

NACA_2412_Low_Turbulence															
Mach: 0.06															
Reynold Number: 4000				Reynold Number: 6000				Reynold Number: 8000				Reynold Number: 10000			
Alpha	CL_Re 4000	CD_Re 4000	CI/Cd	CL_Re 6000	CD_Re 6000	CI/Cd	CL_Re 8000	CD_Re 8000	CI/Cd	CL_Re 10000	CD_Re 10000	CI/Cd			
0	-0.0172	0.08177	-0.278	-0.0241	0.05157	-0.467	-0.0296	0.04557	-0.650	-0.034	0.04153	-0.819			
1	0.0387	0.06327	0.612	0.0325	0.05327	0.610	0.0279	0.04744	0.586	0.0263	0.04385	0.558			
2	0.0953	0.06569	1.451	0.09	0.05553	1.509	0.0852	0.05028	1.714	0.0834	0.04654	1.792			
3	0.1508	0.06906	2.184	0.1464	0.05596	2.558	0.1433	0.05412	2.648	0.1411	0.05055	2.791			
4	0.204	0.07343	2.778	0.2004	0.06024	3.120	0.198	0.05901	3.355	0.1964	0.05561	3.532			
5	0.2544	0.07888	3.225	0.2513	0.07002	3.589	0.2496	0.06504	3.838	0.2484	0.06182	4.018			
6	0.3013	0.08546	3.526	0.2987	0.077	3.879	0.2973	0.07229	4.113	0.2963	0.06926	4.278			
7	0.3444	0.09323	3.694	0.342	0.08525	4.012	0.3405	0.08084	4.212	0.3396	0.07804	4.352			
8	0.3837	0.10222	3.754	0.3809	0.0948	4.018	0.3791	0.09073	4.178	0.3783	0.08825	4.287			
9	0.4196	0.11236	3.734	0.4159	0.10556	3.940	0.4138	0.10196	4.058	0.413	0.0998	4.138			
10	0.4528	0.12347	3.667	0.4482	0.11734	3.820	0.446	0.11431	3.902	0.445	0.11253	3.955			
11	0.4849	0.13532	3.583	0.4796	0.12993	3.691	0.4773	0.12749	3.744	0.4763	0.1261	3.777			
12	0.517	0.14768	3.501	0.5115	0.14308	3.575	0.5095	0.14117	3.609	0.5087	0.14019	3.629			
13	0.5503	0.16035	3.432	0.5451	0.15656	3.481	0.5434	0.15457	3.543	0.5431	0.15457	3.513			
14	0.585	0.17326	3.376	0.5804	0.17025	3.409	0.5792	0.16934	3.420	0.5792	0.16911	3.425			
15	0.6211	0.18633	3.333	0.6172	0.18413	3.352	0.6166	0.18369	3.357	0.617	0.18377	3.357			
16	0.6584	0.19958	3.299	0.6553	0.19819	3.306	0.6551	0.19818	3.306	0.7033	0.20076	3.369			
17	0.6965	0.21304	3.269	0.694	0.2124	3.267	0.6942	0.21281	3.262	0.7636	0.22773	3.353			
18	0.7349	0.2268	3.240	0.7331	0.22678	3.233	0.7569	0.23372	3.238	0.8127	0.24295	3.345			
19	0.7735	0.24076	3.213	0.7723	0.24134	3.200	0.8206	0.2524	3.251	0.8592	0.25821	3.328			
20	0.812	0.2549	3.186	0.8113	0.25607	3.168	0.8739	0.26935	3.244	0.9053	0.27574	3.283			
21	0.8502	0.26923	3.158	0.8499	0.27097	3.137	0.9204	0.2842	3.239	0.9441	0.286	3.278			
22	0.888	0.28371	3.130	0.9028	0.2906	3.107	0.9639	0.29848	3.229	0.9793	0.2984	3.282			
23	0.9251	0.29835	3.101	0.9626	0.30937	3.077	1.0044	0.31226	3.217	1.0199	0.31475	3.240			
24	0.9614	0.31313	3.070	1.0137	0.32754	3.094	1.0441	0.32749	3.198	1.0571	0.32003	3.203			
25	0.9969	0.32804	3.039	1.0549	0.33949	3.111	1.08	0.33949	3.181	1.0911	0.32455	3.186			
26	1.0314	0.34300	3.006	1.0951	0.35254	3.106	1.1185	0.35815	3.123	1.1222	0.35197	3.188			
27	1.0648	0.35825	2.972	1.1323	0.36612	3.093	1.1508	0.36989	3.111	1.1508	0.35948	3.201			
28	1.0971	0.37351	2.937	1.1703	0.38551	3.096	1.1819	0.38126	3.100	1.1835	0.3751	3.155			
29	1.1281	0.38887	2.901	1.1996	0.39193	3.061	1.2085	0.38673	3.125	1.21	0.38133	3.173			
30	1.1768	0.4062	2.897	1.2296	0.40276	3.053	1.2369	0.39859	3.103	1.2647	0.40443	3.127			
31	1.2207	0.42643	2.863	1.258	0.4141	3.038	1.2648	0.411	3.077	1.2883	0.41145	3.131			
32	1.2551	0.4358	2.880	1.2848	0.4256	3.019	1.2893	0.42028	3.068	1.3113	0.42	3.122			
33	1.2873	0.45054	2.857	1.3113	0.44107	2.973	1.3117	0.42668	3.074	1.333	0.42868	3.110			
34	1.3136	0.45624	2.879	1.3328	0.44652	2.985	1.3349	0.43583	3.044	1.3534	0.43177	3.092			
35	1.3401	0.4724	2.837	1.357	0.45379	2.963	1.357	0.45227	2.996	1.3727	0.44057	3.081			
36	1.3616	0.47887	2.843	1.3729	0.46368	2.981	1.4076	0.47519	2.962	1.3903	0.46169	3.012			
37	1.3817	0.48824	2.830	1.3925	0.47879	2.998	1.4201	0.47715	2.976	1.4053	0.46307	3.035			
38	1.3998	0.49868	2.807	1.4083	0.4877	2.888	1.4316	0.48163	2.972	1.4181	0.46626	3.041			
39	1.4168	0.51256	2.764	1.4214	0.49147	2.892	1.4425	0.49052	2.941	1.4315	0.4793	2.987			
40	1.4303	0.51939	2.754	1.4334	0.49722	2.883	1.4784	0.51818	1.444	1.4784	0.47889	1.598			
41	1.4412	0.52479	2.746	1.444	0.50415	2.884	0.742	0.52621	1.410	0.7584	0.49785	1.523			
42	1.4517	0.53575	2.710	1.453	0.51206	2.838	0.7342	0.53257	1.379	0.7546	0.50802	1.485			
43	1.4595	0.54409	2.682	0.7497	0.52329	1.433	0.7258	0.53901	1.347	0.7476	0.5146	1.453			
44				0.7424	0.53027	1.400	0.7162	0.5438	1.317	0.7331	0.52886	1.386			
45				0.7268	0.54352	1.337	0.695	0.55201	1.259	0.7259	0.53659	1.353			
46				0.7171	0.5486	1.307	0.6848	0.55714	1.229	0.7156	0.5408	1.323			
47				0.7083	0.55404	1.277	0.6713	0.55759	1.204	0.7071	0.54527	1.294			
48				0.696	0.55675	1.250	0.6583	0.55864	1.178	0.683	0.55211	1.237			
49				0.672	0.56192	1.196	0.6172	0.55766	1.104	0.6707	0.55406	1.211			
50				0.6601	0.56478	1.169	0.6012	0.55729	1.079	0.6589	0.55768	1.182			
51				0.6456	0.56402	1.145	0.585	0.55375	1.056	0.6444	0.55653	1.158			
52				0.6315	0.5638	1.120	0.5685	0.54936	1.035	0.63	0.55569	1.134			
53				0.6012	0.56035	1.073	0.552	0.5451	1.013	0.6155	0.55487	1.109			
54				0.5695	0.5548	1.026	0.5388	0.54217	0.988	0.5845	0.55025	1.062			
55				0.5525	0.54968	1.005	0.5178	0.53474	0.968	0.5682	0.5463	1.040			
56				0.5359	0.5452	0.983	0.5	0.52753	0.947	0.5517	0.54213	1.018			
57				0.5006	0.53223	0.941	0.4822	0.52029	0.928	0.4998	0.52464	0.953			
58				0.4627	0.52487	0.919	0.4643	0.51317	0.905	0.4819	0.51727	0.931			
59				0.4465	0.51862	0.897	0.4274	0.49553	0.863	0.464	0.50985	0.910			
60				0.4277	0.4996	0.856	0.4087	0.48572	0.841	0.4085	0.48303	0.846			
61				0.4092	0.49029	0.835	0.3901	0.4758	0.820	0.3899	0.47305	0.824			
62				0.3907	0.48108	0.812	0.3715	0.46584	0.797	0.3713	0.4628	0.802			
63				0.3531	0.45983	0.768	0.3153	0.4327	0.729	0.3527	0.45299	0.779			
64				0.3343	0.44836	0.746	0.2967	0.42104	0.705	0.2966	0.41857	0.709			
65				0.3156	0.43701	0.722	0.2783	0.40937	0.680	0.2782	0.40687	0.684			
66				0.2972	0.42594	0.698	0.26	0.39772	0.654	0.2599	0.39506	0.658			
67				0.224	0.38993	0.621	0.242	0.3866	0.626	0.2418	0.38325	0.631			
68				0.242	0.37761	0.593	0.1885	0.34905	0.540	0.2239	0.37185	0.602			
69				0.262	0.36541	0.564	0.1712	0.33562	0.508	0.1884	0.36485	0.543			
70				0.1685	0.35341	0.534	0.1585	0.3246	0.471	0.1711	0.35496	0.511			
71				0.1717	0.34208	0.502	0.1377	0.31248	0.441	0.1542	0.32345	0.478			
72				0.1214	0.30396	0.399	0.1214	0.30074	0.404	0.1375	0.31026	0.443			
73				0.1054	0.29196	0.361	0.0735	0.25366	0.290	0.1213	0.29821	0.407			
74				0.0898	0.27975	0.321	0.06	0.25675	0.234	0.0734	0.25174	0.292			
75				0.0737	0.25741	0.286	0.047	0.27616	0.170	0.0599	0.25509	0.235			

Mach: 0.1															
Reynold Number: 4000				Reynold Number: 6000				Reynold Number: 8000				Reynold Number: 10000			
Alpha	CL_Re 4000	CD_Re 4000	CI/Cd	CL_Re 6000	CD_Re 6000	CI/Cd	CL_Re 8000	CD_Re 8000	CI/Cd	CL_Re 10000	CD_Re 10000	CI/Cd			
0	-0.0181	0.0618	-0.293	-0.0251	0.05166	-0.486	-0.0306	0.04566	-0.670	-0.0351	0.04162	-0.843			
1	0.0379	0.06338	0.598	0.0316	0.05338	0.592	0.0289	0.04754	0.563	0.0283	0.04364	0.534			
2	0.0891	0.06581	1.426	0.0892	0.05504	1.593	0.0893	0.05039	1.693	0.0825	0.04685	1.768			
3	0.15	0.06919	2.168	0.1456	0.05589	2.436	0.1425	0.05425	2.627	0.1403	0.05056	2.768			
4	0.2034	0.07359	2.764	0.1997	0.060439	3.101	0.1974	0.05916	3.337	0.1957	0.05576	3.510			
5	0.2538	0.07907	3.210	0.2508	0.0702	3.573	0.2491	0.06521	3.820	0.2479	0.06199	3.999			
6	0.3008	0.08567	3.511	0.2983	0.07721	3.863	0.2969	0.07249	4.096	0.2959	0.06946	4.260			
7	0.344	0.09347	3.680	0.3416	0.08549	3.996	0.3402	0.08106	4.197	0.3393	0.07827	4.335			
8	0.3835	0.10249	3.742	0.3806	0.09506	4.004	0.3789	0.09099	4.164	0.3781	0.0885	4.272			
9	0.4195	0.11265	3.724	0.4157	0.10584	3.928	0.4137	0.10224	4.046	0.4129	0.10008	4.126			
10	0.4529	0.12378	3.659	0.4493	0.11764	3.811	0.4461	0.11461	3.892	0.4451	0.11282	3.945			
11	0.4852	0.13564	3.577	0.4799	0.13025	3.684	0.4776	0.1278	3.737	0.4767	0.12641	3.771			
12	0.5176	0.14801	3.497	0.5121	0.14341	3.571	0.51								

