実験結果　整理表　～力計測～

実験日　2015-

実験環境の設定

送風機回転数	[rpm]	1400
ピトー管差圧	[Pa]	858.0
試験時の平均温度	[℃]	33.665853659

試験時の平均Re数

164224.0543

較正係数

F_X	[N/V]	10
F_Y	[N/V]	10
M_Z	[Nm/V]	1

測定範囲(定格負荷の何%か)

F_X	[%]	0.004～1.47
F_Y	[%]	0.086～9.610
M_Z	[%]	0.0025～1.92

実験結果

迎角	風洞内温度	風洞静圧	天秤出力（無風時）			天秤出力（通風時	
α [deg]	t [℃]	P [hPa]	F_X [V]	F_Y [V]	M_Z [V]	F_X [V]	F_Y [V]
-20	33.3	1003.55	-0.53935851	-0.99798082	0.245672082	-0.48694152	-1.8073639
-19	33.4	1003.52	-0.51461179	-1.00344935	0.247628397	-0.47026681	-1.8122711
-18	33.5	1003.52	-0.49332887	-1.00882732	0.248188067	-0.455423	-1.81902777
-17	33.6	1003.55	-0.4719788	-1.01896535	0.249249427	-0.44093018	-1.81882024
-16	33.7	1003.54	-0.45217286	-1.02133081	0.248652032	-0.42694395	-1.82439267
-15	33.8	1003.55	-0.42864681	-1.02884701	0.25119835	-0.41625976	-1.8322327
-14	33.8	1003.57	-0.4075103	-1.03696697	0.25024742	-0.40788879	-1.85849
-13	33.9	1003.57	-0.39071046	-1.03905112	0.248831909	-0.41649474	-1.90858156
-12	34.0	1003.59	-0.36630552	-1.04410192	0.251088501	-0.51324765	-2.00510865
-11	34.0	1003.58	-0.34270933	-1.0485198	0.251123642	-0.47742312	-1.96326297
-10	34.1	1003.58	-0.3243988	-1.0520172	0.250588208	-0.43553767	-1.9092987
-9	34.2	1003.57	-0.30235291	-1.05457381	0.251145562	-0.39593809	-1.85375061
-8	34.2	1003.57	-0.27944947	-1.05915138	0.252036666	-0.3604004	-1.79072568
-7	34.3	1003.60	-0.25942386	-1.06107507	0.251065289	-0.32130426	-1.7250275
-6	0.4	1003.60	-0.22526546	-1.06478622	0.251589698	-0.28288576	-1.65030212
-5	34.5	1003.60	-0.21530155	-1.06494907	0.252042769	-0.24803771	-1.58088984
-4	34.6	1003.61	-0.1939758	-1.06887706	0.251741039	-0.2150452	-1.5086334
-3	34.6	1003.60	-0.17249446	-1.07005378	0.253007932	-0.17933961	-1.40848695
-2	34.7	1003.61	-0.14961552	-1.0698738	0.251798192	-0.14780573	-1.29679564
-1	34.8	1003.61	-0.12647096	-1.07053657	0.251886164	-0.12018736	-1.18657835
0	34.9	1003.63	-0.10690919	-1.07090851	0.251067685	-0.09282529	-1.07947392
1	33.8	1003.66	-0.0861847	-1.07033819	0.251235098	-0.06612549	-0.95911866
2	34.0	1003.67	-0.06594538	-1.07034327	0.250707057	-0.04711613	-0.85138242
3	34.1	1003.68	-0.04227594	-1.06888895	0.250593481	-0.03176577	-0.73956297
4	34.3	1003.70	-0.02071532	-1.06762049	0.250673265	-0.01565244	-0.6401184
5	34.4	1003.68	0.01788027	-1.06519288	0.254365801	-0.00094604	-0.55352784
6	34.5	1003.66	0.02486262	-1.06662148	0.254082895	0.01566165	-0.47508239
7	34.6	1003.66	0.04946595	-1.0608915	0.255458585	0.0225311	-0.40312193
8	34.7	1003.60	0.06672364	-1.05891829	0.252316667	0.02513123	-0.33307492
9	34.8	1003.62	0.08992619	-1.05519822	0.252250138	0.03217773	-0.26572877
10	34.9	1003.61	0.11119688	-1.05205276	0.252486022	0.03901678	-0.20337223
11	35.0	1003.60	0.13262025	-1.04963209	2.52E-01	0.04570009	-0.1417542
12	35.1	1003.61	0.15365914	-1.04521632	0.252920647	0.0557495	-0.09122314
13	35.2	1003.60	0.1756409	-1.04057143	0.252802336	0.19821166	-0.20963741
14	35.2	1003.60	0.19810178	-1.03580586	0.251757441	0.23872681	-0.23036811
15	35.4	1003.58	0.21749277	-1.03038125	0.251591917	0.26774906	-0.22839359
16	35.4	1003.60	0.23849489	-1.0246872	0.252381278	0.29912412	-0.22641294

