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17x8N                          (17x8N.dat)
v2022-0915
Simulation Date: 09/22/2022

AIRFOIL AERO DATA GENERATED USING:  POLAR DIAGRAMS

====== PERFORMANCE DATA (versus advance ratio and MPH) ======

DEFINITIONS:
J=V/nD (advance ratio)
Ct=T/(rho * n**2 * D**4) (thrust coef.)
Cp=P/(rho * n**3 * D**5) (power coef.)
Pe=Ct*J/Cp (efficiency)
V  (model speed in MPH)
Mach (at prop tip)
Reyn (at 75% of span)
FOM (Figure of Merit)


PROP RPM =        1000
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Thrust (Lbf)	V (mph)	PWR (W)	J (Adv_Ratio)	Torque (N-m)	Pe (–)	Thrust (N)	Ct (–)	THR/PWR (g/W)	Cp (–)	Mach (–)	PWR (Hp)	Reyn (–)	Torque (In-Lbf)	FOM (–)
0.214	0.00	2.813	0.0000	0.027	0.0000	0.951	0.0803	34.457	0.0330	0.07	0.004	29265.	0.238	0.5498
0.210	0.35	2.836	0.0220	0.027	0.0522	0.934	0.0789	33.594	0.0333	0.07	0.004	29281.	0.240	0.5315
0.206	0.71	2.858	0.0440	0.027	0.1017	0.917	0.0775	32.728	0.0335	0.07	0.004	29300.	0.242	0.5129
0.202	1.06	2.876	0.0660	0.027	0.1485	0.899	0.0759	31.860	0.0338	0.07	0.004	29319.	0.243	0.4943
0.198	1.42	2.891	0.0880	0.028	0.1926	0.879	0.0742	30.992	0.0339	0.07	0.004	29340.	0.244	0.4755
0.193	1.77	2.903	0.1101	0.028	0.2340	0.858	0.0724	30.125	0.0341	0.07	0.004	29362.	0.245	0.4566
0.188	2.13	2.910	0.1321	0.028	0.2727	0.835	0.0705	29.260	0.0342	0.07	0.004	29386.	0.246	0.4376
0.182	2.48	2.913	0.1541	0.028	0.3088	0.811	0.0685	28.397	0.0342	0.07	0.004	29412.	0.246	0.4186
0.177	2.83	2.910	0.1761	0.028	0.3422	0.786	0.0664	27.535	0.0342	0.07	0.004	29439.	0.246	0.3995
0.171	3.19	2.902	0.1981	0.028	0.3729	0.759	0.0641	26.675	0.0341	0.07	0.004	29468.	0.245	0.3803
0.164	3.54	2.887	0.2201	0.028	0.4010	0.731	0.0617	25.815	0.0339	0.07	0.004	29499.	0.244	0.3612
0.158	3.90	2.865	0.2421	0.027	0.4264	0.701	0.0592	24.954	0.0336	0.07	0.004	29532.	0.242	0.3419
0.151	4.25	2.836	0.2641	0.027	0.4490	0.670	0.0566	24.089	0.0333	0.07	0.004	29566.	0.240	0.3227
0.143	4.61	2.799	0.2861	0.027	0.4689	0.637	0.0538	23.220	0.0329	0.07	0.004	29602.	0.237	0.3034
0.136	4.96	2.755	0.3081	0.026	0.4859	0.604	0.0510	22.342	0.0323	0.07	0.004	29641.	0.233	0.2841
0.128	5.31	2.703	0.3302	0.026	0.4999	0.569	0.0480	21.453	0.0317	0.07	0.004	29681.	0.228	0.2647
0.120	5.67	2.643	0.3522	0.025	0.5107	0.532	0.0450	20.547	0.0310	0.07	0.004	29723.	0.223	0.2454
0.111	6.02	2.575	0.3742	0.025	0.5181	0.495	0.0418	19.620	0.0302	0.07	0.003	29767.	0.218	0.2260
0.103	6.38	2.499	0.3962	0.024	0.5219	0.457	0.0386	18.664	0.0293	0.07	0.003	29812.	0.211	0.2066
	6.73		0.4182		0.5215		0.0353		0.0283		0.003		0.204	

Thrust (Lbf)	V (mph)	PWR (W)	J (Adv_Ratio)	Torque (N-m)	Pe	Thrust (N)	Ct	THR/PWR (g/W)	Cp	Mach	PWR (Hp)	Reyn	Torque (In-Lbf)	FOM
0.094	7.09	2.415	0.4402	0.023	0.5167	0.418	0.0320	17.671	0.0273	0.07	0.003	29860.	0.196	0.1871
0.085	7.44	2.322	0.4622	0.022	0.5065	0.379	0.0286	16.630	0.0261	0.07	0.003	29910.	0.188	0.1675
0.076	7.80	2.222	0.4842	0.021	0.4903	0.338	0.0251	15.528	0.0248	0.07	0.003	29962.	0.179	0.1478
0.067	8.15	2.113	0.5062	0.020	0.4667	0.297	0.0216	14.347	0.0234	0.07	0.003	30016.	0.169	0.1280
0.057	8.50	1.996	0.5282	0.019	0.4341	0.256	0.0180	13.063	0.0220	0.07	0.003	30072.	0.158	0.1081
0.048	8.86	1.871	0.5503	0.018	0.3902	0.214	0.0145	11.644	0.0204	0.07	0.002	30130.	0.147	0.0881
0.039	9.21	1.738	0.5723	0.017	0.3315	0.171	0.0109	10.047	0.0187	0.07	0.002	30190.	0.135	0.0680
0.029	9.57	1.597	0.5943	0.015	0.2531	0.129	0.0072	8.208	0.0170	0.07	0.002	30252.	0.122	0.0482
0.019	9.92	1.448	0.6163	0.014	0.1471	0.086	0.0036	6.035	0.0152	0.07	0.002	30316.	0.109	0.0289
0.010	10.28	1.292	0.6383	0.012	0.0006	0.043	0.0000	3.383	0.0133	0.07	0.002	30382.	0.095	0.0115
0.000		1.129		0.011		0.000		0.014		0.07		30450.		0.0000


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     PROP RPM =        2000
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Thrust (Lbf)	V (mph)	PWR (W)	J (Adv_Ratio)	Torque (N-m)	Pe	Thrust (N)	Ct	THR/PWR (g/W)	Cp	Mach	PWR (Hp)	Reyn	Torque (In-Lbf)	FOM
	0.00		0.0000		0.0000		0.0807		0.0290		0.027		0.836	
0.859	0.71	19.780	0.0221	0.094	0.0599	3.821	0.0793	19.698	0.0293	0.13	0.027	58529.	0.845	0.6301
0.845	1.43	19.993	0.0443	0.095	0.1164	3.756	0.0779	19.159	0.0296	0.13	0.027	58563.	0.853	0.6077
0.829	2.14	20.189	0.0664	0.096	0.1696	3.687	0.0763	18.622	0.0299	0.13	0.027	58599.	0.861	0.5852
0.812	2.85	20.365	0.0886	0.097	0.2195	3.613	0.0746	18.090	0.0301	0.13	0.028	58638.	0.867	0.5627
0.794	3.56	20.515	0.1107	0.098	0.2663	3.533	0.0728	17.562	0.0303	0.13	0.028	58680.	0.872	0.5403
0.775	4.28	20.634	0.1328	0.099	0.3099	3.448	0.0709	17.041	0.0304	0.13	0.028	58725.	0.876	0.5179
0.755	4.99	20.720	0.1550	0.099	0.3504	3.358	0.0689	16.526	0.0305	0.13	0.028	58774.	0.878	0.4956
0.733	5.70	20.765	0.1771	0.099	0.3879	3.262	0.0667	16.017	0.0305	0.14	0.028	58826.	0.878	0.4734
0.710	6.42	20.767	0.1993	0.099	0.4224	3.160	0.0644	15.515	0.0304	0.14	0.028	58881.	0.876	0.4513
0.686	7.13	20.720	0.2214	0.099	0.4540	3.052	0.0620	15.019	0.0303	0.14	0.028	58939.	0.871	0.4294
0.660	7.84	20.619	0.2435	0.098	0.4828	2.938	0.0595	14.529	0.0300	0.14	0.027	59002.	0.865	0.4076
0.634	8.55	20.461	0.2657	0.098	0.5087	2.818	0.0569	14.044	0.0297	0.14	0.027	59067.	0.855	0.3858
0.605	9.27	20.241	0.2878	0.097	0.5317	2.692	0.0541	13.564	0.0293	0.14	0.027	59137.	0.843	0.3642
0.576	9.98	19.957	0.3100	0.095	0.5517	2.561	0.0512	13.087	0.0288	0.14	0.026	59210.	0.829	0.3428
0.545	10.69	19.607	0.3321	0.094	0.5688	2.425	0.0482	12.611	0.0282	0.14	0.026	59287.	0.811	0.3214
0.513	11.41	19.191	0.3542	0.092	0.5828	2.284	0.0452	12.135	0.0274	0.14	0.025	59368.	0.791	0.3001
0.481	12.12	18.707	0.3764	0.089	0.5935	2.138	0.0420	11.656	0.0266	0.14	0.024	59453.	0.767	0.2789

