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RESEARCH MEMORANDUM

FREE-FLIGHT TRANSONIC MODEL INVESTIGATION OF JET
EFFECTS ON A FIGHTER-TYPE CONFIGURATION
EMPLOYING A TAIL BOOM AND THREE

HORIZONTAL-TAIL POSITIONS

By Bruce G. Jackson

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Langley Field, Va.

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NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

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SUMMARY

Some results of a limited research program initiated to study the effects of a hot propulsive jet on the longitudinal stability characteristics of a fighter-type airplane configuration are presented. The data were obtained from a rocket-boosted free-flight model investigation over a Mach number range of 1.1 to 1.4 on four models whose only geometric difference was the position and size of the horizontal tail. The configurations had sweptback wings and tail surfaces and a tail boom of rectangular cross section. A solid-propellant rocket motor was used to simulate a turbojet engine with afterburner operative, and pulse rockets were used to disturb the models in flight.

Longitudinal trim, normal force, and static and dynamic stability data are presented in summary plots as functions of Mach number. The results of a limited pressure survey on the tail boom and horizontal stabilizer are summarized by giving a sample pressure distribution on the undersurface of the boom at one Mach number and a pictorial representation of the suggested intersection of the primary and secondary shocks on the boom and horizontal stabilizer over the Mach number range of the test. Relatively small jet effects were encountered on the configuration with the horizontal tail mounted on the body ahead of the jet exit. The maximum jet effects on longitudinal trim were noted on the configurations with the horizontal tail mounted on the boom nearest the jet exit. Jet effects on the normal-force-curve slope, the pitching-moment-curve slope, the aerodynamic-center location, and the longitudinal damping were not apparent on any of the configurations tested.

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INTRODUCTION

Many research and operational fighter airplanes have a tail boom extending above and back of a jet exit. Others with no boom have stabilizing surfaces in a position to be affected by an exhausting jet. Because of the insufficient free-flight information available on the jet-interference effects on fighter-type configurations having a tail boom, the National Advisory Committee for Aeronautics has initiated a series of tests to obtain data on power effects and tail position effects on the stability characteristics of a configuration with a tail boom of rectangular cross section.

References 1 and 2 give some information on jet effects obtained from free-flight model tests where these effects were incidental to the tests. References 3 to 6 give results of investigations using free-flight models that were primarily initiated to obtain information on jet interference. The jet effects on the longitudinal stability and trim of two of the models included in this paper were reported in reference 6. Reference 7 presents wind-tunnel results of an investigation conducted on a configuration with a tail boom extending back of and above an exhausting jet. References 8 to 10 present the results of some investigations on jet effects on a surface located within the shock region back of an exhausting jet as obtained in the preflight jet at the Langley Pilotless Aircraft Research Station at Wallops Island, Va., the Langley 9-inch supersonic tunnel, and the Lewis 18- by 18-inch tunnel, respectively.

The primary concern of this paper is to present all the data that are available on the longitudinal trim, normal force, drag, static and dynamic stability for this series of models and to present the results of a limited pressure survey on the boom and horizontal tails. The data herein were obtained from four models whose only geometric difference was the position and size of the horizontal tail.

The tests were conducted at the Langley Pilotless Aircraft Research Station at Wallops Island, Va., by the rocket-boosted free-flight model technique. A Mach number range of 1.1 to 1.4 and a Reynolds number range of 9×10^6 to 13×10^6 were covered.

SYMBOLS

Positive displacements, forces, moments, and pressures are shown in the body axes system (fig. 1) which is used throughout this paper.

A	area of jet exit, sq ft
a	accelerometer reading, g units
\bar{c}	mean aerodynamic chord, ft
C_D	drag coefficient, $-C_X \cos \alpha + C_N \sin \alpha$
C_L	lift coefficient, $C_N \cos \alpha + C_X \sin \alpha$
C_N	normal-force coefficient, $\frac{a_Z}{g} \frac{W}{q_\infty S}$
C_p	pressure coefficient, $144 \left(\frac{p - p_\infty}{q_\infty} \right)$
ΔC_p	pressure coefficient, $144 \frac{\Delta p}{q_\infty}$
C_X	axial-force coefficient, $\frac{a_X}{g} \frac{W}{q_\infty S}$
C_Y	side-force coefficient, $\frac{a_Y}{g} \frac{W}{q_\infty S}$
C_m	pitching-moment coefficient, $\frac{\ddot{\theta}}{q_\infty} \frac{I_Y}{S \bar{c}}$
g	gravitational acceleration, ft/sec ²
I	mass moment of inertia, slug-ft ²
M	Mach number
p	static pressure, lb/sq in.
Δp	differential pressure (difference between p_{upper} and p_{lower}), lb/sq in.
p_j	jet static pressure, lb/sq in.
$p_{j,t}$	jet total pressure, lb/sq in.
q	dynamic pressure, lb/sq ft
r	radius, ft

R	Reynolds number
S	total wing area, sq ft
t	time, sec
$T_{1/2}$	time to damp to 1/2 amplitude, sec
V	velocity, ft/sec ²
W	weight of model, lb
x_{ac}	aerodynamic-center location, distance back of leading edge of \bar{c} , ft
x	distance along X-axis
y	distance along Y-axis
z	distance along Z-axis
α	angle of attack, deg
γ	flight-path angle, deg
θ	angle of pitch, deg
$\ddot{\theta}$	pitching angular acceleration, radian/sec ²
$\frac{\theta}{L}$	wing influence coefficient, radian/lb
η	spanwise station in percent of semispan, $\frac{y}{b/2}$

Subscripts:

ac	aerodynamic center
b	model base
cg	center of gravity
o	sea-level conditions
t	trim

X with respect to X-axis
 Y with respect to Y-axis
 Z with respect to Z-axis
 1 to 21 orifice numbers
 ∞ free-stream conditions

Derivatives:

C_{N_α} normal-force-curve slope $\frac{dC_N}{d\alpha}$ per degree
 C_{mC_N} static stability parameter, $\frac{dC_m}{dC_N}$
 C_{m_α} static stability parameter $\frac{dC_m}{d\alpha}$ per degree
 $C_{m_q} + C_{m_\dot{\alpha}}$ longitudinal damping derivative,
 $57.3 \left[\frac{dC_m}{d\left(\frac{d\theta}{dt} \bar{c}/2V\right)} + \frac{dC_m}{d\left(\frac{d\alpha}{dt} \bar{c}/2V\right)} \right]$, per radian

A Δ preceding a symbol indicates the effect of power unless otherwise defined.

MODELS

Airframe

A three-view sketch of the configurations tested is shown in figure 2. Figure 3 presents the normal area distribution which was incorporated into the design. An enlarged drawing of the rear portion of the model showing the three different tail positions and the location of the pressure orifices is presented in figure 4. Photographs of the models are given in figure 5. Table I presents the physical characteristics of the models. Table II gives the ordinates of the pressure orifices.

The nose sections of the models were constructed of aluminum alloy. The body sections were made up of a steel rocket-motor housing for model I and a magnesium-alloy rocket-motor housing for models II, III,

and IV, each surrounded by laminated mahogany which was faired to the designed body contour. The primary structure of the tail boom of model I was wood whereas that of models II, III, and IV was metal. In all cases a steel plate made up the undersurface of the tail boom. The wings and tail surfaces were of solid aluminum-alloy construction.

The designation of the models as configurations is such that configuration (a) (models I and II) has the horizontal tail mounted on the tail boom nearest the jet exit, configuration (b) (model III) has the horizontal tail mounted on the tail boom in the most rearward position, and configuration (c) (model IV) has the horizontal tail mounted on the fuselage ahead of the jet exit.

Turbojet Simulator

A 5-inch solid-propellant cordite rocket motor, modified by the method of reference 11, was used as a turbojet simulator. This rocket motor approximately simulated present-day turbojet engines with afterburner operative at a Mach number of 1.2 at an altitude of 35,000 feet for a model test Mach number of 1.2 at 3,000 feet. From static ground firings of the simulator it was determined that with an exit diameter of 3.415 inches a sonic exit could be obtained and the desired simulation parameters could most nearly be approximated. A cutaway drawing of the model exposing the rocket-motor installation and its pertinent parts and dimensions is shown in figure 6. The center line of the simulator coincided with the model reference line and passed within ± 0.02 inch of the model center of gravity.

INSTRUMENTATION

Each model contained an NACA telemeter transmitter which relayed continuous signals from the instruments contained in each model to a ground receiving station. The transmitted information received from all four models was flow direction at the nose in the pitch plane, normal acceleration at the nose, normal acceleration near the center of gravity, transverse acceleration near the center of gravity, longitudinal acceleration near the center of gravity, reference static pressure, and free-stream total pressure. Pressure measurements were made on each model. The location of each orifice and the type measurement taken are given in table II for each model.

Ground instrumentation included telemeter receiving and recording equipment, SCR-584 radar theodolite, and a CW Doppler velocimeter. Atmospheric conditions were measured with a rawinsonde released shortly after each flight.

TESTS

Preflight Tests

Static-loading tests of the wings were made to determine the models flexibility characteristics and are presented in figure 7 as wing structural influence coefficients for 25- and 50-percent-chord loadings. Vibration tests were conducted on all models and an example of these tests is shown in reference 6. The data from models III and IV showed results similar to those obtained from the first two models. From a static ground firing of the simulator the characteristics of its operation were determined and are shown in figure 6.

Flight Tests

The flight tests were conducted at the Langley Pilotless Aircraft Research Station at Wallops Island, Va. Each model was boosted to flight-test velocity with a 6-inch ABL Deacon rocket motor. The Mach number at burnout was approximately 1.2. The model then separated from the booster because of the differences in the drag-weight ratios between the model and model-booster combination. After a short delay the simulator motor ignited and accelerated the model to its maximum Mach number. The Mach number range for which both power-off and power-on data are available is 1.1 to 1.4.

Each model was disturbed in pitch by four pulse rockets located in the nose section. Two of the pulse rockets were programed to fire during the power-on portion of the flight and two after simulator burnout (power off). Disturbances were also encountered with the advent and termination of the simulator operation and upon separation of the model from the booster because of an abrupt trim change resulting from the power changes. The interruption of some of the oscillations by other oscillations due to unfortunate spacing of the disturbances precluded the utilization of all oscillations in the analysis.

Test Conditions

The test conditions are summarized in figure 8. The terms R , q_∞ , $\frac{P_\infty}{P_0}$, and $\frac{P_{j,t}}{P_\infty}$ are presented as a function of Mach number for the four models. Pressure ratio $\frac{P_{j,t}}{P_\infty}$ is presented only during the power-on

portion of the flight and is based on $p_{j,t}$ obtained from the static ground firing of the simulator. The Reynolds number ranged from 9×10^6 to 13×10^6 .

CORRECTIONS AND ACCURACIES

Instrument misalignment and displacement corrections were applied to the basic recorded data where necessary. Flexibility corrections were not applied to the data herein presented. An example of the estimated probable errors in the basic data and the calculated effect on the aerodynamic parameters is presented in the following tables. These accuracies express the range encountered on all the models and may be either positive or negative.

Estimated possible errors in measured quantities for -

Quantity	M = 1.2	M = 1.4
W, percent	0.5	0.5
I_y , percent	2.0	2.0
M, percent	1.29	0.78
q_∞ , percent	1.41	1.70
a_z , g units	0.40	0.40
$\frac{da_z}{d\alpha}$, percent	2.0	2.0
$\frac{da_z}{da_z} \frac{d\alpha}{d\alpha}$, percent	2.0	2.0

Quantity	Condition	Mach number	Probable error
C_{N_t}	Power off	1.2	0.010
	Power off	1.4	.006
	Power on	1.4	.006
C_{N_α}	Power off and on	1.2	.0021
	Power off and on	1.4	.0014
$\frac{x_{ac}}{\bar{c}}$	Power off and on	1.2	.0151
	Power off and on	1.4	.0153

ANALYSIS

The body axes system shown in figure 1 was used for the analysis. The longitudinal stability analysis (conducted on the transient motions of the model resulting from the previously described disturbances) is based on the usual assumption of two degrees of freedom in pitch. A more detailed discussion of the methods used in reducing the data from flight time histories and the assumptions made in and the limitations of the test technique can be found in references 12 and 13.

RESULTS AND DISCUSSION

Time Histories

Time histories of the basic parameters for models III and IV are presented in figure 9. The time histories for models I and II are shown in reference 6. Some oscillations in sideslip are noted but the models trimmed with essentially zero side force. The drag coefficient during the power-on portion of the flight (shown as dashed line in fig. 9) is not valid because it contained a thrust component which resulted in longitudinal accelerations that exceeded the instrument range. It is presented because it gives a good indication of the time that the power changes occurred.

Trim

Trim angle of attack α_t and trim normal-force coefficient C_{N_t} are shown in figures 10(a) and 10(b) for models III and IV. Figure 10(c) gives a summary of the jet effects on α_t and C_{N_t} for all models. It should be noted that the largest jet effects were encountered on the configuration with the horizontal tail located forward on the boom. Relatively small jet effects on α_t and C_{N_t} were observed on model IV, although the boom is back of the issuing jet.

Normal Force

The basic normal-force data for models III and IV are presented in figure 11. The normal-force-curve slopes C_{N_α} were obtained from these data and are shown in figure 12(a) for models III and IV. The basic normal-force data from which C_{N_α} was obtained for models I and II was

obtained from reference 6. Power-off and power-on $C_{N\alpha}$ data are presented in figure 12(a) for all four models. Within the limits of accuracy of these tests, there are no apparent jet effects on $C_{N\alpha}$.

The normal-force coefficient at an angle of attack of 2° is presented in figure 12(b) as a function of Mach number for models III and IV. An angle of attack of 2° was chosen because it necessitated the least amount of extrapolation of the basic data to include all oscillations. The normal-force coefficient at an angle of attack of 2° for models I and II is given in reference 6. The jet effects are shown in figure 12(b) where $\Delta C_{N,\alpha=2^\circ}$ is plotted against Mach number for the three configurations tested. Relatively small effects due to the jet were noted on model IV and this result shows the small effect of the tail boom. The largest effects were noted on configuration (a) with the horizontal tail located on the boom nearest the jet exit.

Pitching Moment

Shown in figure 13 are the basic pitching-moment data for models III and IV. From these data the pitching-moment-curve slopes $C_{m\alpha}$ that are presented as a function of Mach number in figure 14(a) were obtained. No jet effects on $C_{m\alpha}$ were observed on any of the three configurations tested. Figure 14(a) also presents $C_{m\alpha}$ as a function of Mach number for all models.

The pitching-moment coefficient at an angle of attack of 2° is plotted in figure 14(b) as a function of Mach number for models III and IV. The effects of power are also presented in figure 14(b) where $\Delta C_{m,\alpha=2^\circ}$ is plotted against Mach number for all models. The configuration with the horizontal tail nearest the jet exit was affected the most because of the shock impingement whereas the configuration with the horizontal tail on the body ahead of the jet exit experienced very little effect. This result denoted the small contribution of the jet on the tail boom.

Aerodynamic-Center Location

The aerodynamic-center location $\frac{x_{ac}}{c}$ is shown in figure 15 for all models and indicates a value of approximately $0.6\bar{c}$ for these configurations over the Mach number range of the test. Because the differences in this parameter between the two models of configuration (a) are larger than the calculated probable error, no power effects and tail-position effects could be ascertained from these tests. The reason for the

increased inaccuracies is not known but they may indicate undetected structural differences between models or larger-than-normal calibration changes in the instruments.

Dynamic Stability

Figure 16 presents the longitudinal damping derivative $C_{m\dot{q}} + C_{m\dot{\alpha}}$ plotted against Mach number for configurations (a), (b), and (c) (models II, III, and IV). No damping could be obtained from the data of model I.

The damping factor $-\frac{0.693}{T_{1/2}}$ was obtained from the first portion of the transient oscillation. The general level of the parameter $C_{m\dot{q}} + C_{m\dot{\alpha}}$ for the three configurations appears to be about 6. It was not possible to determine any power effects or tail-position effects from these data.

Contributing factors to the scatter of the data could be longitudinal-lateral coupling, atmospheric turbulence, and possible undetected structural differences. Small oscillations in sideslip were noted but no effort was made to determine their effect on the longitudinal stability parameters. The atmospheric conditions existing during the testing of models I and II are summarized in reference 6. The lapse rate encountered at the time of the flight of model III is considered to indicate a marginally stable atmosphere by the standard of reference 14 and the lapse rate encountered at the time of the flight of model IV is considered to indicate a stable atmosphere. These data suggest the possibility that some of the data were taken while the models were flying in turbulent air.

Trim Drag

Presented in figure 17 are the trim drag plots for models III and IV. No power-on drag data were available, thus, no power effects on drag are shown.

Pressure Data

Shown in figure 18 are the pressure-coefficient time histories for all the models. Angle-of-attack and Mach number time histories are also presented for convenience. Table III presents time histories of all pressure coefficients, angle of attack, and Mach number. Figure 19 presents the trim pressure coefficients for all orifices over the Mach number range for which both power-off and power-on data were available. Plots of power-off and power-on pressure distributions on the under-surface of the boom at a Mach number of 1.2 are shown in figures 20(a)

and 20(b), respectively, with suggested fairings. The data were taken at trim angles of attack for power-off and power-on conditions and were not adjusted to the same angles of attack. Figure 20(c) gives the effect of power on the pressure distribution. The integrated effect over the boom indicates little effect due to power.

Reference 15 presents some jet-effects data on different configurations and also shows the structure of an exhausting jet in subsonic and supersonic flow. For the purposes of this paper, the shock which emanates at the jet exit and exists only when the power is on will be called the primary shock. The shock which exists in the trailing wake during power-off and power-on conditions will be called the secondary shock. Figure 21 gives a representation of the suggested regions of shock impingement on the tail boom and horizontal tails. There were no shock intersections noted on the horizontal tail of model IV and it was omitted from the figure.

CONCLUDING REMARKS

Free-flight tests of four similar models having swept wings and swept tail surfaces of varying position and size and a tail boom of rectangular cross section have been conducted to study the effects of a hot propulsive jet on the longitudinal trim, normal force, stability, and boom pressure distribution. A Mach number range and Reynolds number range of 1.1 to 1.4 and 9×10^6 to 13×10^6 , respectively, were covered.

Relatively small jet effects were encountered on the configuration with the horizontal tail mounted on the body ahead of the jet exit; thus, the jet effects on the boom for this type of configuration are believed to be small. Because of the strong shock field near the jet exit, the maximum jet effects on longitudinal trim were noted on the configuration with the horizontal tail mounted on the boom nearest the jet exit. Jet effects on normal-force-curve slope, pitching-moment-curve slope, aerodynamic-center location, and the longitudinal damping were not apparent on any of the configurations tested.

Langley Aeronautical Laboratory,
National Advisory Committee for Aeronautics,
Langley Field, Va., October 9, 1957.

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TABLE I

PHYSICAL CHARACTERISTICS OF MODEL

(a) Geometric characteristics

Quantity	Models I and II			Model III			Model IV		
	Wing	Tail	Fin	Wing	Tail	Fin	Wing	Tail	Fin
Aspect ratio	3.00	3.00	1.50	3.00	3.00	1.50	3.00	3.00	1.50
Sweepback of quarter chord, deg	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50
Taper ratio	.20	.20	.20	.20	.20	.20	.20	.20	.20
Incidence, deg	0	-1.00	0	0	-1.00	0	0	1.00	0
Dihedral, deg	-5.00	0	0	-5.00	0	0	-5.00	0	0
Area (total), sq ft	4.88	.78	.62	4.88	.78	.62	4.88	1.25	.62
Span (total), in.	45.90	18.36	11.61	45.90	18.36	11.61	45.90	23.22	11.61
Root chord, in.	25.50	10.20	12.90	25.50	10.20	12.90	25.50	12.90	12.90
Tip chord, in.	5.10	2.04	2.58	5.10	2.04	2.58	5.10	2.58	2.58
Mean aerodynamic chord, in.	17.57	7.03	8.90	17.57	7.03	8.90	17.57	8.90	8.90
Vertex location:									
Horizontal station, in.	31.36	74.78	76.04	31.36	79.44	76.04	31.36	61.89	76.04
Vertical station, in.	0	5.00	6.00	0	5.00	6.00	0	0	6.00
Fuselage station of leading edge of mean aerodynamic chord, in.	44.98	80.23	82.93	44.98	84.89	82.93	44.98	68.78	82.93
Spanwise station of mean aerodynamic chord, in.	8.92	3.57	4.51	8.92	3.57	4.51	8.92	4.51	4.51
NACA airfoil section	65A004	65A006	65A006	65A004	65A006	65A006	65A004	65A006	65A006

TABLE I.- Continued

PHYSICAL CHARACTERISTICS OF MODEL

(b) Mass characteristics

Quantity	Condition	Model I	Model II	Model III	Model IV
Center-of-gravity horizontal station, in.	Loaded	49.69	49.29	49.69	49.33
	Unloaded	49.49	49.09	49.45	49.09
Center of gravity percent back of leading edge of mean aerodynamic chord	Loaded	26.8	24.5	26.8	24.8
	Unloaded	25.7	23.4	25.4	23.4
Center-of-gravity vertical station, in.	Loaded	0	0	0	0
	Unloaded	0	0	0	0
Weight, lb	Loaded	189.0	190.0	189.0	190.0
	Unloaded	169.0	170.0	168.0	169.0
Wing loading, lb/sq ft	Loaded	38.8	39.0	38.8	39.0
	Unloaded	34.7	34.9	34.5	34.7
Moment of inertia, I_x , slug/sq ft	Loaded	.96	1.05	1.11	-----
	Unloaded	.94	.96	.93	-----
Moment of inertia, I_y , slug/sq ft	Loaded	12.43	13.29	13.21	13.58
	Unloaded	12.10	13.03	13.02	13.18
Moment of inertia, I_z , slug/sq ft	Loaded	-----	-----	-----	-----
	Unloaded	12.32	12.61	-----	-----
Inclination of principal axis with respect to body axis, deg	Unloaded	-----	-2.5	-----	-----

TABLE I.- Concluded.

PHYSICAL CHARACTERISTICS OF MODEL

(c) Body ordinates

[Dimensions are in inches]

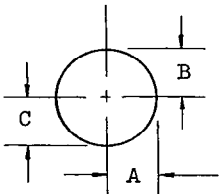
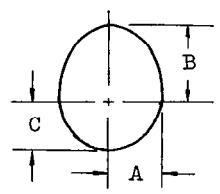
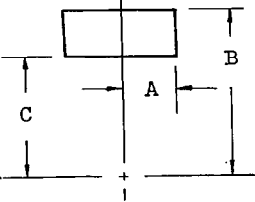
Fuselage station	A	B	C	Cross section
0	0	0	0	 <p>Circular</p>
10	1.68	1.68	1.68	
20	2.98	2.98	2.98	
30	3.90	3.90	3.90	
38.12	4.43	4.43	4.43	 <p>Two ellipses</p>
40	4.50	4.51	4.49	
50	4.18	4.82	4.39	
60	3.93	5.18	3.90	
70	3.42	5.52	3.02	
77 Jet exit	2.50	5.74	2.20	<p>Fairing from two ellipses ahead of the jet exit to rectangular aft of the jet exit with an abrupt transition occurring at the exit.</p>
80	2.12	5.84	-2.69	
83	2.00	6.00	-3.29	 <p>Rectangular</p>
90	2.00	6.00	-4.70	
96.33	2.00	6.00	-6.00	

TABLE II

ORDINATES OF PRESSURE ORIFICES

Model	Type of measurement	Orifice number	Location	Ordinate			
				x	y	z	
I	Static pressure	b	Annulus	77.00	0	1.85	
		1	Lower surface of boom	78.50	0	2.35	
		2		78.50	1.00	2.35	
		3		81.70	0	3.00	
		4		85.05	0	3.70	
		5		85.05	1.00	3.70	
		6		92.45	0	5.20	
II	Differential pressure	15	Horizontal tail (left)	80.15	3.00	5.00	
		16		81.10	3.00	5.00	
		17		82.05	3.00	5.00	
	Static pressure	18	Horizontal tail (right)	82.95	5.00	5.00	
		19		83.85	5.00	5.00	
	III	Differential pressure	10	Horizontal tail (left)	84.75	3.00	5.00
11			85.90		3.00	5.00	
12			86.90		3.00	5.00	
Static pressure			13	Horizontal tail (right)	87.60	5.00	5.00
			14		88.60	5.00	5.00
			1		Lower surface of boom	78.20	0
4	84.75	0	3.60				
IV	Static pressure	7	Upper surface of boom	81.00	1.25	6.00	
		8		83.00	1.25	6.00	
		9		85.00	1.25	6.00	
	Differential pressure	20	Horizontal tail (right)	71.00	4.55	0	
		21		73.25	4.55	0	

TABLE III
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II

Model I										Model II							
t, sec	M	α , deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t, sec
3.00	1.24	-1.26	.202	.199	.190	.210	-.362	-.244	-.191	1.18	-.04	-.011	.101	.109	.038	.090	3.00
3.01	1.24	-1.40	.204	.204	.184	.217	-.355	-.252	-.091	1.18	-.05	-.013	.103	.109	.043	.091	3.01
3.02	1.24	-1.20	.209	.199	.182	.216	-.352	-.254	-.096	1.18	-.06	-.023	.104	.111	.044	.091	3.02
3.03	1.24	-1.31	.203	.199	.194	.215	-.351	-.251	-.092	1.19	-.09	-.033	.106	.113	.043	.092	3.03
3.04	1.24	-1.28	.203	.203	.201	.217	-.342	-.249	-.091	1.19	-.07	-.040	.111	.114	.043	.091	3.04
3.05	1.25	-1.30	.201	.201	.197	.219	-.346	-.248	-.089	1.19	-.05	-.046	.113	.117	.042	.092	3.05
3.06	1.25	-1.21	.202	.203	.187	.218	-.344	-.246	-.093	1.19	-.06	-.050	.117	.115	.043	.093	3.06
3.07	1.25	-1.32	.201	.199	.191	.218	-.341	-.241	-.095	1.20	-.07	-.054	.119	.118	.042	.092	3.07
3.08	1.25	-1.25	.202	.201	.191	.218	-.339	-.241	-.092	1.20	-.06	-.055	.121	.121	.042	.092	3.08
3.09	1.25	-1.37	.203	.199	.195	.219	-.345	-.240	-.093	1.20	-.06	-.058	.121	.121	.043	.090	3.09
3.10	1.25	-1.38	.384	.201	.186	.219	-.370	-.237	-.096	1.20	-.12	-.058	.119	.123	.045	.090	3.10
3.11	1.25	-1.50	.202	.197	.191	.220	-.322	-.232	-.094	1.20	-.13	-.059	.117	.125	.040	.092	3.11
3.12	1.25	-1.38	.201	.195	.189	.220	-.373	-.233	-.092	1.21	-.14	-.060	.113	.127	.038	.090	3.12
3.13	1.25	-1.49	.202	.198	.191	.219	-.315	-.230	-.096	1.21	-.14	-.060	.109	.130	.034	.090	3.13
3.14	1.25	-1.48	.200	.195	.183	.220	-.311	-.233	-.091	1.21	-.13	-.062	.101	.134	.035	.090	3.14
3.15	1.25	-1.56	.201	.196	.185	.219	-.307	-.232	-.094	1.21	-.15	-.064	.097	.136	.034	.091	3.15
3.16	1.25	-1.66	.195	.200	.188	.220	-.300	-.220	-.094	1.21	-.15	-.065	.096	.138	.031	.090	3.16
3.17	1.24	-1.51	.191	.195	.187	.219	-.275	-.196	-.100	1.21	-.15	-.066	.093	.140	.029	.089	3.17
3.18	1.24	-1.66	.182	.183	.174	.227	-.209	-.134	-.105	1.21	-.19	-.066	.088	.142	.029	.089	3.18
3.19	1.24	-1.66	.177	.165	.177	.215	-.079	-.016	-.113	1.21	-.20	-.066	.085	.141	.028	.088	3.19
3.20	1.24	-1.84	.140	.153	.072	.204	.047	.075	-.119	1.22	-.20	-.067	.084	.142	.030	.087	3.20
3.21	1.24	-2.07	.175	.116	.115	.188	.157	.188	-.116	1.22	-.20	-.070	.082	.142	.029	.087	3.21
3.22	1.24	-2.18	.085	.087	.099	.171	.184	.197	-.100	1.21	-.22	-.071	.084	.143	.026	.085	3.22
3.23	1.24	-2.39	.055	.065	.084	.129	.190	.187	-.068	1.21	-.25	-.071	.082	.143	.027	.085	3.23
3.24	1.24	-2.61	.024	.029	.041	.068	.173	.073	.005	1.21	-.27	-.073	.081	.144	.028	.086	3.24
3.25	1.24	-2.51	-.004	-.005	.021	.023	.149	.037	.084	1.21	-.27	-.076	.080	.144	.028	.083	3.25
3.26	1.24	-2.48	-.039	-.037	-.015	-.011	.132	.090	.105	1.21	-.27	-.074	.080	.141	.024	.081	3.26
3.27	1.24	-2.37	-.076	-.076	-.093	-.034	.174	.004	.126	1.21	-.30	-.074	.079	.140	.025	.081	3.27
3.28	1.24	-2.11	-.125	-.138	-.109	-.052	.124	-.099	.133	1.21	-.32	-.074	.078	.140	.022	.077	3.28
3.29	1.24	-1.59	-.165	-.170	-.150	-.066	.125	-.064	.144	1.21	-.30	-.077	.074	.138	.018	.074	3.29
3.30	1.24	-.93	-.190	-.186	-.194	-.064	.179	-.102	.120	1.21	-.33	-.089	.065	.137	.011	.073	3.30
3.31	1.23	-.04	-.191	-.194	-.206	-.044	.133	-.126	.106	1.21	-.42	-.120	.048	.133	-.006	.067	3.31
3.32	1.23	1.08	-.193	-.201	-.206	-.039	.137	-.146	.082	1.21	-.53	-.147	.026	.128	-.034	.057	3.32
3.33	1.23	2.35	-.118	-.190	-.200	-.054	.141	-.155	.093	1.21	-.70	-.174	-.026	.111	-.079	.040	3.33
3.34	1.23	3.48	-.191	-.186	-.197	-.084	.146	-.152	.092	1.21	-.95	-.205	-.071	.052	-.136	.004	3.34
3.35	1.23	4.70	-.185	-.195	-.198	-.110	.146	-.136	.086	1.21	-1.20	-.233	-.107	-.025	-.213	-.069	3.35
3.36	1.23	5.33	-.184	-.196	-.200	-.124	.146	-.120	.085	1.21	-1.33	-.263	-.137	-.076	-.317	-.139	3.36
3.37	1.23	5.90	-.190	-.198	-.202	-.157	.143	-.116	.081	1.21	-1.42	-.292	-.175	-.124	-.472	-.197	3.37
3.38	1.23	5.93	-.187	-.202	-.199	-.136	.147	-.114	.081	1.21	-1.28	-.313	-.203	-.159	-.563	-.220	3.38
3.39	1.23	5.23	-.184	-.197	-.197	-.139	.138	-.176	.079	1.21	-1.01	-.326	-.230	-.193	-.622	-.247	3.39
3.40	1.23	5.19	-.182	-.197	-.197	-.143	.131	-.144	.077	1.21	-.66	-.334	-.248	-.223	-.637	-.340	3.40
3.41	1.23	4.17	-.188	-.193	-.200	-.135	.125	-.157	.078	1.21	-.16	-.335	-.258	-.254	-.642	-.375	3.41
3.42	1.23	3.37	-.183	-.198	-.200	-.123	.134	-.167	.079	1.21	.60	-.321	-.261	-.269	-.607	-.383	3.42
3.43	1.23	2.42	-.182	-.198	-.206	-.113	.135	-.175	.083	1.21	1.54	-.300	-.246	-.270	-.533	-.356	3.43
3.44	1.23	1.42	-.195	-.200	-.205	-.098	.142	-.174	.081	1.21	2.65	-.273	-.225	-.248	-.440	-.320	3.44
3.45	1.23	1.01	-.187	-.199	-.211	-.089	.144	-.166	.082	1.21	3.79	-.238	-.194	-.210	-.361	-.256	3.45
3.46	1.22	.74	-.185	-.199	-.213	-.079	.150	-.158	.078	1.21	4.83	-.210	-.162	-.172	-.304	-.196	3.46
3.47	1.22	.86	-.185	-.201	-.213	-.081	.152	-.156	.080	1.20	5.56	-.185	-.135	-.135	-.257	-.147	3.47
3.48	1.22	1.27	-.182	-.203	-.206	-.081	.156	-.151	.082	1.20	6.04	-.170	-.118	-.105	-.221	-.127	3.48
3.49	1.22	2.02	-.181	-.198	-.200	-.083	.157	-.142	.078	1.20	6.14	-.167	-.117	-.098	-.205	-.122	3.49
3.50	1.22	2.54	-.181	-.198	-.204	-.084	.159	-.141	.082	1.20	5.84	-.171	-.118	-.108	-.211	-.130	3.50
3.51	1.22	3.39	-.184	-.203	-.200	-.092	.156	-.135	.081	1.20	5.33	-.184	-.127	-.122	-.236	-.149	3.51
3.52	1.22	4.13	-.181	-.196	-.196	-.099	.157	-.134	.089	1.20	4.69	-.196	-.142	-.138	-.272	-.173	3.52
3.53	1.22	4.59	-.183	-.200	-.198	-.110	.148	-.132	.083	1.20	3.89	-.212	-.159	-.156	-.308	-.204	3.53
3.54	1.22	4.78	-.178	-.200	-.198	-.128	.142	-.133	.081	1.20	3.04	-.231	-.166	-.174	-.335	-.197	3.54
3.55	1.22	4.68	-.185	-.201	-.198	-.131	.139	-.132	.081	1.20	2.34	-.252	-.201	-.193	-.349	-.282	3.55
3.56	1.22	4.62	-.182	-.200	-.196	-.132	.136	-.139	.079	1.20	1.84	-.265	-.217	-.214	-.384	-.319	3.56
3.57	1.22	4.10	-.178	-.198	-.201	-.135	.134	-.148	.080	1.20	1.58	-.276	-.228	-.232	-.419	-.341	3.57
3.58	1.22	3.49	-.181	-.198	-.201	-.126	.136	-.157	.078	1.20	1.57	-.272	-.228	-.237	-.429	-.331	3.58
3.59	1.22	3.04	-.178	-.197	-.201	-.117	.137	-.161	.080	1.20	1.94	-.247	-.164	-.198	-.342	-.201	3.59
3.60	1.21	2.27	-.186	-.197	-.202	-.116	.141	-.165	.084	1.20	2.02	-.086	-.014	-.059	-.098	-.045	3.60
3.61	1.21	2.08	-.186	-.196	-.200	-.114	.147	-.169	.084	1.20	2.00	.053	.103	.059	.014	.011	3.61
3.62	1.21	1.89	-.181	-.198	-.208	-.109	.150	-.167	.085	1.20	2.00	.047	.090	.054	.021	-.007	3.62
3.63	1.21	1.85	-.181	-.197	-.205	-.106	.152	-.161	.084	1.20	1.99	.003	.061	.025	-.019	-.030	3.63
3.64	1.21	1.93	-.182	-.198	-.202	-.108	.153	-.156	.084	1.20	2.06	-.031	.036	.004	-.049	-.047	3.64
3.65	1.21	2.12	-.178	-.197	-.211	-.106	.154	-.153	.082	1.20	2.08	-.061	.016	-.009	-.057	-.050	3.65
3.66	1.21	2.34	-.177	-.198	-.206	-.116	.158	-.151	.085	1.20	2.06	-.091	.012	-.018	-.079	-.067	3.66
3.67	1.21	2.67	-.178	-.197	-.203	-.112	.159	-.153	.085	1.20	2.02	-.117	.007	-.029	-.089	-.073	3.67
3.68	1.21	3.22	-.178	-.199	-.202	-.117	.158	-.152	.087	1.20	2.05	-.131	.002	-.033	-.099	-.076	3.68
3.69	1.21	3.62	-.176	-.196	-.202	-.111	.160	-.147	.087	1.20	1.75	-.148	-.004	-.038	-.110	-.084	3.69
3.70	1.21	3.78	-.178	-.204	-.200	-.116	.156	-.148	.084	1.20	1.59	-.159	-.011	-.038	-.114	-.094	3.70
3.71	1.21	3.90	-.173	-.200	-.201	-.109	.155	-.147	.090	1.20	1.42	-.169	-.016	-.040	-.120	-.100	3.71
3.72	1.21	3.99	-.171	-.203	-.195	-.107	.151	-.146	.085	1.20	1.31	-.172	-.025	-.040	-.121	-.107	3.72
3.73	1.21	3.90	-.177	-.200	-.199	-.116	.152	-.145	.083	1.21	1.21	-.172					

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t_{acc}	M	α_{deg}	$C_{p,2}$	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	M	α_{deg}	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t_{acc}
3.80	1.20	1.90	-0.049	-0.027	-0.060	-0.073	0.086	-0.095	0.064	1.21	1.68	-0.123	-0.000	-0.026	-0.117	-0.099	3.80
3.81	1.20	1.62	-0.050	-0.169	0.062	-0.009	0.069	-0.053	0.049	1.21	1.73	-0.112	0.004	-0.023	-0.117	-0.094	3.81
3.82	1.20	0.97	0.132	0.346	0.207	-0.027	0.087	-0.030	0.037	1.21	1.80	-0.108	0.005	-0.023	-0.117	-0.092	3.82
3.83	1.20	0.55	0.098	0.307	0.228	-0.053	0.056	-0.029	0.017	1.21	1.81	-0.109	0.009	-0.021	-0.115	-0.092	3.83
3.84	1.20	0.28	0.042	0.178	0.165	-0.066	0.061	-0.024	-0.004	1.21	1.79	-0.110	0.007	-0.020	-0.114	-0.095	3.84
3.85	1.21	0.17	-0.013	0.092	0.110	-0.067	0.077	-0.001	-0.042	1.21	1.72	-0.111	0.006	-0.019	-0.114	-0.097	3.85
3.86	1.21	0.10	-0.027	0.041	0.075	-0.058	0.112	0.029	-0.075	1.21	1.61	-0.113	0.002	-0.019	-0.114	-0.101	3.86
3.87	1.21	0.27	-0.034	0.029	0.056	-0.046	0.230	0.070	-0.078	1.21	1.54	-0.116	-0.000	-0.019	-0.113	-0.102	3.87
3.88	1.21	0.52	-0.039	0.018	0.024	-0.036	0.377	0.118	-0.075	1.21	1.48	-0.122	-0.006	-0.018	-0.114	-0.104	3.88
3.89	1.21	0.78	-0.046	0.014	0.027	-0.026	0.440	0.167	-0.059	1.21	1.44	-0.125	-0.009	-0.019	-0.113	-0.106	3.89
3.90	1.21	0.90	-0.049	0.010	0.011	-0.023	0.456	0.207	-0.134	1.21	1.41	-0.127	-0.011	-0.020	-0.113	-0.105	3.90
3.91	1.21	1.29	-0.041	0.011	0.004	0.015	0.445	0.220	-0.032	1.21	1.37	-0.129	-0.007	-0.021	-0.117	-0.098	3.91
3.92	1.21	1.45	-0.038	0.016	-0.021	0.008	0.419	0.186	-0.055	1.21	1.38	-0.127	-0.003	-0.023	-0.113	-0.094	3.92
3.93	1.21	1.53	-0.048	0.009	-0.034	0.002	0.364	0.141	-0.053	1.21	1.42	-0.124	-0.004	-0.025	-0.112	-0.091	3.93
3.94	1.21	1.44	-0.064	-0.016	-0.046	0.016	0.317	0.120	-0.037	1.21	1.51	-0.125	-0.004	-0.025	-0.111	-0.091	3.94
3.95	1.21	1.29	-0.106	-0.057	-0.075	0.034	0.294	0.090	-0.022	1.21	1.55	-0.123	-0.001	-0.029	-0.111	-0.087	3.95
3.96	1.21	1.15	-0.124	-0.103	-0.104	0.070	0.294	0.096	-0.029	1.21	1.62	-0.120	-0.001	-0.027	-0.110	-0.086	3.96
3.97	1.21	0.88	-0.144	-0.126	-0.122	0.051	0.244	0.046	0.002	1.21	1.67	-0.119	-0.000	-0.027	-0.108	-0.083	3.97
3.98	1.21	0.71	-0.150	-0.152	-0.148	0.029	0.211	-0.003	0.018	1.21	1.69	-0.117	0.001	-0.029	-0.106	-0.083	3.98
3.99	1.21	0.73	-0.097	-0.166	-0.171	0.001	0.188	-0.063	0.047	1.22	1.67	-0.115	0.003	-0.027	-0.105	-0.080	3.99
4.00	1.21	0.93	-0.172	-0.178	-0.179	-0.038	0.169	-0.116	0.074	1.22	1.62	-0.115	0.004	-0.027	-0.102	-0.081	4.00
4.01	1.21	1.42	-0.167	-0.185	-0.189	-0.067	0.164	-0.148	0.088	1.22	1.63	-0.114	0.005	-0.027	-0.100	-0.082	4.01
4.02	1.21	2.17	-0.176	-0.200	-0.199	-0.087	0.162	-0.153	0.092	1.22	1.65	-0.112	0.007	-0.026	-0.100	-0.082	4.02
4.03	1.21	2.87	-0.179	-0.199	-0.202	-0.100	0.160	-0.149	0.093	1.22	1.66	-0.111	0.004	-0.026	-0.092	-0.082	4.03
4.04	1.21	3.59	-0.171	-0.203	-0.208	-0.111	0.159	-0.145	0.091	1.22	1.69	-0.110	0.005	-0.028	-0.099	-0.085	4.04
4.05	1.21	4.10	-0.177	-0.202	-0.209	-0.117	0.154	-0.144	0.090	1.22	1.67	-0.110	0.006	-0.030	-0.097	-0.087	4.05
4.06	1.21	4.60	-0.177	-0.204	-0.208	-0.122	0.151	-0.140	0.087	1.22	1.62	-0.110	0.006	-0.030	-0.099	-0.089	4.06
4.07	1.21	4.82	-0.178	-0.206	-0.206	-0.125	0.145	-0.137	0.088	1.22	1.58	-0.111	0.005	-0.030	-0.099	-0.091	4.07
4.08	1.21	4.77	-0.174	-0.205	-0.198	-0.128	0.144	-0.139	0.086	1.22	1.52	-0.110	0.006	-0.032	-0.099	-0.093	4.08
4.09	1.21	4.52	-0.174	-0.203	-0.201	-0.128	0.136	-0.141	0.089	1.22	1.52	-0.110	0.006	-0.030	-0.097	-0.094	4.09
4.10	1.21	4.08	-0.171	-0.204	-0.210	-0.127	0.137	-0.142	0.083	1.22	1.53	-0.110	0.004	-0.028	-0.094	-0.094	4.10
4.11	1.21	3.52	-0.171	-0.203	-0.208	-0.127	0.141	-0.141	0.086	1.22	1.55	-0.111	0.005	-0.029	-0.093	-0.093	4.11
4.12	1.21	3.09	-0.176	-0.203	-0.208	-0.120	0.144	-0.141	0.089	1.22	1.61	-0.111	0.006	-0.026	-0.094	-0.091	4.12
4.13	1.21	2.76	-0.168	-0.203	-0.212	-0.116	0.145	-0.147	0.094	1.22	1.61	-0.110	0.006	-0.022	-0.093	-0.084	4.13
4.14	1.20	2.21	-0.167	-0.206	-0.209	-0.109	0.149	-0.148	0.087	1.22	1.61	-0.112	0.011	-0.020	-0.093	-0.082	4.14
4.15	1.20	2.08	-0.169	-0.209	-0.218	-0.109	0.148	-0.146	0.094	1.22	1.61	-0.114	0.010	-0.021	-0.091	-0.082	4.15
4.16	1.20	1.98	-0.172	-0.203	-0.216	-0.105	0.144	-0.142	0.093	1.22	1.64	-0.116	0.009	-0.024	-0.088	-0.083	4.16
4.17	1.20	1.99	-0.173	-0.201	-0.210	-0.106	0.148	-0.138	0.087	1.23	1.67	-0.118	0.009	-0.023	-0.088	-0.083	4.17
4.18	1.20	2.21	-0.174	-0.208	-0.213	-0.105	0.147	-0.134	0.087	1.23	1.69	-0.116	0.006	-0.022	-0.086	-0.079	4.18
4.19	1.20	2.48	-0.179	-0.211	-0.213	-0.104	0.145	-0.125	0.089	1.23	1.70	-0.116	0.008	-0.023	-0.084	-0.075	4.19
4.20	1.20	2.55	-0.185	-0.201	-0.204	-0.103	0.147	-0.134	0.088	1.23	1.70	-0.117	0.007	-0.022	-0.084	-0.073	4.20
4.21	1.20	3.17	-0.186	-0.198	-0.197	-0.101	0.151	-0.134	0.091	1.23	1.73	-0.114	0.008	-0.023	-0.083	-0.074	4.21
4.22	1.20	3.38	-0.180	-0.199	-0.206	-0.109	0.149	-0.141	0.088	1.23	1.73	-0.115	0.008	-0.022	-0.081	-0.072	4.22
4.23	1.20	3.81	-0.180	-0.195	-0.203	-0.123	0.150	-0.143	0.085	1.23	1.72	-0.113	0.010	-0.021	-0.082	-0.078	4.23
4.24	1.20	3.81	-0.180	-0.195	-0.203	-0.123	0.150	-0.143	0.085	1.23	1.73	-0.115	0.009	-0.019	-0.080	-0.078	4.24
4.25	1.20	3.73	-0.184	-0.195	-0.197	-0.124	0.147	-0.148	0.085	1.23	1.72	-0.115	0.010	-0.019	-0.080	-0.080	4.25
4.26	1.20	3.58	-0.186	-0.194	-0.202	-0.124	0.146	-0.150	0.091	1.23	1.70	-0.115	0.011	-0.018	-0.082	-0.081	4.26
4.27	1.20	3.48	-0.186	-0.200	-0.197	-0.126	0.144	-0.155	0.085	1.23	1.72	-0.115	0.012	-0.013	-0.083	-0.081	4.27
4.28	1.20	3.41	-0.184	-0.199	-0.203	-0.117	0.142	-0.157	0.090	1.23	1.73	-0.114	0.010	-0.015	-0.084	-0.082	4.28
4.29	1.19	3.00	-0.183	-0.194	-0.206	-0.117	0.140	-0.158	0.086	1.23	1.73	-0.112	0.012	-0.015	-0.084	-0.080	4.29
4.30	1.19	2.83	-0.178	-0.195	-0.200	-0.111	0.141	-0.154	0.092	1.23	1.70	-0.112	0.010	-0.015	-0.083	-0.080	4.30
4.31	1.19	2.61	-0.178	-0.191	-0.205	-0.107	0.142	-0.154	0.096	1.23	1.67	-0.111	0.012	-0.016	-0.084	-0.079	4.31
4.32	1.19	2.51	-0.175	-0.195	-0.197	-0.099	0.139	-0.155	0.088	1.23	1.67	-0.111	0.013	-0.015	-0.083	-0.080	4.32
4.33	1.19	2.49	-0.175	-0.195	-0.210	-0.098	0.141	-0.150	0.083	1.23	1.66	-0.108	0.014	-0.015	-0.085	-0.079	4.33
4.34	1.19	2.47	-0.174	-0.195	-0.203	-0.095	0.138	-0.147	0.089	1.23	1.68	-0.105	0.012	-0.015	-0.083	-0.077	4.34
4.35	1.19	2.54	-0.177	-0.198	-0.209	-0.095	0.141	-0.139	0.088	1.24	1.71	-0.108	0.012	-0.012	-0.081	-0.078	4.35
4.36	1.19	2.71	-0.174	-0.201	-0.205	-0.093	0.140	-0.141	0.090	1.24	1.73	-0.110	0.014	-0.011	-0.080	-0.077	4.36
4.37	1.19	2.81	-0.179	-0.202	-0.203	-0.093	0.144	-0.138	0.088	1.24	1.73	-0.112	0.014	-0.012	-0.080	-0.076	4.37
4.38	1.19	2.93	-0.176	-0.202	-0.213	-0.100	0.145	-0.137	0.090	1.24	1.73	-0.117	0.010	-0.012	-0.076	-0.077	4.38
4.39	1.19	3.19	-0.174	-0.196	-0.205	-0.097	0.147	-0.137	0.094	1.24	1.63	-0.124	0.015	-0.018	-0.078	-0.072	4.39
4.40	1.19	3.32	-0.180	-0.194	-0.199	-0.102	0.149	-0.135	0.087	1.24	1.63	-0.126	0.014	-0.022	-0.077	-0.071	4.40
4.41	1.19	3.38	-0.184	-0.199	-0.199	-0.104	0.151	-0.132	0.088	1.24	1.67	-0.123	0.009	-0.020	-0.069	-0.074	4.41
4.42	1.19	3.32	-0.187	-0.193	-0.197	-0.109	0.147	-0.137	0.088	1.24	1.66	-0.125	0.007	-0.019	-0.067	-0.074	4.42
4.43	1.19	3.40	-0.173	-0.210	-0.212	-0.103	0.152	-0.135	0.087	1.24	1.65	-0.126	0.006	-0.019	-0.065	-0.074	4.43
4.44	1.18	3.52	-0.168	-0.206	-0.208	-0.111	0.150	-0.134	0.088	1.24	1.64	-0.125	0.006	-0.018	-0.062	-0.075	4.44
4.45	1.18	3.25	-0.167	-0.211	-0.219	-0.111	0.147	-0.139	0.087	1.24	1.66	-0.126	0.006	-0.018	-0.063	-0.074	4.45
4.46	1.18	3															