17	35.5	1003.60	0.25896306	-1.01901068	0.250564283	0.32502749	-0.22105407
18	35.6	1003.58	0.27946162	-1.01386189	0.251006411	0.35502009	-0.21071168
19	35.7	1003.59	0.30245058	-1.00566996	0.2517048	0.37739256	-0.20954585
20	35.8	1003.59	0.3230652	-0.99990045	0.251948626	0.40680543	-0.19344173

06-10

静圧平均	Pa	1003.60024
空気密度	ρ	1.13960848
粘性係数	μ	1.88494094
風速	V	38.8043851

実験結果

寺)	迎角	天秤出力（正味）			揚力	抗力	ピッチングモーメント
M_Z [V]	α [deg]	F_X [N]	F_Y [N]	M_Z [Nm]	L [N]	D [N]	$M_{C/4}$ [Nm]
0.33863522	-20	0.5241699	-8.0938309	0.09296314	-7.42643646	3.260811774	0.048678902
0.33876954	-19	0.4434498	-8.0882175	0.09114114	-7.50318678	3.052556074	0.050402664
0.34023744	-18	0.3790587	-8.1020045	0.09204937	-7.5883286	2.864163329	0.049735706
0.33940732	-17	0.3104862	-7.9985489	0.09015789	-7.55827299	2.635468813	0.049816713
0.34119564	-16	0.2522891	-8.0306186	0.09254361	-7.64998576	2.456054327	0.047992218
0.34339301	-15	0.1238705	-8.0338569	0.09219466	-7.72804984	2.198964892	0.048397836
0.35015562	-14	-0.0037849	-8.2152303	0.0999082	-7.97211847	1.983771607	0.04385833
0.37127987	-13	-0.2578428	-8.6953045	0.12244796	-8.53044637	1.704783598	0.029719867
0.44267885	-12	-1.4694213	-9.6100674	0.19159035	-9.70557419	0.560734433	-0.02341417
0.43209837	-11	-1.3471379	-9.1474317	0.18097473	-9.23641362	0.423025065	-0.02089467
0.41867064	-10	-1.1113887	-8.572815	0.16808243	-8.63556532	0.394149497	-0.01805817
0.40299075	-9	-0.9358518	-7.991768	0.15184519	-8.03977556	0.325858042	-0.01198925
0.386911	-8	-0.8095093	-7.3157431	0.13487433	-7.35720866	0.216523435	-0.00684883
0.37128911	-7	-0.618804	-6.6395243	0.12022382	-6.66544754	0.194962939	-0.00403215
0.35355837	-6	-0.576203	-5.8551591	0.10196867	-5.88331349	0.038984278	0.000496611
0.33958132	-5	-0.3273616	-5.1594077	0.08753855	-5.16830608	0.123556123	0.002751084
0.32197268	-4	-0.210694	-4.3975634	0.07023164	-4.40154845	0.096577757	0.006725719
0.30511172	-3	-0.0684515	-3.3843318	0.05210379	-3.38327612	0.108764549	0.007122018
0.2887451	-2	0.0180979	-2.2692185	0.03694691	-2.2672045	0.097281457	0.002764415
0.2739532	-1	0.062836	-1.1604178	0.02206704	-1.15914442	0.083078513	-0.00175972
0.25363769	0	0.140839	-0.0856541	0.00257	-0.08565408	0.140839	-0.00107106
0.24696352	1	0.2005921	1.11219527	-0.0042716	1.108525062	0.219972033	-0.01519184
0.2317657	2	0.1882925	2.18960854	-0.0189414	2.181703376	0.264594033	-0.01937679
0.21422117	3	0.1051017	3.29325979	-0.0363723	3.283245894	0.277313562	-0.02125974
0.19686276	4	0.0506288	4.27502093	-0.0538105	4.261075507	0.348715856	-0.02100236
0.18089599	5	-0.1882631	5.11665037	-0.0734698	5.113588181	0.258398761	-0.01607157
0.16666877	6	-0.0920097	5.91539094	-0.0874141	5.892603442	0.526821063	-0.01610522
0.15147402	7	-0.2693485	6.57769571	-0.1039846	6.561491888	0.53427864	-0.01112511
0.1325073	8	-0.4159241	7.25843374	-0.1198094	7.245680609	0.598302376	-0.00721322
0.11731872	9	-0.5774846	7.89469448	-0.1349314	7.887836185	0.664627501	-0.00322574
0.1031769	10	-0.721801	8.48680531	-0.1493091	8.483211096	0.762883055	0.000790029
0.08810126	11	-0.8692016	9.07877888	-0.1634873	9.077827625	0.879080759	0.004608659
0.07720949	12	-0.9790964	9.53993179	-0.1757112	9.53502698	1.025762554	0.008762351
0.16121833	13	0.2257076	8.30934021	-0.091584	8.045599196	2.08911757	-0.05382945
0.17364196	14	0.4062503	8.05437752	-0.0781155	7.716847243	2.342713207	-0.06283613
0.174588	15	0.5025629	8.01987662	-0.0770039	7.616533101	2.561135293	-0.06334392
0.1779724	16	0.6062923	7.98274261	-0.0744089	7.506387893	2.78314763	-0.06528912

