114	1650	1370	17746	19200	1630	1311	16920	18254	1620	1193	15288	16398	1610
10	1542	24026	26554	1650	1365	20982	22968	1630	1306	19987	21806	1620	1188	18024	19537	1600	

Figure 4-29 (Sheet 14)



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

**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 2 3 7 5	-54	1641	29405	33421	2180	1463	25827	29025	2140	1404	24660	27609	2130	1286	22366	24850	2110
	-35	1704	29648	34008	2000	1527	26165	29665	1970	1468	25029	28267	1960	1350	22793	25540	1940
	-30	1719	29812	34300	1960	1541	26337	29946	1930	1482	25203	28544	1920	1364	22972	25811	1900
	-25	1734	30142	34816	1930	1557	26649	30413	1900	1498	25510	28996	1880	1380	23269	26235	1870
	-20	1749	30468	35332	1890	1572	26958	30878	1860	1513	25814	29446	1850	1395	23563	26657	1830
	-15	1766	32683	38175	1870	1589	28900	33320	1840	1529	27666	31760	1830	1411	25249	28733	1810
	-10	1781	35965	42418	1860	1604	31744	36917	1830	1545	30376	35162	1820	1427	27699	31765	1790
	-5	1797	45168	53593	1900	1620	39670	46373	1860	1560	37903	44091	1840	1442	34467	39702	1820
	0	1812	64681	77691	2030	1635	56063	66184	1960	1576	53354	62632	1930	1458	48156	55910	1890
	5	1827	108475	135228	2330	1650	90112	109106	2190	1591	84761	101767	2150	1473	74938	88590	2070
7	1833	157862	212924	2700	1656	120190	153870	2410	1597	111174	138717	2340	1479	95802	115353	2220	
1 2 0 0	-54	1631	28233	31983	2160	1453	24794	27777	2130	1394	23672	26421	2120	1276	21463	23778	2100
	-35	1692	28457	32527	1990	1515	25110	28375	1960	1456	24018	27036	1950	1338	21866	24425	1930
	-30	1708	28609	32797	1950	1531	25271	28636	1920	1472	24181	27294	1910	1354	22035	24678	1890
	-25	1724	28914	33272	1920	1547	25561	29067	1890	1488	24467	27713	1880	1370	22313	25072	1860
	-20	1739	29215	33747	1880	1562	25840	29490	1850	1503	24749	28130	1840	1385	22587	25464	1820
	-15	1755	31266	36363	1860	1578	27647	31747	1830	1519	26468	30264	1820	1401	24153	27383	1800
	-10	1770	34284	40237	1850	1593	30269	35041	1820	1534	28967	33381	1810	1416	26415	30164	1780
	-5	1786	42671	50351	1880	1609	37511	43628	1840	1550	35850	41498	1830	1431	32611	37392	1800
	0	1801	59884	71395	1990	1624	52058	61057	1920	1565	49585	57847	1900	1447	44820	51742	1870
	5	1816	94998	116244	2230	1639	80103	95741	2110	1580	75634	89757	2080	1461	67296	78793	2070
8	1825	152377	202538	2650	1648	117548	148285	2380	1589	108911	134045	2310	1470	94051	112551	2200	
1 2 0 0	-54	1619	26967	30470	2150	1442	23676	26460	2120	1383	22602	25166	2110	1265	20485	22642	2090
	-35	1680	27172	30971	1980	1503	23970	27015	1950	1444	22925	25739	1940	1326	20864	23247	1920
	-30	1696	27311	31219	1940	1519	24119	27256	1910	1460	23076	25978	1900	1342	21021	23482	1880
	-25	1712	27590	31654	1900	1534	24386	27653	1870	1475	23340	26363	1870	1357	21278	23846	1850
	-20	1727	27866	32088	1870	1550	24650	28048	1840	1491	23600	26746	1830	1373	21533	24207	1810
	-15	1742	29754	34484	1850	1565	26304	30107	1820	1506	25182	28702	1810	1388	22975	25967	1790
	-10	1758	32498	37986	1830	1581	28699	33099	1800	1521	27465	31535	1790	1403	25044	28499	1770
	-5	1773	40071	47066	1860	1596	35246	40823	1820	1537	33700	38851	1810	1419	30685	35026	1790
	0	1788	55118	65302	1950	1611	48042	56041	1890	1552	45793	53147	1870	1434	41448	47622	1840
	5	1803	83431	100729	2140	1626	71102	84142	2040	1567	67328	79176	2010	1449	60208	69943	1950
9	1815	142435	186304	2570	1638	112109	138418	2330	1579	104213	126424	2270	1461	90406	107450	2160	
1 8 0 0	-54	1607	25773	29022	2140	1430	22621	25199	2110	1371	21591	23965	2100	1253	19561	21555	2080
	-35	1668	25959	29482	1970	1491	22895	25714	1940	1432	21893	24497	1930	1314	19917	22121	1910
	-30	1684	26087	29709	1930	1507	23032	25936	1900	1448	22033	24718	1890	1330	20064	22339	1870
	-25	1699	26344	30107	1890	1522	23279	26301	1870	1463	22277	25072	1860	1345	20302	22674	1840
	-20	1715	26597	30503	1860	1537	23523	26663	1830	1478	22518	25424	1820	1360	20538	23007	1800
	-15	1730	28328	32888	1840	1553	25046	28549	1810	1494	23976	27217	1800	1376	21869	24622	1780
	-10	1745	30839	35869	1820	1568	27238	31270	1790	1509	26067	29795	1780	1391	23766	26929	1760
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10	1805	134204	172343	2490	1628	107179	130219	2280	1569	99897	120068	2230	1451	86989	102624	2130	
1 6 0 0	-54	1598	24622	27618	2130	1421	21607	23983	2100	1362	20621	22808	2090	1244	18678	20512	2070
	-35	1657	24799	28060	1960	1480	21867	24474	1930	1421	20908	23315	1920	1303	19015	21049	1900
	-30	1674	24920	28277	1920	1497	21996	24686	1890	1438	21040	23525	1880	1320	19157	21261	1870
	-25	1687	25160	28657	1880	1510	22228	25033	1860	1451	21269	23862	1850	1333	19377	21574	1830
	-20	1702	25399	29036	1850	1525	22457	25379	1820	1466	21491	24194	1810	1348	19598	21891	1800
	-15	1718	26996	31046	1820	1540	23865	27116	1800	1481	22842	25850	1790	1363	20829	23381	1770
	-10	1732	29295	33943	1810	1555	25875	29599	1780	1496	24761	28204	1770	1378	22572	25492	1750
	-5	1749	35538	41341	1830	1572	31300	35932	1790	1513	29928	34206	1780	1394	27240	30860	1760
	0	1762	47297	55369	1890	1585	41378	47756	1840	1526	39482	45355	1820	1408	35798	40741	1790
	5	1777	67031	79378	2010	1600	57845	67375	1940	1541	54966	63680	1910	1423	49456	56698	1870
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1 4 0 0	-54	1589	23530	26259	2120	1412	20646	22807	2090	1353	19702	21690	2080	1234	17840	19506	2060
	-35	1648	23691	26662	1950	1471	20887	23260	1920	1412	19969	22159	1910	1294	18157	20005	1900
	-30	1663	23802	26859	1910	1486	21007	23454	1880	1427	20092	22352	1880	1309	18286	20196	1860
	-25	1678	24023	27206	1870	1501	21221	23771	1850	1442	20304	22661	1840	1323	18494	20489	1820
	-20	1692	24242	27551	1840	1515	21433	24088	1810	1456	20513	22968	1800	1338	18699	20780	1790
	-15	1704	25742	29475	1810	1527	22751	25744	1790	1468	21774	24542	1780	1350	19848	22195	1760
	-10	1719	27854	32121	1800	1542	24601	28017	1770	1483	23540	26698	1760	1365	21454	24129	1740
	-5	1734	33547	38827	1810	1557	29557	33771	1780	1498	28262	32153	1770	1380	25249	29016	1750
	0	1749	44038	51250	1860	1572	38577	44285	1820	1513	36621						



MODEL 525A

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

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	1573	21499	23729	2100	1396	18860	20622	2070	1337	17995	19815	2060	1219	16288	17641	2040
	-35	1630	21641	24085	1930	1453	19075	21022	1910	1394	18233	20029	1900	1276	16571	18083	1880
	-30	1645	21738	24260	1890	1468	19180	21193	1870	1409	18341	20199	1860	1291	16684	18252	1840
	-25	1659	21932	24568	1850	1481	19367	21475	1830	1422	18527	20473	1820	1304	16866	18510	1810
	-20	1672	22122	24871	1820	1495	19551	21753	1800	1436	18709	20743	1790	1318	17045	18766	1770
	-15	1684	23400	26488	1790	1507	20679	23151	1770	1448	19788	22072	1760	1330	18030	19963	1750
	-10	1695	25217	28793	1770	1518	22268	25128	1750	1459	21305	23946	1740	1341	19407	21642	1730
	-5	1708	30013	34433	1780	1531	26450	29976	1750	1472	25291	28545	1740	1354	23013	25763	1720
	0	1723	38481	44339	1820	1545	33767	38412	1780	1486	32244	36524	1770	1368	29268	32874	1740
	5	1739	51209	59388	1880	1562	44592	51004	1830	1503	42482	48370	1810	1385	38393	43321	1780
10	1751	72323	84889	2010	1574	62014	71598	1930	1515	58806	67537	1910	1397	52896	59899	1860	
1 0 5 0 0	-54	1580	19216	20822	2070	1383	18861	18127	2050	1324	16088	17250	2040	1206	14559	15528	2030
	-35	1617	19329	21094	1910	1440	17040	18443	1890	1381	16289	17581	1880	1263	14802	15887	1870
	-30	1631	19407	21230	1870	1454	17127	18579	1850	1395	16379	17716	1840	1277	14897	16023	1830
	-25	1645	19565	21471	1830	1468	17282	18802	1810	1409	16532	17935	1810	1290	15046	16228	1790
	-20	1658	19720	21712	1800	1481	17433	19025	1780	1422	16683	18152	1770	1304	15198	16438	1760
	-15	1665	20794	23103	1770	1488	18377	20221	1750	1429	17584	19287	1740	1311	16018	17456	1730
	-10	1670	22310	25074	1750	1493	19699	21605	1730	1434	18845	20881	1720	1316	17158	18876	1710
	-5	1674	26273	29836	1750	1497	23147	25984	1720	1438	22128	24744	1720	1319	20120	22327	1700
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	5	1703	42232	48340	1810	1526	36907	41719	1770	1466	35194	39618	1780	1348	31856	35564	1730
10	1717	56106	64666	1890	1539	48601	55251	1830	1480	46221	52310	1810	1362	41628	46695	1780	
1 0 0 0 0	-54	1547	17223	18296	2050	1370	15113	15955	2030	1311	14419	15191	2030	1193	13045	13687	2010
	-35	1603	17314	18498	1890	1426	15264	16202	1870	1367	14590	15453	1860	1249	13254	13978	1850
	-30	1617	17377	18602	1850	1440	15336	16309	1830	1381	14665	15561	1830	1263	13336	14087	1810
	-25	1631	17506	18791	1810	1454	15464	16487	1800	1395	14793	15734	1790	1276	13463	14254	1780
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	-15	1651	18519	20100	1750	1474	16370	17630	1730	1415	15664	16826	1730	1297	14267	15246	1720
	-10	1656	19758	21673	1730	1478	17454	18979	1710	1419	16698	18104	1700	1301	15204	16388	1690
	-5	1646	23090	25819	1720	1468	20339	22507	1700	1409	19439	21437	1690	1291	17664	19344	1680
	0	1653	28439	32030	1730	1476	24982	27827	1710	1417	23857	26476	1700	1299	21644	23843	1680
	5	1667	35546	40171	1760	1490	31118	34766	1720	1431	29684	33039	1710	1313	26879	29690	1690
10	1681	45351	51484	1800	1504	39473	44273	1760	1445	37598	42001	1740	1327	33939	37613	1720	
9 5 0 0	-54	1534	15467	16115	2040	1357	13570	14077	2020	1298	12945	13410	2010	1180	11707	12092	2000
	-35	1590	15540	16263	1870	1413	13698	14269	1880	1353	13091	13616	1850	1235	11889	12328	1840
	-30	1604	15592	16343	1830	1426	13759	14353	1820	1367	13155	13702	1810	1249	11958	12416	1800
	-25	1617	15699	16491	1800	1440	13866	14495	1780	1381	13263	13841	1780	1262	12066	12551	1770
	-20	1630	15804	16639	1760	1453	13971	14635	1750	1394	13368	13979	1740	1275	12172	12685	1730
	-15	1636	16543	17552	1740	1459	14624	15426	1720	1400	13992	14731	1710	1282	12742	13362	1700
	-10	1640	17569	18824	1710	1463	15523	16520	1690	1404	14851	15769	1690	1286	13520	14292	1680
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	5	1631	30355	33949	1720	1454	26584	29416	1690	1395	25358	27961	1680	1276	22951	25128	1660
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9 0 0 0	-54	1520	13908	14194	2020	1343	12198	12420	2000	1284	11634	11838	2000	1166	10516	10684	1990
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	-30	1589	14011	14357	1820	1412	12360	12632	1810	1353	11815	12066	1800	1235	10735	10944	1790
	-25	1602	14100	14473	1780	1425	12451	12745	1770	1366	11907	12177	1760	1248	10828	11054	1750
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	-15	1621	14811	15337	1720	1444	13090	13506	1710	1385	12523	12906	1700	1267	11399	11720	1690
	-10	1625	15669	16374	1690	1448	13844	14402	1680	1389	13243	13756	1670	1271	12053	12482	1660
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	0	1592	21611	23660	1680	1415	18970	20586	1660	1356	18106	19589	1650	1238	16399	17638	1640
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8 5 0 0	-54	1506	12514	12697	2010	1329	10969	11112	1990	1270	10460	10590	1990	1152	9447	9554	1980
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	-25	1585	12675	12926	1770	1408	11186	11385	1760	1349	10695	10877	1750	1231	9720	9872	1750
	-20	1599	12749	13023	1740	1422	11262	11479	1720	1363	10772	10971	1720	1245	9798	9964	1710
	-15	1605	13277	13657	1710	1428	11727	12027	1690	1369	11219	11495	1690	1251	10207	10437	1680
	-10	1609	14002	14532	1680	1432	12366	12785	1670	1373	11828	12213	1660	1255	10759	11081	1650
	-5	1594	15892	16872	1660	1417	14003	14776	1650	1357	13381	14092	1640	1239	12149	12743	1630
	0	1574	18860	20524	1660	1397	16559	17869	1640	1338	15804	17007	1630	1220	14312	15314	



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

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	30309	34687	2170	1491	26685	30159	2130	1432	25477	28703	2120	1314	23143	25867	2100
	-35	1732	30589	35331	2000	1555	27039	30860	1960	1496	25882	29421	1950	1378	23604	26616	1930
	-30	1748	31216	36205	1960	1571	27811	31635	1930	1512	26437	30166	1920	1394	24127	27304	1900
	-25	1764	31985	37266	1930	1587	28306	32570	1900	1528	27108	31060	1890	1410	24752	28124	1860
	-20	1780	33372	39088	1900	1603	29534	34150	1870	1544	28286	32566	1860	1426	25385	29487	1840
	-15	1796	38443	45460	1910	1619	33930	39575	1870	1560	32471	37698	1860	1442	29615	34066	1830
	-10	1812	46289	55448	1940	1635	40643	47947	1890	1576	38834	45581	1870	1458	35314	41033	1840
	-5	1828	65683	80073	2060	1651	56819	68200	1990	1592	54035	64457	1960	1473	48710	57405	1920
	0	1843	117748	146071	2430	1666	97554	119033	2270	1607	91584	111134	2230	1489	80606	96735	2140
	4					1679	232564	309037	3300	1620	199815	255109	3040	1502	158783	194965	2720
5													1503	212285	270468	3130	
1 2 0 0 0	-54	1658	29077	33189	2160	1481	25577	28857	2120	1422	24437	27463	2110	1304	22192	24745	2090
	-35	1721	29335	33789	1990	1544	25935	29521	1950	1485	24816	28137	1940	1367	22627	25451	1920
	-30	1737	29916	34597	1950	1560	26460	30233	1920	1501	25333	28828	1910	1383	23114	26090	1890
	-25	1753	30628	35577	1920	1576	27104	31097	1890	1517	25955	29656	1880	1399	23696	26850	1860
	-20	1769	31309	37255	1890	1592	28241	32555	1860	1533	27052	31051	1850	1415	24700	28111	1830
	-15	1785	36567	43080	1890	1608	32286	37526	1860	1549	30900	35752	1840	1431	28184	32315	1820
	-10	1801	43658	52051	1910	1624	38374	45076	1870	1565	36675	42868	1860	1446	33359	38610	1830
	-5	1816	60639	73559	2020	1639	52615	62739	1950	1580	50087	59376	1930	1462	45235	53009	1890
	0	1832	102106	125729	2310	1655	85701	103959	2180	1596	80757	97346	2140	1478	71540	85314	2070
	5					1671	208228	264118	3100	1612	185437	230425	2920	1494	151617	183299	2660
6													1494	193556	239193	2970	
1 2 0 0 0	-54	1647	27747	31584	2140	1469	24403	27461	2110	1410	23312	26132	2100	1292	21164	23541	2080
	-35	1709	27983	32139	1970	1532	24728	28071	1940	1473	23665	26760	1930	1355	21572	24200	1910
	-30	1725	28517	32880	1940	1548	25213	28726	1910	1489	24142	27396	1900	1371	22022	24790	1880
	-25	1741	29170	33776	1900	1564	25811	29524	1870	1505	24715	28156	1860	1387	22559	25488	1850
	-20	1757	30343	35306	1880	1579	26855	30858	1850	1520	25718	29428	1840	1402	23483	26644	1820
	-15	1772	34581	40581	1870	1595	30543	35370	1840	1536	29233	33702	1830	1418	26664	30467	1810
	-10	1788	40930	48563	1890	1611	36010	42111	1850	1552	34425	40064	1840	1434	31331	36114	1810
	-5	1804	55646	67056	1980	1626	48434	57380	1920	1567	46149	54370	1900	1449	41747	48647	1860
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	5	1834	195483	246122	3000	1657	151150	183526	2650	1597	139615	167978	2560	1479	119390	141648	2400
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1 8 0 0 0	-54	1635	26495	30051	2130	1458	23296	26126	2100	1399	22252	24861	2090	1281	20193	22391	2070
	-35	1697	26711	30562	1960	1520	23598	26693	1930	1460	22581	25444	1920	1342	20576	23006	1910
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	-25	1728	27802	32060	1890	1551	24597	28027	1860	1492	23550	26727	1850	1374	21489	24191	1840
	-20	1744	28879	33458	1860	1567	25557	29247	1830	1508	24473	27892	1830	1390	22341	25252	1810
	-15	1760	32745	38243	1860	1582	28928	33347	1830	1523	27687	31779	1820	1405	25253	28733	1800
	-10	1775	38454	45366	1870	1598	33858	39385	1830	1539	32373	37482	1820	1421	29472	33805	1800
	-5	1791	51325	61364	1940	1614	44783	52688	1890	1555	42703	49975	1870	1436	38676	44790	1840
	0	1806	78321	94973	2120	1629	66932	79954	2030	1570	63406	75361	2000	1452	56737	66575	1950
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8					1652	214125	262615	3110	1593	192553	233048	2940	1475	158768	188321	2680	
1 6 0 0 0	-54	1624	25299	28567	2120	1447	22240	24839	2090	1388	21241	23635	2080	1270	19270	21284	2060
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	5	1808	120856	147719	2410	1631	99416	119651	2250	1572	93131	111465	2200	1453	81614	96607	2110
9	1819	260973	325234	3460	1642	192351	230600	2930	1583	175597	208671	2800	1465	147684	172859	2590	
1 4 0 0 0	-54	1615	24157	27156	2110	1438	21234	23616	2080	1379	20278	22472	2070	1261	18392	20236	2050
	-35	1675	24345	27610	1940	1498	21501	24119	1910	1439	20569	22989	1910	1321	18732	20782	1890
	-30	1690	24766	28192	1900	1513	21890	24641	1880	1454	20949	23493	1870	1336	19093	21250	1850
	-25	1705	25279	28892	1870	1528	22358	25263	1840	1469	21403	24091	1840	1351	19520	21802	1820
	-20	1720	26202	30098	1840	1542	23188	26323	1810	1483	22196	25097	1810	1365	20251	22716	1790
	-15	1734	29461	34118	1830	1556	26029	29770	1800	1497	24911	28372	1790	1379	22713	25652	1770
	-10	1749	34131	39872	1840	1572	30080	34673	1800	1513	28767	33012	1790	1395	26193	29792	1770
	-5	1764	44197	52166	1880	1587	38698	45007	1840	1528	36936	42748	1820	1410	33507	38404	1800
	0	1779	63206	75618	2000	1602	54566	64158	1930	1543	51859	60633	1910	1425	46673	53971	1870
	5	1794	101392	122957	2260	1617	84834	101261	2130								



MODEL 525A

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

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	1598	22046	24514	2090	1421	19374	21331	2060	1362	18499	20300	2050	1244	16771	18281	2030
	-35	1656	22213	24923	1920	1479	19611	21780	1900	1420	18759	20761	1890	1302	17074	18767	1870
	-20	1670	22576	25426	1880	1493	19949	22231	1860	1434	19087	21197	1850	1316	17387	19172	1840
	-15	1685	23012	26011	1850	1508	20349	22755	1830	1449	19476	21701	1820	1331	17754	19639	1800
	-10	1699	23796	27022	1820	1522	21051	23641	1800	1463	20153	22548	1790	1345	18380	20412	1770
	-5	1710	24573	30461	1810	1533	23478	26596	1780	1474	22467	25350	1770	1356	20477	22922	1760
	0	1722	30474	35271	1800	1545	26868	30703	1770	1486	25695	29239	1770	1368	23393	26394	1750
	5	1737	38530	44985	1840	1560	33807	38914	1800	1501	32285	36992	1790	1383	29312	33281	1760
	10	1752	52612	61969	1910	1575	45729	53045	1860	1516	43542	50256	1840	1398	39321	44936	1810
	10	1767	76737	91553	2070	1590	65442	76882	1980	1531	61949	72338	1950	1413	55343	63871	1900
1050	-54	1585	19688	21435	2060	1408	17289	18687	2040	1349	16509	17794	2030	1231	14966	16040	2020
	-35	1642	19800	21748	1900	1465	17487	19041	1880	1406	16727	18161	1870	1288	15224	16433	1860
	-20	1657	20099	22147	1860	1480	17765	19402	1840	1421	16999	18510	1830	1302	15484	16760	1820
	-15	1671	20459	22624	1830	1493	18098	19830	1810	1434	17323	18923	1800	1316	15790	17143	1790
	-10	1683	21110	23464	1800	1506	18681	20566	1780	1446	17884	19626	1770	1328	16309	17784	1750
	-5	1684	23410	26368	1780	1507	20686	23052	1760	1448	19794	21980	1750	1330	18036	19885	1740
	0	1692	26567	30286	1770	1515	23430	26400	1750	1456	22407	25149	1740	1338	20394	22711	1720
	5	1703	32865	37837	1790	1526	28875	32823	1780	1467	27582	31221	1750	1348	25048	28115	1730
	10	1717	43048	49873	1840	1540	37590	42963	1800	1481	35839	40779	1780	1363	32433	36575	1750
	10	1732	58378	68229	1930	1555	50436	58060	1860	1496	47931	54904	1840	1378	43111	48903	1810
1000	-54	1572	17601	18807	2040	1395	15474	16424	2020	1336	14774	15647	2010	1217	13390	14118	2000
	-35	1629	17707	19043	1880	1451	15639	16702	1860	1392	14959	15939	1850	1274	13612	14436	1840
	-20	1643	17954	19360	1840	1466	15871	16992	1820	1407	15186	16220	1820	1288	13831	14701	1810
	-15	1656	18251	19739	1810	1479	16147	17335	1790	1420	15455	16552	1780	1302	14086	15011	1770
	-10	1668	18787	20411	1780	1491	16629	17928	1760	1432	15915	17114	1750	1314	14517	15529	1740
	-5	1671	20662	22730	1760	1494	18267	19920	1740	1435	17482	19007	1730	1317	15930	17218	1720
	0	1671	23233	25965	1740	1494	20500	22678	1720	1435	19606	21615	1710	1316	17843	19517	1700
	5	1668	28325	32224	1750	1490	24889	27982	1730	1431	23773	26623	1720	1313	21582	23979	1700
	10	1682	35977	41136	1780	1505	31487	35559	1750	1445	30038	33783	1730	1327	27203	30344	1710
	10	1696	46567	53537	1830	1519	40493	45943	1790	1460	38552	43550	1770	1342	34785	38956	1740
950	-54	1558	15785	16518	2020	1381	13876	14452	2010	1322	13247	13775	2000	1204	12002	12442	1990
	-35	1617	15870	16691	1860	1439	14015	14667	1850	1380	13405	14004	1840	1262	12194	12697	1830
	-20	1629	16076	16944	1830	1451	14210	14900	1810	1392	13596	14231	1800	1274	12379	12912	1790
	-15	1642	16324	17245	1790	1465	14442	15175	1770	1406	13822	14498	1770	1288	12594	13163	1760
	-10	1654	16769	17786	1760	1477	14844	15654	1740	1418	14210	14957	1740	1300	12955	13584	1730
	-5	1656	18312	19653	1740	1479	16194	17263	1720	1420	15499	16484	1710	1302	14122	14952	1700
	0	1655	20392	22216	1720	1478	18004	19455	1700	1419	17222	18559	1700	1301	15675	16801	1680
	5	1639	24547	27449	1720	1462	21581	23880	1700	1403	20613	22728	1690	1285	18707	20482	1680
	10	1645	30578	34523	1740	1468	26785	29897	1710	1409	25554	28415	1700	1290	23139	25535	1680
	10	1659	38309	43413	1770	1482	33417	37422	1730	1423	31840	35516	1720	1305	28764	31833	1690
900	-54	1545	14176	14518	2010	1367	12458	12726	1990	1308	11892	12137	1990	1190	10769	10972	1970
	-35	1600	14244	14640	1850	1423	12576	12889	1830	1364	12026	12313	1830	1246	10935	11175	1820
	-20	1614	14417	14841	1810	1437	12741	13077	1800	1378	12192	12501	1790	1260	11092	11351	1780
	-15	1627	14625	15082	1780	1450	12936	13298	1760	1391	12379	12713	1760	1273	11275	11555	1750
	-10	1639	14998	15518	1740	1462	13274	13687	1730	1403	12706	13086	1720	1284	11579	11898	1710
	-5	1641	16279	17031	1720	1464	14398	14996	1700	1405	13778	14329	1700	1287	12551	13014	1690
	0	1640	17989	19092	1700	1462	15887	16762	1680	1403	15196	16002	1680	1285	13831	14507	1670
	5	1622	21330	23238	1700	1445	18768	20277	1680	1386	17929	19316	1670	1268	16274	17435	1660
	10	1611	26223	29170	1700	1433	22973	25294	1680	1374	21915	24046	1670	1256	19833	21613	1650
	10	1620	32142	35963	1720	1443	28068	31067	1690	1384	26748	29499	1680	1266	24161	26455	1660
850	-54	1530	12738	12946	1990	1353	11189	11351	1980	1294	10678	10826	1970	1175	9663	9786	1960
	-35	1585	12793	13041	1830	1408	11290	11485	1820	1349	10793	10973	1820	1230	9808	9958	1810
	-20	1598	12940	13208	1800	1421	11430	11642	1780	1362	10932	11127	1780	1244	9943	10106	1770
	-15	1611	13115	13409	1760	1434	11595	11828	1750	1375	11094	11308	1740	1257	10099	10278	1740
	-10	1623	13429	13773	1730	1446	11881	12154	1720	1387	11370	11621	1710	1268	10357	10567	1700
	-5	1624	14507	15043	1710	1447	12826	13251	1690	1388	12273	12663	1690	1270	11174	11502	1680
	0	1623	15926	16750	1680	1446	14065	14717	1670	1386	13452	14052	1660	1268	12239	12742	1650
	5	1605	18640	20126	1670	1427	16406	17580	1660	1368	15673	16752	1650	1250	14224	15127	1640
	10	1586	22537	24956	1680	1409	19752	21656	1650	1350	18841	20590	1650	1232	17047	18506	1630
	10	1581	27258	30638	1680	1403	23802	26454	1650	1344	22678	25110	1650	1226	20468	22493	1630
10	1592	33101	37378	1700	1415	28814	32157	1660	1356	27426	30489	1650	1238	24712	27258	1630	

Figure 4-29 (Sheet 18)



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

**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	31798	36804	2170	1520	28001	32008	2130	1461	26766	30469	2120	1343	24340	27476	2090
	-40	1745	32116	37485	2040	1568	28377	32697	2000	1509	27160	31161	1990	1391	24768	28174	1970
	-35	1762	32391	37904	2000	1585	28650	33097	1960	1525	27433	31555	1950	1407	25041	28555	1930
	-30	1778	33610	39461	1970	1601	29742	34467	1930	1542	28484	32866	1920	1424	26014	29754	1900
	-25	1795	34939	41159	1940	1618	30920	35949	1900	1559	29617	34283	1890	1440	27081	31047	1870
	-20	1811	39059	46125	1940	1634	34539	40253	1900	1575	33075	38376	1890	1457	30206	34737	1860
	-15	1827	47388	56021	1970	1650	41773	48745	1920	1591	39964	46431	1910	1473	36434	41960	1880
	-10	1843	64120	76033	2070	1666	56074	65630	2000	1607	53512	62359	1980	1489	48554	56088	1940
	-5	1860	106379	126861	2370	1682	90872	106937	2250	1623	86094	100863	2210	1505	77057	89468	2130
	-2 0					1693	149868	202626	2690	1634	133161	176680	2560	1515	115970	142466	2420
													1522	223812	302834	3280	
1 2 2 0 0 0	-54	1686	30460	35156	2150	1509	26823	30578	2120	1450	25638	29108	2110	1332	23310	26246	2080
	-45	1718	30752	35898	2070	1540	27136	31105	2040	1481	25959	29630	2030	1363	23644	26760	2000
	-40	1734	30752	35784	2030	1557	27171	31219	1990	1498	26005	29752	1980	1380	23712	26899	1960
	-35	1751	31006	36172	1990	1574	27426	31591	1950	1515	26259	30119	1940	1397	23966	27254	1920
	-30	1767	32135	37610	1960	1590	28438	32858	1920	1531	27235	31332	1910	1413	24870	28365	1890
	-25	1784	33353	39164	1930	1607	29529	34226	1890	1548	28284	32641	1880	1430	25841	29561	1860
	-20	1800	37154	43732	1920	1623	32865	38182	1880	1564	31473	36406	1870	1446	28744	32959	1850
	-15	1816	44735	52715	1950	1639	39462	45908	1900	1580	37759	43738	1890	1462	34433	39541	1860
	-10	1832	59605	70450	2030	1655	52213	60924	1970	1596	49851	57918	1950	1478	45272	52143	1910
	-5 0	1848	95014	112913	2280	1671	81631	95744	2170	1612	77472	90465	2140	1494	69557	80505	2070
					1685	201085	264237	3080	1626	176343	225397	2880	1508	142408	176211	2610	
1 2 0 0 0	-54	1675	29022	33367	2140	1498	25555	29027	2110	1439	24424	27630	2100	1321	22200	24911	2070
	-40	1722	29287	33939	2010	1545	25875	29614	1980	1486	24762	28223	1970	1368	22573	25514	1950
	-35	1738	29520	34296	1970	1561	26110	29956	1940	1502	24998	28561	1930	1384	22809	25842	1910
	-30	1755	30556	35609	1940	1578	27041	31117	1910	1519	25895	29673	1900	1401	23642	26862	1880
	-25	1771	31670	37026	1910	1594	28040	32366	1880	1535	26858	30869	1870	1417	24535	27958	1850
	-20	1787	35137	41175	1900	1610	31087	35966	1870	1551	29772	34296	1860	1433	27190	31053	1830
	-15	1803	41970	49243	1920	1626	37045	42919	1880	1567	35452	40899	1870	1449	32336	36987	1840
	-10	1819	55047	64777	1990	1642	48296	56119	1940	1583	46132	53377	1920	1465	41927	48099	1890
	-5	1835	84467	99910	2190	1658	72939	85168	2100	1599	69327	80600	2070	1481	62418	71937	2020
	0 1	1852	179566	232963	2910	1675	135560	169102	2560	1616	126735	154455	2490	1497	11019	130573	2360
	1852	255212	349748	3490	1675	174177	216585	2850	1616	158273	194222	2730	1498	132887	159882	2530	
1 1 8 0 0	-54	1663	27673	31693	2130	1486	24362	27572	2090	1427	23282	26245	2080	1309	21156	23858	2060
	-35	1726	28127	32542	1960	1549	24875	28428	1930	1490	23813	27103	1920	1372	21722	24520	1900
	-30	1742	29080	33745	1930	1565	25732	29493	1900	1506	24640	28124	1890	1388	22491	25458	1870
	-25	1758	30102	35039	1900	1581	26651	30636	1870	1522	25526	29220	1860	1404	23313	26462	1840
	-20	1774	33271	38817	1890	1597	29441	33919	1850	1538	28195	32347	1840	1420	25747	29290	1820
	-15	1790	39453	46089	1900	1613	34839	40186	1860	1554	33344	38311	1850	1436	30416	34655	1830
	-10	1806	51023	59780	1960	1629	44821	51865	1910	1570	42828	49352	1890	1452	38948	44504	1860
	-5	1822	75824	89271	2120	1645	65734	76416	2040	1586	62553	72408	2020	1468	56440	64772	1970
	0 1 3	1839	134981	165167	2550	1662	112868	132149	2380	1603	106248	123824	2330	1484	93958	108496	2230
		1842	164311	204827	2770	1665	130729	157409	2510	1606	122477	145389	2440	1488	107394	124596	2330
	1846	292762	400631	3760	1669	197352	239391	3010	1610	179627	215164	2870	1492	150875	177253	2650	
1 1 6 0 0	-54	1651	26404	30150	2110	1474	23239	26228	2080	1414	22206	24963	2070	1296	20171	22497	2050
	-35	1713	26820	30930	1950	1536	23713	27019	1920	1477	22698	25758	1910	1359	20699	23298	1890
	-30	1729	27697	32036	1920	1552	24505	27999	1890	1493	23462	26698	1880	1375	21410	24163	1860
	-25	1747	28636	33221	1880	1570	25354	29053	1860	1510	24279	27705	1850	1392	22168	25087	1830
	-20	1761	31540	36673	1870	1584	27910	32053	1840	1525	26728	30567	1830	1407	24404	27677	1810
	-15	1777	37150	43254	1880	1600	32816	37742	1850	1541	31410	35976	1830	1423	28652	32546	1810
	-10	1793	47442	55398	1930	1616	41717	48118	1880	1557	39873	45801	1870	1439	36276	41324	1840
	-5	1809	68601	80476	2070	1631	59657	69112	1990	1572	56822	65550	1970	1454	51355	58743	1930
	0 3 4	1823	114114	134813	2390	1646	96596	112596	2250	1587	91253	105894	2210	1469	81216	93407	2130
		1833	186415	226524	2930	1655	148318	175571	2630	1596	137937	162101	2550	1478	119574	138661	2400
	1836	231587	286266	3270	1659	177251	210267	2850	1599	163522	192346	2740	1481	139955	162220	2550	
1 1 4 0 0	-54	1641	25184	28609	2100	1463	22164	24893	2070	1404	21176	23693	2060	1286	19231	21352	2040
	-35	1702	25577	29355	1940	1524	22610	25646	1910	1465	21640	24449	1900	1347	19729	22112	1880
	-30	1716	26398	30406	1900	1539	23350	26575	1880	1480	22355	25339	1870	1362	20392	22928	1850
	-25	1732	27262	31492	1870	1555	24130	27538	1850	1496	23107	26264	1840	1378	21092	23779	1820
	-20	1747	29930	34650	1860	1570	26483	30289	1830	1511	25360	28886	1820	1393	23150	26153	1800
	-15	1764	35035	40817	1860	1587	30954	35456	1830	1528	29628	33799	1820	1410	27026	30580	1800
	-10	1780	44234	51427	1900	1603	38927	44713	1860	1544	37213	42572	1850	1425	33867	38427	1820
	-5	1795	62466	72944	2020	1618	54456	62811	1950	1559	51906	59621	1930	1441	46974	53507	1890
	0 4	1811	98616	115859	2270	1634	84192	97638	2150	1575	79736	92069	2120	1456	71290</		



MODEL 525A

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

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
1000	-54	1621	22940	25790	2080	1444	20183	22450	2050	1385	19281	21370	2040	1267	17501	19258	2030
	-35	1682	23269	26412	1920	1504	20567	23086	1890	1445	19682	22010	1880	1327	17935	19907	1870
	-30	1696	23972	27308	1880	1519	21201	23880	1860	1460	20294	22772	1850	1341	18505	20606	1830
	-25	1710	24720	28264	1850	1533	21876	24726	1830	1474	20945	23583	1820	1356	19110	21350	1800
	-20	1721	27022	31047	1830	1544	23903	27142	1810	1485	22885	25883	1800	1367	20877	23426	1780
	-15	1737	31284	35994	1830	1560	27643	31435	1800	1501	26457	29969	1790	1383	24124	27112	1770
	-10	1752	38722	44675	1860	1575	34112	38897	1820	1516	32618	37047	1810	1398	29692	33457	1790
	-5	1768	52595	60922	1940	1591	46014	52665	1880	1532	43903	50048	1870	1414	39801	45006	1830
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	-35	1665	20684	23003	1890	1487	18286	20140	1870	1428	17499	19211	1860	1310	15943	17390	1850
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	-35	1651	18436	20051	1870	1474	16302	17590	1850	1415	15600	16789	1850	1297	14211	15213	1830
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	-25	1673	19436	21332	1800	1496	17204	18722	1790	1437	16472	17874	1780	1319	15022	16207	1770
	-20	1676	21015	23305	1780	1499	18590	20424	1760	1440	17795	19489	1750	1322	16222	17655	1740
	-15	1674	23914	26863	1770	1497	21118	23479	1750	1438	20203	22384	1740	1320	18396	20242	1730
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	-35	1636	16477	17505	1850	1459	14569	15387	1840	1400	13942	14695	1830	1282	12698	13331	1820
	-30	1648	16881	18010	1820	1471	14936	15835	1800	1412	14295	15125	1800	1293	13028	13726	1780
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	-20	1661	18604	20144	1760	1484	16461	17690	1740	1425	15757	16891	1740	1307	14363	15320	1730
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-5	1623	26519	29460	1730	1446	23283	25616	1700	1387	22227	24375	1690	1269	20147	21950	1670	
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	5	1648	41256	46142	1780	1471	35971	39824	1740	1412	34266	37808	1720	1294	30936	33902	1700
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	-35	1606	13223	13558	1820	1429	11685	11950	1810	1370	11177	11421	1810	1251	10170	10374	1800
	-30	1616	13507	13901	1790	1439	11944	12256	1780	1380	11428	11715	1770	1262	10405	10646	1760
	-25	1627	13803	14261	1760	1450	12214	12577	1740	1391	11690	12024	1740	1273	10650	10930	1730
	-20	1629	14703	15353	1730	1451	13005	13521	1710	1392	12445	12920	1710	1274	11335	11734	1700
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	-10	1612	18845	20379	1700	1435	16607	17824	1680	1375	15872	16992	1670	1257	14418	15357	1660
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SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES  
AND TAKEOFF CLIMB INCREMENT (TCI)  
ANTI-ICE SYSTEMS ON