NACA_2412_Moderate_Turbulence														
Mach: 0.15														
Reynold Number: 20000				Reynold Number: 4000				Reynold Number: 8000				Reynold Number: 10000		
Alpha	CL_Re 20000	CD_Re 20000	Ci/Cd	CL_Re 4000	CD_Re 4000	Ci/Cd		CL_Re 8000	CD_Re 8000	Ci/Cd		CL_Re 10000	CD_Re 10000	Ci/Cd
0	-0.0519	0.03212	-1.615815691	-0.0654	0.0259	-2.525096525		0.1881	0.02018	9.32111001		0.2883	0.0166	0.6274757324
1	0.0099	0.03466	0.2856318523	0.0033	0.02007	0.1135190918		0.3592	0.01987	18.07750377		0.4111	0.0159	0.9160594514
2	0.0721	0.03823	1.88595344	0.1995	0.03482	2.56868684		0.4955	0.01929	25.686884		0.5157	0.0157	1.178392706
3	0.1329	0.04282	3.103689865	0.348	0.0394	8.83428731		0.6021	0.01944	30.97222222		0.6152	0.0160	1.481874021
4	0.1908	0.04847	3.93645554	0.4691	0.04378	10.71493833		0.7053	0.01992	35.40662651		0.7137	0.0168	1.769387148
5	0.2446	0.05528	4.424746744	0.6009	0.0474	12.67721519		0.8082	0.0205	39.42439024		0.8117	0.0176	2.073943482
6	0.2936	0.0634	4.630914826	0.7167	0.05002	14.32826869		0.9009	0.02136	42.17696629		0.9038	0.0186	2.383313116
7	0.3374	0.07294	4.62571977	0.8748	0.04601	19.01325799		0.9834	0.02235	44		0.9831	0.0198	2.674519832
8	0.3766	0.08399	4.483867127	1.0217	0.04056	25.18984221		1.0381	0.02531	41.01540893		1.0386	0.0230	2.923410364
9	0.412	0.09655	4.267219057	1.0854	0.04631	23.43770244		1.0954	0.03119	35.12023084		1.0919	0.0286	3.184217433
10	0.5044	0.11826	4.26517842	1.1032	0.05855	18.84201537		1.1709	0.03854	30.3814219		1.1653	0.0349	3.525229913
11	0.5761	0.13756	4.187990695	1.0251	0.07775	13.18456592		1.2276	0.04854	25.29048208		1.2306	0.0433	4.018285714
12	0.6312	0.15542	4.061253378	0.7283	0.16489	4.42224786		1.2439	0.06067	20.50271963		1.2518	0.0537	4.258402504
13	0.6733	0.17082	3.941575928	0.7541	0.17924	4.207208212		1.1558	0.07622	15.16398995		1.1817	0.0678	4.190276941
14	0.7113	0.18567	3.830990467	0.7821	0.19346	4.042696165		0.87	0.14402	6.040827653		1.0588	0.0946	4.292374427
15	0.7492	0.20014	3.743379634	0.8106	0.20731	3.910086344		0.5936	0.16321	3.637032045		0.6215	0.1617	2.470288962
16	0.7877	0.21496	3.66440268	0.8503	0.22374	3.800393314		0.5827	0.17172	3.393314698		0.6102	0.1718	
17	0.8284	0.23025	3.597828447	0.8749	0.23452	3.73059687		0.5925	0.18214	3.252992204		0.6019	0.1810	
18	0.8664	0.24529	3.532145624	0.9156	0.25174	3.637085882		0.605	0.19283	3.137478608		0.6174	0.1927	
19	0.9001	0.25757	3.494583997	0.9397	0.26109	3.599142058		0.6164	0.20365	3.026761601		0.6428	0.2065	
20	0.9386	0.2728	3.440615836	0.9711	0.27299	3.55727316		0.627	0.21481	2.918858526		0.6459	0.2152	
21	0.9699	0.28268	3.431088156	1.0037	0.28542	3.516572069		0.6406	0.2263	2.830755634		0.6426	0.2248	38.57142857
22	1.0014	0.29338	3.413320608	1.0367	0.29812	3.477458741		0.6699	0.24227	2.765096793		0.6542	0.2366	40.83645443
23	1.0384	0.30796	3.371868476	1.0719	0.31305	3.424053666		0.6882	0.24939	2.679337584		0.6862	0.2531	42.8875
24	1.0713	0.32067	3.340817663	1.1092	0.33098	3.351259895		0.6777	0.26141	2.592479247		0.6796	0.2602	41.11312765
25	1.1009	0.32958	3.304311912	1.1312	0.33303	3.396609089		0.7006	0.2769	2.530155291		0.6918	0.2728	39.87319885
26	1.1317	0.34001	3.328431517	1.1617	0.34526	3.364710653		0.7012	0.28568	2.454494539		0.7046	0.2848	38.39782016
27	1.1622	0.35117	3.309508215	1.1932	0.35854	3.327941094		0.7139	0.29883	2.388983703		0.7126	0.2975	36.76985854
28	1.193	0.36236	3.289546308	1.2189	0.36601	3.330229879		0.7226	0.31065	2.326900455		0.7287	0.3104	34.58829129
29	1.2218	0.37545	3.254228259	1.2525	0.39035	3.206858866		0.7319	0.32374	2.260764811		0.7319	0.3228	28.67946708
30	1.2743	0.39311	3.241586324	1.2723	0.38646	3.292190654		0.7406	0.33607	2.203707561		0.7481	0.3484	23.51037084
31	1.2987	0.40247	3.22682436	1.3005	0.40533	3.20849678		0.7478	0.3492	2.141466208		0.7607	0.3741	19.13229376
32	1.344	0.41943	3.203438759	1.3209	0.40566	3.256175122		0.7547	0.36165	2.086824728		0.7668	0.3865	15.37597754
33	1.367	0.43748	3.124714273	1.3438	0.41569	3.232697443		0.7603	0.37468	2.029198249		0.7696	0.3993	12.17336266
34	1.384	0.45358	3.178832284	1.3643	0.42346	3.221791905		0.7651	0.38716	1.976185556		0.7728	0.4113	8.109129066
35	1.4035	0.45386	3.093726579	1.3838	0.43013	3.217166903		0.7694	0.39984	1.924628708		0.7746	0.4236	5.562257648
36	0.7736	0.44452	1.740301418	0.7737	0.43907	1.762133601		0.772	0.4121	1.873331716		0.7756	0.4355	4.450820613
37	0.7727	0.45474	1.699212737	0.7732	0.44989	1.718642335		0.7749	0.43605	1.777089783		0.7745	0.4582	4.213131698
38	0.7695	0.47633	1.615476665	0.773	0.46154	1.6714827751		0.775	0.44731	1.732579196		0.7726	0.4687	3.938621533
39	0.7672	0.48687	1.575779982	0.7702	0.47175	1.632644409		0.7739	0.45859	1.687564055		0.7657	0.4889	3.633595931
40	0.7631	0.49672	1.536277984	0.7673	0.48174	1.592677883		0.7719	0.46936	1.644579853		0.7608	0.4977	3.498252713
41	0.7576	0.50492	1.500435713	0.7585	0.50061	1.515151515		0.769	0.47923	1.604657471		0.7482	0.5145	3.269961977
42	0.7526	0.5141	1.463917526	0.7528	0.50896	1.479094624		0.765	0.48923	1.563681704		0.7406	0.5215	3.070480929
43	0.7454	0.52169	1.42881788	0.7384	0.52408	1.408945159		0.7602	0.49843	1.525180894		0.7227	0.5339	2.830676433
44	0.7375	0.52816	1.396357164	0.73	0.5304	1.376319759		0.7543	0.50658	1.489004698		0.7127	0.5389	2.679424038
45	0.7294	0.53474	1.364027378	0.7208	0.53616	1.344374813		0.7476	0.51476	1.452327298		0.7017	0.5427	2.508669594
46	0.7097	0.54501	1.302177942	0.7106	0.54109	1.313275056		0.7401	0.52208	1.417598835		0.6777	0.5488	2.321844594
47	0.6989	0.54894	1.27318104	0.6998	0.54513	1.283730486		0.7316	0.52823	1.385002745		0.6647	0.5504	2.17627607
48	0.6878	0.55333	1.243019536	0.6883	0.54826	1.255426258		0.7122	0.53923	1.320772212		0.6509	0.5509	2.042359586
49	0.675	0.55477	1.216720443	0.6629	0.55241	1.200014482		0.7013	0.54329	1.290839147		0.6218	0.5502	1.870581511
50	0.662	0.55598	1.190680313	0.6493	0.55308	1.173971216		0.6894	0.54622	1.262128813		0.6084	0.5485	1.751841687
51	0.6484	0.55657	1.164992723	0.6351	0.55283	1.144816092		0.6772	0.54904	1.233425616		0.5905	0.5457	1.641098327
52	0.6194	0.5555	1.115031503	0.6049	0.55019	1.099438376		0.6643	0.5508	1.206063907		0.5573	0.5382	1.492181643
53	0.604	0.55341	1.091415045	0.5891	0.54751	1.079628083		0.6506	0.55142	1.179662899		0.5402	0.5333	1.394820419
54	0.5883	0.5506	1.068470759	0.5728	0.54387	1.053192859		0.6361	0.55101	1.15442551		0.5227	0.5274	1.305020847
55	0.572	0.54725	1.045226131	0.5389	0.53469	1.007873721		0.6061	0.54879	1.104429745		0.5047	0.5207	1.217993581
56	0.5382	0.53756	1.0071190565	0.5215	0.5289	0.986008973		0.5902	0.5461	1.080754441		0.4884	0.5063	1.095959631
57	0.5208	0.53159	0.9797024022	0.5038	0.52233	0.964523428		0.5737	0.54236	1.057784487		0.4500	0.4979	1.02119548
58	0.5031	0.52696	0.9583587321	0.4857	0.515	0.9451084521		0.5399	0.53351	1.011977283		0.413	0.4889	0.9509635313
59	0.4851	0.51808	0.9363418777	0.449	0.49906	0.8996914199		0.5224	0.52774	0.989881381		0.4124	0.4792	0.8628893147
60	0.4484	0.50138	0.8943316447	0.4304	0.49014	0.8781154565		0.5046	0.52113	0.9682804674		0.3747	0.4955	0.7654749745
61	0.4299	0.49236	0.8731416037	0.4117	0.4806	0.8566375364		0.4497	0.4981	0.9028307569		0.3558	0.4488	0.6959685464
62	0.4112	0.48276	0.8517689949	0.3928	0.47054	0.8347855655		0.4311	0.489					