TABLE III.- Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α , deg	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}		M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t ₂ , sec
4.60	1.17	3.03	-1.177	-1.193	-1.198	-1.108	.150	-1.136	.092	1.25	1.59	-1.125	.008	.012	-.059	-.073	4.660
4.61	1.17	3.09	-.184	-.194	-.199	-.107	.149	-1.140	.095	1.25	1.62	-1.124	.006	.010	-.057	-.072	4.661
4.62	1.17	2.93	-1.185	-1.189	-1.197	-.105	.157	-1.136	.088	1.25	1.64	-1.126	.006	.012	-.055	-.071	4.662
4.63	1.17	2.91	-1.182	-1.190	-.201	-.105	.150	-1.134	.090	1.25	1.67	-1.127	.009	.010	-.053	-.068	4.663
4.64	1.17	2.80	-1.178	-1.190	-.203	-.105	.150	-1.138	.089	1.25	1.69	-1.127	.007	.009	-.051	-.068	4.664
4.65	1.17	2.81	-1.181	-1.192	-1.190	-.105	.148	-1.137	.092	1.25	1.73	-1.129	.007	.009	-.050	-.066	4.665
4.66	1.17	2.73	-1.186	-1.192	-1.195	-.109	.146	-1.139	.092	1.25	1.75	-1.128	.007	.008	-.048	-.064	4.666
4.67	1.17	2.61	-1.181	-1.190	-1.197	-.108	.145	-1.136	.093	1.25	1.75	-1.128	.008	.008	-.046	-.063	4.667
4.68	1.17	2.67	-1.181	-1.195	-1.205	-.108	.146	-1.141	.091	1.25	1.72	-1.128	.008	.007	-.048	-.064	4.668
4.69	1.17	2.61	-1.182	-1.192	-1.205	-.109	.145	-1.136	.090	1.25	1.74	-1.127	.008	.008	-.046	-.064	4.669
4.70	1.17	2.59	-1.187	-1.199	-.201	-.103	.145	-1.138	.098	1.25	1.71	-1.128	.008	.006	-.046	-.067	4.670
4.71	1.17	2.61	-1.177	-.194	-.203	-.108	.149	-1.137	.093	1.26	1.69	-1.129	.009	.006	-.049	-.064	4.721
4.72	1.17	2.70	-1.179	-.193	-.206	-.101	.149	-1.141	.091	1.26	1.69	-1.129	.009	.008	-.047	-.065	4.722
4.73	1.17	2.76	-1.184	-.197	-.197	-.111	.148	-1.132	.093	1.26	1.66	-1.128	.009	.007	-.049	-.066	4.723
4.74	1.17	2.75	-1.179	-.192	-.204	-.102	.149	-1.137	.094	1.26	1.65	-1.128	.009	.008	-.049	-.067	4.724
4.75	1.16	2.81	-1.178	-.193	-.194	-.108	.151	-1.140	.095	1.26	1.66	-1.128	.008	.006	-.049	-.065	4.725
4.76	1.16	2.82	-1.176	-.195	-.208	-.108	.148	-1.135	.093	1.26	1.68	-1.127	.008	.006	-.049	-.065	4.726
4.77	1.16	2.91	-1.175	-.188	-.204	-.100	.151	-1.135	.093	1.26	1.68	-1.129	.008	.006	-.048	-.065	4.727
4.78	1.16	2.84	-1.173	-.189	-.196	-.104	.150	-1.135	.097	1.26	1.68	-1.129	.008	.006	-.049	-.065	4.728
4.79	1.16	2.84	-1.178	-.187	-.196	-.106	.149	-1.133	.099	1.26	1.69	-1.128	.008	.006	-.049	-.063	4.729
4.80	1.16	2.79	-1.174	-.190	-.194	-.107	.146	-1.136	.091	1.26	1.73	-1.126	.005	.004	-.049	-.062	4.80
4.81	1.16	2.76	-1.183	-.194	-.202	-.108	.150	-1.134	.098	1.26	1.72	-1.128	.006	.002	-.049	-.062	4.81
4.82	1.16	2.77	-1.181	-.191	-.198	-.113	.150	-1.134	.096	1.26	1.72	-1.128	.006	.002	-.050	-.060	4.82
4.83	1.16	2.65	-1.182	-.192	-.198	-.113	.149	-1.135	.100	1.26	1.68	-1.127	.008	.003	-.052	-.059	4.83
4.84	1.16	2.66	-1.178	-.188	-.203	-.111	.149	-1.135	.096	1.26	1.72	-1.127	.008	.003	-.052	-.059	4.83
4.85	1.16	2.69	-1.174	-.192	-.199	-.112	.150	-1.137	.100	1.26	1.70	-1.128	.007	.002	-.050	-.056	4.85
4.86	1.16	2.74	-1.174	-.191	-.199	-.112	.150	-1.134	.098	1.26	1.69	-1.128	.007	.001	-.050	-.056	4.86
4.87	1.16	2.70	-1.181	-.189	-.201	-.112	.150	-1.136	.095	1.26	1.67	-1.130	.005	.001	-.050	-.058	4.87
4.88	1.16	2.72	-1.175	-.194	-.208	-.110	.152	-1.137	.095	1.26	1.70	-1.129	.007	.000	-.049	-.053	4.88
4.89	1.16	2.62	-1.176	-.194	-.206	-.112	.152	-1.136	.095	1.27	1.70	-1.129	.006	.002	-.050	-.052	4.89
4.90	1.16	2.65	-1.172	-.190	-.207	-.113	.150	-1.132	.095	1.27	1.70	-1.129	.005	.002	-.048	-.053	4.90
4.91	1.16	2.82	-1.171	-.190	-.207	-.111	.150	-1.133	.097	1.27	1.72	-1.131	.005	.000	-.047	-.053	4.91
4.92	1.16	2.77	-1.175	-.193	-.196	-.116	.150	-1.133	.101	1.27	1.68	-1.129	.003	.001	-.048	-.051	4.92
4.93	1.16	2.84	-1.175	-.192	-.201	-.115	.153	-1.131	.096	1.27	1.68	-1.129	.003	.000	-.048	-.051	4.92
4.94	1.15	2.69	-1.168	-.188	-.206	-.115	.151	-1.130	.098	1.27	1.69	-1.130	.003	.001	-.048	-.050	4.94
4.95	1.15	2.79	-1.172	-.196	-.200	-.118	.153	-1.132	.096	1.27	1.72	-1.129	.003	.000	-.049	-.050	4.95
4.96	1.15	2.81	-1.173	-.192	-.197	-.118	.150	-1.138	.100	1.27	1.74	-1.129	.003	.000	-.048	-.050	4.96
4.97	1.15	2.69	-1.169	-.193	-.202	-.113	.150	-1.135	.097	1.27	1.75	-1.130	.004	.002	-.047	-.049	4.97
4.98	1.15	2.74	-1.162	-.191	-.202	-.112	.149	-1.134	.102	1.27	1.92	-1.133	.004	.001	-.047	-.049	4.98
4.99	1.15	2.70	-1.173	-.191	-.201	-.114	.155	-1.136	.099	1.27	2.82	-1.132	.005	.002	-.048	-.048	4.99
5.00	1.15	2.54	-1.179	-.191	-.195	-.114	.153	-1.138	.098	1.27	1.58	-1.129	.006	.002	-.049	-.047	5.00
5.01	1.15	2.55	-1.168	-.191	-.194	-.107	.153	-1.137	.097	1.27	1.76	-1.128	.007	.003	-.049	-.047	5.01
5.02	1.15	2.65	-1.173	-.191	-.192	-.116	.153	-1.135	.097	1.27	1.75	-1.126	.006	.004	-.048	-.049	5.02
5.03	1.15	2.64	-1.171	-.191	-.194	-.115	.154	-1.131	.097	1.27	1.74	-1.128	.003	.003	-.048	-.051	5.03
5.04	1.15	2.53	-1.171	-.194	-.194	-.118	.151	-1.128	.100	1.27	1.74	-1.128	.003	.005	-.049	-.051	5.04
5.05	1.15	2.56	-1.165	-.189	-.187	-.113	.153	-1.133	.100	1.27	1.75	-1.125	.004	.005	-.049	-.051	5.05
5.06	1.15	2.71	-1.169	-.191	-.200	-.115	.155	-1.133	.102	1.28	1.73	-1.126	.004	.004	-.048	-.051	5.06
5.07	1.15	2.67	-1.172	-.191	-.194	-.117	.153	-1.132	.101	1.28	1.75	-1.127	.004	.004	-.047	-.052	5.07
5.08	1.15	2.65	-1.167	-.189	-.194	-.114	.151	-1.135	.100	1.28	1.77	-1.125	.005	.006	-.048	-.052	5.08
5.09	1.15	2.67	-1.168	-.189	-.194	-.117	.150	-1.132	.099	1.28	1.76	-1.125	.005	.006	-.048	-.051	5.09
5.10	1.15	2.67	-1.168	-.191	-.194	-.117	.151	-1.134	.099	1.28	1.77	-1.124	.003	.007	-.050	-.051	5.10
5.11	1.15	2.74	-1.164	-.192	-.192	-.116	.154	-1.133	.102	1.28	1.72	-1.128	.006	.005	-.052	-.048	5.11
5.12	1.15	2.72	-1.166	-.193	-.191	-.107	.152	-1.133	.101	1.28	1.76	-1.128	.005	.005	-.052	-.046	5.12
5.13	1.14	2.74	-1.168	-.192	-.192	-.119	.151	-1.136	.098	1.28	1.79	-1.128	.002	.005	-.052	-.044	5.13
5.14	1.14	2.68	-1.162	-.193	-.191	-.118	.150	-1.129	.101	1.28	1.78	-1.128	.003	.007	-.052	-.044	5.14
5.15	1.14	2.68	-1.164	-.197	-.188	-.116	.148	-1.130	.101	1.28	1.79	-1.126	.003	.007	-.052	-.044	5.15
5.16	1.14	2.77	-1.163	-.199	-.191	-.117	.148	-1.130	.101	1.28	1.79	-1.127	.003	.007	-.052	-.044	5.16
5.17	1.14	2.65	-1.163	-.196	-.195	-.115	.147	-1.138	.098	1.28	1.79	-1.127	.003	.006	-.050	-.045	5.17
5.18	1.14	2.69	-1.163	-.196	-.198	-.117	.148	-1.137	.103	1.28	1.81	-1.125	.005	.009	-.057	-.043	5.18
5.19	1.14	2.61	-1.165	-.196	-.195	-.117	.147	-1.140	.101	1.28	1.79	-1.126	.005	.010	-.062	-.044	5.19
5.20	1.14	2.56	-1.170	-.186	-.188	-.114	.151	-.143	.102	1.28	1.80	-1.128	.003	.012	-.065	-.042	5.20
5.21	1.14	2.60	-1.182	-.181	-.191	-.115	.147	-.143	.100	1.28	1.79	-1.127	.007	.012	-.074	-.041	5.21
5.22	1.14	2.53	-1.170	-.178	-.187	-.120	.150	-.137	.102	1.28	1.78	-1.128	.003	.011	-.074	-.040	5.22
5.23	1.14	2.60	-1.176	-.181	-.189	-.117	.149	-.137	.103	1.28	1.80	-1.126	.004	.010	-.077	-.040	5.23
5.24	1.14	2.60	-1.167	-.181	-.187	-.116	.148	-.136	.098	1.29	1.80	-1.125	.005	.012	-.077	-.040	5.24
5.25	1.14	2.65	-1.172	-.182	-.180	-.124	.143	-.139	.104	1.29	1.82	-1.127	.005	.011	-.074	-.039	5.25
5.26	1.14	2.64	-1.171	-.179	-.175	-.121	.143	-.137	.104	1.29	1.82	-1.126	.005	.012	-.076	-.039	5.26
5.27	1.14	2.65	-1.165	-.177	-.171	-.123	.145	-.137	.102	1.29	1.82	-1.126	.004	.012	-.076	-.039	5.27
5.28	1.14	2.69	-1.169	-.194	-.171	-.123	.144	-.138	.103	1.29	1.81	-1.129	.005	.009	-.057	-.038	5.28
5.29	1.14	2.65	-1.167	-.177	-.174	-.123	.150	-.136	.104	1.29	1.80	-1.126	.005	.012	-.079	-.036	5.29
5.30	1.13	2.73	-1.174	-.183	-.175	-.117	.146	-.133	.106	1.29	1.83	-1.126	.003	.013	-.081	-.036	5.30
5.31	1.13	2.61	-1.167	-.183	-.177	-.119	.146	-.138									

TABLE III. - Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α , deg	$C_{p,b}$	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	M	α , deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t , sec
5.40	1.13	2.55	-.168	-.174	-.169	-.110	-.135	-.153	.098	1.29	1.89	-.127	.005	.016	-.083	-.028	5.40
5.41	1.12	2.60	-.157	-.170	-.177	-.112	-.139	-.153	.103	1.30	1.87	-.127	.007	.016	-.084	-.028	5.41
5.42	1.12	2.58	-.164	-.170	-.172	-.116	-.138	-.149	.103	1.30	1.87	-.126	.005	.016	-.089	-.028	5.42
5.43	1.12	2.66	-.167	-.176	-.178	-.111	-.137	-.156	.099	1.30	1.84	-.124	.006	.016	-.091	-.028	5.43
5.44	1.12	2.54	-.154	-.177	-.172	-.113	-.135	-.154	.100	1.30	1.86	-.124	.005	.016	-.091	-.029	5.44
5.45	1.12	2.68	-.160	-.177	-.179	-.114	-.133	-.158	.098	1.30	1.87	-.123	.007	.017	-.091	-.027	5.45
5.46	1.12	2.65	-.159	-.173	-.168	-.110	-.129	-.159	.096	1.30	1.86	-.124	.006	.017	-.094	-.026	5.46
5.47	1.12	2.61	-.162	-.173	-.170	-.114	-.128	-.156	.097	1.30	1.87	-.123	.007	.019	-.094	-.026	5.47
5.48	1.12	2.70	-.166	-.175	-.170	-.117	-.127	-.164	.098	1.30	1.89	-.124	.006	.019	-.092	-.024	5.48
5.49	1.12	2.63	-.153	-.175	-.172	-.113	-.120	-.164	.103	1.30	1.83	-.125	.007	.019	-.092	-.024	5.49
5.50	1.12	2.67	-.155	-.170	-.168	-.114	-.111	-.159	.103	1.30	1.87	-.118	.008	.021	-.092	-.025	5.50
5.51	1.12	2.66	-.155	-.163	-.162	-.110	-.111	-.161	.109	1.30	1.84	-.123	.008	.018	-.095	-.022	5.51
5.52	1.12	2.56	-.157	-.165	-.163	-.119	-.105	-.159	.104	1.30	1.90	-.122	.010	.018	-.096	-.021	5.52
5.53	1.12	2.43	-.151	-.164	-.162	-.117	-.101	-.159	.109	1.30	1.85	-.121	.010	.019	-.096	-.020	5.53
5.54	1.12	2.66	-.153	-.158	-.167	-.126	.092	-.154	.110	1.30	1.88	-.123	.010	.019	-.096	-.022	5.54
5.55	1.12	2.65	-.144	-.145	-.152	-.120	.093	-.153	.105	1.30	1.90	-.122	.010	.018	-.098	-.022	5.55
5.56	1.12	2.64	-.145	-.143	-.144	-.118	.072	-.154	.113	1.30	1.90	-.125	.008	.019	-.098	-.021	5.56
5.57	1.12	2.62	-.138	-.138	-.137	-.127	.054	-.148	.110	1.30	1.91	-.122	.008	.019	-.098	-.020	5.57
5.58	1.11	2.64	-.124	-.131	-.131	-.123	.028	-.140	.107	1.30	1.89	-.123	.009	.019	-.100	-.020	5.58
5.59	1.11	2.73	-.108	-.115	-.117	-.125	.000	-.125	.108	1.30	1.86	-.121	.013	.020	-.100	-.019	5.59
5.60	1.11	2.62	-.117	-.099	-.100	-.121	-.016	-.110	.109	1.31	1.87	-.122	.011	.021	-.101	-.018	5.60
5.61	1.11	2.63	-.083	-.086	-.084	-.121	-.077	-.100	.104	1.31	1.90	-.120	.011	.021	-.102	-.019	5.61
5.62	1.11	2.56	-.100	-.096	-.091	-.124	-.016	-.102	.110	1.31	1.86	-.120	.010	.021	-.106	-.019	5.62
5.63	1.11	2.54	-.150	-.158	-.145	-.128	.011	-.212	.113	1.31	1.74	-.118	.008	.020	-.083	-.018	5.63
5.64	1.11	2.46	-.165	-.163	-.155	-.120	.067	-.153	.108	1.31	1.52	-.119	.008	.022	-.026	-.018	5.64
5.65	1.11	2.52	-.164	-.167	-.165	-.122	.096	-.157	.108	1.31	1.15	-.125	.007	.021	-.019	-.018	5.65
5.66	1.11	2.57	-.163	-.172	-.165	-.127	.102	-.162	.111	1.31	.74	-.137	.003	.018	-.054	-.023	5.66
5.67	1.11	2.50	-.163	-.165	-.161	-.123	.111	-.157	.105	1.31	.27	-.157	-.011	.004	-.132	-.041	5.67
5.68	1.11	2.61	-.156	-.162	-.147	-.122	.110	-.161	.101	1.31	.11	-.176	-.035	-.019	-.166	-.045	5.68
5.69	1.11	2.55	-.155	-.164	-.161	-.120	.104	-.159	.111	1.31	.27	-.178	-.032	-.023	-.169	-.042	5.69
5.70	1.11	2.65	-.149	-.154	-.152	-.112	.096	-.156	.105	1.31	.61	-.172	-.028	-.013	-.160	-.037	5.70
5.71	1.11	2.58	-.143	-.154	-.145	-.118	.093	-.159	.109	1.32	1.09	-.158	-.019	.006	-.151	-.028	5.71
5.72	1.11	2.69	-.136	-.143	-.142	-.122	.066	-.156	.110	1.31	1.69	-.143	-.012	.011	-.127	-.015	5.72
5.73	1.11	2.65	-.133	-.137	-.144	-.116	.043	-.154	.110	1.31	2.23	-.132	-.001	.024	-.082	.003	5.73
5.74	1.11	2.75	-.125	-.139	-.134	-.116	.026	-.145	.111	1.31	2.70	-.117	.011	.030	-.040	.012	5.74
5.75	1.11	2.72	-.037	-.135	-.123	-.119	.011	-.122	.109	1.31	3.00	-.101	.020	.035	.000	.015	5.75
5.76	1.11	2.77	-.112	-.127	-.122	-.113	-.004	-.137	.112	1.31	3.17	-.093	.025	.039	.025	.013	5.76
5.77	1.10	2.61	-.106	-.109	-.113	-.109	-.016	-.121	.108	1.31	3.13	-.087	.032	.041	.038	.009	5.77
5.78	1.10	2.75	-.098	-.109	-.111	-.114	-.027	-.106	.104	1.32	2.90	-.084	.028	.043	.026	.000	5.78
5.79	1.10	2.68	-.101	-.121	-.110	-.119	-.044	-.101	.109	1.32	2.57	-.084	.028	.042	-.000	.010	5.79
5.80	1.10	2.39	-.098	-.118	-.078	-.114	-.030	-.107	.109	1.32	2.16	-.094	.018	.039	-.041	-.019	5.80
5.81	1.10	2.30	-.098	-.124	-.081	-.111	-.024	-.109	.109	1.32	1.76	-.104	.013	.033	-.082	-.021	5.81
5.82	1.10	2.30	-.130	-.120	-.120	-.106	.004	-.124	.111	1.32	1.69	-.143	-.012	.011	-.127	.015	5.82
5.83	1.10	2.13	-.159	-.153	-.142	-.115	.037	-.124	.108	1.32	1.26	-.122	-.001	.026	-.140	-.033	5.83
5.84	1.10	2.17	-.169	-.156	-.149	-.116	.090	-.138	.103	1.32	1.17	-.128	-.005	.026	-.163	-.035	5.84
5.85	1.10	2.21	-.172	-.151	-.152	-.117	.112	-.143	.106	1.32	1.19	-.129	-.004	.026	-.167	-.036	5.85
5.86	1.10	2.24	-.162	-.161	-.158	-.114	.115	-.147	.111	1.32	1.30	-.128	-.006	.024	-.157	-.034	5.86
5.87	1.10	2.22	-.175	-.159	-.167	-.124	.112	-.145	.108	1.32	1.47	-.128	-.001	.025	-.147	-.028	5.87
5.88	1.10	2.46	-.166	-.159	-.167	-.119	.110	-.146	.109	1.32	1.72	-.124	-.001	.026	-.140	-.023	5.88
5.89	1.10	2.42	-.163	-.164	-.160	-.122	.108	-.143	.111	1.32	2.02	-.122	.004	.026	-.126	-.013	5.89
5.90	1.10	2.55	-.160	-.161	-.163	-.125	.099	-.145	.113	1.32	2.22	-.120	.006	.027	-.111	.000	5.90
5.91	1.10	2.52	-.156	-.160	-.160	-.131	.100	-.148	.117	1.32	2.38	-.122	.009	.027	-.100	.008	5.91
5.92	1.10	2.66	-.160	-.159	-.154	-.137	.095	-.145	.114	1.32	2.47	-.123	.007	.029	-.087	.011	5.92
5.93	1.10	2.65	-.155	-.161	-.160	-.139	.087	-.020	-.061	1.32	2.49	-.126	.008	.029	-.082	.013	5.93
5.94	1.10	2.57	-.157	-.153	-.148	-.150	.083	.069	.117	1.32	2.45	-.127	.004	.029	-.087	.012	5.94
5.95	1.10	2.65	-.144	-.155	-.143	-.152	.075	-.143	.116	1.32	2.33	-.132	.002	.026	-.095	.011	5.95
5.96	1.09	2.61	-.147	-.148	-.138	-.159	.077	.276	.114	1.33	2.17	-.135	-.000	.022	-.103	.007	5.96
5.97	1.09	2.56	-.137	-.150	-.149	-.153	.065	-.138	.108	1.33	1.96	-.140	-.006	.021	-.113	.002	5.97
5.98	1.09	2.52	-.133	-.143	-.148	-.153	.057	-.147	.117	1.33	1.78	-.141	-.006	.017	-.121	-.007	5.98
5.99	1.09	2.40	-.131	-.138	-.147	-.149	.050	-.136	.114	1.33	1.69	-.140	-.008	.019	-.128	-.013	5.99
6.00	1.09	2.34	-.123	-.134	-.125	-.145	.041	-.131	.114	1.33	1.60	-.136	-.008	.019	-.133	-.021	6.00
6.01	1.09	2.36	-.121	-.124	-.125	-.136	.032	-.135	.113	1.33	1.55	-.133	-.004	.020	-.137	-.021	6.01
6.02	1.09	2.38	-.125	-.115	-.122	-.128	.017	-.123	.112	1.33	1.57	-.128	-.004	.023	-.136	-.021	6.02
6.03	1.09	2.49	-.114	-.120	-.118	-.127	.000	-.114	.111	1.33	1.66	-.124	-.002	.027	-.134	-.019	6.03
6.04	1.09	2.43	-.114	-.118	-.120	-.104	-.019	-.102	.102	1.33	1.80	-.120	.002	.0			

TABLE III. - Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α , deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t, sec
6.20	1.09	1.23	.067	.158	.192	.149	.652	.330	-.080	1.34	1.94	-.123	.005	.025	-.115	.001	6.20
6.21	1.09	1.66	.057	.137	.176	.226	.691	.307	-.095	1.34	2.02	-.123	.010	.026	-.114	.004	6.21
6.22	1.09	1.80	.045	.116	.179	.234	.714	.241	-.095	1.34	2.08	-.119	.009	.030	-.112	.003	6.22
6.23	1.09	2.01	.025	.095	.120	.220	.730	.188	-.093	1.34	2.15	-.116	.008	.035	-.112	.005	6.23
6.24	1.09	1.84	.013	.077	.071	.183	.709	.160	-.075	1.34	2.22	-.115	.006	.037	-.111	.005	6.24
6.25	1.09	1.65	.003	.071	.045	.126	.647	.144	-.063	1.34	2.20	-.114	.006	.037	-.108	.004	6.25
6.26	1.09	1.27	.000	.061	.053	.046	.503	.147	-.085	1.34	2.19	-.114	.006	.038	-.110	.004	6.26
6.27	1.09	1.18	.001	.054	.061	.023	.343	.167	-.061	1.34	2.15	-.113	.004	.040	-.108	.001	6.27
6.28	1.10	1.32	.006	.050	.075	.018	.238	.219	-.084	1.34	2.11	-.112	.009	.042	-.111	.002	6.28
6.29	1.10	1.32	-.003	.050	.058	.013	.181	.232	-.046	1.34	2.02	-.109	.007	.040	-.109	.001	6.29
6.30	1.10	1.74	-.006	.042	.047	.018	.147	.212	-.031	1.34	1.98	-.110	.007	.039	-.112	.003	6.30
6.31	1.10	1.81	-.016	.040	.027	.012	.164	.180	-.015	1.34	1.97	-.111	.007	.038	-.110	.001	6.31
6.32	1.10	1.52	-.016	.030	.012	.003	.161	.156	-.001	1.35	1.91	-.114	.007	.038	-.109	.003	6.32
6.33	1.10	1.27	-.017	.043	.002	-.008	.163	.151	-.003	1.35	1.91	-.113	.007	.037	-.108	.003	6.33
6.34	1.10	.93	-.009	.043	-.008	-.029	.158	.149	-.005	1.35	1.93	-.116	.007	.037	-.104	.003	6.34
6.35	1.10	.52	-.010	.037	.028	-.040	.159	.144	.005	1.35	1.95	-.117	.007	.033	-.104	.004	6.35
6.36	1.10	.10	-.001	.045	.028	-.041	.162	.142	.005	1.35	1.96	-.117	.007	.034	-.100	.006	6.36
6.37	1.10	.03	-.001	.040	.044	-.040	.162	.141	-.033	1.35	2.01	-.119	.007	.032	-.099	.007	6.37
6.38	1.10	-.14	.005	.055	.076	.041	.159	.137	-.075	1.35	2.03	-.121	.009	.030	-.097	.007	6.38
6.39	1.10	-.20	.026	.055	.098	-.043	.158	.136	-.103	1.35	2.04	-.119	.007	.028	-.095	.008	6.39
6.40	1.11	-.37	.014	.074	.101	-.040	.164	.132	-.117	1.35	2.08	-.122	.007	.026	-.095	.009	6.40
6.41	1.11	-.11	.019	.080	.102	-.038	.164	.138	-.119	1.35	2.11	-.120	.005	.028	-.092	.008	6.41
6.42	1.11	.04	.017	.079	.095	-.036	.164	.139	-.116	1.35	2.12	-.120	.004	.026	-.091	.007	6.42
6.43	1.11	.51	.020	.075	.106	-.032	.167	.142	-.060	1.35	2.13	-.119	.005	.026	-.090	.007	6.43
6.44	1.11	.85	.021	.069	.093	-.035	.167	.141	-.109	1.35	2.10	-.119	.005	.028	-.090	.008	6.44
6.45	1.11	1.25	.021	.067	.091	-.038	.167	.144	-.109	1.35	2.06	-.118	.003	.028	-.089	.007	6.45
6.46	1.11	1.34	.016	.069	.068	-.042	.169	.142	-.102	1.35	2.07	-.118	.004	.032	-.088	.008	6.46
6.47	1.11	1.53	.012	.058	.066	-.045	.173	.144	-.087	1.35	2.03	-.118	.004	.034	-.088	.006	6.47
6.48	1.11	1.54	.019	.068	.041	-.044	.171	.142	-.084	1.35	2.04	-.116	.003	.037	-.087	.006	6.48
6.49	1.11	1.42	.017	.059	.028	-.045	.169	.140	-.084	1.35	2.03	-.116	.003	.039	-.087	.007	6.49
6.50	1.11	1.19	.021	.054	.032	-.056	.169	.138	-.081	1.36	2.01	-.115	.004	.039	-.088	.007	6.50
6.51	1.11	.85	.013	.073	.051	-.060	.166	.138	-.086	1.36	2.02	-.115	.003	.040	-.086	.007	6.51
6.52	1.12	.48	.009	.083	.045	-.061	.163	.137	-.095	1.36	2.04	-.115	.003	.041	-.090	.008	6.52
6.53	1.12	.34	.015	.089	.061	-.061	.166	.140	-.101	1.36	2.06	-.113	.002	.042	-.091	.008	6.53
6.54	1.12	.07	.014	.087	.058	-.061	.163	.132	-.112	1.36	2.07	-.112	.004	.043	-.091	.009	6.54
6.55	1.12	.03	.013	.084	.059	-.062	.160	.131	-.112	1.36	2.10	-.109	.005	.043	-.091	.009	6.55
6.56	1.12	.23	.009	.082	.066	-.065	.162	.133	-.045	1.36	2.10	-.107	.005	.043	-.090	.008	6.56
6.57	1.12	.68	.018	.076	.086	-.062	.163	.134	-.116	1.36	2.11	-.105	.007	.045	-.085	.009	6.57
6.58	1.12	1.36	.037	.076	.075	-.056	.157	.134	-.103	1.36	2.11	-.106	.007	.044	-.084	.008	6.58
6.59	1.12	1.75	.022	.065	.069	-.052	.153	.144	-.085	1.36	2.12	-.106	.009	.043	-.082	.010	6.59
6.60	1.12	2.49	.003	.046	.026	-.051	.157	.139	-.075	1.36	2.10	-.106	.009	.043	-.079	.010	6.60
6.61	1.12	2.98	-.005	.046	.008	-.049	.156	.145	-.042	1.36	2.09	-.112	.008	.038	-.079	.011	6.61
6.62	1.12	2.96	.002	.050	.016	-.048	.151	.145	-.054	1.36	2.09	-.114	.007	.036	-.079	.011	6.62
6.63	1.12	2.68	.008	.048	.010	-.049	.152	.148	-.058	1.36	2.08	-.116	.007	.033	-.082	.011	6.63
6.64	1.12	2.29	.007	.049	.001	-.054	.150	.150	-.061	1.36	2.09	-.118	.004	.033	-.085	.013	6.64
6.65	1.12	1.74	.008	.049	.000	-.053	.153	.139	-.058	1.36	2.09	-.118	.004	.033	-.088	.013	6.65
6.66	1.12	1.11	-.003	.041	-.004	-.056	.150	.142	-.063	1.36	2.09	-.117	.004	.033	-.085	.013	6.66
6.67	1.13	.23	-.003	.049	.019	-.060	.151	.138	-.067	1.36	2.11	-.119	.002	.034	-.092	.014	6.67
6.68	1.13	-.20	-.004	.042	.023	-.062	.151	.138	-.072	1.37	2.11	-.118	.001	.034	-.095	.014	6.68
6.69	1.13	-.61	.004	.043	.025	-.063	.159	.132	-.077	1.37	2.13	-.119	.000	.034	-.102	.014	6.69
6.70	1.13	-.91	.007	.056	.043	-.060	.153	.136	-.088	1.37	2.12	-.119	-.001	.037	-.108	.015	6.70
6.71	1.13	-.90	.015	.060	.050	-.064	.156	.124	-.089	1.37	2.13	-.119	.001	.037	-.119	.017	6.71
6.72	1.13	-.65	.017	.058	.050	-.061	.153	.134	-.096	1.37	2.11	-.118	.002	.037	-.132	.017	6.72
6.73	1.13	-.26	-.014	.051	.047	-.061	.151	.133	-.089	1.37	2.12	-.116	.002	.039	-.141	.017	6.73
6.74	1.13	.22	.012	.050	.042	-.059	.153	.137	-.086	1.37	2.11	-.117	.001	.039	-.150	.015	6.74
6.75	1.13	.56	.020	.057	.037	-.054	.150	.141	-.085	1.37	2.10	-.119	.001	.041	-.158	.015	6.75
6.76	1.13	1.12	.019	.057	.041	-.054	.155	.137	-.078	1.37	2.12	-.121	.000	.039	-.166	.014	6.76
6.77	1.13	1.49	.013	.058	.020	-.058	.152	.140	-.073	1.37	2.08	-.123	-.000	.040	-.175	.015	6.77
6.78	1.13	1.85	.016	.048	.012	-.052	.146	.142	-.063	1.37	2.08	-.122	-.001	.039	-.188	.015	6.78
6.79	1.13	1.87	.004	.050	.005	-.043	.145	.143	-.064	1.37	2.08	-.124	-.001	.039	-.198	.015	6.79
6.80	1.13	1.72	-.004	.058	.005	-.049	.144	.135	-.068	1.37	2.09	-.122	-.001	.037	-.205	.016	6.80
6.81	1.13	1.34	-.003	.048	.003	-.050	.143	.142	-.074	1.37	2.08	-.122	-.002	.038	-.210	.016	6.81
6.82	1.13	1.31	-.001	.052	.000	-.049	.143	.141	-.076	1.37	2.09	-.122	-.004	.039	-.210	.019	6.82
6.83	1.13	1.00	.005	.054	.004	-.052	.147	.136	-.081	1.37	2.10	-.122	-.002	.039	-.211	.019	6.83
6.84	1.13	.66	.002	.045	.003	-.056	.138	.138	-.084	1.37	2.09	-.124	-.002	.038	-.212	.020	6.84
6.85	1.13	.27	.001	.052	.003	-.057	.138	.139	-.083	1.37	2.11	-.124	-.005	.036	-.215	.022	6.85
6.86	1.13	.22	.002	.055	-.002	-.055	.143	.131	-.096	1.37	2.08	-.123	-.004	.035	-.215	.024	6.86
6.87	1.13	-.09	-.006	.047	.003	-.055	.144	.132	-.104	1.37	2.08	-.128	-.005	.034	-.215	.024	6.87
6.88	1.14	-.20	-.006	.054	-.009	-.049	.145	.128	-.101	1.37	2.12	-.129	-.005	.035	-.217	.023	6.88
6.89	1.14	.03	.003	.060	-.002	-.054	.147	.134	-.109	1.37	2.14	-.127	-.005	.035	-.216	.023	6.89
6.90	1.14	.16	-.004	.069	.021	-.050	.151	.132	-.104	1.38	2.15	-.129	-.005	.036	-.216	.023	6.90
6.91	1.14	.46	-.001	.076	.007	-.051	.153	.136	-.068	1.38	2.13	-.130	-.004	.033	-.217	.025	6.91
6.92	1.14	.70	.001	.069	.018	-.048	.156	.139	-.093	1.38	2.14	-.131	-.004	.034	-.218	.025	6.92
6.93	1.14	1.01	-.011	.075	.014	-.053	.155	.138	-.087	1.38	2.13	-.127	-.002	.036	-.221	.025	6.93
6.94	1.14	1.15	-.018	.065	.006	-.052	.160	.150	-.082	1.38	2.15	-.123	.000	.038	-.227	.025	6.94

TABLE III.- Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α , deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t, sec
7.00	1.14	.93	-.015	.050	.022	-.045	.155	.133	-.083	1.38	2.13	-.118	.002	.040	-.194	.020	7.00
7.01	1.14	.60	-.012	.051	.007	-.046	.151	.134	-.081	1.38	2.12	-.118	.006	.043	-.202	.022	7.01
7.02	1.14	.54	-.016	.062	.003	-.045	.152	.130	-.091	1.38	2.11	-.119	.005	.042	-.210	.022	7.02
7.03	1.14	.32	-.015	.053	.012	-.042	.150	.130	-.094	1.38	2.15	-.122	.001	.042	-.218	.023	7.03
7.04	1.14	.29	-.015	.046	.006	-.047	.150	.131	-.096	1.38	2.13	-.123	.000	.041	-.229	.023	7.04
7.05	1.14	.19	-.015	.050	.009	-.048	.151	.128	-.093	1.38	2.15	-.122	.001	.041	-.242	.026	7.05
7.06	1.14	.19	-.013	.043	.017	-.045	.148	.121	-.094	1.38	2.16	-.122	-.001	.041	-.238	.026	7.06
7.07	1.14	.21	-.027	.045	.002	-.044	.150	.126	-.095	1.38	2.14	-.120	.000	.044	-.225	.026	7.07
7.08	1.14	.36	-.007	.037	.001	-.041	.151	.127	-.093	1.38	2.13	-.117	.002	.045	-.208	.027	7.08
7.09	1.14	.63	-.024	.031	.003	-.041	.149	.134	-.093	1.38	2.13	-.120	.002	.045	-.203	.026	7.09
7.10	1.14	.68	-.014	.042	.016	-.037	.151	.137	-.090	1.38	2.13	-.119	.002	.043	-.209	.026	7.10
7.11	1.14	.77	-.010	.041	.005	-.037	.151	.133	-.086	1.38	2.12	-.121	.003	.040	-.220	.028	7.11
7.12	1.15	.88	-.017	.043	.001	-.036	.149	.135	-.083	1.38	2.12	-.119	.004	.041	-.221	.027	7.12
7.13	1.15	.94	-.009	.040	.012	-.042	.151	.138	-.088	1.38	2.13	-.119	.004	.041	-.206	.028	7.13
7.14	1.15	1.02	-.010	.050	.001	-.039	.146	.136	-.082	1.38	2.13	-.119	.004	.041	-.211	.028	7.14
7.15	1.15	.88	-.016	.056	.008	-.037	.146	.139	-.087	1.38	2.14	-.119	.004	.041	-.225	.027	7.15
7.16	1.15	1.05	-.004	.049	.012	-.038	.145	.135	-.083	1.38	2.12	-.121	.004	.040	-.228	.028	7.16
7.17	1.15	.75	-.007	.045	.003	-.032	.146	.137	-.082	1.38	2.13	-.121	.003	.040	-.232	.028	7.17
7.18	1.15	.87	-.012	.049	.009	-.033	.146	.137	-.078	1.38	2.13	-.122	.003	.040	-.237	.028	7.18
7.19	1.15	.67	-.009	.048	-.008	-.033	.147	.131	-.094	1.38	2.16	-.125	.000	.040	-.242	.027	7.19
7.20	1.15	.67	-.010	.045	-.007	-.029	.148	.129	-.091	1.39	2.15	-.126	-.001	.038	-.246	.026	7.20
7.21	1.15	.61	-.009	.049	-.003	-.036	.146	.124	-.088	1.39	2.15	-.128	-.001	.037	-.249	.028	7.21
7.22	1.15	.54	-.007	.042	.008	-.032	.149	.134	-.082	1.39	2.17	-.129	-.002	.036	-.256	.030	7.22
7.23	1.15	.66	-.016	.057	.008	-.030	.146	.131	-.084	1.39	2.16	-.129	-.008	.033	-.263	.030	7.23
7.24	1.15	.60	-.016	.052	.003	-.033	.149	.127	-.085	1.39	2.16	-.128	-.010	.030	-.268	.030	7.24
7.25	1.15	.65	-.006	.047	.002	-.029	.150	.131	-.086	1.39	2.19	-.126	-.007	.030	-.267	.029	7.25
7.26	1.15	.72	-.010	.046	-.010	-.028	.146	.128	-.084	1.39	2.17	-.124	-.003	.030	-.266	.028	7.26
7.27	1.16	.75	-.014	.052	.007	-.036	.149	.129	-.082	1.39	2.17	-.123	-.002	.029	-.264	.030	7.27
7.28	1.16	.78	-.009	.048	.003	-.027	.147	.132	-.081	1.39	2.19	-.123	-.004	.030	-.262	.029	7.28
7.29	1.16	.84	-.009	.050	.002	-.030	.144	.129	-.082	1.39	2.19	-.122	-.006	.029	-.257	.030	7.29
7.30	1.16	.91	-.007	.049	.006	-.025	.151	.133	-.082	1.39	2.18	-.124	-.007	.029	-.254	.032	7.30
7.31	1.16	.96	-.007	.051	.006	-.027	.143	.133	-.083	1.39	2.16	-.125	-.004	.027	-.255	.034	7.31
7.32	1.16	.92	-.012	.051	.004	-.030	.147	.134	-.082	1.39	2.20	-.127	-.006	.027	-.254	.034	7.32
7.33	1.16	.97	-.014	.053	.005	-.021	.143	.133	-.077	1.39	2.17	-.132	-.009	.027	-.252	.035	7.33
7.34	1.16	.86	-.013	.048	.009	-.024	.145	.130	-.078	1.39	2.15	-.135	-.008	.026	-.255	.034	7.34
7.35	1.16	.84	-.016	.043	-.004	-.023	.139	.127	-.078	1.39	2.15	-.135	-.004	.027	-.244	.034	7.35
7.36	1.16	.79	-.013	.050	.003	-.022	.144	.130	-.075	1.39	2.14	-.131	-.001	.030	-.232	.033	7.36
7.37	1.16	.70	-.014	.046	.007	-.026	.145	.132	-.082	1.39	2.10	-.120	.005	.024	-.195	.031	7.37
7.38	1.16	.73	-.008	.045	.013	-.031	.144	.130	-.081	1.39	2.10	-.121	.000	.035	-.206	.032	7.38
7.39	1.16	.59	-.019	.051	.003	-.034	.139	.130	-.076	1.39	2.25	-.140	-.021	.024	-.243	.027	7.39
7.40	1.16	.73	-.008	.054	.001	-.038	.141	.128	-.085	1.39	2.54	-.160	-.042	.001	-.259	.009	7.40
7.41	1.17	.77	-.015	.047	.015	-.041	.140	.126	-.088	1.39	2.91	-.168	-.062	-.013	-.262	-.023	7.41
7.42	1.17	.84	-.014	.050	.014	-.046	.141	.135	-.090	1.39	3.21	-.173	-.078	-.025	-.257	-.075	7.42
7.43	1.17	.87	-.011	.047	.007	-.033	.142	.129	-.086	1.39	3.35	-.178	-.090	-.028	-.240	-.058	7.43
7.44	1.17	.94	-.008	.047	.008	-.032	.140	.130	-.089	1.39	3.20	-.184	-.098	.000	-.235	-.045	7.44
7.45	1.17	.90	-.009	.054	.010	-.033	.140	.135	-.082	1.39	2.66	-.194	-.111	-.023	-.242	-.128	7.45
7.46	1.17	.97	-.008	.058	.011	-.035	.139	.133	-.084	1.39	2.05	-.207	-.126	-.052	-.229	-.187	7.46
7.47	1.17	.97	-.010	.057	.006	-.028	.138	.133	-.084	1.39	1.83	-.220	-.143	-.084	-.207	-.234	7.47
7.48	1.17	1.08	-.007	.047	.007	-.033	.140	.132	-.085	1.39	1.09	-.234	-.154	-.115	-.167	-.267	7.48
7.49	1.17	1.00	-.010	.045	.008	-.030	.139	.130	-.087	1.40	.94	-.236	-.159	-.128	-.045	-.272	7.49
7.50	1.17	.91	-.014	.056	.004	-.028	.141	.129	-.083	1.40	1.06	-.231	-.160	-.134	-.421	-.273	7.50
7.51	1.17	.98	-.010	.049	.015	-.031	.140	.134	-.082	1.39	1.60	-.220	-.157	-.140	-.307	-.274	7.51
7.52	1.17	.81	-.009	.050	.011	-.033	.141	.134	-.082	1.39	2.44	-.203	-.148	-.142	-.368	-.274	7.52
7.53	1.17	.81	-.021	.060	.010	-.029	.138	.134	-.084	1.39	3.56	-.177	-.137	-.139	-.308	-.262	7.53
7.54	1.17	.79	-.016	.051	.012	-.025	.138	.136	-.084	1.39	4.58	-.150	-.119	-.130	-.257	-.246	7.54
7.55	1.17	.81	-.013	.059	.020	-.034	.139	.132	-.086	1.39	5.58	-.128	-.103	-.112	-.211	-.224	7.55
7.56	1.17	.80	-.013	.051	.012	-.033	.137	.129	-.090	1.39	6.24	-.111	-.089	-.097	-.167	-.202	7.56
7.57	1.17	.72	-.018	.057	.011	-.032	.138	.139	-.085	1.39	6.65	-.107	-.085	-.087	-.135	-.185	7.57
7.58	1.18	.91	-.018	.064	.009	-.033	.136	.132	-.090	1.39	6.65	-.115	-.086	-.089	-.120	-.181	7.58
7.59	1.18	.87	-.004	.053	.013	-.034	.141	.132	-.088	1.39	6.39	-.128	-.095	-.094	-.119	-.184	7.59
7.60	1.18	.80	-.022	.053	.010	-.033	.138	.135	-.089	1.39	5.74	-.141	-.108	-.102	-.137	-.196	7.60
7.61	1.18	.85	-.013	.058	.018	-.033	.139	.130	-.093	1.38	4.97	-.156	-.121	-.115	-.165	-.214	7.61
7.62	1.18	.85	-.011	.053	.020	-.027	.143	.130	-.094	1.38	4.15	-.171	-.135	-.131	-.200	-.238	7.62
7.63	1.18	.89	-.018	.057	.015	-.033	.132	.132	-.093	1.38	3.52	-.186	-.147	-.149	-.233	-.260	7.63
7.64	1.18	.84	-.004	.054	.013	-.036	.134	.132	-.092	1.38	2.99	-.197	-.156	-.159	-.258	-.271	7.64
7.65	1.18	.79	-.021	.053	.019	-.031	.138	.131	-.092	1.38	2.74	-.202	-.162	-.167	-.273	-.281	7.65
7.66	1.18	.89	-.009	.057	.018	-.034	.134	.131	-.096	1.38	2.74	-.204	-.163	-.169	-.261	-.285	7.66
7.67	1.18	.80	-.012	.058	.016	-.030	.134	.130	-.092	1.38	3.01	-.197	-.159	-.168	-.278	-.280	7.67
7.68	1.18	.82	-.006	.052	.015	-.030	.133	.130	-.098	1.38	3.48	-.186	-.151	-.163	-.269	-.276	7.68
7.69	1.18	.91	-.001	.053	.017	-.031	.135	.129	-.092	1.38	4.06	-.174	-.140	-.152	-.254	-.268	7.69
7.70	1.18	.99	-.007	.051	.011	-.037	.134	.128	-.091	1.38	4.65	-.161	-.131	-.139	-.233	-.256	7.70
7.71	1.18	.83	-.013	.050	.009	-.039	.137	.131	-.092	1.37	5.16	-.150	-.121	-.128	-.206	-.241	7.71
7.72	1.19	.78	-.009	.051	.012	-.036	.133	.131	-.092	1.37	5.49	-.142	-.115	-.119	-.186	-.230	7.72
7.73	1.19	.89	-.007	.053	.008	-.031	.135	.130	-.092	1.37	5.66	-.138	-.113	-.114	-.173	-.223	7.73
7.74	1.19	.89	-.005	.054	.012	-.036	.134	.									