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	1727	34214	40039	2180	1549	30146	34818	2140	1490	28825	33146	2120	1372	26235	29902	2100
	-45	1758	34728	40912	2090	1581	30658	35631	2060	1522	29335	33941	2040	1404	26742	30663	2020
	-40	1775	34701	40966	2050	1598	30672	35740	2010	1539	29364	34061	2000	1421	26798	30803	1980
	-35	1792	35590	42145	2010	1615	31483	36777	1980	1556	30149	35060	1960	1438	27534	31728	1940
	-30	1809	37129	44081	1980	1632	32857	38480	1950	1573	31471	36689	1930	1455	28755	33216	1910
	-25	1826	38821	46209	1960	1649	34364	40346	1920	1590	32919	38473	1910	1472	30082	34836	1880
	-20	1843	45743	54414	1980	1666	40405	47422	1930	1607	38683	45197	1920	1489	35319	40893	1890
	-15	1859	56016	66487	2030	1682	49312	57768	1970	1623	47160	55007	1950	1505	42975	49688	1920
	-10	1876	85387	101367	2230	1699	74167	86918	2130	1639	70635	82421	2110	1521	63857	73866	2050
	-8	1882	106929	127068	2380	1705	91885	107777	2260	1646	87222	101860	2220	1528	78364	90717	2150
-7	1885	122420	145596	2500	1708	104351	122476	2350	1649	98813	115466	2310	1531	88377	102361	2230	
1 2 0 0 0	-54	1716	32701	38116	2160	1539	28816	33157	2120	1480	27553	31567	2110	1362	25074	28479	2090
	-45	1747	33172	38915	2080	1570	29287	33905	2040	1511	28024	32300	2030	1393	25546	29182	2010
	-40	1764	33146	38983	2030	1587	29302	34007	2000	1528	28052	32412	1990	1410	25599	29314	1960
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	-20	1832	43256	51236	1960	1655	38231	44689	1920	1595	36607	42600	1900	1477	33431	38559	1870
	-15	1848	52502	62062	2000	1671	46265	53994	1940	1612	44259	51431	1930	1494	40352	46486	1900
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	-7	1874	108176	128128	2390	1697	92828	108537	2260	1638	88077	102536	2220	1520	79059	91243	2150
-6	1877	124348	148005	2510	1700	105801	123791	2360	1641	100129	116641	2310	1523	89451	103293	2230	
1 2 0 0 0	-54	1704	31083	36113	2150	1527	27391	31421	2110	1468	26190	29915	2100	1350	23829	26987	2070
	-45	1735	31510	36840	2060	1558	27822	32105	2030	1499	26622	30586	2020	1381	24264	27634	2000
	-40	1752	31485	36903	2020	1575	27836	32200	1980	1516	26648	30691	1970	1398	24314	27757	1950
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	-10	1851	70775	83439	2110	1674	61825	71975	2030	1615	58980	68374	2010	1497	53485	61479	1970
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-5	1867	123960	146594	2490	1690	105395	123020	2340	1631	99718	115887	2300	1512	89033	102571	2210	
1 8 0 0 0	-54	1692	29571	34216	2130	1515	26058	29776	2100	1455	24913	28349	2080	1337	22683	25573	2060
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	-30	1773	31805	37296	1940	1595	28159	32594	1910	1536	26972	31084	1890	1418	24638	28148	1870
	-25	1789	33093	38899	1910	1612	29313	34009	1880	1553	28083	32440	1870	1435	25661	29384	1840
	-20	1806	38278	44984	1920	1628	33862	39286	1880	1569	32429	37463	1870	1451	29622	33924	1840
	-15	1822	45647	53568	1940	1645	40293	46698	1890	1586	38564	44507	1880	1468	35184	40264	1850
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	-30	1760	30201	35258	1920	1582	26738	30820	1890	1523	25610	29393	1880	1405	23390	26616	1860
	-25	1776	31378	36717	1890	1599	27795	32111	1860	1540	26629	30632	1850	1422	24334	27752	1830
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-2	1850	135091	167961	2550	1673	113755	132332	2380	1614	107316	124279	2330	1496	95295	109374	2240	
1 4 0 0 0	-54	1667	26827	30815	2100	1490	23633	26819	2070	1431	22590	25532	2060	1313	20537	23023	2040
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	-25	1763	29782	34729	1880	1585	26381	30377	1850	1526	25272	28977	1840	1408	23089	26250	1820
	-20	1779	34087	39749	1880	1602	30167	34742	1850	1543	28892	33135	1840	1425	26388	30010	1810
	-15	1795	40059	46667	1890	1618	35397	40736	1850	1559	33885	38838	1840	1441	30924	35153	1820
	-10	1811	54618	63671	1980	1634	47966	55246	1920	1575	45830	52572	1900	1457	41672	47415	1870
	-5	1826	83456	97514	2170	1649	72276	83422	2080	1590	68757	79035	2050	1472	62006	70689	2000
	-2	1836	114624	134571	2390	1658	97564	11305									



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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	0	0	0	0	0	0	0	0	0	0	0	0	0
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	-35	1708	25107	28817	1920	1530	22207	25190	1890	1471	21259	24019	1880	1353	19390	21733	1870
	-30	1721	25973	29922	1890	1544	22986	26165	1860	1485	22010	24953	1850	1367	20086	22589	1830
	-25	1736	26900	31092	1860	1558	23820	27199	1830	1499	22814	25945	1820	1381	20831	23497	1800
	-20	1752	30510	35270	1850	1575	27001	30841	1820	1516	25857	29416	1810	1397	23607	26639	1790
	-15	1768	35414	40913	1850	1590	31307	35745	1820	1531	29971	34085	1810	1413	27350	30857	1790
	-10	1783	46860	54181	1910	1606	41234	47122	1870	1547	39418	44871	1850	1429	35872	40514	1820
	-5	1799	67572	78294	2040	1622	58883	67427	1970	1563	56120	64009	1950	1444	50776	57457	1910
	0	1814	108364	126466	2320	1637	92308	106340	2200	1578	87367	100216	2160	1460	78028	88741	2090
	4	1817	121804	142420	2420	1639	102937	118755	2270	1580	97193	111634	2230	1462	86426	98403	2140
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	-35	1685	22224	25079	1890	1508	19658	21947	1870	1449	18817	20933	1860	1331	17158	18949	1850
	-30	1695	22955	26055	1860	1518	20312	22801	1840	1459	19446	21749	1830	1341	17737	19690	1810
	-25	1708	23718	27025	1830	1531	20998	23658	1800	1472	20107	22569	1800	1354	18350	20441	1780
	-20	1717	26710	30592	1820	1540	23627	26751	1790	1481	22620	25512	1780	1362	20634	23092	1770
	-15	1731	30602	35040	1810	1554	27052	30626	1780	1495	25895	29204	1780	1377	23617	26432	1760
	-10	1748	39296	45037	1850	1571	34623	39236	1810	1512	33108	37378	1800	1394	30140	33768	1780
	-5	1763	53751	61728	1930	1586	47051	53424	1880	1527	44900	50789	1860	1409	40716	45705	1830
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9	1792	130280	150694	2450	1615	109198	125196	2290	1556	102854	117407	2240	1438	91026	103010	2150	
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	-30	1681	20297	22489	1840	1504	17967	19724	1820	1445	17203	18826	1810	1326	15692	17065	1800
	-25	1690	20933	23329	1800	1513	18538	20460	1780	1454	17752	19529	1780	1336	16198	17704	1760
	-20	1687	23439	26464	1790	1510	20726	23153	1770	1451	19838	22081	1760	1333	18083	19985	1740
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	-10	1710	33376	37880	1800	1533	29418	33030	1770	1474	28130	31469	1760	1356	25600	28430	1740
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	0	1741	59674	68122	1940	1564	51947	58641	1880	1505	49480	55647	1860	1387	44702	49895	1820
	5	1756	87450	100212	2120	1578	75000	84940	2030	1519	71113	80223	2000	1401	63692	71295	1940
8	1764	116504	133992	2320	1587	98229	111566	2180	1528	92664	104811	2140	1409	82214	92234	2060	
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	-35	1657	17529	18847	1850	1480	15513	16564	1830	1421	14850	15820	1830	1303	13537	14355	1810
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	-25	1675	18536	20154	1780	1498	16419	17714	1770	1439	15723	16919	1760	1321	14346	15357	1750
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	-15	1664	23241	26019	1750	1487	20520	22742	1730	1428	19629	21681	1720	1310	17869	19604	1710
	-10	1674	28616	32178	1760	1497	25213	28081	1740	1438	24103	26732	1730	1320	21916	24138	1710
	-5	1689	38519	41140	1790	1512	32075	35760	1760	1453	30632	34033	1750	1334	27804	30675	1720
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	-30	1651	16037	16908	1800	1473	14198	14892	1780	1414	13592	14232	1780	1296	12394	12932	1770
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	-15	1641	20311	22295	1730	1464	17933	19514	1710	1405	17151	18610	1700	1287	15605	16834	1690
	-10	1635	24733	27540	1730	1458	21772	24006	1710	1399	20803	22863	1700	1281	18891	20625	1680
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	5	1677	50161	56261	1830	1500	43662	48473	1780	1441	41576	45999	1770	1323	37517	41224	1740
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	0	1621	32354	36240	17												



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

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	-54	1757	37792	44673	2190	1580	33303	38829	2150	1521	31848	36962	2140	1403	28998
2	-50	1771	38484	45640	2160	1594	33905	39673	2120	1535	32430	37770	2100	1417	29544	34087	2080
3	-45	1789	38412	45707	2110	1612	33906	39782	2070	1553	32448	37893	2060	1435	29592	34234	2030
7	-40	1807	38407	45827	2070	1629	33945	39937	2030	1570	32500	38057	2010	1452	29672	34417	1990
5	-35	1824	39997	47849	2040	1647	35385	41713	2000	1588	33867	39757	1980	1470	30934	35970	1960
	-30	1841	41742	50065	2010	1664	36920	43656	1970	1605	35361	41614	1950	1487	32312	37685	1930
	-25	1858	45227	54339	2000	1681	39979	47357	1950	1622	38287	45137	1940	1504	34981	40849	1910
	-20	1875	53079	63758	2030	1698	46801	55433	1970	1639	44785	52797	1960	1521	40861	47721	1920
	-15	1892	68292	81945	2110	1715	59848	70826	2040	1656	57162	67335	2020	1538	51970	60656	1980
	-10	1909	113668	136204	2440	1732	97503	115277	2310	1673	92515	108889	2270	1554	83069	96894	2190
	-9	1913	131431	217303	2570	1736	111719	132183	2410	1676	105705	124500	2370	1558	94418	110197	2270
1	-54	1746	36007	42422	2180	1569	31733	36884	2140	1510	30348	35114	2120	1392	27633	31683	2100
2	-45	1778	36566	43359	2100	1601	32287	37759	2060	1542	30900	35970	2040	1424	28182	32503	2020
2	-40	1796	36560	43471	2050	1618	32323	37903	2010	1559	30950	36124	2000	1441	28257	32674	1970
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	-30	1830	39609	47336	1990	1653	35049	41303	1950	1594	33573	39379	1940	1476	30983	35651	1910
	-25	1847	42780	51214	1980	1670	37840	44303	1940	1611	36244	42586	1920	1493	33122	38553	1900
	-20	1864	49860	59679	2000	1687	44008	51950	1950	1628	42122	49496	1930	1510	38450	44764	1900
	-15	1881	63294	75690	2070	1704	55571	65554	2010	1644	53106	62364	1990	1526	48343	56254	1950
	-10	1897	101199	120890	2340	1720	87302	102919	2230	1661	82975	97385	2190	1543	74735	86936	2120
	-9	1900	115180	137700	2440	1723	98648	116369	2310	1664	93554	109867	2270	1546	83918	97671	2190
	-8	1904	133842	214774	2580	1727	113495	133993	2420	1668	107315	126122	2370	1550	95733	111493	2280
1	-54	1734	34104	40003	2160	1557	30063	34797	2120	1498	28751	33131	2110	1380	26178	29897	2080
2	-45	1765	34608	40849	2080	1588	30567	35592	2040	1529	29254	33910	2030	1411	26681	30646	2000
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	-35	1800	35922	42620	2000	1623	31785	37198	1960	1564	30443	35464	1950	1446	27810	32100	1930
	-30	1817	37363	44438	1970	1640	33075	38801	1930	1581	31684	36998	1920	1463	28959	33505	1900
	-25	1834	40219	47917	1960	1657	35595	41829	1920	1598	34098	39886	1900	1480	31178	36134	1880
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	-10	1884	89679	106680	2240	1707	77751	91295	2150	1648	74009	86522	2120	1530	66841	77460	2060
	-8	1890	114678	136622	2430	1713	98157	115400	2300	1654	93067	108932	2250	1536	83440	96799	2180
	-7	1894	133529	192871	2570	1717	113142	133133	2410	1658	106951	125283	2360	1540	95353	111095	2260
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	-35	1787	33990	40180	1980	1610	30082	35083	1950	1551	28812	33450	1940	1433	26319	30279	1910
	-30	1804	35296	41824	1950	1627	31254	36536	1920	1568	29941	34843	1910	1450	27366	31557	1880
	-25	1821	37879	44962	1940	1644	33538	39273	1900	1585	32130	37454	1890	1466	29371	33927	1860
	-20	1837	43546	51691	1950	1660	38497	45090	1900	1601	36865	42986	1890	1483	33673	38913	1860
	-15	1854	53877	63912	1990	1677	47451	55557	1940	1618	45387	52907	1920	1500	41369	47799	1890
	-10	1870	80273	95186	2170	1693	69866	81787	2080	1634	66579	77603	2060	1516	60259	69629	2010
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	-35	1774	32200	37888	1970	1597	28501	33094	1930	1538	27297	31556	1920	1420	24933	28567	1900
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	-6	1869	112092	132795	2390	1692	95883	112114	2260	1633	90885	105806	2220	1515	81426	93968	2140
	-5	1872	128198	158854	2510	1695	108668	127264	2350	1636	102724	119769	2310	1518	91572	105819	2220
1	-54	1696	29168	33804	2110	1519	25714	29427	2080	1460	24593	28025	2070	1342	22376	25283	2040
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	-25	1794	33753	39690	1900	1617	29898	34702	1870	1558	28645	33102	1860	1440	26183	29993	1840
	-20	1810	38364	45123	1900	1633	33947	39417	1860	1574	32515	37591	1850	1456	29698	34038	1830
	-15	1827	46499	54675</													



MODEL 525A

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

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	1672	26378	30313	2080	1494	23250	26396	2050	1435	22228	25134	2040	1317	20217	22674	2020
	-35	1734	27544	32001	1930	1556	24375	27966	1900	1497	23340	26666	1890	1379	21303	24134	1870
	-30	1750	28450	33127	1890	1573	25195	28969	1870	1514	24133	27631	1860	1396	22042	25023	1840
	-25	1766	30228	35255	1870	1589	26777	30839	1840	1530	25652	29419	1830	1412	23439	26653	1810
	-20	1783	34028	39703	1870	1606	30124	34711	1830	1546	28854	33109	1820	1428	26359	29993	1800
	-15	1799	40556	47316	1880	1622	35831	41293	1840	1563	34301	39366	1830	1444	31303	35628	1810
	-10	1815	55182	64399	1970	1638	48455	55867	1910	1578	46296	53160	1890	1460	42096	47942	1860
	-5	1830	84236	98676	2160	1653	72901	84343	2070	1594	69339	79887	2040	1476	62508	71416	1990
	-2	1839	119678	140907	2410	1662	101519	117969	2270	1603	95972	111038	2230	1485	85540	98109	2150
	0	1845	167143	210906	2770	1668	131595	159540	2490	1609	123535	147130	2430	1491	108719	125764	2310
1	1848	218129	280886	3150	1671	162046	197906	2720	1612	149003	179956	2610	1494	126989	150552	2440	
1050	-54	1646	23300	26376	2050	1469	20534	22986	2030	1410	19628	21891	2020	1292	17842	19751	2000
	-35	1707	24254	27763	1900	1529	21460	24281	1870	1470	20546	23155	1860	1352	18742	20958	1850
	-30	1719	25007	28728	1860	1542	22140	25135	1840	1483	21202	23976	1830	1365	19353	21711	1810
	-25	1731	26481	30553	1840	1554	23445	26726	1810	1495	22457	25497	1800	1377	20503	23091	1790
	-20	1747	29510	34065	1830	1570	26123	29797	1800	1511	25018	28422	1790	1393	22842	25743	1770
	-15	1763	34570	39913	1830	1586	30562	34872	1800	1527	29258	33252	1790	1409	26697	30102	1770
	-10	1779	45285	52314	1890	1602	39864	45517	1840	1543	38113	43348	1830	1424	34692	39147	1800
	-5	1794	64248	74461	2000	1617	56044	64183	1940	1558	53429	60945	1910	1440	48370	54732	1870
	0	1809	101380	118186	2250	1632	86655	99753	2140	1573	82098	94112	2100	1455	73454	83498	2040
	1	1812	113253	132237	2340	1635	96134	110797	2200	1576	90891	104304	2160	1458	81011	92171	2090
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	-35	1686	21381	23956	1870	1509	18922	20987	1850	1450	18110	20018	1840	1332	16523	18140	1830
	-30	1696	22013	24807	1840	1519	19490	21733	1820	1460	18662	20738	1810	1342	17029	18789	1790
	-25	1703	23240	26387	1810	1526	20574	23103	1790	1467	19700	22041	1780	1349	17976	19863	1770
	-20	1711	25750	29406	1800	1534	22781	25721	1770	1475	21810	24531	1760	1357	19895	22207	1750
	-15	1726	29747	33992	1790	1549	26295	29710	1770	1490	25168	28330	1760	1372	22952	25640	1740
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	0	1771	73104	84201	2030	1594	63305	72060	1960	1535	60209	68265	1930	1417	54249	61022	1890
	5	1786	116872	135421	2330	1609	98689	112873	2190	1550	93151	106085	2150	1432	82754	93447	2070
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	-10	1703	32020	36264	1780	1526	28225	31626	1750	1467	26989	30133	1740	1349	24559	27223	1720
	-5	1718	41577	47206	1820	1541	36498	40992	1780	1482	34855	39005	1770	1364	31641	35151	1740
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	-30	1665	17189	18434	1790	1488	15225	16220	1780	1429	14579	15497	1770	1311	13300	14074	1760
	-25	1669	18004	19482	1770	1492	15945	17127	1750	1433	15268	16360	1740	1315	13929	14850	1730
	-20	1664	19695	21630	1740	1487	17422	18969	1730	1428	16675	18104	1720	1310	15199	16405	1710
	-15	1656	22392	24993	1730	1479	19767	21846	1710	1420	18907	20826	1700	1302	17208	18828	1690
	-10	1663	27361	30722	1740	1486	24103	26787	1710	1427	23039	25517	1700	1309	20943	23035	1690
	-5	1678	34514	38842	1760	1501	30318	33767	1730	1442	28955	32136	1720	1324	26279	28962	1700
	0	1692	44562	50298	1810	1515	38962	43513	1770	1456	37156	41348	1750	1338	33631	37159	1720
	5	1706	59278	67089	1890	1529	51448	57599	1830	1470	48951	54605	1810	1352	44117	48855	1770
10	1720	85198	96772	2050	1543	72897	81865	1960	1484	69056	77260	1930	1366	61725	68540	1870	
850	-54	1587	14478	15018	1970	1410	12765	13191	1950	1351	12201	12592	1940	1233	11082	11408	1930
	-35	1639	14912	15607	1810	1462	13198	13751	1800	1403	12634	13143	1790	1284	11515	11943	1780
	-30	1648	15256	16055	1780	1471	13510	14147	1760	1412	12935	13522	1760	1294	11795	12289	1750
	-25	1652	15926	16913	1750	1475	14103	14890	1730	1416	13502	14228	1730	1298	12312	12924	1720
	-20	1646	17304	18661	1720	1469	15305	16388	1710	1410	14648	15647	1700	1292	13346	14188	1690
	-15	1636	19477	21387	1710	1459	17194	18717	1690	1400	16445	17849	1680	1281	14961	16144	1670
	-10	1625	23559	26323	1710	1448	20734	22933	1690	1389	19809	21836	1680	1271	17983	19688	1660
	-5	1635	29104	32664	1720	1458	25555	28384	1690	1399	24397	27004	1680	1281	22120	24312	1670
	0	1649	36417	40980	1750	1472	31877	35493	1710	1413	30404	33734	1700	1295			



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

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 2 3 7 5	-54	1788	42829	51309	2230	1611	37696	44498	2180	1552	36040	42336	2160	1434	32810	38164	2130
	-50	1803	43146	51837	2190	1625	38006	44989	2140	1566	36349	42815	2120	1448	33116	38621	2090
	-45	1821	43095	51930	2140	1644	38014	45128	2090	1584	36375	42968	2080	1466	33176	38800	2050
	-40	1839	43771	52887	2100	1661	38647	46002	2050	1602	36995	43816	2040	1484	33769	39597	2010
	-35	1856	45547	55170	2070	1679	40231	48006	2020	1620	38517	45732	2010	1502	35175	41350	1980
	-30	1876	47498	57676	2050	1699	41965	50200	2000	1640	40184	47831	1980	1521	36710	43263	1950
	-25	1891	53251	64777	2050	1714	46965	56277	2000	1655	44949	53594	1980	1537	41028	48435	1950
	-20	1909	62316	75702	2090	1732	54771	65706	2020	1672	52367	62504	2000	1554	47710	56383	1970
	-15	1926	86826	105453	2250	1749	75517	90354	2160	1689	71969	85682	2130	1571	65172	76825	2070
	-13	1932	106832	129622	2390	1755	92044	110024	2270	1696	87467	104037	2240	1578	78782	92788	2170
-12	1936	122352	148636	2510	1759	104542	125086	2370	1699	99097	117979	2320	1581	88845	104728	2240	
1 2 2 0 0	-54	1777	40602	48413	2210	1600	35756	42025	2160	1541	34192	39993	2140	1423	31133	36066	2110
	-50	1794	40888	48892	2170	1616	36040	42472	2120	1557	34474	40430	2110	1439	31415	36485	2080
	-45	1810	40842	48978	2120	1632	36048	42601	2070	1573	34499	40572	2060	1455	31472	36652	2030
	-40	1827	41456	49847	2080	1650	36626	43398	2040	1591	35085	41346	2020	1473	32016	37382	1990
	-35	1845	43065	51908	2050	1668	38065	45213	2000	1609	36451	43085	1990	1491	33297	38975	1960
	-30	1862	44828	54165	2020	1685	39637	47197	1980	1626	37962	44983	1960	1508	34692	40708	1930
	-25	1880	49995	60511	2030	1703	44142	52650	1980	1644	42260	50161	1960	1526	38594	45363	1930
	-20	1897	58027	70316	2050	1720	51087	60996	1990	1661	48868	58064	1980	1543	44560	52433	1940
	-15	1914	79120	95610	2180	1737	69051	82236	2100	1678	65873	78073	2080	1560	59762	70149	2030
	-12	1924	107970	130470	2390	1747	92921	110660	2270	1688	88266	104611	2230	1570	79437	93244	2160
-11	1927	124088	150100	2510	1750	105882	126202	2370	1691	100321	118992	2320	1573	89856	105552	2240	
1 2 0 0	-54	1765	38262	45403	2180	1587	33714	39446	2140	1528	32242	37546	2120	1410	29363	33871	2100
	-50	1779	38518	45831	2150	1602	33969	39848	2100	1543	32498	37941	2090	1425	29618	34251	2060
	-45	1797	38476	45912	2100	1620	33978	39968	2080	1561	32523	38074	2040	1442	29673	34406	2020
	-40	1814	39028	46892	2080	1637	34500	40687	2020	1578	33035	38773	2000	1460	30167	35070	1980
	-35	1832	40473	48537	2030	1655	35797	42318	1980	1596	34284	40337	1970	1478	31324	36504	1940
	-30	1849	42048	50548	2000	1672	37206	44091	1960	1613	35640	42035	1940	1495	32579	38058	1920
	-25	1867	46643	55164	2000	1689	41224	48935	1950	1630	39478	46639	1940	1512	36069	42205	1910
	-20	1884	53689	64716	2020	1706	47341	56255	1960	1647	45304	53579	1950	1529	41342	48429	1910
	-15	1900	71663	86159	2120	1723	62737	74367	2050	1664	59905	70675	2030	1546	54438	63629	1980
	-11	1914	107300	129098	2380	1736	92321	109514	2260	1677	87685	103526	2220	1559	78886	92266	2150
-10	1917	123462	148656	2500	1740	105332	125032	2350	1681	99787	117893	2310	1563	89349	104570	2230	
1 8 0	-54	1754	38116	42695	2160	1577	31835	37116	2120	1518	30448	35334	2110	1400	27730	31882	2080
	-50	1766	38345	43080	2120	1589	32066	37480	2080	1530	30679	35692	2070	1412	27962	32228	2050
	-45	1784	38306	43155	2080	1607	32075	37593	2040	1548	30703	35816	2030	1430	28015	32373	2000
	-40	1799	38804	43859	2040	1622	32548	38244	2000	1563	31168	36451	1990	1445	28464	32977	1960
	-35	1819	38106	45519	2010	1642	33719	39716	1970	1583	32298	37864	1950	1464	29513	34274	1930
	-30	1836	39520	47323	1980	1659	34988	41310	1940	1600	33520	39391	1920	1482	30647	35675	1900
	-25	1853	43627	52325	1970	1676	38589	45637	1930	1617	36962	43507	1910	1499	33781	39389	1890
	-20	1870	49847	59847	1980	1693	44008	52101	1930	1634	42129	49643	1920	1516	38466	44903	1890
	-15	1887	65325	78234	2070	1710	57328	67711	2010	1651	54779	64407	1990	1533	49844	58076	1940
	-10	1903	106617	127857	2360	1726	91709	108470	2240	1667	87091	102534	2210	1549	78324	91367	2140
-9	1906	122826	147365	2480	1729	104770	123980	2340	1670	99243	116901	2300	1552	88830	103678	2210	
1 6 0	-54	1739	34137	40168	2140	1562	30099	34938	2100	1503	28788	33265	2090	1385	26217	30019	2070
	-45	1771	34309	40585	2080	1594	30318	35373	2020	1535	29023	33706	2010	1417	26481	30472	1990
	-40	1788	34760	41222	2020	1611	30749	35866	1980	1552	29447	34285	1970	1434	26887	31017	1950
	-35	1804	35936	42718	1990	1627	31810	37295	1950	1568	30470	35561	1940	1450	27844	32196	1910
	-30	1822	37210	44338	1980	1645	32956	38731	1920	1586	31576	36938	1910	1468	28872	33461	1880
	-25	1840	40896	48809	1950	1662	36196	42608	1910	1603	34675	40629	1890	1485	31698	36798	1870
	-20	1856	46420	55460	1960	1679	41021	48341	1910	1620	39280	46076	1900	1502	35872	41693	1870
	-15	1873	59864	71352	2030	1696	52638	61904	1970	1637	50325	58923	1950	1519	45835	53189	1910
	-10	1889	93532	111631	2280	1712	80936	95305	2160	1653	76997	90260	2130	1535	69471	80706	2070
	-9	1892	105923	126481	2350	1715	91086	107314	2230	1656	86486	101439	2190	1538	77750	90376	2120
-7	1900	140556	252085	2610	1723	118813	142294	2430	1684	111993	131612	2380	1545	99639	116022	2280	
1 1 4 0	-54	1726	32309	37842	2120	1549	28491	32928	2090	1490	27250	31354	2080	1372	24814	28297	2050
	-45	1758	32463	38220	2040	1580	28692	33326	2010	1521	27466	31758	2000	1403	25058	28714	1970
	-40	1775	32868	38792	2000	1598	29084	33867	1970	1539	27853	32287	1960	1421	25434	29217	1930
	-35	1792	33939	40150	1970	1615	30049	35071	1930	1556	28784	33443	1920	1438	26302	30283	1900
	-30	1809	35091	41610	1940	1632	31087	36367	1900	1573	29790	34691	1890	1455	27235	31428	1870
	-25	1826	38411	45621	1930	1649	34013	39853	1890	1590	32586	38010	1880	1471	29792	34435	1850
	-20	1842	43342	51531	1930	1665	38330	44962	1890	1606	36710	42868	1870	1488	33541	38815	1850
	-15	1859	55108	65379	1990	1682	48529	56829	1930	1623	46417	54119	1920	1505	42307	48896	1880
	-10	1875	83053	98665	2170	1698	72192	84641	2090	1639	68770	80274	2060	1521	62201	71966	2010
	-7	1885	118593	141251	2430	1708	101199	118927	2290	1649	95861	112151	2250	1531	85791	99475	2170
-5					1713	137547	217821	2560	1654	128981	182423	2500	1536	113806	141515	2380	

525AFM-06-00

Figure 4-29 (Sheet 25)



MODEL 525A

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

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 0	-54	1700	29036	33734	2090	1523	25605	29368	2080	1463	24486	27985	2050	1345	22288	25235	2030
	-45	1731	29162	34048	2010	1553	25774	29704	1980	1494	24670	28308	1970	1376	22498	25592	1950
	-40	1748	29501	34528	1970	1570	26102	30155	1940	1511	24994	28749	1930	1393	22819	26018	1910
	-35	1764	30384	35643	1940	1587	26896	31143	1910	1528	25771	29708	1900	1410	23541	26900	1880
	-30	1781	31333	36839	1900	1604	27764	32218	1870	1545	26602	30734	1860	1427	24317	27847	1840
	-25	1798	34057	40105	1890	1621	30172	35068	1860	1562	28909	33453	1850	1444	26428	30313	1820
	-20	1814	38034	44838	1880	1637	33668	39177	1850	1578	32252	37366	1840	1460	29476	33850	1810
	-15	1831	47215	55575	1920	1654	41667	48427	1880	1595	39876	46149	1860	1476	36380	41744	1830
	-10	1847	67256	79259	2050	1670	58822	68446	1980	1611	56137	65045	1960	1493	50942	58525	1920
	-5	1863	114064	135013	2380	1686	97370	113747	2250	1626	92235	107277	2210	1508	82533	95152	2130
-2					1695	173426	234136	2810	1636	153307	201601	2660	1518	124432	158242	2430	
1 0 0 0	-54	1670	25490	29228	2060	1493	22471	25458	2030	1434	21489	24248	2020	1316	19548	21880	2000
	-35	1730	26803	30851	1900	1553	23549	26971	1880	1494	22552	25722	1870	1376	20585	23283	1850
	-30	1746	27365	31815	1870	1568	24241	27833	1840	1509	23221	26550	1830	1391	21212	24050	1820
	-25	1762	29525	34379	1850	1585	26157	30079	1820	1526	25059	28696	1810	1408	22897	26000	1790
	-20	1778	32629	38036	1840	1601	28894	33265	1810	1542	27679	31733	1800	1424	25290	28753	1780
	-15	1794	39546	46056	1860	1617	34949	40210	1820	1558	33458	38338	1810	1440	30537	34704	1790
	-10	1810	53515	62403	1940	1633	47014	54760	1880	1574	44925	51544	1870	1456	40858	46495	1840
	-5	1826	80950	94721	2120	1649	70156	81079	2030	1590	66755	76829	2010	1471	60225	68738	1950
	-2	1835	111456	130945	2330	1658	94981	110146	2200	1599	89915	103821	2160	1481	80345	91972	2090
	0	1842	147337	184535	2590	1664	122178	144389	2400	1605	114928	133865	2340	1487	101513	116594	2240
2	1847	253905	334234	3390	1670	180585	220493	2830	1611	165011	198954	2710	1493	139454	164793	2510	
1 0 0 0	-54	1647	22413	25227	2030	1470	19764	22007	2000	1411	18896	20968	2000	1293	17184	18929	1980
	-35	1702	23399	26625	1870	1525	20656	23297	1850	1468	19778	22221	1840	1348	18044	20118	1830
	-30	1716	23963	27429	1840	1539	21223	24014	1820	1480	20326	22910	1810	1362	18557	20754	1790
	-25	1726	25746	29621	1820	1549	22799	25922	1790	1490	21836	24728	1780	1372	19936	22398	1770
	-20	1741	28220	32537	1800	1564	24986	28467	1780	1505	23930	27155	1770	1387	21850	24597	1750
	-15	1757	33559	38673	1810	1580	29672	33797	1780	1521	28407	32229	1770	1403	25921	29178	1750
	-10	1772	43721	50448	1860	1595	38499	43909	1820	1536	36811	41819	1800	1418	33510	37771	1780
	-5	1788	61531	71208	1960	1611	53726	61445	1900	1552	51234	58364	1880	1434	46406	52445	1840
	0	1803	94552	110038	2180	1626	81114	93222	2080	1567	76900	88015	2050	1449	68929	78235	1990
	2	1809	117801	137607	2350	1632	99631	114848	2210	1572	94094	107991	2160	1454	83694	95223	2080
5	1817	182228	217939	2810	1640	146534	171134	2540	1581	136598	158463	2460	1463	118835	136172	2330	
9 5 0 0	-54	1633	19747	21702	2000	1456	17420	18976	1980	1397	16657	18090	1970	1278	15148	16354	1960
	-35	1686	20491	22807	1850	1509	18143	20001	1830	1450	17373	19090	1820	1331	15851	17305	1810
	-30	1696	21009	23510	1810	1519	18612	20621	1790	1460	17826	19684	1790	1342	16271	17847	1770
	-25	1698	22495	25442	1790	1521	19916	22284	1770	1462	19071	21262	1760	1344	17401	19281	1750
	-20	1706	24527	27923	1770	1529	21705	24435	1750	1470	20781	23308	1740	1352	18959	21104	1730
	-15	1718	28753	32804	1770	1541	25415	28673	1740	1482	24326	27342	1740	1364	22181	24743	1720
	-10	1734	36376	41554	1800	1556	32063	36221	1760	1497	30662	34509	1750	1379	27914	31180	1730
	-5	1749	48692	55769	1860	1572	42680	48335	1820	1513	40745	45968	1800	1394	36971	41394	1770
	0	1763	68416	78687	1980	1586	59361	67477	1910	1527	56490	63962	1890	1409	50952	57239	1850
	5	1778	104906	121315	2220	1601	89162	101819	2100	1542	84318	95887	2070	1424	75161	84767	2000
6	1781	117150	135705	2310	1604	98829	113004	2170	1545	93254	106174	2130	1426	82790	93465	2050	
9 0 0 0	-54	1617	17468	18729	1980	1440	15411	16413	1960	1381	14735	15657	1950	1263	13398	14171	1940
	-35	1672	18068	19596	1830	1494	16001	17223	1810	1435	15321	16450	1800	1317	13976	14930	1790
	-30	1680	18485	20154	1790	1503	16380	17716	1770	1444	15688	16923	1770	1326	14318	15363	1760
	-25	1682	19679	21692	1770	1504	17429	19042	1750	1445	16690	18181	1740	1327	15228	16490	1730
	-20	1680	21354	23838	1750	1503	18893	20885	1720	1444	18086	19927	1720	1326	16491	18050	1700
	-15	1679	24801	27989	1740	1502	21904	24459	1720	1443	20956	23317	1710	1325	19086	21085	1690
	-10	1693	30669	34687	1750	1516	27031	30248	1720	1457	25845	28818	1710	1339	23512	26029	1700
	-5	1708	39566	44855	1790	1531	34741	38964	1750	1472	33179	37077	1740	1353	30119	33414	1720
	0	1722	52495	59711	1860	1545	45803	51527	1810	1486	43657	48932	1790	1368	39485	43927	1760
	5	1736	72721	83012	1980	1559	62778	70846	1900	1500	59640	67048	1880	1382	53606	59804	1830
10	1750	116730	134058	2270	1573	98177	111327	2130	1514	92541	104500	2090	1396	81975	91810	2010	
8 5 0 0	-54	1601	15492	16285	1960	1424	13666	14277	1940	1365	13065	13627	1940	1247	11874	12344	1930
	-35	1652	15980	16951	1810	1475	14150	14925	1790	1416	13548	14262	1790	1298	12354	12956	1780
	-30	1662	16321	17401	1770	1485	14460	15323	1760	1426	13848	14644	1750	1308	12634	13306	1740
	-25	1663	17290	18645	1750	1486	15313	16396	1730	1427	14663	15662	1720	1309	13374	14218	1710
	-20	1661	18636	20365	1720	1484	16491	17872	1700	1425	15785	17061	1700	1307	14390	15467	1690
	-15	1648	21437	23882	1710	1471	18922	20875	1690	1412	18098	19900	1680	1294	16465	17986	1670
	-10	1650	26116	29377	1720	1473	22997	25598	1690	1414	21977	24378	1680	1295	19968	21992	1670
	-5	1664	32754	36923	1740	1487	28768	32088	1710	1428	27471	30534	1700	1310	24924	27506	1680
	0	1679	41750	47201	1770	1501	36519	40844	1730	1442	34829	38813					