0.17832336	17	0.6606443	7.97956609	-0.0722409	7.437743302	2.964776627	-0.06740148
0.18022766	18	0.7555847	8.03150214	-0.0707788	7.404923933	3.200474404	-0.06977254
0.18012086	19	0.7494198	7.96124114	-0.0715839	7.283514161	3.300516927	-0.06773778
0.18121036	20	0.8374023	8.06458718	-0.0707383	7.291824608	3.545152025	-0.07039201

揚力係数	抗力係数	モーメント係数	中立点
C_L	C_D	$C_{M\ c/4}$	N_0
-0.58883332	0.25854589	0.003859692	
-0.59491876	0.242033543	0.003996367	0.006527828
-0.60166956	0.227096106	0.003943485	-0.01063697
-0.59928648	0.20896319	0.003949908	-0.02827714
-0.60655828	0.194737628	0.003805246	-0.00835731
-0.61274789	0.174353313	0.003837407	-0.01283287
-0.6320998	0.157290893	0.003477475	-0.02327773
-0.67636895	0.135170265	0.002356453	-0.03880832
-0.76954344	0.044459967	-0.00185648	-0.07169531
-0.73234426	0.033541155	-0.00165671	-0.00500557
-0.68470371	0.031251645	-0.00143181	-0.00744204
-0.63746425	0.025836897	-0.00095061	-0.00876855
-0.58334433	0.017167886	-0.00054304	-0.00578981
-0.52849541	0.01545838	-0.0003197	-0.00498369
-0.46648093	0.003091017	3.9376E-005	-0.00453079
-0.40978885	0.009796618	0.00021813	-0.00420384
-0.34899354	0.007657536	0.000533274	-0.00244866
-0.26825594	0.008623812	0.000564696	0.001855982
-0.17976395	0.007713331	0.000219187	0.003993353
-0.09190718	0.006587197	-0.00013953	0.001758141
-0.00679141	0.011166957	-8.492E-005	0.005923312
0.087893635	0.017441321	-0.00120454	0.008073599
0.172984668	0.020979346	-0.00153636	0.002790195
0.260324665	0.021987863	-0.00168566	0.000781759
0.337855612	0.027649266	-0.00166525	-0.00283453
0.405450329	0.020488131	-0.0012743	-0.00300157
0.467217523	0.041771016	-0.00127696	-0.00341629
0.520252893	0.042362318	-0.0008821	-0.00657168
0.574501403	0.047438684	-0.00057193	-0.00595575
0.625417156	0.052697525	-0.00025576	-0.00646712
0.672623725	0.060488091	6.2640E-005	-0.00658357
0.719770163	0.069701269	0.000365415	-0.00757958
0.756020956	0.081331494	0.000694756	-0.05661354
0.637925997	0.165643649	-0.00426807	-0.03937921
0.611859646	0.185750946	-0.0049822	-0.02217485
0.603905857	0.203069373	-0.00502246	-0.01165542
0.595172574	0.220672468	-0.0051767	-0.02269458

0.589729826	0.235073615	-0.00534418	-0.0441873
0.587127617	0.253761812	-0.00553218	-0.0021805
0.577501181	0.261694064	-0.00537085	-0.00547725
0.578160106	0.28109089	-0.0055813	

実験結果　整理表　～圧力測定～

実験日

実験概要の設定

20deg/min	[℃/m]	7.1250
空気比	[%]	305.6
空気温度	[℃]	31.8667140

試験時の平均気圧

760[kPa]	101.3[kPa]

測定範囲（試験点カバー率）

6,000	～	27.2
	[℃]	