TABLE III.- Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α, deg	$C_{p,b}$	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	M	α, deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t, sec
7.80	1.19	.89	-.001	.061	.015	-.024	.135	.139	-.095	1.37	3.65	-.188	-.151	-.153	-.256	-.282	7.80
7.81	1.19	1.09	-.003	.067	.019	-.029	.133	.133	-.092	1.36	3.91	-.190	-.153	-.159	-.266	-.269	7.81
7.82	1.19	.98	-.001	.056	-.122	-.029	.138	.135	-.091	1.36	3.53	-.189	-.154	-.162	-.269	-.292	7.82
7.83	1.20	.98	-.002	.061	.024	-.028	.136	.131	-.093	1.36	3.68	-.187	-.151	-.159	-.267	-.290	7.83
7.84	1.20	.96	-.006	.059	.030	-.030	.135	.133	-.089	1.36	3.97	-.181	-.148	-.156	-.263	-.284	7.84
7.85	1.20	.99	-.001	.050	.023	-.031	.134	.130	-.093	1.36	4.28	-.178	-.143	-.151	-.253	-.277	7.85
7.86	1.20	.96	-.004	.090	.022	-.033	.133	.128	-.027	1.36	4.58	-.172	-.140	-.143	-.239	-.266	7.86
7.87	1.20	.95	-.006	.052	.026	-.024	.139	.128	-.091	1.36	4.82	-.167	-.134	-.137	-.220	-.259	7.87
7.88	1.20	.91	-.002	.055	.028	-.029	.131	.130	-.091	1.36	5.00	-.164	-.131	-.133	-.209	-.253	7.88
7.89	1.20	.93	-.006	.059	.019	-.027	.135	.128	-.093	1.36	5.06	-.163	-.130	-.131	-.204	-.249	7.89
7.90	1.20	.92	-.002	.053	.015	-.030	.136	.133	-.090	1.36	5.02	-.163	-.131	-.132	-.203	-.247	7.90
7.91	1.20	.96	-.006	.049	.015	-.036	.129	.129	-.094	1.35	4.88	-.168	-.133	-.135	-.208	-.250	7.91
7.92	1.20	.85	-.001	.053	.011	-.027	.135	.131	-.090	1.35	4.70	-.171	-.137	-.138	-.216	-.255	7.92
7.93	1.20	.78	-.001	.051	.015	-.035	.135	.127	-.093	1.35	4.48	-.177	-.141	-.140	-.226	-.263	7.93
7.94	1.21	.94	-.009	.064	.012	-.031	.132	.275	-.089	1.35	4.28	-.181	-.145	-.145	-.239	-.272	7.94
7.95	1.21	.90	-.006	.062	.015	-.034	.134	.129	-.088	1.35	4.11	-.182	-.140	-.151	-.250	-.278	7.95
7.96	1.21	.85	-.004	.054	.022	-.027	.132	.127	-.087	1.35	3.99	-.184	-.150	-.148	-.262	-.285	7.96
7.97	1.21	.89	-.007	.058	.023	-.038	.136	.128	-.090	1.35	3.94	-.186	-.152	-.155	-.261	-.288	7.97
7.98	1.21	.93	-.006	.054	.015	-.033	.135	.128	-.092	1.35	3.97	-.185	-.152	-.156	-.264	-.289	7.98
7.99	1.21	.98	-.002	.051	.017	-.030	.136	.126	-.090	1.35	4.05	-.184	-.151	-.155	-.264	-.289	7.99
8.00	1.21	.99	-.003	.043	.022	-.033	.136	.129	-.094	1.35	4.16	-.180	-.148	-.154	-.263	-.286	8.00
8.01	1.21	.98	.007	.052	.013	-.030	.137	.130	-.096	1.34	4.33	-.177	-.143	-.152	-.257	-.293	8.01
8.02	1.21	.86	.006	.047	.023	-.031	.138	.129	-.094	1.34	4.50	-.175	-.142	-.147	-.247	-.278	8.02
8.03	1.21	1.09	.006	.051	.022	-.033	.136	.130	-.092	1.34	4.61	-.174	-.140	-.144	-.242	-.275	8.03
8.04	1.21	1.06	.002	.044	.014	-.028	.140	.127	-.029	1.34	4.68	-.173	-.140	-.142	-.238	-.273	8.04
8.05	1.22	1.00	.000	.048	.021	-.028	.137	.126	-.094	1.34	4.73	-.173	-.141	-.142	-.233	-.271	8.05
8.06	1.22	1.00	-.002	.046	.009	-.027	.136	.127	-.093	1.34	4.68	-.175	-.141	-.143	-.234	-.271	8.06
8.07	1.22	1.00	-.001	.046	.019	-.030	.136	.127	-.094	1.34	4.63	-.177	-.144	-.144	-.236	-.273	8.07
8.08	1.22	1.06	-.001	.044	.008	-.028	.135	.243	-.092	1.34	4.56	-.179	-.146	-.146	-.239	-.275	8.08
8.09	1.22	.94	-.002	.044	.013	-.025	.136	.127	-.093	1.34	4.45	-.181	-.148	-.147	-.246	-.278	8.09
8.10	1.22	.98	.002	.039	.007	-.025	.138	.126	-.095	1.34	4.36	-.185	-.151	-.151	-.248	-.283	8.10
8.11	1.22	.81	-.003	.036	.017	-.029	.141	.126	-.098	1.33	4.24	-.187	-.154	-.154	-.256	-.285	8.11
8.12	1.22	.55	-.005	.039	.009	-.030	.142	.234	-.097	1.33	4.17	-.188	-.154	-.155	-.262	-.288	8.12
8.13	1.22	-.02	.000	.032	.004	-.025	.142	.119	-.102	1.33	4.16	-.190	-.154	-.157	-.265	-.290	8.13
8.14	1.22	-.61	-.016	.033	.003	-.020	.142	.116	-.101	1.33	4.17	-.188	-.154	-.157	-.267	-.289	8.14
8.15	1.22	-1.10	-.018	.034	-.003	-.016	.139	.110	-.104	1.33	4.18	-.189	-.153	-.157	-.269	-.289	8.15
8.16	1.23	-1.36	-.025	.036	-.005	-.001	.139	.106	-.107	1.33	4.25	-.189	-.153	-.157	-.266	-.289	8.16
8.17	1.23	-1.36	-.013	.038	-.006	.004	.138	.106	-.108	1.33	4.33	-.188	-.151	-.156	-.263	-.287	8.17
8.18	1.23	-.97	-.016	.038	-.002	.006	.142	.105	-.103	1.33	4.39	-.184	-.149	-.154	-.259	-.286	8.18
8.19	1.23	-.60	-.013	.041	.003	-.004	.142	.109	-.101	1.33	4.52	-.184	-.148	-.152	-.256	-.285	8.19
8.20	1.23	.15	-.011	.057	.017	-.018	.142	.112	-.096	1.33	4.54	-.184	-.148	-.150	-.255	-.283	8.20
8.21	1.23	.96	.008	.041	.022	-.018	.145	.117	-.089	1.32	4.56	-.183	-.149	-.149	-.251	-.283	8.21
8.22	1.23	1.58	.001	.043	.023	-.018	.149	.120	-.090	1.32	4.55	-.182	-.149	-.150	-.253	-.282	8.22
8.23	1.23	2.06	.005	.043	.029	-.016	.150	.122	-.088	1.32	4.52	-.183	-.150	-.152	-.254	-.282	8.23
8.24	1.23	2.40	.003	.044	.021	-.013	.153	.126	-.082	1.32	4.48	-.186	-.150	-.153	-.256	-.284	8.24
8.25	1.23	2.47	.006	.039	.020	-.015	.153	.125	-.086	1.32	4.45	-.186	-.152	-.155	-.259	-.286	8.25
8.26	1.23	7.41	.007	.041	.015	-.015	.149	.124	-.086	1.32	4.38	-.190	-.154	-.156	-.264	-.289	8.26
8.27	1.23	2.14	.002	.038	.018	-.022	.149	.124	-.081	1.32	4.32	-.194	-.155	-.157	-.268	-.292	8.27
8.28	1.23	1.71	.001	.044	.013	-.016	.148	.119	-.084	1.32	4.27	-.194	-.156	-.158	-.270	-.294	8.28
8.29	1.23	1.18	-.002	.038	.015	-.022	.145	.120	-.086	1.32	4.24	-.193	-.158	-.158	-.270	-.296	8.29
8.30	1.23	.52	-.002	.141	.009	-.022	.141	.243	-.087	1.32	4.24	-.192	-.157	-.158	-.272	-.297	8.30
8.31	1.23	.18	-.004	.035	.016	-.020	.139	.110	-.087	1.31	4.24	-.194	-.157	-.156	-.275	-.296	8.31
8.32	1.23	-.04	-.005	.035	.016	-.023	.138	.112	-.094	1.31	4.28	-.193	-.158	-.157	-.272	-.296	8.32
8.33	1.23	-.18	-.017	.036	.017	-.027	.133	.110	-.062	1.31	4.34	-.194	-.157	-.158	-.272	-.297	8.33
8.34	1.23	-.47	-.012	.048	.009	-.022	.136	.107	-.089	1.31	4.38	-.192	-.156	-.158	-.268	-.293	8.34
8.35	1.23	-.23	-.010	.042	.018	-.023	.134	.111	-.092	1.31	4.41	-.193	-.155	-.156	-.269	-.293	8.35
8.36	1.24	.08	-.019	.044	.020	-.021	.138	.109	-.097	1.31	4.45	-.189	-.154	-.159	-.266	-.293	8.36
8.37	1.24	.42	-.014	.130	.027	-.020	.140	.112	-.091	1.31	4.46	-.191	-.154	-.158	-.268	-.293	8.37
8.38	1.24	.82	-.011	.047	.019	-.016	.140	.116	-.092	1.31	4.47	-.190	-.156	-.157	-.270	-.294	8.38
8.39	1.24	1.07	-.005	.046	.029	-.012	.144	.112	-.089	1.31	4.44	-.190	-.155	-.156	-.271	-.296	8.39
8.40	1.24	1.51	.003	.051	.030	-.010	.140	.116	-.082	1.31	4.45	-.190	-.157	-.157	-.272	-.298	8.40
8.41	1.24	1.78	.002	.041	.030	-.014	.140	.119	-.086	1.30	4.33	-.194	-.162	-.162	-.274	-.302	8.43
8.42	1.24	1.76	.012	.042	.024	-.012	.142	.119	-.075	1.30	4.32	-.195	-.163	-.161	-.278	-.304	8.44
8.43	1.24	1.76	-.005	.039	.019	-.011	.140	.119	-.080	1.30	4.30	-.196	-.165	-.160	-.279	-.304	8.45
8.44	1.24	1.44	-.005	.043	.026	-.011	.141	.117	-.083	1.30	4.29	-.195	-.164	-.161	-.281	-.306	8.46
8.45	1.24	1.23	-.005	.039	.050	-.011	.140	.115	-.080	1.30	4.28	-.194	-.164	-.163	-.280	-.305	8.47
8.46	1.24	.82	.005	.032	.151	-.010	.138	.115	-.081	1.30	4.29	-.195	-.164	-.161	-.281	-.306	8.48
8.47	1.24	.62	-.002	.039	.025	-.011	.136	.117	-.083	1.30	4.31	-.195	-.161	-.164	-.279	-.305	8.48
8.48	1.24	.36	.002	.036	.019	-.013	.136	.113	-.080	1.30	4.33	-.195	-.161	-.165	-.280	-.303	8.49
8.49	1.24	.32	-.005	.042	.016	-.017	.137	.111	-.003	1.30	4.35	-.195	-.162	-.164	-.278	-.306	8.50
8.51	1.25	.21	-.001	.036	.022	-.018	.128	.113	-.078	1.29	4.31	-.199	-.159	-.168	-.283	-.303	8.51
8.52	1.25	.17	.005	.041	.028	-.018	.136	.113	-.081	1.29	4.32	-.199	-.159	-.167	-.279	-.303	8.52
8.53	1.25	.63	.008	.038	.032	-.019	.136	.113	-.077	1.29	4.36	-.199	-.159	-.167	-.281	-.305	8.53
8.54	1.25	.51	.006	.035	.035	-.012	.137	.113									

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α , deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t, sec
8.60	1.25	1.49	.002	.034	.029	-.010	.136	.124	-.078	1.29	4.27	-.203	-.163	-.167	-.292	-.308	8.60
8.61	1.25	1.31	-.001	.031	.022	-.008	.132	.122	-.080	1.29	4.28	-.203	-.164	-.170	-.294	-.308	8.61
8.62	1.26	1.31	-.008	.040	.024	-.010	.138	.120	-.077	1.28	4.28	-.205	-.162	-.168	-.295	-.308	8.62
8.63	1.26	.82	-.006	.038	.028	-.014	.134	.115	-.079	1.28	4.28	-.205	-.160	-.169	-.294	-.310	8.63
8.64	1.26	.74	-.004	.045	.024	-.014	.137	.121	-.074	1.28	4.28	-.205	-.162	-.169	-.296	-.309	8.64
8.65	1.26	.71	.001	.039	.027	-.016	.133	.121	-.073	1.28	4.29	-.206	-.163	-.167	-.297	-.309	8.65
8.66	1.26	.53	-.010	.050	.013	-.017	.130	.118	-.074	1.28	4.29	-.206	-.163	-.168	-.299	-.310	8.66
8.67	1.26	.48	-.010	.042	.019	-.013	.132	.123	-.048	1.28	4.27	-.204	-.165	-.169	-.302	-.310	8.67
8.68	1.26	.44	-.016	.038	.017	-.020	.132	.119	-.074	1.28	4.26	-.205	-.165	-.169	-.305	-.311	8.68
8.69	1.26	.59	-.014	.042	.016	-.015	.134	.118	-.078	1.28	4.29	-.207	-.166	-.168	-.305	-.312	8.69
8.70	1.26	.59	.002	.032	.012	-.015	.133	.118	-.080	1.28	4.28	-.206	-.165	-.168	-.304	-.313	8.70
8.71	1.26	.63	-.008	.035	.017	-.013	.135	.119	-.078	1.28	4.26	-.208	-.165	-.171	-.307	-.312	8.71
8.72	1.26	.83	-.009	.027	.011	-.012	.135	.120	-.075	1.28	4.26	-.209	-.164	-.172	-.306	-.312	8.72
8.73	1.26	.90	.002	.027	.009	-.013	.133	.117	.059	1.27	4.25	-.209	-.168	-.173	-.306	-.313	8.73
8.74	1.27	.82	.000	.024	.007	-.011	.138	.121	-.074	1.27	4.24	-.210	-.167	-.172	-.305	-.314	8.74
8.75	1.27	.52	.000	.025	.017	-.011	.136	.119	-.073	1.27	4.24	-.209	-.166	-.172	-.304	-.315	8.75
8.76	1.27	1.31	.004	.028	.007	-.011	.136	.121	-.067	1.27	4.24	-.212	-.167	-.174	-.305	-.315	8.76
8.77	1.27	1.17	.002	.019	.002	-.012	.136	.121	-.074	1.27	4.24	-.210	-.168	-.173	-.303	-.317	8.77
8.78	1.27	1.16	.010	.024	.010	-.008	.137	.120	-.076	1.27	4.27	-.216	-.168	-.172	-.302	-.318	8.78
8.79	1.27	1.09	.007	.026	.014	-.012	.138	.199	-.073	1.27	4.26	-.213	-.170	-.175	-.298	-.317	8.79
8.80	1.27	.97	-.007	.025	.019	-.010	.134	.120	-.072	1.27	4.25	-.214	-.171	-.169	-.303	-.318	8.80
8.81	1.27	.94	.004	.027	.005	-.013	.135	.122	-.072	1.27	4.28	-.212	-.166	-.169	-.304	-.316	8.81
8.82	1.27	.83	-.007	.026	.003	-.011	.130	.121	-.070	1.27	4.29	-.212	-.163	-.168	-.305	-.315	8.82
8.83	1.27	.77	-.010	.025	.015	-.012	.132	.119	-.074	1.26	4.30	-.212	-.165	-.167	-.304	-.315	8.83
8.84	1.27	.68	-.001	.024	.019	-.014	.132	.119	-.074	1.26	4.30	-.213	-.163	-.167	-.306	-.314	8.84
8.85	1.27	.58	-.013	.028	.007	-.013	.132	.117	-.071	1.26	4.32	-.211	-.163	-.166	-.307	-.314	8.85
8.86	1.28	.78	-.010	.032	.010	-.013	.134	.120	-.074	1.26	4.32	-.211	-.164	-.167	-.305	-.311	8.86
8.87	1.28	.77	-.008	.168	.010	-.013	.133	.119	-.075	1.26	4.34	-.210	-.161	-.165	-.307	-.309	8.87
8.88	1.28	.75	-.013	.032	.013	-.013	.133	.118	-.076	1.26	4.35	-.209	-.162	-.166	-.306	-.308	8.88
8.89	1.28	.84	-.013	.028	.009	-.012	.136	.120	-.074	1.26	4.33	-.207	-.161	-.167	-.305	-.301	8.89
8.90	1.28	.91	-.009	.020	-.005	-.009	.133	.119	-.073	1.26	4.33	-.209	-.156	-.166	-.305	-.293	8.90
8.91	1.28	1.01	.001	.027	.005	-.010	.135	.119	-.074	1.26	4.31	-.210	-.158	-.167	-.308	-.292	8.91
8.92	1.28	1.00	-.010	.029	.014	-.004	.135	.122	-.070	1.26	4.32	-.210	-.160	-.167	-.310	-.290	8.92
8.93	1.28	1.02	.003	.030	.015	-.010	.134	.120	-.064	1.26	4.28	-.211	-.161	-.169	-.311	-.289	8.93
8.94	1.28	.99	-.010	.031	.011	-.009	.134	.120	-.071	1.25	4.26	-.213	-.162	-.170	-.312	-.288	8.94
8.95	1.28	.99	.002	.030	.020	-.008	.134	.197	-.072	1.25	4.26	-.214	-.161	-.171	-.313	-.286	8.95
8.96	1.28	.99	.009	.021	.016	-.010	.132	.118	-.067	1.25	4.26	-.213	-.164	-.173	-.311	-.287	8.96
8.97	1.28	.96	-.011	.024	.002	-.015	.131	.121	-.067	1.25	4.26	-.215	-.162	-.172	-.312	-.287	8.97
8.98	1.28	.93	.005	.021	.004	-.010	.131	.246	-.074	1.25	4.26	-.214	-.162	-.171	-.312	-.287	8.98
8.99	1.28	.70	-.004	.016	.004	-.009	.132	.119	-.074	1.25	4.28	-.216	-.163	-.170	-.310	-.287	8.99
9.00	1.28	.63	-.010	.015	.002	-.005	.132	.119	-.077	1.25	4.28	-.218	-.166	-.170	-.312	-.285	9.00
9.01	1.28	.70	-.013	.009	-.005	-.010	.133	.121	-.076	1.25	4.29	-.218	-.165	-.172	-.313	-.287	9.01
9.02	1.29	.61	-.011	.014	-.007	-.004	.132	.118	-.075	1.25	4.30	-.219	-.165	-.170	-.313	-.288	9.02
9.03	1.29	.69	-.006	.012	-.002	-.010	.132	.118	-.080	1.25	4.31	-.220	-.164	-.170	-.314	-.288	9.03
9.04	1.29	.73	-.008	.018	-.006	-.009	.132	.117	-.074	1.25	4.30	-.220	-.165	-.171	-.315	-.286	9.04
9.05	1.29	.80	-.007	.010	.000	-.011	.131	.120	-.076	1.24	4.28	-.223	-.169	-.171	-.315	-.287	9.05
9.06	1.29	.82	.007	.004	-.010	-.010	.131	.119	-.074	1.24	4.26	-.222	-.168	-.171	-.315	-.289	9.06
9.07	1.29	.69	-.011	.020	.001	.009	.131	.119	-.071	1.24	4.26	-.225	-.167	-.170	-.316	-.291	9.07
9.08	1.29	1.03	.001	.026	.006	-.007	.130	.118	-.072	1.24	4.25	-.224	-.169	-.172	-.318	-.294	9.08
9.09	1.29	.94	-.008	.026	.010	-.010	.132	.220	-.068	1.24	4.23	-.225	-.171	-.171	-.319	-.297	9.09
9.10	1.29	.92	-.004	.024	.007	-.006	.131	.121	-.070	1.24	4.18	-.223	-.170	-.172	-.320	-.298	9.10
9.11	1.29	1.04	-.002	.019	.001	-.006	.129	.122	-.067	1.24	4.20	-.228	-.169	-.174	-.322	-.299	9.11
9.12	1.29	1.05	-.006	.026	.000	-.004	.132	.122	-.069	1.24	4.21	-.227	-.169	-.172	-.322	-.304	9.12
9.13	1.29	1.18	-.015	.014	.001	-.008	.133	.122	-.069	1.24	4.20	-.227	-.170	-.172	-.324	-.305	9.13
9.14	1.29	.89	-.016	.007	-.001	-.009	.128	.123	-.070	1.24	4.20	-.226	-.171	-.170	-.324	-.303	9.14
9.15	1.29	.94	-.014	.020	-.007	-.005	.129	.120	-.074	1.25	4.26	-.225	-.167	-.170	-.316	-.298	9.15
9.16	1.29	.83	-.012	.015	-.006	-.007	.130	.119	-.071	1.25	4.26	-.224	-.168	-.171	-.316	-.298	9.16
9.17	1.29	.78	-.010	.009	.003	-.007	.130	.121	-.070	1.24	4.27	-.227	-.167	-.171	-.317	-.298	9.17
9.18	1.30	.78	-.016	.012	.000	-.009	.129	.116	-.074	1.23	4.28	-.225	-.170	-.170	-.326	-.306	9.18
9.19	1.30	.68	-.013	.010	.003	-.008	.130	.116	-.071	1.23	4.29	-.225	-.169	-.171	-.324	-.305	9.19
9.20	1.30	.65	-.014	.004	-.007	-.007	.131	.118	-.072	1.23	4.25	-.226	-.171	-.172	-.327	-.306	9.20
9.21	1.30	.72	-.012	.010	.002	-.008	.129	.119	-.070	1.23	4.23	-.227	-.170	-.171	-.326	-.307	9.21
9.22	1.30	.72	-.007	.009	-.003	-.013	.128	.288	-.068	1.23	4.24	-.228	-.170	-.170	-.328	-.306	9.22
9.23	1.30	.75	-.012	.009	-.002	-.009	.128	.120	-.068	1.23	4.21	-.228	-.170	-.170	-.329	-.304	9.23
9.24	1.30	.76	-.007	.007	-.001	-.009	.129	.119	-.068	1.23	4.23	-.230	-.171	-.170	-.329	-.303	9.24
9.25	1.30	.92	-.012	.009	-.001	-.007	.128	.119	-.071	1.23	4.22	-.229	-.170	-.169	-.327	-.301	9.25
9.26	1.30	1.02	-.003	.008	.004	-.009	.128	.120	-.067	1.23	4.21	-.229	-.169	-.170	-.322	-.303	9.26
9.27	1.30	.88	-.002	.036	-.001	-.008	.129	.123	-.069	1.23	4.19	-.232	-.168	-.170	-.334	-.304	9.27
9.28	1.30	1.09	.005	.019	.007	-.007	.127	.118	-.067	1.23	4.19	-.233	-.168	-.169	-.335	-.306	9.28
9.29	1.30	1.11	-.001	.009	.006	-.003	.128	.119	-.064	1.23	4.19	-.230	-.167	-.170	-.336	-.306	9.29
9.30	1.30	.92	-.006	.004	.003	-.005	.126	.117	-.070	1.23	4.17	-.232	-.171	-.172	-.335	-.307	9.30
9.31	1.30	1.18	-.006	.009	-.006	-.005	.131	.268	-.067	1.23	4.19	-.233	-.171	-.170	-.337	-.308	9.31
9.32	1.30	.91	-.006	.001	-.015	-.002	.128	.119	-.069	1.23	4.22	-.233	-.170	-.170	-.336	-.309	9.32
9.33	1.30	.92	-.019	.007	-.014	-.005	.128										

TABLE III.- Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α , deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t, sec
9.40	1.31	.86	-.022	.008	-.006	-.004	.125	.116	-.070	1.22	4.25	-.234	-.175	-.167	-.332	-.309	9.40
9.41	1.31	.94	-.020	.005	-.005	-.004	.127	.115	-.069	1.22	4.26	-.234	-.175	-.166	-.334	-.309	9.41
9.42	1.31	.93	-.024	.006	-.009	-.002	.123	.117	-.069	1.22	4.26	-.237	-.175	-.167	-.336	-.309	9.42
9.43	1.31	1.01	-.026	.003	-.002	-.004	.124	.118	-.031	1.22	4.23	-.235	-.176	-.168	-.331	-.309	9.43
9.44	1.31	1.02	-.023	-.002	-.014	-.001	.127	.119	-.073	1.22	4.23	-.236	-.176	-.168	-.332	-.310	9.44
9.45	1.31	.96	-.024	.000	-.008	.000	.124	.120	-.069	1.22	4.22	-.235	-.176	-.168	-.328	-.312	9.45
9.46	1.31	1.00	-.021	.000	-.006	-.001	.126	.121	-.069	1.22	4.22	-.234	-.179	-.167	-.328	-.310	9.46
9.47	1.31	.97	-.025	-.005	-.011	-.001	.125	.123	-.068	1.22	4.22	-.233	-.180	-.167	-.327	-.310	9.47
9.48	1.31	1.03	-.020	-.006	-.011	.000	.125	.120	-.068	1.21	4.22	-.234	-.178	-.167	-.326	-.311	9.48
9.49	1.31	.93	-.025	-.006	-.007	.001	.127	.121	-.067	1.21	4.20	-.235	-.178	-.166	-.323	-.310	9.49
9.50	1.32	.87	-.024	-.003	-.014	.001	.125	.123	-.066	1.21	4.19	-.237	-.178	-.167	-.322	-.312	9.50
9.51	1.32	.88	-.022	.000	-.011	.000	.126	.120	-.065	1.21	4.17	-.236	-.178	-.169	-.325	-.310	9.51
9.52	1.32	.86	-.020	-.003	-.007	.001	.124	.121	-.065	1.21	4.18	-.235	-.175	-.169	-.323	-.309	9.52
9.53	1.32	.85	-.018	-.001	-.013	.000	.128	.124	-.066	1.21	4.17	-.235	-.176	-.168	-.324	-.310	9.53
9.54	1.32	.80	-.018	-.003	-.008	.000	.127	.120	-.067	1.21	4.17	-.240	-.177	-.168	-.326	-.311	9.54
9.55	1.32	.77	-.018	.004	-.009	.001	.126	.118	-.071	1.21	4.17	-.239	-.176	-.168	-.323	-.305	9.55
9.56	1.32	.83	-.021	-.004	-.009	-.001	.126	.119	-.065	1.21	4.17	-.241	-.178	-.169	-.323	-.298	9.56
9.57	1.32	.86	-.022	-.003	-.015	.004	.129	.121	-.063	1.21	4.17	-.240	-.178	-.169	-.323	-.295	9.57
9.58	1.32	.87	-.018	.001	-.010	.004	.127	.120	-.066	1.21	4.19	-.238	-.177	-.168	-.324	-.292	9.58
9.59	1.32	.78	-.016	-.008	-.017	-.001	.125	.124	-.068	1.21	4.17	-.237	-.175	-.164	-.323	-.292	9.59
9.60	1.32	.95	-.028	-.013	-.014	.001	.127	.115	-.069	1.21	4.06	-.237	-.176	-.164	-.318	-.295	9.60
9.61	1.32	.76	-.021	-.005	-.018	.001	.131	.116	-.069	1.21	3.77	-.241	-.173	-.173	-.323	-.298	9.61
9.62	1.32	.74	-.023	-.006	-.016	-.001	.129	.119	-.071	1.21	3.87	-.243	-.171	-.168	-.326	-.309	9.62
9.63	1.32	.85	-.024	-.003	-.011	.001	.128	.121	-.073	1.20	3.03	-.249	-.180	-.292	-.358	-.336	9.63
9.64	1.32	.93	-.031	-.003	-.006	.001	.129	.116	-.070	1.20	2.63	-.256	-.197	-.320	-.433	-.365	9.64
9.65	1.32	.83	-.033	-.005	-.012	.000	.129	.119	-.070	1.20	2.43	-.262	-.211	-.299	-.510	-.390	9.65
9.66	1.32	.78	-.029	-.006	-.013	.000	.130	.121	-.066	1.20	2.36	-.255	-.216	-.247	-.561	-.404	9.66
9.67	1.32	.80	-.030	-.008	-.013	.000	.131	.120	-.068	1.20	2.50	-.247	-.210	-.208	-.584	-.398	9.67
9.68	1.32	.83	-.030	-.009	-.014	.002	.130	.119	-.071	1.20	2.95	-.232	-.201	-.187	-.578	-.384	9.68
9.69	1.32	.87	-.029	-.006	-.020	-.002	.129	.117	-.071	1.20	3.49	-.215	-.185	-.169	-.557	-.359	9.69
9.70	1.32	.90	-.023	-.010	-.013	-.005	.129	.117	-.071	1.20	4.09	-.203	-.170	-.159	-.497	-.333	9.70
9.71	1.33	.86	-.036	-.013	-.020	-.008	.124	.123	-.069	1.20	4.50	-.197	-.155	-.152	-.426	-.315	9.71
9.72	1.33	-.07	-.048	-.013	-.040	-.012	.127	.116	-.059	1.20	4.85	-.199	-.150	-.149	-.377	-.290	9.72
9.73	1.33	-.89	-.053	-.009	-.034	-.018	.127	.112	-.053	1.20	5.09	-.203	-.146	-.147	-.349	-.263	9.73
9.74	1.33	-1.32	-.060	-.023	-.050	-.021	.131	.105	-.044	1.20	5.22	-.213	-.148	-.149	-.328	-.257	9.74
9.75	1.33	-1.62	-.064	-.031	-.054	-.020	.120	.100	-.035	1.20	5.14	-.222	-.161	-.151	-.309	-.261	9.75
9.76	1.33	-1.56	-.079	-.037	-.061	-.011	.111	.094	-.027	1.20	4.97	-.232	-.168	-.157	-.303	-.265	9.76
9.77	1.33	-1.09	-.080	-.054	-.070	.003	.106	.091	-.019	1.20	4.70	-.246	-.179	-.166	-.301	-.273	9.77
9.78	1.33	-.50	-.095	-.064	-.090	.027	.102	.084	-.014	1.19	4.32	-.261	-.190	-.183	-.304	-.284	9.78
9.79	1.33	.30	-.102	-.089	-.118	.058	.093	.088	-.008	1.19	3.97	-.275	-.204	-.194	-.323	-.294	9.79
9.80	1.33	1.01	-.114	-.103	-.121	.071	.092	.080	.001	1.19	3.68	-.289	-.214	-.202	-.338	-.306	9.80
9.81	1.33	1.66	-.096	-.108	-.125	.085	.084	.085	.019	1.19	3.48	-.300	-.221	-.207	-.342	-.315	9.81
9.82	1.33	2.15	-.061	-.083	-.126	.088	.091	.088	.035	1.19	3.33	-.304	-.227	-.213	-.342	-.323	9.82
9.83	1.33	2.23	-.044	-.063	-.093	.084	.084	.078	.040	1.19	3.26	-.302	-.229	-.215	-.346	-.330	9.83
9.84	1.33	2.08	-.040	-.236	-.069	.069	.051	.061	.047	1.19	3.26	-.298	-.221	-.215	-.342	-.333	9.84
9.85	1.33	1.92	-.042	-.050	-.056	.045	.024	.021	.057	1.19	3.38	-.284	-.219	-.213	-.341	-.331	9.85
9.86	1.33	1.73	-.047	-.053	-.050	.017	.007	-.008	.052	1.19	3.55	-.273	-.212	-.206	-.340	-.325	9.86
9.87	1.33	1.45	-.072	-.073	-.059	.000	-.018	-.034	.070	1.19	3.78	-.259	-.202	-.197	-.342	-.317	9.87
9.88	1.33	1.25	-.094	-.077	-.077	-.034	-.030	-.074	.069	1.19	4.02	-.245	-.187	-.185	-.341	-.303	9.88
9.89	1.33	1.32	-.111	-.104	-.101	-.060	-.035	-.109	.077	1.19	4.27	-.228	-.177	-.177	-.338	-.296	9.89
9.90	1.32	1.55	-.129	-.139	-.138	-.084	-.018	-.139	.082	1.19	4.48	-.216	-.167	-.171	-.337	-.286	9.90
9.91	1.32	1.75	-.147	-.156	-.155	-.100	.036	-.150	.084	1.19	4.62	-.203	-.160	-.165	-.334	-.279	9.91
9.92	1.32	2.36	-.152	-.164	-.168	-.107	.068	-.169	.082	1.19	4.71	-.196	-.152	-.160	-.329	-.275	9.92
9.93	1.32	3.08	-.159	-.163	-.170	-.120	.089	-.173	.083	1.18	4.72	-.191	-.152	-.157	-.325	-.274	9.93
9.94	1.32	3.67	-.166	-.162	-.163	-.123	.102	-.167	.082	1.18	4.65	-.196	-.153	-.156	-.326	-.275	9.94
9.95	1.32	4.07	-.158	-.162	-.164	-.131	.108	-.171	.080	1.18	4.35	-.213	-.164	-.162	-.339	-.294	9.96
9.96	1.32	4.43	-.158	-.164	-.169	-.136	.112	-.166	.076	1.18	4.14	-.227	-.172	-.170	-.346	-.303	9.97
9.97	1.32	4.58	-.160	-.160	-.167	-.137	.110	-.162	.074	1.18	3.84	-.243	-.180	-.178	-.349	-.312	9.98
9.98	1.32	4.43	-.159	-.160	-.164	-.137	.109	-.168	.079	1.18	3.65	-.255	-.188	-.187	-.349	-.317	9.99
9.99	1.32	4.14	-.155	-.162	-.053	-.135	.107	-.159	.080	1.18	3.52	-.263	-.193	-.194	-.344	-.318	10.00
10.00	1.32	3.77	-.162	-.158	-.173	-.138	.100	-.168	.082	1.18	3.41	-.272	-.200	-.200	-.342	-.320	10.01
10.01	1.32	3.42	-.164	-.157	-.162	-.135	.094	-.156	.084	1.18	3.39	-.282	-.206	-.204	-.340	-.319	10.02
10.02	1.32	2.87	-.158	-.169	-.170	-.138	.094	-.168	.084	1.18	3.43	-.288	-.208	-.208	-.338	-.315	10.03
10.03	1.32	2.53	-.157	-.164	-.175	-.132	.095	-.165	.087	1.18	3.48	-.287	-.208	-.209	-.332	-.312	10.04
10.04	1.32	2.09	-.153	-.174	-.168	-.137	.095	-.171	.087	1.18	3.67	-.285	-.208	-.208	-.328	-.306	10.05
10.05	1.32	2.07	-.157	-.168	-.177	-.135	.095	-.173	.084	1.18	3.85	-.279	-.205	-.206	-.328	-.297	10.06
10.06	1.32	2.22	-.154	-.169	-.176	-.129	.100	-.166	.088	1.18	4.00	-.277	-.200	-.202	-.329	-.294	10.07
10.07	1.32	2.23	-.152	-.159	-.174	-.134	.100	-.171	.086	1.17	4.24	-.267	-.196	-.197	-.327	-.271	10.08
10.08	1.32	2.51	-.152	-.168	-.178	-.131	.097	-.165	.084	1.17	4.41	-.263	-.191	-.193	-.324	-.266	10.09
10.09	1.32	2.80	-.156	-.164	-.172	-.130	.103	-.164	.086	1.17	4.42	-.255	-.192	-.188	-.323	-.262	10.10
10.10	1.31	3.19	-.142	-.164	-.167	-.130	.098	-.161	.084	1.17	4.43	-.254	-.186	-.185	-.324	-.265	10.11
10.11	1.31	3.50	-.149	-.163	-.171	-.131	.100	-.161	.084	1.17	4.31	-.252	-.184	-.178	-.324	-.271	10.12
10.12	1.31	3.63	-.151	-.159	-.170	-.138	.096	-.162	.								

TABLE III.- Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t _s	M	α, deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α, deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t _{sec}
10.20	1.31	2.67	-150	-154	-152	-136	.074	-163	.087	1.17	3.66	-258	-189	-188	-386	-315	10.20
10.21	1.31	2.75	-141	-153	-147	-136	.071	-166	.080	1.17	3.69	-256	-195	-188	-382	-314	10.21
10.22	1.31	2.86	-137	-148	-159	-131	.061	-165	.082	1.17	3.73	-258	-196	-192	-374	-313	10.22
10.23	1.30	2.95	-143	-153	-157	-137	.064	-173	.081								
10.24	1.30	2.66	-138	-149	-155	-136	.062	-164	.085								
10.25	1.30	2.81	-140	-151	-155	-130	.058	-163	.086	1.16	3.87	-265	-197	-194	-347	-286	10.25
10.26	1.30	2.92	-141	-148	-152	-134	.056	-163	.087	1.16	3.94	-267	-201	-194	-338	-278	10.26
10.27	1.30	3.11	-140	-150	-147	-133	.051	-159	.088	1.16	4.01	-267	-201	-196	-331	-273	10.27
10.28	1.30	3.27	-139	-143	-152	-131	.048	-162	.089	1.16	4.06	-271	-199	-195	-325	-267	10.28
10.29	1.30	3.39	-134	-144	-149	-130	.038	-157	.091	1.16	4.10	-269	-147	-195	-323	-300	10.29
10.30	1.30	3.50	-134	-146	-156	-129	.034	-155	.087	1.16	4.11	-274	-203	-195	-319	-263	10.30
10.31	1.30	3.69	-129	-152	-162	-130	.030	-159	.090	1.16	4.12	-275	-204	-196	-320	-262	10.31
10.32	1.30	3.36	-132	-145	-143	-132	.019	-149	.092	1.16	4.06	-276	-206	-196	-319	-263	10.32
10.33	1.30	3.26	-132	-144	-150	-132	.015	-152	.090	1.16	4.06	-277	-205	-195	-324	-267	10.33
10.34	1.29	3.06	-123	-151	-151	-132	.011	-152	.093	1.16	4.01	-273	-208	-194	-327	-269	10.34
10.35	1.29	3.00	-134	-140	-149	-131	.005	-152	.088	1.16	3.96	-274	-207	-193	-331	-270	10.35
10.36	1.29	2.90	-129	-143	-144	-129	.002	-153	.094	1.16	3.89	-275	-207	-194	-334	-273	10.36
10.37	1.29	2.77	-123	-144	-144	-126	.005	-149	.089	1.16	3.83	-272	-206	-193	-338	-277	10.37
10.38	1.29	2.75	-129	-140	-156	-126	.011	-149	.094	1.15	3.80	-274	-206	-191	-344	-279	10.38
10.39	1.29	2.69	-125	-144	-151	-128	.017	-145	.098	1.15	3.77	-274	-204	-192	-349	-281	10.39
10.40	1.29	2.69	-137	-138	-137	-126	-.015	-145	.093	1.15	3.78	-270	-201	-191	-353	-281	10.40
10.41	1.29	2.79	-133	-143	-131	-123	-.021	-139	.097	1.15	3.77	-269	-195	-190	-357	-281	10.41
10.42	1.29	2.82	-128	-130	-137	-123	-.019	-144	.091	1.15	3.79	-268	-195	-190	-360	-281	10.42
10.43	1.29	2.95	-131	-128	-134	-124	-.027	-138	.095	1.15	3.90	-266	-195	-190	-362	-280	10.43
10.44	1.29	2.98	-129	-130	-131	-124	-.030	-137	.094	1.15	3.90	-264	-195	-190	-358	-282	10.44
10.45	1.28	3.06	-130	-126	-129	-122	-.028	-138	.093	1.15	3.96	-261	-190	-190	-357	-281	10.45
10.46	1.28	3.17	-124	-134	-123	-121	-.030	-134	.091	1.15	3.99	-264	-192	-191	-353	-279	10.46
10.47	1.28	3.17	-126	-125	-128	-118	-.027	-132	.094	1.15	4.01	-265	-192	-189	-347	-280	10.47
10.48	1.28	3.12	-122	-123	-122	-119	-.033	-131	.090	1.15	4.05	-266	-192	-189	-350	-279	10.48
10.49	1.28	3.09	-126	-125	-125	-120	-.033	-132	.090	1.15	4.03	-268	-191	-193	-343	-277	10.49
10.50	1.28	3.04	-120	-122	-129	-119	-.036	-133	.092	1.15	4.00	-272	-192	-195	-342	-277	10.50
10.51	1.28	2.98	-119	-117	-126	-119	-.038	-126	.092	1.15	3.98	-276	-191	-197	-342	-277	10.51
10.52	1.28	2.78	-114	-117	-124	-125	-.040	-125	.095	1.15	3.97	-279	-196	-197	-340	-275	10.52
10.53	1.28	2.75	-117	-113	-118	-120	-.040	-131	.091	1.14	3.85	-284	-202	-198	-341	-279	10.53
10.54	1.28	2.71	-120	-119	-120	-123	-.045	-127	.092	1.14	3.83	-283	-201	-199	-344	-276	10.54
10.55	1.28	2.59	-119	-116	-120	-116	-.042	-128	.094	1.14	3.79	-289	-210	-198	-342	-276	10.55
10.56	1.27	2.63	-120	-109	-119	-117	-.045	-128	.097	1.14	3.77	-290	-212	-200	-342	-274	10.57
10.57	1.27	2.52	-120	-110	-121	-121	-.042	-130	.091	1.14	3.77	-284	-212	-198	-342	-273	10.58
10.58	1.27	2.55	-122	-110	-115	-118	-.044	-127	.090	1.14	3.82	-286	-212	-199	-341	-274	10.59
10.59	1.27	2.61	-119	-117	-115	-112	-.044	-126	.093	1.14	3.82	-284	-211	-197	-340	-272	10.60
10.60	1.27	2.70	-117	-115	-112	-116	-.043	-124	.093	1.14	3.83	-283	-210	-196	-342	-270	10.61
10.61	1.27	2.84	-118	-114	-116	-113	-.049	-125	.092	1.14	3.87	-283	-207	-188	-352	-268	10.62
10.62	1.27	2.78	-119	-115	-118	-108	-.043	-126	.091	1.14	3.88	-280	-205	-186	-346	-266	10.63
10.63	1.27	2.95	-115	-118	-115	-115	-.046	-126	.092	1.14	3.88	-278	-201	-190	-344	-266	10.64
10.64	1.27	2.86	-115	-119	-108	-112	-.048	-124	.097	1.14	3.90	-274	-197	-185	-348	-264	10.65
10.65	1.27	2.77	-119	-115	-121	-113	-.046	-129	.094	1.14	3.91	-274	-200	-184	-350	-262	10.66
10.66	1.27	2.95	-124	-119	-120	-111	-.050	-123	.092	1.14	3.93	-272	-198	-180	-353	-261	10.67
10.67	1.26	2.72	-118	-119	-119	-112	-.053	-127	.093	1.14	3.93	-269	-200	-179	-354	-260	10.68
10.68	1.26	2.84	-116	-120	-124	-112	-.049	-121	.092	1.14	3.91	-272	-198	-178	-356	-264	10.69
10.69	1.26	2.79	-118	-117	-122	-116	-.050	-128	.098	1.14	3.94	-273	-195	-175	-357	-264	10.70
10.70	1.26	2.76	-118	-118	-126	-122	-.053	-122	.090	1.13	3.89	-274	-197	-182	-364	-264	10.71
10.71	1.26	2.76	-126	-119	-122	-120	-.051	-122	.091	1.13	3.90	-280	-204	-186	-360	-267	10.72
10.72	1.26	2.74	-120	-119	-124	-122	-.049	-121	.100	1.13	3.89	-278	-193	-186	-361	-267	10.73
10.73	1.26	2.73	-120	-124	-120	-123	-.048	-125	.093	1.13	3.89	-279	-202	-186	-357	-268	10.74
10.74	1.26	2.69	-121	-122	-124	-126	-.045	-122	.093	1.13	3.89	-279	-202	-186	-357	-268	10.75
10.75	1.26	2.67	-124	-127	-126	-125	-.043	-127	.098	1.13	3.82	-281	-202	-186	-353	-272	10.76
10.76	1.26	2.79	-125	-127	-130	-124	-.039	-129	.095	1.13	3.79	-286	-203	-191	-349	-272	10.77
10.77	1.26	2.78	-127	-138	-142	-126	-.040	-127	.098	1.13	3.79	-289	-208	-192	-344	-272	10.78
10.78	1.26	2.84	-129	-134	-143	-126	-.039	-128	.095	1.13	3.79	-289	-208	-192	-344	-269	10.79
10.79	1.25	2.90	-132	-136	-138	-133	-.031	-127	.099	1.13	3.78	-290	-209	-192	-342	-274	10.80
10.80	1.25	2.99	-133	-133	-137	-132	-.030	-132	.090	1.13	3.85	-289	-209	-192	-338	-274	10.81
10.81	1.25	2.97	-134	-134	-136	-138	-.022	-134	.090	1.13	3.83	-290	-210	-192	-336	-272	10.82
10.82	1.25	2.97	-136	-138	-146	-130	-.017	-138	.095	1.13	3.83	-290	-212	-193	-335	-273	10.83
10.83	1.25	2.92	-137	-138	-143	-144	-.017	-137	.096	1.13	3.86	-292	-208	-192	-331	-272	10.84
10.84	1.25	2.85	-136	-143	-142	-141	-.012	-141	.093	1.13	3.87	-290	-206	-193	-329	-272	10.85
10.85	1.25	2.86	-143	-145	-153	-144	-.007	-144	.097	1.13	3.96	-290	-207	-189	-331	-271	10.86
10.86	1.25	2.81	-137	-143	-146	-145	-.003	-145	.092	1.13	4.19	-280	-197	-186	-324	-264	10.87
10.87	1.25	2.91	-151	-151	-142	-134	.004	-151	.085	1.13	4.54	-266	-188	-176	-308	-259	10.88
10.88	1.25	2.92	-142	-149	-143	-141	.015	-147	.089	1.12	4.91	-254	-167	-164	-290	-250	10.89
10.89	1.25	2.86	-144	-147	-151	-144	.026	-157	.088	1.12	5.17	-241	-160	-156	-285	-241	10.90
10.90	1.24	2.86	-152	-146	-155	-141	.039	-161	.088	1.12	5.32	-239	-152	-150	-291	-237	10.92
10.91	1.24	2.88	-152	-152	-151	-142	.044	-161	.089	1.12	5.12	-244	-157	-159	-296	-243	10.93
10.92	1.24	2.95	-143	-152	-159	-146	.054	-159	.093	1.12	4.85	-248	-162	-165	-308	-254	10.94
10.93	1.24	2.80	-150	-156	-157	-148	.057	-161	.091	1.12	4.58	-257	-172	-172	-320	-267	10.95
10.94	1.24	2.93	-154	-156	-161	-146	.067	-163	.091	1.12	4.14	-268	-185	-177	-347	-277	10.96
10.95	1.24	2.86	-161	-159	-158	-141	.071	-160	.088	1.12	3.61	-281	-200	-191	-392	-289	10.97

TABLE III.- Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Concluded

Model I										Model II							
t, sec	M	α , deg	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	$C_{p,7}$	M	α , deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t, sec
11.00	1.24	2.93	-.156	-.165	-.162	-.140	.091	-.163	.090	1.12	2.54	-.321	-.232	-.217	-.609	-.320	11.00
										1.12	2.63	-.321	-.240	-.218	-.617	-.321	11.01
										1.12	2.76	-.322	-.234	-.215	-.601	-.316	11.02
										1.12	3.00	-.314	-.227	-.212	-.527	-.305	11.03
										1.12	3.24	-.309	-.217	-.208	-.458	-.294	11.04
										1.12	3.69	-.302	-.213	-.201	-.398	-.287	11.05
										1.12	4.02	-.296	-.205	-.195	-.355	-.281	11.06
										1.11	4.28	-.291	-.197	-.190	-.335	-.279	11.07
										1.11	4.48	-.287	-.193	-.183	-.322	-.277	11.08
										1.11	4.61	-.284	-.191	-.182	-.312	-.274	11.09
11.10	1.23	2.82	-.164	-.180	-.183	-.146	.120	-.165	.084	1.11	4.61	-.287	-.193	-.179	-.308	-.272	11.10
										1.11	4.58	-.284	-.193	-.181	-.306	-.276	11.11
										1.11	4.44	-.286	-.195	-.182	-.309	-.282	11.12
										1.11	4.26	-.293	-.197	-.184	-.315	-.285	11.13
										1.11	4.08	-.296	-.201	-.191	-.329	-.290	11.14
										1.11	3.80	-.300	-.207	-.194	-.355	-.297	11.15
										1.11	3.57	-.305	-.208	-.200	-.390	-.302	11.16
										1.11	3.39	-.304	-.220	-.205	-.430	-.309	11.17
										1.11	3.27	-.307	-.219	-.207	-.470	-.312	11.18
										1.11	3.24	-.306	-.226	-.206	-.508	-.316	11.19
11.20	1.22	2.89	-.175	-.179	-.184	-.146	.128	-.153	.084	1.11	3.21	-.307	-.228	-.209	-.509	-.318	11.20
										1.11	3.16	-.307	-.217	-.213	-.538	-.313	11.21
										1.11	3.21	-.307	-.214	-.212	-.548	-.313	11.22
										1.11	3.32	-.304	-.215	-.209	-.528	-.312	11.23
										1.11	3.49	-.299	-.215	-.208	-.497	-.310	11.24
										1.11	3.66	-.296	-.209	-.199	-.459	-.304	11.25
										1.10	3.81	-.296	-.208	-.196	-.449	-.296	11.26
										1.10	3.95	-.294	-.210	-.190	-.387	-.291	11.27
										1.10	4.07	-.291	-.197	-.188	-.359	-.288	11.28
										1.10	4.15	-.292	-.199	-.189	-.339	-.286	11.29
11.30	1.22	2.77	-.173	-.186	-.192	-.137	.145	-.148	.087	1.10	4.19	-.292	-.200	-.187	-.331	-.284	11.30
										1.10	4.16	-.294	-.206	-.187	-.329	-.282	11.31
										1.10	4.14	-.297	-.202	-.190	-.337	-.284	11.32
										1.10	4.01	-.302	-.207	-.194	-.338	-.285	11.33
										1.10	3.92	-.303	-.209	-.200	-.343	-.292	11.34
										1.10	3.81	-.309	-.216	-.199	-.352	-.296	11.35
										1.10	3.67	-.314	-.213	-.204	-.362	-.302	11.36
										1.10	3.54	-.314	-.216	-.205	-.371	-.307	11.37
										1.10	3.49	-.322	-.216	-.207	-.387	-.309	11.38
										1.10	3.46	-.318	-.224	-.208	-.400	-.310	11.39
11.40	1.21	2.03	-.178	-.194	-.198	-.133	.149	-.154	.087	1.10	3.45	-.322	-.222	-.208	-.417	-.312	11.40
										1.10	3.44	-.319	-.222	-.209	-.431	-.312	11.41
										1.10	3.47	-.321	-.221	-.207	-.434	-.307	11.42
										1.10	3.54	-.319	-.218	-.205	-.435	-.305	11.43
										1.09	3.62	-.312	-.214	-.202	-.431	-.306	11.44
										1.09	3.71	-.307	-.213	-.194	-.422	-.304	11.45
										1.09	3.79	-.306	-.208	-.191	-.414	-.303	11.46
										1.09	3.83	-.304	-.207	-.187	-.412	-.301	11.47
										1.09	3.85	-.304	-.195	-.186	-.403	-.302	11.48
										1.09	3.86	-.304	-.208	-.186	-.404	-.302	11.49
11.50	1.20	2.82	-.176	-.195	-.199	-.130	.149	-.151	.087	1.09	3.88	-.305	-.207	-.183	-.406	-.301	11.50
										1.09	3.88	-.304	-.207	-.188	-.407	-.303	11.51
										1.09	3.83	-.307	-.208	-.188	-.410	-.305	11.52
										1.09	3.79	-.312	-.209	-.189	-.412	-.309	11.53
										1.09	3.72	-.313	-.213	-.191	-.416	-.310	11.54
										1.09	3.64	-.318	-.214	-.196	-.424	-.309	11.55
										1.09	3.60	-.320	-.216	-.199	-.435	-.310	11.56
										1.09	3.56	-.319	-.220	-.200	-.440	-.311	11.57
										1.09	3.53	-.321	-.220	-.197	-.445	-.313	11.58
										1.09	3.53	-.324	-.223	-.199	-.447	-.313	11.59
11.60	1.20	2.90	-.177	-.192	-.195	-.134	.145	-.156	.083	1.09	3.51	-.322	-.223	-.199	-.448	-.313	11.60
										1.09	3.52	-.321	-.220	-.200	-.444	-.313	11.61
										1.08	3.55	-.322	-.223	-.203	-.442	-.310	11.62
										1.08	3.58	-.322	-.220	-.200	-.436	-.310	11.63
										1.08	3.65	-.320	-.221	-.198	-.427	-.312	11.64
										1.08	3.68	-.321	-.218	-.197	-.424	-.313	11.65
										1.08	3.71	-.322	-.215	-.197	-.421	-.313	11.66
										1.08	3.71	-.322	-.215	-.194	-.420	-.311	11.67
										1.08	3.74	-.324	-.218	-.192	-.420	-.308	11.68
										1.08	3.75	-.322	-.217	-.195	-.429	-.312	11.69
11.70	1.19	2.74	-.177	-.187	-.203	-.132	.146	-.157	.074	1.08	3.74	-.320	-.214	-.189	-.440	-.312	11.70
										1.08	3.72	-.317	-.215	-.192	-.447	-.310	11.71
										1.08	3.72	-.320	-.213	-.189	-.452	-.313	11.72
										1.08	3.72	-.321	-.220	-.188	-.456	-.312	11.73
										1.08	3.65	-.322	-.218	-.188	-.458	-.314	11.74
										1.08	3.64	-.322	-.223	-.188	-.462	-.313	11.75
										1.08	3.60	-.320	-.221	-.190	-.464	-.313	11.76
										1.08	3.60	-.319	-.218	-.189	-.464	-.312	11.77
										1.08	3.60	-.325	-.222	-.191	-.468	-.313	11.78
										1.08	3.61	-.324	-.222	-.188	-.471	-.316	11.79