**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES AND TAKEOFF CLIMB INCREMENT (TCI) ANTI-ICE SYSTEMS ON** **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	49478	60106	2270	1643	43443	51949	2220	1584	41510	49377	2200	1465	37752	44439	2160
	-50	1835	49506	60321	2230	1658	43513	52183	2180	1598	41592	49617	2160	1480	37860	44690	2120
	-45	1853	49541	60589	2180	1676	43600	52474	2130	1617	41694	49915	2110	1499	37991	45000	2080
	-40	1871	50968	62459	2150	1694	44886	54136	2090	1635	42938	51511	2080	1517	39149	46471	2040
	-35	1890	52858	64878	2120	1712	46573	56266	2060	1653	44560	53551	2050	1535	40650	48340	2010
	-30	1907	55698	68491	2100	1730	49070	59397	2040	1671	46951	56534	2030	1553	42837	51041	1990
	-25	1925	64233	79300	2130	1748	56382	68494	2060	1689	53888	65113	2040	1571	49069	58660	2000
-20	1943	77572	96082	2200	1766	67666	82436	2120	1707	64552	78212	2090	1589	58575	70201	2040	
-15	1960	117749	145041	2480	1783	100809	122201	2340	1724	95626	115309	2300	1606	85862	102457	2220	
-14					1786	115494	140025	2450	1727	109231	131728	2400	1609	97547	116402	2310	
1 2 2 0 0	-54	1809	46598	56368	2250	1632	40959	48787	2190	1573	39148	46390	2170	1454	35622	41780	2140
	-50	1824	46621	56561	2210	1646	41021	48999	2150	1587	39223	46609	2140	1469	35720	42009	2100
	-45	1842	46650	56802	2160	1665	41099	49264	2110	1606	39315	46880	2090	1488	35841	42293	2060
	-40	1860	47933	58483	2120	1683	42260	50763	2070	1624	40438	48321	2050	1506	36890	43626	2020
	-35	1878	49625	60647	2090	1701	43777	52677	2040	1642	41900	50157	2020	1524	38244	45310	1990
	-30	1896	52156	63861	2070	1719	46012	55473	2020	1660	44041	52824	2000	1542	40209	47733	1970
	-25	1913	59660	73316	2090	1736	52472	63475	2030	1677	50181	60385	2010	1559	45740	54467	1970
-20	1931	71145	87678	2150	1754	62255	75500	2070	1695	59444	71709	2050	1577	54031	64490	2000	
-15	1948	104173	127898	2370	1771	89821	108423	2260	1712	85380	102537	2220	1594	76951	91479	2150	
-14	1952	118485	145258	2480	1775	101405	122404	2340	1715	96175	115498	2300	1597	86322	102614	2220	
-13					1779	116454	140544	2450	1720	110122	132220	2400	1602	98304	116828	2310	
1 2 0 0 0	-54	1796	43614	52473	2220	1619	38375	45479	2170	1560	36687	43262	2150	1442	33397	38988	2120
	-50	1811	43632	52645	2180	1634	38431	45671	2130	1574	36755	43459	2110	1458	33487	39197	2080
	-45	1829	43656	52860	2130	1652	38503	45912	2080	1593	36838	43704	2070	1475	33598	39455	2040
	-40	1847	44796	54352	2090	1670	39537	47245	2050	1611	37843	44992	2030	1493	34539	40647	2000
	-35	1865	46297	56268	2060	1688	40888	48946	2010	1629	39146	46625	2000	1510	35750	42151	1970
	-30	1882	48529	59093	2040	1705	42866	51415	1990	1646	41046	48983	1970	1528	37496	44297	1940
	-25	1900	55062	67272	2050	1723	48518	58374	2000	1664	46423	55689	1980	1546	42355	50183	1950
-20	1917	64854	79434	2090	1740	56913	68633	2030	1681	54389	65251	2010	1563	49511	58789	1970	
-15	1934	91836	111933	2270	1757	79664	95685	2170	1698	75860	90647	2140	1580	68615	81180	2080	
-13	1941	116996	142561	2460	1764	100213	120303	2320	1705	95062	113556	2280	1587	85343	100945	2200	
-12					1768	115078	138076	2430	1709	108855	129965	2380	1591	97215	114933	2290	
1 8 0 0	-54	1783	40914	48966	2190	1606	36028	42489	2140	1547	34451	40430	2130	1429	31370	36455	2100
	-50	1796	40928	49119	2150	1619	36077	42661	2110	1560	34512	40609	2090	1442	31452	36644	2060
	-45	1816	40948	49311	2100	1639	36140	42877	2060	1579	34588	40831	2050	1461	31554	36880	2020
	-40	1834	41967	50843	2070	1656	37071	44074	2020	1597	35490	41985	2010	1479	32403	37953	1980
	-35	1851	43305	52349	2040	1674	38279	45592	1990	1615	36658	43445	1980	1497	33490	39299	1950
	-30	1869	45286	54846	2010	1692	40041	47784	1970	1633	38350	45540	1950	1515	35051	41212	1920
	-25	1886	51014	61977	2020	1709	45018	53880	1970	1650	43092	51318	1950	1532	39345	46589	1920
-20	1903	59453	72393	2050	1726	52292	62718	1990	1667	50006	59675	1970	1549	45574	53842	1930	
-15	1921	81898	99284	2190	1743	71368	85277	2110	1684	68052	80924	2080	1566	61686	72649	2030	
-12	1931	115509	139908	2440	1754	99018	118225	2300	1694	93945	111634	2260	1576	84359	99290	2190	
-11					1758	113701	135644	2410	1699	107584	127741	2360	1580	98122	113057	2270	
1 1 6 0 0	-54	1770	38459	45792	2170	1593	33886	39771	2120	1534	32407	37854	2110	1416	29515	34145	2080
	-50	1784	38470	45929	2130	1607	33932	39928	2090	1548	32463	38016	2070	1430	29592	34319	2050
	-45	1802	38486	46101	2080	1625	33995	40131	2040	1566	32532	38218	2030	1448	29685	34535	2000
	-40	1819	39400	47293	2040	1642	34825	41198	2000	1583	33346	39257	1990	1465	30451	35501	1960
	-35	1838	40599	48818	2010	1661	35912	42560	1970	1602	34396	40567	1960	1483	31432	36712	1930
	-30	1855	42364	51038	1990	1678	37488	44514	1940	1619	35912	42438	1930	1501	32832	38423	1900
	-25	1872	47421	57297	1990	1695	41896	49887	1940	1636	40118	47536	1930	1518	36649	43002	1900
-20	1890	54759	66302	2010	1712	48250	57567	1960	1653	46164	54808	1940	1535	42112	49508	1900	
-15	1906	73701	88887	2120	1729	64450	76640	2050	1670	61519	72811	2030	1552	55870	65503	1980	
-11	1920	114030	137305	2410	1743	97821	116174	2280	1684	92824	109732	2240	1566	83367	97646	2170	
-10					1746	111798	132827	2390	1687	105798	125116	2340	1568	94540	110768	2250	
1 1 4 0 0	-54	1757	36215	42947	2150	1580	31923	37327	2110	1521	30533	35533	2090	1403	27810	32060	2070
	-50	1771	36224	43071	2110	1594	31964	37470	2070	1535	30584	35682	2050	1417	27880	32219	2030
	-45	1789	36236	43226	2060	1612	32015	37648	2020	1553	30647	35867	2010	1435	27967	32417	1980
	-40	1807	37060	44300	2020	1629	32773	38619	1990	1570	31384	36806	1970	1452	28663	33293	1950
	-35	1824	38138	45670	1990	1647	33752	39846	1950	1588	32332	37987	1940	1470	29549	34387	1910
	-30	1841	39718	47653	1960	1664	35168	41597	1920	1605	33694	39665	1910	1487	30810	35925	1890
	-25	1858	44208	53188	1980	1681	39094	46364	1920	1622	37443	44193	1900	1504	34219	40000	1880
-20	1875	50636	61042	1980	1698	44680	53090	1930	1639	42767	50572	1910	1521	39039	45719	1880	
-15	1892	66813	80260	2070	1715	58586	69409	2000	1656	55968	65999	1980	1538	50902	59470	1940	
-10	1909	112077	134513	2390	1732	96179	113873	2260	1673	91271	107571	2220	1555	81973	95735	2150	
-8																	



MODEL 525A

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

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 0 0	-54	1730	32258	37881	2110	1553	28449	32959	2070	1494	27211	31383	2060	1376	24782	28323	2040
	-45	1762	32271	38108	2020	1584	28525	33226	1990	1525	27308	31662	1980	1407	24918	28626	1960
	-40	1779	32945	38984	1990	1602	29150	34023	1950	1543	27916	32434	1940	1425	25494	29348	1920
	-35	1796	33825	40096	1950	1619	29953	35024	1920	1560	28695	33400	1910	1442	26226	30246	1890
	-30	1813	35107	41694	1920	1636	31108	36443	1890	1577	29808	34761	1880	1459	27259	31498	1860
	-25	1828	38697	46075	1910	1651	34262	40237	1880	1592	32825	38372	1860	1474	30010	34758	1840
	-20	1847	43725	52155	1920	1670	38658	45479	1880	1611	37022	43353	1860	1493	33824	39243	1840
	-15	1863	55858	66445	1980	1686	49169	57714	1920	1627	47024	54951	1910	1509	42853	49629	1870
	-10	1880	85706	101914	2180	1703	74418	87343	2090	1643	70868	82813	2060	1525	64059	74200	2010
	-8	1886	107912	128512	2340	1709	92640	108869	2220	1650	87914	102857	2180	1532	78948	91549	2110
-5									1659	148049	242672	2630	1541	119591	162543	2400	
1 0 5 0 0	-54	1696	28106	32632	2070	1518	24786	28410	2040	1459	23704	27053	2030	1341	21575	24412	2010
	-50	1709	28108	32710	2030	1532	24813	28505	2000	1473	23739	27154	1990	1355	21627	24523	1970
	-45	1726	28111	32808	1990	1549	24848	28624	1960	1490	23783	27278	1950	1372	21690	24660	1930
	-40	1743	28644	33497	1950	1566	25345	29254	1920	1507	24289	27891	1910	1389	22152	25235	1890
	-35	1760	29337	34368	1910	1583	25982	30043	1880	1524	24888	28653	1870	1406	22736	25947	1850
	-30	1777	30341	35610	1880	1600	26897	31159	1850	1541	25766	29719	1840	1423	23554	26930	1820
	-25	1794	33117	38957	1870	1616	29342	34066	1840	1557	28113	32497	1820	1439	25701	29447	1800
	-20	1810	36918	43500	1860	1633	32683	38008	1830	1574	31308	36250	1810	1456	28613	32838	1790
	-15	1826	45732	53780	1900	1649	40368	46872	1850	1590	38636	44669	1840	1472	35253	40409	1810
	-10	1842	65126	76604	2020	1665	57002	66212	1950	1606	54411	62937	1930	1488	49395	56653	1890
-5	1858	108253	127832	2310	1681	92673	108018	2190	1622	87860	101964	2160	1504	78741	90589	2080	
1 0 0 0 0	-54	1667	24564	28066	2030	1490	21661	24475	2010	1430	20712	23310	2000	1312	18842	21038	1980
	-40	1712	25007	28814	1920	1535	22123	25184	1890	1476	21180	24013	1880	1358	19322	21727	1860
	-35	1726	25577	29559	1880	1549	22646	25854	1850	1490	21688	24659	1850	1372	19800	22327	1830
	-30	1740	26400	30615	1850	1563	23390	26790	1820	1504	22406	25557	1810	1386	20467	23151	1800
	-25	1756	28594	33244	1830	1579	25332	29086	1800	1520	24268	27748	1790	1402	22172	25139	1770
	-20	1772	31536	36721	1820	1595	27928	32116	1790	1536	26753	30637	1780	1418	24443	27756	1760
	-15	1788	38149	44361	1840	1611	33720	38736	1800	1552	32283	36934	1790	1434	29466	33435	1760
	-10	1804	51579	60013	1910	1627	45336	52118	1860	1568	43328	49609	1840	1450	39416	44764	1810
	-5	1820	76833	89668	2070	1643	66703	76897	1990	1583	63503	72907	1960	1465	57346	65297	1920
	0	1834	133639	161057	2470	1657	112245	130359	2300	1598	105806	122317	2250	1480	93809	107464	2160
3					1667	190389	232704	2870	1608	173157	208887	2740	1490	145292	171741	2530	
9 5 0 0	-54	1647	21498	24046	2000	1470	18964	20996	1980	1411	18135	20009	1970	1293	16496	18076	1960
	-35	1701	22341	25326	1850	1524	19782	22180	1830	1465	18943	21162	1820	1347	17287	19170	1810
	-30	1711	23024	26252	1820	1534	20395	22992	1800	1475	19533	21937	1790	1357	17833	19876	1770
	-25	1721	24813	28458	1800	1544	21975	24909	1770	1485	21046	23763	1760	1367	19214	21525	1750
	-20	1733	27168	31286	1780	1556	24049	27368	1750	1497	23033	26107	1750	1379	21027	23642	1730
	-15	1750	32251	37106	1790	1572	28516	32429	1760	1513	27300	30924	1750	1395	24908	27995	1730
	-10	1765	41961	48316	1830	1587	36961	42070	1790	1528	35343	40072	1780	1410	32176	36198	1750
	-5	1780	58320	67330	1920	1603	50979	58169	1870	1544	48630	55272	1850	1426	44071	49697	1810
	0	1795	87442	101490	2110	1618	75247	86262	2020	1559	71434	81554	1990	1441	64149	72635	1930
	3	1804	117871	137433	2320	1626	99644	114643	2180	1567	94091	107782	2140	1449	83665	95010	2080
5	1809	155725	184153	2590	1632	128025	148486	2380	1573	120051	138373	2320	1455	105417	120118	2210	
9 0 0 0	-54	1631	18886	20597	1980	1454	16666	18027	1960	1395	15937	17191	1950	1277	14496	15550	1940
	-35	1684	19557	21593	1830	1507	17323	18955	1810	1448	16591	18099	1800	1330	15139	16415	1790
	-30	1694	20107	22327	1790	1517	17813	19595	1770	1458	17062	18709	1770	1340	15577	16973	1750
	-25	1696	21573	24231	1770	1518	19104	21238	1750	1459	18295	20269	1740	1341	16696	18369	1730
	-20	1699	23499	26653	1750	1522	20794	23327	1730	1463	19908	22251	1720	1344	18159	20147	1710
	-15	1708	27535	31351	1750	1531	24334	27399	1720	1471	23288	26124	1710	1353	21229	23636	1700
	-10	1723	34781	39636	1770	1546	30658	34553	1740	1487	29318	32921	1730	1369	26686	29743	1710
	-5	1738	46072	52627	1830	1561	40408	45644	1780	1502	38581	43418	1770	1384	35015	39109	1740
	0	1753	63610	72945	1930	1576	55293	62681	1870	1517	52647	59452	1850	1398	47530	53259	1810
	5	1767	94237	108587	2130	1590	80539	91673	2020	1531	76287	86482	1990	1413	68203	76692	1930
7	1773	117407	135777	2280	1596	98927	112918	2150	1537	93310	106051	2100	1418	82757	93263	2020	
8 5 0 0	-54	1615	16652	17720	1960	1437	14695	15541	1940	1378	14054	14833	1930	1260	12776	13429	1920
	-35	1666	17193	18500	1810	1489	15229	16273	1790	1430	14583	15547	1780	1312	13304	14118	1770
	-30	1676	17631	19078	1770	1499	15625	16783	1750	1440	14965	16035	1750	1321	13659	14563	1740
	-25	1677	18809	20591	1750	1500	16660	18087	1730	1441	15954	17272	1720	1323	14556	15671	1710
	-20	1676	20356	22574	1720	1498	18013	19789	1700	1439	17244	18885	1700	1321	15724	17112	1690
	-15	1669	23639	26802	1720	1491	20873	23245	1690	1432	19967	22158	1690	1314	18179	20032	1670
	-10	1679	29213	33002	1730	1502	25741	28771	1700	1443	24608	27406	1690	1325	22378	24744	1670
	-5	1694	37351	42286	1760	1517	32801	36737	1720	1458	31325	34958	1710	1340	28432	31501	1690
	0	1708	48892	55527	1820	1531	42698	47963	1770	1472	40702	45554	1750	1354	36829	40915	



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

**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	1850	58662	72482	2340	1673	51287	62279	2270	1614	48945	59096	2250	1496	44424	53029	2210
	-50	1868	58935	73040	2300	1691	51574	62817	2240	1631	49237	59628	2210	1513	44723	53546	2170
	-45	1886	59533	74026	2260	1709	52154	63734	2190	1650	49811	60523	2170	1532	45284	54397	2130
	-40	1908	61129	76080	2220	1730	53599	65571	2160	1671	51208	62290	2140	1553	46589	56034	2090
	-35	1924	62871	78309	2190	1747	55171	67557	2120	1687	52726	64200	2100	1569	48004	57798	2060
	-30	1942	68989	86176	2200	1765	60391	74169	2130	1706	57694	70452	2100	1588	52460	63341	2060
	-25	1960	81362	102269	2260	1783	70791	87403	2170	1724	67486	82833	2140	1606	61165	74203	2090
-20	1978	104851	132137	2410	1800	90121	111407	2290	1741	85605	105170	2250	1623	77086	93557	2180	
-18	1985	121073	152657	2520	1807	103155	127417	2370	1748	97745	119952	2330	1630	87630	106190	2250	
-17					1811	115607	142973	2470	1752	109238	134183	2410	1634	97448	118149	2320	
1 2 0 0 0	-54	1841	54752	67295	2310	1664	47961	57964	2240	1605	45800	55045	2220	1487	41606	49453	2180
	-50	1856	54989	67791	2270	1679	48214	58445	2200	1620	46055	55517	2180	1502	41873	49917	2140
	-45	1875	55516	68666	2220	1698	48729	59264	2160	1639	46566	56317	2140	1521	42376	50682	2100
	-40	1893	56930	70487	2190	1716	50017	60902	2120	1657	47813	57896	2100	1539	43545	52149	2070
	-35	1912	58474	72463	2150	1735	51416	62670	2090	1676	49167	59599	2070	1558	44810	53725	2030
	-30	1930	63772	79261	2150	1753	55981	68426	2090	1694	53508	65041	2070	1576	48729	58582	2030
	-25	1948	74306	92840	2200	1771	64899	79704	2120	1712	61938	75636	2090	1594	56267	67937	2050
-20	1966	93607	117100	2310	1789	81004	99526	2210	1730	77096	94170	2180	1612	69667	84114	2120	
-17	1976	118509	148288	2490	1799	101226	124242	2350	1740	95979	117078	2310	1622	86138	103818	2330	
-16					1802	114853	141105	2450	1743	108579	132550	2400	1625	96930	116880	2300	
1 2 0 0 0	-54	1828	50781	62017	2270	1651	44561	53543	2210	1592	42572	50877	2190	1474	38710	45766	2150
	-50	1843	50986	62451	2230	1666	44784	53968	2170	1607	42799	51298	2150	1489	38947	46179	2120
	-45	1862	51444	63218	2180	1685	45236	54691	2130	1626	43250	52006	2110	1508	39394	46859	2070
	-40	1880	52686	64819	2150	1703	46373	56135	2090	1644	44353	53402	2070	1526	40430	48158	2040
	-35	1898	54039	66549	2110	1721	47605	57691	2060	1662	45546	54902	2040	1544	41550	49553	2010
	-30	1916	58593	72357	2110	1739	51556	62647	2050	1680	49311	59597	2030	1562	44961	53760	1990
	-25	1934	67468	83706	2140	1757	59128	72157	2070	1698	56486	68556	2050	1580	51392	61696	2010
-20	1951	83251	103323	2230	1774	72477	88435	2140	1715	69072	83814	2110	1597	62603	75128	2060	
-16	1965	115370	143113	2450	1788	98798	120379	2320	1729	93707	113520	2280	1611	84215	100865	2200	
-15					1792	111848	136312	2420	1733	105839	128231	2370	1615	94630	113339	2280	
1 8 0 0	-54	1815	47251	57357	2240	1638	41511	49602	2180	1579	39684	47169	2160	1461	36109	42472	2130
	-50	1830	47428	57740	2200	1653	41718	49991	2140	1594	39886	47545	2120	1476	36320	42841	2090
	-45	1848	47829	58417	2150	1671	42118	50632	2100	1612	40285	48174	2080	1494	36717	43447	2050
	-40	1867	48928	59832	2110	1690	43127	51915	2060	1630	41265	49413	2050	1512	37643	44605	2010
	-35	1885	50119	61355	2080	1707	44218	53291	2030	1648	42324	50744	2010	1530	38638	45845	1980
	-30	1903	54074	66371	2070	1725	47666	57594	2020	1666	45613	54827	2000	1548	41616	49505	1960
	-25	1920	61640	75979	2090	1743	54164	65706	2030	1684	51785	62486	2010	1566	47180	56328	1970
-20	1938	74790	92173	2160	1761	65366	79264	2080	1702	62393	75255	2060	1583	56677	67635	2010	
-15	1955	112358	138251	2420	1778	96433	116685	2290	1719	91546	110169	2250	1601	82336	98021	2180	
-14					1781	108955	131789	2380	1722	103187	124129	2340	1604	92382	109938	2250	
1 1 6 0 0	-54	1802	44088	53209	2210	1625	38786	46098	2150	1566	37081	43846	2140	1448	33756	39508	2110
	-50	1817	44243	53549	2170	1639	38960	46435	2120	1580	37280	44181	2100	1462	33946	39840	2070
	-45	1835	44597	54150	2120	1658	39316	47007	2070	1599	37616	44744	2060	1481	34303	40384	2030
	-40	1853	45572	55406	2080	1676	40217	48150	2040	1617	38493	45851	2020	1499	35132	41420	1990
	-35	1871	46628	56755	2050	1694	41187	49374	2000	1635	39436	47036	1990	1517	36022	42529	1960
	-30	1889	50087	61120	2040	1712	44216	53137	1990	1652	42331	50613	1970	1534	38659	45755	1940
	-25	1906	56605	69345	2050	1729	49845	60123	1990	1670	47684	57219	1980	1552	43492	51651	1940
-20	1924	67722	82928	2100	1746	59381	71589	2030	1687	56735	68045	2010	1569	51627	61289	1970	
-15	1941	97716	119379	2300	1764	84516	101639	2200	1705	80413	96205	2160	1587	72605	85973	2100	
-14	1944	109449	133650	2390	1767	94120	113138	2260	1708	89396	106905	2230	1590	80453	95229	2150	
-13	1947	124347	151700	2500	1770	106155	127496	2350	1711	100606	120213	2310	1593	90206	106691	2220	
1 1 4 0 0	-54	1788	41240	49495	2180	1611	36314	42935	2130	1552	34724	40852	2120	1434	31622	36833	2090
	-50	1803	41377	49799	2140	1626	36469	43238	2090	1567	34886	41154	2080	1449	31794	37132	2050
	-45	1821	41691	50334	2100	1644	36787	43750	2050	1585	35206	41659	2040	1467	32116	37622	2010
	-40	1839	42562	51454	2060	1662	37594	44773	2010	1603	35992	42651	2000	1485	32862	38553	1970
	-35	1857	43503	52657	2020	1680	38468	45875	1980	1621	36836	43712	1960	1503	33661	39549	1940
	-30	1875	46548	56482	2010	1697	41140	49181	1960	1638	39398	46865	1950	1520	36001	42399	1920
	-25	1892	52221	63595	2010	1715	46055	55245	1960	1656	44079	52609	1940	1538	40238	47541	1910
-20	1909	61742	75147	2050	1732	54260	65055	1990	1673	51881	61894	1970	1555	47272	55839	1930	
-15	1926	86231	104690	2210	1749	75001	89694	2120	1690	71478	85056	2090	1572	64722	76256	2040	
-13	1933	106640	129286	2360	1756	91867	109734	2240	1697	87296	103762	2200	1579	78622	92541	2130	

Figure 4-29 (Sheet 29)



MODEL 525A

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

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 0 0	-54	1761	36317	43186	2130	1584	32016	37513	2090	1525	30623	35710	2080	1407	27896	32220	2050
	-50	1776	36425	43411	2090	1598	32142	37760	2050	1539	30755	35957	2040	1421	28038	32467	2010
	-45	1793	36675	43842	2050	1616	32400	38177	2010	1557	31016	36369	2000	1439	28303	32868	1970
	-40	1811	37378	44746	2010	1634	33056	39008	1970	1575	31656	37176	1960	1457	28914	33630	1940
	-35	1828	38134	45715	1980	1651	33764	39901	1940	1592	32341	38038	1920	1474	29565	34441	1900
	-30	1846	40536	48708	1950	1669	35884	42504	1910	1610	34378	40527	1900	1492	31434	36701	1880
	-25	1863	44908	54134	1950	1686	39704	47173	1910	1627	38026	44961	1890	1509	34749	40689	1870
	-20	1880	52069	62736	1970	1703	45935	54564	1920	1644	43965	51976	1910	1526	40130	46990	1870
	-15	1897	69270	83248	2070	1720	60692	71912	2000	1661	57967	68367	1980	1543	52700	61585	1940
	-10	1913	116584	140278	2410	1736	99791	118372	2270	1677	94630	111720	2230	1559	84884	99273	2160
1 0 5 0 0	-54	1726	31277	36722	2080	1549	27589	31956	2050	1490	26390	30429	2040	1372	24036	27463	2010
	-45	1758	31551	37245	2000	1580	27891	32475	1970	1521	26700	30946	1960	1403	24362	27977	1940
	-40	1775	32098	37948	1960	1598	28405	33126	1930	1539	27204	31581	1920	1421	24846	28579	1900
	-35	1792	32685	38699	1930	1615	28955	33819	1890	1556	27742	32255	1880	1438	25359	29215	1860
	-30	1809	34516	40956	1900	1632	30584	35799	1870	1573	29307	34148	1860	1455	26800	30942	1840
	-25	1826	37779	44954	1890	1649	33455	39285	1860	1590	32053	37447	1840	1472	29306	33923	1820
	-20	1843	43004	51164	1900	1666	38033	44641	1860	1607	36426	42562	1840	1488	33285	38538	1820
	-15	1859	54791	65053	1960	1682	48252	56542	1900	1623	46152	53844	1890	1505	42080	48660	1850
	-10	1876	82215	97696	2130	1698	71507	83850	2050	1639	68126	79533	2020	1521	61632	71319	1970
	-7	1885	117475	139961	2390	1708	100291	117884	2250	1649	95015	111181	2210	1531	85058	98637	2130
1 0 0 0 0	-5	1885	117475	139961	2390	1713	133819	203090	2500	1654	125841	173541	2430	1536	111139	134520	2320
	-4	1855	114191	135005	2330	1678	97336	113562	2200	1619	92160	107049	2160	1514	165722	218706	2690
	-54	1691	27136	31461	2040	1514	23935	27397	2010	1455	22891	26090	2000	1337	20836	23545	1980
	-40	1738	27796	32466	1930	1561	24596	28358	1900	1502	23552	27036	1890	1383	21497	24462	1870
	-35	1754	28259	33058	1890	1577	25041	28915	1860	1518	23980	27570	1850	1400	21907	24969	1830
	-30	1771	29684	34797	1860	1594	26307	30440	1830	1535	25206	29039	1820	1417	23039	26312	1800
	-25	1788	32178	37816	1840	1611	28516	33076	1810	1552	27322	31553	1800	1433	24977	28592	1780
	-20	1804	36119	42451	1840	1627	31981	37105	1810	1568	30637	35393	1800	1450	28001	32067	1770
	-15	1821	44592	52339	1870	1643	39374	45637	1830	1584	37688	43498	1820	1466	34391	39357	1790
	-10	1837	62310	73189	1980	1659	54592	63329	1920	1600	52127	60217	1900	1482	47348	54236	1860
9 5 0 0	-5	1852	100628	118758	2240	1675	86451	100709	2130	1616	82026	95143	2090	1498	73636	84672	2030
	-4	1855	114191	135005	2330	1678	97336	113562	2200	1619	92160	107049	2160	1501	82390	94859	2090
	-54	1664	23607	26872	2010	1486	20823	23431	1980	1427	19913	22320	1970	1309	18117	20150	1960
	-45	1692	23786	27226	1930	1515	21025	23783	1910	1456	20122	22671	1900	1338	18340	20501	1880
	-40	1707	24147	27712	1890	1530	21365	24230	1870	1471	20455	23106	1860	1353	18660	20911	1840
	-35	1722	24530	28226	1860	1545	21725	24702	1830	1486	20808	23564	1820	1368	18998	21342	1810
	-30	1735	25688	29684	1830	1558	22758	25981	1800	1499	21800	24786	1790	1381	19912	22454	1780
	-25	1748	27668	32105	1810	1571	24510	28090	1780	1512	23479	26797	1770	1394	21448	24276	1750
	-20	1764	30702	35636	1800	1587	27190	31175	1770	1528	26046	29740	1760	1410	23794	26946	1740
	-15	1781	37001	42912	1810	1603	32710	37482	1780	1544	31316	35741	1770	1426	28582	32358	1740
9 0 0 0	-10	1796	49204	57118	1870	1619	43277	49643	1830	1560	41368	47264	1810	1442	37644	42664	1780
	-5	1812	71732	83576	2010	1635	62394	71812	1940	1576	59434	68126	1920	1457	53728	61080	1870
	0	1827	118037	138467	2330	1650	100043	115815	2190	1591	94550	108978	2150	1473	84221	96229	2070
	-54	1647	20570	22816	1980	1470	18155	19945	1960	1411	17363	19014	1950	1293	15799	17190	1940
	-35	1700	21330	23973	1830	1522	18895	21018	1810	1463	18097	20081	1800	1345	16520	18186	1790
	-30	1707	22280	25233	1800	1530	19738	22113	1780	1471	18905	21103	1770	1353	17260	19126	1760
	-25	1715	23888	27277	1780	1538	21154	23881	1750	1479	20259	22783	1740	1361	18493	20638	1730
	-20	1723	26331	30222	1760	1546	23305	26438	1740	1486	22316	25217	1730	1368	20367	22834	1710
	-15	1739	31134	35718	1760	1561	27525	31218	1740	1502	26349	29769	1730	1384	24035	26946	1710
	-10	1754	39919	45847	1800	1577	35173	39937	1760	1518	33635	38044	1750	1400	30622	34370	1730
8 5 0 0	-5	1769	54538	62826	1880	1592	47724	54341	1830	1533	45539	51652	1810	1415	41292	46469	1780
	0	1783	79043	91467	2030	1606	68283	78065	1950	1547	64898	73894	1920	1429	58403	65960	1870
	4	1796	117918	137265	2290	1619	99576	114393	2160	1560	93994	107511	2110	1441	83516	94705	2040
	5	1800	135055	159149	2410	1623	112791	129846	2250	1564	108127	121620	2200	1446	93750	106477	2110
	-54	1629	18015	19465	1960	1452	15902	17055	1940	1393	15208	16270	1930	1275	13836	14727	1920
	-35	1679	18618	20363	1800	1502	16496	17894	1790	1443	15799	17091	1780	1325	14420	15513	1770
	-30	1688	19372	21352	1770	1511	17167	18755	1750	1452	16438	17906	1750	1334	15010	16253	1740
	-25	1691	20658	23011	1750	1514	18297	20186	1730	1455	17522	19269	1720	1337	15991	17471	1710
	-20	1688	22653	25571	1730	1511	20040	22381	1710	1452	19183	21348	1700	1334	17492	19327	1690
	-15	1694	26460	30049	1730	1517	23374	26255	1700	1458	22366	25030	1690	1340	20377	22636	1680
-10	1709	32990	37507	1750	1532	29077	32698	1710	1473	27803	31151	1700	1355	25301	28139	1680	
5 0 0 0	-5	1724	43082	49110	1790	1547	37803	42617	1750	1488	36097	40542	1740	1370	32756	36516	1710
	0	1739	58035	66381	1870	1562	50548	57162	1810	1503	48157	54250	1800	1385	43520	48652	1760
	5	1753	84690	97313	2040	1576	72694	82533									



## SINGLE-ENGINE TAKEOFF FLIGHT PATH - FLAPS 15° 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 4-32 or 4-33, determine the available climb gradient from Figure 4-40 or 4-41. Using this climb gradient, the required horizontal distance can be determined from Figure 4-30. 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 = 15°
- Anti-Ice Systems = OFF
- Ambient Temperature at Airport = -10°C
- Pressure Altitude at Airport = 1000
- Gross Weight at Brake Release = 12,375 POUNDS
- Wind = 30 KNOTS HEADWIND
- A. Obstacle Height = 200 feet above runway surface
- B. Obstacle Horizontal Distance from Reference Zero = 4000 FEET

From Figure 4-32, the takeoff climb increment (TCI) above the runway surface is 1850 feet. The pressure altitude at the airport plus the takeoff climb increment (TCI) is 2850 feet.

From Figure 4-40, the available climb gradient at a pressure altitude of 2850 feet under the specific conditions is 6.0 percent.

From Figure 4-30, for 6.0 percent gradient, the required horizontal distance to clear the obstacle is 3260 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 (3260 feet).



**SINGLE-ENGINE TAKEOFF FLIGHT PATH TO 1500 FEET  
FIRST AND SECOND SEGMENT FLAPS - 15°**

CONDITIONS: Landing Gear - DOWN/UP      Inoperative Engine - WINDMILLING  
Speed Brakes - RETRACT                      Operative Engine - TAKEOFF THRUST  
Airspeed - V<sub>2</sub>

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	210	240	290	350	460	650	1130	2170
100	470	540	650	720	800	910	1050	1250	1540	1900	2360	3130	4670
150	830	960	1150	1270	1420	1610	1830	2090	2430	2900	3610	4800	7170
200	1190	1380	1640	1800	1980	2190	2460	2800	3260	3900	4860	6460	9670
250	1550	1790	2070	2260	2480	2750	3080	3520	4090	4900	6110	8130	12170
300	1880	2140	2490	2710	2980	3300	3710	4230	4930	5900	7360	9800	14670
350	2190	2500	2910	3170	3480	3860	4330	4950	5760	6900	8610	11460	17170
400	2510	2860	3320	3620	3980	4410	4960	5660	6590	7900	9860	13130	19670
450	2820	3210	3740	4080	4480	4970	5580	6370	7430	8900	11110	14800	22170
500	3130	3570	4160	4530	4980	5530	6210	7090	8260	9900	12360	16460	24670
550	3440	3930	4570	4990	5480	6080	6830	7800	9090	10900	13610	18130	27170
600	3760	4290	4990	5440	5980	6640	7460	8520	9930	11900	14860	19800	29670
650	4070	4640	5410	5890	6480	7190	8080	9230	10760	12900	16110	21460	32170
700	4380	5000	5820	6350	6980	7750	8710	9950	11590	13900	17360	23130	34670
750	4690	5360	6240	6800	7480	8300	9330	10660	12430	14900	18610	24800	37170
800	5010	5710	6660	7260	7980	8860	9960	11370	13260	15900	19860	26460	39670
850	5320	6070	7070	7710	8480	9410	10580	12090	14090	16900	21110	28130	42170
900	5630	6430	7490	8170	8980	9970	11210	12800	14930	17900	22360	29800	44670
950	5940	6790	7910	8620	9480	10530	11830	13520	15760	18900	23610	31460	47170
1000	6260	7140	8320	9080	9980	11080	12460	14230	16590	19900	24860	33130	49670
1050	6570	7500	8740	9530	10480	11640	13080	14950	17430	20900	26110	34800	52170
1100	6880	7860	9160	9990	10980	12190	13710	15660	18260	21900	27360	36460	54670
1150	7190	8210	9570	10440	11480	12750	14330	16370	19090	22900	28610	38130	57170
1200	7510	8570	9990	10890	11980	13300	14960	17090	19930	23900	29860	39800	59670
1250	7820	8930	10410	11350	12480	13860	15580	17800	20760	24900	31110	41460	62170
1300	8130	9290	10820	11800	12980	14410	16210	18520	21590	25900	32360	43130	64670
1350	8440	9640	11240	12260	13480	14970	16830	19230	22430	26900	33610	44800	67170
1400	8760	10000	11660	12710	13980	15530	17460	19950	23260	27900	34860	46460	69670
1450	9070	10360	12070	13170	14480	16080	18080	20660	24090	28900	36110	48130	72170
1500	9380	10710	12490	13620	14980	16640	18710	21370	24930	29900	37360	49800	74670

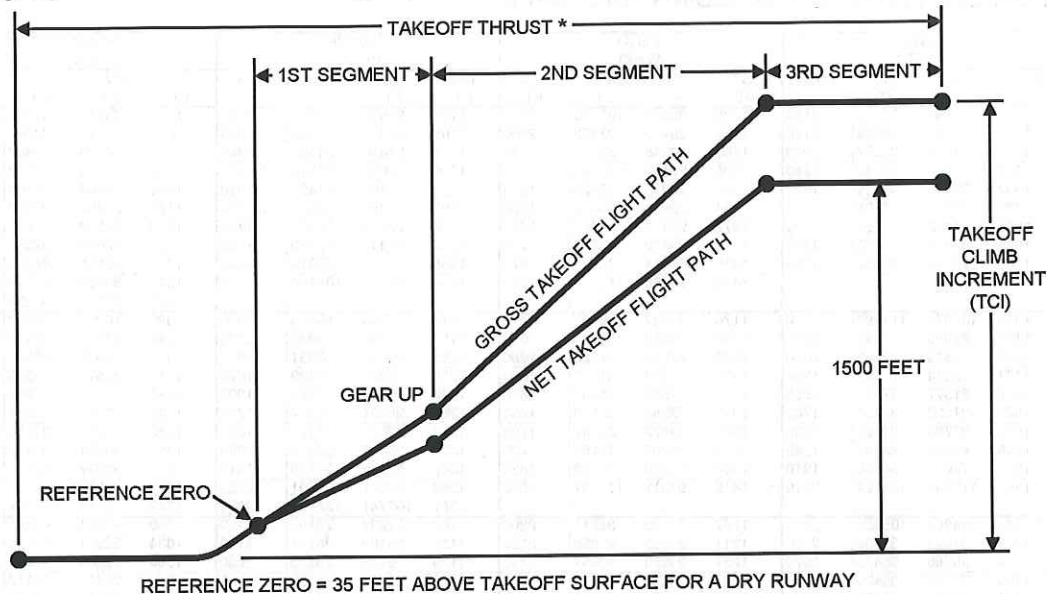
525AFM-06-00

 Figure 4-30



**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES - FLAPS 15°**

The data presented in Figure 4-32 (Anti-ice off) and 4-33 (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.