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  0.447      18.155        0.087         1.989         11.171            0.14        59542.      0.2578
  12.83      0.3985       0.6006        0.0388        0.0257           0.024        0.741
  0.413      17.532        0.084         1.836         10.677            0.14        59635.      0.2367
  13.54      0.4207       0.6037        0.0355        0.0247           0.023        0.712
  0.377      16.839        0.080         1.679         10.168            0.14        59732.      0.2156
  14.26      0.4428       0.6024        0.0321        0.0236           0.022        0.679
  0.342      16.075        0.077         1.519          9.638            0.14        59832.      0.1944
  14.97      0.4649       0.5959        0.0287        0.0224           0.020        0.644
  0.305      15.239        0.073         1.357          9.080            0.14        59937.      0.1731
  15.68      0.4871       0.5832        0.0252        0.0210           0.019        0.606
  0.268      14.330        0.068         1.192          8.482            0.14        60046.      0.1516
  16.40      0.5092       0.5627        0.0216        0.0196           0.018        0.564
  0.230      13.349        0.064         1.025          7.829            0.14        60160.      0.1297
  17.11      0.5314       0.5325        0.0181        0.0180           0.016        0.520
  0.192      12.296        0.059         0.856          7.099            0.14        60277.      0.1075
  17.82      0.5535       0.4891        0.0145        0.0164           0.015        0.472
  0.154      11.172        0.053         0.686          6.260            0.14        60398.      0.0848
  18.53      0.5756       0.4274        0.0109        0.0146           0.013        0.422
  0.116       9.978        0.048         0.515          5.260            0.14        60524.      0.0618
  19.25      0.5978       0.3387        0.0072        0.0128           0.012        0.368
  0.077       8.719        0.042         0.343          4.014            0.14        60653.      0.0385
  19.96      0.6199       0.2074        0.0036        0.0108           0.010        0.313
  0.039       7.395        0.035         0.172          2.370            0.14        60787.      0.0161
  20.67      0.6421       0.0018        0.0000        0.0088           0.008        0.254
  0.000       6.010        0.029         0.001          0.019            0.14        60922.      0.0000


        PROP RPM =         3000

              V             J            Pe            Ct            Cp          PWR         Torque
 Thrust      PWR         Torque        Thrust        THR/PWR        Mach         Reyn         FOM
            (mph)      (Adv_Ratio)       -             -             -          (Hp)       (In-Lbf)
 (Lbf)       (W)          (N-m)         (N)           (g/W)          -            -            -
            0.00       0.0000        0.0000        0.0810        0.0274         0.085        1.778
  1.941      63.109        0.201         8.636         13.954            0.20        87792.      0.6711
            1.07       0.0222        0.0637        0.0797        0.0278         0.086        1.799
  1.909      63.869        0.203         8.490         13.555            0.20        87842.      0.6464
            2.14       0.0444        0.1237        0.0782        0.0281         0.087        1.819
  1.874      64.573        0.206         8.334         13.161            0.20        87897.      0.6218
            3.22       0.0666        0.1801        0.0766        0.0283         0.087        1.837
  1.836      65.205        0.208         8.166         12.771            0.20        87956.      0.5973
            4.29       0.0888        0.2329        0.0750        0.0286         0.088        1.852
  1.796      65.750        0.209         7.987         12.387            0.20        88020.      0.5729
            5.36       0.1110        0.2823        0.0732        0.0288         0.089        1.865
  1.753      66.192        0.211         7.795         12.009            0.20        88088.      0.5487
            6.43       0.1332        0.3282        0.0712        0.0289         0.089        1.874
  1.707      66.516        0.212         7.591         11.637            0.20        88161.      0.5247
            7.51       0.1554        0.3709        0.0692        0.0290         0.089        1.879
  1.658      66.704        0.212         7.374         11.272            0.20        88239.      0.5009
            8.58       0.1776        0.4104        0.0670        0.0290         0.090        1.880
  1.606      66.740        0.212         7.143         10.914            0.20        88322.      0.4774
            9.65       0.1998        0.4469        0.0647        0.0290         0.089        1.877
  1.551      66.608        0.212         6.899         10.562            0.20        88410.      0.4540
           10.72       0.2220        0.4802        0.0623        0.0288         0.089        1.868
  1.493      66.292        0.211         6.641         10.216            0.20        88504.      0.4308
           11.80       0.2442        0.5107        0.0598        0.0286         0.088        1.853
  1.432      65.776        0.209         6.370          9.875            0.20        88603.      0.4079
           12.87       0.2664        0.5382        0.0571        0.0283         0.087        1.833
  1.368      65.046        0.207         6.086          9.540            0.20        88708.      0.3852
           13.94       0.2886        0.5628        0.0543        0.0279         0.086        1.806
  1.301      64.094        0.204         5.789          9.209            0.20        88819.      0.3626
           15.01       0.3109        0.5846        0.0514        0.0273         0.084        1.773
  1.232      62.913        0.200         5.480          8.882            0.20        88935.      0.3403
           16.09       0.3331        0.6034        0.0484        0.0267         0.082        1.733
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Thrust (Lbf)	PWR (W)	Torque (N-m)	Thrust (N)	THR/PWR (g/W)	Mach	Reyn	FOM
1.160	61.500	0.196	5.160	8.556	0.20	89057.	0.3181
17.16	0.3553	0.6191	0.0453	0.0260		0.080	1.686
1.086	59.851	0.191	4.831	8.231	0.20	89185.	0.2961
18.23	0.3775	0.6317	0.0422	0.0252		0.078	1.633
1.010	57.961	0.184	4.493	7.904	0.20	89319.	0.2742
19.30	0.3997	0.6408	0.0389	0.0243		0.075	1.573
0.932	55.826	0.178	4.146	7.573	0.20	89459.	0.2523
20.37	0.4219	0.6462	0.0356	0.0232		0.072	1.506
0.852	53.444	0.170	3.791	7.234	0.20	89605.	0.2305
21.45	0.4441	0.6472	0.0322	0.0221		0.068	1.432
0.771	50.811	0.162	3.430	6.884	0.20	89757.	0.2086
22.52	0.4663	0.6433	0.0287	0.0208		0.064	1.350
0.689	47.926	0.153	3.062	6.516	0.20	89916.	0.1866
23.59	0.4885	0.6333	0.0252	0.0195		0.060	1.262
0.605	44.786	0.143	2.689	6.123	0.20	90080.	0.1643
24.66	0.5107	0.6157	0.0217	0.0180		0.056	1.166
0.520	41.392	0.132	2.311	5.694	0.20	90251.	0.1417
25.74	0.5329	0.5882	0.0181	0.0164		0.051	1.063
0.434	37.745	0.120	1.930	5.213	0.21	90427.	0.1185
26.81	0.5551	0.5470	0.0145	0.0147		0.045	0.954
0.347	33.849	0.108	1.545	4.654	0.21	90611.	0.0947
27.88	0.5773	0.4859	0.0109	0.0129		0.040	0.837
0.260	29.710	0.095	1.158	3.976	0.21	90800.	0.0700
28.95	0.5995	0.3938	0.0072	0.0110		0.034	0.714
0.173	25.337	0.081	0.771	3.103	0.21	90995.	0.0446
30.03	0.6217	0.2487	0.0036	0.0090		0.028	0.584
0.086	20.743	0.066	0.384	1.889	0.21	91197.	0.0192
31.10	0.6439	-0.0012	0.0000	0.0069		0.021	0.449
0.000	15.928	0.051	-0.001	-0.009	0.21	91399.	0.0000