NACA_2412_High_Turbulence														
Mach: 0.35														
Reynold Number: 200000				Reynold Number: 500000				Reynold Number: 800000				Reynold Number: 1000000		
Alpha	CL_Re 200000	CD_Re 200000	CI/Cd	CL_Re 500000	CD_Re 500000	CI/Cd		CL_Re 800000	CD_Re 800000	CI/Cd		CL_Re 1000000	CD_Re 1000000	CI/Cd
0	0.2684	0.01022	26.26223092	0.2467	0.00674	36.00237389		0.2525	0.00622	40.59485531		0.2542	0.00607	41.87808986
1	0.4551	0.01033	44.05614714	0.3614	0.00698	51.77650243		0.3626	0.00608	59.58315789		0.3676	0.00586	62.73037543
2	0.5541	0.01072	51.68843284	0.5263	0.00763	68.97771953		0.4862	0.00651	74.69509985		0.4799	0.00608	78.93092195
3	0.6544	0.01141	57.35319895	0.7575	0.00885	85.93220234		0.6504	0.00714	91.09243697		0.6307	0.00688	94.41616766
4	0.7546	0.01228	61.4405114	0.8583	0.00978	87.7607362		0.7646	0.00779	98.15147625		0.7687	0.0074	103.8783784
5	0.8532	0.01327	64.29540317	0.9545	0.01145	83.36244541		0.8643	0.00881	98.10442679		0.8673	0.00847	102.3966942
6	0.9462	0.01457	64.94166095	1.0423	0.01399	74.90321658		0.9608	0.01053	91.24406458		0.9636	0.01018	94.65618861
7	1.0204	0.01727	59.0851187	1.1234	0.01682	66.79953627		1.0548	0.01271	82.98977183		1.0608	0.01215	87.30864198
8	1.1116	0.02674	41.57068063	1.1842	0.02012	58.85685885		1.1482	0.01487	77.21587088		1.1579	0.01411	82.06236712
9	1.1541	0.0333	34.65765766	1.2296	0.0248	49.58064516		1.2282	0.0174	70.5862069		1.2456	0.01641	75.90493601
10	1.1868	0.04174	28.43315764	1.2574	0.03195	39.35524257		1.2831	0.02106	60.92592593		1.3109	0.01936	67.71177686
11	1.1887	0.05327	22.31462362	1.2665	0.04229	29.94797825		1.3201	0.02676	49.33109118		1.3583	0.02402	56.54870941
12	1.1292	0.07312	15.44310722	1.2622	0.05557	22.71369444		1.346	0.03496	38.50114416		1.3821	0.03176	43.51700252
13	1.0341	0.10355	9.986479961	1.2291	0.0739	16.63193505		1.3364	0.04832	27.65728477		1.3846	0.04351	31.82256952
14	0.912	0.1509	6.043737575	1.1713	0.09837	11.90708549		1.3093	0.06545	20.00458365		1.3531	0.06074	22.27691801
15	0.8894	0.18515	4.803672698	1.0949	0.12944	8.458745365		1.2661	0.08646	14.6437659		1.3074	0.08161	16.02095958
16	0.6349	0.17954	3.532639529	0.9286	0.19323	4.805671997		1.1437	0.14026	8.154142307		1.2488	0.10613	11.76670122
17	0.657	0.19189	3.423836573	0.9347	0.21912	4.26569196		1.056	0.17883	5.950540488		1.1893	0.12391	8.948160409
18	0.9479	0.24632	3.848246184	0.6512	0.19849	3.280789812		1.0245	0.27303	3.752334908		1.1346	0.16158	7.021908652
19	0.9944	0.26132	3.805296189	0.6582	0.21257	3.096397177		0.686	0.23748	2.888663187		0.6802	0.20441	3.32762585
20	1.0177	0.27637	3.682382314	0.6812	0.22445	3.062261182		0.7029	0.24849	2.82868259		0.6771	0.22301	3.036186718
21	1.0521	0.29197	3.603452409	1.0577	0.28817	3.670402887		0.7109	0.26447	2.688017545		0.6974	0.23227	3.002540147
22	1.091	0.30598	3.565592522	1.0921	0.30385	3.594207668		0.7291	0.27477	2.653492012		0.7007	0.24984	2.804594941
23	1.1232	0.32127	3.496124755	1.1263	0.32074	3.511567001		0.735	0.29213	2.516003149		0.7172	0.26992	2.748735245
24	1.1609	0.33618	3.45320959	1.1615	0.333	3.487897988		0.7489	0.30383	2.464865221		0.7253	0.27689	2.619451768
25	1.193	0.34951	3.413503119	1.1956	0.3502	3.414049115		0.7567	0.32054	2.360703812		0.7364	0.29099	2.530671157
26	1.2266	0.36359	3.373580131	1.2287	0.36178	3.396262922		0.7681	0.33263	2.309172354		0.7479	0.30489	2.453015842
27	1.2598	0.37719	3.33961293	1.2622	0.37859	3.333949655		0.7754	0.34962	2.217836958		0.758	0.31911	2.37535646
28	1.2916	0.39075	3.30543826	1.2932	0.39048	3.311821348		0.7845	0.36154	2.169884383		0.7676	0.33388	2.299029591
29	1.3226	0.40383	3.275140529	1.325	0.40576	3.265477129		0.7906	0.37896	2.086236014		0.7768	0.34728	2.236811795
30	1.3515	0.41646	3.245209624	1.3541	0.4182	3.237924436		0.797	0.39197	2.033318876		0.7842	0.36367	2.156350538
31	1.3809	0.42936	3.216182225	1.3809	0.42986	3.21244126		0.8018	0.40673	1.971332333		0.7973	0.3932	2.027721261
32	1.4339	0.45187	3.173257795	1.4101	0.44372	3.177904985		0.8062	0.42195	1.910652921		0.8027	0.40628	1.937571023
33	0.8024	0.42358	1.894329288	1.4341	0.45287	3.166692428		0.8092	0.43386	1.86517178		0.8064	0.41993	1.920320053
34	0.8055	0.43742	1.841479585	1.4589	0.46393	3.144655444		0.8111	0.44688	1.803727095		0.8097	0.43595	1.857323088
35	0.8078	0.4518	1.787959274	1.4826	0.47482	3.122446401		0.8123	0.46337	1.753206739		0.8117	0.44813	1.811304755
36	0.8088	0.46431	1.741939652	0.8101	0.44876	1.805106542		0.8118	0.47443	1.711105959		0.8123	0.46174	1.759215143
37	0.8089	0.47829	1.691233352	0.8111	0.46386	1.748597639		0.8108	0.48875	1.658925831		0.8126	0.47653	1.705244161
38	0.808	0.4911	1.645286902	0.8112	0.47718	1.699897426		0.8089	0.50184	1.611868325		0.8114	0.48801	1.662670847
39	0.8027	0.515	1.558640777	0.8098	0.48822	1.658678465		0.8054	0.51208	1.572801125		0.8017	0.51323	1.570445999
40	0.7987	0.52617	1.517950472	0.8078	0.50184	1.609676391		0.8008	0.52279	1.531781404		0.8017	0.52392	1.53019545
41	0.7933	0.53586	1.480423991	0.8048	0.51408	1.565515095		0.7962	0.53524	1.487556984		0.7957	0.53187	1.496042266
42	0.7872	0.5462	1.441230319	0.8004	0.52413	1.527102055		0.7899	0.54451	1.450662063		0.7899	0.54383	1.452475958
43	0.7803	0.55547	1.404756332	0.7892	0.5455	1.446746104		0.7819	0.55123	1.418464162		0.783	0.55367	1.414199794
44	0.7722	0.56333	1.370777342	0.782	0.55421	1.411017484		0.7742	0.56128	1.379347206		0.7746	0.56084	1.381142572
45	0.7534	0.57748	1.304633927	0.7646	0.56938	1.342864168		0.7655	0.56963	1.343854783		0.7557	0.57542	1.313301588
46	0.7428	0.58309	1.273902828	0.755	0.57665	1.309286396		0.7554	0.57526	1.31314536		0.745	0.58119	1.28185275
47	0.7312	0.58722	1.245189197	0.7442	0.58176	1.279221672		0.733	0.58584	1.251194865		0.733	0.58425	1.254599914
48	0.706	0.59402	1.188512171	0.7201	0.58993	1.220653298		0.7208	0.58993	1.221839879		0.7204	0.58788	1.225420154
49	0.6923	0.59575	1.162064624	0.7072	0.59318	1.192218214		0.7075	0.5915	1.196111581		0.7078	0.59211	1.195385992
50	0.6777	0.5959	1.137271354	0.6934	0.59443	1.166495634		0.6792	0.59465	1.142184478		0.694	0.59374	1.168861791
51	0.6371	0.59463	1.088239746	0.6537	0.5947	1.116024886		0.6642	0.59457	1.117109844		0.679	0.59262	1.145759509
52	0.631	0.59246	1.065050805	0.6481	0.59384	1.091371413		0.6482	0.59211	1.09472902		0.6485	0.59269	1.094163897
53	0.6142	0.5889	1.042961454	0.6318	0.59117	1.068788115		0.6153	0.58734	1.047604454		0.6323	0.59046	1.070860027
54	0.5614	0.57373	0.9785060548	0.5977	0.58352	1.024300705		0.5981	0.58332	1.025337722		0.6151	0.5854	1.05073454
55	0.5431	0.56669	0.958372023	0.5802	0.57879	1.002436117		0.5802	0.57721	1.00518009		0.5804	0.57746	1.005091262
56	0.5242	0.55844	0.9396863405	0.5621	0.57247	0.9818855137		0.5438	0.5647	0.9629891978		0.5624	0.57162	0.9838704034
57	0.4863	0.54143	0.8981770497	0.506	0.54967	0.9205523314		0.5252	0.55742	0.9421978636		0.5436	0.56316	0.9652674196
58	0.4669	0.53157	0.8783415166	0.4868	0.5402	0.901477231		0.506	0.54806	0.9232365777		0.5061	0.54827	0.9230853412
59	0.4474	0.52081	0.8590464853	0.467	0.52896	0.882644888		0.4674	0.52929	0.8830697727		0.4689	0.53914	0.9031049449
60	0.4081	0.49861	0.8184753615	0.4282	0.50911	0.8410756025		0.448	0.51935	0.8626167325		0.4672	0.52774	0.8852844204
61	0.3884	0.48666	0.7980931246	0.4084	0.49735	0.821521062		0.4281	0.50784	0.8437130469		0.4282	0.50	