**CONDITIONS**

SINGLE-ENGINE FLIGHT PATH CONDITIONS:			
	FIRST SEGMENT	SECOND SEGMENT	THIRD SEGMENT
LANDING GEAR	DOWN TRANSITION TO UP	UP	UP
WING FLAP DEGREES	15	15	15 TRANSITIONING TO 0
SPEED BRAKES	RETRACT	RETRACT	RETRACT
INOPERATIVE ENGINE	WINDMILLING	WINDMILLING	WINDMILLING
OPERATIVE ENGINE	T.O. THRUST	T.O. THRUST	T.O. THRUST
AIRSPPEED	V <sub>2</sub>	V <sub>2</sub>	V <sub>2</sub> TRANSITIONING TO V <sub>ENR</sub>

**EXAMPLE:**

Flaps 15°  
 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 4-32.  
 Reference Zero to End of First Segment = 1291 FEET  
 Reference Zero to End of Second Segment = 21,406 FEET  
 Reference Zero to End of Third Segment = 24,599 FEET  
 Takeoff Climb Increment (TCI) = 1650 FEET

Calculate the level off altitude by adding the takeoff climb increment to the airport barometric altitude. 3925 + 1650 = 5575 FEET.

Figure 4-31



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

**FLAPS - 15°  
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	1362	114957	120292	3190	1185	98504	102579	3020	1125	91936	96677	2950	1007	78511	85004	2810
	-30	1431	34281	39339	2110	1254	29422	33352	2060	1195	27850	31438	2040	1077	24771	27744	2020
	-20	1457	34097	39337	2020	1280	29348	33436	1980	1221	27810	31550	1960	1103	24798	27892	1940
	-10	1482	33776	39148	1940	1305	29154	33362	1900	1246	27656	31511	1890	1128	24721	27923	1860
	0	1507	33412	38904	1870	1329	28919	33238	1830	1270	27461	31425	1810	1152	24604	27908	1790
	10	1531	33027	38631	1800	1354	28660	33085	1760	1295	27242	31309	1750	1176	24462	27879	1730
	20	1555	34403	40560	1740	1377	29877	34751	1710	1318	28410	32894	1700	1200	25537	29297	1630
	30	1573	44405	52470	1760	1396	38383	44751	1720	1337	36448	42310	1700	1219	32682	37584	1670
	40	1593	79079	92557	1960	1416	67011	77475	1870	1356	63245	72810	1840	1238	56058	64005	1790
	44					1425	98276	112799	2080	1366	92012	105194	2030	1248	80383	91174	1950
45													1248	90311	102229	2010	
1 2 0 0	-54	1354	108374	114983	3120	1176	87937	96457	2910	1117	81718	89390	2840	999	70067	76200	2720
	-30	1423	32685	37442	2090	1246	28056	31763	2050	1187	26556	29940	2030	1069	23617	26404	2000
	-20	1449	32513	37442	2010	1272	27967	31828	1960	1213	26520	30031	1950	1095	23645	26545	1920
	-10	1474	32214	37268	1930	1297	27809	31762	1890	1238	26379	29999	1870	1119	23577	26579	1850
	0	1498	31877	37044	1850	1321	27593	31651	1820	1262	26201	29924	1800	1144	23472	26585	1780
	10	1522	31520	36794	1780	1345	27354	31513	1750	1286	26001	29837	1740	1168	23344	26549	1720
	20	1546	32780	38565	1730	1369	28472	33047	1700	1310	27075	31282	1690	1192	24335	27858	1670
	30	1566	41878	49389	1740	1389	36227	42151	1700	1330	34408	39859	1690	1212	30861	35434	1660
	40	1584	72022	84248	1910	1406	61256	70800	1830	1347	57875	66596	1810	1229	51397	58664	1760
	45	1595	117542	145174	2210	1418	97011	111187	2060	1359	90841	103701	2020	1241	79352	89904	1930
46									1361	102741	123401	2090	1242	89165	100787	2000	
1 2 0 0	-54	1344	94968	105205	2980	1167	77580	85211	2800	1108	72238	79102	2740	990	62161	67661	2630
	-40	1389	31023	35308	2160	1211	26553	29856	2120	1152	25103	28111	2110	1034	22261	24736	2080
	-30	1414	30986	35430	2070	1237	26599	30057	2030	1178	25176	28330	2020	1060	22384	24977	1990
	-20	1440	30826	35431	1990	1262	26537	30118	1950	1203	25149	28420	1940	1085	22413	25112	1910
	-10	1464	30551	35272	1910	1287	26374	30061	1870	1228	25017	28391	1860	1110	22354	25163	1840
	0	1489	30241	35069	1840	1311	26177	29963	1800	1252	24856	28342	1790	1134	22262	25160	1770
	10	1512	29913	34841	1770	1335	25960	29857	1740	1276	24674	28252	1730	1158	22147	25132	1710
	20	1536	31055	36453	1720	1359	26978	31241	1690	1300	25653	29571	1680	1182	23054	26330	1660
	30	1556	39250	46194	1720	1379	33978	39469	1680	1320	32277	37307	1670	1201	28956	33170	1650
	40	1573	65187	76215	1860	1396	55629	64230	1790	1337	52610	60493	1770	1219	46804	53364	1720
46	1585	113677	134145	2170	1408	93981	107595	2030	1349	88040	100385	1990	1231	76955	87073	1910	
1 1 8 0	-54	1335	84201	93342	2870	1158	69150	75999	2710	1099	64489	70644	2660	981	55647	60567	2560
	-30	1405	29408	33540	2060	1228	25243	28453	2020	1169	23890	26816	2010	1051	21235	23635	1980
	-20	1430	29259	33540	1980	1253	25187	28510	1940	1194	23863	26897	1930	1076	21265	23777	1900
	-10	1455	29005	33395	1900	1278	25038	28461	1860	1219	23748	26893	1850	1100	21214	23815	1830
	0	1479	28719	33210	1830	1302	24858	28374	1790	1243	23601	26837	1780	1125	21132	23818	1760
	10	1502	28417	33002	1760	1325	24659	28280	1730	1266	23436	26757	1720	1148	21030	23796	1700
	20	1526	29455	34470	1710	1349	25589	29543	1680	1290	24331	27963	1670	1172	21862	24894	1650
	30	1546	36864	43281	1710	1368	31940	36988	1670	1309	30335	34976	1660	1191	27217	31100	1630
	40	1563	59385	69345	1820	1386	50813	58599	1750	1327	48093	55226	1730	1209	42843	48772	1690
	48					1402	102835	118773	2080	1343	96062	109153	2030	1225	83528	94168	1940
49													1227	94125	111202	2010	
1 1 6 0	-54	1326	75364	83627	2770	1148	62154	68333	2630	1089	58035	63607	2590	971	50186	54630	2510
	-30	1396	27937	31796	2050	1219	23978	26970	2010	1160	22690	25415	2000	1042	20161	22405	1970
	-20	1421	27798	31796	1960	1244	23927	27024	1930	1184	22667	25507	1920	1066	20192	22528	1890
	-10	1445	27563	31662	1890	1268	23790	26996	1850	1209	22562	25492	1840	1091	20148	22567	1820
	0	1469	27299	31493	1810	1292	23626	26919	1780	1233	22429	25444	1770	1115	20076	22574	1750
	10	1492	27020	31304	1750	1315	23444	26820	1720	1256	22278	25374	1710	1138	19985	22572	1690
	20	1516	27967	32646	1690	1338	24295	27978	1670	1279	23099	26480	1660	1161	20749	23582	1640
	30	1535	34687	40622	1690	1358	30056	34737	1650	1299	28556	32857	1640	1181	25621	29216	1620
	40	1552	54396	63438	1780	1375	46643	53728	1720	1316	44173	50660	1700	1198	39392	44799	1670
	48					1393	98555	112302	2050	1334	92135	104583	2000	1216	80214	90355	1910
49													1217	89708	100852	1980	
1 1 4 0	-54	1317	67881	75373	2690	1140	56182	61794	2570	1080	52512	57569	2530	962	45490	49536	2460
	-30	1386	26564	30198	2030	1209	22795	25595	2000	1150	21567	24129	1980	1032	19155	21250	1960
	-20	1411	26435	30183	1950	1234	22748	25662	1920	1175	21547	24204	1910	1057	19187	21368	1880
	-10	1435	26216	30060	1870	1258	22623	25625	1840	1199	21452	24194	1830	1081	19149	21421	1810
	0	1459	25971	29906	1800	1282	22472	25556	1770	1223	21331	24152	1760	1105	19085	21432	1740
	10	1483	25713	29732	1740	1306	22305	25468	1710	1247	21193	24091	1700	1129	19004	21422	1680
	20	1505	26579	30963	1680	1328	23085	26532	1660	1269	21947	25108	1650	1151	19707	22353	1630
	30	1525	32692	38228	1670	1348	28335	32677	1640	1289	26922	30908	1630	1170	24153	27496	1610
	40	1542	50058	58337	1750	1365	42995	49475	1700	1306	40737	46691	1680	1188	36356	41314	1650
	50	1561	114249	136362	2150	1383	94111	107153	2010	1324	88050	99894	1960	1206	76758	86396	1880
51					1385	105882	130522										



MODEL 525A

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

FLAPS - 15°  
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	1299	56146	62908	2570	1122	46707	51764	2470	1062	43719	48291	2440	944	37962	41613	2380
	-30	1367	24072	27581	2010	1190	20643	23354	1980	1131	19525	21990	1970	1013	17324	19347	1940
	-20	1392	23958	27577	1930	1214	20605	23412	1900	1155	19510	22068	1890	1037	17356	19463	1870
	-10	1415	23769	27483	1850	1238	20499	23392	1820	1179	19431	22085	1810	1061	17328	19512	1800
	0	1439	23558	27376	1780	1262	20366	23341	1750	1203	19330	22062	1750	1084	17278	19536	1730
	10	1462	23336	27238	1720	1285	20230	23297	1690	1226	19215	22023	1680	1107	17214	19554	1670
	20	1484	24064	28291	1660	1307	20891	24224	1640	1248	19855	22910	1630	1130	17814	20368	1610
	30	1503	29164	34421	1650	1326	25281	29417	1620	1267	24018	27814	1610	1149	21539	24717	1590
	40	1520	42873	50489	1700	1343	36913	42891	1650	1284	34996	40465	1640	1166	31262	35829	1610
	50	1537	84959	99069	1940	1360	71253	82088	1840	1300	67009	76885	1810	1182	58955	67079	1760
53	1544	117040	159047	2150	1366	95994	109952	2000	1307	89687	102319	1960	1189	77976	88287	1880	
1 5 0	-54	1276	45504	50884	2460	1099	38000	42018	2380	1039	35603	39229	2350	921	30958	33851	2300
	-30	1343	21358	24311	1980	1166	18295	20564	1950	1107	17294	19364	1940	989	15320	17013	1930
	-20	1367	21261	24320	1900	1189	18265	20627	1880	1130	17285	19433	1870	1012	15352	17116	1850
	-10	1390	21102	24242	1830	1213	18178	20614	1800	1154	17221	19440	1790	1036	15335	17163	1780
	0	1413	20925	24141	1760	1236	18073	20579	1740	1177	17140	19426	1730	1059	15298	17188	1710
	10	1435	20739	24027	1700	1258	17958	20530	1670	1199	17047	19397	1670	1081	15250	17200	1650
	20	1458	21329	24881	1640	1280	18499	21286	1620	1221	17573	20124	1610	1103	15746	17869	1600
	30	1476	25448	29812	1620	1299	22053	25485	1590	1240	20945	24090	1580	1122	18766	21390	1570
	40	1493	35912	42067	1640	1316	30970	35781	1610	1257	29371	33783	1600	1138	26246	29916	1570
	50	1508	63189	73659	1790	1331	53609	61707	1720	1272	50585	57983	1700	1154	44770	50857	1660
55	1517	96506	111653	1990	1340	80085	91584	1880	1281	75063	85491	1840	1163	65612	74126	1780	
1 0 0	-54	1252	37678	41986	2370	1075	31525	34754	2310	1016	29547	32455	2290	898	25695	28003	2250
	-30	1336	18807	21115	1960	1159	16123	17892	1930	1100	15244	16858	1920	982	13509	14814	1910
	-20	1360	18719	21094	1880	1183	16095	17923	1860	1124	15236	16906	1850	1006	13537	14905	1830
	-10	1384	18579	21008	1810	1207	16020	17898	1780	1148	15181	16900	1780	1030	13524	14937	1760
	0	1408	18423	20900	1740	1231	15929	17865	1720	1172	15111	16875	1710	1054	13495	14950	1700
	10	1431	18259	20782	1680	1254	15829	17808	1660	1195	15032	16837	1650	1077	13455	14951	1640
	20	1454	18723	21432	1620	1277	16261	18381	1600	1218	15454	17403	1600	1100	13858	15478	1580
	30	1448	22329	25958	1600	1271	19333	22174	1570	1212	18353	20951	1560	1094	16423	18581	1550
	40	1464	30491	35488	1600	1287	26308	30213	1570	1228	24950	28524	1560	1110	22286	25247	1540
	50	1479	49383	57369	1690	1302	42149	48343	1640	1243	39838	45511	1620	1125	35359	40025	1590
55	1487	68721	79537	1800	1310	57937	66234	1720	1251	54553	62121	1700	1133	48073	54277	1650	
9 5 0	-54	1228	31679	35166	2310	1050	26520	29119	2260	991	24854	27188	2240	873	21597	23450	2200
	-30	1333	16614	18428	1940	1156	14260	15771	1920	1097	13488	14840	1910	979	11960	13107	1890
	-20	1357	16541	18497	1860	1180	14238	15777	1840	1121	13482	14958	1830	1003	11987	13248	1820
	-10	1381	16424	18413	1790	1204	14178	15745	1770	1145	13440	14944	1760	1027	11980	13268	1750
	0	1405	16295	18316	1720	1228	14105	15700	1700	1169	13385	14917	1700	1051	11960	13274	1680
	10	1429	16161	18213	1660	1251	14021	15645	1640	1192	13322	14882	1640	1074	11932	13271	1620
	20	1452	16539	18736	1600	1275	14381	16134	1590	1215	13671	15357	1580	1097	12268	13723	1570
	30	1434	19510	22359	1570	1257	16899	19121	1550	1198	16043	18071	1550	1080	14353	16033	1530
	40	1435	26145	30222	1570	1258	22551	25721	1550	1199	21381	24276	1540	1081	19079	21479	1520
	50	1450	39838	46064	1620	1273	34105	38932	1580	1214	32260	36673	1570	1096	28663	32292	1540
55	1457	52219	60294	1680	1280	44368	50583	1630	1221	41869	47527	1610	1103	37036	41693	1580	
9 0 0	-54	1202	26942	29760	2260	1025	22543	24628	2210	966	21110	22990	2200	848	18319	19801	2170
	-30	1331	14747	16460	1920	1153	12669	14092	1900	1094	11986	13254	1890	976	10634	11792	1880
	-20	1355	14685	16427	1840	1178	12652	14101	1820	1119	11984	13373	1820	1000	10660	11842	1810
	-10	1379	14587	16358	1770	1201	12603	14079	1750	1142	11950	13367	1750	1024	10658	11865	1740
	0	1402	14480	16396	1710	1225	12544	14046	1690	1166	11907	13349	1680	1048	10644	11876	1670
	10	1426	14367	16313	1640	1249	12478	14007	1630	1190	11856	13325	1620	1072	10624	11880	1610
	20	1449	14680	16650	1590	1272	12776	14433	1570	1213	12149	13638	1570	1095	10907	12279	1560
	30	1430	17060	19221	1560	1253	14795	16622	1540	1194	14051	15704	1530	1076	12580	14005	1520
	40	1406	22588	25904	1550	1229	19463	22038	1520	1169	18442	20789	1520	1051	16431	18368	1500
	50	1419	32843	37748	1570	1242	28150	31950	1540	1183	26631	30097	1530	1065	23657	26509	1510
55	1426	41326	47496	1610	1249	35245	39988	1560	1190	33292	37620	1550	1072	29489	33034	1520	
8 5 0	-54	1175	23101	25493	2220	998	19300	21059	2180	939	18063	19645	2170	821	15633	16872	2140
	-30	1328	13134	14743	1900	1151	11292	12615	1890	1092	10685	11919	1880	973	9483	10549	1870
	-20	1352	13081	14725	1830	1175	11278	12634	1810	1116	10684	11951	1810	997	9507	10604	1800
	-10	1376	12998	14672	1760	1199	11238	12623	1740	1139	10658	11953	1740	1021	9508	10632	1730
	0	1399	12908	14607	1690	1222	11189	12599	1680	1163	10623	11943	1670	1045	9500	10649	1660
	10	1423	12813	14655	1630	1246	11135	12569	1620	1187	10582	11926	1610	1068	9485	10659	1600
	20	1444	13075	14982	1580	1267	11387	12984	1560	1208	10830	12226	1560	1090	9727	10946	1550
	30	1427	15005	17061	1540	1249	13025	14652	1520	1190	12373	13937	1520	1072	11083	12426	1510
	40	1386	19470	22157	1520	1209	16776	18855	1500	1150	15894	17785	1500	1031	14152	15707	1480



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

**FLAPS - 15°  
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	1383	89783	100132	2910	1206	74119	81930	2740	1147	69244	76296	2690	1029	60062	65755	2590
	-30	1454	34577	39813	2090	1277	29757	33844	2050	1218	28196	31934	2030	1099	25138	28232	2000
	-20	1480	34457	39865	2010	1303	29736	33975	1970	1244	28206	32090	1950	1125	25208	28435	1930
	-10	1505	34132	39683	1930	1328	29543	33912	1890	1269	28052	32062	1880	1151	25131	28473	1850
	0	1530	33782	39467	1860	1353	29311	33822	1820	1294	27860	32007	1810	1176	25015	28485	1780
	10	1555	33831	39904	1790	1378	29400	34210	1750	1319	27963	32389	1740	1201	25147	28858	1720
	20	1578	38146	45292	1760	1401	33111	38759	1720	1342	31485	36686	1710	1224	29308	32678	1690
	30	1598	52434	62110	1810	1421	45206	52817	1760	1362	42897	49911	1740	1244	38423	44282	1710
	40	1618	106881	124851	2150	1441	89137	102882	2020	1382	83739	96270	1980	1264	73610	83968	1910
	41					1444	99671	118427	2090	1385	93376	107146	2050	1267	81670	92971	1960
42													1269	91796	104272	2030	
1 2 0 0 0	-54	1375	81437	90914	2820	1198	67481	74620	2670	1139	63133	69598	2630	1020	54851	60084	2540
	-30	1446	32960	37885	2080	1269	28372	32211	2040	1210	26879	30389	2020	1091	23961	26861	1990
	-20	1472	32847	37934	1990	1294	28350	32332	1950	1235	26890	30537	1940	1117	24029	27054	1910
	-10	1497	32551	37775	1920	1320	28172	32277	1880	1261	26749	30532	1870	1143	23960	27110	1840
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1 2 0 0 0	-54	1365	73392	81999	2730	1188	61027	67523	2600	1129	57153	63031	2560	1011	49743	54493	2490
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	-30	1436	31239	35841	2060	1259	26888	30469	2020	1200	25476	28747	2010	1082	22704	25403	1980
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	20	1559	34157	40365	1730	1382	29672	34586	1700	1323	28219	32741	1680	1205	25373	29165	1660
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1 8 0 0	-54	1357	66494	74272	2660	1179	55456	61336	2550	1120	51980	57296	2510	1002	45308	49816	2440
	-40	1401	29635	33742	2140	1224	25433	28622	2090	1165	24068	26974	2080	1047	21388	23772	2050
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	30	1569	42509	50049	1740	1392	36776	42727	1690	1332	34930	40408	1680	1214	31333	35911	1650
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45					1421	103911	120713	2100	1362	97122	110719	2050	1243	84563	95680	1960	
1 1 6 0 0	-54	1348	60604	67692	2600	1170	50666	56014	2490	1111	47522	52375	2460	993	41470	45376	2400
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	10	1538	30536	35870	1700	1361	26536	30746	1670	1302	25236	29105	1660	1184	22686	25936	1640
	20	1558	39732	46684	1720	1381	34399	39879	1680	1322	32679	37720	1660	1204	29319	33546	1640
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	46					1411	100268	114634	2060	1352	93772	106796	2020	1234	81721	92359	1930
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1 1 4 0 0	-54	1339	55517	61982	2550	1161	46504	51392	2450	1102	43642	48074	2420	984	38117	41696	2360
	-40	1383	26760	30341	2110	1205	22958	25729	2070	1146	21720	24241	2060	1028	19286	21359	2030
	-30	1408	26762	30494	2020	1231	23026	25913	1980	1172	21809	24454	1970	1054	19418	21591	1950
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	40	1565	60819	70988	1810	1388	52003	59956	1750	1329	49209	56469	1730	1211	43821	49	



MODEL 525A

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

FLAPS - 15°  
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
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	-40	1364	24243	27390	2080	1186	20785	23212	2050	1127	19657	21862	2040	1009	17436	19244	2020
	-30	1389	24241	27506	2000	1212	20843	23373	1960	1153	19735	22037	1950	1034	17551	19446	1930
	-20	1415	24165	27538	1920	1238	20836	23460	1890	1178	19749	22155	1880	1060	17613	19590	1860
	-10	1438	23976	27457	1840	1260	20729	23450	1810	1201	19668	22155	1800	1083	17579	19641	1790
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	20	1507	26037	30357	1670	1330	22623	26017	1640	1270	21509	24638	1630	1152	19319	21924	1610
	30	1526	32852	38358	1660	1349	28477	32816	1630	1290	27059	31043	1620	1172	24278	27605	1600
	40	1543	50813	59180	1740	1366	43629	50179	1690	1307	41333	47351	1670	1189	36881	41872	1640
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1 0 5 0 0	-54	1297	39205	44038	2370	1120	32996	36658	2310	1061	31000	34295	2290	943	27112	29768	2250
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	20	1498	28352	33367	1630	1321	24580	28523	1600	1262	23352	26970	1590	1144	20941	23953	1570
	30	1515	41588	48892	1670	1338	35816	41525	1630	1279	33958	39199	1620	1161	30336	34710	1590
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	30	1486	34696	40558	1620	1309	29924	34502	1590	1250	28379	32576	1580	1132	25357	28845	1560
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8 5 0 0	-54	1194	21007	23225	2180	1017	17637	19285	2150	958	16537	18022	2140	840	14372	15550	2110
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**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES  
AND TAKEOFF CLIMB INCREMENT (TCI)  
ANTI-ICE SYSTEMS OFF**

**FLAPS - 15°  
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	1405	69704	78565	2680	1228	58429	65201	2560	1169	54878	61026	2520	1051	48063	53068	2450
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	-30	1477	34425	39847	2080	1300	29706	33956	2030	1241	28176	32070	2020	1123	25178	28413	1910
	-20	1503	34315	39916	1990	1326	29691	34100	1950	1267	28192	32238	1940	1149	25253	28626	1910
	-10	1529	34043	39900	1920	1352	29535	34102	1880	1293	28073	32271	1880	1175	25204	28718	1840
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	10	1580	35743	42427	1790	1403	31097	36394	1760	1344	29592	34474	1740	1226	26645	30753	1720
	20	1602	43726	52238	1790	1425	37897	44644	1750	1366	36023	42220	1730	1248	32373	37574	1700
	30	1623	62139	73768	1870	1446	53360	62552	1810	1387	50604	59036	1780	1268	45239	52304	1740
	38					1463	101566	117594	2110	1404	95168	109747	2060	1286	83287	95283	1980
39													1288	93716	106957	2050	
1 2 0 0	-54	1397	64299	72441	2620	1220	54015	60251	2510	1161	50764	56422	2480	1043	44507	49106	2410
	-40	1442	32784	37657	2150	1265	28213	32025	2110	1206	26730	30216	2090	1088	23824	26704	2060
	-30	1469	32820	37900	2060	1292	28323	32299	2020	1233	26864	30505	2010	1114	24002	27022	1980
	-20	1495	32716	37964	1980	1318	28310	32435	1940	1259	26880	30663	1930	1141	24074	27239	1900
	-10	1521	32463	37857	1900	1344	28167	32441	1860	1285	26771	30698	1850	1167	24032	27314	1830
	0	1546	32146	37691	1830	1369	27964	32359	1790	1310	26604	30648	1780	1192	23935	27326	1760
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	20	1593	41260	49152	1770	1416	35787	42036	1730	1357	34024	39784	1720	1239	30586	35414	1690
	30	1614	57568	68239	1840	1436	49553	57964	1780	1377	47004	54733	1760	1259	42074	48567	1720
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1 2 0 0	-54	1388	58915	66364	2560	1211	49594	55287	2470	1152	46636	51819	2440	1034	40928	45134	2380
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	-40	1433	31080	35633	2140	1256	26748	30304	2090	1197	25340	28590	2080	1078	22579	25260	2050
	-30	1459	31112	35858	2050	1282	26849	30558	2010	1223	25464	28859	1990	1105	22746	25572	1970
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	-10	1511	30781	35821	1890	1334	26707	30695	1850	1275	25382	29044	1840	1157	22780	25836	1820
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	30	1603	52990	62711	1800	1426	45699	53377	1750	1367	43371	50423	1730	1249	38858	44776	1700
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1 8 0 0	-54	1379	54223	61067	2510	1202	45721	50943	2430	1143	43013	47765	2400	1025	37776	41644	2340
	-40	1423	29497	33751	2120	1246	25384	28700	2080	1187	24046	27074	2070	1069	21419	23913	2040
	-30	1448	29523	33858	2030	1271	25477	28936	1990	1212	24161	27324	1980	1094	21576	24205	1980
	-20	1476	29432	34013	1950	1299	25468	29072	1910	1240	24177	27480	1900	1121	21642	24385	1880
	-10	1501	29217	33925	1870	1324	25348	29068	1840	1265	24089	27503	1830	1147	21613	24458	1810
	0	1526	28947	33771	1800	1349	25179	29005	1770	1290	23951	27468	1760	1172	21537	24492	1740
	10	1551	30477	35893	1750	1374	26528	30818	1720	1315	25244	29191	1710	1197	22723	26032	1690
	20	1573	36361	43101	1740	1395	31577	36921	1700	1336	30030	34951	1690	1218	27005	31119	1660
	30	1593	48976	57869	1770	1415	42301	49343	1720	1356	40163	46628	1710	1238	36009	41429	1680
	40	1612	100067	116915	2090	1435	83756	96718	1970	1376	78765	90581	1930	1258	69364	79125	1860
42					1440	105462	124228	2110	1381	98605	112939	2060	1263	85931	97645	1970	
1 6 0 0	-54	1370	50099	56342	2470	1193	42300	47073	2390	1134	39809	44149	2360	1016	34980	38506	2310
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	-20	1491	27758	32138	1860	1314	24080	27534	1830	1255	22881	26048	1820	1137	20522	23171	1800
	-10	1516	27509	32014	1790	1339	23924	27477	1760	1280	22755	26019	1750	1162	20455	23193	1730
	0	1540	28901	33929	1740	1363	25156	29132	1710	1304	23937	27593	1700	1186	21541	24602	1680
	10	1562	34231	40458	1720	1385	29739	34652	1680	1326	28284	32804	1670	1208	25435	29226	1650
	20	1582	45427	53564	1750	1405	39283	45695	1700	1346	37309	43215	1690	1228	33471	38416	1660
	30	1600	87416	102127	1990	1423	73710	85092	1900	1364	69465	79871	1860	1246	61410	70028	1810
	43					1430	101584	116594	2080	1371	95043	108667	2030	1253	82916	94073	1940
44													1255	94051	109268	2020	
1 4 0 0	-54	1361	46444	52187	2430	1184	39256	43639	2360	1125	36954	40936	2330	1007	32483	35728	2290
	-40	1403	26644	30353	2090	1226	22919	25789	2060	1167	21706	24335	2040	1049	19319	21478	2020
	-30	1430	26663	30513	2000	1253	23000	26007	1970	1194	21807	24553	1960	1076	19458	21722	1940
	-20	1456	26582	30560	1920	1279	22993	26112	1890	1220	21823	24676	1880	1102	19520	21894	1860
	-10	1481	26396	30486	1850	1304	22893	26113	1820	1245	21750	24701	1810	1127	19501	21964	1790
	0	1506	26164	30373	1780	1329	22750	26063	1750	1270	21636	24691	1740	1151	19441	21988	1720
	10	1530	27434	32121	1730	1353	23877	27578	1700	1294	22718	26119	1690	1176	20438	23295	1670
	20	1551	32277	38037	1700	1374	28049	32604	1670	1315	26677	30866	1660	1197	23988	27497	1640
	30	1571	42264	49720	1720	1394	36583	42471	1680	1335	34753	40174	1670	1217	31185	35718	1640
	40	1589	77383	90402	1920	1412	65607	75738	1840	1352	61927	71185	1810	1234	54902	62589	1760
44					1421												



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

**FLAPS - 15°  
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	1342	40259	45121	2370	1165	34078	37775	2300	1106	32089	35443	2280	988	28214	30937	2240
	-40	1385	24143	27359	2070	1208	20754	23245	2030	1149	19648	21915	2020	1031	17470	19335	2000
	-30	1411	24156	27494	1980	1234	20824	23421	1950	1175	19737	22117	1940	1056	17594	19549	1920
	-20	1436	24083	27548	1900	1259	20819	23527	1870	1200	19753	22226	1860	1082	17652	19704	1840
	-10	1461	23922	27484	1830	1283	20735	23530	1800	1224	19693	22251	1790	1106	17640	19769	1770
	0	1485	23722	27373	1760	1308	20613	23490	1730	1249	19597	22233	1720	1130	17593	19795	1710
	10	1509	24785	28838	1700	1331	21563	24751	1680	1272	20510	23451	1670	1154	18438	20888	1650
	20	1530	28819	33741	1680	1353	25048	28945	1650	1294	23821	27401	1640	1175	21412	24402	1620
	30	1549	36868	43154	1680	1372	31952	36922	1650	1313	30363	34933	1630	1195	27254	31064	1610
	40	1566	62244	72597	1810	1389	53174	61241	1750	1330	50303	57694	1730	1212	44773	50918	1690
47					1404	99685	113749	2040	1344	93201	105945	1990	1226	81174	91572	1910	
1050	-54	1319	34107	38242	2300	1141	28894	32038	2250	1082	27218	30065	2230	964	23914	26216	2200
	-40	1361	21419	24246	2040	1184	18391	20571	2010	1125	17401	19392	2000	1007	15448	17080	1980
	-30	1385	21426	24374	1960	1208	18450	20734	1930	1149	17476	19556	1920	1031	15556	17267	1900
	-20	1410	21363	24409	1880	1233	18447	20817	1850	1174	17492	19653	1840	1056	15609	17394	1830
	-10	1434	21227	24359	1800	1257	18378	20826	1780	1198	17445	19693	1770	1080	15604	17458	1760
	0	1458	21059	24270	1740	1281	18284	20804	1710	1222	17368	19686	1710	1104	15570	17500	1690
	10	1481	21919	25470	1680	1304	19052	21849	1660	1245	18114	20677	1650	1127	16263	18403	1640
	20	1502	25171	29443	1650	1325	21870	25227	1620	1266	20793	23872	1620	1148	18674	21250	1600
	30	1521	31442	36790	1640	1344	27268	31482	1610	1285	25913	29783	1600	1167	23255	26485	1580
	40	1538	49290	57595	1720	1361	42337	48838	1670	1302	40113	46062	1650	1183	35795	40748	1620
50	1556	112484	132451	2110	1379	92714	105835	1970	1320	86756	98636	1930	1202	75646	85351	1850	
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	-40	1348	18908	21330	2020	1171	16238	18101	1990	1112	15363	17064	1980	994	13635	15016	1960
	-30	1373	18915	21431	1930	1196	16290	18234	1910	1137	15429	17208	1900	1018	13727	15188	1880
	-20	1397	18858	21455	1850	1220	16286	18313	1830	1161	15443	17289	1820	1043	13776	15299	1810
	-10	1422	18733	21393	1780	1245	16223	18308	1760	1186	15400	17302	1750	1068	13772	15347	1740
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	20	1473	22104	25889	1630	1296	19189	22165	1600	1237	18236	20962	1600	1119	16357	18630	1580
	30	1492	27076	31762	1610	1315	23479	27160	1580	1256	22307	25699	1570	1138	20004	22826	1560
	40	1509	40165	47118	1650	1332	34597	40045	1610	1273	32803	37803	1600	1155	29303	33454	1570
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	-40	1346	16691	18522	1990	1168	14350	15877	1970	1109	13581	14949	1960	991	12061	13223	1950
	-30	1370	16693	18668	1910	1193	14392	15948	1890	1134	13636	15128	1880	1016	12141	13417	1870
	-20	1394	16644	18652	1830	1217	14390	15974	1810	1158	13649	15170	1810	1040	12183	13466	1790
	-10	1419	16542	18592	1760	1242	14340	15953	1740	1183	13617	15166	1740	1065	12185	13515	1730
	0	1444	16416	18490	1700	1267	14269	16019	1680	1208	13563	15142	1670	1090	12166	13523	1660
	10	1468	16970	19192	1640	1291	14777	16550	1620	1232	14537	15762	1620	1114	12631	14105	1610
	20	1463	19290	22220	1600	1286	16759	19056	1580	1226	15930	18043	1580	1108	14291	16050	1560
	30	1462	23483	27331	1580	1285	20349	23370	1560	1226	19325	22090	1550	1108	17308	19610	1540
	40	1478	33374	38918	1600	1301	28783	33126	1570	1242	27296	31275	1560	1124	24383	27672	1540
50	1493	56946	66210	1720	1316	48433	55584	1660	1257	45732	52260	1640	1139	40519	45900	1600	
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	-30	1367	14804	16563	1890	1190	12775	14239	1870	1131	12107	13512	1870	1013	10785	11981	1860
	-20	1392	14762	16666	1820	1214	12774	14264	1800	1155	12119	13551	1790	1037	10823	12044	1780
	-10	1416	14676	16611	1750	1239	12734	14252	1730	1180	12094	13553	1730	1062	10827	12074	1710
	0	1441	14572	16539	1680	1264	12676	14331	1670	1205	12052	13539	1660	1087	10815	12087	1650
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	20	1460	16883	19086	1580	1283	14688	16555	1570	1223	13966	15657	1560	1105	12538	13999	1550
	30	1435	20425	23534	1560	1258	17684	20113	1540	1199	16786	19005	1530	1081	15015	16855	1520
	40	1446	28127	32566	1560	1269	24259	27717	1540	1210	23004	26165	1530	1092	20530	23142	1510
50	1461	44381	51374	1630	1284	37928	43340	1580	1225	35858	40810	1570	1107	31836	35917	1540	
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	-40	1340	13177	14859	1960	1163	11347	12730	1940	1104	10744	12034	1940	985	9548	10664	1920
	-30	1364	13175	14909	1880	1187	11376	12806	1860	1128	10784	12119	1860	1010	9609	10765	1850
	-20	1388	13138	14915	1800	1211	11376	12845	1790	1152	10795	12168	1780	1034	9643	10836	1770
	-10	1413	13066	14875	1730	1236	11344	12844	1720	1177	10776	12180	1710	1059	9650	10872	1700
	0	1438	12979	14915	1670	1261	11297	12825	1660	1202	10743	12175	1650	1084	9643	10893	1640
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	20	1455	14865	16961	1570	1278	12942	14604	1550	1219	12310	13908	1550	1101	11056	12432	1540
	30	1430	17651	20011	1540	1253	15302	17141	1520	1194	14531	16284	1510	1076	13007	14523	1500
	40	1413	23														