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        PROP RPM =        4000
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Thrust (Lbf)	V PWR (mph) (W)	J Torque (Adv_Ratio) (N-m)	Pe Thrust – (N)	Ct THR/PWR – (g/W)	Cp – –	Mach –	PWR Reyn (Hp) –	Torque FOM (In-Lbf) –
	0.00	0.0000	0.0000	0.0815	0.0266		0.195	3.067
3.470	145.155	0.347	15.434	10.843		0.27	117052.	0.6971
	1.43	0.0222	0.0661	0.0801	0.0270		0.197	3.107
3.412	147.018	0.351	15.176	10.526		0.27	117120.	0.6711
	2.86	0.0445	0.1282	0.0786	0.0273		0.199	3.143
3.349	148.747	0.355	14.897	10.213		0.27	117193.	0.6451
	4.30	0.0667	0.1865	0.0771	0.0276		0.202	3.176
3.282	150.303	0.359	14.599	9.904		0.27	117272.	0.6193
	5.73	0.0890	0.2411	0.0754	0.0278		0.203	3.204
3.210	151.651	0.362	14.279	9.601		0.27	117357.	0.5938
	7.16	0.1112	0.2921	0.0736	0.0280		0.205	3.228
3.133	152.752	0.365	13.937	9.304		0.27	117448.	0.5684
	8.59	0.1334	0.3395	0.0716	0.0282		0.206	3.245
3.051	153.568	0.367	13.572	9.012		0.27	117546.	0.5434
	10.02	0.1557	0.3835	0.0696	0.0283		0.207	3.255
2.964	154.057	0.368	13.184	8.727		0.27	117651.	0.5186
	11.46	0.1779	0.4243	0.0674	0.0283		0.207	3.258
2.871	154.182	0.368	12.772	8.447		0.27	117762.	0.4940
	12.89	0.2002	0.4618	0.0651	0.0282		0.206	3.252
2.773	153.900	0.367	12.336	8.173		0.27	117880.	0.4698
	14.32	0.2224	0.4963	0.0627	0.0281		0.205	3.237
2.670	153.174	0.366	11.875	7.906		0.27	118006.	0.4459
	15.75	0.2446	0.5279	0.0601	0.0279		0.204	3.211
2.561	151.965	0.363	11.390	7.643		0.27	118139.	0.4222
	17.19	0.2669	0.5564	0.0574	0.0276		0.201	3.175
2.446	150.239	0.359	10.882	7.386		0.27	118279.	0.3987
	18.62	0.2891	0.5821	0.0546	0.0271		0.198	3.127

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2.327      147.976      0.353      10.350       7.133        0.27      118427.     0.3755
20.05      0.3114       0.6050     0.0517       0.0266                 0.195       3.067
2.203      145.161      0.347       9.798       6.883        0.27      118583.     0.3526
21.48      0.3336       0.6249     0.0487       0.0260                 0.190       2.996
2.074      141.781      0.338       9.227       6.636        0.27      118746.     0.3299
22.91      0.3558       0.6419     0.0456       0.0253                 0.185       2.912
1.942      137.828      0.329       8.638       6.390        0.27      118917.     0.3074
24.35      0.3781       0.6558     0.0424       0.0244                 0.179       2.817
1.806      133.290      0.318       8.032       6.145        0.27      119097.     0.2850
25.78      0.4003       0.6664     0.0391       0.0235                 0.172       2.708
1.666      128.160      0.306       7.412       5.897        0.27      119284.     0.2627
27.21      0.4226       0.6734     0.0358       0.0225                 0.164       2.587
1.524      122.427      0.292       6.777       5.645        0.27      119479.     0.2405
28.64      0.4448       0.6762     0.0324       0.0213                 0.156       2.453
1.378      116.086      0.277       6.131       5.385        0.27      119683.     0.2182
30.07      0.4670       0.6743     0.0289       0.0200                 0.146       2.306
1.230      109.129      0.261       5.473       5.114        0.27      119894.     0.1958
31.51      0.4893       0.6665     0.0254       0.0186                 0.136       2.146
1.080      101.554      0.242       4.806       4.825        0.27      120114.     0.1731
32.94      0.5115       0.6513     0.0218       0.0171                 0.125       1.973
0.928       93.360      0.223       4.130       4.511        0.27      120343.     0.1500
34.37      0.5338       0.6264     0.0182       0.0155                 0.113       1.787
0.775       84.552      0.202       3.447       4.157        0.27      120579.     0.1263
35.80      0.5560       0.5876     0.0146       0.0138                 0.101       1.588
0.620       75.139      0.179       2.759       3.744        0.27      120824.     0.1018
37.23      0.5782       0.5283     0.0109       0.0119                 0.087       1.376
0.465       65.135      0.155       2.067       3.237        0.27      121077.     0.0762
38.67      0.6005       0.4356     0.0073       0.0100                 0.073       1.153
0.309       54.564      0.130       1.375       2.570        0.27      121339.     0.0493
40.10      0.6227       0.2821     0.0036       0.0080                 0.058       0.918
0.154       43.457      0.104       0.684       1.605        0.27      121608.     0.0217
41.53      0.6450      -0.0035     0.0000       0.0058                 0.043       0.672
-0.001      31.799      0.076      -0.006      -0.019        0.28      121876.     0.0000
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          PROP RPM =        5000


               V            J                   Pe          Ct          Cp          PWR        Torque
Thrust        PWR          Torque     Thrust    THR/PWR                 Mach       Reyn        FOM
              (mph)        (Adv_Ratio)   -         -           -                    (Hp)        (In-Lbf)
(Lbf)         (W)          (N-m)      (N)       (g/W)                    -           -           -
              0.00         0.0000     0.0000     0.0820      0.0262                 0.374       4.715
5.457         278.897      0.533      24.274     8.875        0.34      146310.     0.7156
1.79          0.0223       0.0677     0.0806     0.0265                 0.379       4.778
5.366         282.629      0.540      23.869     8.612        0.34      146395.     0.6886
3.58          0.0445       0.1312     0.0792     0.0269                 0.384       4.836
5.268         286.094      0.546      23.434     8.352        0.34      146486.     0.6617
5.38          0.0668       0.1908     0.0776     0.0272                 0.388       4.889
5.163         289.218      0.552      22.966     8.097        0.34      146586.     0.6351
7.17          0.0891       0.2466     0.0759     0.0274                 0.391       4.935
5.050         291.929      0.558      22.464     7.847        0.34      146692.     0.6087
8.96          0.1113       0.2986     0.0741     0.0276                 0.394       4.972
4.930         294.151      0.562      21.928     7.602        0.34      146807.     0.5826
10.75         0.1336       0.3470     0.0722     0.0278                 0.397       5.000
4.801         295.806      0.565      21.356     7.362        0.34      146930.     0.5568
12.54         0.1558       0.3920     0.0701     0.0279                 0.398       5.018
4.664         296.815      0.567      20.746     7.127        0.34      147061.     0.5313
14.34         0.1781       0.4336     0.0679     0.0279                 0.398       5.022
4.519         297.097      0.567      20.099     6.898        0.34      147200.     0.5061
16.13         0.2004       0.4720     0.0656     0.0278                 0.398       5.013
4.365         296.575      0.566      19.414     6.675        0.34      147349.     0.4813
17.92         0.2226       0.5073     0.0631     0.0277                 0.396       4.990
4.202         295.170      0.564      18.690     6.457        0.34      147506.     0.4568
19.71         0.2449       0.5396     0.0606     0.0275                 0.393       4.950
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 4.030      292.805        0.559       17.927         6.243            0.34       147673.     0.4326
 21.50        0.2672      0.5689       0.0579        0.0272       0.388       4.892
 3.851      289.416        0.553       17.127         6.035            0.34       147849.     0.4087
 23.30        0.2894      0.5954       0.0550        0.0268       0.382       4.817
 3.663      284.957        0.544       16.291         5.830            0.34       148034.     0.3851
 25.09        0.3117      0.6191       0.0521        0.0262       0.375       4.723
 3.467      279.399        0.534       15.422         5.629            0.34       148230.     0.3618
 26.88        0.3340      0.6399       0.0491        0.0256       0.366       4.610
 3.265      272.719        0.521       14.523         5.430            0.34       148434.     0.3387
 28.67        0.3562      0.6579       0.0459        0.0249       0.355       4.478
 3.057      264.897        0.506       13.596         5.234            0.34       148649.     0.3158
 30.47        0.3785      0.6728       0.0427        0.0240       0.343       4.326
 2.842      255.912        0.489       12.642         5.038            0.34       148874.     0.2931
 32.26        0.4008      0.6845       0.0394        0.0231       0.330       4.154
 2.623      245.745        0.469       11.665         4.841            0.34       149108.     0.2706
 34.05        0.4230      0.6928       0.0360        0.0220       0.314       3.962
 2.398      234.379        0.448       10.667         4.641            0.34       149353.     0.2481
 35.84        0.4453      0.6970       0.0326        0.0208       0.297       3.749
 2.169      221.799        0.424        9.649         4.436            0.34       149608.     0.2255
 37.63        0.4675      0.6967       0.0291        0.0195       0.279       3.516
 1.937      207.994        0.397        8.614         4.223            0.34       149873.     0.2028
 39.43        0.4898      0.6908       0.0256        0.0181       0.259       3.262
 1.700      192.956        0.369        7.563         3.997            0.34       150149.     0.1799
 41.22        0.5121      0.6777       0.0220        0.0166       0.237       2.987
 1.461      176.686        0.337        6.498         3.750            0.34       150435.     0.1565
 43.01        0.5343      0.6550       0.0183        0.0149       0.213       2.691
 1.219      159.192        0.304        5.423         3.474            0.34       150731.     0.1324
 44.80        0.5566      0.6187       0.0147        0.0132       0.188       2.375
 0.976      140.491        0.268        4.340         3.150            0.34       151038.     0.1074
 46.59        0.5789      0.5615       0.0110        0.0113       0.162       2.039
 0.731      120.615        0.230        3.251         2.749            0.34       151356.     0.0811
 48.39        0.6011      0.4693       0.0073        0.0094       0.134       1.684
 0.486       99.610        0.190        2.161         2.213            0.34       151683.     0.0532
 50.18        0.6234      0.3106       0.0036        0.0073       0.104       1.311
 0.241       77.537        0.148        1.074         1.412            0.34       152020.     0.0239
 51.97        0.6457     -0.0057       0.0000        0.0051       0.073       0.919
-0.003       54.345        0.104       -0.013        -0.025            0.34       152354.     0.0000