NACA_23012_Low_Turbulence														
Mach: 0.06														
Reynold Number: 4000				Reynold Number: 6000				Reynold Number: 8000				Reynold Number: 10000		
Alpha	CL_Re 4000	CD_Re 4000	CI/Cd	CL_Re 6000	CD_Re 6000	CI/Cd		CL_Re 8000	CD_Re 8000	CI/Cd		CL_Re 10000	CD_Re 10000	CI/Cd
0	0.0295	0.0614	0.4804560261	0.0228	0.05795	0.44653349		0.0166	0.04407	0.3691340789		0.0109	0.04086	0.2657645619
1	0.0686	0.06311	1.086900968	0.0572	0.05297	1.070895623		0.0476	0.04705	1.011686962		0.0394	0.0431	0.9141531323
2	0.1051	0.06808	1.590496368	0.0905	0.05628	1.608031272		0.079	0.05066	1.559415713		0.0696	0.04689	1.481166206
3	0.139	0.07043	1.9735903799	0.1222	0.06114	1.989891528		0.1099	0.05594	1.964604934		0.1003	0.05261	1.906481657
4	0.1712	0.07614	2.248489624	0.154	0.06742	2.284188668		0.1423	0.06261	2.272799872		0.1338	0.05956	2.246474144
5	0.2036	0.08301	2.45271654	0.1878	0.07478	2.51366676		0.1779	0.07027	2.531663583		0.1712	0.0674	2.540059347
6	0.2373	0.09077	2.614298979	0.2238	0.08297	2.697360492		0.216	0.07866	2.745995423		0.211	0.07592	2.779241307
7	0.2725	0.09925	2.74559194	0.2614	0.09182	2.846874319		0.2554	0.0877	2.912200684		0.252	0.08513	2.96017855
8	0.309	0.1083	2.853185596	0.2998	0.10122	2.961865244		0.2953	0.09734	3.033696322		0.2931	0.09495	3.086887836
9	0.3464	0.1178	2.94057725	0.3387	0.11109	3.048879287		0.3353	0.10754	3.117909615		0.3339	0.10535	3.169435216
10	0.3843	0.12768	3.009868421	0.3778	0.12136	3.113520276		0.3752	0.1182	3.17428088		0.3744	0.11624	3.22092223
11	0.4228	0.1379	3.065989848	0.417	0.13207	3.157416522		0.415	0.12927	3.210334958		0.4144	0.12756	3.248667294
12	0.4615	0.14845	3.108790839	0.4562	0.14316	3.186644314		0.4546	0.14073	3.230299154		0.4543	0.1393	3.261306533
13	0.5004	0.15932	3.140848607	0.4955	0.15463	3.204423462		0.4942	0.15257	3.239168906		0.494	0.15144	3.282017961
14	0.5393	0.17054	3.162307963	0.5348	0.16648	3.212397886		0.5336	0.16482	3.237471181		0.5334	0.16399	3.252637356
15	0.5781	0.18212	3.174280694	0.5739	0.17874	3.210808996		0.5728	0.1775	3.227042254		0.5727	0.177	3.23593922
16	0.6168	0.19407	3.178234658	0.6127	0.19143	3.200647796		0.6118	0.19063	3.209358443		0.6211	0.19267	3.22364665
17	0.6552	0.20641	3.174264813	0.6514	0.20455	3.184551454		0.6506	0.20419	3.186248102		0.7025	0.21588	3.258851081
18	0.6933	0.21924	3.162287704	0.6898	0.21809	3.162914393		0.6891	0.21818	3.158401392		0.7606	0.23239	3.260319774
19	0.7311	0.23249	3.144651383	0.728	0.23201	3.137795785		0.7612	0.24276	3.135607184		0.809	0.24023	3.239243243
20	0.7685	0.24611	3.1225871461	0.7658	0.2463	3.109216403		0.8232	0.26133	3.150040179		0.8627	0.26423	3.227112743
21	0.8057	0.26005	3.098250336	0.8034	0.26091	3.07922272		0.8716	0.27604	3.157513404		0.8978	0.28245	3.178615684
22	0.8425	0.27426	3.071902574	0.8406	0.27577	3.048192334		0.9164	0.29162	3.142445648		0.937	0.29789	3.145456377
23	0.8788	0.28872	3.04377244	0.9114	0.30168	3.012018141		0.96	0.30954	3.101376236		0.9686	0.30636	3.161639901
24	0.9145	0.3034	3.014177209	0.9665	0.32122	3.008841293		0.997	0.32248	3.091664599		1.0069	0.32383	3.109347497
25	0.9495	0.31827	2.983316052	1.0105	0.33518	3.014798019		1.036	0.34016	3.045625588		1.0389	0.33496	3.101564366
26	0.9837	0.33332	2.951218049	1.0506	0.34903	3.010056442		1.0659	0.34757	3.066720373		1.0732	0.35037	3.063047635
27	1.0169	0.34852	2.917766556	1.0896	0.36671	2.971285212		1.0979	0.35908	3.057535925		1.1003	0.35585	3.09203316
28	1.0492	0.36385	2.883605882	1.1215	0.37586	2.983823764		1.129	0.3714	3.039849219		1.1317	0.37036	3.056575559
29	1.0803	0.3793	2.848141313	1.1543	0.39054	2.95655115		1.1606	0.38705	2.998578995		1.1585	0.37759	3.068142694
30	1.1369	0.40147	2.831842977	1.1832	0.40017	2.956743384		1.1875	0.39529	3.004123555		1.1876	0.39077	3.039127876
31	1.1789	0.41635	2.831511949	1.2114	0.41172	2.942290877		1.2155	0.40949	2.968326455		1.216	0.40655	2.991022015
32	1.2142	0.42997	2.823917948	1.2386	0.42468	2.915468931		1.2389	0.41507	2.984797745		1.2418	0.41911	2.962945289
33	1.2451	0.44207	2.81652227	1.2859	0.44378	2.897606922		1.2632	0.42532	2.969999906		1.2645	0.42616	2.96719542
34	1.2744	0.45926	2.77489875	1.3099	0.46117	2.84038424		1.2863	0.43648	2.946984971		1.285	0.43002	2.988233105
35	1.2979	0.46541	2.788723921	1.3286	0.46739	2.842593979		1.3074	0.44598	2.931521593		1.3049	0.43622	2.991380496
36	1.3218	0.48077	2.749339601	1.3456	0.47246	2.836087194		1.3265	0.45333	2.926124457		1.3246	0.44556	2.972888051
37	1.3427	0.49398	2.71812624	1.3619	0.4801	2.836710687		1.3438	0.46027	2.918590675		1.3445	0.46187	2.919089271
38	1.3599	0.50747	2.717245789	1.3767	0.48789	2.81164358		1.3603	0.46582	2.91540037		1.3594	0.46825	2.835302385
39	1.3751	0.50992	2.712656829	1.3898	0.49667	2.803981615		1.3762	0.48223	2.893824938		1.3735	0.46778	2.836209329
40	1.3906	0.52218	2.693066376	1.4014	0.50396	2.780776252		1.3894	0.48961	2.877768836		1.3892	0.47973	2.914556104
41	1.4016	0.52487	2.670375522	1.4117	0.51463	2.743135845		1.3993	0.48883	2.862549353		0.7333	0.48921	1.471869292
42	1.4204	0.5433	2.614393521	0.7312	0.5164	2.615986623		1.41	0.50199	2.808620893		0.7238	0.51606	1.402550091
43	1.4024	0.59326	2.363887672	0.7259	0.52503	1.382587662		1.7342	0.50195	3.454925789		0.7108	0.53144	1.337498118
44	1.4077	0.60796	2.315448385	0.7126	0.53997	1.319702946		1.7305	0.51205	3.379552778		0.704	0.53927	1.305468504
45	1.4114	0.62686	2.251539419	0.7053	0.54746	1.288313301		1.725	0.52014	3.316414811		0.6945	0.54423	1.276114878
46	1.4114	0.61664	2.288855734	0.6962	0.55261	1.25983967		1.7187	0.52815	3.254189151		0.685	0.54902	1.24767768
47	1.4106	0.62464	2.258260758	0.6866	0.55785	1.230796809		1.712	0.53549	3.197071841		0.6836	0.55659	1.192286012
48	1.4036	0.63623	2.260120428	0.6763	0.56178	1.203852042		1.7038	0.54201	3.143484438		0.6521	0.55937	1.165775783
49	1.3978	0.65232	2.142813343	0.6652	0.56543	1.176449782		1.6951	0.54754	3.095846879		0.6264	0.56154	1.115503793
50	1.3895	0.65033	2.136607568	0.6531	0.56733	1.151181852		1.6859	0.55328	3.047100925		0.6128	0.56154	1.091284681
51	1.3798	0.66173	2.085140465	0.6273	0.56948	1.101512121		1.675	0.55648	3.009991374		0.5836	0.55866	1.046462538
52	1.3681	0.66059	2.071027415	0.6146	0.57109	1.076187641		1.6523	0.56249	2.937474444		0.5682	0.55562	1.022641374
53	1.3549	0.67604	2.004171351	0.5994	0.56857	1.054223754		1.64	0.56427	2.906410052		0.5527	0.55243	1.00048875
54														