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

**FLAPS - 15°  
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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	-30	1501	34088	39671	2060	1324	29495	33889	2020	1265	28005	32038	2000	1147	25084	28446	1980
	-20	1528	33981	39750	1980	1351	29481	34040	1940	1292	28021	32229	1920	1174	25156	28679	1900
	-10	1554	33790	39767	1900	1377	29389	34133	1860	1318	27960	32328	1850	1200	25157	28824	1830
	0	1580	34065	40490	1830	1403	29670	34778	1800	1344	28245	32952	1780	1226	25451	29411	1760
	10	1604	39568	47365	1810	1427	34403	40593	1770	1368	32734	38421	1760	1250	29477	34272	1730
	20	1627	51585	61860	1840	1450	44584	52695	1790	1391	42348	49833	1770	1273	38013	44287	1740
	30	1648	76508	90943	1970	1471	65290	76630	1880	1412	61775	72177	1860	1293	55052	63758	1810
	35																
36					1483	104318	121392	2140	1424	97727	113251	2090	1306	85535	98267	2000	
													1308	96419	113220	2070	
1 2 0 0 0	-54	1421	52625	59840	2480	1244	44655	50230	2400	1185	42111	47178	2370	1067	37179	41352	2320
	-40	1465	32453	37489	2130	1288	28006	31962	2090	1229	26563	30185	2080	1111	23731	26736	2050
	-30	1493	32510	37764	2050	1316	28131	32261	2000	1256	26709	30497	1990	1138	23920	27089	1970
	-20	1519	32409	37837	1960	1342	28119	32421	1920	1283	26725	30678	1910	1165	23990	27294	1890
	-10	1546	32229	37854	1890	1369	28034	32492	1850	1310	26670	30773	1840	1191	23993	27433	1820
	0	1572	32471	38509	1820	1394	28287	33081	1780	1335	26928	31344	1770	1217	24262	27973	1750
	10	1596	37497	44773	1790	1418	32617	38386	1760	1359	31039	36358	1740	1241	27955	32435	1720
	20	1618	48283	57780	1820	1441	41786	49301	1770	1382	39705	46638	1750	1263	35663	41468	1720
	30	1639	69852	82988	1920	1461	59792	70138	1840	1402	56647	66135	1820	1284	50572	58535	1770
	36					1476	102538	119083	2120	1417	96081	111121	2070	1298	84118	96450	1980
37													1300	94769	108508	2050	
1 2 0 0 0	-54	1412	48828	55456	2440	1235	41481	46593	2360	1176	39129	43792	2340	1058	34562	38379	2290
	-40	1456	30780	35466	2120	1279	26562	30237	2080	1220	25191	28554	2060	1102	22500	25285	2040
	-30	1483	30829	35717	2030	1306	26677	30513	1990	1247	25327	28843	1980	1129	22676	25614	1950
	-20	1510	30734	35785	1950	1333	26666	30663	1910	1273	25343	29013	1900	1155	22743	25807	1880
	-10	1536	30567	35801	1870	1359	26588	30730	1840	1300	25293	29102	1830	1182	22749	25938	1800
	0	1561	30776	36386	1800	1384	26813	31261	1770	1325	25524	29619	1760	1207	22993	26430	1740
	10	1585	35322	42033	1780	1408	30738	36072	1740	1349	29254	34169	1730	1231	26348	30484	1710
	20	1607	44907	53581	1790	1430	38912	45792	1740	1371	36987	43307	1730	1253	33239	38567	1700
	30	1628	63386	75200	1870	1451	54442	63738	1800	1392	51608	60157	1780	1274	46148	53315	1740
	37	1643	119357	149415	2230	1466	98807	114520	2080	1407	92650	106932	2040	1289	81204	92951	1950
38									1409	104802	126984	2120	1291	91236	104207	2020	
1 8 0 0	-54	1403	45440	51556	2410	1226	38639	43347	2340	1167	36456	40748	2310	1049	32210	35734	2270
	-50	1417	35021	39974	2260	1240	30016	33874	2210	1181	28396	31917	2190	1063	25225	28123	2160
	-40	1446	29223	33601	2100	1269	25216	28645	2060	1210	23912	27048	2050	1092	21351	23957	2030
	-30	1473	29266	33833	2020	1296	25322	28900	1980	1237	24039	27332	1970	1119	21516	24250	1940
	-20	1500	29176	33895	1930	1323	25312	29041	1900	1264	24054	27476	1890	1145	21581	24432	1870
	-10	1526	29020	33911	1860	1349	25241	29104	1830	1290	24010	27561	1820	1171	21589	24572	1790
	0	1551	29203	34436	1790	1374	25442	29586	1760	1315	24217	28030	1750	1197	21811	25023	1730
	10	1575	33328	39566	1760	1398	29012	33965	1730	1339	27612	32174	1720	1220	24888	28703	1690
	20	1597	41889	49875	1770	1419	36332	42660	1720	1360	34543	40354	1710	1242	31054	35947	1680
	30	1617	57873	68590	1830	1440	49828	58281	1770	1381	47269	55039	1750	1263	42319	48827	1710
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	-30	1464	27808	32056	2000	1286	24057	27394	1970	1227	22835	25890	1960	1109	20432	22964	1930
	-20	1490	27724	32113	1920	1313	24049	27510	1890	1254	22851	26025	1880	1135	20494	23149	1860
	-10	1515	27578	32127	1850	1338	23983	27570	1820	1279	22811	26105	1810	1161	20504	23268	1790
	0	1541	27737	32598	1780	1364	24163	28007	1750	1305	22998	26532	1740	1186	20707	23680	1720
	10	1564	31491	37246	1750	1387	27418	31979	1710	1328	26095	30293	1700	1210	23500	27023	1680
	20	1586	39172	46500	1750	1409	34001	39801	1710	1350	32333	37676	1690	1232	29084	33560	1670
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41													1275	96018	113675	2040	
1 4 0 0	-54	1384	39655	44864	2350	1207	33762	37776	2280	1148	31862	35499	2270	1030	28157	31133	2230
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	-30	1454	26446	30413	1990	1277	22874	25984	1960	1217	21709	24555	1940	1099	19416	21784	1920
	-20	1480	26366	30465	1910	1303	22866	26093	1880	1243	21724	24681	1870	1125	19476	21945	1850
	-10	1505	26230	30478	1830	1328	22806	26150	1810	1269	21688	24772	1800	1151	19487	22058	1780
	0	1530	26368	30903	1770	1353	22967	26547	1740	1294	21858	25162	1730	1176	19674	22436	1710
	10	1553	29795	35146	1730	1376	25943	30179	1700	1317	24691	28587	1690	1199	22231	25496	1670
	20	1575	36714	43469	1730	1398	31866	37225	1690	1339	30325	35241	1680	1221	27273	31403	1650
	30	1595	48958	57806	1760	1418	42299	49285	1710	1359	40166	46580	1690	1241	36021	41399	1660
	40	1615	106168	123944	2120	1438	88485	102061	1990	1379	83111	95486	1950				



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

**FLAPS - 15°  
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 0	-54	1365	34897	39336	2300	1188	29729	33136	2240	1129	28058	31154	2230	1011	24789	27314	2190
	-40	1407	23948	27260	2050	1230	20643	23218	2020	1171	19563	21911	2010	1053	17436	19375	1990
	-30	1434	23972	27412	1970	1256	20721	23408	1940	1197	19659	22126	1930	1079	17566	19600	1910
	-20	1459	23900	27470	1890	1282	20713	23515	1860	1223	19673	22237	1850	1105	17621	19755	1830
	-10	1484	23781	27465	1810	1307	20663	23566	1790	1248	19644	22304	1780	1130	17635	19857	1760
	0	1509	23887	27812	1750	1332	20795	23897	1720	1273	19785	22631	1710	1155	17793	20178	1700
	10	1532	26761	31367	1710	1355	23299	26933	1680	1296	22170	25509	1670	1178	19950	22754	1650
	20	1553	32434	38176	1690	1376	28189	32713	1660	1317	26811	30972	1650	1199	24112	27597	1630
	30	1573	42048	49429	1710	1396	36408	42241	1670	1337	34592	39941	1650	1219	31049	35542	1630
	40	1590	80329	93764	1930	1413	67975	78397	1840	1354	64126	73651	1810	1236	56792	64672	1760
44					1423	102242	117085	2060	1364	95600	109065	2010	1245	83300	94278	1930	
1 0 5 0 0	-54	1341	30019	33666	2250	1164	25574	28373	2200	1105	24132	26671	2190	987	21303	23364	2160
	-40	1408	21276	24169	1940	1231	18369	20619	1910	1172	17417	19468	1900	1053	15540	17233	1890
	-30	1433	21213	24202	1860	1256	18364	20699	1840	1197	17432	19576	1830	1079	15591	17357	1810
	-20	1457	21110	24195	1790	1280	18326	20745	1770	1221	17409	19634	1760	1103	15607	17458	1740
	-10	1481	21187	24467	1730	1304	18426	21006	1700	1245	17522	19885	1690	1127	15738	17709	1680
	0	1504	23520	27330	1680	1327	20465	23471	1660	1268	19466	22224	1650	1150	17499	19806	1630
	10	1525	28020	32708	1660	1348	24356	28049	1630	1289	23164	26554	1620	1170	20820	23664	1600
	20	1544	35316	41249	1660	1367	30624	35294	1620	1308	29105	33398	1610	1190	26131	29724	1590
	30	1561	60464	70390	1790	1384	51681	59436	1720	1325	48898	56002	1700	1207	43530	49434	1660
	47	1575	114636	136098	2130	1398	94536	107803	1990	1339	88489	100548	1940	1221	77224	87059	1870
48					1400	106920	133735	2070	1341	99734	115121	2020	1223	86497	97327	1920	
1 0 0 0 0	-54	1316	26026	29318	2200	1139	22159	24676	2160	1080	20901	23180	2150	962	18426	20270	2130
	-40	1371	18764	21172	2000	1194	16160	18019	1980	1135	15306	17007	1970	1017	13619	15016	1950
	-30	1396	18779	21283	1920	1219	16217	18172	1890	1160	15374	17154	1890	1042	13717	15184	1870
	-20	1421	18722	21307	1840	1244	16213	18238	1820	1185	15389	17237	1810	1067	13762	15291	1800
	-10	1446	18628	21300	1770	1269	16173	18265	1750	1210	15368	17280	1740	1092	13776	15363	1730
	0	1470	18680	21500	1700	1293	16253	18467	1680	1234	15455	17493	1680	1116	13883	15581	1660
	10	1478	20732	24171	1660	1301	18024	20730	1640	1242	17138	19629	1630	1123	15388	17455	1620
	20	1496	24384	28592	1630	1319	21185	24505	1610	1259	20136	23180	1600	1141	18085	20631	1580
	30	1515	30048	35284	1620	1338	26067	30194	1590	1278	24773	28563	1580	1160	22233	25396	1560
	40	1531	47639	55880	1690	1354	40932	47384	1650	1295	38784	44689	1630	1177	34624	39539	1600
48	1545	85167	99074	1920	1367	71471	82157	1820	1308	67230	76975	1790	1190	59184	67177	1730	
9 5 0 0 0	-54	1290	22698	25502	2170	1113	19302	21435	2140	1054	18194	20122	2120	936	16012	17573	2100
	-40	1368	16573	18435	1980	1191	14288	15844	1960	1132	13538	15030	1950	1014	12053	13330	1940
	-30	1393	16582	18590	1900	1216	14335	15919	1880	1157	13597	15118	1870	1039	12136	13439	1860
	-20	1418	16533	18574	1820	1241	14332	15945	1800	1182	13609	15158	1790	1064	12177	13506	1780
	-10	1443	16454	18528	1750	1266	14301	16051	1730	1207	13593	15172	1730	1089	12192	13549	1710
	0	1467	16492	18716	1690	1290	14365	16141	1670	1231	13665	15375	1660	1113	12282	13759	1650
	10	1474	18130	20794	1640	1297	15784	17888	1620	1238	15014	16939	1610	1120	13491	15096	1600
	20	1466	21334	24913	1610	1289	18516	21328	1590	1230	17594	20168	1580	1111	15776	17921	1570
	30	1484	25815	30192	1590	1307	22382	25831	1560	1248	21265	24427	1550	1130	19072	21700	1540
	40	1500	38646	45260	1630	1323	33293	38471	1590	1264	31566	36297	1580	1146	28195	32135	1550
48	1513	61670	71919	1750	1336	52398	60333	1690	1277	49466	56719	1660	1159	43824	49798	1630	
9 0 0 0 0	-54	1269	19807	22063	2140	1092	16829	18535	2110	1033	15855	17403	2100	915	13933	15181	2080
	-40	1366	14707	16466	1960	1189	12691	14155	1940	1129	12027	13433	1930	1011	10714	11912	1920
	-30	1390	14712	16616	1880	1213	12730	14221	1860	1154	12077	13509	1860	1036	10785	12006	1840
	-20	1415	14670	16605	1800	1238	12728	14246	1790	1179	12088	13547	1780	1061	10821	12068	1770
	-10	1440	14604	16570	1730	1263	12703	14357	1720	1204	12077	13563	1710	1086	10837	12109	1700
	0	1464	14631	16624	1670	1287	12755	14434	1660	1228	12137	13753	1650	1110	10913	12305	1640
	10	1471	15958	18189	1620	1294	13908	15690	1610	1235	13233	14949	1600	1117	11898	13382	1590
	20	1461	18492	21154	1590	1284	16072	18157	1570	1225	15278	17184	1560	1107	13709	15294	1550
	30	1453	22329	25913	1560	1276	19344	22154	1540	1217	18368	20938	1530	1099	16444	18570	1520
	40	1468	31992	37202	1580	1291	27586	31660	1550	1232	26158	29887	1540	1114	23363	26456	1520
48	1480	47339	55003	1650	1303	40461	46413	1600	1244	38260	43690	1590	1126	33989	38477	1560	
8 5 0 0 0	-54	1265	17195	19027	2110	1088	14627	16056	2090	1028	13785	15061	2080	910	12121	13198	2060
	-40	1363	13096	14803	1950	1185	11307	12716	1930	1126	10718	12034	1920	1008	9550	10691	1910
	-30	1387	13098	14859	1860	1210	11340	12797	1850	1151	10761	12123	1840	1033	9612	10795	1830
	-20	1412	13062	14867	1790	1235	11339	12836	1770	1176	10771	12173	1770	1058	9645	10865	1760
	-10	1437	13005	14848	1720	1260	11319	12852	1710	1201	10764	12200	1700	1083	9661	10914	1690
	0	1461	13025	14933	1660	1284	11362	12951	1640	1225	10814	12303	1640	1107	9726	11028	1630
	10	1467	14114	16113	1610	1290	12310	13995	1590	1231	11716	13231	1590	1113	10538	11933	1580
	20	1456	16143	18350	1570	1279	14046	15807	1550	1220	13356	15050	1550	1102	11992	13455	1540
	30	1434	19254	22089	1540	1257	16682	18895	1520	1198	15838	17871	1510	1080	14173	15859	



**SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES  
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ANTI-ICE SYSTEMS OFF**

**FLAPS - 15°  
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	1454	47140	54138	2410	1277	40284	45725	2340	1218	38084	43062	2310	1100	33805	37909	2270
	-50	1468	36374	42070	2250	1291	31329	35788	2200	1232	29696	33780	2190	1114	26500	29890	2150
	-40	1498	33657	39194	2130	1320	29127	33484	2090	1261	27651	31649	2070	1143	24765	28097	2040
	-30	1526	33731	39482	2040	1348	29265	33809	2000	1289	27815	31992	1990	1171	24971	28482	1960
	-20	1553	33622	39583	1960	1376	29247	33980	1920	1317	27827	32184	1910	1199	25038	28698	1880
	-10	1580	33881	40120	1890	1403	29537	34506	1850	1344	28125	32708	1840	1226	25356	29234	1810
	0	1606	36138	43270	1840	1429	31506	37179	1800	1370	30006	35241	1790	1252	27067	31488	1760
	10	1630	45520	54811	1840	1452	39507	46900	1800	1393	37576	44378	1780	1275	33818	39545	1750
	20	1652	61860	74476	1910	1475	53222	63164	1840	1416	50487	59636	1820	1298	45219	52903	1780
	30	1675	105690	126370	2170	1498	88344	104183	2040	1439	83093	97561	2000	1321	73269	85207	1930
32					1503	110697	139096	2190	1444	103446	122554	2140	1326	90173	104465	2040	
1 2 0 0 0	-54	1446	44412	50938	2380	1269	37980	43066	2310	1210	35911	40543	2290	1092	31883	35712	2250
	-40	1489	32116	37327	2110	1312	27790	31885	2070	1253	26385	30141	2060	1135	23627	26753	2030
	-30	1517	32182	37594	2030	1340	27922	32193	1990	1281	26538	30479	1980	1163	23821	27115	1950
	-20	1544	32079	37670	1950	1367	27907	32355	1910	1308	26550	30644	1900	1190	23886	27320	1870
	-10	1571	32314	38184	1870	1394	28173	32842	1840	1335	26826	31147	1830	1217	24182	27819	1800
	0	1597	34375	41045	1820	1420	29977	35295	1790	1361	28550	33457	1770	1243	25754	29893	1750
	10	1621	42871	51508	1820	1443	37240	44108	1780	1384	35429	41744	1760	1266	31897	37231	1740
	20	1643	57279	68838	1870	1466	49390	58524	1810	1407	46883	55286	1790	1289	42038	49091	1750
	30	1665	93502	111729	2080	1488	78807	92863	1970	1429	74299	87139	1930	1311	65788	76449	1870
	33					1496	108149	131004	2160	1437	101135	117946	2110	1318	88253	102012	2020
34													1321	99812	123601	2100	
1 2 0 0 0	-54	1437	41580	47641	2350	1259	35579	40278	2290	1200	33646	37940	2270	1082	29875	33421	2230
	-40	1480	30473	35343	2100	1303	26368	30189	2060	1244	25033	28535	2050	1125	22411	25336	2020
	-30	1507	30531	35589	2010	1330	26489	30475	1980	1271	25174	28850	1960	1153	22591	25659	1940
	-20	1534	30434	35659	1930	1357	26475	30626	1900	1298	25186	29005	1880	1180	22654	25852	1860
	-10	1561	30645	36129	1860	1384	26718	31074	1830	1325	25439	29469	1810	1207	22927	26314	1790
	0	1587	32508	38723	1810	1410	28354	33304	1770	1351	27005	31569	1760	1233	24358	28203	1740
	10	1610	40125	48094	1800	1433	34884	41214	1760	1374	33193	39034	1750	1256	29893	34802	1720
	20	1632	52703	63209	1840	1455	45537	53860	1780	1396	43251	50906	1760	1278	38821	45264	1730
	30	1653	82485	98486	2000	1476	70002	82418	1900	1417	66128	77505	1870	1299	58761	68235	1820
	34					1486	103485	120927	2120	1427	96894	112759	2070	1309	84723	97705	1990
35													1311	95440	110645	2060	
1 1 8 0 0	-54	1427	39009	44597	2320	1250	33395	37736	2260	1191	31583	35548	2250	1073	28044	31314	2210
	-50	1441	31039	35665	2200	1264	26741	30360	2160	1205	25345	28653	2140	1087	22604	25338	2110
	-40	1470	28944	33475	2080	1293	25042	28591	2050	1234	23772	27022	2030	1116	21275	23986	2010
	-30	1497	28994	33700	2000	1320	25154	28872	1960	1261	23903	27315	1950	1143	21444	24287	1930
	-20	1524	28903	33764	1920	1347	25141	28997	1880	1288	23915	27459	1870	1170	21504	24483	1850
	-10	1551	29093	34193	1850	1374	25362	29425	1810	1315	24147	27887	1800	1197	21756	24895	1780
	0	1577	30782	36549	1790	1399	26851	31438	1760	1340	25573	29800	1750	1222	23063	26620	1730
	10	1599	37639	44967	1780	1422	32743	38556	1740	1363	31161	36521	1730	1245	28067	32586	1710
	20	1621	48699	58254	1810	1444	42147	49710	1760	1385	40049	47001	1740	1267	35975	41820	1710
	30	1642	73538	87653	1930	1465	62735	73753	1850	1406	59353	69448	1820	1288	52884	61314	1780
35	1654	119929	151283	2230	1476	99115	115523	2080	1417	92902	107826	2040	1299	81376	93619	1950	
1 1 6 0 0	-54	1418	36666	41859	2300	1241	31399	35428	2240	1182	29697	33356	2230	1063	26367	29379	2190
	-50	1432	29440	33756	2180	1255	25361	28732	2140	1195	24034	27114	2130	1077	21429	23983	2100
	-40	1460	27516	31750	2070	1283	23803	27112	2030	1224	22593	25637	2020	1106	20213	22735	2000
	-30	1488	27560	31957	1990	1310	23906	27374	1950	1251	22714	25895	1940	1133	20371	23016	1920
	-20	1514	27474	32015	1910	1337	23894	27491	1870	1278	22726	26030	1860	1160	20428	23201	1840
	-10	1540	27645	32409	1830	1363	24097	27886	1800	1304	22940	26425	1790	1186	20662	23583	1770
	0	1566	29181	34535	1780	1389	25455	29724	1750	1330	24242	28174	1740	1212	21858	25161	1720
	10	1589	35376	42145	1760	1411	30790	36172	1730	1352	29304	34245	1720	1234	26397	30556	1690
	20	1610	45162	53898	1780	1433	39137	46068	1730	1374	37202	43571	1720	1256	33437	38786	1690
	30	1631	66151	78756	1870	1454	56660	66528	1800	1395	53668	62737	1780	1277	47919	55487	1740
37					1470	107288	128475	2130	1411	100317	115872	2080	1293	87476	100222	1990	
1 1 4 0 0	-54	1408	34521	39308	2280	1231	29569	33274	2230	1172	27965	31344	2210	1054	24826	27616	2180
	-50	1422	27950	31976	2170	1245	24074	27199	2130	1186	22812	25665	2120	1068	20331	22693	2090
	-40	1450	26180	30117	2060	1273	22642	25728	2020	1214	21488	24311	2010	1096	19216	21551	1990
	-30	1477	26219	30307	1970	1300	22737	25956	1940	1241	21601	24550	1930	1123	19364	21827	1910
	-20	1504	26137	30377	1890	1327	22726	26065	1860	1268	21613	24692	1850	1150	19420	21987	1830
	-10	1530	26292	30721	1820	1353	22913	26429	1790	1294	21810	25042	1780	1176	19637	22355	1770
	0	1555	27692	32659	1770	1378	24155	28108	1740	1319	23002	26641	1730	1201	20734	23787	1710
	10	1578	33308	39534	1750	1401	28999	33943	1710	1342	27601	32155	1700	1223	24863	28691	1680
	20	1599	42014	50002	1750	1422	36447	42754	1710	1363	34654	40468	1700	1245	31159	36036	1670
	30	1620	59963	71207	1830	1443	51519	60371	1770	1384	48843	56975	1750				



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

**FLAPS - 15°  
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
1000	-54	1389	30735	34869	2240	1212	26327	29516	2190	1153	24896	27814	2180	1035	22089	24479	2150
	-40	1430	23751	27182	2030	1253	20528	23207	2000	1194	19474	21934	1990	1076	17398	19426	1970
	-30	1457	23781	27359	1950	1280	20609	23418	1920	1221	19572	22142	1910	1103	17529	19668	1890
	-20	1483	23707	27403	1870	1306	20600	23513	1840	1247	19584	22254	1840	1129	17581	19811	1820
	-10	1509	23834	27692	1800	1331	20758	23810	1770	1272	19752	22568	1770	1154	17769	20117	1750
	0	1534	25006	29316	1740	1356	21804	25224	1720	1297	20758	23901	1710	1179	18698	21341	1690
	10	1556	29661	34997	1720	1379	25832	30073	1690	1319	24586	28489	1680	1201	22140	25412	1660
	20	1577	36649	43373	1710	1400	31837	37172	1680	1341	30281	35174	1660	1223	27237	31348	1640
	30	1597	50150	59334	1760	1420	43275	50515	1710	1361	41076	47722	1690	1243	36811	42382	1660
	40	1617	113056	131855	2150	1439	93761	108085	2010	1380	87939	100953	1970	1262	77069	87747	1890
41					1442	105595	124109	2090	1383	98722	113094	2040	1265	86025	97776	1950	
1050	-54	1364	26760	30191	2200	1187	22912	25545	2160	1128	21659	24065	2140	1010	19196	21157	2120
	-40	1405	21100	23987	2010	1228	18214	20459	1980	1168	17269	19316	1970	1050	15405	17094	1950
	-30	1431	21120	24118	1930	1253	18282	20623	1900	1194	17352	19490	1890	1076	15515	17286	1870
	-20	1456	21055	24152	1850	1279	18274	20703	1820	1220	17364	19597	1820	1102	15565	17413	1800
	-10	1481	21155	24400	1780	1304	18404	20961	1750	1245	17503	19846	1750	1127	15725	17681	1730
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	10	1527	25836	30226	1690	1350	22495	25972	1660	1291	21406	24599	1650	1173	19261	21942	1640
	20	1548	31259	36711	1670	1371	27176	31486	1640	1312	25850	29813	1630	1194	23248	26567	1610
	30	1568	41101	48326	1690	1391	35576	41276	1650	1332	33797	39021	1640	1214	30326	34709	1610
	40	1585	78158	91187	1900	1408	66184	76252	1810	1349	62449	71647	1790	1231	55322	62955	1740
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	-40	1394	18625	20861	1980	1217	16084	17815	1960	1158	15250	16859	1950	1040	13603	14987	1940
	-30	1421	18643	20968	1900	1244	16143	17964	1880	1185	15323	16982	1870	1066	13702	15114	1860
	-20	1445	18584	20982	1830	1268	16136	18021	1800	1209	15332	17053	1800	1091	13743	15184	1780
	-10	1471	18655	21160	1760	1294	16237	18203	1740	1234	15444	17254	1730	1116	13874	15441	1720
	0	1494	19429	22208	1700	1316	16933	19122	1680	1257	16117	18134	1670	1139	14501	16187	1660
	10	1498	22636	26239	1660	1321	19694	22535	1640	1262	18732	21336	1630	1144	16836	19014	1620
	20	1519	26924	31341	1640	1341	23406	26883	1610	1282	22259	25451	1600	1164	20006	22666	1590
	30	1538	34333	40056	1640	1361	29762	34258	1610	1302	28282	32413	1600	1184	25384	28837	1570
	40	1555	58455	67945	1760	1377	49990	57373	1700	1318	47304	54063	1680	1200	42128	47739	1640
46	1566	95762	110567	1990	1389	79960	91271	1880	1330	75115	85396	1840	1212	65971	74411	1780	
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	-40	1391	16458	18467	1960	1214	14228	15812	1940	1155	13495	15016	1940	1037	12044	13347	1920
	-30	1417	16470	18511	1880	1240	14276	15989	1860	1180	13555	15105	1860	1062	12128	13458	1840
	-20	1442	16420	18494	1810	1265	14271	16021	1790	1208	13564	15143	1780	1088	12166	13523	1770
	-10	1468	16477	18630	1740	1291	14356	16136	1720	1232	13658	15266	1710	1113	12277	13661	1700
	0	1491	17101	19483	1680	1313	14923	16835	1660	1254	14208	15941	1660	1136	12792	14291	1640
	10	1482	19765	22989	1640	1305	17201	19740	1620	1246	16361	18686	1610	1128	14701	16643	1600
	20	1488	23357	27450	1610	1311	20291	23519	1590	1252	19289	22249	1580	1134	17316	19778	1570
	30	1507	29070	34263	1600	1330	25209	29298	1570	1271	23954	27707	1560	1153	21488	24619	1540
	40	1523	45833	53891	1670	1346	39391	45696	1620	1287	37326	43095	1610	1169	33310	38109	1580
46	1533	67318	78776	1790	1356	57104	65974	1720	1297	53890	62007	1690	1179	47724	54428	1650	
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	-40	1389	14612	16399	1950	1211	12642	14133	1930	1152	11993	13426	1920	1034	10709	11931	1910
	-30	1414	14619	16554	1870	1237	12682	14201	1850	1178	12045	13504	1840	1059	10781	12028	1830
	-20	1439	14576	16542	1790	1262	12678	14333	1770	1203	12054	13540	1770	1085	10815	12088	1760
	-10	1465	14622	16619	1720	1288	12750	14433	1710	1229	12134	13847	1700	1110	10912	12307	1690
	0	1487	15134	17274	1660	1310	13219	15032	1650	1251	12588	14226	1640	1133	11339	12752	1630
	10	1478	17259	19617	1620	1301	15038	16930	1600	1242	14309	16129	1600	1124	12866	14446	1590
	20	1464	20279	23513	1590	1287	17610	20148	1570	1228	16736	19072	1560	1110	15011	16944	1550
	30	1474	24864	29033	1570	1297	21551	24830	1550	1238	20470	23473	1540	1120	18341	20834	1520
	40	1490	37039	43267	1610	1313	31906	36774	1570	1254	30249	34712	1560	1136	27010	30706	1530
46	1500	50754	59173	1670	1323	43374	49907	1620	1264	41019	47010	1600	1145	36455	41402	1570	
850	-54	1304	15728	17515	2080	1127	13461	14850	2060	1068	12716	14045	2050	950	11243	12369	2040
	-40	1385	13015	14753	1930	1208	11268	12706	1910	1149	10692	12037	1910	1031	9550	10719	1900
	-30	1411	13020	14812	1850	1233	11302	12789	1830	1174	10735	12128	1830	1056	9612	10825	1820
	-20	1436	12982	14819	1780	1259	11299	12827	1760	1200	10744	12176	1760	1082	9643	10893	1750
	-10	1461	13020	14906	1710	1284	11360	12933	1690	1225	10813	12288	1690	1107	9727	11017	1680
	0	1484	13445	15452	1650	1307	11752	13424	1640	1248	11194	12762	1630	1130	10087	11458	1620
	10	1474	15163	17283	1600	1297	13225	15018	1590	1238	12587	14207	1580	1120	11324	12719	1570
	20	1459	17538	19959	1570	1282	15250	17221	1550	1223	14498	16290	1540	1105	13013	14566	1530
	30	1440	21423	24883	1540	1263	18544	21250	1520	1204	17602	20089	1520	1086	15745	17798	1500
	40																



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

**FLAPS - 15°  
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
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	-50	1493	33074	38546	2200	1316	28615	32933	2160	1257	27167	31129	2150	1139	24327	27628	2120
	-40	1524	33339	39071	2110	1347	28922	33449	2070	1287	27488	31648	2060	1169	24674	28153	2030
	-30	1551	33380	39324	2020	1374	29036	33769	1980	1315	27625	31983	1970	1197	24855	28515	1950
	-20	1579	33420	39665	1940	1402	29136	34109	1910	1343	27744	32329	1890	1225	25013	28892	1870
	-10	1606	34679	41522	1880	1429	30277	35740	1840	1370	28845	33888	1830	1252	26039	30298	1810
	0	1632	40342	48728	1860	1455	35140	41822	1810	1395	33462	39634	1800	1277	30184	35386	1770
	10	1655	54021	85359	1900	1478	46732	55715	1840	1419	44408	52680	1820	1301	39908	46889	1790
	20	1678	77103	93233	2010	1501	65778	78422	1920	1442	62247	73852	1900	1324	55510	65208	1840
	28					1521	109436	134693	2190	1462	102298	120656	2140	1344	89247	104259	2040
29													1347	100141	123457	2120	
1 2 2 0 0	-54	1471	38413	44440	2300	1294	33054	37771	2250	1235	31322	35643	2230	1117	27936	31523	2190
	-50	1485	31579	36729	2190	1308	27322	31381	2150	1249	25939	29660	2130	1131	23223	26319	2110
	-40	1514	31821	37216	2100	1337	27607	31862	2060	1278	26237	30145	2040	1160	23547	26827	2020
	-30	1542	31859	37452	2010	1365	27714	32163	1970	1306	26366	30460	1960	1188	23719	27153	1940
	-20	1570	31890	37766	1930	1393	27804	32477	1890	1334	26476	30782	1880	1216	23866	27505	1860
	-10	1597	33052	39480	1870	1420	28853	33979	1830	1361	27489	32219	1820	1243	24813	28803	1800
	0	1623	38203	46020	1840	1445	33294	39540	1800	1386	31708	37453	1790	1268	28607	33463	1760
	10	1646	50429	60888	1870	1469	43692	52000	1820	1410	41537	49185	1800	1291	37355	43806	1770
	20	1669	70223	84794	1960	1491	60149	71571	1880	1432	56986	67501	1860	1314	50925	59737	1810
	29					1513	105951	125238	2160	1454	99147	116608	2110	1336	86649	100968	2020
30													1339	96960	114225	2090	
1 2 0 0	-54	1462	36199	41811	2280	1284	31157	35545	2230	1225	29526	33542	2210	1107	26333	29662	2180
	-50	1478	29984	34797	2170	1300	25941	29728	2130	1241	24626	28096	2120	1123	22042	24925	2090
	-40	1504	30203	35245	2080	1327	26202	30172	2040	1268	24900	28545	2030	1150	22342	25396	2010
	-30	1532	30236	35463	2000	1355	26302	30454	1960	1296	25021	28840	1950	1178	22503	25701	1920
	-20	1560	30260	35749	1920	1383	26383	30742	1880	1324	25121	29152	1870	1206	22640	26028	1850
	-10	1587	31312	37307	1850	1409	27337	32112	1820	1350	26044	30448	1810	1232	23506	27216	1790
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	20	1658	63595	76654	1910	1481	54667	64965	1840	1421	51846	61294	1820	1303	46418	54358	1780
	30					1504	100551	118484	2110	1445	94241	110567	2070	1327	82575	95964	1980
31									1448	105680	128645	2140	1330	91987	108701	2040	
1 8 0	-54	1452	34165	39370	2260	1275	29412	33475	2210	1216	27871	31589	2190	1098	24854	27931	2160
	-50	1494	28696	33387	2070	1317	24892	28580	2030	1258	23653	27051	2020	1140	21217	24047	2000
	-40	1522	28725	33588	1980	1345	24978	28835	1950	1286	23765	27311	1940	1168	21368	24332	1910
	-30	1550	28742	33847	1900	1373	25058	29106	1870	1313	23857	27599	1860	1195	21495	24635	1840
	-20	1576	29698	35246	1840	1399	25928	30357	1810	1340	24701	28783	1800	1222	22289	25723	1780
	-10	1601	33905	40595	1800	1424	29573	34906	1770	1365	28169	33088	1760	1247	25416	29548	1740
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	10	1647	57978	69703	1860	1470	49980	59218	1800	1411	47439	55940	1780	1292	42534	49671	1750
	20	1669	80332	123335	2130	1492	86467	101798	2010	1433	81348	95312	1970	1315	71755	83311	1900
	32					1497	107016	127243	2150	1438	100107	116823	2100	1319	87404	101096	2000
33													1322	98241	117947	2080	
1 6 0	-54	1442	32289	37138	2240	1265	27804	31583	2190	1206	26342	29797	2180	1088	23485	26340	2150
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	-10	1566	28196	33370	1830	1388	24608	28733	1790	1329	23449	27248	1790	1211	21153	24345	1770
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	10	1613	40621	48857	1790	1436	35314	41700	1750	1377	33604	39474	1740	1259	30264	35219	1710
	20	1636	53151	63772	1830	1458	45919	54309	1770	1399	43614	51331	1750	1281	39146	45645	1720
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33					1487	101402	118560	2100	1428	95003	110617	2050	1310	83162	95948	1970	
1 4 0	-54	1433	30555	35033	2220	1256	26306	29804	2180	1196	24925	28121	2160	1078	22215	24852	2130
	-50	1446	25804	29710	2130	1269	22312	25358	2100	1210	21173	23972	2090	1092	18931	21244	2060
	-40	1475	25971	30045	2040	1298	22518	25724	2010	1238	21392	24330	2000	1120	19174	21626	1980
	-30	1502	25993	30218	1960	1325	22599	25939	1930	1266	21491	24556	1920	1148	19309	21876	1900
	-20	1529	26000	30433	1880	1352	22659	26177	1850	1293	21568	24802	1840	1175	19420	22138	1820
	-10	1555	26795	31599	1810	1378	23389	27213	1780	1319	22278	25798	1780	1201	20091	23058	1760
	0	1580	30274	36004	1770	1403	26415	30970	1740	1344	25161	29357	1730	1225	22697	26227	1710
	10	1602	37989	45355	1770	1425	33058	38905	1730	1366	31462	36854	1720	1248	28341	32868	1700
	20	1624	48953	58550	1790	1447	42367	49966	1740	1388	40258	47245	1730	1270	36165	42041	1700
	30	1645	78922	93971	1960	1468	67083	78793	1870	1409	63396	74126	1840	1290	56370	65301	1790
35					1480	108173	130323	2130	1421	101149	11						