      PROP RPM =        6000

                V          J          Pe          Ct          Cp         PWR        Torque
 Thrust       PWR       Torque     Thrust      THR/PWR     Mach        Reyn        FOM
 (mph)     (Adv_Ratio)    -           -           -                    (Hp)       (In-Lbf)
 (Lbf)       (W)        (N-m)       (N)         (g/W)       -           -           -
             0.00       0.0000      0.0000      0.0827      0.0260     0.641       6.739
 7.921      478.348       0.761       35.231        7.510            0.40       175563.     0.7296
  2.15        0.0223      0.0687       0.0813        0.0264       0.650       6.831
 7.790      484.938       0.772       34.648        7.286            0.40       175665.     0.7019
  4.30        0.0446      0.1333       0.0798        0.0267       0.659       6.918
 7.648      491.061       0.782       34.020        7.064            0.40       175776.     0.6743
  6.46        0.0668      0.1938       0.0782        0.0270       0.666       6.995
 7.496      496.583       0.790       33.344        6.847            0.40       175896.     0.6471
  8.61        0.0891      0.2504       0.0765        0.0272       0.672       7.063
 7.334      501.379       0.798       32.620        6.634            0.40       176024.     0.6201
 10.76        0.1114      0.3032       0.0747        0.0275       0.678       7.118
 7.159      505.315       0.804       31.844        6.426            0.40       176162.     0.5935
 12.91        0.1337      0.3523       0.0728        0.0276       0.682       7.160
 6.973      508.252       0.809       31.016        6.223            0.40       176310.     0.5672
 15.07        0.1560      0.3979       0.0707        0.0277       0.684       7.185
 6.775      510.052       0.812       30.133        6.024            0.40       176468.     0.5412
 17.22        0.1783      0.4401       0.0685        0.0277       0.685       7.193
 6.564      510.575       0.813       29.196        5.831            0.41       176636.     0.5156
 19.37        0.2005      0.4791       0.0662        0.0277       0.683       7.180
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 6.340      509.683         0.811        28.202         5.642          0.41       176815.    0.4904
21.52       0.2228       0.5150         0.0637         0.0276        0.680      7.146
 6.104      507.240         0.807        27.153         5.459          0.41       177005.    0.4655
23.67       0.2451       0.5479         0.0611         0.0273        0.675      7.087
 5.856      503.109         0.801        26.047         5.279          0.41       177205.    0.4409
25.83       0.2674       0.5779         0.0584         0.0270        0.667      7.004
 5.595      497.178         0.791        24.885         5.104          0.41       177417.    0.4167
27.98       0.2897       0.6050         0.0555         0.0266        0.656      6.894
 5.322      489.366         0.779        23.672         4.933          0.41       177640.    0.3928
30.13       0.3119       0.6294         0.0526         0.0261        0.643      6.756
 5.038      479.621         0.763        22.411         4.765          0.41       177875.    0.3691
32.28       0.3342       0.6509         0.0495         0.0254        0.627      6.591
 4.745      467.901         0.745        21.104         4.599          0.41       178122.    0.3458
34.44       0.3565       0.6697         0.0464         0.0247        0.609      6.398
 4.442      454.172         0.723        19.757         4.436          0.41       178380.    0.3227
36.59       0.3788       0.6855         0.0431         0.0238        0.588      6.176
 4.130      438.397         0.698        18.372         4.273          0.41       178650.    0.2998
38.74       0.4011       0.6981         0.0398         0.0229        0.564      5.924
 3.811      420.544         0.669        16.953         4.111          0.41       178933.    0.2770
40.89       0.4234       0.7074         0.0364         0.0218        0.537      5.643
 3.485      400.581         0.638        15.502         3.946          0.41       179227.    0.2543
43.04       0.4456       0.7129         0.0329         0.0206        0.508      5.332
 3.153      378.483         0.602        14.023         3.778          0.41       179534.    0.2315
45.20       0.4679       0.7140         0.0294         0.0192        0.475      4.990
 2.814      354.228         0.564        12.518         3.603          0.41       179853.    0.2086
47.35       0.4902       0.7097         0.0258         0.0178        0.440      4.618
 2.471      327.805         0.522        10.990         3.419          0.41       180184.    0.1855
49.50       0.5125       0.6984         0.0222         0.0163        0.401      4.215
 2.123      299.214         0.476         9.443         3.218          0.41       180528.    0.1618
51.65       0.5348       0.6778         0.0185         0.0146        0.360      3.782
 1.772      268.468         0.427         7.880         2.993          0.41       180885.    0.1375
53.81       0.5571       0.6437         0.0148         0.0128        0.316      3.319
 1.418      235.601         0.375         6.305         2.729          0.41       181253.    0.1121
55.96       0.5793       0.5887         0.0111         0.0109        0.269      2.827
 1.062      200.666         0.319         4.723         2.400          0.41       181635.    0.0854
58.11       0.6016       0.4978         0.0074         0.0089        0.220      2.307
 0.705      163.747         0.261         3.138         1.954          0.41       182028.    0.0566
60.26       0.6239       0.3356         0.0037         0.0068        0.168      1.760
 0.350      124.951         0.199         1.556         1.270          0.41       182434.    0.0259
62.42       0.6462      -0.0084        -0.0001         0.0046        0.113      1.185
-0.006       84.145         0.134        -0.025        -0.031          0.41       182831.    0.0000