NACA_23012_Moderate_Turbulence														
Mach: 0.15														
Reynold Number: 20000				Reynold Number: 40000				Reynold Number: 80000				Reynold Number: 100000		
Alpha	CL_Re 20000	CD_Re 20000	Ci/Cd	CL_Re 40000	CD_Re 40000	Ci/Cd		CL_Re 80000	CD_Re 80000	Ci/Cd		CL_Re 100000	CD_Re 100000	Ci/Cd
0	-0.0156	0.03126	-0.4990403071	-0.0482	0.0248	-1.943548387		0.2891	0.01656	17.45772947		0.2905	0.0146	19.89726027
1	0.0065	0.03421	0.1900020231	0.3087	0.02696	11.45022674		0.3759	0.01585	23.71608833		0.3715	0.01421	26.14356807
2	0.0359	0.03027	0.906544436	0.4621	0.02627	17.59040731		0.4586	0.01668	27.4940048		0.4564	0.01508	30.26525199
3	0.219	0.05098	4.304245283	0.5484	0.02858	19.18824353		0.5463	0.01844	29.62581345		0.5444	0.01665	32.6965967
4	0.3397	0.0608	5.587171053	0.6276	0.03274	19.16921197		0.6377	0.02059	30.97134531		0.6359	0.01848	34.41017316
5	0.382	0.07068	5.404640634	0.6974	0.03874	18.02006505		0.7299	0.02327	31.3656639		0.7292	0.02067	35.27818094
6	0.3911	0.08123	4.814723624	0.737	0.04858	15.1708522		0.8209	0.02653	30.94232944		0.8215	0.02335	36.18201285
7	0.2908	0.09057	3.210776195	0.6922	0.06805	10.1719324		0.9052	0.03068	29.50456323		0.9143	0.02663	34.33345851
8	0.3342	0.10153	3.29163794	0.6113	0.13561	4.507779662		0.9824	0.03613	27.19070025		0.9971	0.03075	32.42601626
9	0.4452	0.12209	3.646490294	0.6428	0.14834	4.333288392		1.0341	0.04386	23.57729138		1.0798	0.03524	30.64131669
10	0.5217	0.13939	3.742736208	0.6962	0.16485	4.222332342		1.0972	0.05084	21.58143194		1.1358	0.04168	27.25047985
11	0.5698	0.15214	3.742534652	0.7016	0.17403	4.031488824		0.7877	0.10775	7.310440835		1.1881	0.04724	25.15026636
12	0.6273	0.16881	3.716012085	0.7339	0.18746	3.914968527		0.7372	0.13843	5.325435238		1.1909	0.05515	21.593835
13	0.6675	0.1819	3.669598681	0.7657	0.20138	3.802264376		0.7298	0.16447	4.437283395		0.7921	0.19052	4.157568759
14	0.7005	0.19363	3.617724526	0.7903	0.21373	3.697659521		0.7741	0.18071	4.283658901		0.8051	0.20413	3.944055259
15	0.7445	0.20939	3.555666168	0.8247	0.22887	3.603355617		0.7754	0.19237	4.030774029		0.8335	0.21828	3.818490013
16	0.7812	0.22339	3.497023143	0.8527	0.24058	3.544351151		0.8407	0.22226	3.770631503		0.8628	0.23244	3.711925658
17	0.8106	0.23452	3.456421627	0.8934	0.25799	3.46292492		0.8611	0.23526	3.66020573		0.8919	0.24646	3.618842814
18	0.8518	0.25127	3.389978907	0.9283	0.2743	3.38425082		0.8904	0.24879	3.578921982		0.9219	0.26023	3.54265361
19	0.8889	0.26709	3.328919154	0.9581	0.28638	3.345554857		0.924	0.26311	3.511839155		0.9529	0.27378	3.480531814
20	0.9149	0.27465	3.331148735	0.9924	0.30152	3.291323959		0.9635	0.28071	3.439842913		0.9862	0.28812	3.429820908
21	0.9493	0.28876	3.287595195	1.0175	0.30757	3.158919006		0.9897	0.2893	3.415938978		1.0238	0.30216	3.388271115
22	0.9807	0.29641	3.275441702	1.0462	0.31737	3.296467845		1.0165	0.30076	3.379771246		1.0487	0.31243	3.35659707
23	1.017	0.31519	3.22665251	1.0764	0.32888	3.272926295		1.0469	0.31367	3.338648468		1.0788	0.3253	3.316323394
24	1.1108	0.35106	3.164131487	1.1084	0.34229	3.238198839		1.0813	0.32826	3.294035216		1.1134	0.34055	3.269417119
25	1.1385	0.3591	3.170420605	1.1421	0.35888	3.182408002		1.1098	0.33797	3.283723407		1.1393	0.34914	3.26316091
26	1.1666	0.36912	3.160489814	1.1664	0.36317	3.21171903		1.1384	0.3497	3.255361739		1.1678	0.36103	3.234634241
27	1.1954	0.38149	3.133502844	1.195	0.37572	3.180559991		1.1708	0.36594	3.199431601		1.1969	0.37312	3.20781518
28	1.2477	0.40069	3.113878559	1.2227	0.38685	3.160565855		1.1955	0.37228	3.211292575		1.2227	0.38335	3.189513499
29	1.2719	0.41049	3.098492046	1.247	0.39491	3.157681497		1.2223	0.38365	3.185978802		1.2486	0.39521	3.159333013
30	1.3165	0.42756	3.079100009	1.2746	0.41373	3.080753148		1.2482	0.39374	3.170112257		1.273	0.40417	3.149664745
31	1.3381	0.44248	3.024091484	1.2947	0.41445	3.123899143		1.2725	0.40408	3.149128885		1.2957	0.41459	3.125262727
32	1.3555	0.44365	3.055336414	1.3184	0.43157	3.054892601		1.2957	0.41333	3.134783345		1.3182	0.42236	3.121034189
33	1.3732	0.45535	3.015702207	1.3371	0.43054	3.015634784		1.3177	0.42216	3.121328406		1.3378	0.43128	3.110929141
34	0.7459	0.46538	1.602776226	1.373	0.44606	3.078061247		0.7419	0.40739	1.821105084		1.3577	0.43879	3.094190843
35	0.7431	0.4752	1.563762626	1.3886	0.45348	3.062097557		0.7462	0.43236	1.725876584		1.3738	0.44629	3.078267494
36	0.7414	0.48601	1.525483015	0.7439	0.47002	1.582986809		0.7467	0.45605	1.637320469		0.7475	0.44362	1.688000676
37	0.738	0.49644	1.486584482	0.7419	0.48065	1.545354797		0.7455	0.46709	1.596052153		0.7473	0.45541	1.640398934
38	0.7335	0.50539	1.4513544	0.7385	0.49107	1.50385892		0.7432	0.47798	1.554876773		0.7438	0.47761	1.557337577
39	0.7223	0.52284	1.381493382	0.7344	0.50059	1.467068859		0.74	0.48839	1.515182539		0.7405	0.48746	1.515099003
40	0.7155	0.53036	1.349083641	0.7232	0.51816	1.395077889		0.7307	0.50727	1.440455773		0.7363	0.49749	1.480029749
41	0.6989	0.54339	1.286184876	0.7164	0.52573	1.362676659		0.7248	0.51573	1.405386539		0.7313	0.50682	1.44291859
42	0.6896	0.54863	1.256949128	0.6999	0.53903	1.2984435		0.71	0.53088	1.338158242		0.7251	0.5147	1.408781815
43	0.6862	0.55674	1.200201171	0.6905	0.54436	1.268402047		0.7013	0.53681	1.30642266		0.7182	0.52299	1.373257815
44	0.6564	0.55931	1.173589898	0.6802	0.54895	1.23992814		0.6917	0.54186	1.276528993		0.7105	0.53015	1.34019874
45	0.6441	0.56148	1.147146826	0.6691	0.55261	1.21079986		0.6814	0.54681	1.246139584		0.7017	0.53805	1.309019681
46	0.617	0.56203	1.097806167	0.6574	0.55542	1.176368801		0.6705	0.55067	1.217807642		0.6921	0.54168	1.277691626
47	0.6027	0.56099	1.074350701	0.6449	0.55719	1.157414885		0.6586	0.55332	1.190269645		0.682	0.54652	1.24789677
48	0.5879	0.55951	1.050740827	0.6179	0.55841	1.06534625		0.6329	0.55653	1.137225307		0.6709	0.55014	1.219507762
49	0.5563	0.55279	1.006349608	0.6036	0.55752	1.082651743		0.6191	0.55672	1.112048145		0.6464	0.55503	1.164621732
50	0.54	0.54818	0.9850778941	0.5886	0.5556	1.058935248		0.6046	0.55571	1.087977542		0.6333	0.55623	1.138557131
51	0.5232	0.54288	0.9637488948	0.5572	0.5496	1.018238239		0.5741	0.55157	1.040847037		0.6195	0.55626	1.11368784
52	0.4886	0.52984	0.9221651819	0.5408	0.54518	0.9919659562		0.5582	0.54821	1.018222944		0.6048	0.55502	1.088690462
53	0.4708	0.52211	0.90172569	0.524	0.53989	0.970568077		0.5417	0.54376	0.9962115639		0.5745	0.55137	1

NACA_23012_High_Turbulence														
Mach: 0.35														
Reynold Number: 200000				Reynold Number: 500000				Reynold Number: 800000				Reynold Number: 1000000		
Alpha	CL_Re 200000	CD_Re 200000	CI/Cd	CL_Re 500000	CD_Re 500000	CI/Cd		CL_Re 800000	CD_Re 800000	CI/Cd		CL_Re 1000000	CD_Re 1000000	CI/Cd
0	0.153	0.01072	14.27238806	0.123	0.00726	17.07989881		0.1297	0.00677	19.15805022		0.1323	0.00666	19.86488486
1	0.3441	0.01188	28.96466456	0.233	0.00801	29.0886302		0.2388	0.00705	33.87234043		0.2429	0.00676	35.93196268
2	0.4883	0.01281	38.1186573	0.3722	0.00913	40.76670318		0.3522	0.00775	45.44516129		0.355	0.00727	48.30811155
3	0.5831	0.01382	42.19247467	0.5367	0.01009	53.19127849		0.4905	0.00852	57.57042254		0.4791	0.00789	60.72243346
4	0.6782	0.01508	44.9734748	0.7003	0.01097	63.87739209		0.6469	0.00929	69.63401507		0.628	0.0086	73.02325581
5	0.7747	0.01661	46.64057797	0.796	0.01175	67.74468085		0.8034	0.01006	79.86083499		0.7813	0.00937	83.38313767
6	0.8727	0.01851	47.14748784	0.8912	0.01273	70.07855546		0.9118	0.0108	84.42592933		0.9206	0.01015	90.69950739
7	0.9718	0.02092	46.45315488	0.9882	0.01387	71.24729632		1.0097	0.01166	86.59519726		1.0192	0.01091	93.41888176
8	1.0671	0.02373	44.96839444	1.0874	0.01517	71.86094924		1.1105	0.01266	87.71721959		1.1199	0.01185	94.50632911
9	1.154	0.02684	42.99552906	1.1883	0.01659	71.62748644		1.2143	0.01389	87.42260619		1.2261	0.01287	95.26806527
10	1.2346	0.02957	41.75177545	1.2861	0.01825	70.47123288		1.3193	0.01535	85.94788274		1.3312	0.01437	92.63743911
11	1.2746	0.03326	38.32230908	1.3689	0.02049	66.8019912		1.4111	0.01768	79.81334842		1.424	0.01675	85.01492533
12	1.294	0.03799	34.06159516	1.4173	0.02491	56.89682858		1.4606	0.02184	66.87728938		1.4767	0.02079	71.02934103
13	1.2601	0.05186	24.2981103	1.4153	0.03527	40.12758718		1.4696	0.03007	48.87263053		1.4944	0.02794	53.48604152
14	1.1714	0.07757	15.10119892	1.3545	0.05666	23.90575362		1.4303	0.04762	30.03569929		1.4704	0.04284	34.32306256
15	1.0419	0.11311	9.211387145	1.2517	0.08447	14.81827868		1.3198	0.07661	17.22751599		1.3659	0.07095	19.25158562
16	0.8594	0.17153	5.010202297	1.1777	0.10982	10.72391186		1.2145	0.10543	11.51949161		1.2405	0.10203	12.15818877
17	0.8652	0.19254	4.493611717	1.1328	0.13264	8.540410133		1.1533	0.13036	8.847038699		1.1713	0.12785	9.161517403
18	0.8842	0.21117	4.187147796	1.1092	0.15351	7.22558791		1.1273	0.15143	7.444363732		1.1358	0.15028	7.57891935
19	0.9068	0.23132	3.920110699	1.0975	0.1736	6.322004608		1.1161	0.1711	6.523089915		1.1213	0.17049	6.576925333
20	0.9273	0.25322	3.662033015	0.9882	0.22268	4.442449687		1.1127	0.1904	5.844012605		1.1193	0.18948	5.907219759
21	0.9728	0.28848	3.623361144	1.0056	0.27662	3.85311918		1.1019	0.21301	5.172999573		1.1193	0.20906	5.353665369
22	1.0315	0.2986	3.454544119	1.0698	0.31154	3.433908968		1.0451	0.28668	3.645528115		1.1145	0.23141	4.81612722
23	1.0657	0.31419	3.391896623	1.1067	0.32329	3.42342229		1.0745	0.30673	3.510634822		1.0913	0.27607	3.844314848
24	1.1041	0.32863	3.359705444	1.1385	0.34014	3.347151173		0.8877	0.26733	2.57475966		0.694	0.24386	2.845895186
25	1.1361	0.34267	3.315434675	1.1715	0.35732	3.278573827		0.7052	0.27743	2.541902462		0.587	0.26172	2.66315146
26	1.1693	0.35792	3.266931158	1.2041	0.36957	3.258110777		0.711	0.29502	2.410006101		0.7027	0.27888	2.519721744
27	1.2032	0.37162	3.237715946	1.2365	0.3855	3.207522698		0.7203	0.31073	2.31808966		0.7111	0.2952	2.408875339
28	1.2351	0.38544	3.204389788	1.2681	0.40085	3.163527504		0.7332	0.32196	2.277301528		0.7254	0.30593	2.371130651
29	1.2665	0.39985	3.167437789	1.2972	0.41255	3.14343614		0.74	0.33966	2.178649237		0.7319	0.32374	2.260764811
30	1.2964	0.4121	3.145838389	1.3275	0.42812	3.10070614		0.7488	0.35336	2.119085352		0.7402	0.33988	2.177827469
31	1.3261	0.42639	3.110063557	1.3543	0.43953	3.081245876		0.7561	0.36945	2.046555691		0.7497	0.35258	2.12632594
32	1.3528	0.43793	3.089078163	1.3819	0.45258	3.033828227		0.7626	0.38434	1.984180673		0.7563	0.36992	2.044496107
33	1.3807	0.45018	3.066995424	0.7723	0.41548	1.858813902		0.7685	0.39945	1.923893536		0.7636	0.38258	1.995922421
34	1.4046	0.45986	3.054407863	0.779	0.44478	1.751427672		0.7733	0.41268	1.873848987		0.7689	0.3998	1.923211606
35	1.4295	0.47169	3.030592126	0.7807	0.45732	1.707119741		0.7772	0.42951	1.809503853		0.7739	0.41135	1.871584039
36	0.7769	0.44573	1.74298342	0.7815	0.47243	1.654213323		0.7799	0.44155	1.766277885		0.7774	0.42725	1.819543593
37	0.7787	0.46001	1.692789287	0.7814	0.48609	1.607521241		0.7817	0.45819	1.706068004		0.7804	0.44362	1.759163248
38	0.7796	0.47396	1.644864546	0.7796	0.49688	1.568990501		0.7825	0.4717	1.658893364		0.7819	0.4554	1.71695213
39	0.7782	0.50047	1.554938358	0.7776	0.51131	1.527599515		0.7807	0.49833	1.566632553		0.7826	0.47106	1.661359487
40	0.7758	0.51232	1.514287945	0.7743	0.52335	1.479507022		0.7784	0.51065	1.524331734		0.7825	0.48504	1.613269009
41	0.7723	0.52423	1.473208325	0.7641	0.54438	1.403615122		0.7743	0.52015	1.488609055		0.7808	0.49593	1.574415744
42	0.7682	0.53685	1.433610152	0.7581	0.55493	1.368116249		0.7702	0.53337	1.444025723		0.7783	0.50946	1.527695992
43	0.7626	0.54563	1.397650422	0.7506	0.56332	1.332457573		0.7651	0.54459	1.404910116		0.7753	0.52268	1.483316752
44	0.7562	0.55554	1.361198114	0.733	0.57897	1.26691772		0.7585	0.55338	1.370667534		0.7706	0.53251	1.447108974
45	0.7492	0.56496	1.326111593	0.7232	0.58533	1.235542344		0.7428	0.5711	1.300647873		0.7598	0.55386	1.370021305
46	0.7409	0.57262	1.292877265	0.7121	0.59001	1.209698966		0.7338	0.57855	1.268343272		0.7516	0.56294	1.335133407
47	0.7217	0.58624	1.231055775	0.6877	0.59726	1.15142494		0.7234	0.58385	1.239016871		0.7428	0.56938	1.304576908
48	0.7109	0.59149	1.201879998	0.6747	0.60002	1.120462518		0.7007	0.59363	1.180364874		0.7237	0.58408	1.239042597
49	0.6991	0.59514	1.174681588	0.6608	0.60089	1.090702109		0.6884	0.59746	1.152211027		0.7129	0.58974	1.208837793
50	0.6735	0.60082	1.12068001	0.6458	0.59991	1.076494808		0.6751	0.59911	1.126838143		0.7009	0.59288	1.182195385
51	0.6597	0.60196	1.095919995	0.615	0.59745	1.023734843		0.6605	0.59842	1.103739848		0.6748	0.59811	1.128220561
52	0.6451	0.60161	1.072289357	0.5987	0.59451	1.007047821		0.6311	0.59918	1.053272806		0.6613	0.60034	1.101542459
53	0.5979	0.5953	1.004367546	0.5818	0.59003	0.986051567		0.6154	0.59727	1.030354781		0.6467	0.60023	1.077420322
54	0.5811	0.59101	0.983230942	0.5642	0.58378	0.9664599678		0.5989	0.5936	1.008928571		0.631	0.59772	1.055678244
55	0.5637	0.58539	0.9629477784	0.5285	0.57127	0.925317241		0.5815	0.58781	0.9892652388		0.5987	0.59265	1.010208386
56	0.5096	0.56429	0.9030817487	0.5102	0.56359	0.905268014		0.5468	0.57781	0.9463318392		0.5822	0.58947	0.987666872
57	0.4909	0.5554	0.8838674829	0.4915	0.5546	0.8862243058		0.5289	0.57109	0.9261237283		0.5649	0.58424	0.9668971655
58	0.472	0.54554	0.8651977857	0.4724	0.5443	0.8679037296		0.5104	0.56299	0.9065880389		0.5469	0.5772	0.9475051975
59	0.4527	0.53462	0.8467696882	0.4145	0.51169	0.810060779		0.4914	0.5531	0.8884469355		0.528	0.56779	0.9299212737
60	0.4141	0.51246	0.8080630683	0.3951	0.49956	0.7908959885		0.4341	0.52278	0.830368415		0.4916	0.55353	0.8881180785
61	0.3947	0.5003	0.788926644	0.3755	0.48655	0.7717603353		0.4147						