SINGLE-ENGINE TAKEOFF FLIGHT PATH DISTANCES  
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FLAPS - 15°  
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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	1413	27449	31313	2190	1236	23625	26633	2150	1177	22380	25123	2140	1059	19931	22200	2110
	-50	1426	23434	26822	2110	1249	20249	22893	2080	1190	19208	21622	2070	1072	17156	19156	2050
	-40	1454	23573	27107	2020	1277	20426	23196	1990	1218	19397	21945	1980	1100	17369	19477	1960
	-30	1481	23589	27270	1930	1304	20496	23396	1910	1245	19484	22142	1900	1127	17489	19710	1880
	-20	1507	23590	27433	1860	1330	20546	23585	1830	1271	19550	22354	1820	1153	17587	19925	1800
	-10	1533	24257	28412	1790	1356	21163	24460	1770	1297	20147	23192	1760	1179	18160	20706	1740
	0	1558	27164	32070	1750	1380	23700	27604	1720	1321	22571	26164	1710	1203	20350	23364	1690
	10	1580	33462	39686	1740	1403	29135	34079	1700	1344	27732	32288	1690	1226	24983	28797	1670
	20	1602	41998	49943	1740	1424	36437	42735	1700	1365	34646	40453	1690	1247	31156	36029	1660
	30	1622	63113	74885	1840	1444	54113	63351	1770	1385	51269	59757	1750	1267	45794	52871	1710
37	1636	117045	141595	2180	1459	96950	112204	2040	1400	90913	104784	2000	1282	79674	91081	1920	
1 0 5 0	-54	1388	24128	27346	2150	1210	20750	23243	2120	1151	19647	21929	2110	1033	17475	19343	2090
	-40	1428	20952	23925	1990	1251	18134	20455	1970	1191	17211	19330	1960	1073	15389	17144	1940
	-30	1454	20963	24046	1910	1277	18193	20611	1880	1218	17285	19509	1880	1100	15494	17332	1860
	-20	1480	20958	24174	1830	1303	18233	20778	1810	1244	17340	19672	1800	1126	15578	17525	1790
	-10	1505	21499	24968	1770	1328	18739	21479	1750	1269	17835	20362	1740	1151	16051	18168	1720
	0	1529	23848	27918	1720	1352	20796	24022	1700	1293	19798	22762	1690	1175	17833	20309	1670
	10	1551	28812	33880	1700	1374	25095	29104	1670	1315	23885	27572	1660	1197	21508	24613	1640
	20	1572	35248	41608	1690	1395	30631	35656	1660	1336	29137	33763	1640	1218	26213	30098	1620
	30	1592	49786	58756	1740	1415	42945	50016	1690	1356	40758	47246	1680	1238	36514	41927	1640
	40	1611	107289	124966	2090	1434	89318	102785	1970	1375	83866	96139	1930	1257	73635	83700	1850
41					1437	99820	114681	2030	1378	93456	106952	1990	1260	81641	92669	1910	
1 0 0 0	-54	1363	21300	23985	2130	1186	18294	20365	2090	1127	17311	19192	2080	1009	15372	16914	2060
	-40	1418	18492	20794	1970	1241	16013	17826	1950	1182	15199	16841	1940	1064	13590	15003	1920
	-30	1444	18504	20895	1890	1267	16065	17946	1870	1208	15265	16982	1860	1090	13683	15124	1840
	-20	1472	18491	20994	1810	1294	16095	18059	1790	1235	15309	17117	1780	1117	13753	15321	1770
	-10	1493	18965	21703	1750	1316	16533	18690	1730	1256	15735	17711	1720	1138	14158	15808	1710
	0	1502	21014	24363	1700	1324	18309	20952	1680	1265	17423	19847	1670	1147	15675	17704	1660
	10	1520	25005	29145	1670	1343	21771	25047	1640	1284	20716	23723	1640	1166	18637	21146	1620
	20	1542	29978	35098	1650	1365	26067	30113	1620	1306	24796	28515	1610	1188	22301	25413	1590
	30	1561	40481	47445	1670	1384	35029	40518	1630	1325	33273	38323	1620	1207	29846	34061	1600
	40	1579	74235	86382	1860	1401	62993	72403	1780	1342	59473	68098	1750	1224	52740	59866	1710
44	1587	109684	126951	2080	1410	90887	103977	1950	1351	85202	97073	1910	1233	74576	84310	1840	
9 5 0	-54	1350	18691	20839	2100	1173	16059	17709	2070	1114	15196	16750	2060	996	13491	14824	2050
	-40	1415	16349	18390	1950	1238	14171	15785	1930	1179	13455	15005	1920	1061	12038	13368	1910
	-30	1441	16356	18430	1870	1264	14214	15965	1850	1205	13510	15090	1840	1087	12117	13474	1830
	-20	1467	16342	18450	1790	1290	14239	16021	1780	1231	13547	15156	1770	1113	12178	13563	1760
	-10	1488	16720	18973	1730	1311	14592	16394	1710	1252	13892	15627	1700	1134	12508	14009	1690
	0	1498	18353	20916	1680	1321	16012	18034	1660	1262	15244	17093	1650	1144	13726	15323	1640
	10	1491	21828	25333	1650	1314	18988	21749	1620	1255	18058	20590	1620	1137	16225	18328	1600
	20	1511	25743	30001	1620	1334	22383	25747	1590	1275	21283	24370	1580	1157	19124	21697	1570
	30	1530	33592	39254	1620	1353	29110	33556	1590	1294	27658	31742	1580	1176	24813	28226	1560
	40	1547	55481	64577	1730	1370	47504	54604	1670	1310	44966	51466	1650	1192	40058	45452	1620
44	1553	74176	86107	1830	1376	62781	71993	1760	1317	59212	67614	1730	1199	52390	59310	1680	
9 0 0	-54	1346	16417	18254	2080	1169	14120	15653	2050	1110	13365	14835	2040	992	11873	13128	2030
	-40	1412	14521	16456	1930	1235	12597	14116	1910	1176	11963	13423	1910	1058	10708	11955	1890
	-30	1438	14524	16491	1850	1261	12633	14179	1830	1202	12010	13497	1830	1084	10776	12048	1820
	-20	1464	14511	16509	1780	1287	12653	14337	1760	1228	12041	13556	1760	1110	10829	12127	1750
	-10	1485	14817	16959	1710	1308	12942	14645	1700	1249	12325	13964	1690	1131	11101	12515	1680
	0	1495	16137	18401	1660	1317	14094	15906	1640	1258	13423	15167	1640	1140	12093	13604	1630
	10	1481	18920	21835	1620	1304	16473	18779	1600	1245	15671	17783	1600	1127	14086	15848	1580
	20	1479	22270	26086	1590	1302	19342	22346	1570	1243	18384	21137	1560	1124	16497	18795	1550
	30	1497	28287	33234	1580	1320	24517	28405	1560	1261	23291	26873	1550	1143	20882	23866	1530
	40	1513	43453	50977	1640	1336	37367	43247	1600	1277	35411	40789	1580	1159	31604	36072	1560
44	1520	54743	64096	1700	1342	46759	54042	1640	1283	44218	50881	1630	1165	39308	44825	1590	
8 5 0	-54	1343	14492	16227	2060	1166	12474	13917	2040	1107	11810	13194	2030	989	10495	11672	2020
	-40	1409	12939	14707	1920	1232	11231	12699	1900	1173	10668	12043	1890	1055	9552	10749	1880
	-30	1435	12940	14763	1840	1258	11262	12779	1820	1199	10708	12131	1820	1081	9611	10852	1810
	-20	1461	12927	14803	1760	1284	11279	12844	1750	1225	10736	12204	1740	1107	9658	10942	1730
	-10	1481	13178	15177	1700	1304	11518	13185	1680	1245	10970	12534	1680	1127	9885	11252	1670
	0	1491	14259	16412	1640	1314	12464	14177	1630	1255	11873	13522	1620	1137	10702	12124	1620
	10	1477	16478	18835	1600	1300	14364	16259	1590	1241	13669	15987	1580	1123	12293	13779	1570
	20	1464	19155	22094	1570	1287	16652	18958	1550	1228	15830	17939	1540	1110	14205	15961	1530
	30	1462	24071	28109	1550	1285	20847	24003	1530	1226	19794	22698	1520	1108	17722	20128	1510



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

**FLAPS - 15°  
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 2 3 7 5	-54	1505	35757	41854	2260	1328	30914	35712	2210	1269	29346	33750	2190	1151	26276	29948	2160
	-50	1518	32956	38702	2190	1341	28577	33108	2140	1282	27156	31318	2130	1164	24368	27845	2100
	-40	1548	33178	39185	2090	1371	28849	33608	2050	1312	27443	31823	2040	1194	24684	28359	2010
	-30	1577	33207	39431	2010	1400	28951	33908	1970	1341	27569	32138	1960	1223	24855	28704	1930
	-20	1605	33630	40167	1930	1428	29386	34615	1890	1369	28007	32836	1880	1251	25300	29382	1860
	-10	1633	36899	44569	1890	1455	32226	38371	1850	1396	30713	36372	1830	1278	27751	32543	1810
	0	1657	46939	57061	1900	1480	40798	48859	1850	1421	38828	46255	1830	1303	34996	41272	1800
	10	1681	66030	80265	1980	1504	56789	68015	1910	1445	53875	64219	1880	1327	48273	56961	1840
	20	1706	103531	125731	2190	1529	86739	103767	2070	1469	81661	97195	2030	1351	72158	85023	1960
	24										1480	106579	130820	2190	1362	92743	109091
1 2 2 0 0 0	-54	1497	34029	39757	2240	1320	29427	33929	2190	1261	27935	32065	2180	1143	25011	28451	2150
	-50	1510	31449	36854	2170	1333	27273	31530	2130	1274	25916	29824	2120	1156	23252	26528	2090
	-40	1539	31654	37305	2080	1362	27526	31998	2040	1303	26184	30298	2030	1185	23550	26996	2000
	-30	1568	31682	37537	1990	1391	27624	32282	1960	1332	26304	30597	1950	1214	23712	27339	1920
	-20	1596	32072	38222	1920	1419	28027	32941	1880	1360	26712	31247	1870	1242	24128	27957	1850
	-10	1623	35061	42253	1870	1446	30626	36362	1830	1387	29195	34493	1820	1269	26380	30864	1800
	0	1648	44127	53499	1870	1471	38395	45875	1830	1412	36551	43441	1810	1294	32959	38775	1780
	10	1672	60835	73083	1940	1494	52467	62719	1870	1435	49815	59262	1850	1317	44700	52655	1810
	20	1696	91561	110998	2100	1518	77391	92443	2000	1459	73041	86813	1960	1341	64828	76305	1900
	25					1531	109048	133096	2200	1472	101958	120816	2140	1354	89008	104402	2050
1 2 0 0 0	-54	1487	32207	37530	2220	1310	27855	32031	2180	1251	26443	30287	2160	1133	23671	26869	2130
	-50	1500	29850	34899	2160	1323	25887	29858	2120	1264	24598	28241	2100	1146	22064	25114	2080
	-40	1529	30039	35298	2070	1352	26122	30294	2030	1293	24848	28683	2020	1175	22343	25552	1990
	-30	1558	30066	35537	1980	1381	26212	30558	1940	1322	24962	28964	1930	1204	22497	25875	1910
	-20	1586	30423	36168	1900	1409	26587	31171	1870	1350	25338	29567	1860	1232	22883	26448	1840
	-10	1613	33132	39805	1850	1436	28954	34287	1820	1377	27597	32522	1810	1259	24936	29098	1780
	0	1637	41249	49879	1850	1460	35918	42781	1810	1401	34201	40542	1790	1283	30852	36198	1770
	10	1661	55729	67447	1900	1484	48180	57467	1840	1424	45776	54331	1820	1306	41126	48350	1780
	20	1684	80798	97776	2020	1507	68775	82044	1930	1448	65040	77182	1900	1330	57935	68083	1850
	27									1465	106629	130592	2160	1347	92828	108420	2060
1 1 8 0 0	-54	1477	30527	35470	2200	1300	26403	30275	2160	1241	25069	28632	2150	1123	22431	25390	2120
	-50	1490	28368	33064	2140	1313	24600	28286	2100	1254	23373	26768	2090	1136	20959	23785	2070
	-40	1519	28544	33435	2050	1342	24818	28692	2020	1283	23605	27163	2000	1165	21219	24193	1980
	-30	1548	28565	33655	1970	1371	24905	28941	1930	1311	23712	27427	1920	1193	21365	24496	1900
	-20	1576	28892	34216	1890	1398	25248	29504	1860	1339	24060	27984	1850	1221	21722	25027	1830
	-10	1602	31355	37541	1840	1425	27404	32343	1810	1366	26120	30678	1790	1248	23598	27446	1770
	0	1627	36640	46546	1830	1449	33675	39994	1790	1390	32071	37885	1780	1272	28936	33852	1750
	10	1650	51301	61932	1860	1473	44437	52858	1810	1414	42243	49996	1790	1295	37988	44529	1760
	20	1673	72082	87033	1960	1495	61678	73399	1880	1436	58417	69175	1850	1318	52177	61194	1810
	28					1515	106772	126606	2160	1456	99917	117429	2110	1338	87326	101650	2020
1 1 6 0 0	-54	1468	28966	33576	2190	1291	25052	28673	2150	1231	23778	27094	2140	1113	21274	24024	2110
	-50	1480	26985	31370	2130	1303	23396	26849	2090	1244	22226	25390	2080	1126	19924	22553	2060
	-40	1509	27143	31709	2040	1332	23598	27210	2000	1273	22442	25758	1990	1155	20167	22948	1970
	-30	1537	27164	31919	1950	1360	23680	27444	1920	1301	22543	26021	1910	1183	20305	23219	1890
	-20	1565	27463	32436	1880	1388	23986	27965	1850	1329	22865	26522	1840	1211	20637	23727	1820
	-10	1591	29708	35448	1820	1414	25973	30566	1790	1355	24748	28985	1780	1237	22355	25927	1760
	0	1616	36277	43571	1810	1438	31632	37456	1770	1379	30129	35505	1760	1261	27187	31710	1740
	10	1639	47419	57087	1830	1461	41138	48812	1780	1402	39124	46212	1770	1284	35208	41160	1740
	20	1661	64917	78218	1900	1484	55767	66223	1830	1425	52880	62505	1810	1307	47329	55391	1770
	30									1449	104510	124681	2130	1331	91087	105591	2030
1 1 4 0 0	-54	1458	27512	31792	2170	1281	23790	27147	2140	1222	22578	25649	2120	1103	20194	22736	2100
	-50	1470	25689	29765	2120	1293	22267	25471	2080	1234	21151	24085	2070	1116	18952	21399	2050
	-40	1499	25833	30078	2030	1322	22455	25806	1990	1263	21352	24427	1980	1145	19180	21755	1960
	-30	1527	25853	30273	1940	1350	22532	26040	1910	1291	21447	24672	1900	1173	19310	22008	1880
	-20	1554	26127	30749	1870	1377	22824	26507	1840	1318	21745	25136	1830	1200	19620	22481	1810
	-10	1581	28178	33500	1810	1403	24628	28863	1780	1344	23471	27391	1770	1226	21196	24496	1750
	0	1605	34122	40850	1790	1427	29764	35109	1760	1368	28352	33283	1750	1250	25584	29744	1720
	10	1627	43988	52780	1810	1450	38207	45204	1760	1391	36348	42784	1750	1273	32727	38145	1720
	20	1648	58904	70796	1860	1471	50757	60130	1800	1412	48171	56798	1780	1294	43183	50428	1740
	30	1672	113330	134873	2190	1495	94220	110585	2050	1436	88478	103381	2010	1318	77783	90080	1930
31					1497	104559	122504	2120	1438	97908	114198	2070	1320	85637	98990	1980	

Figure 4-32 (Sheet 13)



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

**FLAPS - 15°  
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 0	-54	1438	24881	28600	2150	1260	21504	24410	2110	1201	20402	23057	2100	1083	18232	20434	2080
	-50	1450	23329	26878	2090	1273	20208	22988	2060	1214	19188	21743	2050	1096	17177	19290	2030
	-40	1478	23451	27163	2000	1301	20371	23294	1970	1242	19363	22042	1960	1124	17378	19615	1940
	-30	1506	23467	27318	1920	1328	20439	23485	1890	1269	19448	22244	1880	1151	17498	19841	1870
	-20	1533	23699	27741	1840	1355	20690	23902	1820	1296	19706	22659	1810	1178	17764	20249	1790
	-10	1558	25423	30035	1790	1381	22213	25888	1760	1322	21165	24548	1750	1204	19100	21940	1740
	0	1582	30332	36089	1760	1405	26469	31048	1730	1346	25213	29433	1720	1228	22747	26298	1700
	10	1605	38186	45562	1760	1427	33223	39078	1720	1368	31619	37019	1710	1250	28486	33040	1690
	20	1627	49353	59525	1790	1450	42708	53569	1730	1391	40583	47626	1720	1272	36456	42382	1690
	30	1647	84039	99848	1980	1470	71235	83503	1890	1411	67250	78491	1860	1293	59700	69061	1800
34					1480	102354	119091	2080	1420	95893	111081	2040	1302	83927	96401	1950	
1 0 5 0	-54	1412	22028	25118	2120	1235	19019	21422	2090	1176	18035	20238	2080	1057	16094	17915	2060
	-50	1424	20748	23717	2070	1247	17951	20267	2040	1188	17035	19149	2030	1070	15227	16977	2010
	-40	1451	20847	23939	1980	1274	18087	20512	1950	1215	17184	19413	1940	1097	15399	17242	1930
	-30	1478	20858	24067	1900	1301	18146	20672	1870	1242	17258	19584	1860	1124	15503	17445	1850
	-20	1505	21048	24415	1820	1328	18356	21019	1800	1269	17474	19918	1790	1151	15731	17779	1780
	-10	1530	22450	26273	1760	1353	19600	22633	1740	1294	18668	21455	1730	1176	16833	19176	1720
	0	1553	26373	31062	1730	1376	23011	26740	1700	1317	21915	25346	1690	1199	19757	22633	1680
	10	1575	32415	38349	1720	1398	28231	32923	1680	1339	26873	31195	1670	1221	24211	27842	1650
	20	1597	40522	48090	1720	1420	35174	41172	1680	1361	33452	38959	1670	1243	30087	34704	1640
	30	1617	62483	73900	1820	1439	53584	62542	1760	1380	50769	58999	1740	1262	45348	52206	1700
38					1457	103324	119164	2060	1398	96721	111122	2020	1280	84494	96293	1930	
1 0 0 0	-54	1393	19468	21963	2090	1216	16801	18735	2060	1157	15927	17687	2060	1039	14201	15650	2040
	-40	1443	18392	20774	1950	1266	15968	17840	1930	1207	15172	16882	1920	1088	13599	15040	1910
	-30	1469	18405	20895	1870	1292	16020	17975	1850	1233	15238	17025	1840	1115	13690	15178	1830
	-20	1496	18555	21151	1800	1318	16191	18237	1780	1259	15415	17302	1770	1141	13880	15480	1760
	-10	1513	19761	22789	1740	1336	17253	19647	1720	1277	16431	18627	1710	1159	14807	16647	1700
	0	1524	23071	26932	1700	1346	20117	23160	1680	1287	19151	21960	1670	1169	17247	19592	1660
	10	1545	27814	32612	1680	1368	24227	28020	1650	1309	23059	26547	1640	1191	20763	23682	1630
	20	1566	33900	39893	1670	1389	29469	34218	1640	1330	28033	32405	1620	1212	25221	28873	1600
	30	1585	48897	57518	1720	1408	42183	48949	1670	1349	40035	46267	1660	1231	35864	41059	1630
	40	1605	100581	117108	2030	1428	84041	96663	1910	1369	78989	90489	1880	1250	69485	78941	1810
42					1432	105845	124568	2060	1373	98882	112981	2010	1255	86039	97508	1920	
9 5 0 0	-54	1390	17135	19138	2070	1213	14805	16488	2040	1154	14040	15558	2040	1036	12527	13825	2020
	-40	1440	16266	18341	1930	1263	14136	15887	1910	1204	13436	15015	1910	1086	12049	13407	1890
	-30	1466	16273	18382	1850	1289	14179	15962	1830	1230	13491	15100	1830	1112	12127	13512	1820
	-20	1493	16395	18661	1780	1315	14321	16135	1760	1256	13639	15385	1760	1138	12288	13800	1750
	-10	1510	17363	19765	1720	1333	15177	17114	1700	1274	14460	16324	1700	1156	13039	14661	1680
	0	1503	20155	23191	1680	1326	17573	19967	1660	1267	16727	18935	1650	1149	15056	16904	1640
	10	1514	24055	27953	1650	1337	20942	24008	1630	1278	19925	22754	1620	1160	17922	20280	1600
	20	1535	28738	33537	1630	1358	24991	28777	1600	1299	23772	27251	1590	1181	21377	24284	1570
	30	1553	39499	46146	1650	1376	34179	39414	1620	1317	32463	37257	1600	1199	29114	33130	1580
	40	1571	69741	81083	1810	1393	59300	68077	1740	1334	56017	64061	1720	1216	49726	56391	1670
42	1574	82773	96057	1890	1397	69783	79988	1800	1338	65751	75067	1770	1220	58084	65773	1720	
9 0 0 0	-54	1387	15163	17061	2050	1210	13114	14705	2030	1151	12438	13866	2020	1033	11103	12320	2010
	-40	1437	14451	16418	1920	1260	12569	14115	1900	1201	11949	13436	1890	1083	10721	11993	1880
	-30	1463	14455	16454	1840	1286	12605	14290	1820	1227	11996	13511	1810	1109	10788	12086	1800
	-20	1487	14555	16586	1770	1311	12724	14438	1750	1252	12121	13771	1740	1134	10925	12349	1730
	-10	1507	15343	17508	1700	1330	13424	15261	1690	1271	12793	14453	1680	1152	11542	12975	1670
	0	1499	17564	19998	1660	1322	15334	17363	1640	1263	14601	16448	1640	1145	13152	14757	1620
	10	1485	20887	24300	1630	1308	18169	20857	1610	1249	17279	19743	1600	1131	15523	17581	1580
	20	1502	24606	28815	1600	1325	21386	24696	1570	1266	20335	23372	1570	1147	18266	20809	1550
	30	1520	32603	38240	1600	1343	28248	32691	1570	1284	26832	30913	1560	1166	24063	27471	1540
	40	1537	52180	61039	1690	1359	44724	51636	1640	1300	42346	48697	1620	1182	37739	43008	1590
42	1540	59492	69548	1730	1363	50761	58580	1670	1304	47994	55125	1650	1186	42659	48575	1610	
8 5 0 0	-54	1384	13468	15220	2030	1207	11655	13090	2010	1148	11058	12395	2010	1030	9874	11009	1990
	-40	1434	12881	14683	1900	1257	11209	12711	1890	1198	10659	12066	1880	1080	9566	10794	1870
	-30	1460	12882	14742	1820	1283	11240	12792	1810	1224	10698	12155	1800	1106	9624	10898	1790
	-20	1486	12966	14882	1750	1309	11341	12944	1740	1250	10805	12310	1730	1132	9742	11061	1720
	-10	1503	13613	15617	1690	1326	11920	13581	1680	1267	11361	12916	1670	1149	10254	11608	1660
	0	1495	15406	17677	1640	1318	13462	15281	1630	1259	12823	14574	1620	1141	11556	13074	1610
	10	1482	18007	20647	1600	1304	15685	17761	1590	1245	14922	16844	1580	1127	13417	15001	1570
	20	1468	21204	24788	1570	1291	18408	21227	1550	1232	17494	20074	1540	1113	15689	17829	1530
	30	1485	27320	32037	1570	1307	23665	27367	1540	1248	22475	25869	1530	1130	20136	22959	1510
	40	1															



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

**FLAPS - 15°  
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 2 3 7 5	-54	1531	33303	39380	2220	1354	28897	33700	2170	1295	27467	31883	2160	1177	24665	28362	2130
	-50	1542	33393	39578	2180	1365	29008	33904	2130	1306	27585	32090	2120	1188	24795	28572	2090
	-40	1574	33553	40014	2080	1397	29225	34365	2040	1338	27821	32558	2030	1220	25066	29054	2000
	-30	1603	33765	40549	2000	1426	29481	34900	1960	1367	28090	33093	1950	1249	25362	29588	1920
	-20	1632	34694	42093	1930	1455	30332	36235	1890	1396	28917	34372	1880	1278	26146	30763	1850
	-10	1659	41378	50482	1910	1482	36096	43378	1860	1423	34393	41105	1850	1305	31071	36768	1820
	0	1684	56447	68964	1960	1506	48870	58795	1900	1447	46458	55612	1880	1329	41794	49518	1840
	10	1708	85401	104246	2110	1531	72591	87283	2020	1472	68632	82093	1980	1353	61119	72400	1930
	19					1555	121083	183616	2320	1496	112717	147090	2250	1378	97716	115798	2140
	20													1381	104970	138161	2190
1 2 2 0 0	-54	1523	31740	37454	2200	1346	27544	32055	2160	1287	26182	30327	2140	1169	23508	26974	2120
	-50	1535	31824	37638	2160	1358	27648	32246	2120	1299	26292	30520	2110	1181	23630	27187	2080
	-40	1565	31968	38043	2070	1388	27849	32676	2030	1329	26511	30958	2020	1211	23884	27623	1990
	-30	1594	32160	38515	1980	1417	28084	33172	1950	1358	26760	31455	1940	1240	24159	28121	1910
	-20	1623	33005	39926	1910	1446	28863	34397	1880	1387	27518	32630	1860	1269	24881	29204	1840
	-10	1650	39082	47563	1890	1472	34116	40894	1850	1413	32512	38780	1840	1295	29378	34672	1810
	0	1674	52469	63964	1930	1497	45508	54654	1870	1438	43285	51738	1850	1320	38975	46103	1820
	10	1698	76857	93666	2050	1521	65686	78868	1960	1462	62202	74314	1930	1344	55552	65733	1880
	20					1547	109898	134450	2220	1488	102716	122591	2170	1370	89637	105847	2070
	21									1491	110198	138480	2220	1372	95665	112960	2110
1 2 0 0 0	-54	1513	30086	35399	2180	1336	26111	30299	2140	1277	24818	28664	2130	1159	22280	25491	2100
	-50	1525	30162	35568	2140	1348	26206	30475	2110	1289	24920	28843	2090	1171	22393	25689	2070
	-40	1555	30293	35940	2050	1378	26392	30873	2020	1319	25123	29249	2000	1201	22630	26094	1980
	-30	1584	30466	36372	1970	1407	26607	31311	1930	1348	25352	29707	1920	1230	22885	26556	1900
	-20	1612	31228	37648	1900	1435	27314	32443	1860	1376	26041	30777	1850	1258	23544	27544	1830
	-10	1639	36705	44515	1870	1462	32061	38295	1830	1403	30558	36319	1820	1285	27616	32497	1790
	0	1663	48485	58949	1900	1486	42123	50434	1840	1427	40085	47771	1830	1309	36123	42622	1800
	10	1687	68888	83790	1990	1510	59155	70875	1910	1451	56095	66897	1890	1333	50223	59300	1840
	20	1712	111586	135659	2240	1535	92889	111197	2100	1476	87294	103949	2060	1358	76897	90648	1980
	23									1485	112328	165583	2220	1367	97413	115027	2110
1 1 8 0 0	-54	1503	28557	33517	2170	1326	24784	28687	2130	1267	23555	27138	2110	1149	21141	24142	2090
	-50	1515	28627	33673	2130	1338	24872	28851	2090	1279	23649	27304	2080	1161	21241	24307	2060
	-40	1545	28746	33998	2040	1368	25036	29213	2000	1309	23839	27682	1990	1190	21468	24691	1970
	-30	1574	28903	34414	1950	1396	25243	29626	1920	1337	24050	28107	1910	1219	21706	25120	1890
	-20	1602	29593	35576	1880	1425	25887	30566	1850	1366	24680	29085	1840	1247	22310	26027	1820
	-10	1628	34555	41778	1850	1451	30196	35976	1820	1392	28783	34123	1800	1274	26015	30534	1780
	0	1652	44995	54540	1870	1475	39144	46766	1820	1416	37263	44285	1810	1298	33600	39531	1780
	10	1676	62328	75631	1940	1499	53715	64236	1870	1440	50990	60685	1850	1322	45739	53878	1810
	20	1700	95535	115907	2120	1523	80520	96255	2010	1464	75932	90289	1970	1346	67298	79224	1910
	24					1533	110737	136443	2200	1474	103504	122624	2150	1356	90304	105883	2050
1 1 6 0 0	-54	1493	27140	31749	2150	1316	23551	27173	2120	1257	22382	25704	2110	1139	20081	22860	2080
	-50	1505	27203	31893	2120	1328	23633	27325	2080	1269	22469	25873	2070	1151	20180	23019	2050
	-40	1534	27314	32194	2020	1357	23794	27669	1990	1298	22647	26210	1980	1180	20389	23372	1960
	-30	1563	27457	32577	1940	1386	23978	28044	1910	1327	22844	26605	1900	1209	20611	23772	1880
	-20	1591	28085	33616	1870	1414	24568	28991	1840	1355	23422	27501	1830	1237	21168	24605	1810
	-10	1617	32602	39279	1840	1440	28498	33815	1800	1381	27166	32075	1790	1263	24553	28701	1770
	0	1641	41911	50643	1840	1464	36498	43441	1800	1405	34754	41170	1790	1287	31351	36764	1760
	10	1664	56820	68747	1890	1487	49102	58559	1830	1428	46647	55359	1810	1310	41901	49235	1780
	20	1688	83557	101149	2030	1510	71001	84673	1930	1451	67111	79660	1900	1333	59727	70184	1850
	26					1526	113706	148933	2210	1467	106211	128708	2150	1349	92542	107992	2050
1 1 4 0 0	-54	1483	25822	30123	2140	1306	22403	25777	2110	1247	21288	24396	2090	1129	19093	21676	2070
	-50	1495	25880	30256	2100	1318	22480	25934	2070	1259	21370	24539	2060	1141	19186	21825	2040
	-40	1524	25982	30536	2010	1347	22630	26241	1980	1288	21536	24854	1970	1170	19383	22170	1950
	-30	1552	26114	30890	1930	1375	22801	26605	1900	1316	21720	25221	1890	1198	19591	22529	1870
	-20	1580	26687	31840	1860	1403	23343	27458	1830	1344	22252	26045	1820	1226	20105	23297	1800
	-10	1606	30810	36989	1820	1429	26937	31867	1790	1370	25677	30227	1780	1252	23204	27045	1760
	0	1630	39148	47151	1820	1453	34118	40495	1780	1394	32494	38384	1770	1276	29320	34303	1740
	10	1653	52075	62865	1880	1476	45108	53657	1800	1417	42878	50750	1780	1299	38556	45200	1750
	20	1676	73999	89379	1960	1499	63250	75272	1880	1440	59888	70957	1850	1322	53461	62711	1800
	27					1516	105082	124079	2140	1457	98414	115674	2090	1339	86129	100265	2000

525AFM-00-01

Figure 4-32 (Sheet 15)



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

**FLAPS - 15°  
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 0	-54	1463	23432	27157	2120	1285	20317	23243	2080	1226	19300	21977	2070	1108	17294	19524	2050
	-50	1474	23481	27270	2080	1297	20383	23364	2050	1238	19371	22102	2040	1120	17376	19654	2020
	-40	1503	23566	27525	1990	1326	20514	23630	1960	1267	19516	22389	1950	1148	17549	19943	1930
	-30	1531	23676	27810	1910	1354	20661	23943	1880	1295	19676	22692	1870	1176	17732	20269	1850
	-20	1558	24157	28607	1840	1381	21121	24665	1810	1322	20128	23391	1800	1204	18173	20924	1780
	-10	1584	24718	32903	1790	1406	21445	28368	1770	1347	23014	26906	1760	1229	20788	24065	1740
	0	1607	34385	41132	1780	1430	29996	35378	1750	1371	28574	33540	1740	1253	25787	29979	1710
	10	1630	44351	53216	1800	1453	38521	45578	1750	1394	36647	43139	1740	1276	32997	38465	1710
	20	1652	59813	71900	1850	1475	51519	61018	1790	1416	48889	57632	1770	1298	43818	51162	1730
	30	1675	120680	150843	2230	1498	99890	117031	2080	1439	93683	109298	2030	1321	82168	95021	1950
31					1501	110881	136572	2150	1442	103678	121990	2100	1324	90450	104382	2000	
1 0 5 0 0	-54	1436	20821	23921	2090	1259	18034	20456	2060	1200	17121	19346	2050	1082	15320	17155	2030
	-50	1448	20861	24013	2050	1270	18090	20557	2030	1211	17182	19450	2020	1093	15391	17276	2000
	-40	1476	20930	24224	1960	1298	18200	20792	1940	1239	17306	19680	1930	1121	15540	17522	1910
	-30	1503	21018	24456	1880	1326	18323	21040	1860	1267	17440	19946	1850	1149	15697	17784	1840
	-20	1530	21408	25101	1810	1352	18701	21629	1790	1293	17814	20505	1780	1175	16064	18324	1770
	-10	1555	24223	28580	1770	1378	21167	24620	1740	1318	20169	23361	1730	1200	18202	20879	1720
	0	1578	29530	34988	1740	1401	25772	30109	1710	1341	24549	28545	1700	1223	22148	25524	1680
	10	1600	36957	43966	1740	1423	32166	37726	1700	1364	30616	35744	1690	1246	27586	31889	1670
	20	1622	47617	56805	1760	1445	41236	48484	1710	1386	39191	45880	1700	1268	35218	40820	1670
	30	1642	81477	96472	1950	1465	69173	80846	1860	1406	65346	76043	1830	1288	58059	66965	1780
35					1477	107485	127532	2100	1418	100580	116044	2050	1300	87830	100493	1960	
1 0 0 0 0	-54	1430	18341	20695	2060	1253	15902	17748	2040	1194	15102	16785	2030	1076	13520	14947	2020
	-50	1441	18379	20793	2030	1264	15952	17837	2000	1205	15155	16876	2000	1087	13581	15020	1980
	-40	1468	18444	20969	1940	1291	16051	18031	1920	1232	15265	17088	1910	1114	13712	15278	1900
	-30	1494	18525	21173	1860	1317	16160	18259	1840	1258	15384	17306	1830	1140	13849	15455	1820
	-20	1516	18872	21756	1790	1339	16491	18770	1770	1280	15709	17813	1760	1162	14165	15929	1750
	-10	1525	21345	24931	1740	1348	18635	21476	1720	1289	17748	20371	1710	1171	15997	18187	1700
	0	1547	25574	30025	1710	1370	22313	25851	1690	1311	21250	24504	1680	1193	19155	21881	1660
	10	1569	31260	36660	1690	1392	27230	31673	1660	1333	25921	30012	1650	1215	23353	26789	1630
	20	1591	38970	46111	1690	1414	33842	39497	1660	1355	32187	37399	1640	1237	28956	33324	1620
	30	1610	60311	71126	1790	1433	51776	60260	1730	1374	49071	56864	1710	1256	43851	50369	1670
38	1627	117144	141088	2150	1450	96947	111797	2000	1391	90880	104337	1960	1273	79587	90643	1880	
9 5 0 0 0	-54	1428	16227	18286	2040	1251	14084	15820	2020	1192	13379	14945	2020	1074	11985	13329	2000
	-50	1439	16256	18329	2010	1261	14124	15873	1990	1202	13423	15001	1980	1084	12036	13391	1970
	-40	1465	16306	18413	1920	1288	14205	15985	1900	1229	13514	15121	1890	1111	12146	13530	1880
	-30	1491	16368	18631	1840	1314	14293	16105	1820	1255	13611	15355	1820	1137	12260	13770	1800
	-20	1513	16642	18931	1770	1336	14559	16506	1750	1277	13873	15640	1750	1159	12517	14049	1730
	-10	1520	18626	21293	1720	1343	16282	18390	1700	1284	15513	17489	1690	1166	13993	15717	1680
	0	1516	22285	25915	1690	1339	19428	22299	1660	1280	18493	21129	1650	1162	16850	18860	1640
	10	1538	26728	31230	1660	1361	23281	26853	1630	1302	22158	25441	1620	1184	19948	22694	1610
	20	1559	32496	38141	1650	1382	28255	32706	1610	1323	26879	30974	1600	1205	24182	27616	1580
	30	1577	47008	55127	1700	1400	40579	46972	1650	1341	38518	44381	1640	1223	34512	39418	1610
40	1597	93886	109241	1970	1419	78735	90494	1860	1360	74079	84789	1830	1242	65283	74117	1770	
9 0 0 0 0	-54	1425	14422	16370	2030	1248	12527	14138	2010	1189	11904	13409	2000	1071	10668	11974	1990
	-50	1436	14445	16426	1990	1259	12561	14199	1970	1200	11940	13473	1960	1081	10711	12042	1950
	-40	1462	14483	16542	1900	1285	12627	14334	1890	1226	12016	13613	1880	1108	10805	12195	1870
	-30	1488	14531	16549	1820	1311	12700	14367	1810	1252	12096	13654	1800	1133	10901	12253	1790
	-20	1510	14751	16910	1750	1333	12915	14699	1740	1274	12311	13978	1730	1156	11113	12555	1720
	-10	1516	16355	18649	1700	1339	14312	16264	1680	1280	13641	15412	1680	1162	12311	13846	1670
	0	1503	19319	22044	1660	1325	16852	19000	1640	1266	16043	18096	1640	1148	14445	16140	1620
	10	1505	23040	26648	1630	1327	20053	22901	1610	1268	19076	21688	1600	1150	17152	19338	1590
	20	1525	27468	31910	1610	1348	23885	27383	1580	1289	22717	25946	1570	1171	20423	23119	1560
	30	1544	37846	44024	1630	1366	32755	37614	1590	1307	31111	35578	1580	1189	27898	31619	1560
40	1561	65317	75747	1770	1383	55637	63727	1700	1324	52584	59994	1680	1206	46717	52849	1640	
8 5 0 0 0	-54	1422	12858	14616	2010	1245	11176	12639	1990	1186	10622	11992	1990	1068	9522	10718	1980
	-50	1433	12876	14663	1970	1256	11204	12691	1960	1197	10653	12047	1950	1079	9559	10777	1940
	-40	1459	12906	14760	1890	1282	11259	12806	1870	1223	10716	12168	1870	1105	9639	10909	1860
	-30	1486	12944	14871	1810	1309	11320	12930	1800	1250	10784	12296	1790	1132	9721	11046	1780
	-20	1507	13119	15168	1740	1329	11496	13209	1730	1270	10960	12568	1720	1152	9897	11306	1710
	-10	1512	14435	16616	1680	1335	12642	14494	1670	1276	12052	13726	1660	1158	10882	12328	1650
	0	1498	16790	19176	1640	1321	14663	16585	1620	1262	13964	15815	1620	1144	12581	14190	1610
	10	1483	19831	23069	1610	1306	17259	19811	1590	1247	16417	18754	1580	1129	14753	16705	1570
	20	1489	23446	27557	1580	1312	20369	23613	1560	1253	19364	22340	1550	1135	1738		