        PROP RPM =          7000

                V          J          Pe          Ct            Cp          PWR       Torque
Thrust        PWR      Torque       Thrust     THR/PWR     Mach     Reyn         FOM
(mph)      (Adv_Ratio)     -           -            -                (Hp)      (In-Lbf)
(Lbf)        (W)          (N-m)        (N)        (g/W)        -         -          -
            0.00       0.0000      0.0000       0.0834        0.0260      1.018      9.165
10.883      759.030       1.035        48.410         6.504          0.47       204811.    0.7405
 2.51       0.0223       0.0695        0.0821         0.0263        1.032      9.294
10.705      769.724       1.050        47.616         6.308          0.47       204931.    0.7124
 5.03       0.0446       0.1347        0.0806         0.0267        1.046      9.414
10.512      779.655       1.064        46.759         6.116          0.47       205061.    0.6844
 7.54       0.0669       0.1959        0.0790         0.0270        1.058      9.522
10.305      788.611       1.076        45.837         5.927          0.47       205201.    0.6567
10.05       0.0892       0.2530        0.0773         0.0273        1.068      9.616
10.082      796.389       1.086        44.846         5.742          0.47       205352.    0.6293
12.56       0.1115       0.3063        0.0755         0.0275        1.077      9.693
 9.844      802.768       1.095        43.786         5.562          0.47       205513.    0.6023
15.08       0.1338       0.3560        0.0735         0.0276        1.083      9.751
 9.589      807.529       1.102        42.652         5.386          0.47       205687.    0.5756
17.59       0.1561       0.4021        0.0714         0.0277        1.087      9.786
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 9.317      810.447        1.106         41.443        5.214          0.47       205872.    0.5494
          20.10    0.1784        0.4448        0.0692         0.0278         1.088        9.796
 9.028      811.296        1.107         40.158        5.047          0.47       206069.    0.5235
          22.61    0.2007        0.4843        0.0669         0.0277         1.086        9.779
 8.722      809.852        1.105         38.795        4.885          0.47       206278.    0.4979
          25.13    0.2230        0.5206        0.0644         0.0276         1.081        9.731
 8.398      805.897        1.099         37.355        4.727          0.47       206500.    0.4728
          27.64    0.2453        0.5540        0.0618         0.0273         1.072        9.650
 8.057      799.215        1.090         35.837        4.572          0.47       206735.    0.4480
          30.15    0.2676        0.5845        0.0590         0.0270         1.059        9.534
 7.698      789.619        1.077         34.242        4.422          0.47       206983.    0.4235
          32.66    0.2899        0.6122        0.0562         0.0266         1.042        9.382
 7.323      776.980        1.060         32.575        4.275          0.47       207245.    0.3993
          35.18    0.3122        0.6371        0.0532         0.0260         1.021        9.191
 6.934      761.214        1.038         30.841        4.131          0.47       207520.    0.3755
          37.69    0.3345        0.6593        0.0501         0.0254         0.995        8.962
 6.530      742.256        1.013         29.045        3.990          0.47       207808.    0.3519
          40.20    0.3567        0.6787        0.0469         0.0246         0.966        8.694
 6.113      720.046        0.982         27.192        3.851          0.48       208110.    0.3286
          42.71    0.3790        0.6952        0.0436         0.0238         0.931        8.386
 5.685      694.530        0.947         25.287        3.713          0.48       208426.    0.3055
          45.23    0.4013        0.7088        0.0402         0.0228         0.893        8.038
 5.246      665.654        0.908         23.335        3.575          0.48       208756.    0.2826
          47.74    0.4236        0.7190        0.0368         0.0217         0.849        7.648
 4.797      633.368        0.864         21.338        3.435          0.48       209101.    0.2597
          50.25    0.4459        0.7256        0.0333         0.0204         0.801        7.216
 4.340      597.630        0.815         19.302        3.294          0.48       209459.    0.2368
          52.76    0.4682        0.7279        0.0297         0.0191         0.749        6.743
 3.874      558.407        0.762         17.231        3.147          0.48       209832.    0.2138
          55.28    0.4905        0.7249        0.0261         0.0176         0.692        6.227
 3.401      515.681        0.703         15.128        2.991          0.48       210220.    0.1904
          57.79    0.5128        0.7153        0.0224         0.0161         0.630        5.668
 2.922      469.450        0.640         12.998        2.823          0.48       210622.    0.1666
          60.30    0.5351        0.6966        0.0187         0.0144         0.563        5.068
 2.438      419.736        0.573         10.846        2.635          0.48       211038.    0.1420
          62.82    0.5574        0.6647        0.0150         0.0125         0.492        4.426
 1.951      366.593        0.500          8.677        2.414          0.48       211469.    0.1164
          65.33    0.5797        0.6120        0.0112         0.0106         0.416        3.744
 1.461      310.111        0.423          6.498        2.137          0.48       211915.    0.0891
          67.84    0.6020        0.5226        0.0074         0.0086         0.336        3.024
 0.970      250.423        0.342          4.316        1.757          0.48       212375.    0.0597
          70.35    0.6243        0.3581        0.0037         0.0064         0.252        2.266
 0.481      187.706        0.256          2.137        1.161          0.48       212848.    0.0278
          72.87    0.6466       -0.0117       -0.0001         0.0042         0.163        1.469
-0.010      121.664        0.166         -0.044       -0.037          0.48       213308.    0.0000
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          PROP RPM =   8000

Thrust	V	J	Pe	Ct	Cp	Mach	PWR	Torque
	PWR	Torque	Thrust	THR/PWR			Reyn	FOM
(Lbf)	(mph)	(Adv_Ratio)	–	–	–	–	(Hp)	(In–Lbf)
	(W)	(N–m)	(N)	(g/W)	–		–	–
	0.00	0.0000	0.0000	0.0844	0.0261		1.527	12.030
14.375	1138.606	1.359	63.941	5.726	0.54	234053.	0.7494	
	2.87	0.0223	0.0700	0.0830	0.0265		1.549	12.202
14.142	1154.938	1.379	62.904	5.554	0.54	234191.	0.7209	
	5.75	0.0446	0.1356	0.0815	0.0268		1.569	12.362
13.890	1170.097	1.397	61.783	5.384	0.54	234340.	0.6926	
	8.62	0.0669	0.1972	0.0799	0.0271		1.587	12.507
13.619	1183.761	1.413	60.575	5.218	0.54	234501.	0.6647	
	11.49	0.0892	0.2547	0.0782	0.0274		1.603	12.632
13.327	1195.613	1.427	59.277	5.056	0.54	234674.	0.6370	
	14.37	0.1115	0.3084	0.0764	0.0276		1.616	12.735

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13.014      1205.325        1.439         57.884        4.897        0.54      234860.    0.6097
  17.24       0.1339        0.3584        0.0744        0.0278      1.626      12.811
12.678      1212.558        1.447         56.394        4.743        0.54      235058.    0.5829
  20.11       0.1562        0.4049        0.0723        0.0279      1.632      12.858
12.321      1216.969        1.453         54.804        4.592        0.54      235271.    0.5563
  22.99       0.1785        0.4480        0.0701        0.0279      1.634      12.871
11.941      1218.219        1.454         53.112        4.446        0.54      235497.    0.5302
  25.86       0.2008        0.4879        0.0677        0.0279      1.631      12.847
11.537      1215.970        1.451         51.316        4.303        0.54      235738.    0.5045
  28.73       0.2231        0.5246        0.0652        0.0277      1.622      12.783
11.110      1209.889        1.444         49.417        4.165        0.54      235993.    0.4792
  31.61       0.2454        0.5584        0.0626        0.0275      1.609      12.675
10.660      1199.651        1.432         47.414        4.030        0.54      236262.    0.4542
  34.48       0.2677        0.5893        0.0598        0.0272      1.589      12.520
10.186      1184.973        1.414         45.309        3.899        0.54      236547.    0.4295
  37.35       0.2900        0.6175        0.0569        0.0267      1.563      12.316
 9.691      1165.658        1.391         43.107        3.771        0.54      236847.    0.4052
  40.22       0.3123        0.6429        0.0539        0.0262      1.531      12.061
 9.176      1141.579        1.363         40.816        3.646        0.54      237162.    0.3812
  43.10       0.3346        0.6657        0.0507        0.0255      1.492      11.755
 8.643      1112.641        1.328         38.442        3.523        0.54      237493.    0.3575
  45.97       0.3570        0.6857        0.0475        0.0247      1.447      11.397
 8.092      1078.752        1.288         35.993        3.402        0.54      237839.    0.3341
  48.84       0.3793        0.7029        0.0442        0.0238      1.394      10.986
 7.526      1039.834        1.241         33.474        3.283        0.54      238201.    0.3108
  51.72       0.4016        0.7172        0.0408        0.0228      1.335      10.521
 6.945       995.805        1.189         30.891        3.163        0.54      238580.    0.2877
  54.59       0.4239        0.7283        0.0373        0.0217      1.269      10.001
 6.351       946.591        1.130         28.250        3.043        0.54      238974.    0.2647
  57.46       0.4462        0.7359        0.0337        0.0205      1.196       9.426
 5.745       892.129        1.065         25.556        2.921        0.54      239385.    0.2417
  60.34       0.4685        0.7393        0.0301        0.0191      1.116       8.794
 5.129       832.369        0.994         22.814        2.795        0.55      239812.    0.2185
  63.21       0.4908        0.7377        0.0264        0.0176      1.029       8.107
 4.503       767.282        0.916         20.030        2.662        0.55      240255.    0.1950
  66.08       0.5131        0.7296        0.0227        0.0160      0.935       7.363
 3.869       696.867        0.832         17.210        2.518        0.55      240715.    0.1710
  68.96       0.5354        0.7127        0.0190        0.0142      0.833       6.563
 3.228       621.159        0.741         14.360        2.357        0.55      241192.    0.1462
  71.83       0.5577        0.6828        0.0152        0.0124      0.724       5.708
 2.583       540.237        0.645         11.488        2.168        0.55      241686.    0.1203
  74.70       0.5801        0.6323        0.0114        0.0104      0.609       4.799
 1.934       454.240        0.542          8.601        1.931        0.55      242196.    0.0927
  77.58       0.6024        0.5448        0.0075        0.0083      0.487       3.839
 1.283       363.373        0.434          5.709        1.602        0.55      242722.    0.0626
  80.45       0.6247        0.3789        0.0037        0.0061      0.359       2.831
 0.635       267.907        0.320          2.822        1.074        0.55      243264.    0.0295
  83.32       0.6470       -0.0160       -0.0001        0.0038      0.224       1.767
-0.016       167.248        0.200         -0.072       -0.044        0.55      243783.    0.0000