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV

Model III										Model IV										
t, sec	M	α , deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α , deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t, sec	
3.26	1.22	-.96	.156	-.127	.073	.001	-.187	-.053	-.192	1.20	-.65	.154	-.132	-.104	.032	.080	.014	-.043	3.01	
3.27	1.22	-.92	.148	-.126	.085	.027	-.154	-.022	-.188	1.20	-.64	.154	-.131	-.101	.033	.080	.014	-.042	3.02	
3.28	1.22	-.43	.134	-.125	.098	.068	-.092	.034	-.143	1.20	-.64	.154	-.130	-.103	.031	.079	.013	-.041	3.03	
3.29	1.22	-.30	.118	-.126	.121	.116	-.027	.119	-.085	1.20	-.65	.153	-.130	-.104	.025	.079	.011	-.042	3.04	
3.30	1.22	-.37	.095	-.128	.128	.143	.057	.182	.023	1.20	-.64	.153	-.127	-.104	.028	.080	.014	-.041	3.05	
3.31	1.22	-.01	.066	-.129	.111	.153	.119	.187	.125	1.20	-.68	.152	-.127	-.102	.030	.080	.011	-.041	3.06	
3.32	1.21	-.18	.045	-.132	.052	.122	.144	.115	.182	1.20	-.69	.151	-.127	-.102	.028	.080	.012	-.041	3.07	
3.33	1.21	-.60	.018	-.133	-.007	.058	.107	.043	.153	1.21	-.74	.152	-.124	-.103	.028	.077	.007	-.041	3.08	
3.34	1.21	-1.32	.037	-.123	-.080	.001	.072	-.049	.104	1.21	-.79	.151	-.125	-.103	.027	.079	.009	-.041	3.09	
3.35	1.21	-1.83	.090	-.135	-.135	-.034	.034	.141	.029	1.21	-.81	.152	-.124	-.103	.025	.078	.007	-.048	3.10	
3.36	1.21	-2.15	.151	-.132	-.189	.059	.011	-.253	.049	1.21	-.90	.148	-.119	-.108	.025	.080	.007	-.045	3.11	
3.37	1.21	-2.22	.182	-.130	-.227	.082	-.009	-.392	.093	1.21	-.40	.147	-.119	-.108	.025	.080	.004	-.050	3.12	
3.38	1.21	-1.80	.194	-.131	-.239	.088	-.016	-.451	.111	1.20	2.05	.149	-.118	-.105	.029	.081	.004	-.050	3.13	
3.39	1.21	-1.12	.200	-.129	-.227	.077	-.012	-.359	.114	1.20	1.57	.149	-.117	-.105	.032	.080	.000	-.050	3.14	
3.40	1.21	-.18	-.191	-.128	-.200	-.058	.005	-.262	.108	1.20	1.09	.149	-.116	-.106	.024	.080	-.000	-.052	3.15	
3.41	1.21	.74	-.188	-.129	-.180	-.047	.019	-.086	.125	1.20	1.20	.150	-.116	-.106	.029	.081	-.002	-.053	3.16	
3.42	1.21	1.84	.182	-.134	-.145	.039	.035	.145	.049	1.20	1.11	.149	-.115	-.104	.029	.081	-.003	-.054	3.17	
3.43	1.21	2.55	.178	-.142	-.120	.020	.058	-.095	.024	1.20	1.20	.151	-.114	-.103	.030	.080	-.004	-.055	3.18	
3.44	1.21	2.93	.174	-.152	-.105	-.013	.068	-.080	.001	1.20	1.11	.150	-.110	-.102	.031	.079	-.004	-.055	3.19	
3.45	1.21	3.11	.175	-.157	-.088	.005	.070	-.073	.014	1.20	1.05	.147	-.097	-.105	.023	.084	-.004	-.055	3.20	
3.46	1.21	3.09	.171	-.157	-.066	.002	.073	-.069	.020	1.20	1.09	.145	-.065	-.109	.019	.083	-.004	-.056	3.21	
3.47	1.20	2.77	.178	-.156	-.095	.004	.064	-.069	.023	1.20	1.14	.140	-.009	-.113	.009	.080	-.006	-.060	3.22	
3.48	1.20	2.19	.179	-.149	-.113	-.018	.051	-.097	.008	1.20	1.20	.137	.066	-.118	.002	.077	.010	-.060	3.23	
3.49	1.20	1.47	.179	-.141	-.137	.052	.038	-.132	.010	1.20	1.20	1.20	.127	.066	-.118	.002	.077	.010	-.060	3.24
3.50	1.20	.74	-.179	-.139	-.159	-.051	.029	-.174	-.037	1.20	1.20	1.20	.109	.132	-.127	-.012	.070	-.015	-.065	3.25
3.51	1.20	.23	-.181	-.135	-.175	-.060	.017	-.190	-.056	1.20	1.48	.056	.184	-.134	-.031	.062	-.022	-.073	3.26	
3.52	1.20	-.34	.185	-.134	-.194	-.068	.012	-.200	-.071	1.20	1.68	.064	.207	-.137	-.046	.051	-.029	-.074	3.27	
3.53	1.20	-.56	.190	-.132	-.201	-.073	.006	-.210	-.083	1.20	1.93	.040	.196	-.138	-.062	.033	-.037	-.079	3.28	
3.54	1.20	-.68	.191	-.133	-.210	-.069	.004	-.228	-.100	1.20	2.15	.014	.166	-.140	-.074	.007	-.045	-.085	3.29	
3.55	1.20	-.91	.190	-.130	-.203	-.069	.021	-.217	-.101	1.20	2.40	-.006	.134	-.141	-.084	.010	-.055	-.089	3.30	
3.56	1.20	-.18	.190	-.129	-.207	-.065	.004	-.212	-.092	1.20	2.62	-.022	.092	-.137	-.093	.030	-.065	-.092	3.31	
3.57	1.20	.06	.187	-.133	-.199	-.064	.000	-.197	-.079	1.20	2.40	.006	.134	-.141	-.084	.010	-.055	-.089	3.32	
3.58	1.20	.56	.176	-.134	-.182	-.058	.018	-.190	-.064	1.20	2.42	-.022	.092	-.137	-.093	.030	-.065	-.092	3.33	
3.59	1.20	1.04	.169	-.139	-.165	-.048	.031	-.169	-.060	1.20	2.84	-.043	.046	-.138	-.102	.046	-.074	-.095	3.34	
3.60	1.20	1.46	-.185	-.139	-.147	-.041	.043	-.130	-.043	1.20	3.03	-.085	.005	-.138	-.106	.066	-.034	-.104	3.35	
3.61	1.20	1.69	-.177	-.135	-.136	-.024	.030	-.129	-.028	1.20	3.31	-.138	.037	-.136	-.108	.082	-.096	-.114	3.36	
3.62	1.20	1.89	.180	-.142	-.131	-.018	.053	-.126	-.021	1.20	3.62	-.185	.094	-.130	-.109	.096	-.077	-.119	3.37	
3.63	1.19	1.97	.164	-.147	-.124	-.026	.046	-.139	-.019	1.20	3.96	-.219	.134	-.129	-.107	.107	-.107	-.121	3.38	
3.64	1.19	1.91	.134	-.151	-.129	-.059	.015	-.141	-.039	1.19	3.80	-.232	.159	-.130	-.107	.116	-.116	-.133	3.39	
3.65	1.19	1.76	-.107	-.149	-.119	-.073	-.027	-.140	-.047	1.19	3.52	-.229	.177	-.129	-.110	.123	-.132	-.135	3.40	
3.66	1.19	1.49	.014	-.146	-.080	-.063	-.014	-.085	-.037	1.19	2.88	-.226	.180	-.135	-.116	.128	-.119	-.116	3.41	
3.67	1.19	.98	.021	-.143	-.054	.008	.010	-.014	.023	1.19	1.98	-.222	.176	-.142	-.126	.133	-.087	-.085	3.42	
3.68	1.19	.34	.138	-.142	-.057	-.067	-.053	-.086	.011	1.19	.52	-.217	.173	-.150	-.135	.137	-.040	-.052	3.43	
3.69	1.19	.14	.444	-.140	-.098	-.142	-.138	-.170	-.110	1.19	.26	-.203	.167	-.162	-.149	.139	.017	-.015	3.44	
3.70	1.19	.14	.479	-.138	-.128	-.177	-.183	-.217	-.183	1.19	1.78	-.205	.160	-.170	-.159	.143	.078	.020	3.45	
3.71	1.20	.32	.416	-.136	-.152	-.201	-.230	-.240	-.225	1.19	2.36	-.198	.151	-.176	-.166	.144	.125	.046	3.46	
3.72	1.20	.35	.322	-.135	-.160	-.213	-.235	-.259	-.207	1.19	2.84	-.197	.139	-.180	-.170	.144	.145	.059	3.47	
3.73	1.20	.40	.230	-.133	-.186	-.207	-.121	-.167	-.016	1.19	2.71	-.197	.138	-.178	-.169	.142	.153	.057	3.48	
3.74	1.20	.39	.141	-.134	-.194	-.150	-.024	-.069	.015	1.19	2.18	-.203	.148	-.182	-.167	.139	.147	.049	3.49	
3.75	1.20	.34	.077	-.136	-.188	-.071	.026	.031	.024	1.19	1.90	-.207	.159	-.176	-.162	.140	.133	.029	3.50	
3.76	1.20	.25	.070	-.136	-.182	.001	.062	-.026	.042	1.19	.47	-.211	.163	-.170	-.157	.137	.110	.009	3.51	
3.77	1.20	.10	.039	-.136	-.181	.024	.071	-.029	.027	1.19	.44	-.215	.163	-.165	-.148	.138	.070	.016	3.52	
3.78	1.20	-.01	.044	-.137	-.186	.011	.075	-.028	.024	1.19	1.36	-.217	.163	-.156	-.130	.137	.031	-.035	3.53	
3.79	1.20	-.11	.047	-.136	-.193	.006	.085	-.031	.018	1.19	.91	-.216	.162	-.147	-.128	.137	.010	-.060	3.54	
										1.18	2.20	-.216	.162	-.140	-.120	.138	.033	.073	3.55	
										1.18	2.23	-.216	.162	-.134	-.117	.131	.048	.079	3.56	
										1.18	1.92	-.213	.160	-.121	-.115	.126	-.050	-.078	3.57	
										1.18	1.45	-.211	.161	-.132	-.117	.122	-.039	-.066	3.58	
										1.18	.78	-.209	.161	-.136	-.120	.121	-.018	-.057	3.59	
										1.18	.07	-.206	.161	-.142	-.128	.120	.000	-.045	3.60	
										1.18	.54	-.204	.161	-.151	-.137	.120	.035	-.019	3.61	
										1.18	.97	-.203	.161	-.159	-.145	.121	.073	.002	3.62	
										1.18	1.31	-.204	.160	-.165	-.152	.121	.105	.016	3.63	
										1.18	1.42	-.202	.161	-.172	-.157	.129	.113	.019	3.64	
										1.18	1.25	-.203	.159	-.174	-.164	.134	.115	.022	3.65	
										1.18	1.01	-.203	.160	-.177	-.168	.143	.109	.015	3.66	
										1.18	.49	-.203	.158	-.172	-.168	.149	.098	.006	3.67	
										1.18	.06	-.205	.160	-.178	-.168	.155	.074	-.005	3.70	
										1.18	.44	-.206	.162	-.176	-.160	.153	.065	-.025	3.71	
										1.18	.84	-.207	.162	-.172	-.153	.157	.020	-.035	3.72	
										1.18	1.15	-.210	.162	-.196	-.146	.155	.007	-.		

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t _{sec}	M	α deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t _{sec}
3.80	1.20	-25	.047	-.134	-.198	.032	.094	-.028	.019	1.17	30	-.201	.163	-.144	-.134	-.107	.039	-.021	3.80
3.81	1.20	-30	.043	-.136	-.198	.044	.094	-.026	.021	1.17	53	-.189	.161	-.147	-.137	-.105	.057	-.009	3.81
3.82	1.20	-30	.041	-.136	-.196	.053	.094	-.038	.022	1.17	73	-.198	.163	-.151	-.140	-.105	.070	-.003	3.82
3.83	1.20	-21	.037	-.137	-.193	.039	.094	-.031	.022	1.17	89	-.199	.161	-.157	-.145	-.105	.088	-.003	3.83
3.84	1.20	-25	.036	-.135	-.200	.038	.094	-.028	.023	1.17	58	-.201	.162	-.163	-.148	-.106	.087	-.001	3.84
3.85	1.20	-11	.033	-.135	-.197	.043	.094	-.028	.023	1.17	39	-.202	.161	-.165	-.150	-.120	.082	-.001	3.85
3.86	1.20	-02	.033	-.136	-.183	.050	.093	-.020	.023	1.17	06	-.204	.159	-.169	-.154	-.130	.061	-.007	3.86
3.87	1.20	-00	.030	-.135	-.174	.069	.096	-.019	.023	1.17	-20	-.204	.162	-.171	-.156	-.133	.046	-.019	3.87
3.88	1.21	11	.028	-.136	-.170	.070	.093	-.010	.026	1.17	-48	-.206	.162	-.172	-.156	-.143	.031	-.033	3.88
3.89	1.21	10	.027	-.138	-.160	.068	.092	-.007	.025	1.17	-70	-.205	.161	-.173	-.156	-.149	.018	-.040	3.89
3.90	1.21	-19	.028	-.138	-.193	.097	.116	-.038	.001	1.17	-85	-.205	.160	-.173	-.153	-.152	.009	-.043	3.90
3.91	1.21	-19	.026	-.136	-.193	.105	.115	-.035	.001	1.17	-88	-.204	.162	-.170	-.200	-.152	.003	-.044	3.91
3.92	1.21	-20	.024	-.138	-.188	.103	.115	-.036	.003	1.17	-68	-.203	.163	-.167	-.148	-.151	.004	-.044	3.92
3.93	1.21	-31	.025	-.136	-.196	.105	.116	-.042	.001	1.17	-68	-.203	.163	-.166	-.146	-.144	.004	-.044	3.93
3.94	1.21	-37	.024	-.137	-.199	.091	.113	-.049	.002	1.17	-47	-.204	.162	-.162	-.145	-.139	.016	-.040	3.94
3.95	1.21	-48	.019	-.136	-.194	.094	.113	-.047	.003	1.17	-21	-.203	.163	-.159	-.142	-.130	.023	-.038	3.95
3.96	1.21	-52	.020	-.136	-.202	.086	.112	-.048	.001	1.16	-04	-.204	.164	-.157	-.141	-.119	.032	-.029	3.96
3.97	1.21	-50	.022	-.136	-.205	.094	.111	-.047	.001	1.16	23	-.206	.162	-.155	-.141	-.115	.043	-.014	3.97
3.98	1.21	-56	.019	-.137	-.206	.097	.112	-.055	.000	1.16	35	-.206	.164	-.155	-.143	-.106	.056	-.009	3.98
3.99	1.21	-56	.018	-.136	-.202	.100	.111	-.052	.000	1.16	41	-.207	.163	-.155	-.141	-.103	.065	-.011	3.99
4.00	1.21	-41	.015	-.135	-.203	.094	.109	-.050	.001	1.16	39	-.208	.164	-.156	-.143	-.102	.068	-.013	4.00
4.01	1.21	07	.011	-.137	-.146	.060	.080	-.024	.030	1.16	28	-.207	.165	-.160	-.144	-.098	.065	-.008	4.01
4.02	1.21	03	.013	-.136	-.146	.063	.079	-.015	.031	1.16	15	-.208	.164	-.161	-.147	-.102	.050	-.012	4.02
4.03	1.21	12	.013	-.135	-.133	.062	.079	-.003	.029	1.16	-02	-.206	.166	-.162	-.147	-.112	.039	-.017	4.03
4.04	1.21	16	.011	-.136	-.118	.064	.079	-.003	.031	1.16	-20	-.205	.164	-.164	-.149	-.117	.039	-.017	4.04
4.05	1.22	20	.012	-.135	-.134	.057	.078	-.009	.028	1.16	-35	-.205	.166	-.165	-.153	-.123	.030	-.028	4.05
4.06	1.22	24	.013	-.135	-.130	.061	.077	-.003	.029	1.16	-52	-.204	.165	-.169	-.153	-.127	.020	-.037	4.06
4.07	1.22	31	.012	-.137	-.132	.062	.077	-.001	.028	1.16	-61	-.204	.166	-.168	-.153	-.134	.013	-.041	4.07
4.08	1.22	20	.009	-.135	-.119	.064	.077	-.003	.031	1.16	-65	-.205	.167	-.170	-.153	-.139	.010	-.042	4.08
4.09	1.22	09	.010	-.135	-.130	.057	.076	-.008	.031	1.16	-61	-.205	.165	-.170	-.154	-.142	.009	-.038	4.09
4.10	1.22	07	.008	-.135	-.148	.056	.077	-.013	.029	1.16	-50	-.206	.165	-.171	-.156	-.141	.012	-.038	4.10
4.11	1.22	04	.013	-.136	-.143	.057	.077	-.012	.028	1.16	-41	-.206	.168	-.171	-.153	-.139	.017	-.028	4.11
4.12	1.22	-05	.008	-.135	-.145	.058	.077	-.012	.031	1.16	-24	-.205	.168	-.170	-.152	-.134	.022	-.022	4.12
4.13	1.22	-12	.007	-.134	-.146	.058	.076	-.020	.029	1.16	-10	-.206	.169	-.167	-.154	-.130	.029	-.017	4.13
4.14	1.22	-13	.006	-.136	-.141	.056	.076	-.018	.028	1.15	-00	-.206	.170	-.167	-.152	-.124	.035	-.011	4.14
4.15	1.22	-12	.003	-.133	-.131	.059	.076	-.017	.026	1.15	14	-.205	.168	-.165	-.149	-.117	.045	-.005	4.15
4.16	1.22	-05	.004	-.135	-.143	.057	.074	-.021	.029	1.15	19	-.204	.169	-.165	-.149	-.113	.052	-.011	4.16
4.17	1.22	-03	.001	-.136	-.141	.061	.074	-.020	.028	1.15	20	-.209	.170	-.163	-.147	-.106	.057	-.005	4.17
4.18	1.22	02	.001	-.135	-.136	.065	.075	-.012	.026	1.15	17	-.193	.170	-.163	-.146	-.105	.057	-.008	4.18
4.19	1.22	07	.001	-.136	-.145	.062	.073	-.010	.027	1.15	09	-.199	.170	-.163	-.147	-.105	.054	-.007	4.19
4.20	1.22	08	.000	-.136	-.140	.062	.075	-.008	.023	1.15	01	-.204	.172	-.161	-.146	-.104	.047	-.009	4.20
4.21	1.22	15	.000	-.137	-.142	.070	.074	-.006	.024	1.15	-13	-.204	.172	-.162	-.147	-.106	.041	-.018	4.21
4.22	1.23	13	.000	-.135	-.140	.064	.074	-.006	.025	1.15	-28	-.203	.172	-.162	-.148	-.107	.032	-.019	4.22
4.23	1.23	13	.003	-.134	-.134	.065	.073	-.008	.024	1.15	-32	-.202	.174	-.163	-.149	-.113	.027	-.025	4.23
4.24	1.23	07	.003	-.137	-.137	.066	.072	-.008	.021	1.15	-42	-.202	.175	-.165	-.153	-.115	.022	-.029	4.24
4.25	1.23	05	-.001	-.137	-.142	.060	.072	-.009	.023	1.15	45	-.201	.173	-.166	-.155	-.118	.018	-.032	4.25
4.26	1.23	01	-.003	-.134	-.144	.058	.072	-.009	.023	1.15	-48	-.201	.162	-.165	-.158	-.123	.015	-.032	4.26
4.27	1.23	-03	-.003	-.136	-.140	.065	.072	-.015	.021	1.15	-44	-.202	.166	-.169	-.159	-.122	.015	-.030	4.27
4.28	1.23	-07	-.002	-.136	-.144	.062	.071	-.019	.022	1.15	-40	-.203	.132	-.170	-.160	-.124	.015	-.029	4.28
4.29	1.23	-11	-.003	-.135	-.148	.063	.072	-.015	.021	1.15	-30	-.201	.123	-.173	-.161	-.129	.019	-.023	4.29
4.30	1.23	-12	-.003	-.135	-.152	.062	.071	-.012	.020	1.15	-19	-.201	.120	-.175	-.160	-.123	.023	-.015	4.30
4.31	1.23	-05	-.003	-.135	-.144	.060	.066	-.010	.025	1.15	-10	-.202	.123	-.174	-.159	-.121	.029	-.011	4.31
4.32	1.23	00	-.003	-.134	-.143	.058	.066	-.010	.023	1.15	07	-.200	.130	-.174	-.160	-.117	.031	-.007	4.32
4.33	1.23	02	-.003	-.134	-.145	.055	.066	-.005	.023	1.14	-05	-.201	.147	-.174	-.160	-.118	.037	-.004	4.33
4.34	1.23	06	-.001	-.135	-.143	.060	.066	-.003	.026	1.14	-02	-.200	.167	-.171	-.157	-.113	.040	-.002	4.34
4.35	1.23	04	-.002	-.134	-.143	.057	.067	-.007	.024	1.14	-06	-.199	.180	-.169	-.155	-.113	.044	-.003	4.35
4.36	1.23	00	.001	-.134	-.148	.064	.066	-.006	.023	1.14	-08	-.200	.183	-.168	-.152	-.109	.043	-.003	4.36
4.37	1.23	08	-.002	-.136	-.144	.056	.066	-.008	.024	1.14	-14	-.201	.181	-.167	-.151	-.108	.042	-.003	4.37
4.38	1.23	08	-.003	-.133	-.145	.058	.066	-.005	.023	1.14	-18	-.200	.183	-.166	-.149	-.105	.038	-.003	4.38
4.39	1.24	11	-.003	-.134	-.149	.064	.065	-.005	.021	1.14	-22	-.200	.181	-.164	-.149	-.103	.036	-.006	4.39
4.40	1.24	14	-.003	-.135	-.141	.063	.066	-.005	.020	1.14	-26	-.199	.181	-.165	-.148	-.103	.030	-.010	4.40
4.41	1.24	11	-.001	-.136	-.141	.059	.065	-.003	.023	1.14	-28	-.199	.181	-.165	-.150	-.102	.025	-.015	4.41
4.42	1.24	06	-.006	-.133	-.140	.059	.064	-.000	.021	1.14	-30	-.198	.180	-.166	-.150	-.101	.023	-.015	4.42
4.43	1.24	07	-.005	-.134	-.143	.052	.065	-.000	.022	1.14	-31	-.198	.181	-.166	-.150	-.101	.023	-.015	4.43
4.44	1.24	07	-.005	-.135	-.138	.056	.065	-.005	.022	1.14	-30	-.198	.181	-.165	-.152	-.105	.023	-.015	4.44
4.45	1.24	-02	-.006	-.136	-.147	.056	.066	-.010	.022	1.14	-29	-.199	.181	-.168	-.148	-.107	.023	-.015	4.45
4.46	1.24	-01	-.005	-.135	-.143	.055	.066	-.007	.020	1.14	-25	-.197	.180	-.168	-.152	-.103	.023	-.016	4.46
4.47	1.24	-02	-.006	-.136	-.124	.050	.068	-.011	.016	1.14	-2								

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t_z sec	M	α deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t_z sec
4.60	1.25	-0.02	-0.007	-0.138	-0.152	0.054	0.071	-0.015	0.015	1.13	-2.9	-0.198	0.185	-0.171	-0.149	-0.095	0.028	-0.011	4.60
4.61	1.25	-0.02	-0.008	-0.139	-0.157	0.053	0.070	-0.015	0.015	1.13	-2.9	-0.199	0.184	-0.171	-0.148	-0.095	0.026	-0.016	4.61
4.62	1.25	-0.06	-0.007	-0.138	-0.159	0.045	0.071	-0.015	0.013	1.13	-2.9	-0.199	0.183	-0.171	-0.149	-0.094	0.026	-0.010	4.62
4.63	1.25	-0.06	-0.006	-0.138	-0.163	0.039	0.069	-0.015	0.012	1.13	-2.9	-0.198	0.185	-0.172	-0.148	-0.094	0.026	-0.009	4.63
4.64	1.25	-0.09	-0.007	-0.138	-0.159	0.039	0.069	-0.013	0.013	1.13	-2.6	-0.199	0.184	-0.173	-0.148	-0.093	0.027	-0.009	4.64
4.65	1.25	-0.05	-0.007	-0.138	-0.156	0.044	0.070	-0.022	0.012	1.13	-2.8	-0.198	0.184	-0.173	-0.146	-0.092	0.028	-0.010	4.65
4.66	1.25	-0.05	-0.005	-0.138	-0.156	0.051	0.070	-0.013	0.013	1.13	-2.6	-0.197	0.184	-0.173	-0.150	-0.090	0.028	-0.010	4.66
4.67	1.25	0.01	-0.006	-0.137	-0.156	0.046	0.071	-0.015	0.013	1.13	-2.5	-0.196	0.182	-0.173	-0.151	-0.093	0.028	-0.010	4.67
4.68	1.25	0.01	-0.007	-0.137	-0.152	0.044	0.072	-0.017	0.009	1.13	-2.5	-0.196	0.184	-0.174	-0.151	-0.094	0.029	-0.010	4.68
4.69	1.25	0.08	-0.006	-0.137	-0.151	0.045	0.072	-0.015	0.013	1.12	-2.4	-0.196	0.182	-0.178	-0.152	-0.095	0.029	-0.010	4.69
4.70	1.25	0.07	-0.005	-0.136	-0.151	0.052	0.072	-0.011	0.013	1.12	-2.2	-0.197	0.182	-0.178	-0.156	-0.096	0.030	-0.009	4.70
4.71	1.25	0.01	-0.004	-0.137	-0.155	0.043	0.074	-0.016	0.012	1.12	-2.4	-0.196	0.183	-0.179	-0.159	-0.097	0.032	-0.010	4.71
4.72	1.25	0.03	-0.007	-0.139	-0.155	0.049	0.073	-0.015	0.011	1.12	-2.4	-0.196	0.184	-0.180	-0.158	-0.097	0.033	-0.010	4.72
4.73	1.26	0.08	0.004	-0.137	-0.149	0.048	0.075	-0.007	0.013	1.12	-2.4	-0.197	0.181	-0.181	-0.156	-0.098	0.033	-0.010	4.73
4.74	1.26	0.02	-0.005	-0.137	-0.156	0.045	0.073	-0.015	0.012	1.12	-2.7	-0.195	0.183	-0.180	-0.157	-0.093	0.033	-0.009	4.74
4.75	1.26	0.03	-0.004	-0.137	-0.157	0.051	0.076	-0.017	0.012	1.12	-2.5	-0.195	0.182	-0.180	-0.158	-0.097	0.032	-0.009	4.75
4.76	1.26	0.03	-0.004	-0.136	-0.155	0.044	0.075	-0.013	0.012	1.12	-2.6	-0.195	0.183	-0.179	-0.155	-0.097	0.032	-0.009	4.76
4.77	1.26	-0.04	-0.001	-0.137	-0.159	0.041	0.077	-0.017	0.011	1.12	-2.6	-0.195	0.181	-0.180	-0.157	-0.095	0.032	-0.010	4.77
4.78	1.26	-0.06	-0.002	-0.137	-0.156	0.035	0.077	-0.014	0.012	1.12	-2.7	-0.195	0.181	-0.178	-0.154	-0.096	0.032	-0.010	4.78
4.79	1.26	-0.08	-0.002	-0.137	-0.162	0.035	0.079	-0.019	0.013	1.12	-2.5	-0.194	0.182	-0.177	-0.154	-0.092	0.032	-0.009	4.79
4.80	1.26	-0.10	-0.002	-0.135	-0.166	0.037	0.077	-0.015	0.011	1.12	-2.6	-0.194	0.181	-0.178	-0.152	-0.092	0.031	-0.011	4.80
4.81	1.26	0.09	-0.001	-0.138	-0.170	0.028	0.078	-0.022	0.013	1.12	-3.1	-0.196	0.183	-0.179	-0.148	-0.088	0.031	-0.011	4.81
4.82	1.26	-0.08	0.001	-0.135	-0.167	0.029	0.078	-0.026	0.012	1.12	-2.9	-0.195	0.185	-0.178	-0.145	-0.088	0.032	-0.011	4.82
4.83	1.26	-0.04	0.001	-0.136	-0.164	0.031	0.079	-0.011	0.015	1.12	-2.8	-0.195	0.184	-0.178	-0.145	-0.093	0.033	-0.011	4.83
4.84	1.26	-0.07	0.001	-0.137	-0.171	0.028	0.080	-0.023	0.012	1.12	-3.0	-0.195	0.182	-0.179	-0.140	-0.085	0.032	-0.011	4.84
4.85	1.26	-0.05	0.000	-0.137	-0.171	0.034	0.080	-0.015	0.013	1.12	-2.9	-0.194	0.182	-0.177	-0.143	-0.082	0.033	-0.011	4.85
4.86	1.26	-0.01	0.000	-0.137	-0.171	0.027	0.081	-0.015	0.017	1.12	-2.8	-0.194	0.179	-0.179	-0.142	-0.077	0.032	-0.011	4.86
4.87	1.26	-0.03	0.001	-0.136	-0.172	0.028	0.081	-0.011	0.017	1.12	-2.5	-0.171	0.158	-0.179	-0.140	-0.081	0.032	-0.011	4.87
4.88	1.26	-0.04	0.002	-0.136	-0.169	0.028	0.080	-0.011	0.017	1.11	-3.0	-0.104	0.111	-0.180	-0.115	-0.079	0.033	-0.012	4.88
4.89	1.26	0.01	0.003	-0.135	-0.170	0.024	0.080	0.000	0.016	1.12	-3.5	0.020	0.046	-0.169	-0.045	-0.046	0.033	-0.011	4.89
4.90	1.27	-0.06	0.002	-0.136	-0.175	0.020	0.081	-0.010	0.018	1.12	-4.9	0.177	-0.038	-0.136	-0.001	0.006	0.025	-0.011	4.90
4.91	1.27	0.03	0.001	-0.136	-0.174	0.008	0.080	-0.008	0.021	1.12	-5.8	0.423	-0.141	0.016	0.064	0.010	0.016	-0.011	4.91
4.92	1.27	-0.00	0.003	-0.137	-0.170	0.013	0.079	-0.002	0.023	1.12	-5.6	0.533	-0.222	0.035	0.066	0.005	0.014	-0.011	4.92
4.93	1.27	-0.04	0.002	-0.136	-0.172	0.011	0.076	-0.010	0.020	1.12	-5.1	0.503	-0.223	-0.011	0.053	0.002	0.011	-0.010	4.93
4.94	1.27	-0.00	0.003	-0.136	-0.173	0.009	0.078	-0.003	0.020	1.12	-4.5	0.368	-0.181	-0.067	0.032	0.000	0.014	-0.009	4.94
4.95	1.27	-0.07	0.004	-0.136	-0.175	0.007	0.080	-0.005	0.021	1.12	-3.6	0.261	-0.044	-0.112	0.010	0.000	0.018	-0.010	4.95
4.96	1.27	-0.09	0.003	-0.137	-0.176	0.003	0.078	-0.005	0.022	1.12	-2.9	0.169	0.058	-0.148	-0.014	0.000	0.022	-0.006	4.96
4.97	1.27	-0.09	0.005	-0.136	-0.178	0.008	0.086	0.001	0.023	1.12	-2.9	0.092	0.117	-0.163	-0.029	0.000	0.027	-0.008	4.97
4.98	1.27	-0.06	0.007	-0.134	-0.177	0.010	0.086	-0.008	0.024	1.12	-3.0	0.032	0.151	-0.172	-0.040	0.001	0.028	-0.008	4.98
4.99	1.27	-0.06	0.006	-0.137	-0.177	0.009	0.085	-0.002	0.023	1.12	-3.7	0.006	0.159	-0.174	-0.049	0.002	0.027	-0.008	4.99
5.00	1.27	-0.05	0.003	-0.135	-0.173	-0.007	0.084	-0.005	0.023	1.12	-4.2	-0.011	0.143	-0.176	-0.050	0.005	0.023	-0.008	5.00
5.01	1.27	-0.03	0.004	-0.135	-0.165	-0.009	0.082	0.005	0.024	1.12	-5.4	-0.022	0.128	-0.179	-0.053	0.009	0.017	-0.014	5.01
5.02	1.27	0.02	0.007	-0.136	-0.165	0.010	0.079	-0.007	0.022	1.12	-6.1	0.032	0.111	-0.179	-0.055	0.008	0.011	-0.013	5.02
5.03	1.27	0.03	0.006	-0.138	-0.162	0.005	0.085	0.003	0.024	1.12	-6.9	0.045	0.095	-0.178	-0.062	0.009	0.008	-0.013	5.03
5.04	1.27	0.04	0.009	-0.137	-0.157	0.011	0.078	0.003	0.026	1.12	-7.5	0.073	0.080	-0.179	-0.070	0.010	0.005	-0.013	5.04
5.05	1.27	0.03	0.005	-0.137	-0.157	0.014	0.080	0.008	0.024	1.12	-7.6	0.117	0.064	-0.177	-0.090	0.010	0.002	-0.013	5.05
5.06	1.27	-0.04	0.010	-0.137	-0.162	0.016	0.082	0.004	0.027	1.12	-7.8	0.140	0.061	-0.176	-0.097	0.010	0.001	-0.022	5.06
5.07	1.28	0.02	0.008	-0.138	-0.160	0.019	0.080	0.003	0.026	1.12	-7.5	0.157	0.067	-0.173	-0.109	0.010	0.000	-0.021	5.07
5.08	1.28	0.02	0.007	-0.138	-0.162	0.022	0.083	0.010	0.025	1.12	-7.1	0.165	0.062	-0.173	-0.106	0.010	0.001	-0.021	5.08
5.09	1.28	-0.03	0.008	-0.137	-0.167	0.024	0.082	0.016	0.025	1.12	-6.8	0.166	0.061	-0.175	-0.097	0.010	0.002	-0.021	5.09
5.10	1.28	-0.11	0.007	-0.139	-0.164	-0.027	0.078	0.012	0.023	1.12	-6.2	0.166	0.062	-0.172	-0.097	0.012	0.006	-0.022	5.10
5.11	1.28	-0.03	0.007	-0.138	-0.161	-0.027	0.079	0.012	0.027	1.12	-5.8	0.165	0.063	-0.172	-0.099	0.011	0.008	-0.016	5.11
5.12	1.28	-0.01	0.009	-0.139	-0.166	-0.031	0.081	0.019	0.025	1.12	-5.3	0.166	0.063	-0.171	-0.097	0.010	0.011	-0.016	5.12
5.13	1.28	0.06	0.006	-0.136	-0.163	-0.032	0.087	0.016	0.027	1.12	-4.8	0.165	0.061	-0.171	-0.100	0.008	0.013	-0.017	5.13
5.14	1.28	-0.04	0.007	-0.137	-0.165	-0.036	0.083	0.020	0.027	1.12	-5.0	0.165	0.062	-0.172	-0.102	0.008	0.014	-0.011	5.14
5.15	1.28	-0.04	0.007	-0.138	-0.164	-0.034	0.082	0.016	0.028	1.12	-5.0	0.164	0.062	-0.171	-0.101	0.009	0.015	-0.012	5.15
5.16	1.28	-0.04	0.007	-0.137	-0.164	-0.036	0.082	0.028	0.029	1.12	-5.3	0.164	0.063	-0.174	-0.096	0.008	0.013	-0.013	5.16
5.17	1.28	-0.00	0.005	-0.136	-0.161	-0.035	0.082	0.018	0.025	1.12	-5.2	0.164	0.062	-0.174	-0.106	0.008	0.013	-0.008	5.17
5.18	1.28	-0.03	0.003	-0.136	-0.164	-0.036	0.083	0.016	0.029	1.12	-5.7	0.164	0.063	-0.174	-0.109	0.008	0.011	-0.008	5.18
5.19	1.28	0.00	0.005	-0.138	-0.157	-0.039	0.084	0.020	0.029	1.12	-6.3	0.164							

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t ₂ sec	M	α ₂ deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α ₂ deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t ₂ sec
5.40	1.29	-46	.011	-.134	-.195	-.030	.112	.001	.011	1.12	-.61	-.010	.146	-.175	-.053	.015	.012	-.012	5.40
5.41	1.30	-49	.012	-.134	-.194	-.026	.111	.006	.010	1.12	-.61	-.009	.151	-.176	-.052	.016	.010	-.019	5.41
5.42	1.30	-45	.010	-.134	-.200	-.028	.110	.012	.011	1.12	-.61	-.008	.151	-.177	-.054	.015	.008	-.020	5.42
5.43	1.30	-47	.009	-.134	-.200	-.033	.109	.007	.012	1.12	-.62	-.008	.153	-.176	-.056	.015	.008	-.020	5.43
5.44	1.30	-45	.011	-.133	-.203	-.035	.113	.004	.013	1.13	-.61	-.005	.152	-.178	-.058	.014	.006	-.020	5.44
5.45	1.30	-47	.010	-.135	-.200	-.036	.111	.010	.013	1.13	-.62	-.004	.151	-.176	-.057	.014	.006	-.021	5.45
5.46	1.30	-44	.012	-.134	-.201	-.040	.112	-.001	.013	1.13	-.61	-.002	.149	-.176	-.059	.011	.005	-.021	5.46
5.47	1.30	-48	.013	-.134	-.199	-.038	.114	.002	.018	1.13	-.59	-.001	.148	-.175	-.057	.011	.005	-.021	5.47
5.48	1.30	-47	.011	-.133	-.202	-.041	.112	-.004	.020	1.13	-.59	-.001	.148	-.175	-.059	.009	.005	-.021	5.48
5.49	1.30	-49	.009	-.133	-.203	-.045	.113	-.001	.018	1.13	-.59	.000	.150	-.172	-.059	.009	.005	-.021	5.49
5.50	1.30	-38	.011	-.133	-.202	-.044	.110	-.002	.019	1.13	-.61	-.003	.154	-.173	-.055	.011	.008	-.021	5.50
5.51	1.30	.03	.013	-.134	-.166	-.080	.084	.027	.048	1.13	-.61	-.002	.152	-.173	-.056	.010	.008	-.021	5.51
5.52	1.30	-.01	.013	-.133	-.166	-.080	.085	.023	.047	1.13	-.57	-.001	.154	-.171	-.054	.010	.009	-.021	5.52
5.53	1.30	-.01	.012	-.133	-.166	-.084	.085	.018	.052	1.13	-.57	-.002	.154	-.169	-.054	.009	.010	-.021	5.53
5.54	1.30	-.03	.014	-.134	-.164	-.087	.084	.015	.050	1.13	-.57	-.001	.154	-.170	-.050	.008	.011	-.021	5.54
5.55	1.30	-.04	.015	-.133	-.164	-.088	.085	.007	.052	1.13	-.56	-.001	.154	-.169	-.049	.007	.011	-.021	5.55
5.56	1.30	-.02	.015	-.134	-.167	-.088	.084	.000	.055	1.13	-.56	.000	.155	-.167	-.050	.006	.011	-.021	5.56
5.57	1.30	-.03	.016	-.134	-.168	-.090	.085	-.011	.058	1.13	-.57	.000	.154	-.168	-.052	.005	.010	-.021	5.57
5.58	1.31	-.04	.015	-.133	-.164	-.089	.085	-.017	.055	1.13	-.57	.000	.155	-.166	-.052	.005	.011	-.019	5.58
5.59	1.31	-.02	.015	-.135	-.162	-.093	.084	-.028	.056	1.13	-.58	.000	.155	-.167	-.053	.003	.010	-.020	5.59
5.60	1.31	-.06	.016	-.133	-.164	-.091	.085	-.039	.058	1.13	-.59	-.000	.157	-.165	-.053	.003	.010	-.020	5.60
5.61	1.31	-.05	.013	-.134	-.163	-.094	.084	-.044	.059	1.13	-.57	.000	.155	-.167	-.056	.002	.009	-.024	5.61
5.62	1.31	-.06	.016	-.134	-.162	-.095	.084	.050	.057	1.13	-.59	.000	.156	-.166	-.056	.001	.009	-.027	5.62
5.63	1.31	-.02	.019	-.133	-.164	-.095	.083	-.056	.060	1.13	-.58	.000	.155	-.166	-.057	.001	.010	-.028	5.63
5.64	1.31	-.03	.016	-.133	-.166	-.098	.086	-.063	.059	1.14	-.61	.001	.156	-.167	-.059	.000	.006	-.028	5.64
5.65	1.31	-.05	.018	-.133	-.169	-.100	.085	-.073	.054	1.14	-.59	.000	.154	-.168	-.062	.000	.007	-.028	5.65
5.66	1.31	-.01	.017	-.133	-.166	-.103	.083	-.076	.061	1.14	-.61	.002	.156	-.168	-.064	.000	.006	-.028	5.66
5.67	1.31	-.04	.018	-.133	-.159	-.100	.081	-.085	.061	1.14	-.57	.003	.156	-.168	-.065	-.000	.008	-.028	5.67
5.68	1.31	-.05	.017	-.132	-.165	-.100	.082	-.100	.062	1.14	-.58	.002	.156	-.168	-.064	-.000	.007	-.028	5.68
5.69	1.31	-.05	.024	-.134	-.163	-.102	.081	-.117	.064	1.14	-.55	.003	.155	-.169	-.064	-.002	.009	-.028	5.69
5.70	1.31	-.05	.018	-.132	-.162	-.102	.083	-.129	.064	1.14	-.55	.002	.157	-.169	-.063	-.002	.009	-.028	5.70
5.71	1.31	-.04	.018	-.133	-.166	-.106	.079	-.144	.067	1.14	-.59	.001	.161	-.172	-.060	.000	.011	-.028	5.71
5.72	1.31	-.01	.018	-.133	-.166	-.103	.084	-.151	.067	1.14	-.58	.001	.160	-.169	-.060	.000	.011	-.028	5.72
5.73	1.31	-.11	.018	-.133	-.169	-.105	.083	-.158	.066	1.14	-.56	.002	.160	-.170	-.060	.000	.014	-.027	5.73
5.74	1.32	-.04	.018	-.131	-.163	-.107	.084	-.160	.066	1.14	-.56	.001	.161	-.169	-.060	.000	.014	-.028	5.74
5.75	1.32	-.07	.018	-.131	-.162	-.107	.085	-.165	.065	1.14	-.53	.001	.161	-.166	-.062	.000	.012	-.028	5.75
5.76	1.32	-.09	.018	-.132	-.163	-.105	.085	-.163	.066	1.14	-.56	.001	.160	-.167	-.061	-.000	.013	-.028	5.76
5.77	1.32	-.12	.016	-.133	-.158	-.104	.080	-.156	.059	1.14	-.55	.001	.161	-.165	-.059	-.000	.012	-.028	5.77
5.78	1.32	-.41	.017	-.135	-.168	-.101	.071	-.157	.063	1.14	-.56	.003	.162	-.164	-.059	-.002	.012	-.028	5.78
5.79	1.32	-.88	.019	-.139	-.173	-.103	.067	-.091	.086	1.14	-.55	.003	.162	-.164	-.059	-.003	.012	-.028	5.79
5.80	1.32	-.92	.017	-.143	-.183	-.115	.046	-.093	.098	1.14	-.57	.000	.161	-.163	-.059	-.003	.011	-.028	5.80
5.81	1.32	-1.32	.016	-.145	-.195	-.138	.031	-.105	.103	1.14	-.58	.004	.162	-.162	-.058	-.004	.009	-.036	5.81
5.82	1.32	-1.55	.019	-.148	-.216	-.151	.024	-.180	.092	1.14	-.57	.003	.161	-.161	-.061	-.004	.009	-.037	5.82
5.83	1.32	-1.96	.018	-.148	-.241	-.163	.019	-.263	.043	1.14	-.58	.003	.161	-.163	-.061	-.004	.010	-.038	5.83
5.84	1.32	-1.93	.018	-.150	-.244	-.171	.021	-.273	.011	1.15	-.57	.003	.161	-.162	-.061	-.004	.009	-.039	5.84
5.85	1.32	-1.49	.019	-.147	-.234	-.165	.029	-.268	.018	1.15	-.57	.002	.163	-.163	-.062	-.004	.009	-.039	5.85
5.86	1.32	-.81	.020	-.145	-.212	-.154	.045	-.244	.044	1.15	-.57	.003	.162	-.163	-.065	-.006	.010	-.039	5.86
5.87	1.32	-.17	.017	-.144	-.192	-.129	.062	-.204	.048	1.15	-.58	.003	.162	-.164	-.065	-.004	.010	-.039	5.87
5.88	1.32	.39	.019	-.144	-.168	-.096	.074	-.161	.065	1.15	-.59	.003	.161	-.162	-.065	-.006	.010	-.040	5.88
5.89	1.32	.95	.017	-.144	-.142	-.078	.083	-.098	.075	1.15	-.57	.003	.162	-.162	-.067	-.007	.010	-.040	5.89
5.90	1.32	1.29	.017	-.143	-.122	-.059	.092	-.036	.080	1.15	-.55	.003	.163	-.163	-.067	-.007	.010	-.040	5.90
5.91	1.33	1.40	.014	-.142	-.114	-.057	.095	-.009	.081	1.15	-.59	.003	.166	-.165	-.064	-.003	.014	-.040	5.91
5.92	1.33	1.23	.014	-.141	-.107	-.057	.099	.010	.078	1.15	-.59	.004	.168	-.165	-.061	-.004	.011	-.041	5.92
5.93	1.33	.95	.011	-.139	-.112	-.062	.094	.020	.075	1.15	-.58	.004	.167	-.164	-.064	-.005	.013	-.041	5.93
5.94	1.33	.56	.011	-.137	-.124	-.075	.086	-.015	.066	1.15	-.57	.004	.167	-.165	-.064	-.005	.012	-.041	5.94
5.95	1.33	.15	.009	-.134	-.127	-.091	.075	-.075	.058	1.15	-.57	.003	.167	-.164	-.064	-.007	.013	-.041	5.95
5.96	1.33	-.41	.009	-.132	-.154	-.111	.061	-.150	.050	1.15	-.57	.003	.168	-.164	-.064	-.014	.006	-.044	5.96
5.97	1.33	-.67	.009	-.132	-.158	-.124	.051	-.191	.041	1.15	-.56	.004	.167	-.161	-.063	-.005	.013	-.038	5.97
5.98	1.33	-.89	.010	-.133	-.179	-.136	.044	-.226	.038	1.15	-.57	.004	.168	-.162	-.062	-.009	.013	-.040	5.98
5.99	1.33	-.94	.011	-.133	-.183	-.141	.038	-.244	.037	1.15	-.59	.004	.166	-.161	-.064	-.011	.012	-.039	5.99
6.00	1.33	-.93	.009	-.137	-.186	-.146	.045	-.244	.038	1.15	-.58	.005	.166	-.161	-.063	-.009	.012	-.039	6.00
6.01	1.33	-.71	.009	-.138	-.181	-.151	.041	-.238	.046	1.15	-.58	.006	.165	-.160	-.066	-.009	.011	-.040	6.01
6.02	1.33	-.45	.011	-.141	-.174	-.141	.050	-.220	.051	1.15	-.54	.009	.166	-.162	-.066	-.009	.013	-.040	6.02
6.03	1.33	-.04	.009	-.143	-.172	-.124	.062	-.193	.059	1.15	-.57	.006	.166	-.161	-.065	-.008	.013	-.039	6.03
6.04	1.33	.29	.007	-.140	-.162	-.106	.072	-.169	.067	1.15	-.08	.006	.166	-.163	-.063	-.009	.016	-.021	6.04
6.05	1.33	.48	.011	-.141	-.149	-.094	.080	-.146	.077	1.16	.22	.006	.166	-.163	-.064	-.011	.043	-.011	6.05
6.06	1.33	.68	.012	-.141	-.143	-.088	.085	-.133	.087	1.16	.78	.007	.167	-.168	-.069	-.009	.075	-.001	

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III									Model IV										
t_{sec}	M	α_{deg}	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α_{deg}	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t_{sec}
6.20	1.34	.22	.005	-.134	-.144	-.107	.056	-.168	.059	1.16	-.98	.009	.167	-.147	-.058	-.011	-.012	-.054	6.20
6.21	1.34	.40	.006	-.135	-.138	-.102	.063	-.156	.067	1.16	-.59	.010	.166	-.148	-.059	-.011	.016	-.051	6.21
6.22	1.34	.52	.003	-.134	-.137	-.098	.068	-.148	.075	1.16	-.30	.010	.165	-.151	-.057	-.010	.036	-.039	6.22
6.23	1.34	.54	.005	-.134	-.136	-.092	.070	-.145	.077	1.16	-.00	.010	.164	-.154	-.062	-.011	.050	-.024	6.23
6.24	1.35	.54	.003	-.136	-.142	-.088	.072	-.143	.079	1.16	.20	.012	.165	-.158	-.064	-.012	.060	-.012	6.24
6.25	1.35	.44	.003	-.135	-.142	-.089	.071	-.146	.078	1.17	.28	.011	.165	-.162	-.069	-.012	.064	-.005	6.25
6.26	1.35	.29	.003	-.136	-.148	-.092	.069	-.151	.074	1.17	.26	.012	.164	-.165	-.070	-.012	.062	-.003	6.26
6.27	1.35	.17	.002	-.136	-.152	-.097	.065	-.156	.072	1.17	.13	.012	.163	-.167	-.077	-.012	.053	-.004	6.27
6.28	1.35	.19	.049	-.135	-.155	-.101	.062	-.164	.067	1.17	-.12	.013	.164	-.168	-.078	-.012	.041	-.009	6.28
6.29	1.35	.13	.002	-.134	-.159	-.105	.058	-.173	.061	1.17	-.40	.012	.161	-.168	-.080	-.015	.026	-.022	6.29
6.30	1.35	-.27	.001	-.134	-.163	-.112	.055	-.183	.055	1.17	-.63	.012	.162	-.167	-.081	-.014	.012	-.034	6.30
6.31	1.35	-.28	.001	-.134	-.163	-.119	.050	-.190	.052	1.17	-.88	.011	.165	-.167	-.074	-.011	.005	-.040	6.31
6.32	1.35	-.26	.002	-.133	-.165	-.120	.047	-.195	.056	1.17	-1.04	.012	.164	-.164	-.073	-.012	-.001	-.044	6.32
6.33	1.35	-.29	.000	-.133	-.160	-.119	.045	-.196	.053	1.17	-1.17	.012	.164	-.162	-.074	-.012	-.005	-.045	6.33
6.34	1.35	-.18	-.001	-.133	-.155	-.117	.044	-.191	.051	1.17	-1.18	.013	.166	-.159	-.070	-.012	-.004	-.046	6.34
6.35	1.35	-.08	.001	-.132	-.153	-.110	.044	-.181	.053	1.17	-1.15	.012	.164	-.156	-.069	-.013	-.000	-.048	6.35
6.36	1.35	.01	-.001	-.133	-.144	-.106	.050	-.169	.053	1.17	-1.05	.012	.164	-.153	-.068	-.013	.003	-.048	6.36
6.37	1.35	.09	.001	-.133	-.142	-.098	.050	-.156	.058	1.17	-.82	.012	.164	-.150	-.064	-.015	.009	-.045	6.37
6.38	1.35	.23	-.002	-.132	-.139	-.092	.052	-.148	.061	1.17	-.64	.012	.163	-.149	-.064	-.016	.020	-.040	6.38
6.39	1.35	.31	-.001	-.131	-.137	-.090	.054	-.144	.059	1.17	-.44	.014	.163	-.149	-.062	-.016	.027	-.036	6.39
6.40	1.36	.28	.001	-.131	-.136	-.088	.057	-.149	.059	1.17	-.25	.013	.163	-.147	-.060	-.014	.025	-.034	6.40
6.41	1.36	.32	.001	-.132	-.131	-.091	.059	-.149	.066	1.17	-.19	.014	.163	-.149	-.060	-.011	.031	-.030	6.41
6.42	1.36	.29	-.001	-.132	-.134	-.094	.059	-.156	.061	1.17	.08	.013	.162	-.150	-.063	-.017	.035	-.028	6.42
6.43	1.36	.23	.000	-.132	-.136	-.100	.058	-.164	.063	1.17	-.11	.014	.162	-.152	-.064	-.017	.039	-.027	6.43
6.44	1.36	.15	.001	-.132	-.139	-.104	.056	-.173	.065	1.17	-.18	.014	.161	-.153	-.065	-.017	.038	-.028	6.44
6.45	1.36	.05	.002	-.133	-.144	-.106	.055	-.177	.062	1.17	-.28	.012	.161	-.152	-.067	-.015	.034	-.032	6.45
6.46	1.36	-.02	-.002	-.134	-.151	-.106	.053	-.181	.060	1.18	-.46	.015	.161	-.154	-.072	-.017	.027	-.035	6.46
6.47	1.36	-.05	-.002	-.134	-.152	-.109	.052	-.182	.060	1.18	-.61	.015	.162	-.157	-.075	-.018	.019	-.039	6.47
6.48	1.36	-.07	-.003	-.134	-.156	-.109	.051	-.184	.060	1.18	-.76	.014	.158	-.157	-.077	-.019	.014	-.042	6.48
6.49	1.36	-.07	-.004	-.134	-.157	-.109	.050	-.182	.061	1.18	-.85	.015	.162	-.157	-.080	-.019	.009	-.040	6.49
6.50	1.36	-.04	-.002	-.133	-.156	-.107	.049	-.180	.059	1.18	-.91	.015	.160	-.157	-.081	-.019	.006	-.042	6.50
6.51	1.36	.01	-.003	-.133	-.157	-.105	.049	-.176	.058	1.18	-.95	.012	.161	-.161	-.081	-.019	.005	-.042	6.51
6.52	1.36	.05	-.004	-.135	-.155	-.104	.050	-.171	.055	1.18	-.92	.014	.161	-.158	-.079	-.018	.004	-.042	6.52
6.53	1.36	.06	-.003	-.134	-.153	-.098	.050	-.166	.055	1.18	-.88	.014	.159	-.158	-.080	-.018	.007	-.040	6.53
6.54	1.36	.09	-.002	-.135	-.151	-.097	.050	-.164	.055	1.18	-.75	.013	.159	-.158	-.076	-.019	.009	-.038	6.54
6.55	1.36	.12	-.006	-.134	-.151	-.097	.049	-.167	.055	1.18	-.65	.013	.160	-.156	-.076	-.017	.013	-.036	6.55
6.56	1.36	.12	-.003	-.134	-.146	-.093	.050	-.161	.052	1.18	-.51	.014	.160	-.155	-.076	-.020	.017	-.035	6.56
6.57	1.37	.13	-.004	-.135	-.143	-.090	.051	-.157	.052	1.18	-.39	.014	.160	-.153	-.073	-.019	.024	-.032	6.57
6.58	1.37	.08	-.005	-.134	-.142	-.092	.050	-.162	.053	1.18	-.33	.014	.158	-.153	-.073	-.020	.027	-.033	6.58
6.59	1.37	.08	-.005	-.133	-.141	-.090	.051	-.161	.050	1.18	-.31	.015	.160	-.152	-.075	-.021	.030	-.031	6.59
6.60	1.37	.07	-.002	-.133	-.140	-.087	.052	-.161	.056	1.18	-.28	.014	.159	-.151	-.074	-.021	.032	-.032	6.60
6.61	1.37	.10	-.004	-.134	-.139	-.090	.051	-.162	.051	1.18	-.30	.013	.158	-.151	-.072	-.022	.021	-.037	6.61
6.62	1.37	.06	-.004	-.134	-.141	-.090	.049	-.164	.051	1.18	-.39	.015	.159	-.148	-.069	-.021	.030	-.037	6.62
6.63	1.37	.04	-.004	-.132	-.143	-.090	.053	-.164	.051	1.18	-.37	.015	.157	-.148	-.071	-.022	.027	-.038	6.63
6.64	1.37	.04	-.004	-.131	-.142	-.092	.052	-.165	.049	1.18	-.13	.015	.157	-.147	-.072	-.023	.024	-.037	6.64
6.65	1.37	.04	-.007	-.134	-.145	-.089	.052	-.168	.050	1.18	-.78	.015	.157	-.146	-.071	-.025	.021	-.038	6.65
6.66	1.37	.07	-.005	-.133	-.147	-.093	.054	-.168	.051	1.19	-.74	.014	.153	-.147	-.072	-.027	.015	-.040	6.66
6.67	1.37	.08	-.007	-.134	-.144	-.094	.052	-.173	.049	1.19	-.79	.014	.154	-.146	-.072	-.027	.012	-.042	6.67
6.68	1.37	.06	-.007	-.134	-.145	-.095	.052	-.175	.051	1.19	-.80	.014	.154	-.148	-.075	-.027	.006	-.039	6.68
6.69	1.37	.07	-.007	-.133	-.146	-.094	.054	-.174	.050	1.19	-.80	.014	.152	-.149	-.077	-.026	.012	-.040	6.69
6.70	1.37	.12	-.006	-.133	-.148	-.099	.051	-.174	.051	1.19	-.75	.015	.157	-.150	-.078	-.027	.011	-.041	6.70
6.71	1.37	.10	-.007	-.133	-.148	-.100	.050	-.174	.052	1.19	-.73	.015	.154	-.152	-.078	-.026	.013	-.039	6.71
6.72	1.37	.11	-.009	-.133	-.146	-.097	.049	-.172	.052	1.19	-.66	.014	.154	-.151	-.079	-.026	.015	-.034	6.72
6.73	1.38	.10	-.008	-.134	-.144	-.096	.049	-.169	.051	1.19	-.61	.014	.154	-.154	-.082	-.027	.018	-.035	6.73
6.74	1.38	.10	-.007	-.132	-.147	-.096	.048	-.167	.051	1.19	-.53	.014	.155	-.153	-.082	-.025	.022	-.032	6.74
6.75	1.38	.10	-.009	-.133	-.145	-.095	.047	-.164	.051	1.19	-.47	.013	.153	-.154	-.082	-.025	.025	-.032	6.75
6.76	1.38	.10	-.010	-.133	-.143	-.095	.045	-.165	.050	1.19	-.47	.013	.153	-.154	-.082	-.025	.028	-.034	6.76
6.77	1.38	.11	-.009	-.133	-.144	-.099	.043	-.162	.049	1.19	-.42	.013	.154	-.154	-.081	-.028	.028	-.032	6.77
6.78	1.38	.11	-.012	-.132	-.143	-.094	.043	-.164	.051	1.19	-.42	.013	.153	-.153	-.081	-.028	.028	-.032	6.78
6.79	1.38	.09	-.011	-.131	-.143	-.095	.043	-.163	.050	1.19	-.48	.012	.153	-.153	-.081	-.026	.027	-.033	6.79
6.80	1.38	.07	-.009	-.132	-.142	-.089	.045	-.164	.048	1.19	-.52	.013	.152	-.149	-.080	-.025	.025	-.032	6.80
6.81	1.38	.08	-.011	-.133	-.143	-.089	.044	-.161	.048	1.19	-.58	.013	.153	-.152	-.079	-.027	.021	-.034	6.81
6.82	1.38	.07	-.010	-.132	-.142	-.089	.044	-.161	.047	1.19	-.61	.013	.153	-.148	-.078	-.027	.020	-.035	6.82
6.83	1.38	.09	-.012	-.132	-.144	-.086	.047	-.162	.048	1.19	-.65	.010	.151	-.147	-.079	-.027	.019	-.037	6.83
6.84	1.38	.11	-.014	-.132	-.141	-.086	.048	-.164	.048	1.19	-.71	.013	.152	-.147	-.076	-.026	.017	-.036	6.84
6.85	1.38	.11	-.014	-.133	-.142	-.084	.048	-.164	.047	1.19	-.72	.013	.152	-.144	-.076	-.028	.016	-.036	6.85
6.86	1.38	.13	-.015	-.132	-.140	-.085	.050	-.165	.047	1.20	-.76	.012	.151	-.144	-.076	-.028			