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

**FLAPS - 15°  
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	1557	34375	40962	2210	1380	29872	35072	2160	1321	28413	33199	2150	1203	25555	29570	2120
	-50	1570	34487	41197	2170	1393	30002	35328	2130	1333	28548	33454	2110	1215	25701	29824	2080
	-40	1600	34616	41585	2080	1423	30197	35752	2040	1364	28764	33889	2020	1246	25957	30280	2000
	-30	1630	35492	42964	2000	1453	31021	37010	1960	1394	29571	35087	1950	1276	26731	31404	1920
	-20	1660	38226	46757	1940	1482	33413	40244	1900	1423	31857	38155	1890	1305	28815	34163	1860
	-10	1686	48696	59760	1960	1508	42367	51206	1900	1449	40340	48495	1890	1331	36400	43312	1850
	0	1711	70506	86460	2060	1533	60599	73189	1980	1474	57487	69070	1950	1356	51521	61279	1910
	10	1738	121511	149918	2380	1560	100531	121154	2220	1501	94334	113063	2170	1383	82905	98362	2080
	13	1745	193191	275880	2900	1568	123875	160725	2370	1509	115273	143942	2300	1391	99893	119106	2190
	15														1397	122305	172552
1 2 2 0 0	-54	1548	32712	38877	2190	1371	28433	33312	2150	1312	27045	31593	2140	1194	24323	28085	2110
	-50	1561	32813	39115	2150	1384	28553	33549	2110	1325	27170	31770	2100	1207	24459	28321	2070
	-40	1591	32929	39473	2060	1414	28733	33943	2020	1355	27370	32175	2010	1237	24698	28749	1990
	-30	1621	33727	40742	1980	1444	29486	35083	1950	1385	28110	33281	1930	1267	25410	29786	1910
	-20	1650	36208	44170	1930	1473	31664	38033	1890	1414	30193	36083	1870	1296	27313	32311	1850
	-10	1676	45605	55867	1930	1499	39726	47920	1880	1440	37838	45396	1870	1322	34162	40563	1840
	0	1701	64470	78931	2010	1524	55595	67037	1940	1465	52791	63348	1920	1347	47395	56285	1870
	10	1729	104624	127924	2250	1552	87747	105646	2120	1492	82646	98997	2080	1374	73105	86689	2000
	15					1563	120583	157190	2330	1504	112359	139326	2270	1386	97529	115510	2150
	1 2 0 0 0	-54	1539	30949	36674	2180	1361	26906	31430	2140	1302	25592	29752	2120	1184	23013	26496
-50		1551	31040	36870	2140	1374	27014	31629	2100	1315	25706	29969	2080	1197	23138	26714	2060
-40		1581	31143	37218	2050	1404	27179	32010	2010	1345	25890	30344	2000	1227	23360	27112	1970
-30		1611	31862	38351	1970	1434	27862	33050	1930	1375	26562	31352	1920	1257	24009	28059	1900
-20		1639	34090	41435	1910	1462	29824	35713	1870	1403	28441	33886	1860	1285	25731	30346	1840
-10		1665	42441	51821	1900	1488	37012	44493	1860	1429	35263	42184	1840	1311	31854	37709	1820
0		1690	58608	71598	1960	1513	50692	60997	1900	1454	48177	57683	1880	1335	43320	51347	1840
10		1714	90335	110224	2140	1537	76544	92005	2030	1478	72303	86470	2000	1360	64287	76125	1940
18						1559	123959	197217	2330	1500	115293	156744	2260	1382	99810	119653	2150
1 8 0 0		-54	1528	29322	34659	2160	1351	25492	29705	2120	1292	24246	28118	2110	1174	21799	25051
	-50	1541	29403	34838	2120	1364	25591	29888	2080	1304	24351	28319	2070	1186	21914	25238	2050
	-40	1571	29495	35158	2030	1394	25743	30242	1990	1335	24521	28667	1980	1217	22120	25609	1960
	-30	1600	30146	36193	1950	1423	26364	31193	1920	1364	25133	29590	1910	1246	22715	26478	1880
	-20	1629	32155	38961	1890	1452	28140	33589	1860	1392	26836	31871	1850	1274	24278	28540	1820
	-10	1654	39624	48237	1880	1477	34585	41470	1840	1418	32966	39332	1830	1300	29782	35162	1800
	0	1679	53628	65365	1920	1501	46493	55826	1870	1442	44217	52823	1850	1324	39807	47067	1810
	10	1703	79360	96708	2050	1526	67728	81298	1960	1466	64109	76579	1940	1348	57214	67665	1880
	20					1552	120344	187522	2290	1493	112092	146028	2220	1375	97257	114718	2110
	1 1 6 0 0	-54	1518	27817	32773	2140	1341	24184	28089	2110	1282	23000	26587	2100	1164	20673	23682
-50		1530	27891	32936	2110	1353	24274	28257	2070	1294	23097	26773	2060	1176	20780	23855	2040
-40		1560	27974	33211	2020	1383	24415	28587	1980	1324	23254	27097	1970	1206	20973	24201	1950
-30		1589	28565	34157	1940	1412	24982	29457	1910	1353	23814	27942	1890	1235	21518	24999	1870
-20		1618	30385	36686	1880	1441	26596	31635	1840	1382	25364	30017	1830	1263	22944	26878	1810
-10		1643	37103	45008	1860	1466	32407	38719	1820	1407	30888	36722	1810	1289	27917	32861	1780
0		1667	49344	59956	1890	1490	42858	51317	1840	1431	40782	48579	1820	1313	36748	43342	1790
10		1691	70626	85847	1990	1514	60594	72601	1910	1455	57444	68479	1880	1337	51409	60683	1840
20		1717	120317	150166	2290	1540	99496	118933	2130	1480	93334	111012	2090	1362	81958	96512	2000
22										1486	112495	153123	2210	1368	97625	115094	2100
1 1 4 0 0	-54	1508	26423	31043	2130	1331	22969	26804	2100	1272	21842	25194	2080	1154	19626	22422	2060
	-50	1520	26490	31192	2090	1343	23052	26759	2060	1284	21932	25351	2050	1166	19726	22582	2030
	-40	1550	26566	31446	2000	1372	23183	27068	1970	1313	22079	25655	1960	1195	19907	22921	1940
	-30	1579	27104	32315	1920	1401	23703	27867	1890	1342	22593	26432	1880	1224	20410	23642	1860
	-20	1607	28761	34619	1860	1430	25176	29855	1830	1370	24009	28328	1820	1252	21715	25362	1800
	-10	1632	34834	42124	1840	1455	30440	36275	1800	1396	29017	34408	1790	1277	26228	30774	1770
	0	1656	45620	55296	1860	1479	39682	47387	1810	1420	37774	44873	1800	1301	34061	40058	1770
	10	1679	63528	77091	1930	1502	54721	65419	1860	1443	51937	61798	1840	1325	46577	54859	1800
	20	1704	101204	122605	2140	1527	84980	101414	2020	1468	80053	95093	1990	1349	70815	83276	1920
	23					1534	109460	132631	2180	1475	102390	121144	2130	1357	89453	104785	2040

525AFM-06-01



Figure 4-32 (Sheet 17)



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

**FLAPS - 15°  
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 0 0 0	-54	1487	23918	27913	2110	1310	20782	23929	2070	1251	19757	22642	2060	1133	17739	20149	2040
	-50	1499	23975	28039	2070	1322	20854	24062	2040	1263	19835	22777	2030	1145	17826	20288	2010
	-40	1528	24039	28260	1980	1351	20969	24318	1950	1292	19965	23058	1940	1174	17987	20574	1920
	-30	1558	24494	28994	1900	1381	21412	24998	1870	1322	20405	23706	1860	1203	18420	21205	1850
	-20	1584	25881	30905	1840	1407	22653	26669	1810	1348	21599	25301	1800	1230	19525	22642	1780
	-10	1609	30911	37110	1810	1432	27027	31976	1780	1373	25765	30333	1770	1255	23287	27144	1750
	0	1633	39447	47481	1810	1455	34380	40783	1770	1396	32743	38659	1760	1278	29547	34533	1730
	10	1656	52623	63474	1850	1479	45566	54164	1790	1420	43313	51260	1780	1301	38946	45631	1740
	20	1679	76792	92630	1960	1501	65540	77889	1880	1442	62029	73364	1850	1324	55328	64802	1800
	27					1519	111079	136245	2170	1460	103896	122339	2110	1342	90725	105379	2020
1 0 5 0 0	-54	1461	21216	24532	2080	1284	18415	21017	2050	1225	17499	19879	2040	1106	15690	17671	2020
	-50	1472	21261	24635	2040	1295	18475	21126	2010	1236	17564	19991	2010	1117	15765	17788	1990
	-40	1499	21312	24818	1950	1322	18571	21341	1930	1263	17674	20228	1920	1145	15903	18029	1900
	-30	1528	21681	25415	1880	1351	18936	21898	1850	1292	18037	20759	1840	1174	16264	18551	1830
	-20	1555	22808	26959	1810	1378	19950	23240	1790	1319	19015	22058	1780	1201	17171	19723	1760
	-10	1579	26842	31882	1770	1402	23469	27493	1750	1343	22369	26077	1740	1225	20205	23325	1720
	0	1603	33369	39790	1760	1426	29117	34237	1730	1366	27738	32461	1720	1248	25034	29001	1690
	10	1625	42783	51193	1770	1448	37181	43851	1730	1389	35382	41516	1710	1271	31864	37049	1690
	20	1648	58174	69682	1820	1471	50150	59222	1770	1411	47602	55951	1750	1293	42681	49694	1710
	30	1670	111462	133159	2150	1493	93739	109528	2020	1434	88088	102474	1980	1316	77530	89415	1900
31					1495	102730	119816	2080	1436	86314	111831	2030	1318	84423	97197	1950	
1 0 0 0 0	-54	1454	18660	21180	2050	1277	16214	18185	2030	1218	15411	17224	2020	1100	13824	15373	2000
	-50	1465	18702	21272	2020	1288	16268	18282	1990	1229	15469	17323	1980	1111	13891	15452	1970
	-40	1492	18753	21439	1930	1315	16355	18483	1910	1256	15568	17518	1900	1138	14012	15641	1890
	-30	1518	19064	21943	1850	1341	16662	18939	1830	1282	15874	17976	1820	1164	14316	16079	1810
	-20	1539	20026	23275	1790	1362	17522	20114	1770	1303	16701	19083	1760	1185	15080	17083	1740
	-10	1549	23458	27584	1750	1372	20498	23778	1720	1313	19530	22548	1710	1195	17623	20164	1700
	0	1572	28554	33793	1720	1395	24923	29035	1690	1336	23740	27528	1680	1218	21417	24599	1670
	10	1595	35534	42141	1720	1418	30939	36198	1680	1359	29451	34279	1670	1240	26539	30606	1650
	20	1616	46091	54804	1740	1439	39936	46832	1690	1380	37961	44299	1670	1262	34120	39447	1650
	30	1636	76616	90497	1900	1458	65257	76070	1820	1399	61705	71614	1790	1281	54916	63164	1740
35					1471	100754	116627	2040	1412	94431	108873	1990	1294	82694	94553	1910	
9 5 0 0	-54	1452	16486	18574	2030	1274	14341	16104	2010	1215	13636	15331	2000	1097	12240	13705	1990
	-50	1462	16519	18742	1990	1285	14385	16161	1970	1226	13683	15391	1970	1108	12294	13771	1950
	-40	1489	16557	18817	1910	1312	14455	16264	1890	1253	13764	15505	1880	1135	12396	13903	1870
	-30	1515	16806	19098	1830	1338	14705	16655	1810	1279	14014	15784	1810	1161	12647	14180	1790
	-20	1536	17575	20140	1770	1359	15396	17480	1750	1300	14681	16578	1740	1182	13265	14917	1730
	-10	1526	20506	23803	1720	1348	17913	20524	1700	1289	17063	19460	1690	1171	15386	17398	1680
	0	1540	24640	28841	1690	1363	21497	24817	1670	1304	20471	23523	1660	1186	18450	21017	1640
	10	1562	29957	35206	1670	1385	26099	30259	1640	1326	24845	28674	1630	1208	22382	25594	1610
	20	1583	37557	44288	1670	1406	32624	37950	1640	1347	31031	35937	1620	1229	27915	32023	1600
	30	1603	56834	66845	1750	1426	48880	56732	1700	1366	46349	53561	1680	1248	41458	47485	1640
37	1617	96827	113098	2000	1440	81208	93703	1890	1381	76418	87812	1850	1262	67385	76772	1790	
9 0 0 0	-54	1449	14636	16676	2010	1272	12742	14430	1990	1213	12119	13698	1990	1095	10884	12256	1980
	-50	1459	14661	16738	1980	1282	12778	14498	1960	1223	12158	13767	1950	1105	10929	12328	1940
	-40	1486	14690	16723	1890	1309	12836	14515	1870	1250	12225	13794	1870	1132	11016	12376	1860
	-30	1512	14892	17035	1810	1335	13041	14814	1800	1276	12432	14089	1790	1158	11225	12664	1780
	-20	1533	15515	17841	1750	1356	13606	15473	1730	1297	12977	14777	1730	1179	11733	13295	1720
	-10	1521	17838	20377	1700	1344	15603	17662	1680	1285	14869	16853	1680	1167	13417	15048	1660
	0	1507	21397	24776	1670	1330	18650	21320	1640	1271	17750	20199	1640	1153	15974	18025	1620
	10	1528	25536	29718	1640	1351	22240	25538	1610	1292	21165	24194	1600	1174	19049	21592	1590
	20	1549	31202	36450	1620	1372	27128	31280	1590	1313	25805	29624	1580	1195	23210	26392	1570
	30	1568	44321	51753	1660	1391	38296	44141	1620	1332	36360	41717	1610	1214	32589	37066	1580
37	1580	66804	77788	1780	1403	56963	65510	1720	1344	53862	61700	1690	1226	47904	54409	1650	
8 5 0 0	-54	1446	13037	14861	2000	1269	11358	12878	1980	1209	10804	12229	1970	1091	9706	10952	1960
	-50	1456	13057	14913	1960	1279	11387	12935	1940	1220	10837	12288	1940	1102	9745	11014	1930
	-40	1483	13078	15004	1880	1306	11435	13045	1860	1247	10893	12404	1860	1129	9819	11142	1850
	-30	1509	13244	15265	1800	1332	11606	13297	1790	1273	11066	12654	1780	1155	9995	11387	1770
	-20	1529	13756	15963	1730	1352	12072	13915	1720	1293	11517	13246	1710	1175	10417	11931	1700
	-10	1517	15624	17925	1680	1340	13679	15639	1670	1281	13040	14818	1660	1163	11772	13314	1650
	0	1501	18409	21270	1640	1324	16065	18323	1620	1264	15296	17366	1620	1146	13775	15507	1610
	10	1493	21943	25812	1610	1316	19089	22130	1590	1256	18155	20959	1580	1138	16314	18649	1570
	20	1513	26276	31041	1590	1336	22839	26596	1560	1277	21719	25170	1550	1159	19515	22396	1540
	30	1531	35652	42134	1600	1354	30865	35970	1570	1295	29316	33991	1560	1177	26286	30199	1540



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

**FLAPS - 15°  
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	1583	36404	43829	2210	1406	31649	37551	2170	1347	30112	35551	2150	1229	27105	31685	2120
	-50	1596	36644	44286	2180	1419	31884	37947	2130	1360	30346	35936	2110	1242	27338	32049	2090
	-40	1627	36725	44694	2080	1450	32042	38393	2040	1391	30528	36393	2020	1273	27566	32528	2000
	-30	1657	38800	47498	2010	1480	33896	40856	1970	1421	32312	38751	1960	1303	29217	34663	1930
	-20	1686	44493	54777	1980	1509	38818	47045	1930	1450	36994	44587	1920	1332	33439	39902	1890
	-10	1713	59349	73185	2030	1536	51398	62406	1960	1476	48874	59040	1940	1358	44000	52578	1900
	0	1738	93592	115160	2230	1561	79277	96050	2110	1502	74889	90277	2080	1384	66610	79506	2010
	7	1758	167378	216241	2740	1581	126204	157392	2420	1522	117392	143842	2350	1404	101888	121448	2230
	9					1587	178720	234115	2810	1528	153851	197780	2620	1410	121172	152551	2370
1 2 0 0 0	-54	1574	34569	41504	2200	1397	30059	35566	2150	1338	28601	33675	2140	1220	25747	29996	2110
	-50	1587	34776	41911	2160	1410	30272	35926	2110	1351	28814	34026	2100	1233	25959	30348	2070
	-40	1618	34846	42261	2060	1441	30416	36338	2020	1382	28981	34449	2010	1264	26171	30775	1980
	-30	1648	36731	44815	2000	1471	32106	38591	1950	1412	30610	36585	1940	1294	27681	32749	1920
	-20	1677	41859	51359	1960	1500	36554	44169	1910	1440	34844	41894	1900	1322	31508	37483	1870
	-10	1703	54939	67578	1990	1526	47679	57731	1930	1467	45366	54647	1910	1349	40886	48763	1880
	0	1728	83367	102434	2140	1551	71099	86021	2050	1492	67295	81025	2020	1374	60067	71571	1960
	9	1753	163679	215901	2690	1576	122811	153659	2380	1517	114327	139889	2310	1399	99218	118074	2200
	10					1580	137964	180175	2480	1521	123810	159418	2380	1403	106690	129584	2250
12													1408	151505	202181	2570	
1 2 0 0 0	-54	1564	32618	39051	2180	1387	28378	33480	2130	1328	27003	31700	2120	1210	24308	28253	2090
	-50	1577	32808	39424	2160	1400	28569	33825	2100	1341	27195	32037	2080	1223	24501	28575	2060
	-40	1608	32857	39754	2050	1431	28699	34184	2010	1372	27347	32409	2000	1253	24696	28970	1970
	-30	1637	34563	42050	1980	1460	30225	36224	1940	1401	28819	34364	1930	1283	26064	30763	1900
	-20	1666	39137	47903	1940	1489	34204	41226	1890	1430	32612	39110	1880	1311	29498	34999	1850
	-10	1692	50535	62033	1960	1515	43943	53109	1900	1456	41834	50294	1890	1338	37741	44916	1850
	0	1717	73925	90691	2070	1540	63416	76650	1990	1481	60125	72302	1960	1363	53832	64063	1910
	10	1744	132041	168933	2440	1567	108221	130551	2260	1508	101305	121515	2200	1390	88668	105245	2110
	12					1572	125884	165998	2380	1513	117061	147922	2310	1395	101338	121392	2190
14													1401	132310	184972	2410	
1 8 0 0	-54	1554	30829	36793	2160	1377	26827	31551	2120	1318	25528	29875	2110	1200	22977	26624	2080
	-50	1566	30998	37130	2120	1389	26999	31865	2080	1330	25701	30182	2070	1212	23153	26918	2040
	-40	1597	31049	37419	2030	1420	27117	32194	1990	1361	25840	30523	1980	1243	23333	27283	1960
	-30	1627	32578	39508	1960	1449	28499	34046	1920	1390	27175	32300	1910	1272	24577	28916	1890
	-20	1655	36676	44738	1920	1478	32075	38524	1880	1419	30585	36552	1860	1300	27672	32736	1840
	-10	1681	46683	57116	1920	1504	40657	48992	1880	1444	38723	46412	1860	1326	34960	41475	1830
	0	1706	66262	81130	2010	1528	57089	68857	1940	1469	54197	65022	1910	1351	48636	57754	1870
	10	1731	109159	133494	2260	1554	91244	109825	2130	1495	85862	102833	2090	1377	75831	89887	2010
	14	1742	178586	268973	2760	1565	119002	151963	2310	1506	110935	135807	2250	1388	96415	114186	2140
1 6 0 0	-54	1544	29176	34728	2140	1366	25391	29784	2100	1307	24161	28201	2090	1189	21743	25128	2070
	-50	1558	29328	35014	2100	1381	25548	30053	2070	1321	24318	28464	2060	1203	21904	25398	2030
	-40	1586	29370	35298	2010	1409	25654	30374	1980	1350	24445	28797	1970	1232	22071	25736	1950
	-30	1616	30755	37175	1940	1439	26909	32041	1910	1380	25659	30398	1900	1261	23205	27210	1880
	-20	1644	34441	41888	1900	1466	30134	36085	1860	1407	28738	34240	1850	1289	26002	30666	1820
	-10	1668	43282	52824	1900	1491	37742	45357	1850	1432	35958	43005	1840	1314	32482	38447	1810
	0	1694	59900	73208	1960	1517	51780	62341	1890	1458	49203	58916	1870	1340	44232	52435	1830
	10	1719	93186	113772	2140	1542	78819	94778	2030	1483	74415	89039	2000	1365	66123	78313	1940
	17					1561	122059	172851	2310	1502	113620	146536	2240	1384	98504	117028	2130
1 1 4 0 0	-54	1533	27645	32792	2130	1356	24059	28125	2090	1297	22891	26629	2080	1179	20596	23723	2060
	-50	1545	27780	33049	2090	1368	24200	28369	2050	1309	23034	26869	2040	1191	20743	23971	2020
	-40	1576	27816	33289	2000	1398	24298	28665	1970	1339	23152	27176	1960	1221	20898	24284	1940
	-30	1605	29074	35017	1930	1428	25441	30185	1900	1368	24259	28637	1880	1250	21935	25631	1860
	-20	1632	32404	39256	1880	1455	28362	33849	1840	1396	27049	32120	1830	1278	24474	28768	1810
	-10	1658	40268	48967	1870	1481	35147	42104	1830	1422	33494	39930	1820	1304	30267	35709	1790
	0	1682	54543	66474	1920	1505	47271	56762	1860	1446	44952	53706	1840	1328	40464	47852	1800
	10	1706	81210	98920	2050	1529	69238	83091	1960	1470	65520	78254	1930	1352	58445	69088	1880
	19					1553	119468	166521	2270	1494	111344	139710	2210	1376	96709	113965	2100
20													1379	106225	141651	2170	

525AFM-06-01

Figure 4-32 (Sheet 19)



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

FLAPS - 15°  
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	1512	24910	29332	2100	1335	21674	25170	2070	1276	20817	23827	2060	1157	18538
0	-50	1524	25021	29563	2060	1347	21791	25374	2030	1288	20738	24044	2020	1170	18663	21426	2000
0	-40	1554	25047	29765	1970	1376	21874	25628	1940	1317	20838	24294	1930	1199	18799	21697	1920
0	-30	1582	26097	31191	1900	1405	22834	26905	1870	1346	21770	25522	1860	1228	19675	22834	1840
0	-20	1609	28851	34696	1850	1432	25259	29927	1820	1373	24089	28398	1810	1255	21791	25446	1790
0	-10	1635	35181	42500	1830	1457	30746	36586	1790	1398	29314	34711	1780	1280	26495	31065	1760
0	0	1659	46031	55765	1850	1482	40037	47791	1800	1422	38113	45257	1790	1304	34367	40404	1760
0	10	1682	64236	77878	1920	1505	55318	66081	1850	1446	52501	62422	1830	1328	47079	55414	1790
0	20	1707	107467	129968	2170	1530	89868	107049	2040	1471	84559	100237	2010	1353	74646	87597	1930
0	23					1538	115904	152287	2210	1479	108220	132234	2160	1361	94253	110251	2060
1	-54	1484	21999	25679	2070	1307	19126	22024	2040	1248	18187	20842	2030	1130	16334	18551	2010
0	-50	1496	22089	25851	2030	1319	19222	22190	2010	1260	18286	21021	2000	1142	16438	18714	1980
0	-40	1525	22107	26031	1950	1348	19293	22404	1920	1289	18372	21230	1910	1171	16557	18957	1890
0	-30	1553	22966	27195	1870	1376	20079	23445	1850	1317	19137	22235	1840	1199	17279	19876	1820
0	-20	1580	25179	29986	1820	1403	22039	25880	1790	1344	21014	24554	1780	1226	18995	21975	1760
0	-10	1605	30140	36075	1790	1428	26357	31075	1760	1369	25127	29480	1750	1250	22710	26401	1730
0	0	1628	38164	45840	1790	1451	33276	39392	1750	1392	31696	37323	1740	1274	28607	33367	1710
0	10	1652	50447	60718	1820	1474	43728	51866	1770	1415	41579	49100	1750	1297	37408	43732	1720
0	20	1674	74712	89822	1930	1497	63853	75670	1850	1438	60456	71303	1830	1320	53962	63059	1780
0	27	1691	124476	177994	2250	1514	102902	121033	2090	1455	96487	112970	2040	1337	84616	98168	1960
1	-54	1473	19336	22175	2040	1296	16821	19050	2020	1237	15997	18049	2010	1119	14369	16079	2000
0	-50	1484	19412	22322	2010	1307	16904	19206	1980	1248	16082	18190	1980	1130	14459	16218	1960
0	-40	1512	19437	22486	1920	1335	16970	19380	1900	1276	16162	18372	1890	1158	14564	16416	1880
0	-30	1533	20198	23566	1850	1356	17661	20332	1830	1297	16829	19284	1820	1179	15187	17250	1800
0	-20	1550	22110	26037	1790	1373	19338	22461	1770	1314	18431	21318	1760	1196	16641	19061	1740
0	-10	1574	26067	30857	1760	1397	22791	26597	1730	1338	21723	25245	1720	1220	19620	22581	1700
0	0	1597	32173	38238	1740	1420	28080	32912	1710	1361	26751	31208	1700	1243	24145	27902	1680
0	10	1620	40921	48827	1740	1443	35588	41854	1700	1384	33869	39653	1690	1266	30515	35381	1660
0	20	1642	56311	67234	1800	1465	48586	57194	1740	1405	46128	54049	1720	1287	41376	48026	1690
0	30	1664	101595	120174	2060	1487	85306	99581	1940	1428	80330	93379	1910	1310	70967	81780	1840
0	32					1492	105507	122808	2070	1433	98785	114496	2030	1315	86419	99302	1840
5	-54	1470	17026	19254	2020	1293	14830	16719	2000	1234	14108	15821	1990	1116	12681	14162	1980
0	-50	1481	17085	19450	1990	1304	14896	16799	1960	1245	14177	15902	1960	1127	12755	14247	1940
0	-40	1508	17101	19506	1900	1331	14949	16888	1880	1272	14242	16109	1870	1154	12843	14467	1860
0	-30	1530	17707	20262	1830	1352	15502	17576	1810	1293	14778	16667	1800	1175	13346	14990	1790
0	-20	1539	19287	22276	1770	1362	16882	19253	1750	1303	16094	18285	1740	1185	14535	16365	1730
0	-10	1542	22890	26591	1730	1365	19824	22923	1700	1306	18887	21736	1700	1188	17038	19436	1680
0	0	1566	27436	32301	1700	1388	23948	27824	1670	1329	22811	26380	1660	1211	20577	23573	1650
0	10	1587	33900	40078	1690	1410	29528	34442	1660	1351	28111	32640	1650	1233	25334	29129	1630
0	20	1608	44410	52630	1710	1431	38499	45000	1670	1372	36600	42572	1650	1254	32901	37917	1630
0	30	1627	70226	82820	1840	1450	60027	69863	1760	1391	56819	65863	1740	1273	50665	58217	1700
0	35	1639	113329	132914	2110	1462	94098	108982	1970	1403	88303	101800	1930	1285	77496	88602	1860
9	-54	1465	15072	17186	2000	1289	13140	14877	1980	1230	12505	14124	1980	1112	11246	12640	1960
0	-50	1478	15119	17252	1970	1301	13195	14970	1950	1242	12562	14192	1940	1124	11308	12713	1930
0	-40	1506	15125	17293	1880	1329	13238	15077	1860	1270	12616	14278	1860	1152	11383	12878	1850
0	-30	1528	15618	17935	1810	1350	13687	15546	1790	1291	13052	14843	1790	1173	11793	13348	1770
0	-20	1535	16879	19322	1750	1358	14792	16880	1730	1299	14106	16007	1720	1181	12748	14404	1710
0	-10	1525	19678	22651	1700	1347	17198	19552	1680	1288	16384	18545	1680	1170	14777	16602	1660
0	0	1531	23600	27492	1670	1354	20586	23672	1650	1295	19601	22436	1640	1177	17659	20028	1620
0	10	1553	28512	33377	1650	1376	24842	28693	1620	1317	23647	27191	1610	1198	21299	24269	1590
0	20	1574	36049	42338	1650	1396	31319	36291	1610	1337	29788	34346	1600	1219	26795	30624	1580
0	30	1593	52480	61533	1710	1416	45221	52339	1660	1357	42904	49438	1640	1239	38411	43867	1610
0	35	1602	74500	87106	1840	1424	63326	73128	1760	1365	59829	68795	1730	1247	53142	60573	1690
8	-54	1464	13394	15373	1990	1287	11686	13332	1970	1228	11124	12665	1960	1110	10008	11353	1950
5	-50	1475	13432	15449	1950	1298	11731	13409	1930	1239	11170	12743	1930	1121	10059	11432	1920
0	-40	1502	13438	15529	1870	1325	11767	13510	1850	1266	11216	12851	1850	1148	10123	11554	1840
0	-30	1523	13837	15977	1790	1345	12135	13892	1780	1286	11574	13235	1770	1168	10463	11908	1760
0	-20	1531	14857	17187	1730	1354	13032	14903	1710	1295	12430	14234	1710	1177	11239	12805	1700
0	-10	1520	17071	19614	1680	1342	14936	17000	1660	1283	14235	16114	1660	1165	12848	14483	1650
0	0	1504	20326	23818	1650	1327	17722	20483	1620	1268	16868	19416	1620	1150	15184	17307	1600
0	10	1516	24240	28662	1620	1339	21105	24594	1590	1280	20081	23302	1580	1162	18065	20756	1570
0	20	1537	29836	35404	1600	1360	25934	30340	1570	1301	24666	28718	1560	1182	22176	25571	1550
0	30	1555	41059</														



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

**FLAPS - 15°  
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	1610	39877	48403	2230	1433	34659	41434	2180	1374	32978	39229	2160	1256	29697	34954	2130
	-50	1623	40545	49460	2200	1446	35253	42322	2150	1387	33550	40075	2130	1268	30227	35721	2100
	-40	1655	40472	49685	2100	1478	35292	42654	2050	1419	33623	40431	2040	1300	30366	36120	2010
	-30	1685	43974	54256	2050	1508	38365	46588	2000	1449	36562	44151	1980	1331	33048	39483	1950
	-20	1714	53185	65809	2040	1536	46238	56324	1980	1477	44022	53368	1960	1359	39726	47643	1930
	-10	1740	75168	93039	2140	1563	64520	78618	2060	1504	61192	74176	2030	1386	54835	65802	1980
1 2 3 7 5	0	1769	142320	183746	2590	1592	115447	141183	2380	1533	107924	130747	2320	1415	94210	112622	2210
	1	1772	165004	214258	2760	1594	125513	156585	2450	1535	116827	143343	2380	1417	101332	121376	2260
	3					1601	167502	213950	2760	1542	148776	187526	2610	1424	121069	149838	2400
	7					1424	32800	39133	2160	1365	31214	37034	2150	1247	28114	33023	2120
	5					1437	33334	39936	2130	1378	31729	37800	2110	1259	28594	33721	2080
	0					1468	33370	40225	2040	1409	31797	38133	2020	1291	28725	34075	1990
1 2 3 7 0 0	-54	1601	37713	45688	2210	1424	32800	39133	2160	1365	31214	37034	2150	1247	28114	33023	2120
	-50	1614	38310	46615	2180	1437	33334	39936	2130	1378	31729	37800	2110	1259	28594	33721	2080
	-40	1645	38241	46825	2080	1468	33370	40225	2040	1409	31797	38133	2020	1291	28725	34075	1990
	-30	1675	41392	50927	2020	1498	36145	43788	1980	1439	34454	41529	1960	1321	31155	37151	1930
	-20	1704	49561	61209	2010	1527	43157	52486	1960	1468	41107	49723	1940	1350	37125	44444	1910
	-10	1731	68332	84444	2090	1553	58891	71674	2010	1494	55920	67693	1990	1376	50218	60160	1940
1 2 3 7 0 0	0	1758	118759	146836	2410	1581	98675	119733	2250	1522	92719	111919	2200	1404	81705	97556	2120
	1	1767	159875	206809	2700	1590	123379	153021	2420	1531	114915	140297	2350	1412	99771	119214	2230
	3					1539	179319	230581	2820	1539	179319	230581	2820	1421	137136	171044	2500
	7					1413	30850	36681	2140	1354	29362	34737	2130	1236	26451	30980	2100
	0					1426	31326	37400	2110	1367	29822	35425	2090	1249	26881	31588	2070
	0					1458	31359	37666	2020	1399	29885	35713	2000	1281	27002	31937	1980
1 2 3 7 0 0	-54	1591	35451	42802	2190	1413	30850	36681	2140	1354	29362	34737	2130	1236	26451	30980	2100
	-50	1603	35979	43627	2150	1426	31326	37400	2110	1367	29822	35425	2090	1249	26881	31588	2070
	-40	1635	35914	43821	2060	1458	31359	37666	2020	1399	29885	35713	2000	1281	27002	31937	1980
	-30	1665	38719	47485	2000	1488	33839	40859	1960	1428	32263	38760	1940	1310	29183	34682	1910
	-20	1693	45891	56512	1980	1516	40021	48521	1930	1457	38136	45983	1910	1338	34466	41125	1880
	-10	1719	61777	76172	2030	1542	53432	64888	1970	1483	50790	61338	1940	1365	45698	54629	1900
1 2 3 7 0 0	0	1746	100389	123518	2260	1569	84633	102511	2140	1510	79842	96240	2100	1392	70852	84513	2030
	1	1763	174966	228895	2790	1586	128229	161747	2430	1527	119128	147108	2360	1409	103052	123420	2230
	3					1592	198655	264259	2930	1533	163084	212051	2680	1415	125360	158807	2390
	7					1403	29065	34476	2130	1344	27666	32652	2110	1226	24923	29103	2080
	0					1416	29491	35103	2090	1357	28078	33252	2080	1239	25308	29666	2050
	0					1448	29522	35371	2000	1389	28137	33540	1990	1271	25425	29995	1960
1 1 8 0 0	-54	1580	33386	40192	2170	1403	29065	34476	2130	1344	27666	32652	2110	1226	24923	29103	2080
	-50	1593	33855	40930	2130	1416	29491	35103	2090	1357	28078	33252	2080	1239	25308	29666	2050
	-40	1626	33794	41109	2040	1448	29522	35371	2000	1389	28137	33540	1990	1271	25425	29995	1960
	-30	1654	36303	44400	1980	1476	31748	38225	1940	1417	30274	36265	1920	1299	27389	32474	1900
	-20	1682	42641	52373	1950	1504	37230	45011	1910	1445	35487	42693	1890	1327	32090	38198	1860
	-10	1708	56245	69225	1990	1531	48783	59109	1930	1472	46409	55943	1910	1354	41815	49883	1870
1 1 8 0 0	0	1733	86931	106853	2160	1556	73976	89522	2050	1497	69975	84239	2020	1379	62391	74344	1960
	1	1756	158002	209630	2640	1579	120730	150362	2350	1520	112517	137128	2290	1402	97812	116366	2180
	3					1585	172458	233549	2730	1526	145454	192592	2520	1408	114021	145538	2280
	7					1410	30850	36681	2140	1354	29362	34737	2130	1236	26451	30980	2100
	0					1426	31326	37400	2110	1367	29822	35425	2090	1249	26881	31588	2070
	0					1458	31359	37666	2020	1399	29885	35713	2000	1281	27002	31937	1980
1 1 6 0 0	-54	1570	31492	37767	2150	1392	27425	32406	2110	1333	26105	30693	2100	1215	23516	27372	2070
	-50	1582	31911	38430	2110	1405	27807	32989	2070	1346	26476	31252	2060	1228	23867	27887	2040
	-40	1613	31852	38616	2020	1436	27834	33217	1980	1377	26530	31499	1970	1259	23973	28171	1950
	-30	1642	34107	41557	1960	1465	29841	35793	1920	1406	28458	33961	1910	1288	25749	30414	1880
	-20	1670	39739	48629	1930	1493	34728	41851	1890	1434	33111	39704	1870	1316	29951	35535	1840
	-10	1696	51504	63189	1950	1519	44768	54113	1900	1460	42616	51242	1880	1342	38440	45733	1840
1 1 6 0 0	0	1721	76416	93725	2070	1544	65465	79090	1990	1485	62044	74583	1960	1367	55514	66053	1910
	1	1749	140317	189712	2480	1572	114050	139425	2290	1513	106568	128386	2230	1395	92923	110312	2130
	3	1751	182862	258156	2800	1574	123467	159202	2350	1515	114921	142958	2280	1397	99639	118775	2170
	7					1382	25911	30534	2090	1323	24663	28919	2080	1205	22215	25788	2060
	0					1394	26254	31061	2060	1335	24999	29427	2050	1217	22534	26256	2020
	0					1425	26280	31274	1970	1366	25050	29657	1960	1248	22633	26520	1940
1 1 4 0 0	-54	1559	29748	35579	2130	1382	25911	30534	2090	1323	24663	28919	2080	1205	22215	25788	2060
	-50	1571	30123	36177	2100	1394	26254	31061	2060	1335	24999	29427	2050	1217	22534	26256	2020
	-40	1602	30068	36328	2010	1425	26280	31274	1970	1366	25050	29657	1960	1248	22633	26520	1940
	-30	1631	32101	38986	1940	1454	28095	33609	1900	1395	26795	31890	1890	1277	24243	28558	1870
	-20	1659	37130	45313	1910	1482	32471	39022	1870	1423	30964	37025	1850	1304	28016	33142	1830