NACA_23015_Low_Turbulence

Mach: 0.06

Reynold Number: 4000				Reynold Number: 6000				Reynold Number: 8000				Reynold Number: 10000			
Alpha	CL_Re 4000	CD_Re 4000	Cl/Cd	CL_Re 6000	CD_Re 6000	Cl/Cd		CL_Re 8000	CD_Re 8000	Cl/Cd		CL_Re 10000	CD_Re 10000	Cl/Cd	
0	-0.0091	0.07	-0.13	-0.0229	0.05951	-0.3848092758		-0.0344	0.05338	-0.6444361184		-0.0444	0.04928	-0.900974026	
1	0.006	0.07207	0.08325239351	-0.0141	0.06517	-0.228261486		-0.0297	0.05579	-0.5323534684		-0.0424	0.05182	-0.8182169047	
2	0.0259	0.0753	0.3439575033	0.0032	0.06532	0.04898958971		-0.0133	0.0596	-0.2231543624		-0.0261	0.05583	-0.4674905965	
3	0.0502	0.07969	0.6299410215	0.0273	0.07014	0.3892215569		0.0116	0.06473	0.1792059323		-0.0001	0.06121	-0.00163371998	
4	0.078	0.08514	0.9161381254	0.0563	0.07606	0.7402051012		0.0423	0.07095	0.5961945032		0.0323	0.06765	0.4774575018	
5	0.1088	0.0915	1.189071038	0.0893	0.08287	1.077591408		0.0774	0.07803	0.9919261822		0.0692	0.07491	0.9237751969	
6	0.1423	0.0986	1.443204868	0.1252	0.0904	1.384955752		0.1153	0.08579	1.343979485		0.1089	0.08287	1.314106432	
7	0.1781	0.10829	1.675904478	0.1632	0.09851	1.6568684601		0.155	0.09414	1.64848396		0.1502	0.09143	1.642786831	
8	0.2158	0.11444	1.863566859	0.2024	0.10709	1.889399066		0.1958	0.10304	1.900232919		0.1921	0.10051	1.916872373	
9	0.2544	0.12297	2.068797268	0.2426	0.11607	2.069011802		0.2372	0.11239	2.110508052		0.2344	0.1101	2.1289736	
10	0.2943	0.13183	2.232402542	0.2832	0.12544	2.257683061		0.2788	0.12214	2.282636494		0.2766	0.12009	2.303272546	
11	0.3347	0.14098	2.374095616	0.3241	0.13523	2.396657546		0.3205	0.12727	2.423074015		0.3187	0.13047	2.442077136	
12	0.3757	0.15044	2.497341133	0.3651	0.14537	2.511522322		0.3621	0.14276	2.536602452		0.3608	0.14122	2.554878912	
13	0.4168	0.16018	2.60272666	0.4062	0.15588	2.605850654		0.4037	0.15356	2.628255208		0.4026	0.15233	2.642946235	
14	0.4579	0.17024	2.689732143	0.4471	0.16675	2.68125937		0.4449	0.16481	2.698472119		0.444	0.16382	2.710291784	
15	0.4988	0.18061	2.761751841	0.4877	0.17801	2.739733723		0.4858	0.17643	2.753499872		0.4851	0.17571	2.760799044	
16	0.5395	0.19131	2.820303317	0.5279	0.1897	2.782814971		0.5262	0.18846	2.792104425		0.5488	0.19581	2.802716919	
17	0.5797	0.20235	2.864838152	0.5676	0.20181	2.812546455		0.5662	0.20094	2.817756544		0.6153	0.21234	2.879711218	
18	0.6194	0.21378	2.897371129	0.6068	0.21436	2.830752006		0.6056	0.21387	2.831626689		0.67	0.22808	2.937565766	
19	0.6585	0.22568	2.917848281	0.6455	0.22733	2.83948445		0.6272	0.22829	2.823030761		0.7217	0.24619	2.93147569	
20	0.697	0.23796	2.92963708	0.6835	0.24073	2.839280522		0.7308	0.25441	2.872528596		0.7627	0.25782	2.958265457	
21	0.7349	0.25058	2.932795913	0.721	0.25454	2.832560698		0.7841	0.27414	2.860217407		0.8059	0.27366	2.944895125	
22	0.7722	0.26354	2.930105487	0.7578	0.26875	2.81972093		0.8256	0.28516	2.89521672		0.84	0.28709	2.939844648	
23	0.8089	0.2768	2.92232659	0.8152	0.29215	2.790347424		0.8717	0.30597	2.848972121		0.8796	0.29975	2.93444537	
24	0.8448	0.29033	2.909792305	0.8727	0.3152	2.768718274		0.9112	0.32233	2.826916514		0.9201	0.32011	2.874324451	
25	0.88	0.30413	2.894394949	0.9174	0.3283	2.78439537		0.9435	0.33025	2.856926571		0.9495	0.32636	2.909363893	
26	0.9144	0.31815	2.874115983	0.9602	0.34826	2.757135473		0.9769	0.34264	2.851097362		0.9832	0.35332	2.803124646	
27	0.9479	0.33238	2.851856309	0.9968	0.36115	2.750071992		1.0153	0.36555	2.777458624		1.0173	0.35851	2.837577752	
28	0.9805	0.3468	2.82727797	1.0333	0.37889	2.727176753		1.0428	0.37149	2.807074215		1.0461	0.36775	2.844955513	
29	1.012	0.36137	2.800453828	1.0649	0.38897	2.737743271		1.0716	0.38045	2.816664472		1.0752	0.37924	2.835143972	
30	1.0576	0.38478	2.748583606	1.0945	0.4003	2.73419935		1.101	0.39327	2.799603326		1.1045	0.3939	2.820401117	
31	1.1056	0.40403	2.738430463	1.1244	0.41435	2.713647882		1.1289	0.40569	2.782666568		1.1341	0.4131	2.745340117	
32	1.1425	0.41397	2.75981826	1.1778	0.44127	2.689114148		1.155	0.41636	2.774041695		1.1581	0.41455	2.769841852	
33	1.1773	0.43038	2.735485867	1.2014	0.45045	2.687110687		1.1797	0.42831	2.767235111		1.1804	0.41849	2.82021699	
34	1.2044	0.43472	2.770518955	1.2242	0.46133	2.65363189		1.2038	0.43894	2.743141008		1.2052	0.43458	2.773252336	
35	1.2317	0.44743	2.752832845	1.246	0.47424	2.627861673		1.2284	0.45973	2.672003132		1.2289	0.44901	2.736910051	
36	1.2565	0.45986	2.73235325	1.2668	0.49007	2.580198383		1.2483	0.46254	2.698793618		1.2487	0.44764	2.785050487	
37	1.2778	0.46829	2.72665105	1.2855	0.50323	2.554407943		1.2659	0.46553	2.719266213		1.2836	0.46511	2.759777257	
38	1.2974	0.47789	2.714850698	1.2996	0.51068	2.609323178		1.2862	0.49016	2.624041129		1.3143	0.48205	2.729480566	
39	1.3176	0.49707	2.685733297	1.3144	0.50818	2.568485101		1.3003	0.48395	2.686847813		1.3386	0.49878	2.683748346	
40	1.3307	0.4955	2.685070131	1.3389	0.52299	2.586089191		1.3156	0.49976	2.632463583		1.3498	0.51548	2.618530302	
41	1.3465	0.51191	2.630345178	1.3493	0.53898	2.503432409		1.3281	0.50193	2.645086492		1.3654	0.51786	2.619433824	
42	1.3578	0.51796	2.621437949	1.3571	0.54177	2.50493752		1.3397	0.51515	2.606061766		1.3562	0.52092	2.615372802	
43				1.3631	0.55056	2.475842778		1.3486	0.51613	2.612907601		1.3693	0.53424	2.563380264	
44				1.3678	0.55612	2.459541106		1.3578	0.53681	2.529386561		1.3731	0.54353	2.522398988	
45				1.3705	0.56705	2.416894454		1.3623	0.52938	2.573387737		1.3704	0.55635	2.463197627	
46				1.371	0.56801	2.422218689		1.3695	0.5625	2.434666667		0.6291	0.52808	1.191296773	
47				1.3673	0.57698	2.369752851		1.3697	0.54546	2.511091558		0.6055	0.52897	1.144677392	
48				1.3643	0.59414	2.296260141		1.371	0.55166	2.485226408		0.5925	0.52723	1.123797963	
49								1.3709	0.5699	2.405590739		0.5798	0.52606	1.102155648	
50												0.5507	0.51792	1.063291268	
51												0.5357	0.51272	1.044819785	
52												0.5209	0.50802	1.025353333	
53												0.4882	0.49227	0.9917321795	
54												0.4717	0.48362	0.9753525495	
55												0.4551	0.47474	0.9596299869	
56												0.4206	0.45407	0.9262889982	
57												0.4031	0.44252	0.9191692885	
58												0.3856	0.43093	0.8983075298	
59												0.3682	0.41871	0.8739675814	
60												0.3151	0.37954	0.8302155241	
61												0.2976	0.36592	0.813292523	
62												0.2802	0.35221	0.7955481105	
63												0.263	0.33858	0.7767735838	
64												0.2461	0.32537	0.7563969715	
65												0.1958	0.28313	0.691555116	
66												0.1797	0.28951	0.6667656117	
67												0.1639	0.25602	0.6401843606	
68												0.1485	0.24277	0.611690077	
69												0.1335	0.22981	0.5809146886	
70												0.0768	0.17967	0.4274503256	
71												0.0623	0.15554	0.400540054	
72												0.0519	0.16044	0.3234854511	