TABLE III. - Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
$t, \text{sec.}$	M	$\alpha, \text{deg.}$	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	$\alpha, \text{deg.}$	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	$t, \text{sec.}$
7.00	1.39	.11	-.021	-.132	-.139	-.086	.044	-.171	.045	1.20	-.63	.014	.151	-.149	-.087	-.030	.020	-.030	7.00
7.01	1.39	.13	-.021	-.132	-.135	-.085	.043	-.168	.045	1.20	-.66	.016	.149	-.149	-.081	-.030	.019	-.039	7.01
7.02	1.39	.15	-.020	-.132	-.136	-.080	.043	-.160	.046	1.20	-.74	.015	.150	-.145	-.075	-.030	.020	-.038	7.02
7.03	1.39	.15	-.021	-.133	-.136	-.077	.044	-.153	.044	1.20	-.90	.015	.149	-.126	-.047	-.030	.020	-.038	7.03
7.04	1.39	.17	-.022	-.132	-.138	-.077	.048	-.154	.046	1.20	-1.20	.015	.149	-.121	-.029	-.030	.020	-.050	7.04
7.05	1.39	.16	-.022	-.132	-.134	-.071	.048	-.156	.044	1.20	-1.66	.013	.149	-.113	-.022	-.030	.007	-.060	7.05
7.06	1.39	.15	-.024	-.133	-.134	-.074	.051	-.158	.044	1.20	-2.03	.010	.148	-.117	-.039	-.030	-.016	-.072	7.06
7.07	1.39	.15	-.024	-.132	-.136	-.069	.053	-.159	.044	1.21	-2.18	.006	.148	-.136	-.074	-.030	-.035	-.079	7.07
7.08	1.39	.15	-.024	-.133	-.137	-.071	.053	-.158	.045	1.21	-2.13	.006	.148	-.142	-.085	-.032	-.040	-.080	7.08
7.09	1.39	.16	-.023	-.132	-.137	-.074	.052	-.158	.042	1.21	-1.84	.004	.148	-.143	-.085	-.028	-.036	-.074	7.09
7.10	1.40	.15	-.024	-.132	-.138	-.075	.053	-.160	.044	1.21	-1.56	.003	.148	-.147	-.090	-.031	-.028	-.064	7.10
7.11	1.40	.16	-.023	-.131	-.141	-.077	.051	-.162	.044	1.21	-1.05	.002	.147	-.151	-.089	-.030	-.010	-.050	7.11
7.12	1.40	.16	-.024	-.133	-.137	-.079	.050	-.163	.044	1.21	-.52	.005	.148	-.152	-.088	-.030	.006	-.038	7.12
7.13	1.40	.12	-.024	-.133	-.138	-.081	.050	-.164	.044	1.21	-.07	.003	.147	-.154	-.088	-.029	.027	-.026	7.13
7.14	1.40	.17	-.024	-.133	-.143	-.083	.048	-.166	.044	1.21	.29	.004	.147	-.157	-.088	-.031	.046	-.017	7.14
7.15	1.40	.17	-.026	-.133	-.143	-.085	.047	-.167	.042	1.21	.56	.009	.146	-.154	-.085	-.029	.063	-.003	7.15
7.16	1.40	.16	-.025	-.133	-.139	-.086	.046	-.168	.045	1.21	.60	.009	.146	-.154	-.083	-.029	.075	.002	7.16
7.17	1.40	.16	-.025	-.133	-.139	-.087	.045	-.170	.044	1.21	.52	.012	.145	-.153	-.081	-.030	.078	.000	7.17
7.18	1.40	.18	-.026	-.134	-.138	-.087	.044	-.169	.045	1.21	.25	.014	.146	-.149	-.078	-.030	.070	.000	7.18
7.19	1.40	.17	-.023	-.133	-.138	-.086	.045	-.171	.045	1.21	-.08	.014	.145	-.148	-.079	-.029	.068	-.019	7.19
7.20	1.40	.17	-.021	-.131	-.138	-.097	.044	-.173	.047	1.21	-.39	.015	.146	-.144	-.077	-.029	.045	-.028	7.20
7.21	1.40	.19	-.020	-.131	-.140	-.086	.044	-.175	.047	1.21	-.81	.016	.146	-.140	-.077	-.030	.028	-.038	7.21
7.22	1.40	.19	-.023	-.131	-.136	-.088	.042	-.172	.046	1.21	-1.12	.016	.145	-.138	-.075	-.028	.014	-.046	7.22
7.23	1.40	.21	-.022	-.132	-.134	-.087	.042	-.176	.046	1.21	-1.35	.015	.145	-.134	-.075	-.028	.001	-.056	7.23
7.24	1.40	.19	-.024	-.132	-.135	-.085	.044	-.169	.044	1.21	-1.43	.015	.146	-.131	-.072	-.028	-.006	-.060	7.24
7.25	1.40	.21	-.026	-.132	-.134	-.082	.043	-.169	.044	1.21	-1.41	.012	.145	-.130	-.075	-.029	-.009	-.060	7.25
7.26	1.40	.19	-.027	-.133	-.133	-.082	.043	-.168	.045	1.21	-1.34	.010	.145	-.132	-.075	-.029	-.009	-.060	7.26
7.27	1.40	.21	-.029	-.133	-.134	-.080	.046	-.168	.043	1.22	-1.13	.010	.143	-.134	-.078	-.032	-.004	-.054	7.27
7.28	1.40	.24	-.031	-.134	-.133	-.062	.045	-.166	.043	1.22	-.86	.011	.143	-.136	-.079	-.031	.003	-.047	7.28
7.29	1.40	.21	-.033	-.135	-.136	-.078	.045	-.163	.042	1.22	-.54	.009	.142	-.140	-.083	-.036	.011	-.039	7.29
7.30	1.41	.19	-.036	-.135	-.136	-.079	.045	-.161	.041	1.22	-.31	.009	.143	-.143	-.083	-.039	.025	-.029	7.30
7.31	1.41	.26	-.038	-.135	-.138	-.074	.046	-.154	.040	1.22	-.21	.006	.144	-.149	-.086	-.036	.034	-.024	7.31
7.32	1.41	.21	-.041	-.135	-.137	-.068	.045	-.150	.038	1.22	-.04	.008	.143	-.152	-.090	-.040	.043	-.022	7.32
7.33	1.41	.23	-.045	-.136	-.137	-.067	.045	-.142	.034	1.22	-.01	.006	.145	-.155	-.093	-.043	.049	-.020	7.33
7.34	1.41	.24	-.049	-.136	-.136	-.062	.045	-.130	.032	1.22	-.05	.008	.144	-.155	-.097	-.045	.050	-.017	7.34
7.35	1.41	.25	-.053	-.136	-.132	-.058	.045	-.119	.028	1.22	-.20	.008	.142	-.155	-.100	-.046	.047	-.019	7.35
7.36	1.41	.26	-.058	-.135	-.133	-.053	.043	-.103	.025	1.22	-.35	.006	.142	-.155	-.100	-.046	.040	-.021	7.36
7.37	1.41	.26	-.061	-.137	-.125	-.044	.042	-.088	.022	1.22	-.50	.005	.142	-.153	-.100	-.047	.034	-.028	7.37
7.38	1.41	.28	-.068	-.137	-.119	-.044	.040	-.081	.020	1.22	-.74	.005	.142	-.151	-.098	-.046	.026	-.030	7.38
7.39	1.41	.29	-.063	-.136	-.116	-.036	.036	-.071	.013	1.22	-.89	.003	.141	-.150	-.098	-.047	.017	-.034	7.39
7.40	1.41	.30	-.080	-.136	-.106	-.028	.035	-.063	.010	1.22	-.98	.005	.142	-.144	-.094	-.044	.011	-.040	7.40
7.41	1.41	.34	-.087	-.137	-.097	-.018	.028	-.055	.012	1.22	-1.01	.004	.139	-.140	-.088	-.043	.009	-.046	7.41
7.42	1.41	.33	-.095	-.135	-.085	-.012	.029	-.054	.007	1.22	-1.00	.006	.140	-.136	-.086	-.042	.007	-.047	7.42
7.43	1.41	.35	-.105	-.136	-.074	-.007	.025	-.052	.009	1.22	-.93	.006	.140	-.134	-.084	-.039	.007	-.049	7.43
7.44	1.41	.37	-.114	-.136	-.062	-.005	.018	-.055	.011	1.22	-.81	.003	.140	-.132	-.081	-.037	.009	-.045	7.44
7.45	1.41	.41	-.129	-.137	-.054	-.013	.009	-.062	-.002	1.22	-.66	.003	.139	-.130	-.082	-.033	.015	-.042	7.45
7.46	1.41	.41	-.138	-.135	-.051	-.018	.005	-.074	-.012	1.22	-.49	.001	.139	-.131	-.081	-.031	.018	-.038	7.46
7.47	1.41	.70	-.146	-.135	-.051	-.020	.003	-.083	-.018	1.23	-.41	.001	.140	-.129	-.081	-.033	.026	-.033	7.47
7.48	1.41	.27	-.152	-.134	-.054	-.024	.002	-.094	-.024	1.23	-.33	.000	.139	-.133	-.084	-.032	.031	-.031	7.48
7.49	1.41	.25	-.151	-.135	-.058	-.034	-.003	-.107	-.029	1.23	-.29	.000	.139	-.137	-.087	-.033	.036	-.032	7.49
7.50	1.41	.27	-.141	-.133	-.056	-.040	-.012	-.120	-.044	1.23	-.28	.001	.138	-.138	-.090	-.034	.036	-.030	7.50
7.51	1.41	.36	-.115	-.132	-.074	-.053	-.028	-.133	-.062	1.23	-.37	.003	.138	-.140	-.092	-.038	.037	-.028	7.51
7.52	1.41	.35	-.089	-.133	-.075	-.070	-.044	-.147	-.081	1.23	-.47	.003	.137	-.144	-.098	-.041	.033	-.029	7.52
7.53	1.41	.76	-.069	-.136	-.081	-.080	-.053	-.150	-.095	1.23	-.59	.005	.139	-.146	-.101	-.047	.030	-.029	7.53
7.54	1.41	1.07	-.064	-.138	-.087	-.090	-.058	-.155	-.104	1.23	-.69	.009	.138	-.146	-.102	-.050	.026	-.031	7.54
7.55	1.41	1.43	-.064	-.143	-.093	-.095	-.071	-.154	-.108	1.23	-.78	.011	.136	-.148	-.106	-.055	.020	-.034	7.55
7.56	1.40	1.91	-.068	-.149	-.101	-.097	-.080	-.151	-.107	1.23	-.87	.011	.136	-.147	-.108	-.054	.017	-.036	7.56
7.57	1.40	2.40	-.077	-.154	-.098	-.100	-.087	-.148	-.101	1.23	-.86	.009	.136	-.146	-.104	-.056	.012	-.038	7.57
7.58	1.40	2.77	-.087	-.162	-.101	-.102	-.087	-.147	-.095	1.23	-.87	.006	.136	-.146	-.101	-.055	.013	-.038	7.58
7.59	1.40	3.06	-.103	-.166	-.108	-.102	-.084	-.153	-.093	1.23	-.82	-.006	.137	-.144	-.104	-.055	.012	-.037	7.59
7.60	1.40	3.27	-.111	-.167	-.117	-.101	-.068	-.157	-.090	1.23	-.72	-.001	.137	-.142	-.103	-.053	.014	-.037	7.60
7.61	1.40	3.24	-.132	-.169	-.128	-.096	-.051	-.164	-.094	1.23	-.68	-.006	.136	-.139	-.102	-.052	.017	-.040	7.61
7.62	1.40	3.15	-.144	-.171	-.137	-.098	-.044	-.174	-.098	1.23	-.57	-.006	.135	-.138	-.099	-.049	.021	-.038	7.62
7.63	1.40	2.92	-.146	-.169	-.140	-.106	-.042	-.183	-.106	1.23	-.49	-.006	.136	-.135	-.095	-.046	.026	-.034	7.63
7.64	1.40	2.55	-.151	-.167	-.155	-.113	-.048	-.192	-.120	1.24	-.41	-.007	.135	-.134	-.093	-.043	.028	-.037	7.64
7.65	1.40	2.20	-.151	-.162	-.162	-.119	-.053	-.201	-.131	1.24	-.42	-.005	.135	-.133	-.091	-.043	.031	-.037	7.65
7.66	1.39	1.93	-.14																

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t_{sec}	M	α_{deg}	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α_{deg}	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t_{sec}
7.80	1.38	2.27	-1.132	-1.165	-1.143	-1.117	-0.883	-1.188	-1.118	1.25	-5.1	-0.012	.133	-.138	-.110	-.057	.027	-.028	7.80
7.81	1.38	1.75	-1.132	-1.158	-1.165	-1.135	-0.091	-1.191	-1.138	1.25	-4.9	-0.013	.131	-.139	-.110	-.057	.027	-.035	7.81
7.82	1.38	1.39	-1.133	-1.153	-1.184	-1.148	-0.093	-.210	-1.149	1.25	-4.7	-0.012	.131	-.136	-.107	-.055	.029	-.036	7.82
7.83	1.38	1.08	-1.133	-1.149	-.201	-1.160	-0.097	-.224	-1.170	1.25	-4.5	-0.013	.130	-.135	-.104	-.054	.030	-.035	7.83
7.84	1.38	1.04	-1.134	-1.147	-2.05	-1.164	-0.099	-.231	-1.176	1.25	-4.7	-0.014	.130	-.133	-.103	-.053	.029	-.036	7.84
7.85	1.38	1.22	-1.132	-1.148	-2.09	-1.165	-0.099	-.218	-1.181	1.25	-5.0	-0.013	.130	-.132	-.100	-.049	.030	-.038	7.85
7.86	1.38	1.53	-1.131	-1.150	-2.03	-1.162	-0.096	-.215	-1.179	1.25	-5.6	-0.013	.130	-.129	-.101	-.050	.027	-.037	7.86
7.87	1.38	1.80	-1.127	-1.155	-1.95	-1.154	-0.094	-.210	-1.170	1.25	-6.3	-0.014	.129	-.127	-.100	-.050	.026	-.037	7.87
7.88	1.38	2.25	-1.123	-1.160	-1.78	-1.144	-0.086	-.191	-1.160	1.25	-6.6	-0.013	.129	-.126	-.101	-.048	.023	-.041	7.88
7.89	1.38	2.62	-1.121	-1.166	-1.65	-1.129	-0.081	-.184	-1.144	1.25	-6.9	-0.013	.130	-.125	-.101	-.049	.021	-.044	7.89
7.90	1.37	2.98	-1.119	-1.171	-1.48	-1.125	-0.074	-.167	-1.119	1.25	-7.0	-0.013	.128	-.125	-.101	-.048	.021	-.045	7.90
7.91	1.37	3.11	-1.117	-1.175	-1.40	-1.113	-0.071	-.152	-1.104	1.25	-7.4	-0.014	.128	-.125	-.101	-.052	.021	-.045	7.91
7.92	1.37	3.13	-1.118	-1.177	-1.37	-1.106	-0.072	-.154	-0.996	1.25	-7.7	-0.013	.130	-.127	-.099	-.048	.021	-.045	7.92
7.93	1.37	3.04	-1.119	-1.178	-1.38	-1.109	-0.074	-.154	-0.995	1.25	-8.6	-0.013	.130	-.129	-.102	-.048	.021	-.045	7.93
7.94	1.37	2.83	-1.120	-1.176	-1.37	-1.110	-0.080	-.167	-0.997	1.25	-6.8	-0.013	.131	-.127	-.102	-.050	.022	-.043	7.94
7.95	1.37	2.56	-1.122	-1.170	-1.47	-1.120	-0.087	-.179	-1.009	1.26	-6.7	-0.010	.130	-.131	-.104	-.052	.022	-.040	7.95
7.96	1.37	2.25	-1.124	-1.166	-1.52	-1.121	-0.093	-.191	-1.128	1.26	-6.2	-0.009	.128	-.133	-.105	-.055	.025	-.039	7.96
7.97	1.37	1.96	-1.128	-1.161	-1.63	-1.137	-0.094	-.203	-1.141	1.26	-5.8	-0.007	.128	-.133	-.108	-.055	.026	-.036	7.97
7.98	1.37	1.76	-1.129	-1.157	-1.74	-1.142	-0.098	-.211	-1.153	1.26	-5.7	-0.005	.130	-.132	-.108	-.056	.027	-.035	7.98
7.99	1.37	1.62	-1.132	-1.155	-1.84	-1.148	-0.097	-.218	-1.161	1.26	-5.5	-0.005	.130	-.132	-.110	-.054	.028	-.035	7.99
8.00	1.37	1.54	-1.130	-1.151	-1.90	-1.149	-0.093	-.214	-1.166	1.26	-5.4	-0.005	.130	-.133	-.111	-.054	.028	-.035	8.00
8.01	1.37	1.60	-1.129	-1.149	-1.94	-1.147	-0.090	-.219	-1.170	1.26	-5.6	-0.004	.129	-.133	-.109	-.055	.027	-.035	8.01
8.02	1.36	1.75	-1.129	-1.150	-1.89	-1.146	-0.087	-.216	-1.168	1.26	-5.5	-0.003	.130	-.133	-.108	-.056	.026	-.035	8.02
8.03	1.36	1.92	-1.129	-1.153	-1.85	-1.141	-0.080	-.213	-1.166	1.26	-6.1	-0.003	.127	-.131	-.108	-.055	.025	-.035	8.03
8.04	1.36	2.15	-1.131	-1.155	-1.77	-1.135	-0.074	-.208	-1.157	1.26	-6.1	-0.003	.129	-.130	-.106	-.055	.026	-.035	8.04
8.05	1.36	2.38	-1.131	-1.159	-1.74	-1.129	-0.070	-.197	-1.153	1.26	-6.2	-0.005	.128	-.127	-.105	-.056	.025	-.036	8.05
8.06	1.36	2.65	-1.133	-1.164	-1.69	-1.123	-0.067	-.194	-1.148	1.26	-6.1	-0.007	.127	-.127	-.104	-.056	.024	-.037	8.06
8.07	1.36	2.62	-1.134	-1.166	-1.61	-1.119	-0.065	-.193	-1.136	1.26	-6.3	-0.007	.127	-.126	-.103	-.056	.023	-.037	8.07
8.08	1.36	2.62	-1.136	-1.165	-1.58	-1.123	-0.062	-.194	-1.129	1.26	-6.2	-0.009	.127	-.123	-.103	-.054	.024	-.036	8.08
8.09	1.36	2.64	-1.137	-1.166	-1.64	-1.123	-0.063	-.196	-1.126	1.26	-6.3	-0.012	.125	-.124	-.102	-.055	.023	-.040	8.09
8.10	1.36	2.67	-1.143	-1.166	-1.57	-1.135	-0.065	-.189	-1.134	1.26	-6.2	-0.012	.126	-.123	-.103	-.054	.023	-.040	8.10
8.11	1.36	2.49	-1.144	-1.164	-1.64	-1.134	-0.066	-.194	-1.139	1.27	-6.4	-0.015	.127	-.123	-.101	-.052	.023	-.040	8.11
8.12	1.36	2.34	-1.147	-1.161	-1.70	-1.143	-0.061	-.197	-1.144	1.27	-6.1	-0.015	.126	-.123	-.103	-.054	.025	-.042	8.12
8.13	1.36	2.19	-1.152	-1.159	-1.82	-1.144	-0.059	-.203	-1.152	1.27	-6.1	-0.016	.125	-.124	-.103	-.054	.024	-.041	8.13
8.14	1.36	1.93	-1.155	-1.156	-1.88	-1.145	-0.057	-.205	-1.159	1.27	-5.7	-0.015	.125	-.125	-.102	-.055	.025	-.039	8.14
8.15	1.35	1.83	-1.159	-1.154	-1.85	-1.146	-0.057	-.201	-1.165	1.27	-5.8	-0.016	.125	-.123	-.105	-.057	.026	-.039	8.15
8.16	1.35	1.76	-1.160	-1.153	-1.95	-1.147	-0.055	-.207	-1.165	1.27	-6.1	-0.015	.124	-.126	-.105	-.057	.025	-.037	8.16
8.17	1.35	1.70	-1.164	-1.151	-1.96	-1.148	-0.055	-.205	-1.171	1.27	-6.1	-0.017	.125	-.126	-.107	-.059	.026	-.038	8.17
8.18	1.35	1.78	-1.167	-1.150	-1.96	-1.143	-0.050	-.203	-1.168	1.27	-6.0	-0.015	.126	-.126	-.108	-.061	.025	-.039	8.18
8.19	1.35	1.82	-1.169	-1.151	-1.98	-1.138	-0.047	-.203	-1.165	1.27	-6.3	-0.016	.124	-.128	-.110	-.061	.024	-.039	8.19
8.20	1.35	1.78	-1.166	-1.151	-1.99	-1.126	-0.023	-.205	-1.155	1.27	-6.0	-0.016	.124	-.127	-.111	-.061	.025	-.039	8.20
8.21	1.35	1.89	-1.169	-1.154	-1.99	-1.125	-0.029	-.208	-1.150	1.27	-6.1	-0.015	.123	-.127	-.112	-.061	.024	-.038	8.21
8.22	1.35	1.99	-1.173	-1.157	-1.95	-1.120	-0.020	-.205	-1.137	1.27	-6.2	-0.014	.124	-.127	-.112	-.061	.024	-.038	8.22
8.23	1.35	2.06	-1.176	-1.158	-1.92	-1.116	-0.016	-.204	-1.131	1.27	-6.1	-0.016	.122	-.127	-.111	-.062	.024	-.038	8.23
8.24	1.35	2.10	-1.176	-1.159	-1.91	-1.116	-0.013	-.206	-1.128	1.27	-6.3	-0.015	.122	-.125	-.110	-.061	.024	-.039	8.24
8.25	1.35	2.07	-1.179	-1.159	-1.90	-1.111	-0.009	-.211	-1.125	1.27	-6.3	-0.017	.122	-.125	-.110	-.061	.024	-.039	8.25
8.26	1.35	2.02	-1.179	-1.160	-1.89	-1.114	-0.008	-.209	-1.123	1.27	-6.0	-0.017	.122	-.125	-.109	-.062	.024	-.039	8.26
8.27	1.34	1.99	-1.178	-1.158	-1.88	-1.113	-0.009	-.209	-1.123	1.27	-5.7	-0.017	.121	-.123	-.107	-.061	.023	-.040	8.27
8.28	1.34	1.94	-1.181	-1.158	-1.90	-1.112	-0.010	-.210	-1.121	1.28	-5.7	-0.017	.121	-.121	-.107	-.061	.023	-.040	8.28
8.29	1.34	1.87	-1.184	-1.156	-1.88	-1.116	-0.000	-.208	-1.120	1.28	-5.7	-0.017	.120	-.120	-.107	-.061	.024	-.040	8.29
8.30	1.34	1.74	-1.183	-1.155	-1.98	-1.113	-0.009	-.210	-1.126	1.28	-5.8	-0.018	.119	-.120	-.105	-.060	.024	-.040	8.30
8.31	1.34	1.71	-1.185	-1.156	-2.01	-1.117	-0.007	-.213	-1.128	1.28	-6.2	-0.021	.123	-.123	-.102	-.058	.024	-.041	8.31
8.32	1.34	1.66	-1.184	-1.154	-2.08	-1.117	-0.003	-.211	-1.125	1.28	-6.1	-0.022	.123	-.120	-.103	-.059	.024	-.040	8.32
8.33	1.34	1.63	-1.187	-1.154	-2.07	-1.122	-0.007	-.214	-1.130	1.28	-5.9	-0.019	.123	-.120	-.102	-.057	.024	-.041	8.33
8.34	1.34	1.62	-1.186	-1.155	-2.01	-1.119	-0.007	-.215	-1.127	1.28	-6.0	-0.021	.122	-.120	-.103	-.059	.024	-.041	8.34
8.35	1.34	1.63	-1.186	-1.154	-2.02	-1.119	-0.007	-.212	-1.127	1.28	-6.4	-0.023	.122	-.120	-.105	-.060	.024	-.040	8.35
8.36	1.34	1.67	-1.188	-1.155	-1.98	-1.115	-0.005	-.214	-1.126	1.28	-6.4	-0.019	.121	-.122	-.105	-.060	.024	-.041	8.36
8.37	1.34	1.73	-1.185	-1.154	-1.91	-1.116	-0.000	-.210	-1.119	1.28	-6.3	-0.022	.121	-.121	-.106	-.061	.024	-.043	8.37
8.38	1.34	1.78	-1.185	-1.156	-1.99	-1.111	-0.003	-.211	-1.114	1.28	-6.3	-0.022	.119	-.122	-.108	-.061	.024	-.043	8.38
8.39	1.34	1.82	-1.186	-1.156	-1.96	-1.111	-0.003	-.208	-1.112	1.28	-6.5	-0.021	.119	-.124	-.109	-.063	.023	-.043	8.39
8.40	1.33	1.62	-1.187	-1.155	-2.07	-1.091	.014	-.219	-1.111	1.28	-6.5	-0.021	.120	-.121	-.110	-.064	.024	-.043	8.40
8.41	1.33	1.66	-1.188	-1.156	-2.12	-1.094	.012	-.222	-1.111	1.28	-6.5	-0.021	.118	-.125	-.111	-.064	.023	-.042	8.41
8.42	1.33	1.66	-1.186	-1.157	-2.09	-0.994	.014	-.222	-1.106	1.28	-6.2	-0.021	.120	-.124	-.111				

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t_{set}	M	α_{deg}	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α_{deg}	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t_{set}
8.60	1.32	1.68	-.184	-.154	-.200	-.106	.008	-.222	-.099	1.29	-.59	-.026	.114	-.120	-.110	-.065	.023	-.044	8.60
8.61	1.32	1.85	-.187	-.156	-.204	-.109	.005	-.224	-.103	1.29	-.61	-.027	.113	-.120	-.108	-.064	.024	-.044	8.61
8.62	1.32	1.61	-.185	-.155	-.202	-.108	.006	-.220	-.101	1.29	-.60	-.026	.112	-.120	-.109	-.066	.024	-.044	8.62
8.63	1.32	1.61	-.186	-.156	-.191	-.108	.003	-.223	-.097	1.29	-.62	-.026	.113	-.122	-.109	-.067	.024	-.043	8.63
8.64	1.32	1.60	-.185	-.157	-.199	-.110	.007	-.226	-.097	1.29	-.60	-.027	.112	-.121	-.109	-.066	.024	-.043	8.64
8.65	1.32	1.57	-.185	-.156	-.200	-.107	.008	-.224	-.093	1.29	-.58	-.027	.112	-.119	-.110	-.066	.025	-.043	8.65
8.66	1.32	1.60	-.185	-.155	-.205	-.104	.005	-.219	-.093	1.29	-.57	-.028	.112	-.120	-.109	-.068	.025	-.043	8.66
8.67	1.32	1.64	-.185	-.157	-.200	-.106	.007	-.219	-.094	1.29	-.58	-.029	.112	-.121	-.109	-.068	.024	-.043	8.67
8.68	1.32	1.63	-.186	-.157	-.202	-.107	.006	-.225	-.093	1.29	-.60	-.027	.114	-.118	-.108	-.066	.024	-.043	8.68
8.69	1.32	1.73	-.186	-.157	-.199	-.110	.007	-.223	-.092	1.29	-.57	-.027	.111	-.119	-.109	-.067	.024	-.043	8.69
9.70	1.31	1.74	-.185	-.156	-.205	-.110	.006	-.221	-.092	1.29	-.57	-.027	.111	-.119	-.109	-.067	.024	-.042	8.70
8.71	1.31	1.73	-.186	-.156	-.204	-.108	.005	-.222	-.088	1.29	-.62	-.028	.112	-.121	-.108	-.065	.024	-.046	8.71
8.72	1.31	1.69	-.186	-.155	-.207	-.111	.006	-.224	-.088	1.29	-.58	-.027	.113	-.120	-.107	-.066	.023	-.046	8.72
8.73	1.31	1.66	-.185	-.157	-.201	-.110	.006	-.222	-.088	1.30	-.58	-.026	.112	-.119	-.106	-.067	.025	-.047	8.73
8.74	1.31	1.67	-.187	-.157	-.200	-.108	.009	-.221	-.088	1.30	-.61	-.025	.107	-.113	-.101	-.063	.023	-.045	8.74
8.75	1.31	1.65	-.184	-.158	-.208	-.105	.006	-.224	-.088	1.30	-.58	-.025	.112	-.119	-.107	-.067	.024	-.048	8.75
8.76	1.31	1.65	-.185	-.156	-.201	-.109	.007	-.226	-.088	1.30	-.60	-.024	.113	-.119	-.105	-.069	.024	-.048	8.76
8.77	1.31	1.62	-.187	-.155	-.205	-.111	.006	-.228	-.085	1.30	-.61	-.024	.114	-.120	-.106	-.067	.024	-.048	8.77
8.78	1.31	1.50	-.186	-.154	-.200	-.107	.011	-.224	-.085	1.30	-.62	-.024	.112	-.119	-.106	-.068	.024	-.048	8.78
8.79	1.31	1.29	-.184	-.153	-.194	-.088	.020	-.228	-.085	1.30	-.60	-.024	.111	-.119	-.107	-.068	.024	-.049	8.79
8.80	1.31	1.01	-.187	-.151	-.004	-.083	.014	-.371	-.080	1.30	-.58	-.022	.113	-.118	-.106	-.069	.024	-.049	8.80
8.81	1.31	.93	-.195	-.148	-.062	-.092	.017	-.376	-.097	1.30	-.62	-.021	.114	-.119	-.107	-.069	.025	-.049	8.81
8.82	1.31	-.11	-.196	-.144	-.172	-.101	.018	-.381	-.111	1.30	-.61	-.019	.114	-.119	-.107	-.070	.024	-.049	8.82
8.83	1.31	-.28	-.187	-.143	-.245	-.138	-.032	-.438	-.147	1.30	-.60	-.018	.116	-.117	-.107	-.071	.026	-.049	8.83
8.84	1.31	-.34	-.185	-.141	-.261	-.157	-.044	-.466	-.163	1.30	-.58	-.015	.115	-.120	-.108	-.070	.024	-.049	8.84
8.85	1.31	-.02	-.185	-.142	-.261	-.153	-.040	-.472	-.158	1.30	-.59	-.016	.115	-.119	-.109	-.069	.024	-.049	8.85
8.86	1.31	.43	-.186	-.144	-.246	-.143	-.025	-.452	-.137	1.30	-.60	-.015	.113	-.119	-.109	-.070	.024	-.048	8.86
8.87	1.30	.95	-.185	-.147	-.226	-.133	-.009	-.374	-.113	1.30	-.56	-.013	.115	-.118	-.108	-.071	.024	-.049	8.87
8.88	1.30	1.68	-.186	-.154	-.208	-.113	.006	-.289	-.091	1.30	-.58	-.013	.115	-.119	-.108	-.070	.024	-.050	8.88
8.89	1.30	2.27	-.185	-.161	-.192	-.099	.016	-.247	-.071	1.30	-.56	-.012	.116	-.120	-.108	-.070	.024	-.050	8.89
8.90	1.30	2.67	-.188	-.168	-.176	-.081	.028	-.207	-.052	1.30	-.55	-.012	.119	-.118	-.109	-.071	.024	-.050	8.90
8.91	1.30	2.87	-.186	-.172	-.174	-.071	.033	-.192	-.038	1.30	-.57	-.009	.120	-.118	-.108	-.069	.026	-.050	8.91
8.92	1.30	3.02	-.185	-.172	-.160	-.072	.033	-.183	-.030	1.30	-.53	-.011	.123	-.118	-.108	-.070	.025	-.051	8.92
8.93	1.30	2.94	-.187	-.174	-.150	-.075	.037	-.177	-.031	1.30	-.53	-.015	.124	-.118	-.107	-.072	.024	-.052	8.93
8.94	1.30	2.69	-.188	-.170	-.161	-.077	.029	-.188	-.033	1.30	-.54	-.020	.121	-.117	-.107	-.072	.025	-.053	8.94
8.95	1.30	2.33	-.185	-.166	-.178	-.086	.024	-.204	-.049	1.31	-.55	-.028	.109	-.116	-.108	-.070	.025	-.052	8.95
8.96	1.30	1.85	-.187	-.161	-.180	-.098	.014	-.220	-.061	1.31	-.52	-.037	.101	-.116	-.108	-.070	.024	-.052	8.96
8.97	1.30	1.50	-.187	-.158	-.210	-.108	.004	-.238	-.075	1.31	-.51	-.045	.095	-.116	-.108	-.075	.024	-.052	8.97
8.98	1.30	1.15	-.187	-.153	-.213	-.122	-.004	-.248	-.086	1.31	-.52	-.054	.089	-.114	-.108	-.077	.024	-.053	8.98
8.99	1.30	.82	-.196	-.151	-.226	-.134	-.009	-.277	-.096	1.31	-.53	-.062	.087	-.115	-.108	-.077	.024	-.053	8.99
9.00	1.30	.65	-.184	-.148	-.238	-.133	-.013	-.309	-.104	1.31	-.56	-.065	.084	-.115	-.109	-.081	.024	-.053	9.00
9.01	1.30	.61	-.184	-.144	-.251	-.135	-.013	-.310	-.100	1.31	-.62	-.075	.085	-.117	-.106	-.076	.022	-.047	9.01
9.02	1.30	.69	-.183	-.146	-.245	-.134	-.008	-.302	-.100	1.31	-.62	-.087	.087	-.117	-.107	-.080	.022	-.047	9.02
9.03	1.30	.85	-.185	-.147	-.241	-.128	-.006	-.277	-.100	1.31	-.61	-.104	.088	-.117	-.107	-.078	.022	-.047	9.03
9.04	1.29	1.21	-.134	-.150	-.224	-.124	-.002	-.250	-.087	1.31	-.59	-.123	.070	-.118	-.107	-.083	.021	-.047	9.04
9.05	1.29	1.46	-.185	-.152	-.222	-.115	.002	-.236	-.076	1.31	-.59	-.138	.042	-.116	-.108	-.083	.022	-.047	9.05
9.06	1.29	1.83	-.183	-.155	-.206	-.099	.017	-.224	-.067	1.31	-.60	-.150	.046	-.116	-.109	-.082	.021	-.047	9.06
9.07	1.29	2.03	-.186	-.160	-.197	-.095	.017	-.221	-.059	1.31	-.55	-.107	.066	-.116	-.108	-.083	.021	-.047	9.07
9.08	1.29	2.17	-.192	-.161	-.187	-.089	.018	-.218	-.052	1.31	-.63	-.045	.085	-.117	-.107	-.082	.021	-.047	9.08
9.09	1.29	2.17	-.185	-.163	-.182	-.088	.020	-.213	-.046	1.31	-.75	-.004	.085	-.116	-.105	-.074	.019	-.052	9.09
9.10	1.29	2.19	-.184	-.161	-.176	-.088	.019	-.224	-.044	1.31	-.83	-.011	.059	-.116	-.103	-.054	.017	-.054	9.10
9.11	1.29	2.94	-.180	-.161	-.185	-.094	.017	-.223	-.046	1.31	-.93	-.045	.024	-.114	-.103	-.065	.014	-.058	9.11
9.12	1.29	1.91	-.185	-.158	-.182	-.092	.013	-.228	-.044	1.31	-.91	-.046	-.017	-.114	-.105	-.062	.009	-.058	9.12
9.13	1.29	1.69	-.183	-.157	-.193	-.100	.012	-.232	-.047	1.31	-.95	-.052	-.041	-.113	-.104	-.091	.007	-.059	9.13
9.14	1.29	1.48	-.183	-.156	-.202	-.100	.005	-.235	-.055	1.31	-.84	-.085	-.062	-.113	-.105	-.098	.006	-.054	9.14
9.15	1.29	1.28	-.184	-.153	-.208	-.110	.003	-.242	-.066	1.31	-.68	-.124	-.052	-.114	-.107	-.105	.008	-.050	9.15
9.16	1.29	1.16	-.183	-.153	-.212	-.111	-.001	-.245	-.071	1.31	-.46	-.155	.008	-.116	-.109	-.112	.014	-.046	9.16
9.17	1.29	1.07	-.183	-.151	-.222	-.118	-.001	-.235	-.075	1.31	-.19	-.169	.088	-.117	-.111	-.120	.020	-.038	9.17
9.18	1.29	1.10	-.184	-.151	-.223	-.115	-.001	-.241	-.072	1.31	.02	-.173	.104	-.118	-.113	-.126	.030	-.031	9.18
9.19	1.29	1.15	-.183	-.150	-.227	-.112	.001	-.250	-.076	1.31	.19	-.169	.103	-.121	-.115	-.131	.037	-.026	9.19
9.20	1.29	1.27	-.184	-.148	-.225	-.110	.014	-.244	-.071	1.30	.31	-.168	.101	-.122	-.117	-.134	.045	-.020	9.20
9.21	1.28	1.39	-.182	-.152	-.223	-.109	.011	-.239	-.070	1.30	.28	-.170	.102	-.126	-.117	-.130	.052	-.018	9.21
9.22	1.28	1.58	-.180	-.152	-.224	-.096	.018	-.230	-.068	1.30	.27	-.168	.101	-.126	-.118	-.135	.059	-.018	9.22
9.23	1.28	1.61	-.182	-.154	-.213	-.095	.017	-.230	-.066	1.30	.14	-.167	.097	-.126	-.119	-.133	.055	-.018	9.23
9.24	1.28	1.81	-.183	-.157	-.209	-.101	.020	-.229	-.066	1.30	-.04	-.166	.096	-.126	-.119	-.134	.053	-.023	9.24
9.25	1.28	1.78	-.182	-.158	-.204	-.094</													

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
$\frac{t}{s}$	M	α , deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α , deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	$\frac{t}{s}$
9.40	1.27	1.59	-1.78	-1.54	-2.18	-.091	.014	-.227	-.067	1.29	-1.0	-1.43	.073	-.118	-.113	-.125	.044	-.026	9.40
9.41	1.27	1.62	-1.84	-1.53	-2.10	-.090	.014	-.235	-.068	1.29	-2.4	-1.51	.076	-.127	-.118	-.131	.044	-.034	9.41
9.42	1.27	1.71	-1.86	-1.56	-2.18	-.088	.017	-.235	-.067	1.29	-3.1	-1.51	.075	-.126	-.118	-.131	.041	-.034	9.42
9.43	1.27	1.67	-1.87	-1.56	-2.20	-.088	.014	-.229	-.067	1.29	-4.1	-1.51	.076	-.125	-.118	-.131	.037	-.034	9.43
9.44	1.27	1.73	-1.87	-1.57	-2.13	-.088	.014	-.239	-.067	1.29	-4.6	-1.51	.075	-.125	-.118	-.130	.033	-.042	9.44
9.45	1.27	1.59	-1.85	-1.56	-2.13	-.092	.014	-.231	-.068	1.29	-4.7	-1.44	.071	-.117	-.111	-.126	.029	-.040	9.45
9.46	1.27	1.51	-1.86	-1.54	-2.14	-.092	.017	-.237	-.070	1.29	-4.8	-1.52	.074	-.124	-.117	-.131	.030	-.042	9.46
9.47	1.27	1.44	-1.87	-1.54	-2.26	-.092	.011	-.231	-.071	1.29	-4.3	-1.52	.075	-.122	-.113	-.130	.031	-.041	9.47
9.48	1.27	1.31	-1.85	-1.52	-2.19	-.094	.008	-.232	-.074	1.29	-3.7	-1.52	.075	-.122	-.115	-.130	.032	-.040	9.48
9.49	1.27	1.24	-1.85	-1.48	-2.26	-.095	.006	-.242	-.074	1.29	-3.1	-1.53	.075	-.122	-.113	-.130	.033	-.037	9.49
9.50	1.27	1.16	-1.86	-1.44	-2.34	-.094	.006	-.251	-.068	1.29	-2.0	-1.51	.076	-.121	-.113	-.128	.038	-.035	9.50
9.51	1.27	1.08	-1.86	-1.43	-2.40	-.095	.027	-.250	-.067	1.28	-1.4	-1.50	.073	-.121	-.113	-.129	.040	-.034	9.51
9.52	1.27	1.10	-1.84	-1.41	-2.40	-.088	.007	-.241	-.068	1.28	-0.7	-1.48	.071	-.120	-.114	-.127	.043	-.032	9.52
9.53	1.27	1.16	-1.85	-1.38	-2.33	-.094	.005	-.248	-.068	1.28	-0.9	-1.43	.065	-.120	-.113	-.125	.046	-.030	9.53
9.54	1.26	1.20	-1.86	-1.40	-2.37	-.092	.004	-.245	-.068	1.28	-0.8	-1.38	.062	-.122	-.113	-.125	.045	-.030	9.54
9.55	1.26	1.23	-1.85	-1.40	-2.23	-.089	.011	-.243	-.063	1.28	-1.2	-1.37	.060	-.121	-.114	-.125	.044	-.031	9.55
9.56	1.26	1.32	-1.88	-1.40	-2.28	-.090	.021	-.235	-.064	1.28	-2.2	-1.39	.058	-.125	-.115	-.122	.044	-.031	9.56
9.57	1.26	1.46	-1.86	-1.40	-2.25	-.084	.011	-.241	-.062	1.28	-5.2	-1.45	.060	-.126	-.117	-.122	.041	-.032	9.57
9.58	1.26	1.51	-1.86	-1.44	-2.30	-.084	.005	-.240	-.062	1.28	-9.0	-1.53	.066	-.131	-.123	-.121	.034	-.042	9.58
9.59	1.26	1.54	-1.85	-1.46	-2.24	-.081	.015	-.237	-.060	1.28	-1.36	-1.60	.071	-.136	-.125	-.122	.022	-.057	9.59
9.60	1.26	1.57	-1.82	-1.44	-2.32	-.081	.010	-.230	-.057	1.28	-1.68	-1.67	.078	-.135	-.122	-.120	.007	-.073	9.60
9.61	1.26	1.62	-1.80	-1.46	-2.19	-.091	.020	-.226	-.057	1.28	-1.85	-1.76	.086	-.124	-.108	-.119	-.008	-.086	9.61
9.62	1.26	1.54	-1.81	-1.46	-2.03	-.087	.019	-.235	-.057	1.28	-1.86	-1.81	.090	-.116	-.103	-.119	-.024	-.085	9.62
9.63	1.26	1.55	-1.81	-1.45	-2.02	-.094	.012	-.239	-.062	1.28	-1.54	-1.84	.098	-.110	-.101	-.121	.023	-.081	9.63
9.64	1.26	1.45	-1.81	-1.44	-2.25	-.098	.031	-.243	-.067	1.28	-1.18	-1.86	.102	-.115	-.104	-.123	.014	-.072	9.64
9.65	1.26	1.41	-1.80	-1.46	-2.23	-.094	.010	-.245	-.070	1.28	-6.8	-1.85	.106	-.115	-.107	-.124	.002	-.059	9.65
9.66	1.26	1.31	-1.81	-1.43	-2.29	-.092	.006	-.248	-.068	1.27	-1.3	-1.89	.110	-.122	-.114	-.126	.023	-.043	9.66
9.67	1.26	1.24	-1.82	-1.41	-2.27	-.099	.005	-.248	-.074	1.27	-6.6	-1.87	.114	-.123	-.117	-.130	.044	-.024	9.67
9.68	1.26	1.17	-1.81	-1.41	-2.35	-.092	.002	-.249	-.068	1.27	-6.6	-1.87	.118	-.131	-.123	-.131	.061	-.014	9.68
9.69	1.26	1.15	-1.81	-1.38	-2.33	-.091	.003	-.251	-.072	1.27	-8.8	-1.89	.120	-.134	-.126	-.133	.077	-.006	9.69
9.70	1.26	1.21	-1.82	-1.37	-2.38	-.097	.006	-.244	-.076	1.27	-8.9	-1.90	.123	-.136	-.122	-.137	.083	-.003	9.70
9.71	1.25	1.19	-1.82	-1.37	-2.38	-.094	.004	-.237	-.072	1.27	-7.6	-1.93	.125	-.138	-.132	-.139	.083	-.005	9.71
9.72	1.25	1.31	-1.81	-1.35	-2.26	-.088	.006	-.243	-.070	1.27	-5.0	-1.98	.128	-.137	-.134	-.144	.080	-.011	9.72
9.73	1.25	1.41	-1.81	-1.36	-2.28	-.088	.007	-.253	-.069	1.27	-1.7	-1.99	.132	-.136	-.132	-.143	.070	-.019	9.73
9.74	1.25	1.43	-1.81	-1.38	-2.34	-.092	.005	-.241	-.059	1.27	-2.3	-1.99	.134	-.136	-.131	-.145	.054	-.025	9.74
9.75	1.25	1.53	-1.81	-1.35	-2.27	-.091	.009	-.245	-.061	1.27	-5.4	-1.99	.133	-.130	-.125	-.144	.044	-.033	9.75
9.76	1.25	1.56	-1.81	-1.37	-2.25	-.087	.010	-.250	-.061	1.27	-7.8	-2.01	.136	-.128	-.121	-.143	.028	-.047	9.76
9.77	1.25	1.55	-1.81	-1.36	-2.27	-.082	.005	-.243	-.061	1.27	-1.02	-2.01	.136	-.122	-.116	-.140	.018	-.052	9.77
9.78	1.25	1.52	-1.81	-1.40	-2.14	-.085	.004	-.239	-.060	1.27	-1.08	-2.01	.135	-.120	-.111	-.134	.008	-.060	9.78
9.79	1.25	1.57	-1.80	-1.40	-2.17	-.083	.006	-.255	-.063	1.27	-1.02	-2.00	.136	-.116	-.107	-.130	.007	-.061	9.79
9.80	1.25	1.44	-1.83	-1.41	-2.21	-.082	.006	-.239	-.069	1.27	-8.4	-2.01	.135	-.114	-.105	-.128	.008	-.061	9.80
9.81	1.25	1.39	-1.81	-1.39	-2.23	-.081	.008	-.242	-.066	1.27	-6.0	-2.02	.138	-.116	-.105	-.125	.017	-.052	9.81
9.82	1.25	1.38	-1.83	-1.39	-2.16	-.085	.011	-.243	-.069	1.26	-3.1	-2.02	.139	-.117	-.107	-.123	.026	-.044	9.82
9.83	1.25	1.32	-1.83	-1.37	-2.24	-.082	.003	-.239	-.066	1.26	-0.3	-2.01	.139	-.119	-.108	-.121	.038	-.032	9.83
9.84	1.25	1.23	-1.83	-1.36	-2.30	-.085	.003	-.248	-.071	1.26	-1.9	-2.01	.141	-.121	-.112	-.119	.048	-.023	9.84
9.85	1.25	1.14	-1.83	-1.34	-2.39	-.077	.009	-.250	-.069	1.26	-3.3	-2.03	.140	-.124	-.116	-.124	.058	-.019	9.85
9.86	1.25	1.21	-1.84	-1.35	-2.30	-.076	.008	-.256	-.071	1.26	-3.9	-2.01	.142	-.128	-.118	-.127	.064	-.018	9.86
9.87	1.25	1.22	-1.82	-1.36	-2.32	-.083	.013	-.248	-.072	1.26	-3.6	-2.02	.142	-.130	-.120	-.126	.066	-.017	9.87
9.88	1.25	1.25	-1.83	-1.37	-2.22	-.077	.002	-.240	-.076	1.26	-3.2	-2.02	.142	-.133	-.124	-.130	.062	-.017	9.88
9.89	1.25	1.28	-1.83	-1.33	-2.28	-.085	.008	-.235	-.072	1.26	-4.3	-2.01	.144	-.134	-.126	-.138	.058	-.015	9.89
9.90	1.24	1.29	-1.83	-1.35	-2.22	-.092	.005	-.240	-.072	1.26	-1.9	-2.02	.144	-.135	-.128	-.140	.050	-.025	9.90
9.91	1.24	1.29	-1.83	-1.33	-2.23	-.084	.007	-.250	-.073	1.26	-4.0	-2.02	.145	-.135	-.129	-.145	.043	-.037	9.91
9.92	1.24	1.37	-1.84	-1.34	-2.33	-.083	.004	-.240	-.073	1.26	-5.7	-2.03	.144	-.135	-.127	-.142	.035	-.040	9.92
9.93	1.24	1.43	-1.83	-1.37	-2.32	-.080	.002	-.234	-.073	1.26	-6.7	-2.02	.146	-.133	-.126	-.142	.028	-.045	9.93
9.94	1.24	1.40	-1.84	-1.39	-2.26	-.078	.005	-.238	-.070	1.26	-7.3	-1.99	.146	-.131	-.124	-.140	.024	-.047	9.94
9.95	1.24	1.42	-1.83	-1.39	-2.23	-.086	.008	-.245	-.066	1.26	-7.2	-2.01	.145	-.130	-.122	-.140	.021	-.048	9.95
9.96	1.24	1.37	-1.83	-1.40	-2.29	-.081	.002	-.237	-.071	1.26	-6.9	-2.01	.147	-.129	-.120	-.137	.022	-.048	9.96
9.97	1.24	1.39	-1.81	-1.39	-2.21	-.079	.010	-.237	-.065	1.26	-5.7	-2.00	.146	-.127	-.120	-.136	.023	-.045	9.97
9.98	1.24	1.30	-1.84	-1.38	-2.26	-.093	.002	-.236	-.070	1.25	-3.9	-2.01	.146	-.126	-.118	-.134	.028	-.041	9.98
9.99	1.24	1.27	-1.84	-1.38	-2.21	-.082	.007	-.233	-.064	1.25	-2.0	-1.95	.143	-.121	-.113	-.127	.034	-.037	9.99
10.00	1.24	1.33	-1.81	-1.35	-2.25	-.085	.003	-.244	-.067	1.25	-0.4	-2.01	.148	-.124	-.115	-.129	.041	-.035	10.00
10.01	1.24	1.42	-1.81	-1.36	-2.06	-.090	-.001	-.214	-.067	1.25	-1.6	-2.02	.149	-.124	-.114	-.125	.047	-.030	10.01
10.02	1.24	1.45	-1.83	-1.38	-2.04	-.094	-.006	-.229	-.065	1.25	-1.6	-2.02	.149	-.126	-.115	-.125	.052	-.027	10.02
10.03	1.24	1.42	-1.82	-1.41	-2.22	-.096	-.007	-.233	-.065	1.25	-1.3	-2.01	.150	-.125	-.115	-.123	.055	-.029	10.03
10.04	1.24	1.43	-1.82	-1.46	-2.01	-.093	-.002	-.221	-.070	1.25	-0.9	-2.02	.151	-.126	-.116	-.122	.056	-.029	10.04
10.05	1.24	1																	