静圧平均 Ps		1999.88188
空塔速度 u		7.11128451
相対湿度 φ		1.975
高度　Y		255.48709302

実験結果

試験	実測空気温度	実測空気比	第1層側面の圧力 [P a] [V]										第2層側面の圧力 [P a] [V]									
m [cm]	t [℃]	P [kPa]	点1a1	点1a2	点1a3	点1a4	点1a5	点1a6	点1a7	点1a8	点1a9	点1a10	点2a1	点2a2	点2a3	点2a4	点2a5	点2a6	点2a7	点2a8	点2a9	点2a10
-36	31.9	1999.05	-0.38760625	-0.66233203	-0.47777345	-0.38189843	-0.12423281	-0.45313721	-0.4873281	-0.19859167	-0.27864219	-0.39125781	-0.52656094	-0.69125	-0.49937	-0.42422	-0.16406	-0.46875	-0.47266	-0.42656	-0.40234	-0.16016
-34	31.9	1999.03	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67891	-0.47422	-0.42031	-0.16328	-0.4581	-0.46172	-0.42031	-0.40703	-0.16016
-32	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53047656	-0.67031	-0.46641	-0.41563	-0.16172	-0.45469	-0.46172	-0.41563	-0.40391	-0.16016
-30	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53047656	-0.67031	-0.46641	-0.41563	-0.16172	-0.45469	-0.46172	-0.41563	-0.40391	-0.16016
-28	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-26	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-24	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-22	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-20	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-18	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-16	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-14	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-12	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-10	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-8	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-6	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-4	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
-2	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
0	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
2	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
4	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
6	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
8	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
10	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
12	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
14	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
16	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
18	32.0	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
20	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
22	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
24	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
26	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
28	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
30	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
32	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
34	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016
36	31.9	1999.01	-0.39687969	-0.67499531	-0.5166875	-0.3984375	-0.1140469	-0.47773124	-0.4923828125	-0.1910859	-0.2869141	-0.3984375	-0.53242969	-0.67344	-0.46797	-0.41563	-0.16172	-0.45625	-0.46172	-0.41563	-0.40391	-0.16016

試験	実測空気温度	実測空気比	第3層側面の圧力 [P a] [V]										第4層側面の圧力 [P a] [V]									
m [cm]	t [℃]	P [kPa]	点3a1	点3a2	点3a3	点3a4	点3a5	点3a6	点3a7	点3a8	点3a9	点3a10	点4a1	点4a2	点4a3	点4a4	点4a5	点4a6	点4a7	点4a8	点4a9	点4a10
-36	31.9	1999.05	-0.69531250	-0.95156	-0.69922	-0.56250	-0.17969	-0.66406	-0.68750	-0.28125	-0.39844	-0.56250	-0.75781250	-0.9961	-0.7305	-0.5859	-0.1875	-0.6914	-0.7148	-0.5859	-0.5977	-0.2344
-34	31.9	1999.03	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-32	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-30	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-28	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-26	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-24	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-22	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-20	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-18	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-16	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-14	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-12	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-10	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-8	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-6	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-4	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
-2	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
0	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
2	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
4	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
6	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
8	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
10	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
12	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
14	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
16	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
18	32.0	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
20	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
22	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
24	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
26	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
28	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
30	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
32	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
34	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266
36	31.9	1999.01	-0.70312500	-0.96094	-0.70508	-0.56836	-0.18164	-0.67188	-0.69531	-0.28516	-0.40234	-0.56836	-0.76562500	-0.9883	-0.6973	-0.5625	-0.1797	-0.6602	-0.6836	-0.5625	-0.5742	-0.2266

試験	実測空気温度	実測空気比	第5層側面の圧力 [P a] [V]										第6層側面の圧力 [P a] [V]									
m [cm]	t [℃]	P [kPa]	点5a1	点5a2	点5a3	点5a4	点5a5	点5a6	点5a7	点5a8	点5a9	点5a10	点6a1	点6a2	点6a3	点6a4	点6a5	点6a6	点6a7	点6a8	点6a9	点6a10
-36	31.9	1999.05	-0.89062500	-1.21875	-0.89453	-0.71875	-0.22656	-0.85156	-0.88281	-0.35938	-0.50781	-0.71875	-0.89062500	-1.2305	-0.8945	-0.7148	-0.2695	-0.8594	-0.8867	-0.7148	-0.7305	-0.2969
-34	31.9	1999.03	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-32	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-30	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-28	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-26	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-24	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-22	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-20	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-18	31.9	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-16	32.0	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-14	32.0	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-12	32.0	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-10	32.0	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-8	32.0	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.2383	-0.9023	-0.7227	-0.2734	-0.8672	-0.8945	-0.7227	-0.7383	-0.3008
-6	32.0	1999.01	-0.89843750	-1.22656	-0.90039	-0.72656	-0.22852	-0.85938	-0.89062	-0.36328	-0.51172	-0.72656	-0.89843750	-1.