      PROP RPM =        9000


          V           J          Pe        Ct           Cp        PWR        Torque
Thrust       PWR         Torque     Thrust      THR/PWR     Mach      Reyn        FOM
    (mph)    (Adv_Ratio)      -          -            -         -       (Hp)      (In-Lbf)
(Lbf)      (W)          (N-m)       (N)         (g/W)        -         -           -
            0.00      0.0000        0.0000        0.0855        0.0264      2.196      15.381
18.435      1637.779        1.738         81.998        5.105        0.61      263286.    0.7566
            3.23      0.0223        0.0702        0.0841        0.0268      2.228      15.605
18.140      1661.635        1.763         80.687        4.952        0.61      263442.    0.7279
            6.47      0.0446        0.1361        0.0827        0.0271      2.258      15.813
17.821      1683.767        1.787         79.268        4.801        0.61      263611.    0.6995
            9.70      0.0670        0.1979        0.0811        0.0274      2.285      16.000
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17.476      1703.696        1.808         77.735         4.653        0.61      263793.    0.6713
         12.94      0.0893        0.2557         0.0793          0.0277     2.308       16.162
17.106      1720.958        1.826         76.086         4.508        0.61      263989.    0.6436
         16.17      0.1116        0.3096         0.0775          0.0279     2.327       16.295
16.707      1735.071        1.841         74.313         4.367        0.61      264199.    0.6162
         19.40      0.1339        0.3599         0.0755          0.0281     2.341       16.393
16.280      1745.545        1.852         72.414         4.230        0.61      264424.    0.5891
         22.64      0.1562        0.4066         0.0734          0.0282     2.349       16.453
15.824      1751.882        1.859         70.385         4.097        0.61      264664.    0.5625
         25.87      0.1786        0.4500         0.0711          0.0282     2.352       16.469
15.338      1753.591        1.861         68.224         3.967        0.61      264920.    0.5363
         29.11      0.2009        0.4901         0.0687          0.0282     2.347       16.437
14.822      1750.181        1.857         65.929         3.841        0.61      265192.    0.5104
         32.34      0.2232        0.5272         0.0662          0.0280     2.335       16.352
14.276      1741.178        1.847         63.499         3.719        0.61      265480.    0.4850
         35.57      0.2455        0.5614         0.0635          0.0278     2.315       16.211
13.699      1726.111        1.831         60.934         3.600        0.61      265785.    0.4599
         38.81      0.2679        0.5927         0.0607          0.0274     2.286       16.008
13.093      1704.569        1.809         58.237         3.484        0.61      266107.    0.4351
         42.04      0.2902        0.6213         0.0578          0.0270     2.248       15.742
12.458      1676.268        1.779         55.414         3.371        0.61      266445.    0.4107
         45.28      0.3125        0.6472         0.0547          0.0264     2.201       15.411
11.797      1641.025        1.741         52.475         3.261        0.61      266801.    0.3866
         48.51      0.3348        0.6705         0.0515          0.0257     2.144       15.014
11.113      1598.707        1.696         49.429         3.153        0.61      267175.    0.3628
         51.74      0.3571        0.6911         0.0483          0.0249     2.077       14.549
10.406      1549.190        1.644         46.284         3.047        0.61      267566.    0.3392
         54.98      0.3795        0.7090         0.0449          0.0240     2.001       14.015
 9.678      1492.358        1.583         43.049         2.941        0.61      267975.    0.3158
         58.21      0.4018        0.7240         0.0414          0.0230     1.915       13.412
 8.932      1428.100        1.515         39.731         2.837        0.61      268401.    0.2926
         61.45      0.4241        0.7359         0.0379          0.0218     1.819       12.738
 8.169      1356.310        1.439         36.337         2.732        0.61      268846.    0.2695
         64.68      0.4464        0.7444         0.0343          0.0206     1.712       11.992
 7.391      1276.897        1.355         32.874         2.625        0.61      269309.    0.2463
         67.92      0.4687        0.7489         0.0306          0.0192     1.596       11.174
 6.598      1189.790        1.262         29.349         2.515        0.61      269791.    0.2230
         71.15      0.4911        0.7485         0.0269          0.0176     1.468       10.283
 5.793      1094.948        1.162         25.768         2.400        0.61      270291.    0.1994
         74.38      0.5134        0.7419         0.0231          0.0160     1.331        9.320
 4.978       992.369        1.053         22.141         2.275        0.61      270810.    0.1752
         77.62      0.5357        0.7267         0.0193          0.0142     1.183        8.284
 4.153       882.104        0.936         18.474         2.136        0.62      271347.    0.1502
         80.85      0.5580        0.6988         0.0154          0.0123     1.025        7.178
 3.322       764.268        0.811         14.777         1.972        0.62      271903.    0.1240
         84.09      0.5804        0.6506         0.0115          0.0103     0.857        6.002
 2.487       639.065        0.678         11.061         1.765        0.62      272477.    0.0961
         87.32      0.6027        0.5651         0.0077          0.0082     0.680        4.759
 1.650       506.794        0.538          7.337         1.476        0.62      273070.    0.0654
         90.55      0.6250        0.3984         0.0038          0.0059     0.493        3.455
 0.814       367.851        0.390          3.621         1.004        0.62      273680.    0.0313
         93.79      0.6473       -0.0215        -0.0001          0.0036     0.297        2.077
-0.025       221.120        0.235         -0.113        -0.052        0.62      274256.    0.0000
```

         PROP RPM =   10000

	V	J	Pe	Ct	Cp		PWR	Torque
Thrust	PWR	Torque	Thrust	THR/PWR	Mach	Reyn	FOM
	(mph)	(Adv_Ratio)	–	–	–		(Hp)	(In-Lbf)
(Lbf)	(W)	(N-m)	(N)	(g/W)	–	–	–

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                    0.00      0.0000        0.0000          0.0868          0.0268     3.061       19.291
23.112      2282.312        2.179        102.803         4.593        0.67      292509.    0.7622
          3.60      0.0223        0.0702          0.0855          0.0272     3.106       19.574
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22.750     2315.828        2.211        101.191         4.456        0.67      292683.     0.7335
          7.19      0.0447        0.1362        0.0840         0.0275      3.147      19.837
22.356     2346.941        2.241         99.440         4.321        0.67      292872.     0.7051
         10.79      0.0670        0.1980        0.0824         0.0279      3.185      20.074
21.930     2374.968        2.268         97.547         4.188        0.67      293075.     0.6770
         14.38      0.0893        0.2559        0.0807         0.0282      3.217      20.279
21.471     2399.226        2.291         95.503         4.059        0.67      293294.     0.6492
         17.98      0.1117        0.3100        0.0788         0.0284      3.244      20.446
20.976     2419.022        2.310         93.303         3.933        0.67      293530.     0.6218
         21.57      0.1340        0.3604        0.0768         0.0286      3.264      20.570
20.446     2433.645        2.324         90.942         3.811        0.67      293781.     0.5947
         25.17      0.1563        0.4073        0.0747         0.0287      3.275      20.644
19.878     2442.392        2.332         88.415         3.691        0.68      294050.     0.5681
         28.76      0.1787        0.4509        0.0724         0.0287      3.278      20.662
19.271     2444.568        2.334         85.720         3.576        0.68      294336.     0.5418
         32.36      0.2010        0.4913        0.0700         0.0286      3.271      20.619
18.627     2439.500        2.330         82.853         3.463        0.68      294640.     0.5159
         35.95      0.2233        0.5287        0.0674         0.0285      3.254      20.510
17.944     2426.523        2.317         79.815         3.354        0.68      294962.     0.4904
         39.55      0.2457        0.5631        0.0647         0.0282      3.225      20.328
17.223     2404.988        2.297         76.606         3.248        0.68      295303.     0.4653
         43.14      0.2680        0.5948        0.0619         0.0279      3.184      20.068
16.463     2374.321        2.267         73.228         3.145        0.68      295662.     0.4404
         46.74      0.2903        0.6238        0.0589         0.0274      3.130      19.729
15.668     2334.128        2.229         69.690         3.045        0.68      296040.     0.4159
         50.33      0.3127        0.6502        0.0558         0.0268      3.063      19.306
14.839     2284.160        2.181         66.003         2.947        0.68      296437.     0.3918
         53.93      0.3350        0.6740        0.0525         0.0261      2.983      18.800
13.979     2224.232        2.124         62.180         2.851        0.68      296854.     0.3679
         57.52      0.3573        0.6951        0.0492         0.0253      2.889      18.208
13.092     2154.188        2.057         58.232         2.756        0.68      297290.     0.3442
         61.12      0.3797        0.7137        0.0458         0.0243      2.781      17.529
12.178     2073.871        1.980         54.168         2.663        0.68      297746.     0.3208