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t, sec	M	α, deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α, deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t, sec
10.20	1.23	1.38	-0.179	-0.155	-0.191	-0.093	0.000	-0.224	-0.070	1.24	0.01	-0.201	0.149	0.131	-0.121	-0.128	0.049	-0.029	10.20
10.21	1.23	1.36	-0.180	-0.153	-0.200	-0.097	0.000	-0.218	-0.073	1.24	-0.04	-0.202	0.150	0.131	-0.119	-0.127	0.051	-0.028	10.21
10.22	1.23	1.33	-0.182	-0.155	-0.200	-0.092	-0.002	-0.218	-0.073	1.24	-0.08	-0.201	0.149	0.131	-0.119	-0.127	0.049	-0.028	10.22
10.23	1.23	1.34	-0.180	-0.154	-0.201	-0.082	-0.002	-0.221	-0.073	1.24	-0.16	-0.201	0.151	0.130	-0.118	-0.127	0.044	-0.028	10.23
10.24	1.23	1.33	-0.179	-0.155	-0.202	-0.084	-0.003	-0.208	-0.074	1.24	-0.24	-0.202	0.150	0.129	-0.119	-0.127	0.044	-0.028	10.24
10.25	1.23	1.35	-0.180	-0.155	-0.197	-0.089	0.000	-0.213	-0.074	1.24	-0.32	-0.201	0.150	0.130	-0.116	-0.126	0.041	-0.029	10.25
10.26	1.23	1.35	-0.179	-0.155	-0.197	-0.087	0.003	-0.215	-0.075	1.24	-0.42	-0.200	0.151	0.131	-0.120	-0.127	0.037	-0.035	10.26
10.27	1.23	1.32	-0.178	-0.156	-0.205	-0.086	-0.004	-0.213	-0.077	1.24	-0.45	-0.201	0.151	0.132	-0.119	-0.126	0.033	-0.035	10.27
10.28	1.23	1.31	-0.179	-0.157	-0.199	-0.090	0.000	-0.208	-0.079	1.24	-0.45	-0.201	0.151	0.132	-0.120	-0.128	0.030	-0.037	10.28
10.29	1.23	1.37	-0.179	-0.157	-0.207	-0.088	-0.002	-0.213	-0.078	1.23	-0.45	-0.200	0.150	0.134	-0.121	-0.129	0.030	-0.037	10.29
10.30	1.22	1.34	-0.180	-0.155	-0.198	-0.087	-0.003	-0.222	-0.076	1.23	-0.41	-0.200	0.151	0.134	-0.123	-0.129	0.031	-0.034	10.30
10.31	1.22	1.40	-0.180	-0.157	-0.202	-0.083	-0.002	-0.212	-0.077	1.23	-0.38	-0.200	0.150	0.137	-0.122	-0.131	0.034	-0.032	10.31
10.32	1.22	1.38	-0.178	-0.156	-0.203	-0.083	0.000	-0.208	-0.077	1.23	-0.30	-0.200	0.151	0.136	-0.124	-0.134	0.037	-0.035	10.32
10.33	1.22	1.38	-0.178	-0.158	-0.194	-0.083	-0.006	-0.212	-0.075	1.23	-0.24	-0.200	0.150	0.137	-0.125	-0.135	0.040	-0.027	10.33
10.34	1.22	1.37	-0.178	-0.155	-0.204	-0.085	-0.002	-0.211	-0.079	1.23	-0.20	-0.201	0.150	0.138	-0.125	-0.135	0.043	-0.029	10.34
10.35	1.22	1.56	-0.180	-0.155	-0.196	-0.084	-0.002	-0.213	-0.082	1.23	-0.13	-0.200	0.150	0.137	-0.125	-0.135	0.044	-0.031	10.35
10.36	1.22	1.79	-0.178	-0.158	-0.201	-0.065	0.017	-0.200	-0.070	1.23	-0.11	-0.201	0.149	0.137	-0.126	-0.135	0.044	-0.032	10.36
10.37	1.22	2.03	-0.177	-0.159	-0.185	-0.068	0.013	-0.185	-0.062	1.23	-0.10	-0.201	0.148	0.136	-0.124	-0.135	0.044	-0.027	10.37
10.38	1.22	2.43	-0.171	-0.163	-0.174	-0.051	0.017	-0.161	-0.057	1.23	-0.25	-0.201	0.149	0.135	-0.125	-0.134	0.045	-0.028	10.38
10.39	1.22	2.79	-0.170	-0.164	-0.164	-0.050	0.022	-0.143	-0.036	1.23	-0.25	-0.202	0.149	0.135	-0.125	-0.133	0.044	-0.028	10.39
10.40	1.22	2.86	-0.177	-0.172	-0.147	-0.043	0.029	-0.131	-0.007	1.23	-0.03	-0.201	0.147	0.135	-0.134	-0.134	0.044	-0.026	10.40
10.41	1.22	2.90	-0.177	-0.174	-0.156	-0.050	0.045	-0.137	-0.007	1.23	-0.24	-0.203	0.150	0.134	-0.121	-0.133	0.041	-0.028	10.41
10.42	1.22	2.71	-0.178	-0.176	-0.157	-0.054	0.028	-0.143	-0.009	1.23	-0.25	-0.202	0.150	0.133	-0.120	-0.132	0.040	-0.029	10.42
10.43	1.22	2.38	-0.177	-0.174	-0.158	-0.055	0.024	-0.154	-0.014	1.23	-0.30	-0.201	0.150	0.133	-0.120	-0.129	0.037	-0.029	10.43
10.44	1.22	2.01	-0.178	-0.169	-0.168	-0.060	0.015	-0.170	-0.035	1.22	-0.32	-0.202	0.150	0.134	-0.119	-0.129	0.035	-0.029	10.44
10.45	1.22	1.44	-0.180	-0.166	-0.177	-0.074	0.009	-0.194	-0.047	1.22	-0.35	-0.202	0.150	0.132	-0.119	-0.127	0.035	-0.029	10.45
10.46	1.22	1.15	-0.179	-0.160	-0.194	-0.084	-0.003	-0.211	-0.056	1.22	-0.34	-0.202	0.150	0.132	-0.119	-0.125	0.035	-0.030	10.46
10.47	1.22	0.80	-0.177	-0.157	-0.201	-0.085	-0.010	-0.227	-0.082	1.22	-0.34	-0.201	0.150	0.125	-0.121	-0.128	0.034	-0.030	10.47
10.48	1.22	0.49	-0.180	-0.154	-0.222	-0.105	-0.020	-0.250	-0.089	1.22	-0.29	-0.201	0.149	0.137	-0.120	-0.128	0.034	-0.030	10.48
10.49	1.21	0.31	-0.180	-0.150	-0.251	-0.094	-0.021	-0.256	-0.090	1.22	-0.28	-0.201	0.151	0.136	-0.122	-0.128	0.034	-0.030	10.49
10.50	1.21	0.27	-0.180	-0.155	-0.230	-0.099	-0.013	-0.256	-0.103	1.22	-0.26	-0.201	0.148	0.136	-0.123	-0.129	0.036	-0.030	10.50
10.51	1.21	0.32	-0.179	-0.148	-0.239	-0.094	-0.018	-0.258	-0.103	1.22	-0.24	-0.201	0.149	0.139	-0.124	-0.133	0.037	-0.032	10.51
10.52	1.21	0.56	-0.181	-0.151	-0.235	-0.083	-0.009	-0.245	-0.098	1.22	-0.22	-0.201	0.149	0.140	-0.127	-0.134	0.039	-0.032	10.52
10.53	1.21	0.82	-0.180	-0.154	-0.226	-0.086	-0.008	-0.236	-0.096	1.22	-0.21	-0.202	0.148	0.142	-0.128	-0.135	0.040	-0.031	10.53
10.54	1.21	1.06	-0.179	-0.153	-0.229	-0.073	-0.003	-0.225	-0.081	1.22	-0.21	-0.201	0.148	0.141	-0.129	-0.135	0.040	-0.031	10.54
10.55	1.21	1.41	-0.180	-0.157	-0.194	-0.080	0.034	-0.218	-0.074	1.22	-0.19	-0.202	0.149	0.142	-0.130	-0.136	0.039	-0.032	10.55
10.56	1.21	1.73	-0.179	-0.163	-0.187	-0.073	0.010	-0.193	-0.064	1.22	-0.22	-0.201	0.149	0.143	-0.130	-0.139	0.039	-0.032	10.56
10.57	1.21	1.87	-0.178	-0.162	-0.174	-0.071	0.035	-0.186	-0.057	1.22	-0.21	-0.202	0.148	0.141	-0.130	-0.136	0.038	-0.032	10.57
10.58	1.21	2.06	-0.178	-0.166	-0.162	-0.065	0.018	-0.183	-0.050	1.22	-0.23	-0.201	0.148	0.141	-0.129	-0.136	0.037	-0.032	10.58
10.59	1.21	2.09	-0.179	-0.167	-0.174	-0.070	0.027	-0.179	-0.055	1.22	-0.26	-0.201	0.148	0.141	-0.129	-0.137	0.033	-0.032	10.59
10.60	1.21	2.09	-0.178	-0.168	-0.178	-0.079	0.009	-0.181	-0.057	1.21	-0.26	-0.201	0.148	0.138	-0.125	-0.135	0.036	-0.033	10.60
10.61	1.21	1.99	-0.171	-0.163	-0.177	-0.077	0.003	-0.185	-0.047	1.21	-0.29	-0.200	0.146	0.136	-0.124	-0.135	0.035	-0.033	10.61
10.62	1.21	1.78	-0.174	-0.159	-0.182	-0.072	0.001	-0.184	-0.047	1.21	-0.27	-0.200	0.147	0.137	-0.121	-0.134	0.035	-0.033	10.62
10.63	1.21	1.54	-0.173	-0.161	-0.178	-0.086	0.003	-0.191	-0.052	1.21	-0.29	-0.201	0.147	0.135	-0.123	-0.129	0.036	-0.033	10.63
10.64	1.21	1.19	-0.174	-0.158	-0.186	-0.087	0.002	-0.203	-0.057	1.21	-0.28	-0.201	0.146	0.135	-0.123	-0.130	0.036	-0.033	10.64
10.65	1.21	1.07	-0.173	-0.155	-0.184	-0.090	-0.005	-0.214	-0.069	1.21	-0.25	-0.200	0.147	0.133	-0.122	-0.128	0.035	-0.033	10.65
10.66	1.21	0.95	-0.176	-0.152	-0.195	-0.098	-0.013	-0.227	-0.071	1.21	-0.26	-0.199	0.147	0.134	-0.123	-0.128	0.036	-0.032	10.66
10.67	1.21	0.87	-0.174	-0.150	-0.204	-0.094	-0.008	-0.231	-0.075	1.21	-0.25	-0.200	0.148	0.135	-0.123	-0.128	0.035	-0.034	10.67
10.68	1.21	0.81	-0.175	-0.147	-0.202	-0.094	-0.010	-0.234	-0.072	1.21	-0.25	-0.200	0.146	0.137	-0.124	-0.129	0.036	-0.034	10.68
10.69	1.20	0.77	-0.175	-0.148	-0.204	-0.094	-0.016	-0.231	-0.082	1.21	-0.24	-0.201	0.147	0.138	-0.125	-0.130	0.036	-0.033	10.69
10.70	1.20	0.88	-0.175	-0.149	-0.213	-0.094	-0.004	-0.227	-0.079	1.21	-0.23	-0.200	0.146	0.140	-0.127	-0.133	0.036	-0.033	10.70
10.71	1.20	0.99	-0.177	-0.147	-0.215	-0.091	-0.003	-0.223	-0.071	1.21	-0.22	-0.200	0.147	0.140	-0.127	-0.132	0.036	-0.034	10.71
10.72	1.20	1.20	-0.177	-0.151	-0.197	-0.082	0.001	-0.220	-0.070	1.21	-0.21	-0.200	0.147	0.142	-0.128	-0.133	0.036	-0.034	10.72
10.73	1.20	1.32	-0.177	-0.154	-0.196	-0.078	0.005	-0.215	-0.065	1.21	-0.23	-0.201	0.147	0.142	-0.130	-0.133	0.037	-0.034	10.73
10.74	1.20	1.48	-0.178	-0.153	-0.188	-0.073	0.002	-0.208	-0.058	1.21	-0.25	-0.200	0.147	0.144	-0.132	-0.134	0.036	-0.035	10.74
10.75	1.20	1.58	-0.177	-0.158	-0.187	-0.066	0.009	-0.196	-0.050	1.20	-0.24	-0.200	0.147	0.143	-0.131	-0.134	0.037	-0.035	10.75
10.76	1.20	1.62	-0.178	-0.160	-0.192	-0.075	0.003	-0.203	-0.059	1.20	-0.24	-0.199	0.148	0.145	-0.131	-0.136	0.036	-0.035	10.76
10.77	1.20	1.62	-0.178	-0.162	-0.187	-0.078	0.004	-0.209	-0.056	1.20	-0.26	-0.200	0.148	0.142	-0.131	-0.136	0.035	-0.035	10.77
10.78	1.20	1.68	-0.178	-0.162	-0.184	-0.082	0.008	-0.206	-0.053	1.20	-0.26	-0.201	0.146	0.144	-0.130	-0.1			

TABLE III.- Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III											Model IV									
t, sec	M	α, deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	t, sec	M	α, deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t, sec
11.00	1.19	1.42	-.179	-.157	-.193	-.078	.005	-.198	-.061	1.19	-.24	-.196	.147	-.146	-.131	-.132	.035	-.040	11.00	
11.01	1.19	1.32	-.177	-.157	-.196	-.090	.009	-.205	-.055	1.19	-.23	-.196	.150	-.145	-.131	-.131	.034	-.041	11.01	
11.02	1.19	1.22	-.176	-.154	-.204	-.089	-.003	-.220	-.060	1.19	-.23	-.196	.149	-.146	-.133	-.127	.037	-.043	11.02	
11.03	1.19	1.19	-.178	-.155	-.203	-.082	.011	-.201	-.068	1.19	-.22	-.197	.150	-.144	-.131	-.128	.037	-.040	11.03	
11.04	1.19	1.10	-.176	-.156	-.198	-.073	.005	-.211	-.061	1.19	-.24	-.196	.149	-.146	-.131	-.128	.036	-.040	11.04	
11.05	1.19	1.08	-.177	-.155	-.197	-.081	.004	-.204	-.065	1.19	-.23	-.199	.151	-.144	-.130	-.122	.037	-.042	11.05	
11.06	1.19	1.13	-.177	-.154	-.205	-.091	.005	-.214	-.067	1.19	-.24	-.199	.152	-.144	-.129	-.124	.037	-.042	11.06	
11.07	1.19	1.12	-.180	-.154	-.208	-.083	.003	-.207	-.065	1.18	-.25	-.199	.150	-.145	-.130	-.124	.035	-.043	11.07	
11.08	1.19	1.10	-.178	-.154	-.203	-.079	.005	-.209	-.062	1.18	-.25	-.198	.148	-.147	-.129	-.126	.033	-.044	11.08	
11.09	1.18	1.18	-.177	-.154	-.200	-.079	.022	-.201	-.062	1.18	-.27	-.199	.151	-.146	-.131	-.125	.035	-.043	11.09	
11.10	1.18	1.22	-.177	-.155	-.199	-.074	.013	-.198	-.062	1.18	-.26	-.198	.151	-.144	-.131	-.126	.034	-.041	11.10	
11.11	1.18	1.25	-.177	-.156	-.202	-.075	.012	-.196	-.059	1.18	-.29	-.199	.151	-.146	-.131	-.125	.035	-.035	11.11	
11.12	1.18	1.26	-.177	-.155	-.196	-.074	.011	-.198	-.053	1.18	-.27	-.198	.153	-.147	-.134	-.126	.034	-.035	11.12	
11.13	1.18	1.37	-.176	-.154	-.198	-.072	.014	-.195	-.057	1.18	-.27	-.199	.152	-.148	-.134	-.125	.032	-.034	11.13	
11.14	1.18	1.38	-.178	-.157	-.193	-.073	.010	-.190	-.051	1.18	-.28	-.198	.151	-.149	-.136	-.129	.034	-.034	11.14	
11.15	1.18	1.36	-.180	-.155	-.200	-.075	.016	-.196	-.054	1.18	-.29	-.199	.151	-.151	-.137	-.128	.034	-.034	11.15	
11.16	1.18	1.41	-.176	-.156	-.196	-.078	.012	-.184	-.057	1.18	-.29	-.199	.153	-.153	-.139	-.131	.033	-.038	11.16	
11.17	1.18	1.38	-.176	-.157	-.201	-.066	.006	-.181	-.056	1.18	-.26	-.198	.154	-.152	-.139	-.131	.032	-.038	11.17	
11.18	1.18	1.38	-.178	-.157	-.203	-.079	.016	-.190	-.052	1.18	-.26	-.198	.151	-.152	-.138	-.131	.033	-.039	11.18	
11.19	1.18	1.28	-.177	-.157	-.206	-.078	.010	-.189	-.053	1.18	-.25	-.199	.152	-.152	-.138	-.129	.030	-.036	11.19	
11.20	1.18	1.26	-.173	-.157	-.204	-.076	.011	-.187	-.058	1.18	-.26	-.197	.153	-.155	-.138	-.129	.032	-.036	11.20	
11.21	1.18	1.20	-.173	-.154	-.205	-.086	.004	-.191	-.060	1.18	-.17	-.199	.153	-.152	-.137	-.128	.032	-.036	11.21	
11.22	1.18	1.19	-.173	-.154	-.202	-.080	.007	-.195	-.055	1.18	-.01	-.199	.154	-.152	-.137	-.127	.032	-.036	11.22	
11.23	1.18	1.12	-.173	-.153	-.200	-.079	.016	-.194	-.060	1.18	-.35	-.198	.155	-.151	-.139	-.126	.043	-.023	11.23	
11.24	1.18	1.18	-.175	-.151	-.193	-.077	.009	-.186	-.061	1.17	-.73	-.199	.154	-.151	-.142	-.130	.062	-.006	11.24	
11.25	1.18	1.16	-.174	-.152	-.200	-.088	.006	-.183	-.069	1.17	-.93	-.199	.155	-.159	-.149	-.121	.093	.011	11.25	
11.26	1.18	1.11	-.174	-.154	-.196	-.090	-.003	-.189	-.066	1.17	-.39	-.199	.154	-.159	-.151	-.121	.107	.016	11.26	
11.27	1.18	1.20	-.172	-.151	-.191	-.085	.005	-.177	-.064	1.17	1.49	-.197	.155	-.162	-.151	-.125	.109	.014	11.27	
11.28	1.17	1.19	-.173	-.150	-.194	-.073	.013	-.177	-.063	1.17	1.14	-.196	.156	-.159	-.149	-.120	.107	.013	11.28	
11.29	1.17	1.22	-.174	-.154	-.188	-.076	.020	-.180	-.063	1.17	-.79	-.197	.154	-.160	-.147	-.123	.101	.009	11.29	
11.30	1.17	1.28	-.172	-.153	-.190	-.083	.019	-.181	-.059	1.17	-.29	-.199	.156	-.156	-.147	-.122	.092	.002	11.30	
11.31	1.17	1.28	-.172	-.152	-.198	-.079	.003	-.184	-.064	1.17	-.18	-.198	.157	-.154	-.141	-.124	.073	.001	11.31	
11.32	1.17	1.31	-.172	-.154	-.182	-.078	.020	-.176	-.065	1.17	-.66	-.198	.158	-.151	-.138	-.128	.038	-.027	11.32	
11.33	1.17	1.28	-.172	-.153	-.185	-.080	.009	-.168	-.063	1.17	1.01	-.198	.157	-.147	-.132	-.123	.017	-.040	11.33	
11.34	1.17	1.31	-.172	-.152	-.184	-.073	.005	-.175	-.064	1.17	1.33	-.198	.157	-.141	-.128	-.128	.002	-.044	11.34	
11.35	1.17	1.33	-.172	-.152	-.190	-.075	.007	-.165	-.064	1.17	1.39	-.199	.156	-.139	-.127	-.125	.012	-.056	11.35	
11.36	1.17	1.32	-.173	-.154	-.187	-.080	.017	-.165	-.063	1.17	1.40	-.197	.158	-.137	-.125	-.125	-.012	-.056	11.36	
11.37	1.17	1.34	-.173	-.153	-.191	-.072	.007	-.169	-.065	1.17	1.26	-.197	.157	-.137	-.125	-.122	-.011	-.061	11.37	
11.38	1.17	1.32	-.172	-.152	-.190	-.078	.008	-.173	-.065	1.17	-.99	-.198	.156	-.137	-.127	-.122	-.005	-.057	11.38	
11.39	1.17	1.21	-.171	-.153	-.185	-.062	.008	-.174	-.066	1.17	-.62	-.198	.157	-.140	-.132	-.122	.002	-.051	11.39	
11.40	1.17	1.30	-.172	-.153	-.189	-.070	.003	-.169	-.066	1.17	-.27	-.197	.158	-.145	-.133	-.121	.016	-.040	11.40	
11.41	1.17	1.26	-.173	-.151	-.191	-.072	.003	-.181	-.067	1.17	-.01	-.198	.159	-.150	-.136	-.089	.032	-.029	11.41	
11.42	1.17	1.25	-.172	-.154	-.200	-.073	.005	-.175	-.070	1.17	-.32	-.199	.158	-.154	-.140	-.113	.050	-.020	11.42	
11.43	1.17	1.19	-.172	-.152	-.215	-.086	.003	-.186	-.071	1.17	-.45	-.197	.159	-.159	-.144	-.116	.071	-.010	11.43	
11.44	1.17	1.21	-.172	-.155	-.200	-.082	.002	-.180	-.073	1.16	-.55	-.197	.155	-.160	-.147	-.117	.083	-.004	11.44	
11.45	1.17	1.28	-.174	-.151	-.197	-.081	.012	-.173	-.073	1.16	-.51	-.197	.157	-.161	-.150	-.123	.087	-.004	11.45	
11.46	1.17	1.23	-.170	-.152	-.182	-.074	.007	-.175	-.073	1.16	-.40	-.198	.157	-.164	-.151	-.128	.066	-.006	11.46	
11.47	1.17	1.26	-.175	-.153	-.185	-.069	.011	-.163	-.070	1.16	-.21	-.195	.157	-.164	-.153	-.125	.078	-.011	11.47	
11.48	1.16	1.23	-.174	-.153	-.193	-.082	.004	-.173	-.073	1.16	-.04	-.198	.156	-.162	-.150	-.131	.063	-.009	11.48	
11.49	1.16	1.25	-.173	-.153	-.195	-.083	-.001	-.182	-.074	1.16	-.30	-.196	.156	-.162	-.147	-.127	.043	-.010	11.49	
11.50	1.16	1.29	-.174	-.154	-.199	-.075	.012	-.163	-.073	1.16	-.54	-.197	.156	-.156	-.145	-.131	.027	-.033	11.50	
11.51	1.16	1.26	-.175	-.153	-.200	-.077	.010	-.176	-.071	1.16	-.74	-.197	.157	-.156	-.143	-.130	.017	-.021	11.51	
11.52	1.16	1.24	-.172	-.154	-.206	-.067	.001	-.165	-.071	1.16	-.84	-.198	.158	-.153	-.140	-.127	.010	-.039	11.52	
11.53	1.16	1.27	-.174	-.153	-.185	-.074	.005	-.169	-.070	1.16	-.92	-.196	.157	-.148	-.137	-.126	.005	-.049	11.53	
11.54	1.16	1.26	-.175	-.154	-.194	-.063	.010	-.159	-.073	1.16	-.90	-.196	.157	-.145	-.135	-.117	.004	-.056	11.54	
11.55	1.16	1.24	-.175	-.154	-.193	-.072	.002	-.161	-.076	1.16	-.78	-.196	.158	-.140	-.133	-.118	.002	-.047	11.55	
11.56	1.16	1.23	-.175	-.153	-.187	-.069	.009	-.170	-.076	1.16	-.67	-.196	.159	-.142	-.132	-.110	.012	-.050	11.56	
11.57	1.16	1.23	-.177	-.157	-.190	-.072	.005	-.164	-.072	1.16	-.45	-.195	.158	-.143	-.132	-.108	.018	-.036	11.57	
11.58	1.16	1.24	-.176	-.154	-.189	-.078	.002	-.158	-.072	1.16	-.24	-.195	.160	-.146	-.134	-.105	.026	-.037	11.58	
11.59	1.16	1.24	-.177	-.153	-.196	-.070	.011	-.161	-.074	1.16	-.07	-.194	.159	-.148	-.136	-.105	.037	-.028	11.59	
11.60	1.16	1.21	-.177	-.155	-.201	-.070	.011	-.157	-.075	1.16	-.06	-.196	.159	-.149	-.139	-.104	.046	-.019	11.60	
11.61	1.16	1.23	-.170	-.149	-.200	-.078	.001	-.157	-.071	1.16	-.11	-.196	.159	-.152	-.141	-.105	.054	-.009	11.61	
11.62	1.16	1.22	-.171	-.147	-.192	-.069	.002	-.164	-.071	1.16	-.11	-.196	.161	-.154	-.143	-.107	.064	-.009	11.62	
11.63	1.16	1.25	-.172	-.149	-.199	-.069	.006	-.162	-.075	1.16	-.14	-.196	.160	-.156	-.144	-.113	.065	-.014	11.63	
11.64	1.16	1.24	-.172	-.150	-.200	-.067	.010	-.169	-.075											

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t, sec	M	α, deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α, deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	sec
11.80	1.15	1.14	-.172	-.145	-.206	-.063	.007	-.174	-.075	1.15	.02	-.196	.161	-.153	-.139	-.100	.045	-.021	11.80
11.81	1.15	1.15	-.172	-.143	-.209	-.059	.006	-.166	-.077	1.15	.01	-.196	.163	-.154	-.139	-.096	.047	-.023	11.81
11.82	1.15	1.13	-.170	-.143	-.209	-.068	.008	-.164	-.077	1.15	-.05	-.197	.163	-.155	-.141	-.095	.044	-.023	11.82
11.83	1.15	1.17	-.174	-.139	-.215	-.058	.005	-.171	-.077	1.15	-.15	-.197	.163	-.157	-.142	-.097	.041	-.021	11.83
11.84	1.15	1.14	-.176	-.139	-.226	-.069	.004	-.173	-.077	1.14	-.25	-.197	.163	-.158	-.144	-.105	.035	-.023	11.84
11.85	1.15	1.22	-.172	-.134	-.204	-.084	.008	-.167	-.077	1.14	-.34	-.196	.163	-.158	-.145	-.104	.030	-.023	11.85
11.86	1.15	1.16	-.174	-.134	-.210	-.059	.007	-.163	-.076	1.14	-.44	-.196	.164	-.161	-.148	-.110	.024	-.023	11.86
11.87	1.15	1.11	-.175	-.132	-.225	-.068	.024	-.171	-.078	1.14	-.48	-.196	.163	-.161	-.150	-.114	.018	-.028	11.87
11.88	1.14	1.25	-.176	-.134	-.221	-.056	.009	-.172	-.079	1.14	-.55	-.195	.163	-.160	-.149	-.111	.015	-.037	11.88
11.89	1.14	1.23	-.175	-.135	-.220	-.060	.008	-.157	-.078	1.14	-.57	-.195	.165	-.161	-.149	-.117	.012	-.038	11.89
11.90	1.14	1.24	-.176	-.138	-.212	-.062	.012	-.168	-.077	1.14	-.55	-.196	.163	-.161	-.151	-.112	.012	-.039	11.90
11.91	1.14	1.26	-.176	-.144	-.208	-.052	.010	-.175	-.066	1.14	-.56	-.195	.162	-.161	-.151	-.119	.011	-.041	11.91
11.92	1.14	1.21	-.175	-.147	-.211	-.065	.012	-.170	-.069	1.14	-.48	-.195	.162	-.152	-.150	-.117	.014	-.028	11.92
11.93	1.14	1.28	-.178	-.149	-.202	-.067	.005	-.159	-.068	1.14	-.41	-.195	.164	-.162	-.147	-.106	.015	-.025	11.93
11.94	1.14	1.29	-.177	-.148	-.185	-.055	.016	-.155	-.069	1.14	-.33	-.195	.164	-.161	-.145	-.110	.021	-.018	11.94
11.95	1.14	1.18	-.178	-.149	-.202	-.066	.009	-.151	-.069	1.14	-.27	-.194	.162	-.157	-.145	-.101	.028	-.020	11.95
11.96	1.14	1.16	-.178	-.147	-.203	-.061	.004	-.166	-.073	1.14	-.22	-.194	.163	-.156	-.142	-.101	.032	-.020	11.96
11.97	1.14	1.15	-.180	-.142	-.183	-.057	.005	-.170	-.075	1.14	-.13	-.194	.166	-.158	-.141	-.099	.037	-.023	11.97
11.98	1.14	1.20	-.178	-.142	-.208	-.057	.004	-.180	-.077	1.14	-.10	-.195	.165	-.157	-.140	-.095	.041	-.023	11.98
11.99	1.14	1.14	-.178	-.137	-.207	-.069	.071	-.171	-.078	1.14	-.09	-.195	.163	-.158	-.139	-.094	.044	-.016	11.99
12.00	1.14	1.15	-.180	-.137	-.223	-.061	.007	-.170	-.082	1.14	-.12	-.195	.163	-.156	-.142	-.095	.041	-.022	12.00
										1.14	-.17	-.194	.163	-.160	-.143	-.094	.040	-.024	12.01
										1.14	-.20	-.195	.162	-.157	-.143	-.094	.036	-.027	12.02
										1.14	-.28	-.195	.163	-.159	-.143	-.093	.031	-.028	12.03
										1.13	-.33	-.196	.164	-.160	-.143	-.095	.024	-.028	12.04
										1.13	-.42	-.195	.162	-.161	-.144	-.095	.020	-.022	12.05
										1.13	-.45	-.195	.162	-.162	-.146	-.097	.015	-.023	12.06
										1.13	-.50	-.196	.163	-.163	-.146	-.096	.011	-.028	12.07
										1.13	-.51	-.196	.163	-.162	-.149	-.096	.009	-.029	12.08
										1.13	-.49	-.196	.164	-.165	-.150	-.096	.010	-.029	12.09
										1.13	-.47	-.196	.163	-.161	-.150	-.096	.012	-.030	12.10
										1.13	-.43	-.195	.163	-.163	-.151	-.096	.014	-.024	12.11
										1.13	-.38	-.196	.160	-.167	-.150	-.096	.019	-.022	12.12
										1.13	-.34	-.198	.158	-.168	-.151	-.095	.024	-.002	12.13
										1.13	-.29	-.197	.161	-.167	-.150	-.093	.031	-.012	12.14
										1.13	-.26	-.196	.160	-.168	-.150	-.093	.034	-.016	12.15
										1.13	-.23	-.195	.158	-.167	-.149	-.093	.037	-.017	12.16
										1.13	-.23	-.196	.156	-.166	-.152	-.094	.037	-.019	12.17
										1.13	-.21	-.195	.158	-.167	-.148	-.094	.040	-.017	12.18
										1.13	-.21	-.195	.159	-.165	-.148	-.092	.039	-.018	12.19
										1.13	-.22	-.194	.158	-.164	-.144	-.091	.038	-.018	12.20
										1.13	-.29	-.195	.158	-.168	-.142	-.090	.034	-.018	12.21
										1.13	-.26	-.195	.158	-.167	-.139	-.090	.034	-.018	12.22
										1.12	-.32	-.196	.157	-.167	-.140	-.092	.030	-.018	12.23
										1.12	-.35	-.196	.159	-.165	-.142	-.092	.025	-.019	12.24
										1.12	-.40	-.194	.156	-.166	-.140	-.091	.019	-.019	12.25
										1.12	-.45	-.195	.158	-.166	-.140	-.092	.015	-.019	12.26
										1.12	-.46	-.197	.157	-.166	-.140	-.091	.014	-.020	12.27
										1.12	-.44	-.195	.157	-.166	-.142	-.093	.014	-.020	12.28
										1.12	-.45	-.196	.157	-.168	-.143	-.094	.016	-.017	12.29
										1.12	-.43	-.195	.157	-.168	-.143	-.093	.017	-.025	12.30
										1.12	-.39	-.194	.156	-.169	-.142	-.090	.018	-.024	12.31
										1.12	-.36	-.195	.156	-.169	-.143	-.092	.019	-.024	12.32
										1.12	-.36	-.194	.157	-.171	-.147	-.091	.021	-.025	12.33
										1.12	-.36	-.194	.156	-.173	-.148	-.092	.025	-.025	12.34
										1.12	-.30	-.194	.156	-.175	-.148	-.093	.027	-.026	12.35
										1.12	-.31	-.194	.157	-.174	-.147	-.092	.029	-.026	12.36
										1.12	-.28	-.194	.157	-.176	-.146	-.092	.033	-.017	12.37
										1.12	-.28	-.193	.155	-.172	-.143	-.091	.035	-.017	12.38
										1.12	-.29	-.193	.157	-.173	-.147	-.091	.035	-.007	12.39
										1.12	-.32	-.193	.156	-.173	-.144	-.092	.031	-.005	12.40
										1.12	-.37	-.196	.159	-.174	-.141	-.087	.033	-.020	12.41
										1.12	-.36	-.195	.159	-.174	-.139	-.087	.033	-.008	12.42
										1.11	-.38	-.196	.159	-.173	-.137	-.088	.033	-.015	12.43
										1.11	-.37	-.194	.158	-.173	-.138	-.090	.032	-.016	12.44
										1.11	-.37	-.195	.158	-.171	-.136	-.088	.030	-.001	12.45
										1.11	-.01	-.196	.158	-.173	-.133	-.088	.031	-.012	12.46
										1.11	-.46	-.197	.157	-.173	-.135	-.090	.031	-.004	12.47
										1.11	-.40	-.194	.159	-.170	-.135	-.087	.032	-.012	12.48
										1.11	-.40	-.195	.159	-.174	-.136	-.085	.032	-.013	12.49
										1.11	-.37	-.195	.159	-.173	-.137	-.089	.033	-.013	12.50
										1.11	-.41	-.195	.159	-.176	-.138	-.088	.032	-.016	12.51
										1.11	-.37	-.194	.158	-.177	-.140	-.087	.033	-.016	12.52
										1.11	-.36	-.195	.158	-.177	-.139	-.089	.033	-.017	12.53
										1.11	-.36	-.195	.162	-.177	-.138	-.083	.034	-.018	12.54
										1.11	-.37	-.195	.156	-.178	-.145	-.086	.034	-.000	12.55
										1.11	-.37	-.196	.156	-.178	-.143	-.086	.034	-.008	12.56
										1.11	-.35	-.195	.157	-.178	-.144	-.086	.035	-.004	12.57
										1.11	-.37	-.195	.156	-.180	-.144	-.090	.035	-.006	12.58
										1.11	-.37	-.196	.157	-.179	-.145	-.089	.037	-.002	12.59

TABLE III.- Concluded
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Concluded

Model III										Model IV									
t_2 sec	M	α deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t_2 sec
1.11		-0.37	-0.195		.156	-0.178	-0.143	-0.088	.034	-0.008	12.60								
1.11		-0.41	-0.197		.160	-0.182	-0.141	-0.085	.034	-0.025	12.61								
1.11		-0.40	-0.197		.159	-0.180	-0.139	-0.084	.034	-0.023	12.62								
1.10		-0.41	-0.197		.159	-0.181	-0.139	-0.083	.034	-0.019	12.63								
1.10		-0.41	-0.196		.159	-0.180	-0.135	-0.084	.035	-0.005	12.64								
1.10		-0.41	-0.195		.160	-0.176	-0.134	-0.086	.035	-0.018	12.65								
1.10		-0.37	-0.195		.159	-0.178	-0.134	-0.086	.038	-0.012	12.66								
1.10		-0.40	-0.196		.158	-0.178	-0.132	-0.084	.039	-0.013	12.67								
1.10		-0.37	-0.197		.158	-0.177	-0.130	-0.084	.042	-0.018	12.68								
1.10		-0.38	-0.197		.159	-0.177	-0.131	-0.083	.041	-0.025	12.69								
1.10		-0.38	-0.195		.160	-0.176	-0.129	-0.083	.041	-0.020	12.70								
1.10		-0.38	-0.195		.160	-0.177	-0.128	-0.084	.043	-0.021	12.71								
1.10		-0.39	-0.195		.159	-0.178	-0.129	-0.083	.043	-0.008	12.72								
1.10		-0.38	-0.194		.160	-0.178	-0.129	-0.083	.044	-0.019	12.73								
1.10		-0.39	-0.195		.161	-0.178	-0.128	-0.084	.044	-0.021	12.74								
1.10		-0.37	-0.194		.160	-0.179	-0.131	-0.083	.045	-0.011	12.75								
1.10		-0.40	-0.193		.163	-0.179	-0.132	-0.083	.045	-0.017	12.76								
1.10		-0.40	-0.193		.161	-0.180	-0.132	-0.084	.046	-0.012	12.77								
1.10		-0.42	-0.194		.160	-0.180	-0.135	-0.086	.046	-0.002	12.78								
1.10		-0.40	-0.194		.159	-0.181	-0.133	-0.084	.047	-0.017	12.79								
1.10		-0.40	-0.194		.158	-0.180	-0.135	-0.084	.048	-0.021	12.80								
1.10		-0.44	-0.195		.162	-0.184	-0.132	-0.081	.046	-0.012	12.81								
1.10		-0.43	-0.195		.161	-0.184	-0.134	-0.082	.048	-0.016	12.82								
1.09		-0.42	-0.195		.162	-0.183	-0.135	-0.082	.048	-0.012	12.83								
1.09		-0.45	-0.195		.162	-0.185	-0.135	-0.080	.049	-0.010	12.84								
1.09		-0.41	-0.195		.161	-0.184	-0.133	-0.081	.050	-0.015	12.85								
1.09		-0.39	-0.197		.162	-0.184	-0.132	-0.082	.050	-0.025	12.86								
1.09		-0.40	-0.195		.162	-0.184	-0.129	-0.081	.052	-0.017	12.87								
1.09		-0.39	-0.194		.162	-0.183	-0.128	-0.082	.053	-0.014	12.88								
1.09		-0.39	-0.195		.162	-0.183	-0.127	-0.081	.053	-0.034	12.89								
1.09		-0.36	-0.194		.161	-0.181	-0.124	-0.079	.054	-0.020	12.90								
1.09		-0.37	-0.193		.160	-0.181	-0.124	-0.082	.054	-0.021	12.91								
1.09		-0.38	-0.194		.163	-0.180	-0.122	-0.079	.054	-0.001	12.92								
1.09		-0.38	-0.192		.161	-0.178	-0.118	-0.082	.053	-0.020	12.93								
1.09		-0.40	-0.193		.163	-0.178	-0.122	-0.079	.053	-0.016	12.94								
1.09		-0.41	-0.193		.161	-0.178	-0.119	-0.080	.053	-0.017	12.95								
1.09		-0.41	-0.192		.161	-0.179	-0.121	-0.081	.051	-0.024	12.96								
1.09		-0.42	-0.193		.163	-0.180	-0.120	-0.077	.051	-0.013	12.97								
1.09		-0.44	-0.192		.163	-0.181	-0.122	-0.079	.051	-0.005	12.98								
1.09		-0.44	-0.192		.162	-0.184	-0.123	-0.079	.051	-0.016	12.99								
1.09		-0.45	-0.192		.160	-0.181	-0.125	-0.080	.048	-0.012	13.00								

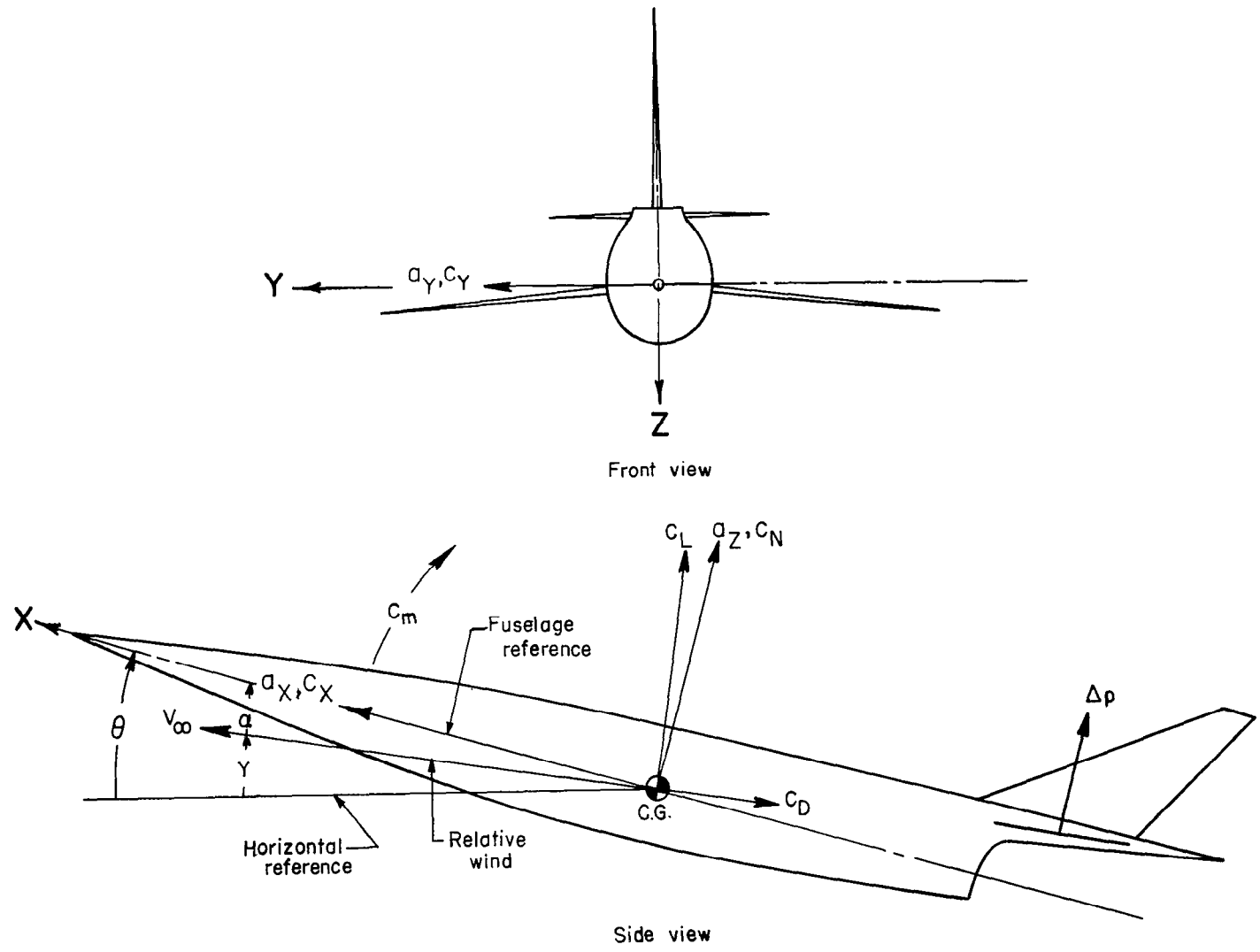


Figure 1.- Body-axis system used in the analysis. Positive directions, forces, moments and pressures indicated by arrows.

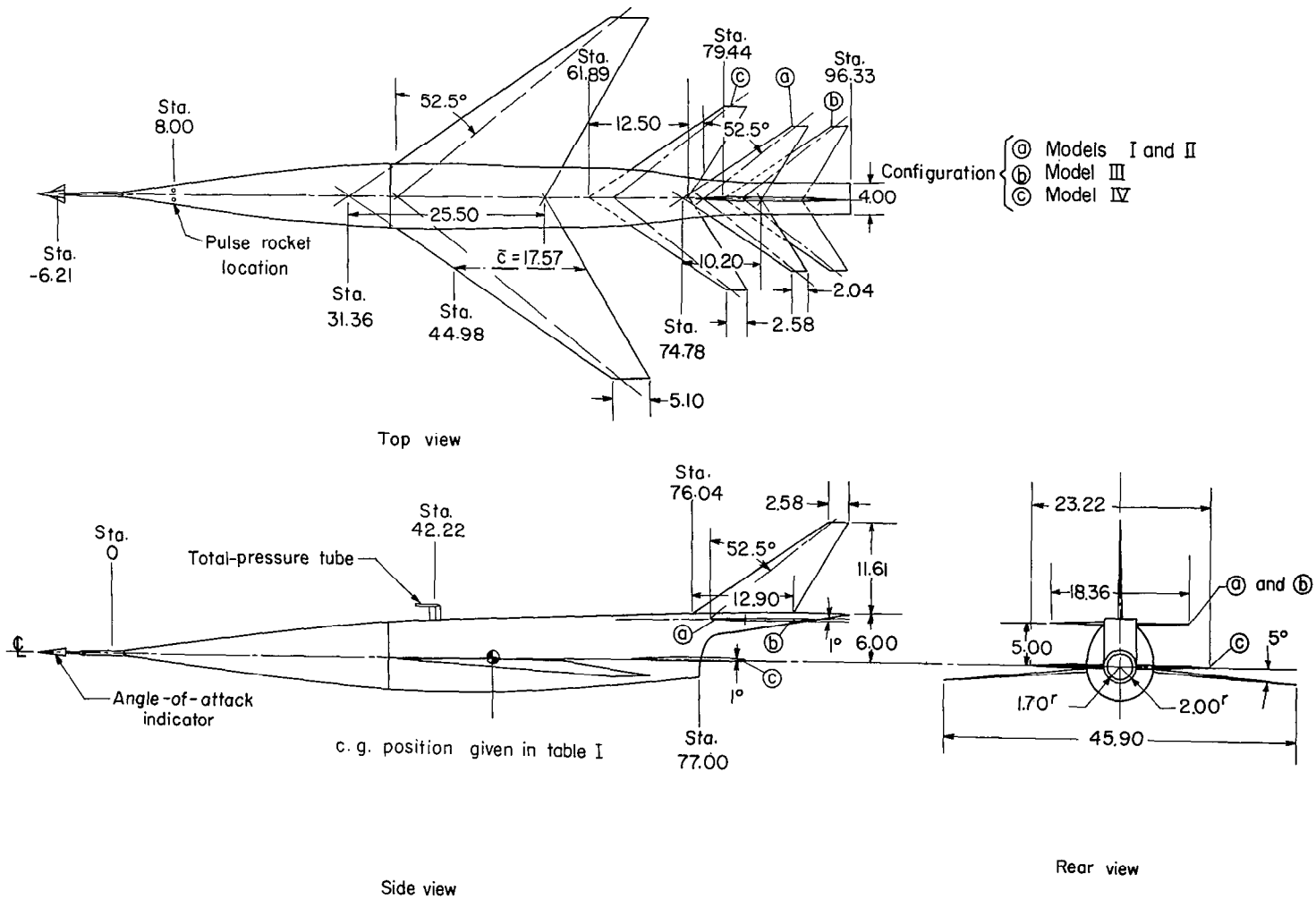


Figure 2.- Sketch of models tested.