Mach: 0.1

Reynold Number: 4000				Reynold Number: 6000				Reynold Number: 8000				Reynold Number: 10000			
Alpha	CL_Re 4000	CD_Re 4000	Cl/Cd	CL_Re 6000	CD_Re 6000	Cl/Cd		CL_Re 8000	CD_Re 8000	Cl/Cd		CL_Re 10000	CD_Re 10000	Cl/Cd	
0	-0.0098	0.07018	-0.1396409233	-0.0237	0.05969	-0.3970514324		-0.0353	0.05355	-0.6591970121		-0.0453	0.04945	-0.9160768453	
1	0.005	0.07226	0.0691495715	-0.0152	0.06196	-0.245319561		-0.0308	0.05598	-0.5501964897		-0.0436	0.052	-0.8384615385	
2	0.0247	0.07551	0.3271089922	0.002	0.06553	0.03052037325		-0.0145	0.0593	-0.2424749164		-0.0274	0.05603	-0.4890237373	
3	0.0489	0.07991	0.6119384307	0.0261	0.07035	0.3710021326		0.0104	0.06408	0.1601724935		-0.0013	0.06141	-0.0216919069	
4	0.0767	0.08538	0.898336847	0.0552	0.07628	0.72639977116		0.0412	0.07116	0.5789769533		0.0312	0.06785	0.4598378777	
5	0.1076</														

NACA_23015_Moderate_Turbulence															
Mach: 0.15															
Reynold Number: 20000				Reynold Number: 40000				Reynold Number: 80000				Reynold Number: 100000			
Alpha	CL_Re 20000	CD_Re 20000	Ci/Cd	CL_Re 40000	CD_Re 40000	Ci/Cd	CL_Re 80000	CD_Re 80000	Ci/Cd	CL_Re 100000	CD_Re 100000	Ci/Cd			
0	-0.0828	0.04014	-2.082780269	0.276	0.0309	8.34986896	0.3343	0.0261	16.22026142	0.3523	0.0183	13.29886846			
1	-0.0867	0.0431	-2.016030928	0.4453	0.0304	14.43904021	0.457	0.0192	23.4118525	0.4265	0.01787	23.7340011			
2	-0.0671	0.04788	-1.401420217	0.5249	0.0314	16.74855414	0.5348	0.0196	26.79358717	0.5242	0.01816	29.41629956			
3	0.1162	0.06033	1.926073264	0.5903	0.0314	17.29056825	0.6167	0.0212	29.08962264	0.6168	0.01917	32.17527387			
4	0.1826	0.06944	2.629606295	0.6487	0.0386	16.80596948	0.6978	0.02304	30.28645833	0.7001	0.02065	33.9031477			
5	0.1832	0.07769	2.358089844	0.636	0.0485	13.11340206	0.777	0.0256	30.3515625	0.781	0.02265	34.4812362			
6	0.0935	0.07709	1.212868076	0.5579	0.0658	8.507166819	0.8508	0.02891	29.42926323	0.8602	0.0252	34.13492603			
7	0.1393	0.08614	1.617134897	0.5093	0.08425	6.045103858	0.9189	0.03308	27.77811366	0.9376	0.02843	32.97924727			
8	0.1849	0.09582	1.929659779	0.5153	0.11983	3.725287059	0.9845	0.03804	25.88065195	1.0132	0.03213	31.53439153			
9	0.2941	0.11467	2.584751025	0.4921	0.12991	3.788007082	1.0051	0.04578	21.95500218	1.0651	0.03696	28.81764069			
10	0.3792	0.13182	2.97649977	0.529	0.14045	3.766494396	0.7628	0.06247	9.249424033	1.0905	0.0446	24.45057265			
11	0.4256	0.14175	3.002469136	0.5436	0.14966	3.632233062	0.6003	0.13902	4.318083729	1.389	0.05154	22.29740009			
12	0.4884	0.15779	3.095253185	0.6224	0.17609	3.534556193	0.6261	0.1512	4.140873016	0.745	0.11539	6.45636537			
13	0.5239	0.16695	3.138058289	0.6428	0.18513	3.472154702	0.6491	0.16357	3.968331601	0.4281	0.12193	3.511030919			
14	0.5687	0.17948	3.168589172	0.6818	0.19833	3.437704835	0.6719	0.17608	3.8185879146	0.418	0.12804	3.264604811			
15	0.6096	0.19198	3.175330764	0.7267	0.21484	3.382517222	0.6961	0.18892	3.686579811	0.4196	0.13568	3.004851748			
16	0.6528	0.2063	3.1643238	0.7766	0.2369	3.278176446	0.7236	0.2019	3.585925452	0.4302	0.14435	2.980256321			
17	0.7065	0.22671	3.116315998	0.8054	0.25048	3.215426381	0.7586	0.21614	3.509762191	0.4482	0.15393	2.911713116			
18	0.7245	0.22986	3.151918559	0.8253	0.25734	3.207041268	0.811	0.23536	3.46478518	0.4942	0.16813	2.939392137			
19	0.7734	0.25113	3.079679847	0.8434	0.26246	3.213442048	0.8487	0.25395	3.341988458	0.5197	0.17635	2.913933277			
20	0.7950	0.25555	3.113285071	0.8699	0.27284	3.188315496	0.8751	0.267	3.27752099	0.5461	0.18347	2.777556518			
21	0.8319	0.26894	3.093255001	0.9014	0.28574	3.154616085	0.9134	0.28325	3.224713151	0.5194	0.19396	2.677595628			
22	0.8716	0.28661	3.041066257	0.9434	0.30769	3.066072996	0.9699	0.30537	3.176146969	0.5371	0.20543	2.614515893			
23	0.9087	0.30442	2.985020695	0.9685	0.32125	3.102874996	1.0026	0.31983	3.134790357	0.572	0.22755	2.5173324			
24	0.9376	0.31321	2.993518725	0.9962	0.3225	3.088992248	1.0608	0.34119	3.109118087	0.5827	0.2396	2.4196999			
25	0.9644	0.31951	3.018371882	1.0346	0.34501	2.998753659	1.0949	0.35803	3.058123621	0.6093	0.25432	2.395805056			
26	0.994	0.33011	3.011117506	1.0585	0.34576	3.06130725	1.1191	0.36295	3.083344813	0.6144	0.26344	2.3322198			
27	1.0273	0.34623	2.967102793	1.0878	0.35758	3.042116449	1.1461	0.37407	3.063865052	0.624	0.2763	2.25841467			
28	1.0581	0.36449	2.977036407	1.1184	0.37016	3.021396153	1.1732	0.38452	3.051076667	0.6465	0.29106	2.221191507			
29	1.1166	0.38361	2.91078975	1.1432	0.37758	3.027277028	1.1971	0.39484	3.031861007	0.6461	0.30123	2.151512104			
30	1.1426	0.38768	2.947276104	1.1741	0.39778	2.951463157	1.2221	0.40628	3.008024023	0.6585	0.31431	2.095053618			
31	1.1684	0.3983	2.933467236	1.1947	0.3981	3.001004773	1.2432	0.41531	2.993426597	0.6695	0.3266	2.049904815			
32	1.1954	0.41197	2.9016718795	1.2411	0.4182	2.967718795	1.265	0.42675	2.964264792	0.6758	0.3398	1.987763986			
33	1.2171	0.41724	2.917026172	1.2654	0.43956	2.878787879	1.2837	0.43506	2.9506275	0.688	0.35314	1.948235827			
34	1.2421	0.43392	2.862509218	1.2817	0.43759	2.828997458	1.3018	0.44443	2.929145197	0.6899	0.36545	1.88780955			
35	1.2608	0.43684	2.886182584	1.3007	0.44903	2.896688417	1.3181	0.44504	2.90304819	0.6974	0.37808	1.848458317			
36	1.2817	0.44919	2.853358267	1.3164	0.45644	2.884059241	1.333	0.46286	2.879920494	0.6998	0.39054	1.791877913			
37	1.2987	0.45645	2.845218534	1.3315	0.46545	2.860672468	1.3459	0.47239	2.849128898	0.7042	0.40244	1.749826061			
38	1.3153	0.46394	2.838993918	1.3448	0.47637	2.8320315723	1.358	0.48101	2.823228128	0.7055	0.41456	1.701843423			
39	1.3308	0.47821	2.782877815	1.3583	0.48346	2.81171751	1.3672	0.48935	2.793910289	0.7071	0.43722	1.617226382			
40	1.3432	0.48003	2.798158649	1.3743	0.49918	2.753115109	1.3759	0.49778	2.764072482	0.7068	0.44701	1.581172851			
41	1.3648	0.49737	2.744033517	1.3808	0.50685	2.72427274	1.3823	0.50565	2.733709087	0.7046	0.45777	1.539209099			
42	1.3733	0.50542	2.717146136							0.7019	0.46725	1.502103686			
43	1.3802	0.51955	2.656529689							0.6933	0.48436	1.431373599			
44	1.3841	0.51957	2.663933637							0.6877	0.49142	1.399413943			
45	1.3876	0.52825	2.626786559							0.6852	0.50879	1.307415633			
46										0.6458	0.51592	1.251744457			
47										0.6351	0.51819	1.229612227			
48										0.6236	0.51887	1.201843465			
49										0.5984	0.51945	1.154209653			
50										0.5849	0.51684	1.132122948			
51										0.5708	0.51347	1.11652093			
52										0.5409	0.50488	1.07113153			
53										0.5254	0.49946	1.051936991			
54										0.5094	0.49271	1.033873881			
55										0.493	0.48482	1.016872241			
56										0.4593	0.46778	0.9818718201			
57										0.4421	0.45888	0.951652637			
58										0.4247	0.44759	0.9468584473			
59										0.407	0.43622	0.9330154509			
60										0.3891	0.42401	0.9176670362			
61										0.3537	0.40018	0.8838522665			
62										0.3359	0.38726	0.8673759232			
63										0.3181	0.37386	0.8506257354			
64										0.3004	0.36033	0.8336802376			
65										0.2827	0.34634	0.8162499278			
66										0.268	0.331942	0.7764072381			
67										0.231	0.30566	0.7659395248			
68										0.2142	0.29174	0.7342153973			
69										0.1976	0.27794	0.7109448082			
70										0.1814	0.26418	0.6866530396			
71										0.1498	0.23789	0.6297028038			
72										0.1346	0.22485	0.5986213031			
73										0.1198	0.21202	0.5650410339			
74										0.1055	0.19971	0.5282659857			
75										0.0916	0.18797	0.4873118051			
										0.0631	0.15687	0.4162412464			
										0.0529	0.15676	0.3374585353			