TAチェッ

九州工業大学
工学部　機械知能工学科

平成２7年度　機械工学実験 II

三次元翼空力実験・報告書

実験日：（力試験）　平成　　年　　月　　日
（圧力試験）平成　　年　　月　　日
提出日：平成　　年　　月　　日

グループ番号：

報告書作成者
学籍番号：
氏　名　：

-目次-

1. 目的
2. 実験装置と実験方法
3. 実験結果
4. 考察
5. まとめ
6. 参考文献
7. 風洞実験に対する感想・要望

ノク欄

ヨ

検印

実験環境の設定

送風機回転数	[rpm]	1350
ピトー管差圧	[Pa]	858.0
試験時の平均温度	[℃]	31.8857143

試験時の平均Re数

実験結果

迎角	風洞内温度	風洞静圧			
α [deg]	t [℃]	P [hPa]	圧力孔1	圧力孔2	圧力孔3
-20	31.6	1008.05	0.00706475	0.68333429	0.41777345
-18	31.9	1008.03	0.00687864	0.61859434	0.3506653
-16	32.1	1008.03	0.00674134	0.55474849	0.28746031
-14	32.2	1008.02	0.00658571	0.49957582	0.23680117
-12	32.4	1008.01	0.00653389	0.68254391	0.38778992
-10	32.6	1008.02	0.00631714	0.57780459	0.28522649
-8	32.7	1008.01	0.00577083	0.43405151	0.15975341
-6	32.9	1008.01	0.00600592	0.26147156	0.02017207
-4	33.0	1008.00	0.0055542	0.06056213	-0.13572998
-2	33.3	1008.01	0.00503543	-0.18831488	-0.31828619
0	33.4	1007.99	0.00429689	-0.50289922	-0.541864
2	31.0	1007.93	0.0014435	-0.81726684	-0.75354001
4	31.0	1007.96	0.00073247	-1.16149902	-0.97901916
6	31.1	1007.97	-0.00083314	-1.49368898	-1.19239806
8	31.1	1007.98	-0.00158997	-1.85636596	-1.4404938
10	31.2	1007.98	-0.00298772	-2.56560055	-1.4817444
12	31.2	1008.00	-0.00342716	-2.98770752	-1.58061829
14	31.2	1007.99	0.00048828	-0.69167174	-0.69510197
16	31.2	1008.02	0.00014348	-0.63526	-0.63055419
18	31.2	1008.01	0.00113831	-0.64010011	-0.63039555
20	31.3	1008.02	0.00062864	-0.64943238	-0.63814087

実験結果　整理表　～圧力測定

測定範囲(定格出力の何%か)

P_i-P_S	[%]	-37.2～9.4

翼上面側の出力電圧 (P_i-P_S) [V]

圧力孔4	圧力孔5	圧力孔6	圧力孔7	圧力孔8	圧力孔9	圧力孔10
0.20350953	0.12472535	-0.05316771	-0.09737853	-0.18098147	-0.27864073	-0.2935608
0.1434845	0.07772214	-0.09228826	-0.1263855	-0.20056455	-0.28583985	-0.28648989
0.08799745	0.03594971	-0.12515567	-0.14970396	-0.21488036	-0.28659968	-0.27445063
0.04679561	0.0087982	-0.14205928	-0.15623477	-0.21069032	-0.26708373	-0.23735045
0.17454533	0.12182614	-0.02460939	-0.02949833	-0.06732785	-0.08146058	0.03279725
0.08786316	0.0567108	-0.07589114	-0.06640625	-0.09081116	-0.08328861	0.06217345
-0.01381831	-0.01860353	-0.13501284	-0.10960389	-0.11882628	-0.08965758	0.08211054
-0.12285158	-0.09630738	-0.19433589	-0.15179446	-0.14577634	-0.09487609	0.09191591
-0.24310303	-0.18255309	-0.26162721	-0.20115669	-0.17897645	-0.10797427	0.07154845
-0.38170777	-0.28291015	-0.34281614	-0.26641844	-0.23173522	-0.15602419	0.01269228
-0.54937747	-0.40580137	-0.44392396	-0.35009461	-0.30577995	-0.2313904	-0.02879945
-0.70377812	-0.51317447	-0.53555294	-0.42944329	-0.38428646	-0.25799258	0.0300995
-0.86462093	-0.63022767	-0.64122623	-0.53005068	-0.39667974	-0.26482234	-0.024234
-1.02481386	-0.76416628	-0.64510495	-0.49617008	-0.42012939	-0.28476261	-0.01643367
-1.10101927	-0.75553894	-0.71568297	-0.54846802	-0.44777532	-0.28823551	-0.00191042
-1.19803472	-0.82868352	-0.75816958	-0.56977537	-0.45333864	-0.27867431	0.00458682
-1.22214354	-0.84965512	-0.76223145	-0.56204833	-0.43825077	-0.2691925	-0.0215332
-0.72758492	-0.6318665	-0.75383908	-0.72609862	-0.73558964	-0.69982906	-0.49142146
-0.65995485	-0.56091308	-0.67384646	-0.64683224	-0.66895139	-0.66958006	-0.50993645
-0.65936891	-0.56070862	-0.67355035	-0.64609681	-0.66711724	-0.66761166	-0.51678469
-0.66862183	-0.57329096	-0.68728028	-0.66086426	-0.6810638	-0.68057253	-0.53148499