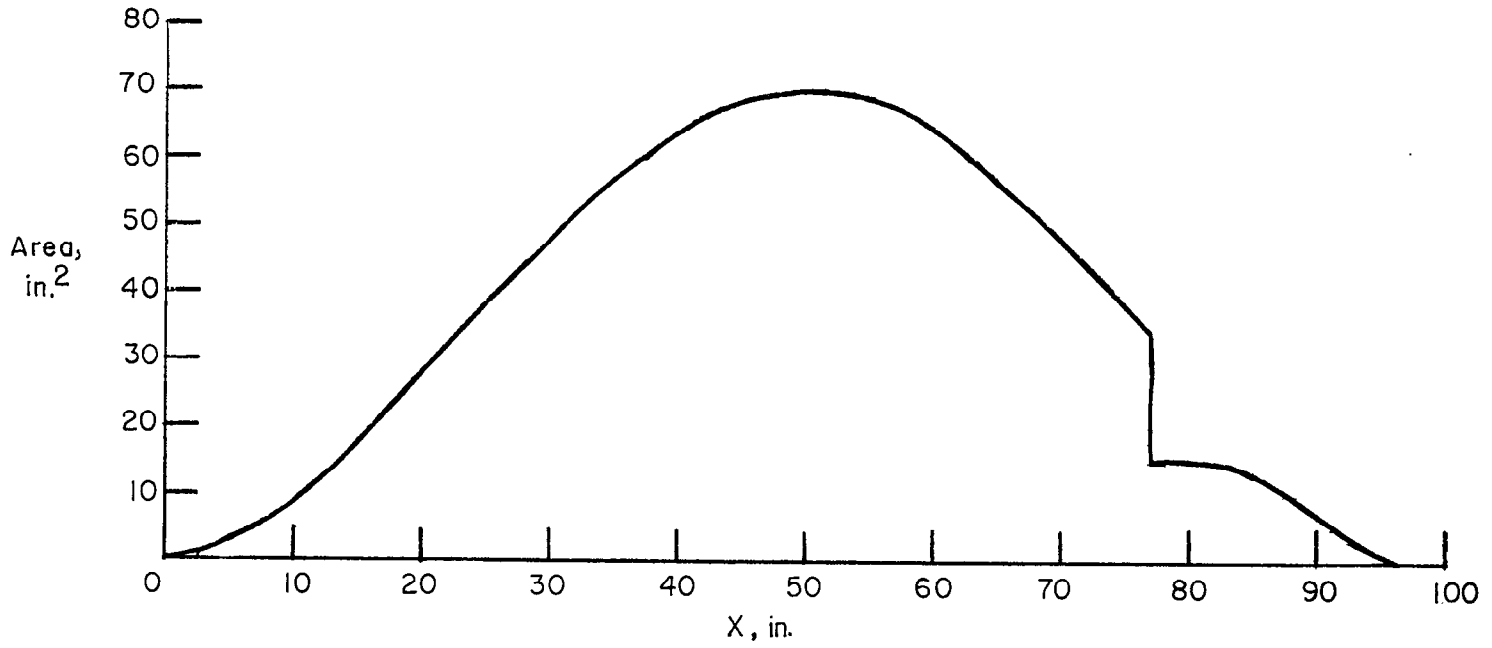


Figure 3.- Normal area distribution.

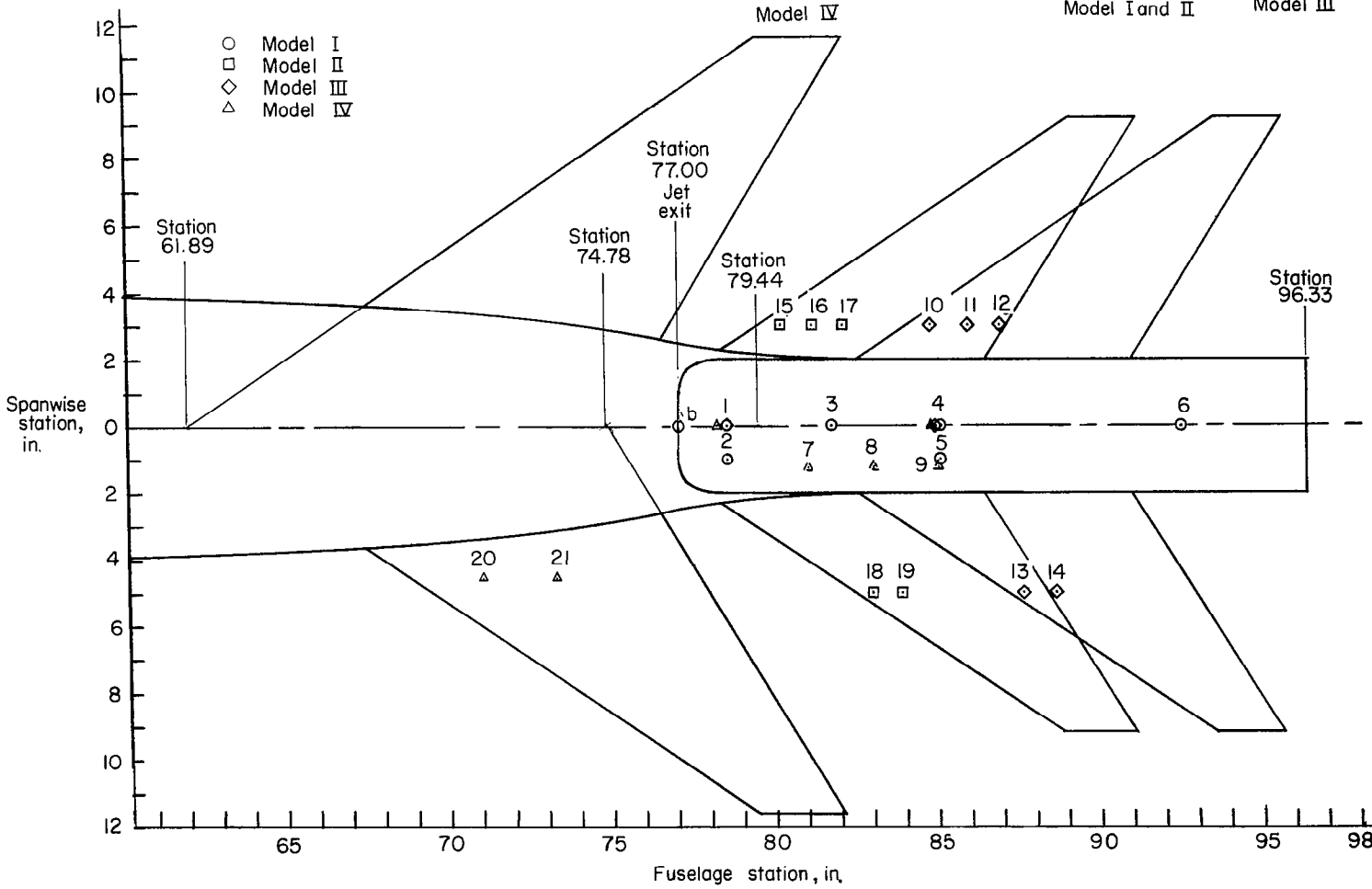
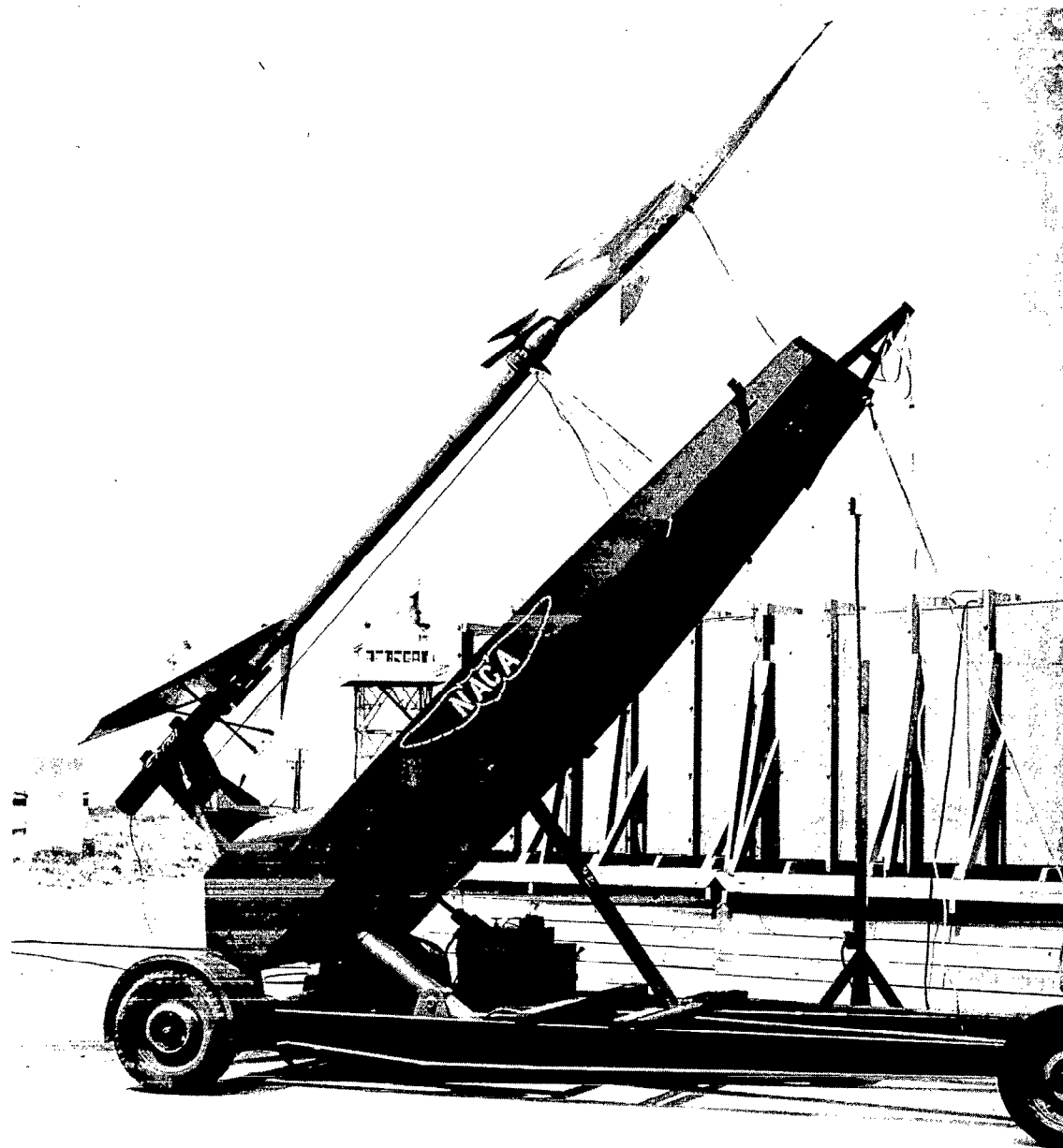
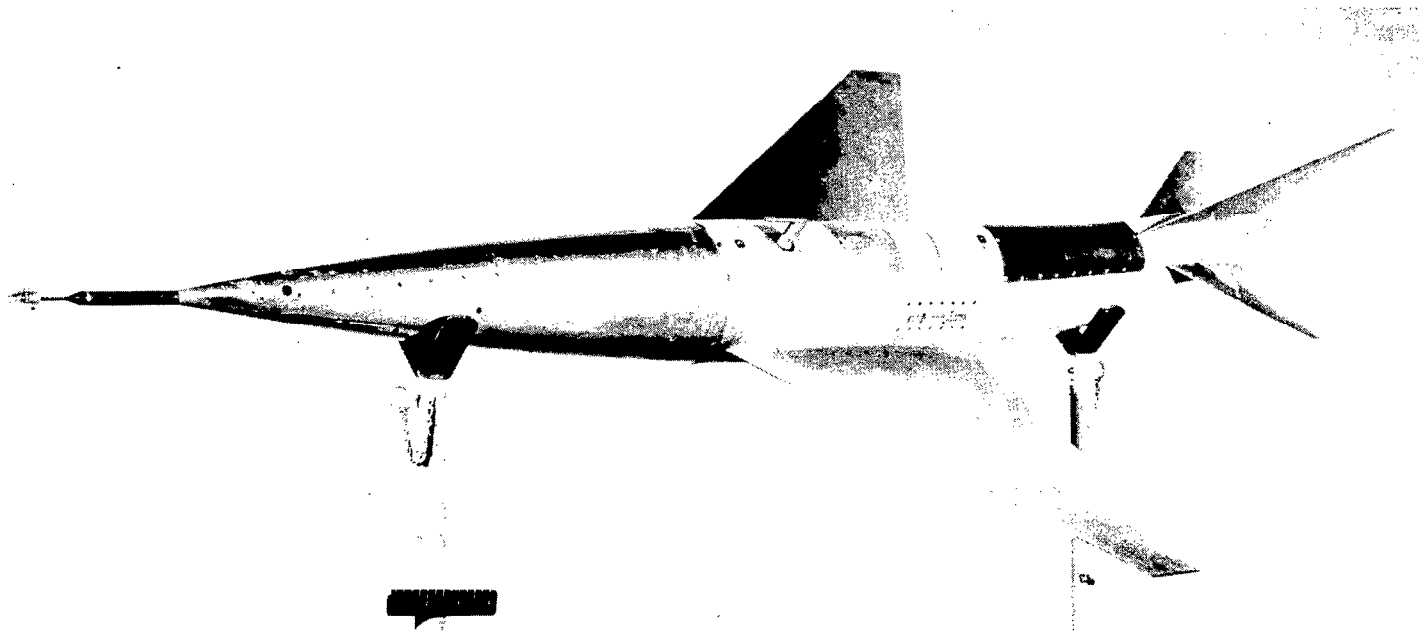


Figure 4.- Drawing of the rear portion of the fuselage showing the three tail positions and the orifice locations.



(a) Model I on launcher. L-90106

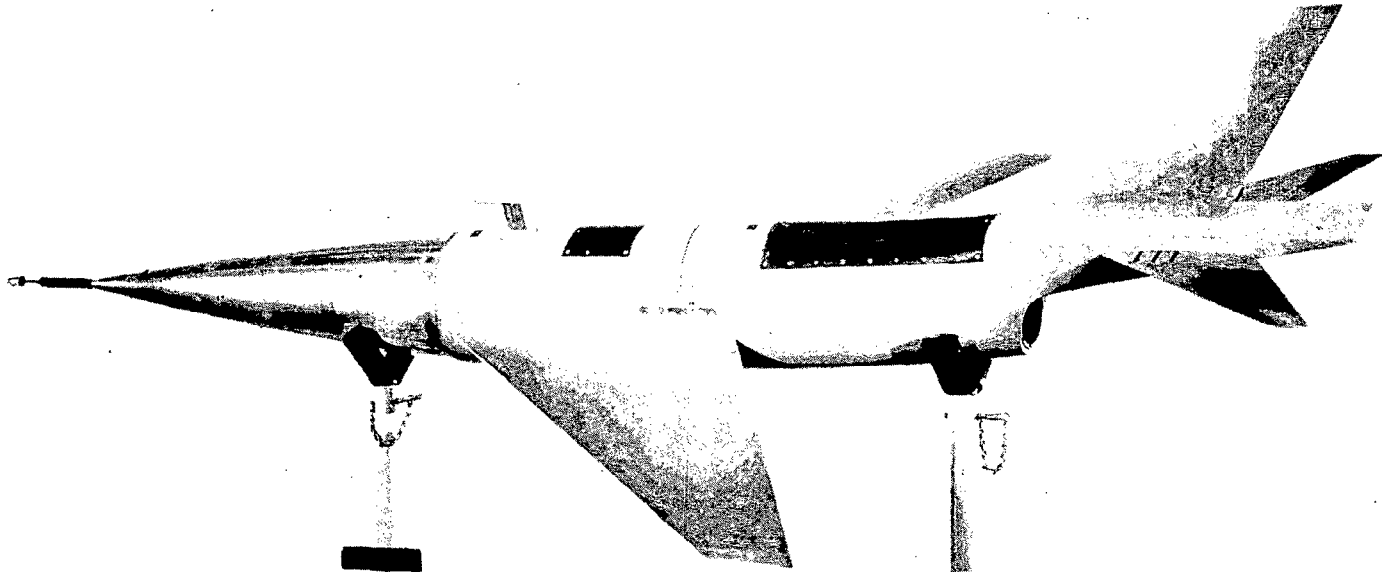
Figure 5.- Photographs of model.



(b) Model II.

L-91578

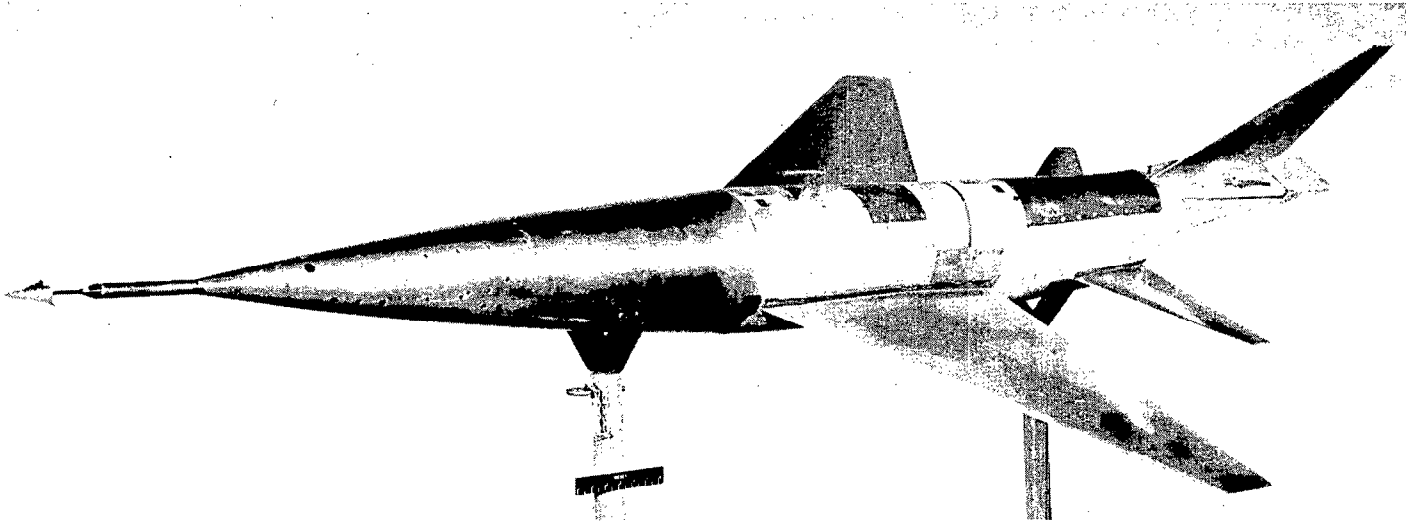
Figure 5.- Continued.



(c) Model III.

L-90655

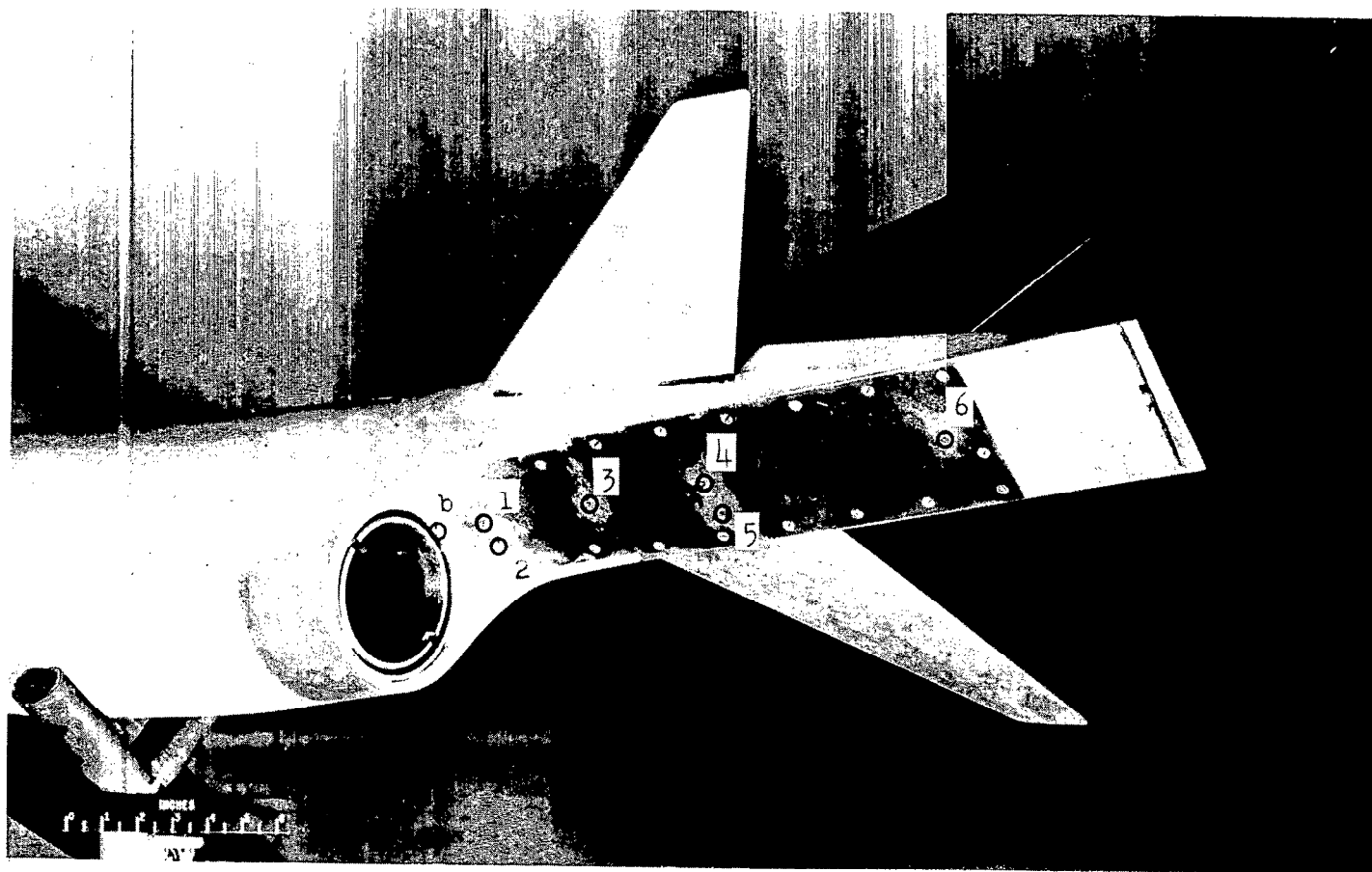
Figure 5.- Continued.



(d) Model IV.

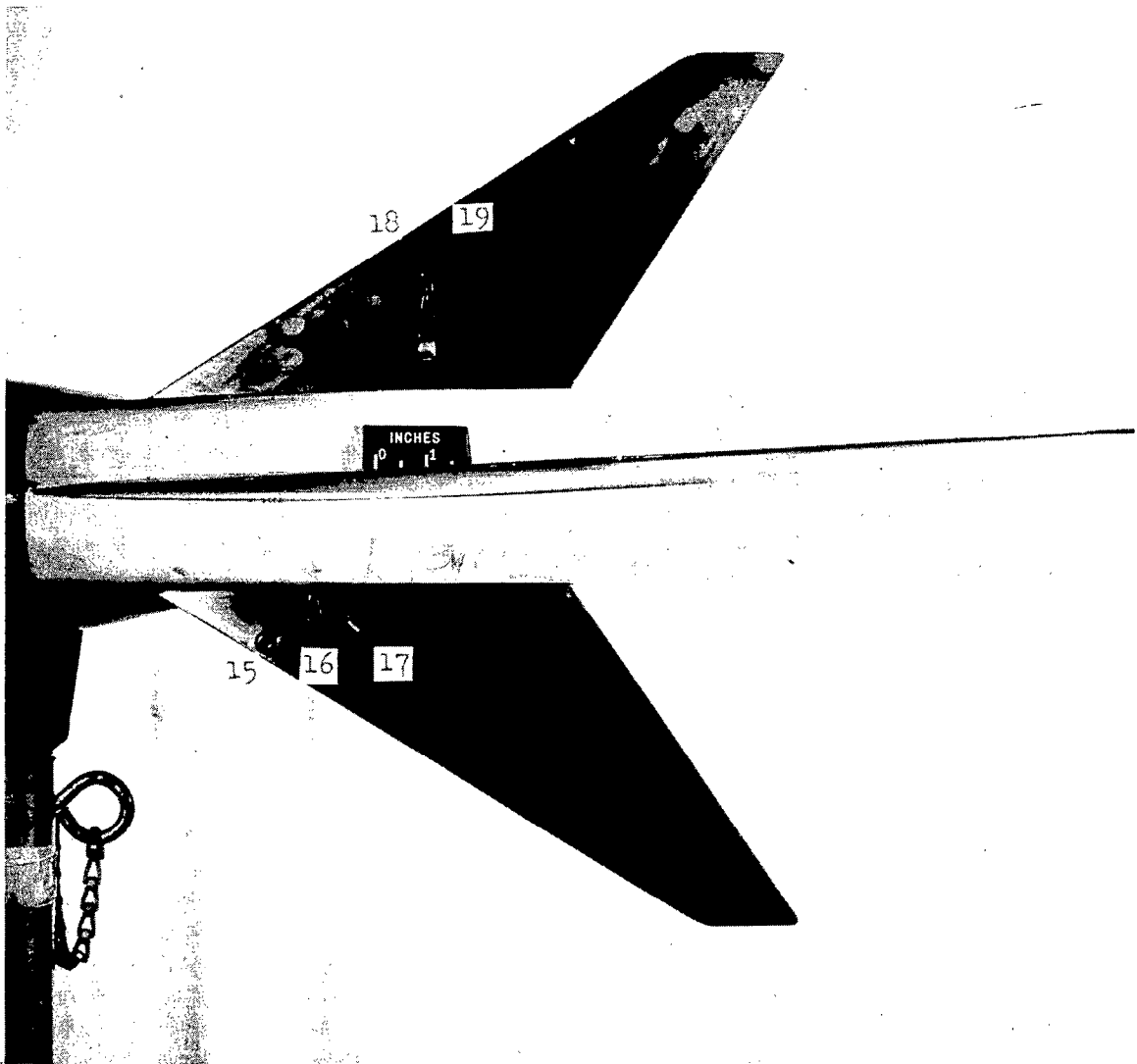
L-92756

Figure 5.- Continued.



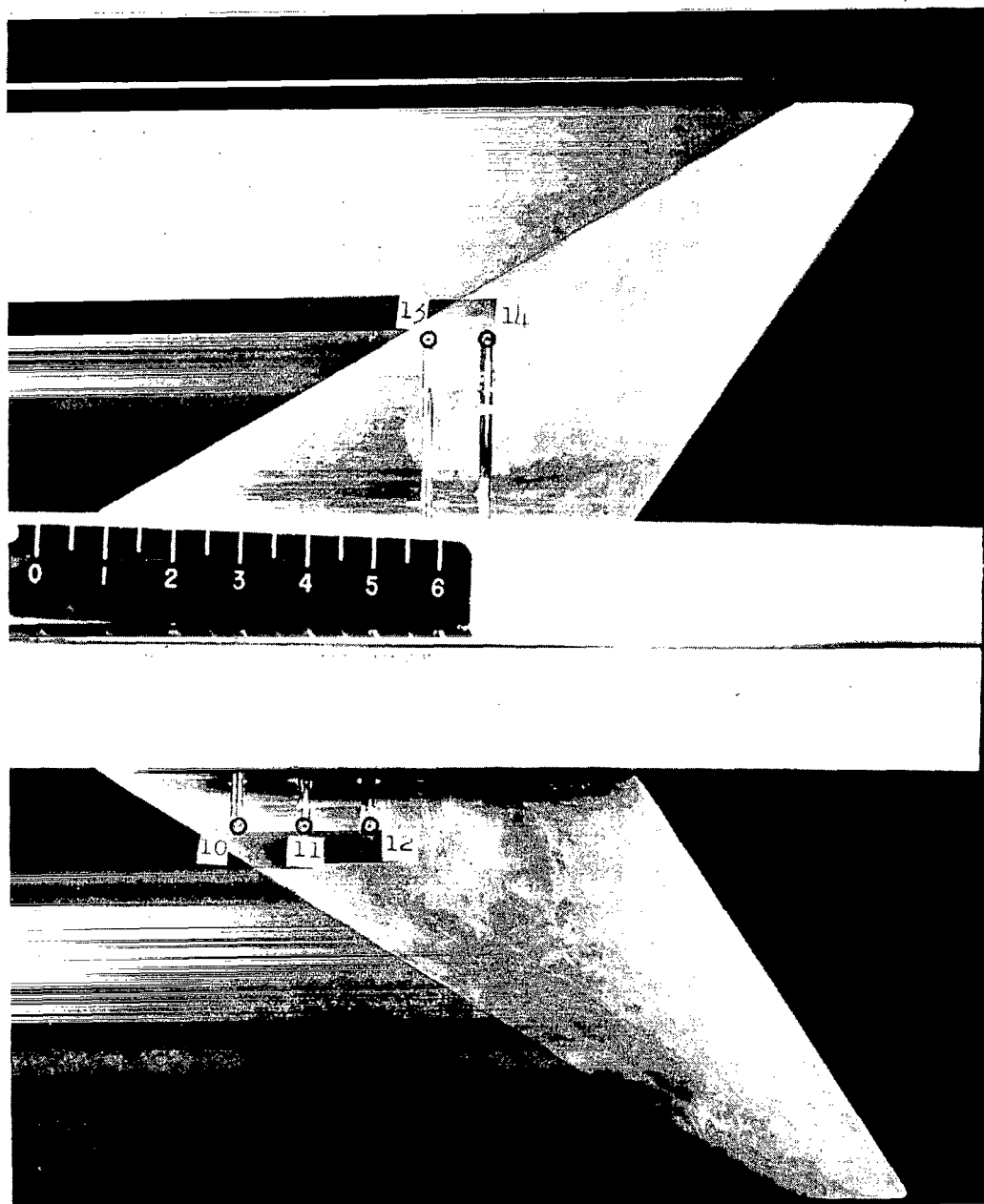
(e) View of model I boom showing boom pressure orifices. L-89721.1

Figure 5.- Continued.



L-91580.1
(f) View of model II tail showing tail pressure orifices.

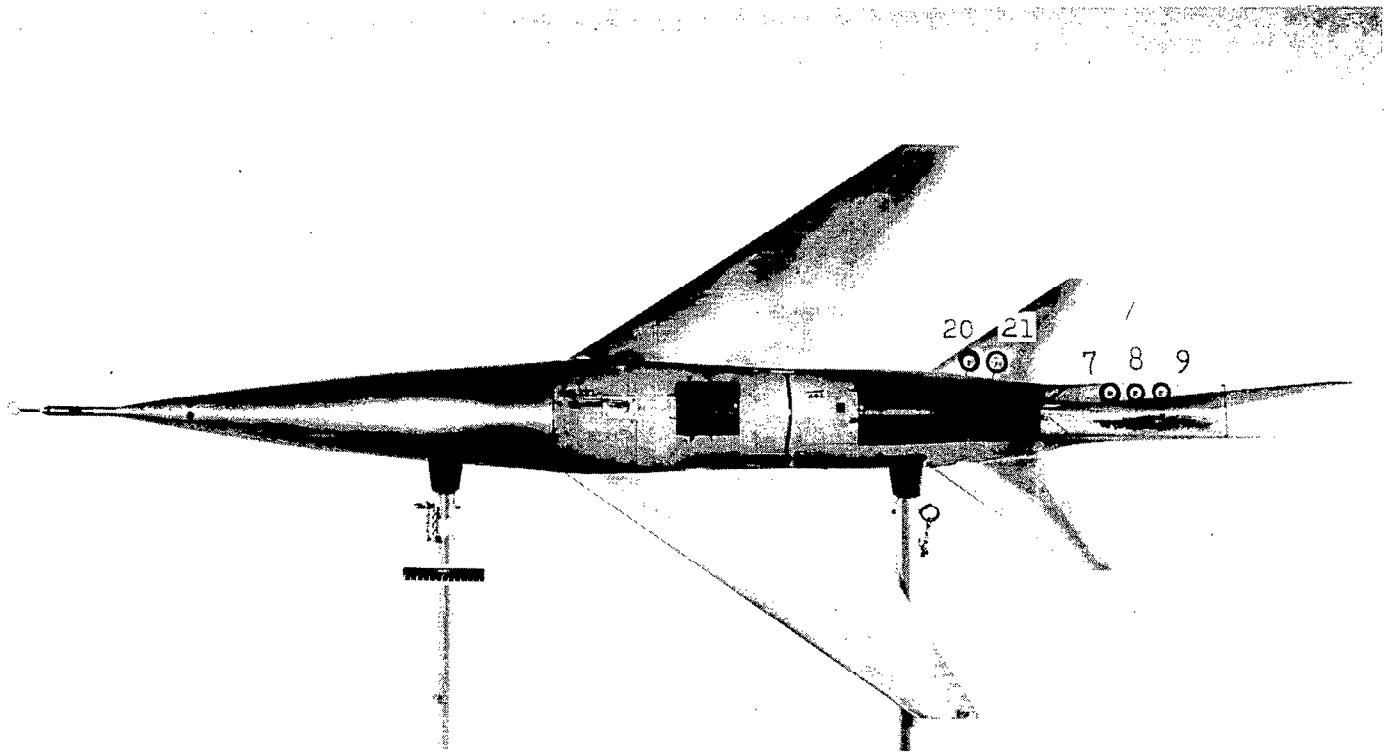
Figure 5.- Continued.



L-90656.1

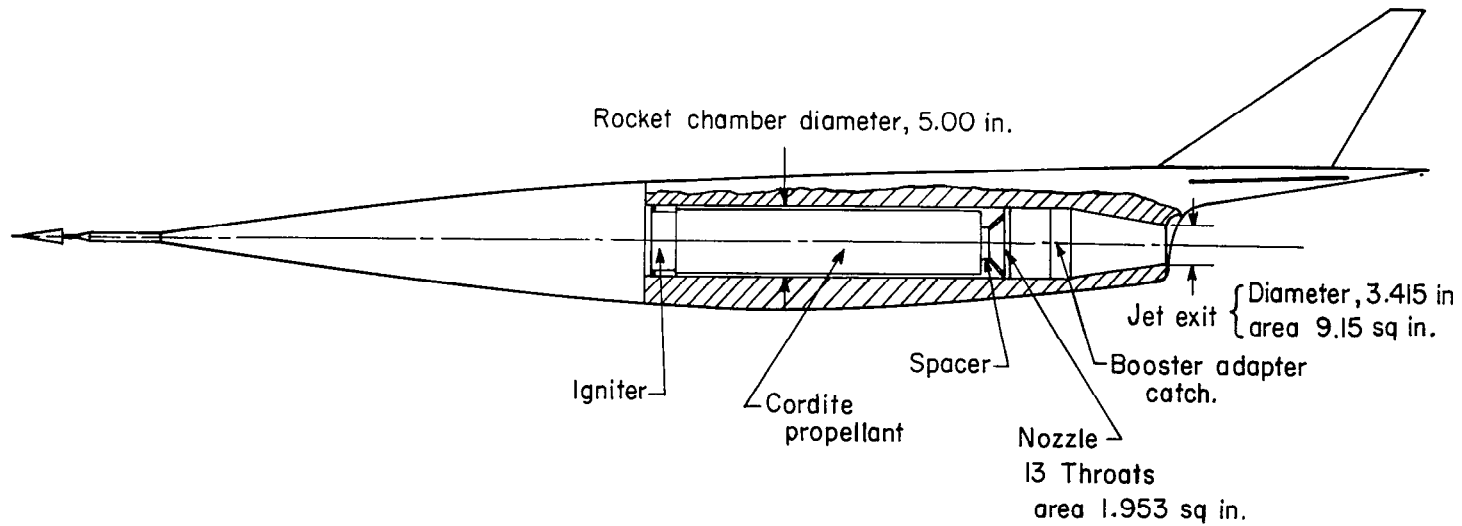
(g) View of model III tail showing tail pressure orifices.

Figure 5.- Continued.



(h) Plan-form view of model IV showing tail and top boom pressure orifices. L-92755.1

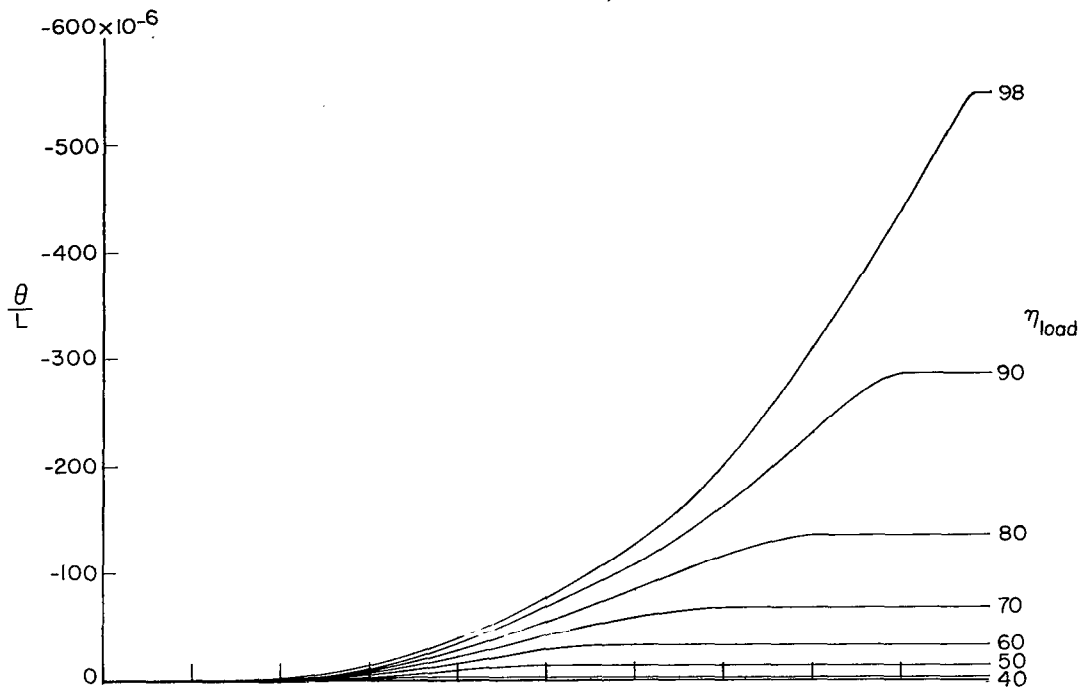
Figure 5.- Concluded.



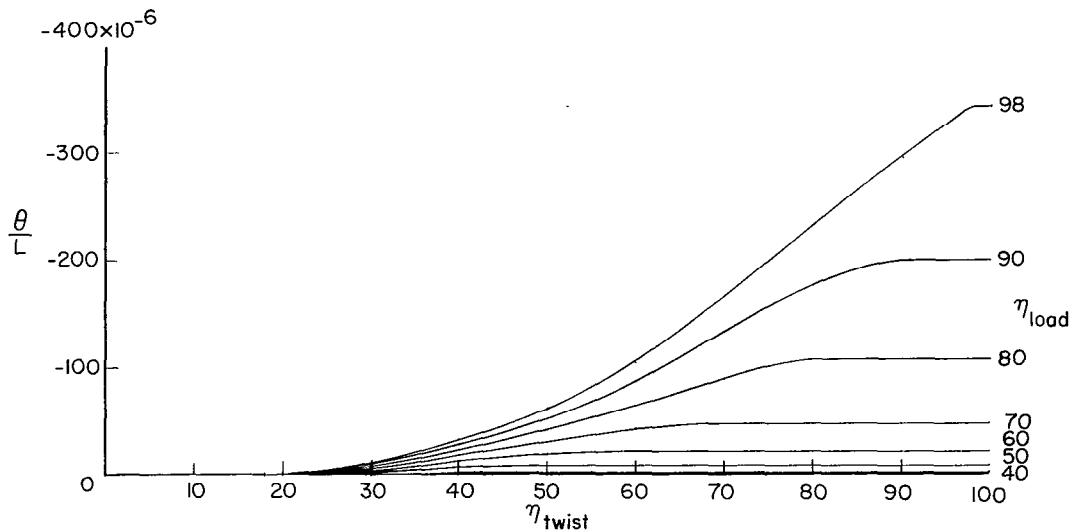
Jet Operating Characteristics Obtained From
A Static Ground Firing

- Total temperature of the jet, 3,680° R
- Velocity of the jet, 2,810 ft/sec
- Weight flow, 5.26 lb/sec, average
- Thrust, 741 lb
- Jet total pressure, 81.8 lb/sq in. abs
- Jet static pressure, 45.6 lb/sq in. abs
- Ratio of specific heats, 1.24

Figure 6.- Turbojet simulator description.

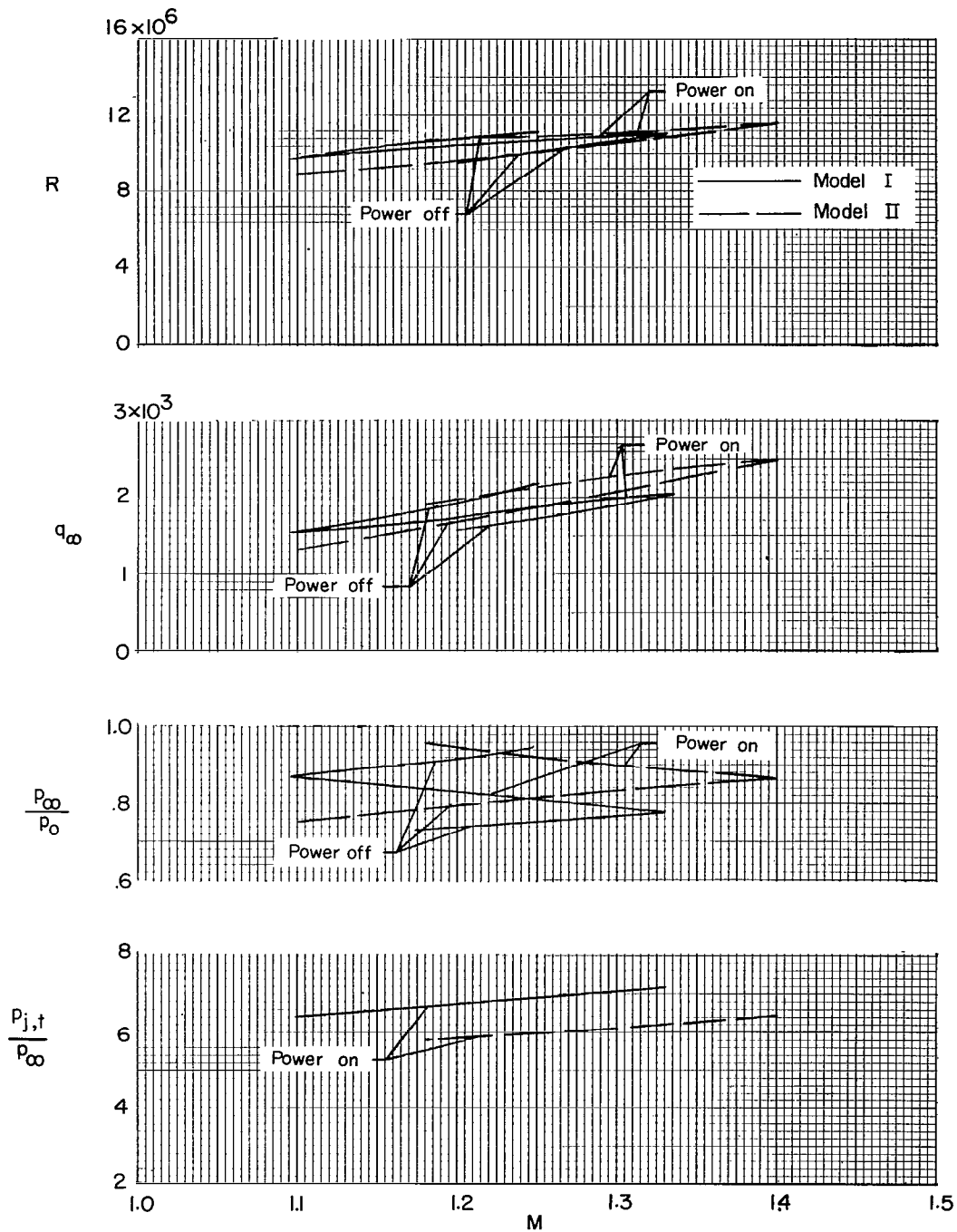


(a) Wing 50-percent-chord loading.



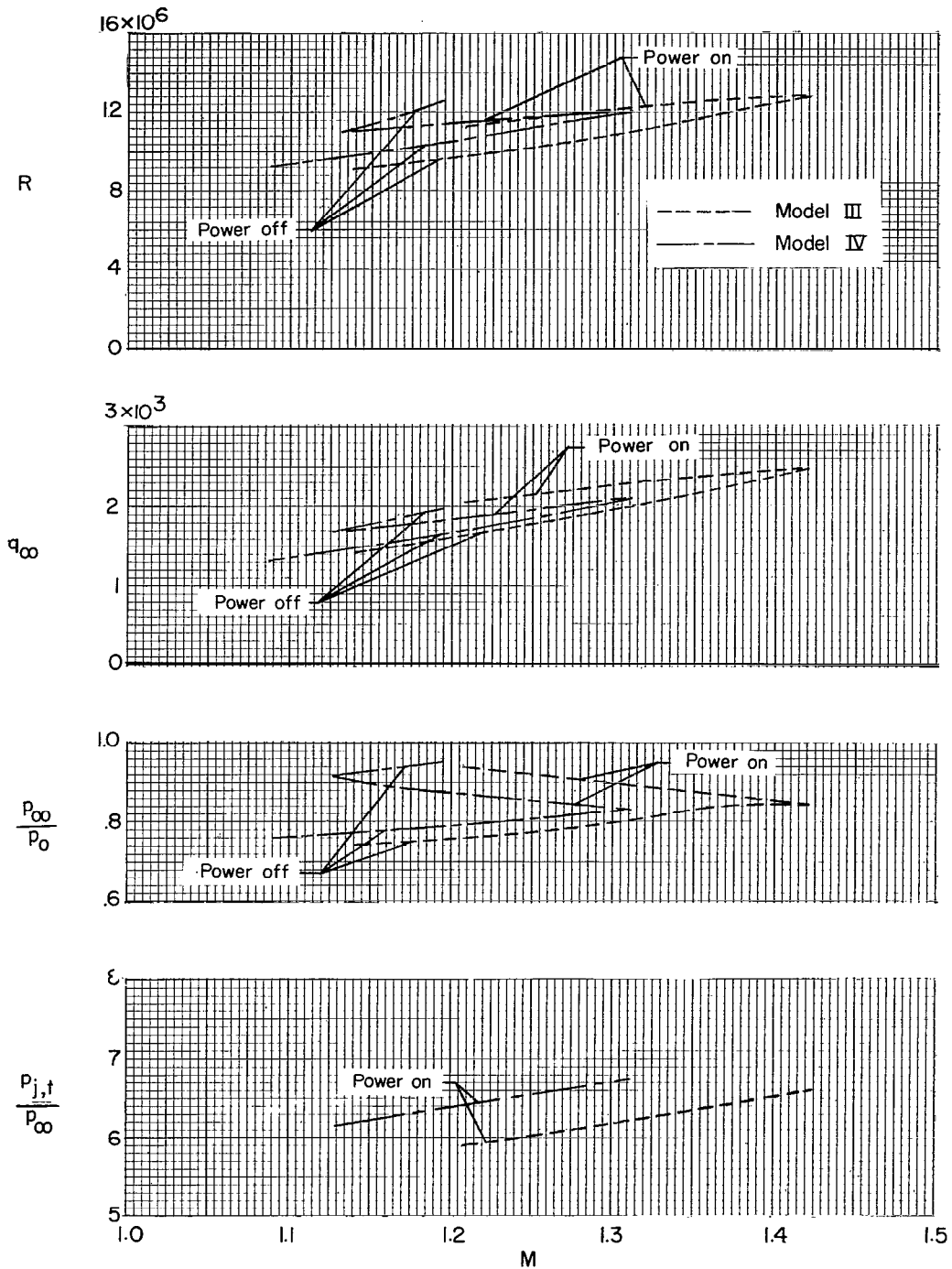
(b) Wing 25-percent-chord loading.

Figure 7.- Influence coefficients of twist in the free-stream direction per unit load applied at various stations along the span.



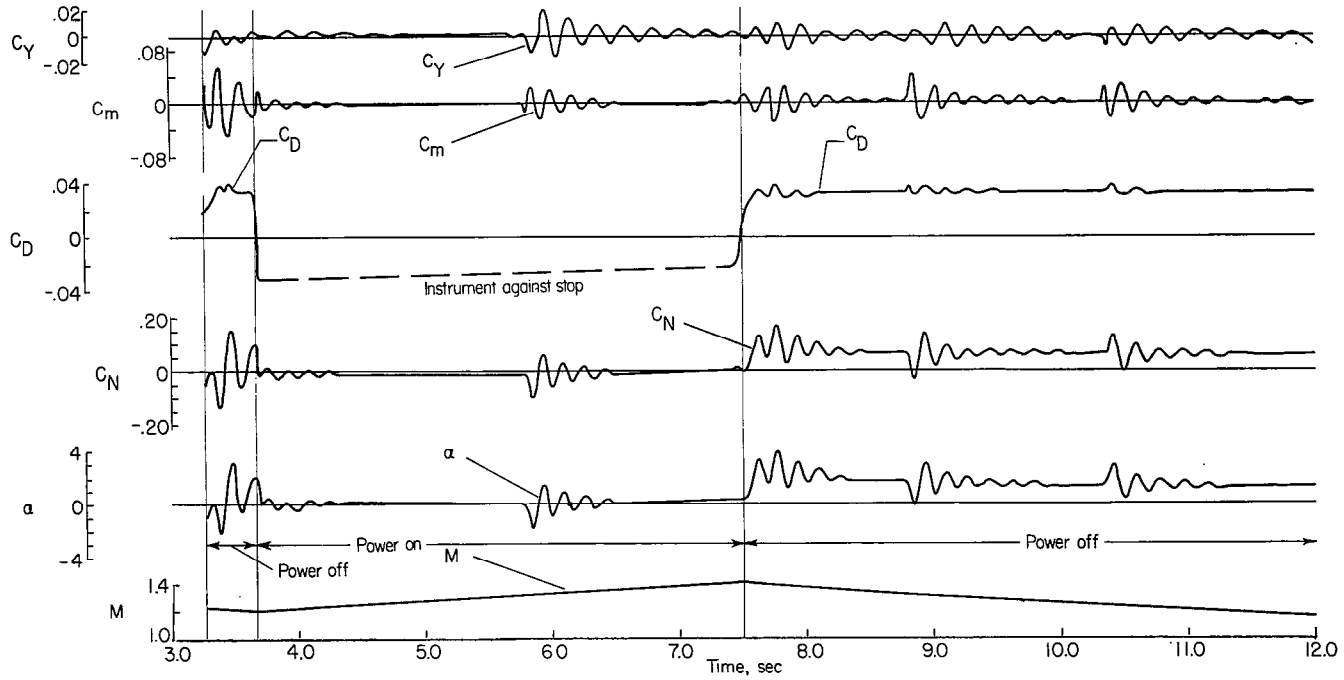
(a) Models I and II.