         64.71      0.4020        0.7294        0.0422         0.0233      2.659      16.762
11.241     1983.129        1.894         49.999         2.571        0.68      298222.     0.2975
         68.31      0.4243        0.7421        0.0386         0.0221      2.524      15.906
10.282     1881.818        1.797         45.733         2.478        0.68      298718.     0.2743
         71.90      0.4467        0.7515        0.0350         0.0208      2.373      14.959
 9.303     1769.814        1.690         41.378         2.384        0.68      299234.     0.2510
         75.50      0.4690        0.7571        0.0312         0.0193      2.209      13.921
 8.306     1647.025        1.573         36.944         2.287        0.68      299770.     0.2275
         79.10      0.4913        0.7579        0.0274         0.0178      2.029      12.792
 7.293     1513.390        1.445         32.439         2.186        0.68      300327.     0.2037
         82.69      0.5137        0.7527        0.0235         0.0161      1.836      11.570
 6.266     1368.909        1.307         27.873         2.076        0.68      300904.     0.1794
         86.29      0.5360        0.7392        0.0196         0.0142      1.628      10.258
 5.229     1213.653        1.159         23.256         1.954        0.68      301502.     0.1542
         89.88      0.5583        0.7133        0.0157         0.0123      1.405       8.856
 4.182     1047.790        1.001         18.600         1.810        0.68      302121.     0.1278
         93.48      0.5807        0.6673        0.0118         0.0102      1.169       7.367
 3.129      871.622        0.832         13.918         1.628        0.69      302760.     0.0994
         97.07      0.6030        0.5840        0.0078         0.0080      0.919       5.795
 2.074      685.610        0.655          9.226         1.372        0.69      303420.     0.0682
        100.67      0.6253        0.4168        0.0038         0.0058      0.658       4.145
 1.021      490.367        0.468          4.542         0.944        0.69      304099.     0.0329
        104.26      0.6477       -0.0291       -0.0001         0.0033      0.381       2.400
-0.040      283.902        0.271         -0.177        -0.064        0.69      304725.     0.0000
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```
         PROP RPM =        11000

             V           J           Pe         Ct          Cp          PWR         Torque
  Thrust        PWR         Torque       Thrust    THR/PWR    Mach      Reyn         FOM
      (mph)    (Adv_Ratio)     -          -          -            -        (Hp)     (In-Lbf)
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```
  (Lbf)       (W)        (N-m)       (N)        (g/W)        -           -          -
             0.00      0.0000      0.0000      0.0884      0.0277      4.206      24.101
 28.470    3136.622     2.723     126.636      4.117       0.74      321717.      0.7582
             3.95      0.0223      0.0693      0.0871      0.0280      4.261      24.415
 28.036    3177.487     2.758     124.705      4.002       0.74      321910.      0.7314
             7.90      0.0446      0.1347      0.0856      0.0284      4.312      24.706
 27.563    3215.340     2.791     122.602      3.888       0.74      322119.      0.7046
            11.86      0.0670      0.1963      0.0840      0.0287      4.357      24.967
 27.050    3249.323     2.821     120.318      3.776       0.74      322344.      0.6778
            15.81      0.0893      0.2540      0.0823      0.0289      4.397      25.192
 26.494    3278.571     2.846     117.846      3.665       0.74      322587.      0.6512
            19.76      0.1116      0.3081      0.0804      0.0291      4.428      25.373
 25.894    3302.175     2.867     115.178      3.557       0.74      322847.      0.6247
            23.71      0.1339      0.3587      0.0784      0.0293      4.451      25.504
 25.249    3319.165     2.881     112.307      3.450       0.74      323126.      0.5984
            27.67      0.1562      0.4059      0.0762      0.0294      4.464      25.576
 24.557    3328.577     2.890     109.228      3.346       0.74      323423.      0.5723
            31.62      0.1786      0.4498      0.0740      0.0294      4.465      25.583
 23.817    3329.439     2.890     105.936      3.245       0.74      323740.      0.5465
            35.57      0.2009      0.4905      0.0715      0.0293      4.453      25.516
 23.028    3320.787     2.883     102.430      3.145       0.74      324076.      0.5210
            39.52      0.2232      0.5282      0.0689      0.0291      4.428      25.370
 22.191    3301.665     2.866      98.707      3.049       0.74      324432.      0.4957
            43.48      0.2455      0.5631      0.0662      0.0288      4.387      25.135
 21.306    3271.123     2.840      94.770      2.954       0.74      324808.      0.4707
            47.43      0.2678      0.5952      0.0633      0.0285      4.329      24.806
 20.373    3228.314     2.803      90.621      2.862       0.74      325205.      0.4459
            51.38      0.2902      0.6246      0.0602      0.0280      4.255      24.378
 19.395    3172.606     2.754      86.271      2.773       0.74      325623.      0.4215
            55.33      0.3125      0.6515      0.0571      0.0274      4.162      23.848
 18.375    3103.594     2.694      81.734      2.685       0.75      326061.      0.3973
            59.29      0.3348      0.6758      0.0538      0.0266      4.051      23.213
 17.317    3021.002     2.623      77.026      2.600       0.75      326521.      0.3734
            63.24      0.3571      0.6975      0.0504      0.0258      3.922      22.472
 16.223    2924.607     2.539      72.160      2.516       0.75      327002.      0.3498
            67.19      0.3794      0.7167      0.0469      0.0248      3.774      21.624
 15.096    2814.195     2.443      67.149      2.433       0.75      327505.      0.3263
            71.14      0.4018      0.7332      0.0433      0.0237      3.607      20.666
 13.940    2689.592     2.335      62.006      2.351       0.75      328029.      0.3030
            75.10      0.4241      0.7468      0.0396      0.0225      3.420      19.599
 12.756    2550.619     2.214      56.740      2.268       0.75      328576.      0.2796
            79.05      0.4464      0.7572      0.0359      0.0211      3.215      18.419
 11.547    2397.114     2.081      51.363      2.185       0.75      329144.      0.2563
            83.00      0.4687      0.7638      0.0320      0.0197      2.989      17.127
 10.316    2229.020     1.935      45.885      2.099       0.75      329735.      0.2327
            86.95      0.4910      0.7659      0.0281      0.0180      2.744      15.724
  9.064    2046.318     1.776      40.318      2.009       0.75      330348.      0.2088
            90.91      0.5134      0.7620      0.0242      0.0163      2.480      14.208
  7.795    1849.099     1.605      34.672      1.912       0.75      330983.      0.1843
            94.86      0.5357      0.7499      0.0202      0.0144      2.196      12.583
  6.511    1637.604     1.422      28.960      1.803       0.75      331641.      0.1588
            98.81      0.5580      0.7255      0.0162      0.0125      1.894      10.852
  5.215    1412.263     1.226      23.196      1.675       0.75      332322.      0.1320
           102.76      0.5803      0.6809      0.0121      0.0104      1.574       9.019
  3.911    1173.734     1.019      17.397      1.511       0.75      333025.      0.1032
           106.72      0.6026      0.5986      0.0081      0.0081      1.238       7.092
  2.604     922.958     0.801      11.581      1.280       0.76      333750.      0.0713
           110.67      0.6250      0.4318      0.0040      0.0058      0.887       5.080
  1.297     661.136     0.574       5.771      0.890       0.76      334496.      0.0350
           114.62      0.6473     -0.0092      0.0000      0.0034      0.519       2.971
 -0.016     386.719     0.336      -0.069     -0.018       0.76      335202.      0.0000


         PROP RPM =       12000
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          V          J          Pe          Ct          Cp              PWR        Torque
 Thrust        PWR        Torque      Thrust       THR/PWR      Mach     Reyn        FOM
         (mph)     (Adv_Ratio)     -            -            -                (Hp)       (In-Lbf)
 (Lbf)        (W)         (N-m)        (N)          (g/W)          -           -           -
          0.00      0.0000      0.0000      0.0902       0.0301           5.937     31.183
 34.580    4427.209      3.523     153.812       3.543      0.81     350907.     0.7191
          4.31      0.0223      0.0655      0.0889       0.0303           5.984     31.432
 34.074    4462.500      3.551     151.560       3.463      0.81     351119.     0.6978
          8.63      0.0447      0.1279      0.0875       0.0305           6.026     31.649
 33.519    4493.290      3.576     149.093       3.384      0.81     351348.     0.6761
          12.94     0.0670      0.1874      0.0859       0.0307           6.060     31.828
 32.914    4518.695      3.596     146.402       3.304      0.81     351596.     0.6542
          17.25     0.0893      0.2438      0.0842       0.0308           6.085     31.962
 32.256    4537.786      3.611     143.474       3.224      0.81     351863.     0.6320
          21.56     0.1116      0.2973      0.0823       0.0309           6.101     32.045
 31.543    4549.624      3.620     140.301       3.145      0.81     352149.     0.6096
          25.88     0.1340      0.3477      0.0803       0.0309           6.106     32.071
 30.772    4553.225      3.623     136.874       3.065      0.81     352456.     0.5869