MODEL 525A

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

FLAPS - 15°  
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
1000	-54	1509	23365	27487	2070	1332	20342	23601	2040	1273	19354	22346	2030	1155	17408	19903	2010
	-50	1521	23605	27857	2030	1344	20568	23935	2000	1285	19576	22668	2000	1167	17623	20218	1980
	-40	1551	23560	27977	1950	1374	20586	24085	1920	1315	19614	22849	1910	1197	17700	20412	1890
	-30	1579	24891	29704	1880	1402	21787	25632	1850	1343	20773	24318	1840	1225	18778	21760	1820
	-20	1606	28081	33686	1830	1428	24588	29063	1800	1369	23450	27580	1790	1251	21213	24698	1770
	-10	1631	34108	41113	1810	1453	29817	35403	1770	1394	28425	33587	1760	1276	25699	30068	1740
	0	1657	44501	53770	1820	1480	38732	46112	1780	1420	36878	43702	1760	1302	33264	39030	1730
	10	1678	61309	74237	1890	1501	52880	63080	1820	1442	50211	59613	1800	1324	45064	52960	1760
	20	1702	101673	122614	2120	1525	85435	101533	2000	1466	80496	95232	1960	1348	71227	83444	1890
	23	1710	130031	216748	2300	1533	106996	126756	2130	1474	100221	118142	2080	1356	87759	102469	1990
1500	-54	1493	20485	23753	2040	1316	17838	20414	2010	1257	16972	19332	2010	1139	15261	17234	1990
	-50	1503	20686	24063	2010	1326	18028	20694	1980	1267	17158	19602	1970	1149	15441	17487	1960
	-40	1531	20657	24163	1920	1354	18052	20831	1890	1295	17199	19766	1890	1177	15514	17658	1870
	-30	1549	21857	25809	1850	1372	19117	22260	1830	1313	18220	21126	1820	1195	16451	18887	1800
	-20	1575	24420	28997	1800	1398	21375	25013	1770	1339	20380	23748	1760	1221	18420	21252	1750
	-10	1599	29126	34745	1770	1422	25474	29954	1740	1363	24285	28418	1730	1245	21949	25434	1710
	0	1623	36775	44029	1760	1446	32067	37843	1720	1387	30558	35892	1710	1269	27584	33074	1690
	10	1646	48088	57753	1790	1469	41725	49379	1740	1410	39685	46759	1720	1292	35722	41666	1690
	20	1668	70912	85015	1890	1491	60751	71818	1820	1432	57558	67716	1790	1314	51437	59955	1750
	28	1687	120875	150741	2200	1510	100310	117619	2050	1451	94154	109894	2010	1333	82718	95667	1920
2000	-54	1489	17943	20435	2020	1312	15647	17663	1990	1253	14893	16727	1990	1134	13403	14995	1970
	-50	1528	18075	20635	1890	1351	15817	17886	1870	1292	15076	17069	1870	1174	13611	15351	1850
	-40	1542	19041	21982	1820	1365	16675	19008	1800	1306	15899	18056	1800	1188	14364	16166	1780
	-30	1544	21355	25063	1770	1367	18675	21622	1750	1308	17798	20508	1740	1189	16066	18347	1730
	-20	1567	25102	29629	1730	1390	21948	25541	1710	1331	20918	24226	1700	1213	18889	21682	1680
	-10	1590	30893	36614	1720	1413	26978	31533	1690	1354	25693	29893	1680	1258	23189	26727	1660
	0	1613	38925	46298	1720	1435	33873	39732	1680	1376	32242	37649	1670	1258	29056	33601	1640
	10	1634	53432	63611	1760	1457	46164	54182	1710	1398	43845	51221	1690	1280	39354	45567	1660
	20	1656	94152	111214	1990	1478	79409	92596	1890	1419	74871	86926	1860	1301	66292	76313	1800
	32	1660	119286	146040	2160	1483	98816	114959	2010	1424	92686	107344	1970	1306	81294	93349	1890
33					1486	112926	166525	2100	1427	105480	126104	2050	1309	91838	105304	1960	
2500	-54	1486	15817	18076	1990	1308	13807	15615	1980	1249	13146	14886	1970	1131	11838	13345	1960
	-50	1496	15943	18215	1960	1319	13930	15861	1940	1260	13268	15020	1930	1142	11957	13475	1920
	-40	1524	15919	18230	1870	1347	13945	15914	1860	1288	13296	15083	1850	1170	12011	13561	1840
	-30	1539	16687	19137	1800	1362	14630	16725	1790	1303	13954	15862	1780	1185	12615	14278	1770
	-20	1539	18497	21186	1750	1362	16200	18395	1730	1303	15445	17450	1720	1185	13954	15706	1710
	-10	1533	21781	25417	1710	1356	19024	21910	1680	1297	18122	20774	1680	1179	16342	18558	1660
	0	1556	26262	30790	1680	1378	22921	26509	1650	1319	21832	25133	1640	1201	19687	22455	1630
	10	1577	32182	37888	1660	1400	28038	32571	1630	1341	26693	30868	1620	1223	24054	27566	1600
	20	1599	42095	49662	1680	1422	36517	42518	1640	1363	34721	40232	1630	1245	31220	35843	1600
	30	1619	65481	77018	1790	1441	56077	65111	1720	1382	53112	61385	1700	1264	47409	54309	1660
33	1624	84587	99279	1910	1447	71569	82913	1820	1388	67531	77920	1790	1270	59849	68452	1730	
3000	-54	1482	14006	16031	1980	1305	12236	13924	1960	1246	11653	13230	1950	1128	10498	11865	1940
	-50	1493	14108	16207	1940	1316	12337	14057	1930	1257	11754	13373	1920	1139	10598	12002	1910
	-40	1521	14086	16257	1860	1343	12350	14148	1840	1284	11778	13460	1840	1166	10644	12104	1830
	-30	1535	14704	17042	1790	1358	12903	14781	1770	1299	12310	14120	1770	1180	11134	12707	1750
	-20	1535	16145	18594	1730	1358	14158	16137	1710	1299	13500	15407	1710	1180	12203	13866	1690
	-10	1523	18739	21807	1680	1346	16384	18814	1660	1287	15611	17856	1660	1169	14083	15956	1640
	0	1519	22517	26652	1650	1342	19632	22898	1630	1283	18689	21689	1620	1165	16829	19350	1610
	10	1541	27002	32111	1630	1364	23522	27569	1600	1305	22390	26113	1590	1186	20158	23279	1570
	20	1561	34101	40649	1620	1384	29636	34836	1590	1325	28188	32957	1580	1207	25350	29359	1560
	30	1580	49031	58338	1670	1403	42291	49641	1630	1344	40133	46883	1610	1226	35942	41582	1580
33	1586	59545	70752	1730	1408	51033	59823	1670	1349	48333	56378	1650	1231	43124	49847	1620	

Figure 4-32 (Sheet 22)



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

**FLAPS - 15°  
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	1636	45208	55306	2270	1459	39235	47252	2210	1400	37320	44699	2190	1282	33595	39815	2150
	-50	1650	46265	56848	2240	1472	40159	48545	2180	1413	38202	45951	2160	1295	34402	40943	2120
	-40	1682	46033	56915	2140	1505	40082	48774	2080	1446	38173	46193	2060	1328	34462	41258	2030
	-30	1713	51154	63497	2090	1536	44522	54385	2030	1476	42403	51515	2020	1358	38290	46036	1980
	-20	1741	66128	82263	2140	1564	57118	69947	2060	1505	54276	66101	2040	1387	48816	58817	1990
1 2 0 0 0	-10	1770	103655	128866	2360	1592	87234	106704	2220	1533	82272	100050	2180	1415	72991	87827	2110
	-5	1785	159519	208859	2760	1608	123344	153819	2470	1549	114951	141005	2400	1431	99936	120001	2280
	-3					1614	164369	211513	2780	1555	146233	185699	2630	1437	119296	148678	2420
	0					1450	36929	44374	2190	1391	35136	42010	2170	1273	31654	37447	2140
						1463	37750	45532	2150	1404	35923	43112	2140	1286	32366	38431	2100
1 2 0 0 0	-40	1673	43233	53312	2110	1495	37686	45756	2060	1436	35903	43346	2040	1318	32429	38731	2010
	-30	1703	47774	59175	2060	1525	41641	50746	2010	1466	39674	48111	1990	1348	35852	43020	1960
	-20	1732	60735	75433	2090	1554	52614	64300	2020	1495	50040	60841	2000	1377	45075	54235	1960
	-10	1759	91174	113192	2260	1582	77447	94616	2150	1523	73231	88998	2110	1405	65272	78475	2050
	0	1780	156867	204388	2720	1603	122298	151940	2440	1544	114006	139443	2380	1426	99144	118844	2260
1 2 0 0 0	0					1612	207396	275205	3080	1553	173842	222688	2820	1435	135651	168979	2520
	-54	1617	39716	48310	2210	1440	34539	41373	2160	1381	32870	39178	2150	1262	29615	34924	2110
	-50	1630	40535	49497	2180	1453	35263	42400	2130	1393	33566	40157	2110	1275	30257	35811	2080
	-40	1662	40360	49614	2090	1485	35211	42590	2040	1426	33553	40380	2020	1308	30320	36094	1990
	-30	1692	44336	54744	2030	1515	38696	47028	1980	1456	36882	44576	1970	1338	33350	39879	1940
1 2 0 0 0	-20	1720	55446	68644	2050	1543	48159	58708	1980	1484	45839	55586	1960	1366	41347	49608	1930
	-10	1747	79957	99057	2170	1570	68436	83424	2070	1511	64854	78659	2040	1393	58031	69660	1990
	0	1776	171700	224099	2800	1599	128207	161181	2460	1540	119199	147113	2390	1422	103210	124026	2270
	2					1605	177827	229014	2830	1546	156128	197734	2660	1428	125715	155920	2420
	5					1429	32376	38651	2140	1370	30817	36607	2130	1252	27772	32639	2100
1 1 8 0 0	-50	1619	37921	46152	2160	1442	33018	39565	2110	1383	31436	37480	2090	1265	28345	33432	2060
	-40	1651	37759	46234	2060	1474	32974	39747	2020	1415	31429	37692	2000	1297	28408	33720	1980
	-30	1681	41275	50786	2010	1504	36063	43668	1960	1445	34383	41426	1950	1326	31105	37075	1920
	-20	1709	50893	62830	2010	1532	44297	53832	1950	1473	42187	51024	1930	1355	38094	45577	1900
	-10	1736	71061	87798	2090	1559	61155	74400	2010	1500	58046	70246	1990	1381	52089	62395	1940
1 1 6 0 0	0	1764	126597	157926	2450	1587	104440	126804	2280	1528	97952	118283	2230	1410	86040	102773	2130
	2	1769	156790	202879	2670	1592	122190	151173	2400	1533	113857	138754	2330	1415	98927	118178	2220
	5					1418	30407	36193	2120	1359	28947	34283	2110	1241	26090	30588	2080
	8					1431	30980	37013	2090	1372	29499	35066	2080	1254	26604	31303	2050
						1463	30943	37209	2000	1404	29497	35268	1990	1286	26666	31555	1960
1 1 4 0 0	-30	1669	38532	47263	1980	1492	33695	40691	1940	1433	32132	38608	1930	1315	29077	34562	1900
	-20	1697	46926	57781	1970	1520	40912	49602	1920	1461	38982	47033	1910	1343	35228	42039	1880
	-10	1724	63807	78700	2040	1547	55137	66957	1960	1488	52396	63315	1940	1370	47121	56341	1900
	0	1751	105146	129530	2280	1574	88312	107058	2150	1515	83228	100375	2110	1397	73723	87967	2040
	5	1765	168503	221594	2730	1588	125598	157899	2400	1529	116850	143937	2330	1411	101260	121183	2210
1 1 0 0 0	8					1406	28608	33942	2100	1347	27236	32153	2090	1229	24549	28690	2070
	-54	1582	32838	39546	2150	1420	29121	34679	2070	1361	27732	32859	2060	1243	25011	29317	2030
	-50	1597	33408	40386	2110	1451	29090	34844	1980	1392	27733	33049	1970	1274	25074	29573	1940
	-40	1629	33276	40467	2020	1481	31552	37965	1920	1422	30093	36026	1910	1304	27238	32276	1880
	-30	1658	36059	44070	1960	1509	37919	45843	1900	1450	36144	43457	1880	1332	32682	38884	1850
1 1 0 0 0	-20	1686	43437	53311	1940	1535	50067	60635	1920	1476	47623	57382	1900	1358	42897	51158	1870
	-10	1712	57760	71042	1990	1561	76419	92475	2060	1502	72242	86974	2030	1383	64343	76691	1960
	0	1738	89994	110627	2160	1583	128118	166330	2390	1524	119053	149633	2320	1406	102963	123619	2200
	8	1760	190802	261746	2870									1412	130674	171146	2390
	10					1385	25435	29971	2070	1326	24216	28393	2060	1208	21822	25329	2040
1 1 0 0 0	-50	1575	29641	35584	2080	1398	25851	30573	2040	1339	24619	28969	2030	1221	22202	25860	2010
	-40	1606	29532	35659	1990	1429	25830	30720	1950	1370	24626	29138	1940	1251	22261	26070	1920
	-30	1635	31773	38552	1920	1458	27824	33256	1890	1399	26541	31561	1880	1281	24024	28277	1850
	-20	1662	37575	45823	1900	1485	32861	39465	1860	1426	31336	37448	1840	1308	28354	33526	1820
	-10	1688	48220	58983	1910	1511	41977	50582	1860	1452	39975	47917	1840	1334	36086	42820	1810
1 1 0 0 0	0	1713	69349	84890	2000	1536	59654	71923	1930	1477	56606	67895	1900	1359	50759	60274	1860
	10	1740	118146	145206	2300	1563	98023	118139	2150	1504	92055	110329	2100	1386	81021	96115	2020
	13					1570	122403	159894	2310	1511	113967	142409	2240	1393	98859	117518	2130

525AFM-06-01

Figure 4-32 (Sheet 23)



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

**FLAPS - 15°  
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	1534	25368	30048	2070	1357	22107	25804	2040	1298	21043	24457	2030	1180	18950	22187	2010
	-50	1546	25722	30579	2040	1369	22433	26277	2010	1310	21361	24896	2000	1192	19251	22213	1980
	-40	1576	25633	30643	1950	1399	22415	26398	1920	1340	21371	25041	1910	1222	19307	22409	1890
	-30	1605	27376	32899	1880	1428	23979	28389	1850	1369	22872	26942	1840	1251	20694	24130	1830
	-20	1632	31790	38398	1850	1455	27832	33104	1810	1395	26546	31418	1800	1277	24023	28148	1780
	-10	1657	39472	47866	1840	1480	34465	41180	1800	1421	32849	39037	1780	1303	29691	34943	1760
	0	1682	53213	64673	1880	1504	46153	55269	1820	1445	43900	52308	1800	1327	39534	46629	1770
	10	1706	78513	95506	2000	1529	67056	80352	1910	1470	63489	75711	1890	1351	56690	66938	1840
	19					1553	116313	150763	2210	1494	108620	132106	2160	1376	94649	111167	2060
	20													1378	102667	124708	2110
1000	-54	1505	22204	26043	2040	1328	19337	22369	2010	1269	18399	21181	2010	1151	16551	18881	1990
	-50	1517	22486	26466	2010	1340	19599	22749	1980	1281	18655	21548	1970	1162	16795	19209	1950
	-40	1546	22415	26523	1920	1369	19593	22859	1890	1310	18670	21674	1890	1192	16849	19380	1870
	-30	1574	23803	28300	1850	1397	20841	24431	1830	1338	19873	23181	1820	1219	17965	20761	1800
	-20	1600	27259	32599	1810	1423	23870	28130	1780	1364	22765	26696	1770	1246	20592	23909	1750
	-10	1625	33046	39692	1790	1448	28895	34213	1750	1389	27549	32461	1740	1271	24908	29045	1720
	0	1649	42663	51416	1800	1472	37158	44149	1750	1413	35385	41824	1740	1295	31928	37365	1710
	10	1673	58202	70318	1850	1496	50284	59840	1790	1437	47768	56576	1770	1318	42910	50331	1730
	20	1696	93510	112482	2040	1519	79074	93757	1940	1460	74637	88082	1900	1342	66256	77439	1840
	25					1533	112254	138923	2140	1474	105045	124626	2090	1355	91820	106795	1990
9500	-54	1498	19318	22177	2010	1321	16845	18099	1990	1262	16035	18099	1980	1144	14434	16160	1970
	-50	1507	19555	22525	1980	1330	17064	19408	1960	1271	16248	18411	1950	1153	14636	16447	1930
	-40	1537	19503	22592	1890	1360	17065	19516	1870	1301	16266	18517	1860	1183	14688	16580	1850
	-30	1550	20764	24338	1830	1373	18176	21019	1800	1314	17328	19943	1800	1196	15654	17857	1780
	-20	1568	23618	27913	1780	1391	20671	24097	1750	1332	19707	22862	1740	1214	17808	20473	1730
	-10	1592	28110	33403	1750	1415	24586	28803	1720	1356	23438	27327	1710	1238	21181	24459	1690
	0	1616	35158	41937	1740	1439	30678	36071	1700	1380	29227	34205	1690	1262	26386	30591	1670
	10	1639	45608	54577	1750	1462	39611	46734	1710	1403	37685	44240	1690	1285	33938	39644	1670
	20	1661	65883	78729	1840	1484	56805	66718	1770	1425	53677	62958	1750	1306	48044	55823	1710
	29					1506	104596	122336	2060	1446	98020	114146	2010	1328	85860	99070	1930
30													1330	97651	114534	2000	
9000	-54	1495	16911	19297	1990	1318	14765	16687	1970	1259	14060	15910	1960	1141	12665	14273	1950
	-50	1505	17098	19496	1960	1328	14939	16985	1940	1269	14230	16091	1930	1151	12828	14446	1920
	-40	1534	17054	19621	1870	1357	14941	17026	1850	1298	14246	16145	1850	1180	12873	14527	1830
	-30	1546	18040	20745	1800	1369	15813	18022	1780	1310	15081	17099	1780	1191	13635	15399	1760
	-20	1543	20482	23861	1750	1366	17922	20606	1730	1307	17083	19550	1720	1189	15425	17503	1710
	-10	1558	24136	28367	1710	1381	21098	24468	1690	1322	20106	23208	1680	1204	18150	20752	1670
	0	1581	29455	34782	1690	1404	25715	29950	1660	1345	24498	28401	1650	1227	22107	25392	1630
	10	1603	36866	43708	1690	1426	32096	37528	1650	1367	30554	35565	1640	1249	27538	31745	1620
	20	1625	49851	59142	1720	1448	43138	50476	1680	1388	40990	47738	1660	1270	36819	42499	1630
	30	1645	88204	104062	1940	1468	74592	86872	1840	1409	70382	81601	1810	1291	62399	71712	1760
31	1648	98181	115726	2000	1471	82462	95955	1890	1412	77650	89936	1860	1294	68584	78747	1790	
8500	-54	1491	14889	17040	1970	1314	13011	14835	1950	1255	12394	14041	1950	1137	11170	12691	1930
	-50	1501	15039	17326	1940	1324	13153	14986	1920	1265	12532	14298	1910	1147	11303	12834	1900
	-40	1530	15000	17328	1850	1352	13154	15023	1840	1293	12547	14348	1830	1175	11343	12907	1820
	-30	1541	15784	18248	1780	1364	13849	15841	1770	1305	13213	15133	1760	1187	11952	13627	1750
	-20	1538	17693	20459	1730	1361	15501	17709	1710	1302	14781	16810	1700	1183	13357	15113	1690
	-10	1526	20802	24583	1690	1349	18169	21171	1670	1290	17307	20066	1660	1172	15605	17925	1640
	0	1544	24967	29718	1660	1367	21784	25550	1630	1308	20745	24226	1620	1190	18700	21620	1610
	10	1566	30419	36365	1640	1389	26502	31228	1610	1329	25229	29583	1600	1211	22731	26393	1580
	20	1586	39325	47075	1650	1409	34139	40290	1610	1350	32465	38138	1600	1232	29196	33959	1570
	30	1606	61416	73270	1750	1429	52675	61997	1690	1370	49906	58447	1670	1251	44568	51723	1630
31	1608	66306	79056	1780	1430	56694	66688	1710	1371	53663	62820	1690	1253	47837	55481	1650	

525AFM-09-01



Figure 4-32 (Sheet 24)



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

**FLAPS - 15°  
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 2 3 7 5	-54	1663	53134	65580	2330	1486	45939	55761	2260	1427	43652	52695	2230	1309	39229	46835	2190
	-50	1677	53609	66370	2290	1500	46389	56477	2220	1441	44093	53387	2200	1323	39656	47485	2160
	-40	1710	54472	67826	2200	1533	47256	57860	2130	1474	44961	54748	2110	1355	40523	48797	2070
	-30	1741	60768	75888	2160	1564	52662	64722	2090	1505	50096	61211	2070	1387	45146	54577	2030
	-20	1770	87439	109288	2300	1593	74512	91630	2190	1534	70529	86261	2160	1416	63009	76205	2090
	-11	1798	163417	216136	2830	1621	124876	157177	2520	1582	116236	143780	2450	1444	100886	121995	2330
1 2 2 0 0 0	-10	1801	200798	273408	3120	1624	137603	177215	2610	1565	125990	159678	2520	1447	108491	132464	2380
	-9					1628	161261	209729	2790	1569	143314	183782	2650	1451	117637	147211	2440
	-54	1654	49504	60895	2290	1477	42882	51894	2230	1418	40767	49091	2210	1300	36671	43669	2170
	-50	1668	49919	61594	2250	1490	43278	52532	2190	1431	41159	49684	2170	1313	37052	44254	2130
	-40	1700	50678	62894	2160	1523	44048	53775	2100	1464	41931	50907	2080	1346	37828	45439	2050
	-30	1731	56143	69940	2120	1554	48772	59776	2060	1495	46427	56598	2040	1377	41892	50519	2000
1 2 0 0 0	-20	1760	78306	97653	2220	1583	67143	82394	2130	1524	63668	77686	2100	1406	57043	68869	2040
	-10	1791	137588	177591	2610	1613	112277	138106	2410	1554	105042	128039	2350	1436	91925	110762	2250
	-9	1793	153747	202350	2730	1616	120908	150548	2470	1557	112750	138370	2400	1439	98147	118247	2290
	-6					1626	203632	273284	3100	1567	170428	220384	2830	1448	133091	167150	2540
	-54	1643	45836	56246	2260	1466	39772	48032	2200	1407	37830	45433	2180	1289	34056	40466	2140
	-50	1657	46194	56830	2220	1480	40118	48570	2160	1420	38172	45957	2140	1302	34392	40963	2110
1 1 8 0 0 0	-40	1689	46854	58014	2130	1512	40796	49680	2070	1453	38854	47050	2060	1335	35083	42027	2020
	-30	1720	51549	64050	2080	1543	44880	54874	2020	1484	42749	51984	2000	1366	38617	46473	1970
	-20	1749	69860	86963	2150	1571	60203	73766	2070	1512	57174	69676	2040	1394	51367	61945	2000
	-10	1778	112637	140213	2410	1600	94112	115160	2260	1541	88586	107796	2220	1423	78329	94266	2140
	-6	1790	167998	221409	2810	1612	126699	159591	2490	1553	117895	145781	2420	1435	102250	123269	2290
	-4					1619	176275	229092	2860	1560	154688	197527	2690	1442	124586	155633	2450
1 1 8 0 0 0	-54	1633	42591	52082	2220	1456	37006	44531	2170	1396	35211	42135	2150	1278	31718	37571	2120
	-50	1646	42901	52595	2190	1469	37305	45029	2130	1410	35514	42626	2120	1291	32018	38017	2080
	-40	1678	43479	53620	2100	1501	37910	46001	2050	1442	36120	43607	2030	1324	32634	38974	2000
	-30	1709	47549	58884	2050	1531	41470	50553	1990	1472	39521	47913	1980	1354	35730	42863	1940
	-20	1737	62906	78110	2090	1560	54435	66525	2020	1501	51755	62931	2000	1383	46595	56046	1960
	-10	1765	95702	118770	2280	1588	81040	98966	2160	1529	76564	93023	2120	1410	68138	81881	2050
1 1 6 0 0 0	-4	1783	154786	201929	2690	1606	121543	150820	2430	1547	113344	138474	2360	1429	98632	118271	2250
	0													1440	163050	205709	2710
	-54	1622	39695	48356	2200	1445	34527	41411	2150	1386	32862	39193	2130	1267	29614	34962	2100
	-50	1635	39967	48838	2160	1458	34796	41837	2110	1399	33131	39633	2090	1280	29881	35361	2060
	-40	1667	40476	49756	2070	1490	35330	42729	2020	1431	33672	40516	2010	1312	30436	36229	1980
	-30	1697	44031	54350	2020	1520	38454	46719	1970	1461	36661	44319	1950	1343	33166	39670	1920
1 1 4 0 0 0	-20	1725	57092	70682	2040	1548	49552	60386	1980	1489	47155	57167	1960	1371	42520	51007	1920
	-10	1752	83099	102888	2170	1575	70989	86512	2080	1516	67237	81534	2050	1398	60107	72116	1990
	0	1783	211796	286274	3090	1606	143280	182265	2560	1547	130006	163793	2460	1428	110852	135011	2310
	1					1608	173272	223181	2780	1549	152814	193708	2620	1431	123609	153444	2400
	-54	1611	37094	45060	2170	1434	32291	38618	2120	1374	30740	36556	2110	1256	27710	32617	2080
	-50	1624	37334	45466	2130	1447	32531	39000	2090	1387	30980	36952	2070	1269	27951	32978	2050
1 1 0 0 0	-40	1655	37784	46291	2050	1478	33008	39807	2000	1419	31473	37761	1990	1301	28451	33768	1960
	-30	1685	40910	50352	1990	1508	35767	43347	1940	1449	34109	41106	1930	1331	30870	36829	1900
	-20	1713	52140	64393	2000	1536	45360	55151	1950	1477	43194	52240	1930	1359	38995	46684	1890
	-10	1740	73247	90547	2100	1563	62963	76618	2010	1504	59743	72322	1990	1386	53581	64179	1940
	0	1769	135066	171431	2500	1592	110561	134607	2310	1533	103484	125028	2250	1414	90590	108269	2150
	1	1771	151708	196531	2620	1594	120052	148041	2370	1535	111974	136135	2310	1417	97449	116492	2200
1 1 0 0 0	-54	1588	32608	39332	2130	1411	28416	33743	2090	1352	27057	31967	2070	1234	24395	28529	2050
	-50	1601	32797	39658	2090	1424	28610	34075	2050	1365	27252	32293	2040	1247	24592	28826	2010
	-40	1632	33155	40332	2000	1455	28996	34722	1970	1396	27648	32939	1950	1278	25004	29485	1930
	-30	1662	35611	43526	1940	1485	31179	37541	1900	1426	29744	35611	1890	1308	26933	31918	1870
	-20	1689	44130	54191	1940	1512	38517	46569	1890	1453	36712	44145	1870	1335	33194	39500	1840
	-10	1716	58818	72347	1980	1539	50964	61734	1920	1480	48470	58419	1900	1361	43653	52050	1860
1 0 5 0 0	0	1742	92979	114346	2170	1564	78796	95383	2060	1505	74447	89668	2030	1387	66240	78964	1960
	7	1762	167038	224468	2680	1584	123566	156284	2350	1525	115047	141844	2280	1407	99817	119114	2170
	10													1416	154372	203132	2550
	-54	1559	28033	33479	2080	1382	24440	28757	2050	1323	23271	27244	2040	1205	20974	24309	2020
	-50	1572	28176	33732	2050	1395	24591	29001	2010	1336	23424	27486	2000	1218	21131	24546	1980
	-40	1602	28450	34265	1960	1425	24894	29534	1930	1366	23736	28018	1920	1248	21461	25076	1900
1 0 0 0	-30	1631	30311	36699	1900	1454	26560	31659	1860	1395	25341	30053	1850	1277	22945	26936	1830
	-20	1658	36571	44498	1870	1481	31993	38339	1830	1422	30511	36360	1820	1304	27611	32578	1800
	-10	1684	46580	56841	1880	1507	40579	48781	1830	1448	38654	46222	1820	1330	34906	41321	1790
	0	1709	66395	81136	1970	1532	57210	68883	1890	1473	54313	65054					



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

**FLAPS - 15°  
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
1000	-54	1530	24299	28723	2050	1352	21180	24671	2020	1293	20161	23369	2010	1175	18157	20852	1990
	-50	1540	24411	28921	2010	1363	21299	24866	1980	1304	20284	23563	1970	1187	18284	21044	1950
	-40	1572	24623	29328	1930	1395	21540	25295	1900	1336	20534	23993	1890	1217	18552	21460	1870
	-30	1600	26065	31219	1860	1423	22840	26952	1830	1364	21788	25582	1820	1246	19171	22934	1800
	-20	1626	30812	37091	1820	1449	26981	32006	1790	1390	25735	30378	1780	1272	23289	27218	1760
	-10	1652	38001	45942	1810	1475	33198	39547	1770	1416	31645	37517	1760	1298	28609	33571	1740
	0	1676	50870	61691	1850	1499	44168	52774	1790	1440	42025	49961	1780	1322	37867	44560	1740
	10	1700	73739	89560	1950	1523	63166	75588	1870	1464	59858	71241	1850	1346	53532	63075	1800
	20					1549	110876	134788	2150	1490	103764	122813	2100	1372	90757	106302	2010
	950	-54	1506	21127	24619	2020	1329	18413	21172	1990	1270	17525	20056	1980	1152	15773	17893
900	-50	1517	21227	24802	1980	1340	18518	21347	1960	1281	17632	20229	1950	1163	15882	18061	1930
	-40	1543	21432	25223	1900	1366	18740	21739	1870	1307	17859	20630	1860	1189	16121	18441	1850
	-30	1568	22620	26792	1830	1391	19809	23122	1800	1332	18889	21956	1800	1214	17076	19652	1780
	-20	1594	26328	31346	1790	1417	23055	27072	1760	1357	21988	25692	1750	1239	19886	23009	1730
	-10	1618	31728	37972	1760	1441	27751	32724	1730	1382	26459	31051	1720	1264	23924	27805	1700
	0	1642	40723	48903	1770	1465	35491	42020	1730	1406	33804	39815	1710	1288	30509	35581	1690
	10	1666	54847	66032	1810	1488	47462	56308	1750	1429	45109	53259	1740	1311	40554	47417	1700
	20	1689	84035	100781	1960	1512	71529	84577	1870	1452	67644	79632	1840	1334	60253	70259	1790
	26					1527	111353	136667	2110	1468	104237	122342	2060	1350	91167	105705	1970
	900	-54	1504	18326	20959	1990	1327	15996	18141	1970	1268	15232	17188	1960	1149	13721	15427
800	-50	1513	18403	21052	1950	1336	16078	18237	1930	1277	15316	17286	1920	1159	13808	15527	1910
	-40	1539	18558	21294	1870	1362	16251	18446	1850	1303	15494	17610	1840	1185	13998	15749	1830
	-30	1552	19581	22728	1800	1375	17158	19661	1780	1316	16364	18679	1770	1198	14794	16732	1760
	-20	1559	22732	26770	1760	1382	19890	23108	1730	1323	18961	21923	1730	1205	17128	19613	1710
	-10	1583	26908	31845	1720	1406	23534	27463	1700	1347	22434	26055	1690	1229	20270	23317	1670
	0	1606	33478	39791	1710	1429	29220	34257	1680	1370	27838	32467	1670	1252	25131	29037	1650
	10	1629	42990	51298	1720	1452	37369	43963	1680	1393	35560	41627	1670	1275	32034	37145	1640
	20	1651	60098	71592	1790	1474	51797	60873	1730	1415	49163	57522	1710	1297	44077	51080	1670
	29	1672	117426	141105	2130	1495	97512	113845	1990	1436	91529	106416	1950	1317	80397	92622	1870
	850	-54	1498	16015	18414	1970	1321	13994	15928	1950	1262	13330	15192	1940	1144	12015	13534
800	-50	1509	16075	18488	1930	1332	14060	16007	1910	1273	13397	15273	1910	1155	12086	13718	1890
	-40	1535	16194	18644	1850	1357	14197	16292	1830	1298	13540	15448	1830	1180	12240	13902	1810
	-30	1548	16994	19584	1780	1371	14909	17015	1760	1312	14224	16254	1760	1194	12867	14644	1740
	-20	1541	19550	22986	1730	1364	17112	19844	1710	1305	16313	18839	1700	1187	14733	16848	1690
	-10	1546	23029	27453	1690	1369	20123	23632	1670	1310	19173	22403	1660	1192	17300	20023	1650
	0	1569	27971	33491	1670	1392	24416	28806	1640	1333	23258	27304	1630	1215	20981	24385	1610
	10	1591	34715	41744	1660	1414	30233	35817	1630	1355	28781	33933	1610	1237	25937	30265	1590
	20	1613	45805	55067	1680	1435	39700	47051	1640	1376	37739	44503	1620	1258	33923	39620	1600
	29	1630	74908	89587	1840	1453	63826	75291	1760	1394	60357	70873	1730	1276	53722	62493	1690

525AFM-06-01



Figure 4-32 (Sheet 26)



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

**FLAPS - 15°  
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	1691	64792	80875	2420	1514	55586	68195	2330	1455	52702	64278	2300	1337	47179	56893	2250
	-50	1705	64729	81088	2380	1528	55602	68454	2290	1469	52732	64540	2260	1351	47262	57156	2210
	-40	1738	67240	84654	2300	1561	57857	71568	2210	1502	54916	67536	2180	1384	49289	59936	2130
	-30	1770	76428	96148	2280	1593	65607	81163	2190	1534	62238	76579	2160	1416	55814	67923	2100
	-20	1801	130186	166329	2630	1624	107019	132251	2440	1565	100310	123218	2390	1447	88078	106936	2290
1 2 0 0 0	-17	1811	191681	260850	3110	1634	134367	173512	2640	1575	124259	157056	2560	1457	107109	131057	2410
	-15					1641	192951	259853	3090	1582	163242	212549	2850	1464	128882	163013	2570
	-54	1682	59507	74023	2370	1505	51232	62651	2290	1446	48624	59139	2270	1327	43611	52433	2220
	-50	1695	59450	74217	2330	1518	51247	62887	2250	1459	48659	59354	2220	1341	43683	52698	2180
	-40	1729	61590	77261	2250	1551	53190	65601	2170	1492	50541	61998	2150	1374	45448	55114	2100
1 2 0 0 0	-30	1760	69313	87006	2220	1583	59772	73777	2140	1524	56778	69691	2110	1406	51040	61973	2060
	-20	1790	110297	138354	2470	1613	92344	113861	2320	1554	86979	106635	2280	1436	77012	93350	2190
	-15	1806	173761	232324	2940	1629	128747	163862	2570	1570	119590	149425	2500	1452	103479	125942	2370
	-12									1580	183277	241987	2980	1462	138604	175638	2620
	-54	1671	54343	67375	2320	1494	46934	57219	2250	1435	44584	54056	2230	1316	40048	48019	2180
1 2 0 0 0	-50	1684	54292	67515	2280	1507	46947	57401	2210	1448	44616	54250	2190	1330	40117	48235	2140
	-40	1717	56099	70162	2200	1540	48606	59747	2130	1481	46229	56514	2110	1363	41641	50342	2070
	-30	1749	62539	78251	2160	1572	54146	66650	2090	1513	51494	63056	2060	1394	46387	56174	2020
	-20	1778	94160	117772	2340	1601	79858	98248	2220	1542	75488	92341	2180	1424	67257	81392	2110
	-12	1803	176983	236441	2930	1626	129849	165598	2550	1587	120551	150777	2480	1449	104219	126713	2350
1 1 8 0 0	-10					1633	177900	234195	2910	1574	155206	200176	2730	1456	124419	156731	2490
	-9									1576	206697	280980	3130	1458	146923	186381	2660
	-54	1660	49908	61681	2280	1483	43209	52527	2210	1424	41074	49654	2190	1305	36940	44181	2150
	-50	1673	49862	61842	2240	1496	43222	52723	2170	1437	41104	49859	2150	1319	37004	44379	2110
	-40	1706	51406	64106	2150	1529	44652	54742	2090	1470	42500	51813	2070	1352	38330	46231	2040
1 1 6 0 0	-30	1737	58853	71006	2110	1560	49374	60672	2050	1501	46998	57412	2030	1383	42404	51242	1990
	-20	1766	82013	102384	2240	1589	70158	86173	2140	1530	66482	81244	2110	1411	59495	71917	2050
	-10	1796	155033	204311	2730	1619	121540	151916	2470	1560	113271	139430	2400	1442	98508	118994	2280
	-9	1799	187714	252232	2980	1622	133290	171320	2550	1563	123442	155309	2470	1445	106535	129588	2340
	-7					1629	204091	275969	3090	1570	170303	221145	2820	1452	132874	167370	2530
1 1 0 0 0	-54	1649	46049	56728	2240	1471	39945	48395	2180	1412	37991	45770	2160	1294	34200	40760	2130
	-50	1662	46008	56844	2200	1485	39956	48546	2140	1426	38020	45958	2120	1308	34258	40940	2090
	-40	1694	47340	58823	2120	1517	41202	50349	2060	1458	39237	47678	2040	1340	35422	42579	2010
	-30	1725	52000	64736	2070	1548	45268	55458	2010	1489	43118	52538	1990	1371	38951	46941	1960
	-20	1754	72509	90307	2160	1577	62406	76483	2070	1518	59241	72218	2050	1399	53184	64133	2000
1 1 4 0 0	-10	1783	120088	150338	2450	1606	99635	122130	2290	1547	93610	114081	2240	1429	82506	99436	2150
	-7	1792	164942	217789	2780	1615	125632	158042	2470	1556	116961	144514	2400	1438	101520	122405	2280
	-4									1585	193471	255770	2970	1447	143464	180754	2580
	-54	1637	42656	52328	2210	1460	37057	44729	2150	1401	35260	42344	2140	1283	31762	37732	2100
	-50	1651	42619	52434	2170	1474	37068	44893	2120	1414	35286	42491	2100	1296	31816	37897	2070
1 1 0 0 0	-40	1683	43778	54176	2080	1506	38161	46463	2030	1447	36357	44015	2020	1329	32846	39333	1990
	-30	1713	47803	59313	2030	1536	41692	50895	1980	1477	39733	48238	1960	1359	35926	43157	1930
	-20	1742	64844	80543	2090	1565	56058	68547	2020	1505	53285	64798	2000	1387	47949	57687	1950
	-10	1770	100275	124667	2300	1593	84597	103447	2170	1534	79842	97102	2130	1416	70926	85337	2060
	-4	1788	178115	236204	2850	1611	130266	165650	2480	1552	121018	150672	2410	1434	104703	126373	2280
1 1 0 0 0	-54	1615	36955	45019	2150	1437	32171	38578	2110	1378	30627	36518	2090	1260	27611	32584	2060
	-50	1628	36924	45107	2110	1450	32181	38694	2070	1391	30650	36664	2060	1273	27658	32724	2030
	-40	1659	37818	46456	2030	1482	33036	39943	1990	1423	31492	37880	1970	1305	28476	33878	1950
	-30	1689	40891	50394	1970	1512	35757	43390	1930	1453	34101	41148	1910	1335	30870	36850	1890
	-20	1717	53161	65671	2000	1540	46232	56233	1940	1481	44021	53263	1920	1363	39735	47567	1880
1 0 5 0 0	-10	1744	75228	93106	2100	1567	64581	78657	2010	1508	61255	74222	1980	1390	54901	65827	1930
	0	1773	142537	185278	2540	1596	115769	141858	2330	1537	108214	131196	2270	1418	94451	112922	2170
	1	1775	166113	218444	2710	1598	125580	157698	2400	1539	116885	144000	2330	1421	101384	121550	2210
	-54	1585	31319	37750	2100	1408	27301	32413	2060	1349	25998	30708	2050	1231	23443	27408	2020
	-50	1598	31294	37843	2060	1421	27310	32506	2020	1362	26018	30810	2010	1244	23483	27523	1990
1 0 0 0 0	-40	1629	31959	38867	1980	1452	27957	33464	1940	1393	26659	31746	1930	1275	24113	28418	1910
	-30	1658	34226	41777	1920	1481	29981	36028	1880	1422	28605	34200	1870	1304	25909	30662	1840
	-20	1686	42831	52460	1910	1509	37404	45107	1870	1450	35656	42791	1850	1332	32253	38305	1820
	-10	1712	56627	69559	1950	1535	49117	59409	1890	1476	46728	56233	1870	1358	42108	50155	1830
	0	1738	87861	107919	2120	1560	74733	90352	2010	1501	70684	85018	1980	1383	63013	74996	1920
8 10	8	1760	165936	221477	2640	1583	123595	156148	2320	1524	115050	141839	2260	1406	99788	119071	2140
	10					1589	191231	259930	2810	1530	157676	208821	2560	1412	119372	154637	2270

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Figure 4-32 (Sheet 27)