E～

実験日

翼下面側の出力電圧（ P_i-P_S ） [V]

圧力孔11	圧力孔12	圧力孔13	圧力孔14	圧力孔15	圧力孔16	圧力孔17
-0.65368649	-0.6813843	-0.68557433	-0.63322145	-0.65000916	-0.66517335	-0.61360774
-0.65268252	-0.67097474	-0.67622374	-0.62221984	-0.6362427	-0.65009769	-0.59726259
-0.66947634	-0.67573242	-0.68246769	-0.62846675	-0.64139095	-0.65609439	-0.60596317
-0.73759462	-0.72669985	-0.73011169	-0.67651365	-0.68998416	-0.70944525	-0.65863341
-3.71938783	-3.54561765	-1.93070068	-1.4090179	-1.10887759	-0.85724794	-0.6009613
-3.47015382	-2.63666074	-2.09943844	-1.30014955	-1.06074524	-0.84086917	-0.60362548
-2.66653743	-2.17777705	-1.75655514	-1.19786072	-0.94540404	-0.78180845	-0.57268984
-1.87466737	-1.79105222	-1.39811093	-1.08443907	-0.94908148	-0.69659729	-0.50932922
-1.15765685	-1.38848266	-1.15459903	-0.91459659	-0.79621586	-0.69052128	-0.54561159
-0.47094423	-0.95227964	-0.88107905	-0.73071288	-0.65720217	-0.57364196	-0.43591619
0.13182067	-0.51873469	-0.60092471	-0.53786317	-0.51188358	-0.46083365	-0.34220583
0.53623655	-0.16640626	-0.36030275	-0.36598507	-0.38139029	-0.35926816	-0.26174616
0.8013	0.13922118	-0.13799133	-0.20173646	-0.25412595	-0.25994258	-0.1825287
0.91906734	0.36966554	0.04016718	-0.06940917	-0.15322573	-0.18407286	-0.12902217
0.9355804	0.5513397	0.19442441	0.04994202	-0.06066591	-0.11459048	-0.0787689
0.91987616	0.68828733	0.32598572	0.15717773	0.02378238	-0.05026857	-0.03219907
0.85264889	0.78455508	0.43699956	0.25440671	0.10192567	0.00964969	0.01102293
0.93732303	0.61219174	0.28326415	0.13014221	-0.00656437	-0.095636	-0.09730223
0.94080807	0.66087951	0.33477477	0.17435304	0.0270996	-0.07392578	-0.08705443
0.9370056	0.71777343	0.39895326	0.23216551	0.07439879	-0.03675236	-0.06060491
0.92734988	0.77055965	0.46199029	0.2911194	0.12439267	0.00279233	-0.03106382

圧力孔18	圧力孔19	圧力孔20
-0.69745179	-0.64285887	-0.66892091
-0.68130794	-0.62861939	-0.65430297
-0.69195558	-0.64042963	-0.66138915
-0.74047849	-0.67122192	-0.65844421
-0.51606443	-0.27386169	-0.16849673
-0.52937318	-0.29054871	-0.16082158
-0.51522828	-0.29580076	-0.17256158
-0.4774872	-0.28493344	-0.18055418
-0.45844113	-0.26267397	-0.18642276
-0.44363098	-0.2856598	-0.14531548
-0.35173332	-0.21951898	-0.19173281
-0.28146669	-0.15404661	-0.1292633
-0.21509394	-0.09810486	-0.06492004
-0.17646175	-0.08048101	-0.04716183
-0.14151614	-0.06718135	-0.05357057
-0.10894774	-0.05524601	-0.06600341
-0.07958675	-0.04723204	-0.08563541
-0.20060727	-0.19881592	-0.29981993
-0.20104068	-0.21588748	-0.33520509
-0.1841339	-0.21140139	-0.34444886
-0.16234133	-0.20226439	-0.34794312