          30.19     0.1563      0.3953      0.0781       0.0309           6.098     32.031
 29.943    4547.515      3.619     133.187       2.987      0.81     352783.     0.5641
          34.50     0.1786      0.4399      0.0758       0.0308           6.077     31.917
 29.054    4531.401      3.606     129.233       2.908      0.81     353132.     0.5411
          38.82     0.2009      0.4816      0.0733       0.0306           6.040     31.722
 28.105    4503.768      3.584     125.011       2.830      0.81     353501.     0.5179
          43.13     0.2233      0.5206      0.0707       0.0303           5.986     31.439
 27.095    4463.514      3.552     120.519       2.753      0.81     353893.     0.4947
          47.44     0.2456      0.5567      0.0679       0.0300           5.913     31.059
 26.024    4409.519      3.509     115.757       2.677      0.81     354306.     0.4713
          51.75     0.2679      0.5902      0.0650       0.0295           5.821     30.574
 24.894    4340.706      3.454     110.730       2.601      0.81     354742.     0.4480
          56.07     0.2902      0.6210      0.0619       0.0289           5.708     29.979
 23.708    4256.250      3.387     105.452       2.526      0.81     355201.     0.4246
          60.38     0.3126      0.6491      0.0586       0.0282           5.573     29.270
 22.468    4155.579      3.307      99.940       2.452      0.81     355682.     0.4012
          64.69     0.3349      0.6747      0.0553       0.0274           5.415     28.443
 21.181    4038.226      3.214      94.213       2.379      0.81     356186.     0.3779
          69.01     0.3572      0.6977      0.0518       0.0265           5.235     27.496
 19.849    3903.751      3.107      88.288       2.306      0.81     356714.     0.3546
          73.32     0.3795      0.7179      0.0482       0.0255           5.032     26.429
 18.476    3752.218      2.986      82.182       2.233      0.82     357265.     0.3314
          77.63     0.4019      0.7352      0.0445       0.0243           4.805     25.238
 17.066    3583.175      2.851      75.910       2.160      0.82     357839.     0.3080
          81.94     0.4242      0.7495      0.0408       0.0231           4.554     23.921
 15.622    3396.208      2.703      69.485       2.086      0.82     358438.     0.2846
          86.26     0.4465      0.7602      0.0369       0.0217           4.280     22.478
 14.146    3191.362      2.540      62.920       2.010      0.82     359060.     0.2610
          90.57     0.4688      0.7670      0.0330       0.0202           3.981     20.907
 12.641    2968.317      2.362      56.228       1.932      0.82     359706.     0.2370
          94.88     0.4912      0.7686      0.0290       0.0185           3.657     19.210
 11.111    2727.342      2.170      49.421       1.848      0.82     360377.     0.2126
          99.20     0.5135      0.7635      0.0249       0.0168           3.311     17.391
 9.558     2469.134      1.965      42.514       1.756      0.82     361072.     0.1874
          103.51    0.5358      0.7489      0.0208       0.0149           2.943     15.458
 7.986     2194.577      1.746      35.521       1.650      0.82     361791.     0.1610
          107.82    0.5581      0.7201      0.0167       0.0129           2.554     13.417
 6.398     1904.867      1.516      28.459       1.523      0.82     362535.     0.1330
          112.13    0.5805      0.6682      0.0125       0.0109           2.148     11.281
 4.800     1601.569      1.274      21.349       1.359      0.82     363303.     0.1028
          116.45    0.6028      0.5750      0.0083       0.0087           1.725      9.062
 3.195     1286.625      1.024      14.212       1.126      0.82     364095.     0.0695
          120.76    0.6251      0.3969      0.0041       0.0065           1.290      6.778
 1.590      962.313      0.766       7.074       0.750      0.83     364910.     0.0326
          125.07    0.6474     -0.0088     -0.0001       0.0043           0.841      4.416
 -0.022     626.930      0.499      -0.099      -0.016      0.83     365686.     0.0000
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     PROP RPM =       13000

        V          J          Pe         Ct           Cp            PWR        Torque
Thrust      PWR         Torque      Thrust      THR/PWR     Mach      Reyn        FOM
     (mph)      (Adv_Ratio)     -           -           -              (Hp)       (In-Lbf)
(Lbf)       (W)         (N-m)        (N)        (g/W)         -          -           -
        0.00      0.0000      0.0000      0.0920      0.0354            8.883      43.067
41.389    6623.882      4.866     184.099      2.834      0.88     380083.     0.6293
        4.68      0.0224      0.0573      0.0908      0.0355            8.901      43.153
40.827    6637.123      4.875     181.599      2.790      0.88     380312.     0.6153
        9.37      0.0448      0.1128      0.0894      0.0355            8.905      43.174
40.204    6640.421      4.878     178.830      2.746      0.88     380562.     0.6010
       14.05      0.0671      0.1664      0.0879      0.0354            8.895      43.125
39.518    6632.883      4.872     175.776      2.702      0.88     380832.     0.5863
       18.73      0.0895      0.2183      0.0862      0.0353            8.869      43.001
38.765    6613.799      4.858     172.425      2.658      0.88     381123.     0.5713
       23.42      0.1119      0.2684      0.0843      0.0352            8.827      42.798
37.941    6582.528      4.835     168.762      2.614      0.88     381436.     0.5558
       28.10      0.1343      0.3166      0.0824      0.0349            8.768      42.511
37.045    6538.467      4.803     164.777      2.570      0.88     381772.     0.5399
       32.78      0.1566      0.3628      0.0802      0.0346            8.691      42.138
36.075    6481.035      4.761     160.463      2.525      0.88     382131.     0.5234
       37.46      0.1790      0.4071      0.0779      0.0342            8.595      41.674
35.030    6409.624      4.708     155.812      2.479      0.88     382512.     0.5064
       42.15      0.2014      0.4494      0.0754      0.0338            8.480      41.114
33.908    6323.565      4.645     150.822      2.432      0.88     382918.     0.4888
       46.83      0.2238      0.4895      0.0727      0.0332            8.344      40.454
32.710    6222.109      4.571     145.494      2.384      0.88     383347.     0.4707
       51.51      0.2461      0.5275      0.0699      0.0326            8.186      39.689
31.436    6104.396      4.484     139.827      2.336      0.88     383800.     0.4520
       56.20      0.2685      0.5632      0.0669      0.0319            8.005      38.812
30.087    5969.501      4.385     133.827      2.286      0.88     384278.     0.4328
       60.88      0.2909      0.5966      0.0637      0.0311            7.800      37.818
28.667    5816.671      4.273     127.510      2.235      0.88     384780.     0.4131
       65.56      0.3133      0.6277      0.0604      0.0302            7.571      36.705
27.180    5645.375      4.147     120.896      2.184      0.88     385307.     0.3930
       70.25      0.3357      0.6563      0.0570      0.0291            7.316      35.468
25.632    5455.241      4.007     114.010      2.131      0.88     385859.     0.3724
       74.93      0.3580      0.6824      0.0534      0.0280            7.035      34.108
24.027    5245.938      3.853     106.874      2.077      0.88     386436.     0.3515
       79.61      0.3804      0.7059      0.0497      0.0268            6.728      32.620
22.372    5017.115      3.685      99.510      2.023      0.88     387038.     0.3302
       84.29      0.4028      0.7259      0.0459      0.0255            6.400      31.028
20.669    4772.273      3.506      91.934      1.964      0.88     387666.     0.3082
       88.98      0.4252      0.7422      0.0421      0.0241            6.049      29.326
18.922    4510.465      3.313      84.166      1.903      0.88     388320.     0.2857
       93.66      0.4475      0.7541      0.0381      0.0226            5.675      27.515
17.136    4232.006      3.109      76.221      1.837      0.89     388999.     0.2624
       98.34      0.4699      0.7576      0.0340      0.0211            5.300      25.698
15.312    3952.469      2.903      68.107      1.757      0.89     389704.     0.2373
      103.03      0.4923      0.7540      0.0299      0.0195            4.903      23.770
13.455    3655.997      2.686      59.849      1.669      0.89     390436.     0.2113
      107.71      0.5147      0.7412      0.0257      0.0179            4.483      21.737
11.570    3343.285      2.456      51.465      1.570      0.89     391194.     0.1843
      112.39      0.5370      0.7157      0.0215      0.0161            4.046      19.615
 9.661    3016.858      2.216      42.974      1.453      0.89     391978.     0.1558
      117.08      0.5594      0.6720      0.0172      0.0143            3.593      17.418
 7.733    2678.978      1.968      34.398      1.309      0.89     392788.     0.1257
      121.76      0.5818      0.6012      0.0129      0.0125            3.128      15.166
 5.793    2332.563      1.713      25.765      1.126      0.89     393625.     0.0936
      126.44      0.6042      0.4881      0.0085      0.0106            2.656      12.879
 3.846    1980.901      1.455      17.107      0.881      0.89     394488.     0.0596
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     131.12     0.6266     0.3047     0.0042     0.0087          2.182     10.581
 1.902    1627.352       1.195       8.460       0.530       0.89      395375.     0.0252
     135.81     0.6489    -0.0097    -0.0001     0.0068          1.701      8.246
-0.046    1268.307       0.932      -0.204      -0.016       0.90      396238.     0.0000
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