Mach: 0.29															
Reynold Number: 20000				Reynold Number: 40000				Reynold Number: 80000				Reynold Number: 100000			
Alpha	CL_Re 20000	CD_Re 20000	Ci/Cd	CL_Re 40000	CD_Re 40000	Ci/Cd	CL_Re 80000	CD_Re 80000	Ci/Cd	CL_Re 100000	CD_Re 100000	Ci/Cd			
0	-0.0912	0.04206	-2.168330956	0.3516	0.033	10.65454545	0.3259	0.02127	15.32204984	0.2388	0.01886	12.66171792			
1	-0.0985	0.04498	-2.189862161	0.4638	0.03193	14.52555424	0.4791	0.0204	23.48529412	0.4255	0.01875	22.69333333			
2	-0.0018	0.05304	-0.0339366518	0.5353	0.03341	16.02214906	0.5365	0.02104	25.55418251	0.5592	0.01913	29.23157344			
3	0.1239	0.06294	1.985841468	0.5904	0.0372	15.07806774	0.6421	0.02245	26.051363	0.644	0.02027	31.77109028			
4	0.1804	0.07231	2.633107454	0.6001	0.04485	13.38015808	0.7221	0.02274	29.17466545	0.7287	0.02166	33.1070615			
5	0.1796	0.08025	2.238055419	0.5663	0.05613	10.89087692	0.7974	0.02762	26.87036378	0.8075	0.02424	33.31270267			
6	0.0861	0.07891	1.091116462	0.4937	0.07306	6.757459622	0.8637	0.03164	27.2977244	0.8824	0.02724	32.39353891			
7	0.1334	0.08805	1.515048268	0.4387	0.09295	4.719741797	0.9374	0.03753	24.17799044	0.947	0.03144	30.12086514			
8	0.1806	0.09783	1.846059491	0.2157	0.09194	2.34609628	0.9242	0.04558	20.27643703	0.999	0.03683	27.12462666			
9	0.2954	0.11799	2.503602	0.2189	0.09741	2.247202546	0.6235	0.089	7.06619798	1.0555	0.04264	24.75375235			
10	0.3714	0.13306	2.791222005	0.2808											

NACA_23015_High_Turbulence														
Mach: 0.35														
Reynold Number: 200000				Reynold Number: 500000				Reynold Number: 800000				Reynold Number: 1000000		
Alpha	CL_Re 200000	CD_Re 200000	Cl/Cd	CL_Re 500000	CD_Re 500000	Cl/Cd		CL_Re 800000	CD_Re 800000	Cl/Cd		CL_Re 1000000	CD_Re 1000000	Cl/Cd
0	0.1226	0.0119	10.30252101	0.1227	0.00823	14.90869699		0.1277	0.00749	17.0493992		0.1298	0.00724	17.9281768
1	0.254	0.01304	19.47852761	0.2323	0.00871	26.07049369		0.2395	0.00776	30.86340206		0.2432	0.00746	32.60053619
2	0.5915	0.01593	37.131199	0.3443	0.00949	36.28029505		0.3548	0.00828	42.85024155		0.3697	0.00785	45.82165605
3	0.7553	0.01706	44.27315358	0.4644	0.01047	44.35530086		0.4699	0.00888	52.91666667		0.4763	0.00835	57.04191617
4	0.8385	0.01836	45.66993464	0.6084	0.01156	52.62975779		0.5852	0.00962	60.83160083		0.5929	0.00894	66.31991051
5	0.9196	0.02026	45.3899309	0.7721	0.01275	60.55686275		0.7232	0.01063	68.03386642		0.715	0.0097	73.71314021
6	0.9989	0.02238	44.63360143	0.9308	0.01406	66.20199147		0.8797	0.01159	75.90163934		0.864	0.01073	80.52190121
7	1.0696	0.02498	42.8162546	1.0279	0.0151	68.07284768		1.0356	0.01266	81.80094787		1.0158	0.01165	87.19313305
8	1.1378	0.02856	39.80993557	1.0979	0.01638	67.02075702		1.1368	0.01385	82.07942238		1.1622	0.01276	91.98180547
9	1.1979	0.03205	37.37597504	1.1656	0.01792	65.04464266		1.2099	0.01478	81.86062246		1.2278	0.0139	88.33093525
10	1.1986	0.03631	31.26687027	1.2355	0.01965	62.87531807		1.2774	0.01627	78.51259968		1.3066	0.01493	87.51507033
11	1.2231	0.04465	27.39305711	1.3003	0.02243	57.97146679		1.3508	0.01838	73.49292709		1.3807	0.01671	82.62716936
12	0.7735	0.13528	5.71777055	1.3622	0.02596	52.47303544		1.4279	0.02106	67.80151947		1.4551	0.01933	75.27677186
13	0.7601	0.15602	4.871811306	1.4082	0.0317	44.42271293		1.4881	0.02548	58.40266876		1.5192	0.02328	65.25773196
14	0.7686	0.17306	4.441234254	1.4292	0.04085	34.98653611		1.5257	0.03273	46.61472655		1.5633	0.02965	52.72512648
15	0.7898	0.1883	4.194370685	1.4147	0.05494	25.74909899		1.5243	0.04488	33.96393074		1.5689	0.04073	38.51951878
16	0.8175	0.20259	4.035243595	1.362	0.07466	18.24270024		1.4661	0.06428	22.80802738		1.5111	0.05968	25.32004021
17	0.8522	0.21535	3.957278648	1.2821	0.09913	12.93352164		1.3558	0.09113	14.87764732		1.4032	0.08572	16.36957536
18	0.8609	0.23778	3.620573639	1.1989	0.12586	9.548423065		1.2679	0.11897	10.8395151		1.2925	0.114	11.5377193
19	0.9005	0.24951	3.633120917	1.1411	0.15021	7.586970566		1.2046	0.14119	8.531765706		1.2175	0.13656	8.72386474
20	0.921	0.27053	3.40317038	1.1011	0.17387	6.332829331		1.168	0.1629	7.170042971		1.1763	0.16183	7.2687388
21	0.9505	0.28695	3.312423767	1.0637	0.19935	5.335841485		1.1479	0.18333	6.261386571		1.1572	0.18191	6.361387499
22	0.9996	0.30222	3.30752432	1.0383	0.22491	4.616513272		1.14	0.20248	5.630185697		1.151	0.2006	5.73778664
23	1.021	0.3149	3.242299143	1.0101	0.28436	3.552187368		1.1363	0.22174	5.1244701		1.1524	0.21847	5.274866114
24	1.0523	0.33023	3.186566938	1.0624	0.32178	3.301634657		1.1289	0.24318	4.642240316		1.154	0.23724	4.864272467
25	1.0946	0.34501	3.172661662	1.0939	0.33695	3.246475738		1.0737	0.28314	3.792116874		1.1504	0.25833	4.453218751
26	1.1207	0.35546	3.152816069	1.1236	0.35368	3.178883058		1.0831	0.30681	3.530197842		1.1067	0.29577	3.741758799
27	1.1522	0.36913	3.121393547	1.158	0.3625	3.1944682759		1.101	0.32972	3.339196894		1.1332	0.34219	3.316160509
28	1.1857	0.38049	3.116244642	1.1868	0.37962	3.16264179		1.13	0.34473	3.277927654		1.1604	0.35878	3.234295996
29	1.2144	0.39425	3.080270011	1.2165	0.38719	3.142650514		1.1579	0.36275	3.192005513		1.1891	0.375	3.170830547
30	1.2455	0.40709	3.05650008	1.246	0.40455	3.079965394		1.1899	0.37223	3.196679472		1.2185	0.39032	3.121797499
31	1.2719	0.41878	3.037155547	1.2737	0.41399	3.078875496		1.2181	0.39014	3.122212539		1.2028	0.39342	2.989055347
32	1.2983	0.43086	3.013275774	1.3004	0.4296	3.027001862		1.247	0.39845	3.129627306		1.2147	0.34634	2.963579142
33	1.324	0.44356	2.984940031	1.3245	0.43852	3.020386755		1.2703	0.35261	2.914406852		1.2188	0.36601	1.963880768
34	1.3472	0.45491	2.961464905	1.3496	0.45493	2.966610248		1.2709	0.36247	1.98885425		1.2277	0.37588	1.93599021
35	1.3702	0.46755	2.930996568	1.3703	0.46378	2.954633663		1.2745	0.38232	1.895009416		1.2307	0.39591	1.84562148
36	1.4102	0.49124	2.870984569	1.3925	0.47875	2.908616188		1.2714	0.39296	1.861258143		1.2361	0.40631	1.811670892
37	1.4265	0.5009	2.847873827	1.4111	0.48965	2.881854386		1.2746	0.41151	1.785132804		1.2385	0.42459	1.739324996
38	1.4426	0.51301	2.812030955	1.4256	0.49731	2.866622429		1.2785	0.42339	1.744255476		1.2411	0.43697	1.695997437
39	1.4578	0.52367	2.783614234	1.4447	0.51517	2.815010551		1.2802	0.43925	1.640810883		1.2426	0.44707	1.660371421
40				1.3786	0.4905	1.950810398		1.2719	0.45236	1.640101691		1.2424	0.46478	1.597314859
41				0.7357	0.50111	1.468140728		1.2422	0.46206	1.606284998		1.2415	0.47556	1.5692144
42				0.7313	0.5084	1.438434304		1.241	0.47505	1.559835807		1.2393	0.48361	1.528711152
43				0.7262	0.52013	1.396189414		1.2393	0.48826	1.511057515		1.2365	0.49985	1.473442033
44				0.7205	0.52973	1.360126857		1.2361	0.4977	1.479003416		1.2324	0.50959	1.437233855
45				0.7132	0.53574	1.331242767		1.2317	0.50737	1.442142815		1.2289	0.51606	1.400585715
46				0.6963	0.54941	1.267359531		1.2271	0.52002	1.388215453		1.2205	0.52485	1.372777317
47				0.6866	0.55412	1.239081787		1.2209	0.52771	1.366091224		1.2142	0.53612	1.332164441
48				0.6757	0.55613	1.215003686		1.2132	0.53162	1.3415959761		1.2059	0.54146	1.303697411
49				0.6519	0.56061	1.162840477		1.2053	0.54111	1.303431635		1.1963	0.54381	1.280410437
50				0.6302	0.5619	1.138805252		1.1989	0.54873	1.270233509		1.1893	0.5491	1.249883413
51				0.6254	0.56937	1.118043513		1.1889	0.55237	1.243505519		1.1875	0.55626	1.216157912
52				0.6104	0.55467	1.100474156		1.1755	0.5526	1.222403185		1.185	0.55832	1.19107322
53				0.5806	0.54944	1.056712289		1.1642	0.55679	1.192909355		1.1714	0.55689	1.171146905
54				0.5647	0.54391	1.038223235		1.1525	0.56022	1.164721002		1.1622	0.55639	1.123672244
55				0.5481	0.53636	1.021888284		1.1395	0.56015	1.141658484		1.1516	0.55653	1.098952437
56				0.5306	0.52633	1.008112781		1.1255	0.55734	1.122295188		1.1405	0.55528	1.079481704
57				0.4962	0.51015	0.9726551014								