実験結果　整理表　～圧力測定～

実験日　###

実験環境の設定

送風機回転数	[rpm]	1350
ピトー管差圧	[Pa]	858.0
試験部の平均温度	[℃]	31.8857143

試験時の平均Re数: 165810.97953157

測定範囲(定格出力の何%か)

P_t-P_s	[%]	0.001～37.2

静圧平均	Pa	1008.00190
空気密度	ρ	1.15128639
粘性係数	μ	1.876
風速	V	38.6070801

実験結果

迎角	風洞内温度	風洞静圧	翼上面側の出力電圧（ P_t-P_s ） [V]										翼下面側の出力電圧（ P_t-P_s ） [V]									
α [deg]	t [℃]	P [hPa]	圧力孔1	圧力孔2		圧力孔4	圧力孔5	圧力孔6	圧力孔7	圧力孔8	圧力孔9	圧力孔10	圧力孔11	圧力孔12	圧力孔13	圧力孔14	圧力孔15	圧力孔16	圧力孔17	圧力孔18	圧力孔19	圧力孔20
-20	31.6	1008.05	0.00706475	0.68333429	0.41777345	0.20350953	0.12472535	-0.05316771	-0.09737853	-0.18098147	-0.27864073	-0.2935608	-0.65368649	-0.6813843	-0.68557433	-0.63322145	-0.65000916	-0.66517335	-0.61368774	-0.69745179	-0.64285887	-0.66892091
-18	31.9	1008.03	0.00687864	0.61859434	0.3506653	0.1434845	0.07772214	-0.09228826	-0.1263855	-0.20056455	-0.28583985	-0.2864898	-0.65268252	-0.67097474	-0.67622374	-0.62221864	-0.63624427	-0.65009769	-0.59726259	-0.68130794	-0.62861939	-0.65430297
-16	32.1	1008.03	0.00674134	0.55474849	0.28746831	0.08799745	0.03594971	-0.12515567	-0.14978396	-0.21488036	-0.28659968	-0.27445063	-0.66947634	-0.67573242	-0.68246769	-0.62846675	-0.64139895	-0.65689439	-0.68596317	-0.69195558	-0.64042963	-0.66138915
-14	32.2	1008.02	0.00658571	0.49957582	0.23680117	0.04679561	0.0087982	-0.14285928	-0.15623477	-0.21969032	-0.26708373	-0.2373504	-0.73759462	-0.72669985	-0.73011169	-0.67651365	-0.68998416	-0.70944525	-0.65863341	-0.74047849	-0.67122192	-0.65844421
-12	32.4	1008.01	0.00653389	0.68254391	0.38778992	0.17454533	0.12182614	-0.02460939	-0.02949833	-0.06732785	-0.08146058	0.03279725	-3.71938783	-3.54561765	-1.93070868	-1.4090179	-1.10887759	-0.85724794	-0.6089613	-0.51606443	-0.27386169	-0.16849673
-10	32.6	1008.02	0.00631714	0.57780459	0.28522649	0.08786316	0.0567108	-0.07589114	-0.06640625	-0.09881116	-0.08328861	0.06217345	-3.47015382	-2.63666874	-2.89943844	-1.30014955	-1.06874524	-0.84086917	-0.68362548	-0.52937318	-0.29854871	-0.16882158
-8	32.7	1008.01	0.00577883	0.43405151	0.15975341	-0.01381831	-0.01868353	-0.13501284	-0.10960389	-0.11882628	-0.08965758	0.08211854	-2.66653743	-2.17777785	-1.75655514	-1.19786072	-0.94540404	-0.78188845	-0.57268984	-0.51522828	-0.29580076	-0.17256158
-6	32.9	1008.01	0.00600592	0.26147156	0.02017207	-0.12285158	-0.09630738	-0.19433589	-0.15179446	-0.14577634	-0.09487689	0.09191591	-1.87466737	-1.79105222	-1.39811093	-1.08443907	-0.94008148	-0.69659729	-0.50932922	-0.4774872	-0.28493344	-0.18055418
-4	33.0	1008.00	0.0055542	0.06056213	-0.13572998	-0.24318383	-0.18255389	-0.26162721	-0.20115669	-0.17897645	-0.10797427	0.07154845	-1.15765685	-1.38848266	-1.15459083	-0.91459659	-0.79621586	-0.60852128	-0.54561159	-0.45844113	-0.28267397	-0.18642276
-2	33.3	1008.01	0.00583543	-0.10831488	-0.31828619	-0.36178777	-0.28201815	-0.34281614	-0.26641044	-0.23173522	-0.15682419	0.01269228	-0.47894423	-0.95227964	-0.80107985	-0.73071288	-0.65728217	-0.5736196	-0.43591619	-0.44363806	-0.2856598	-0.14531546
0	33.4	1007.99	0.00429689	-0.50289922	-0.541864	-0.54937747	-0.40588137	-0.44392396	-0.35009461	-0.30577995	-0.2313904	-0.02879945	0.13182067	-0.51673469	-0.60092471	-0.53786317	-0.51188358	-0.46883365	-0.34220583	-0.35173332	-0.21951898	-0.19173281
2	31.0	1007.93	0.0014435	-0.81726684	-0.75354001	-0.78377812	-0.51317447	-0.53555294	-0.42944329	-0.38428646	-0.25799258	0.0300995	0.53623655	-0.16640626	-0.36030275	-0.36598507	-0.38139029	-0.35926816	-0.26174616	-0.28146669	-0.1540466	-0.1292633
4	31.0	1007.96	0.00073247	-1.16149902	-0.97981916	-0.86462093	-0.63822767	-0.64122623	-0.53005068	-0.39667974	-0.26482234	-0.024234	0.8013	0.13922118	-0.13799133	-0.20173646	-0.25412595	-0.25994258	-0.1825287	-0.21509394	-0.09810486	-0.06492004
6	31.1	1007.97	-0.00083314	-1.49368898	-1.19239886	-1.02481386	-0.76416628	-0.64510495	-0.49617008	-0.42012939	-0.28476261	-0.01643367	0.91906734	0.36966554	0.04016718	-0.06940917	-0.15322573	-0.1840786	-0.12902217	-0.17646175	-0.08048101	-0.04716183
8	31.1	1007.98	-0.00158997	-1.85636596	-1.4404938	-1.10101927	-0.75553894	-0.71568297	-0.54846802	-0.44777532	-0.28823551	-0.00191042	0.9355804	0.5513397	0.19442441	0.04994202	-0.05866591	-0.11459048	-0.0787689	-0.14151614	-0.06718135	-0.05357057
10	31.2	1007.98	-0.00298772	-2.56560055	-1.4817444	-1.19863472	-0.82868352	-0.75816958	-0.56977537	-0.45333864	-0.27667431	0.00458682	0.91967616	0.68828733	0.32598572	0.15717773	0.02378238	-0.05026857	-0.03219907	-0.10894774	-0.05524601	-0.06600341
12	31.2	1008.00	-0.00342716	-2.98770752	-1.58061829	-1.22214354	-0.84965512	-0.76223145	-0.56204833	-0.43825077	-0.2691925	-0.0215332	0.85264889	0.78455588	0.43699956	0.25440671	0.10192567	0.00964969	0.01102293	-0.07958675	-0.04723204	-0.03563541
14	31.2	1007.99	0.00048828	-0.69167174	-0.69510197	-0.72758492	-0.6318665	-0.75383908	-0.72680862	-0.73558964	-0.69982906	-0.40142146	0.93732383	0.61219174	0.28326415	0.13014221	-0.00656437	-0.095636	-0.09730223	-0.20060727	-0.10881592	-0.29981993
16	31.2	1008.02	0.00014348	-0.63526	-0.63055419	-0.65995485	-0.56891308	-0.67384646	-0.64683224	-0.66895139	-0.66958006	-0.50993645	0.94008087	0.66867951	0.33477477	0.17435304	0.0270996	-0.07392578	-0.08705443	-0.20104068	-0.21588746	-0.33520589
18	31.2	1008.01	0.00113831	-0.64010011	-0.63039555	-0.65936801	-0.56078062	-0.67355835	-0.64680681	-0.66711724	-0.66761166	-0.51678469	0.9370056	0.71777343	0.33805326	0.23216551	0.07439879	-0.03675236	-0.06060491	-0.1841339	-0.21140139	-0.34444886
20	31.3	1008.02	0.00002864	-0.64943238	-0.63814087	-0.66862183	-0.57329096	-0.68720828	-0.66806426	-0.6810638	-0.68057253	-0.53148499	0.92734988	0.77855965	0.46199829	0.2911194	0.12439267	0.00279233	-0.03106382	-0.16234133	-0.28226439	-0.34794312