Figure 8.- Test conditions.



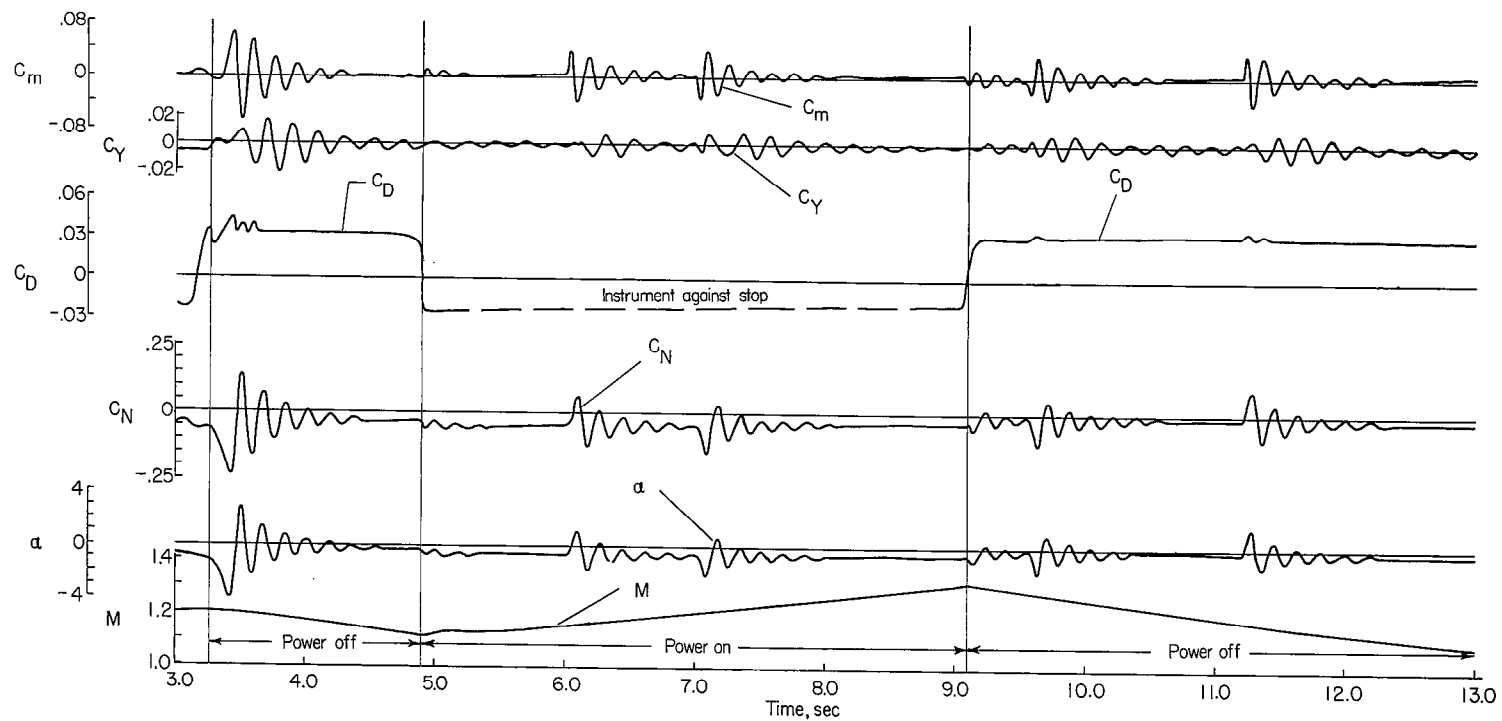
(b) Models III and IV.

Figure 8.- Concluded.



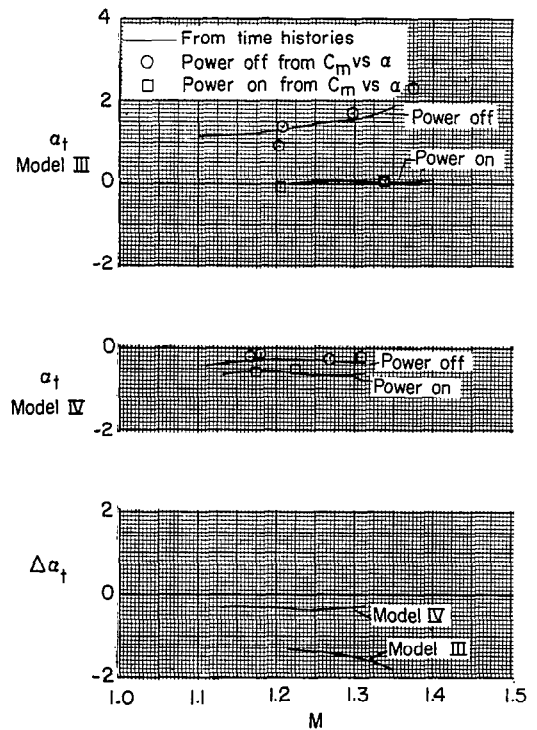
(a) Model III.

Figure 9.- Partial time histories of the basic quantities.

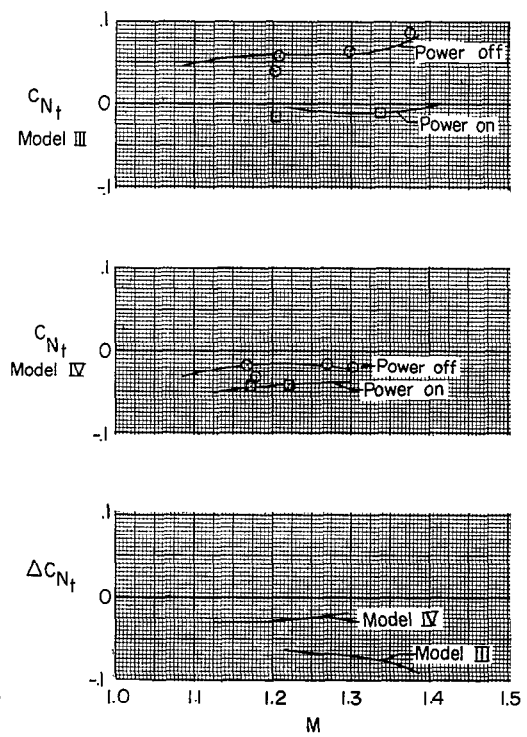


(b) Model IV.

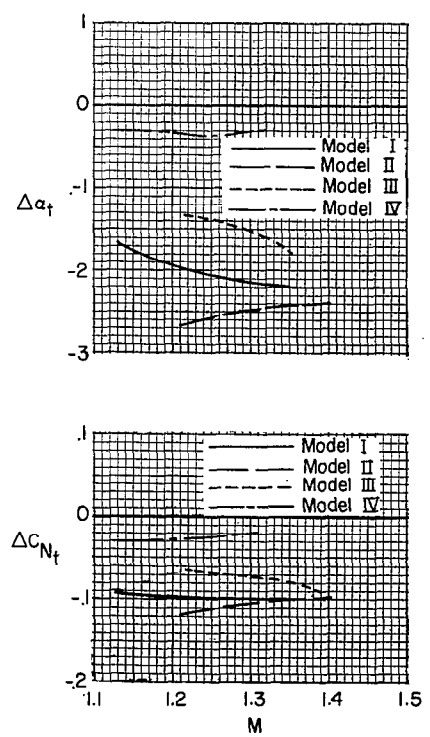
Figure 9.- Concluded.



(a) α_t for models III and IV.

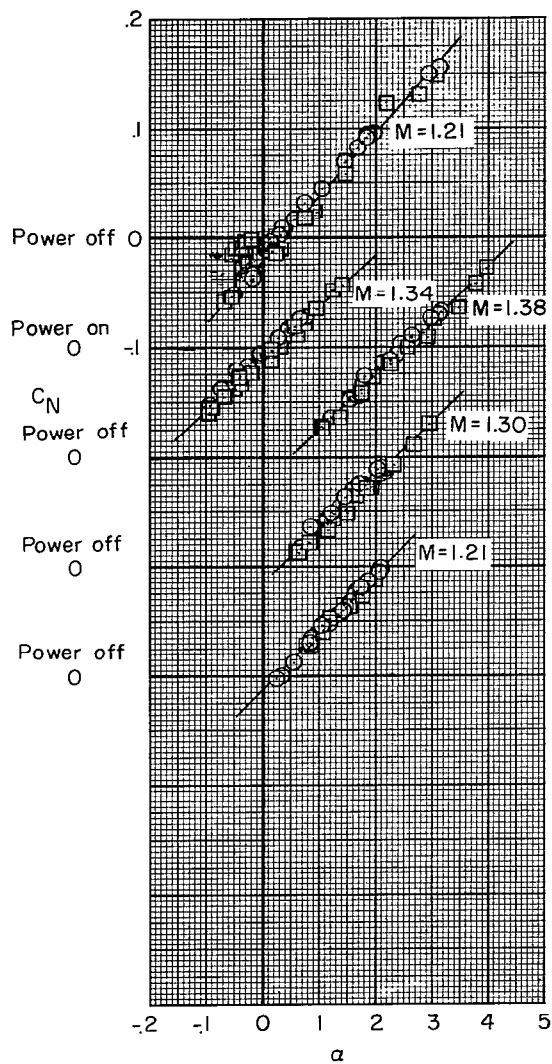


(b) C_{N_t} for models III and IV.

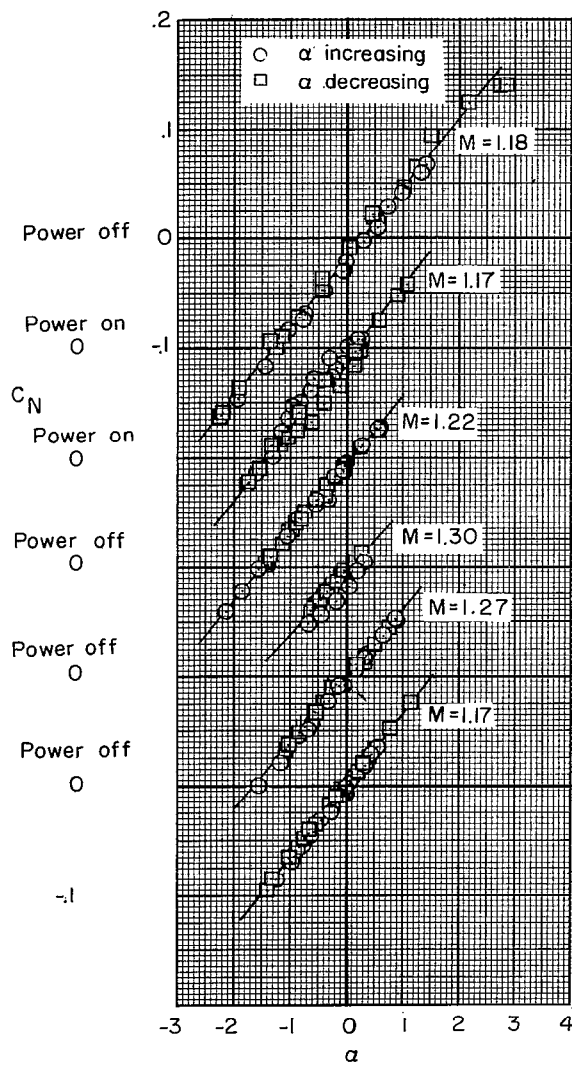


(c) Trim summary for all models.

Figure 10.- Trim characteristics.

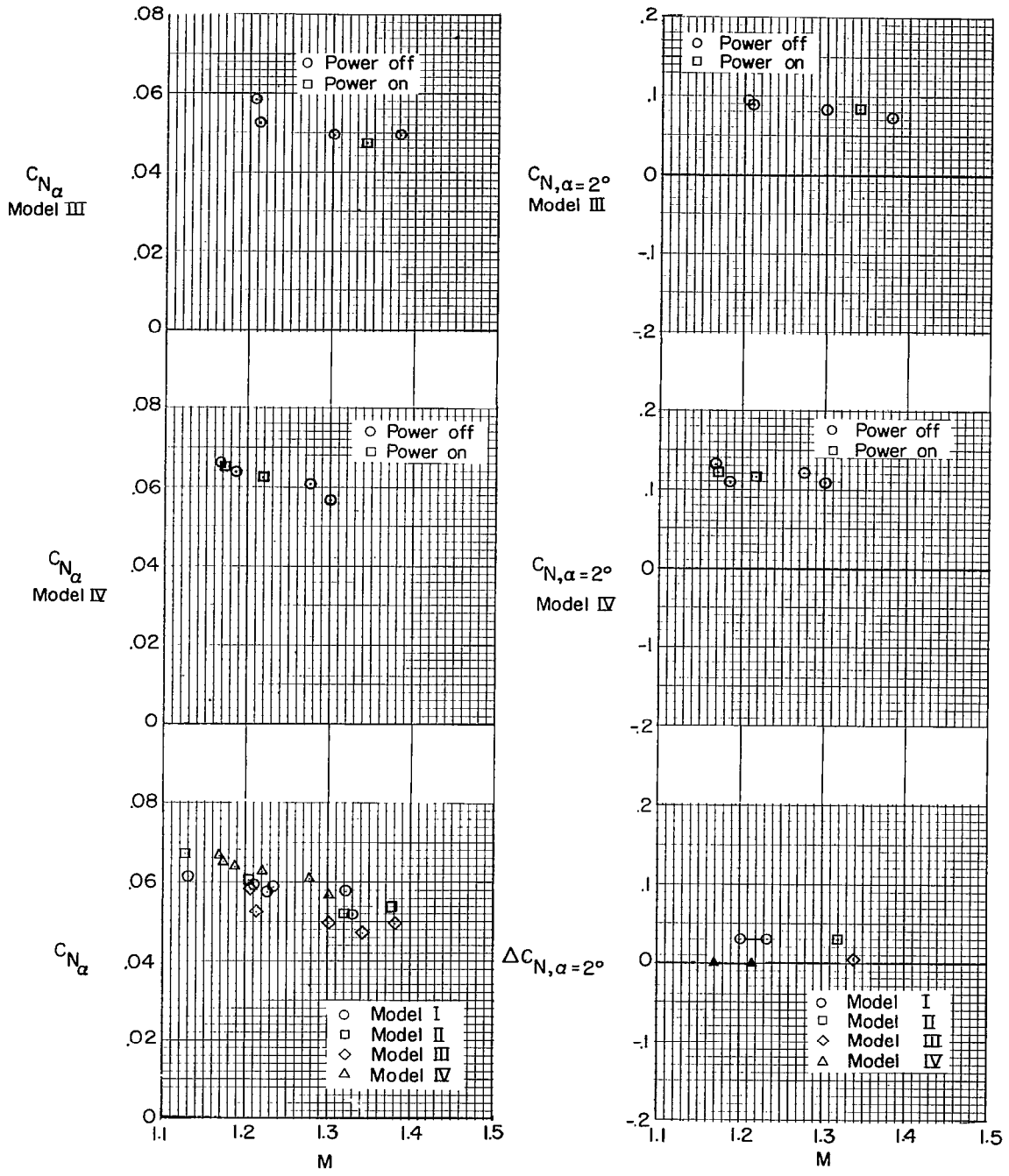


(a) Model III.



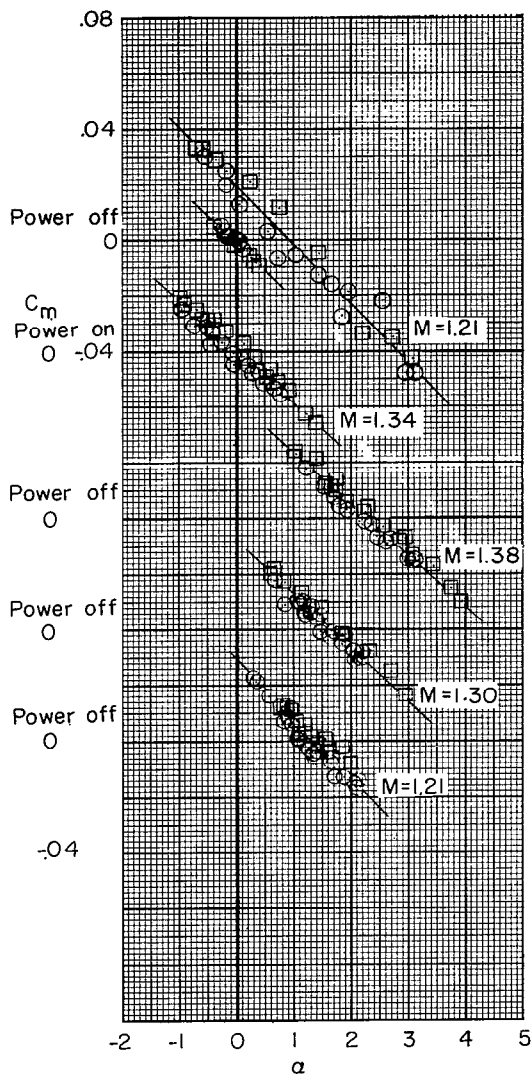
(b) Model IV.

Figure 11.- Basic normal-force data.

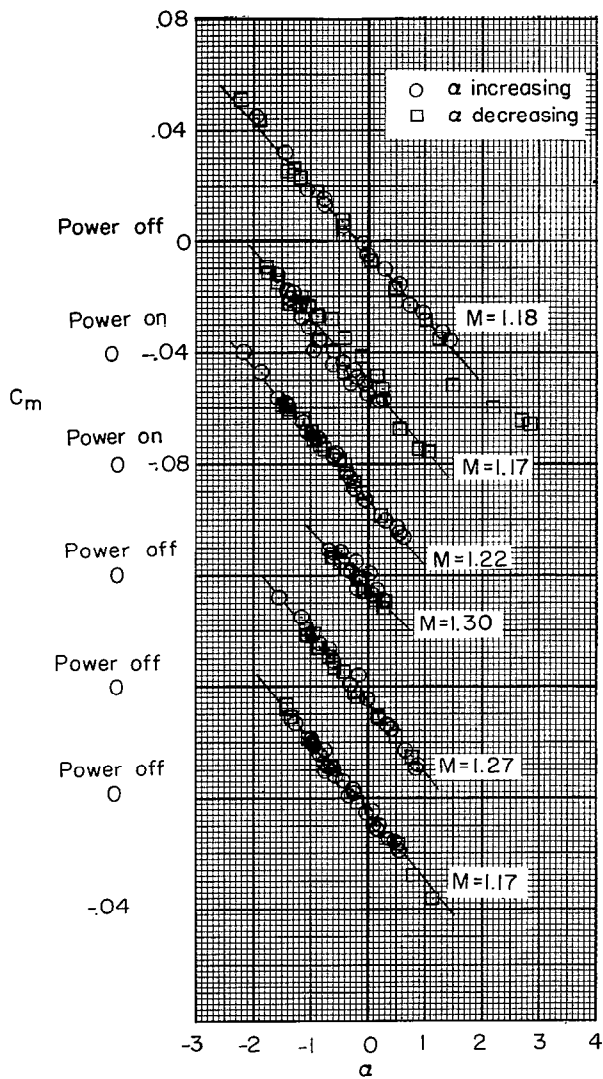


(a) Variation of C_{N_α} with M . (b) Variation of $C_{N,\alpha=2^\circ}$ with M .

Figure 12.- Normal-force summary.

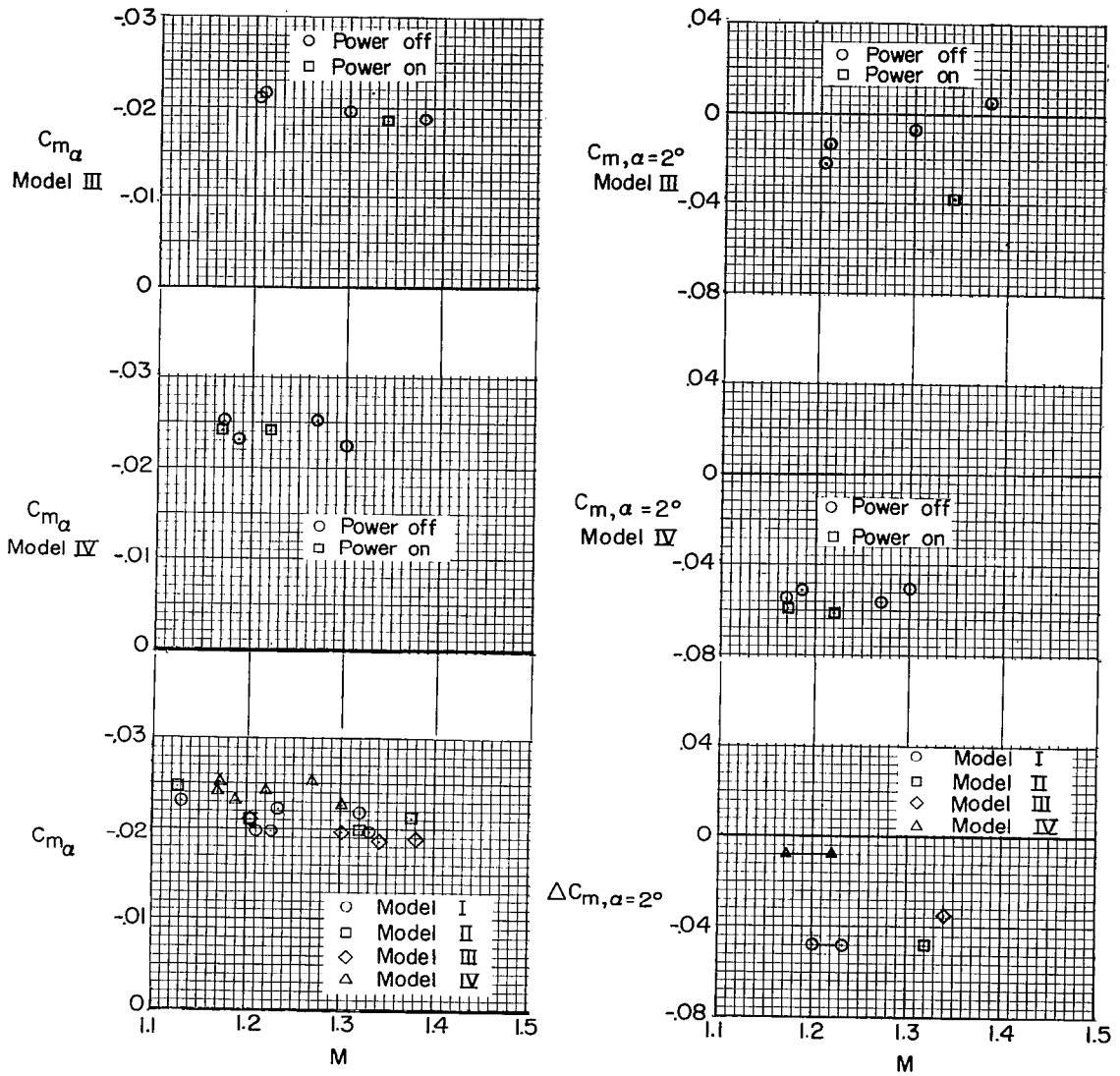


(a) Model III.



(b) Model IV.

Figure 13.- Basic pitching-moment data.



(a) Variation of C_{m_α} with M . (b) Variation of $C_{m,\alpha=2^\circ}$ with M .

Figure 14.- Pitching-moment summary.

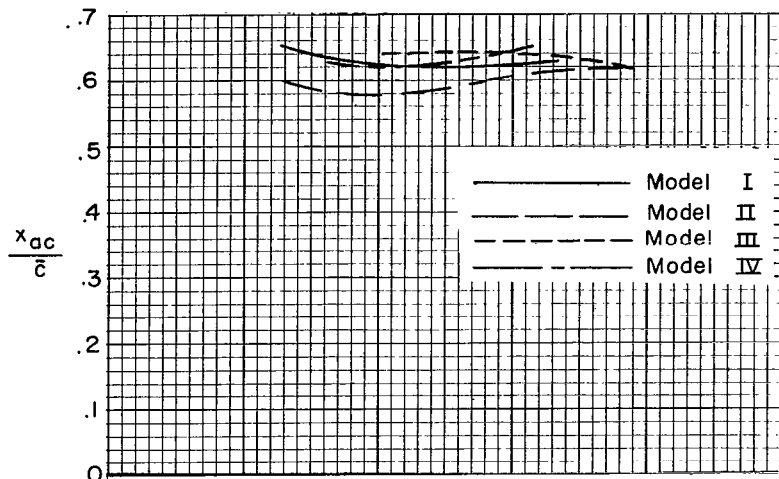


Figure 15.- Aerodynamic-center location for all models.

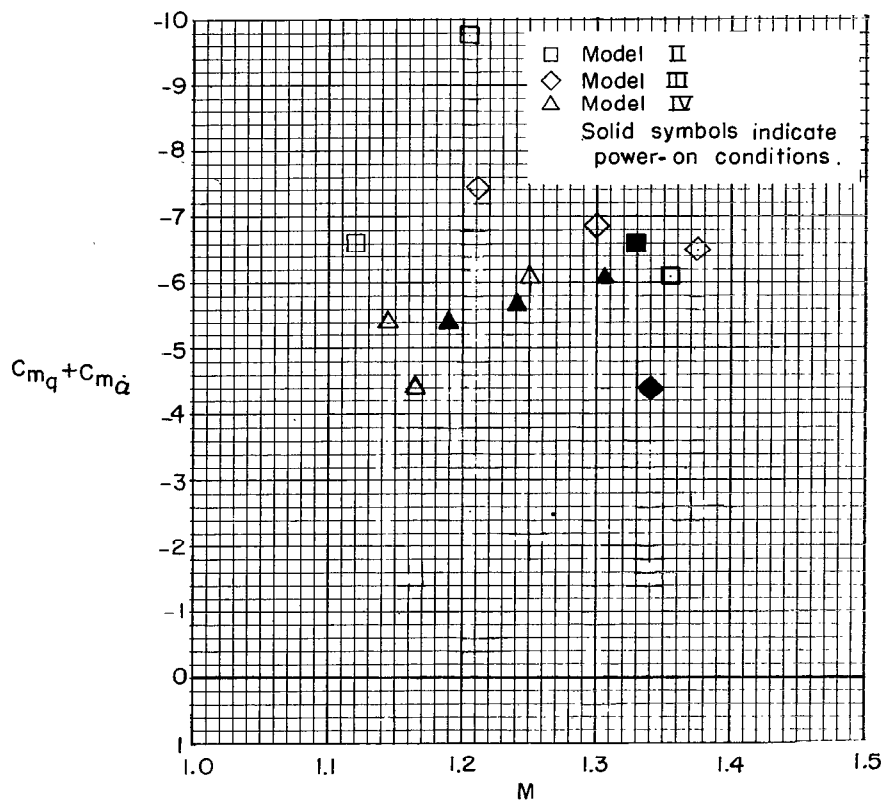


Figure 16.- Longitudinal damping derivative.

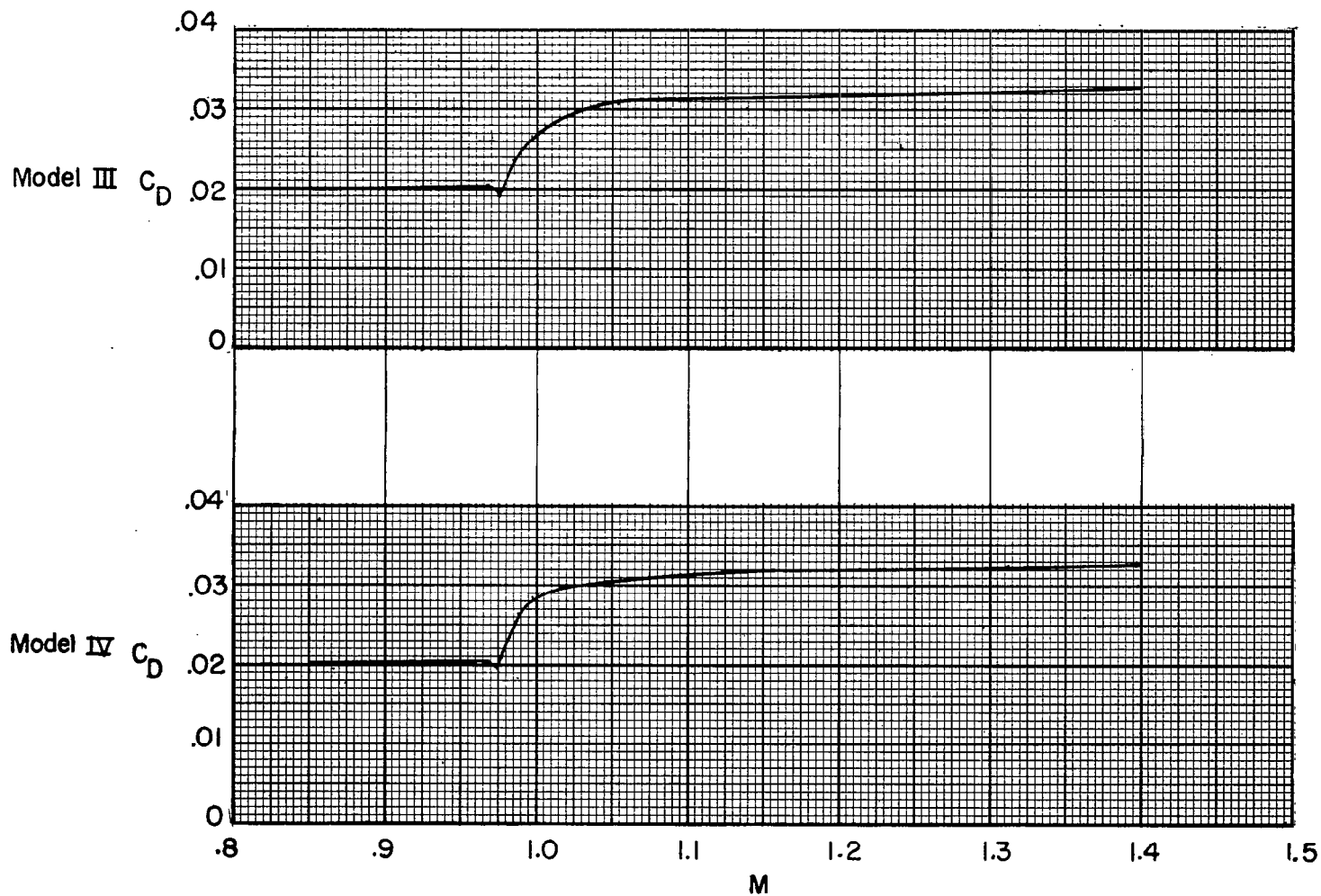
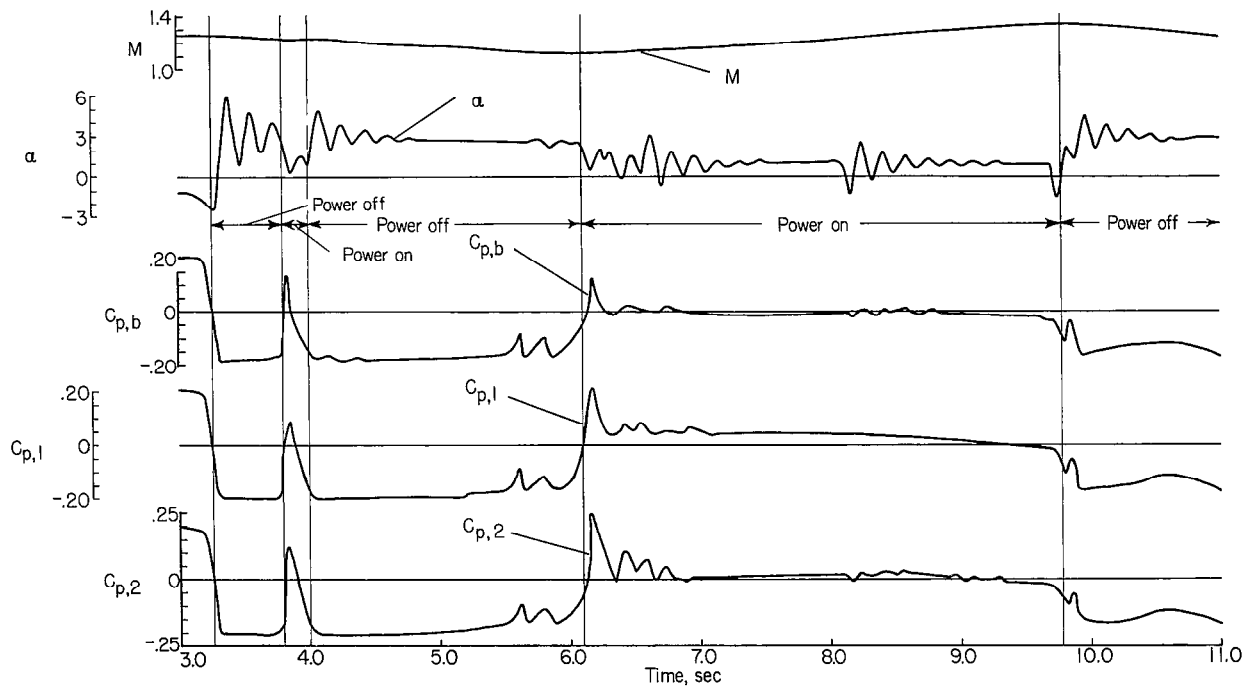
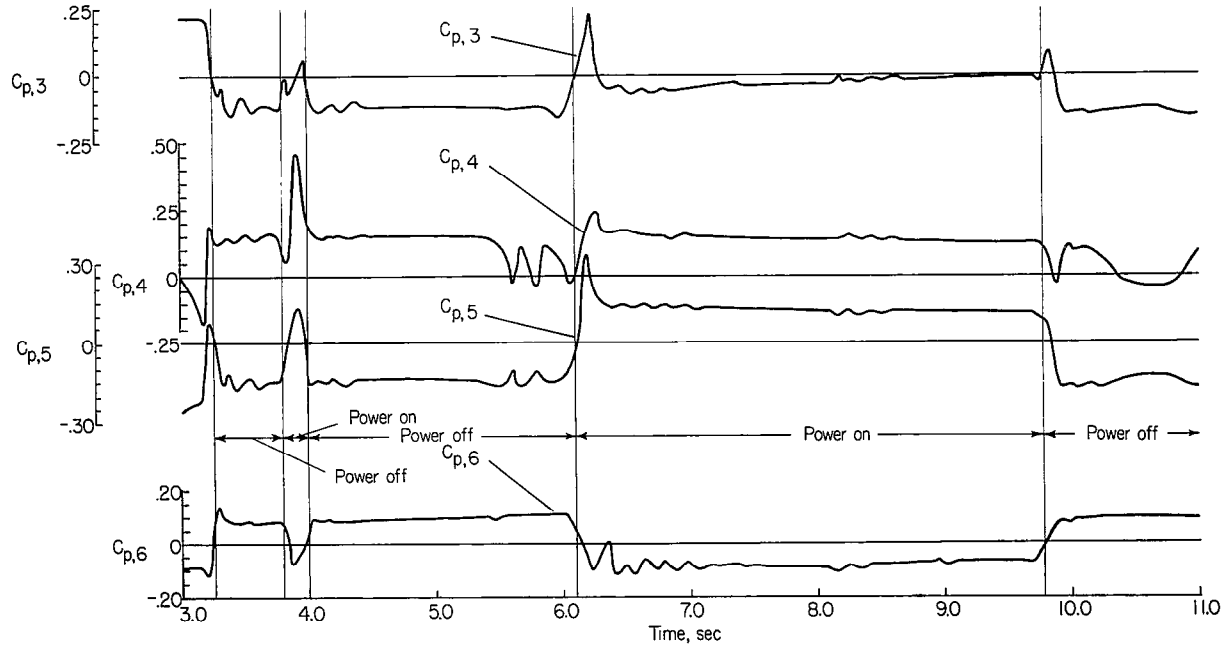


Figure 17.- Variation of trim drag coefficient with Mach number for models III and IV.



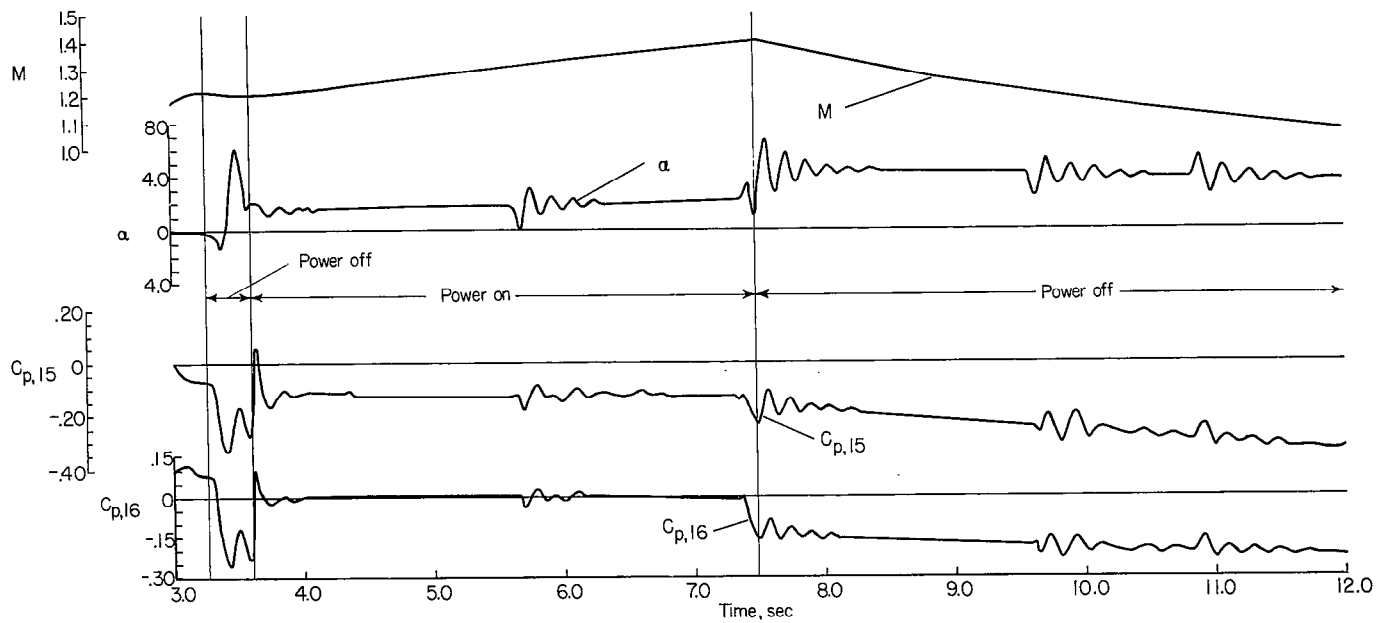
(a) Model I.

Figure 18.- Partial time histories of Mach number, angle of attack, and pressure coefficients.



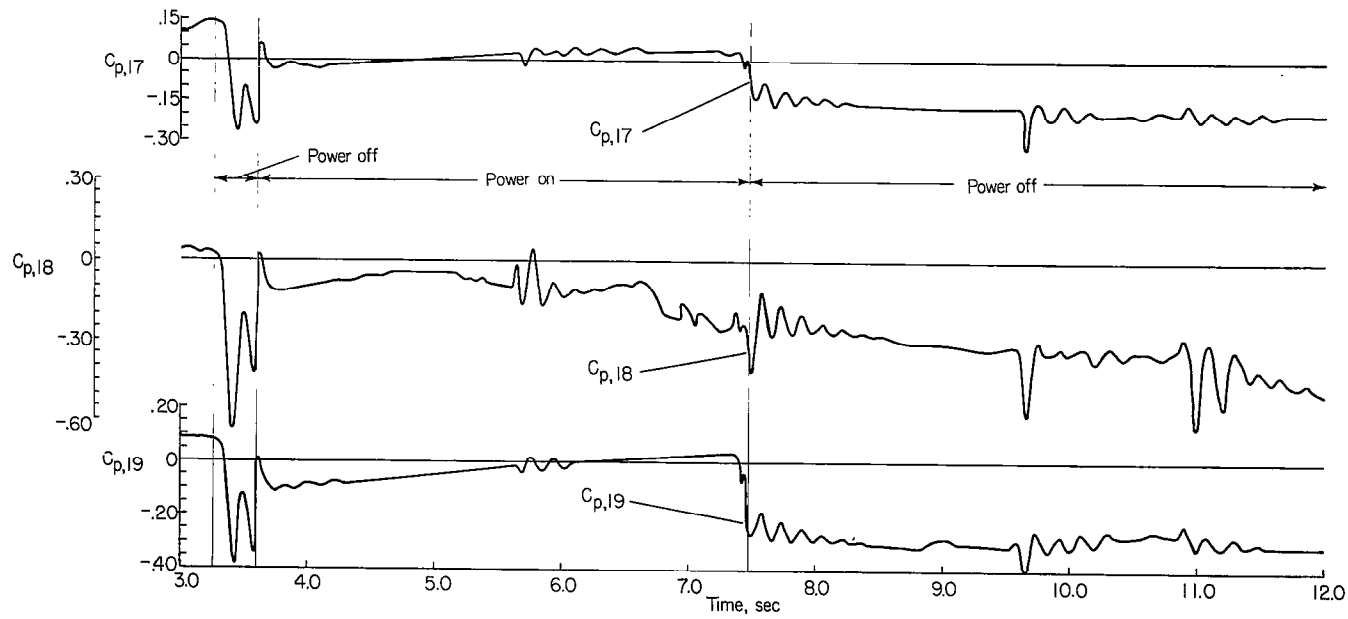
(b) Model I concluded.

Figure 18.- Continued.



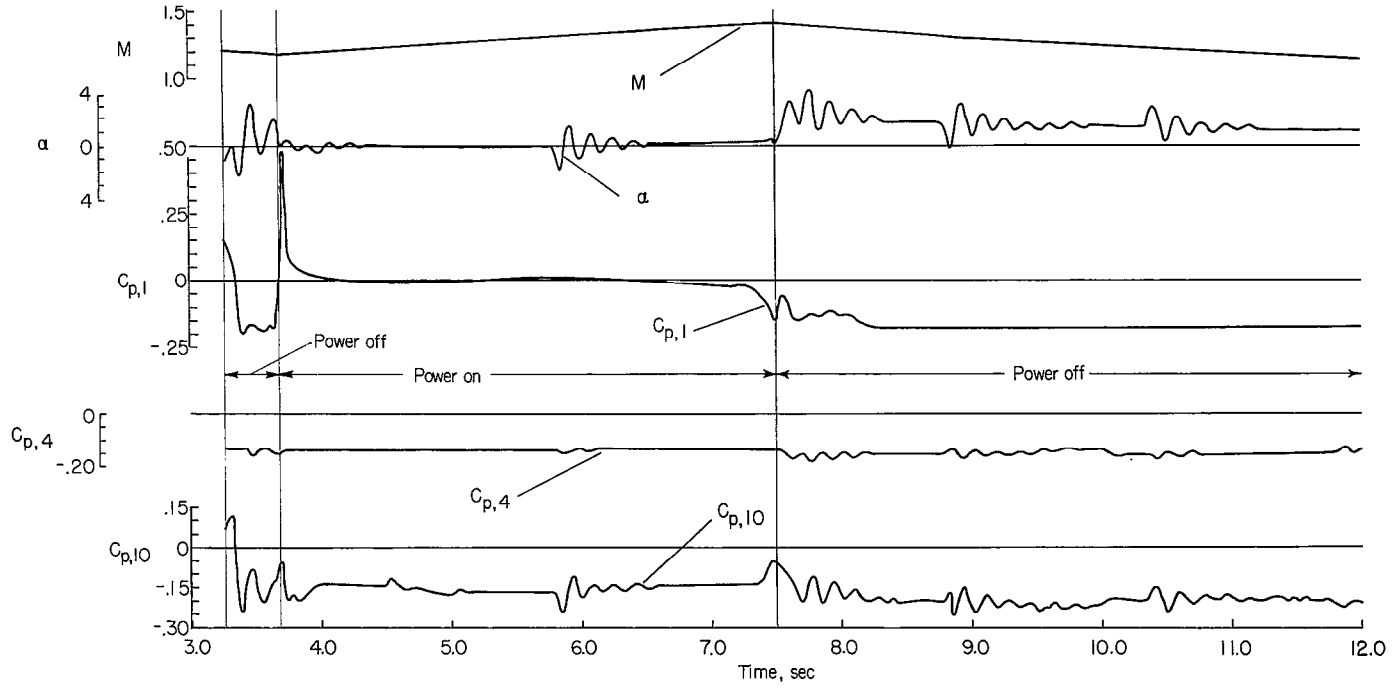
(c) Model II.

Figure 18.- Continued.



(d) Model II concluded.

Figure 18.- Continued.



(e) Model III.

Figure 18.- Continued.



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RESEARCH MEMORANDUM

FREE-FLIGHT TRANSONIC MODEL INVESTIGATION OF JET
EFFECTS ON A FIGHTER-TYPE CONFIGURATION
EMPLOYING A TAIL BOOM AND THREE

HORIZONTAL-TAIL POSITIONS

By Bruce G. Jackson

Langley Aeronautical Laboratory
Langley Field, Va.

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NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

WASHINGTON
February 20, 1958

(3)

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NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

RESEARCH MEMORANDUM

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SUMMARY

Some results of a limited research program initiated to study the effects of a hot propulsive jet on the longitudinal stability characteristics of a fighter-type airplane configuration are presented. The data were obtained from a rocket-boosted free-flight model investigation over a Mach number range of 1.1 to 1.4 on four models whose only geometric difference was the position and size of the horizontal tail. The configurations had sweptback wings and tail surfaces and a tail boom of rectangular cross section. A solid-propellant rocket motor was used to simulate a turbojet engine with afterburner operative, and pulse rockets were used to disturb the models in flight.

Longitudinal trim, normal force, and static and dynamic stability data are presented in summary plots as functions of Mach number. The results of a limited pressure survey on the tail boom and horizontal stabilizer are summarized by giving a sample pressure distribution on the undersurface of the boom at one Mach number and a pictorial representation of the suggested intersection of the primary and secondary shocks on the boom and horizontal stabilizer over the Mach number range of the test. Relatively small jet effects were encountered on the configuration with the horizontal tail mounted on the body ahead of the jet exit. The maximum jet effects on longitudinal trim were noted on the configurations with the horizontal tail mounted on the boom nearest the jet exit. Jet effects on the normal-force-curve slope, the pitching-moment-curve slope, the aerodynamic-center location, and the longitudinal damping were not apparent on any of the configurations tested.

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INTRODUCTION

Many research and operational fighter airplanes have a tail boom extending above and back of a jet exit. Others with no boom have stabilizing surfaces in a position to be affected by an exhausting jet. Because of the insufficient free-flight information available on the jet-interference effects on fighter-type configurations having a tail boom, the National Advisory Committee for Aeronautics has initiated a series of tests to obtain data on power effects and tail position effects on the stability characteristics of a configuration with a tail boom of rectangular cross section.

References 1 and 2 give some information on jet effects obtained from free-flight model tests where these effects were incidental to the tests. References 3 to 6 give results of investigations using free-flight models that were primarily initiated to obtain information on jet interference. The jet effects on the longitudinal stability and trim of two of the models included in this paper were reported in reference 6. Reference 7 presents wind-tunnel results of an investigation conducted on a configuration with a tail boom extending back of and above an exhausting jet. References 8 to 10 present the results of some investigations on jet effects on a surface located within the shock region back of an exhausting jet as obtained in the preflight jet at the Langley Pilotless Aircraft Research Station at Wallops Island, Va., the Langley 9-inch supersonic tunnel, and the Lewis 18- by 18-inch tunnel, respectively.

The primary concern of this paper is to present all the data that are available on the longitudinal trim, normal force, drag, static and dynamic stability for this series of models and to present the results of a limited pressure survey on the boom and horizontal tails. The data herein were obtained from four models whose only geometric difference was the position and size of the horizontal tail.

The tests were conducted at the Langley Pilotless Aircraft Research Station at Wallops Island, Va., by the rocket-boosted free-flight model technique. A Mach number range of 1.1 to 1.4 and a Reynolds number range of 9×10^6 to 13×10^6 were covered.

SYMBOLS

Positive displacements, forces, moments, and pressures are shown in the body axes system (fig. 1) which is used throughout this paper.

A	area of jet exit, sq ft
a	accelerometer reading, g units
\bar{c}	mean aerodynamic chord, ft
C_D	drag coefficient, $-C_X \cos \alpha + C_N \sin \alpha$
C_L	lift coefficient, $C_N \cos \alpha + C_X \sin \alpha$
C_N	normal-force coefficient, $\frac{a_Z}{g} \frac{W}{q_\infty S}$
C_p	pressure coefficient, $144 \left(\frac{p - p_\infty}{q_\infty} \right)$
ΔC_p	pressure coefficient, $144 \frac{\Delta p}{q_\infty}$
C_X	axial-force coefficient, $\frac{a_X}{g} \frac{W}{q_\infty S}$
C_Y	side-force coefficient, $\frac{a_Y}{g} \frac{W}{q_\infty S}$
C_m	pitching-moment coefficient, $\frac{\ddot{\theta}}{q_\infty} \frac{I_Y}{S \bar{c}}$
g	gravitational acceleration, ft/sec ²
I	mass moment of inertia, slug-ft ²
M	Mach number
p	static pressure, lb/sq in.
Δp	differential pressure (difference between p_{upper} and p_{lower}), lb/sq in.
p_j	jet static pressure, lb/sq in.
$p_{j,t}$	jet total pressure, lb/sq in.
q	dynamic pressure, lb/sq ft
r	radius, ft

R	Reynolds number
S	total wing area, sq ft
t	time, sec
$T_{1/2}$	time to damp to 1/2 amplitude, sec
V	velocity, ft/sec ²
W	weight of model, lb
x_{ac}	aerodynamic-center location, distance back of leading edge of \bar{c} , ft
x	distance along X-axis
y	distance along Y-axis
z	distance along Z-axis
α	angle of attack, deg
γ	flight-path angle, deg
θ	angle of pitch, deg
$\ddot{\theta}$	pitching angular acceleration, radian/sec ²
$\frac{\theta}{L}$	wing influence coefficient, radian/lb
η	spanwise station in percent of semispan, $\frac{y}{b/2}$

Subscripts:

ac	aerodynamic center
b	model base
cg	center of gravity
o	sea-level conditions
t	trim

X with respect to X-axis
 Y with respect to Y-axis
 Z with respect to Z-axis
 1 to 21 orifice numbers
 ∞ free-stream conditions

Derivatives:

C_{N_α} normal-force-curve slope $\frac{dC_N}{d\alpha}$ per degree
 C_{mC_N} static stability parameter, $\frac{dC_m}{dC_N}$
 C_{m_α} static stability parameter $\frac{dC_m}{d\alpha}$ per degree
 $C_{m_q} + C_{m_{\dot{\alpha}}}$ longitudinal damping derivative,

$$57.3 \left[\frac{dC_m}{d\left(\frac{d\theta}{dt} \bar{c}/2V\right)} + \frac{dC_m}{d\left(\frac{d\alpha}{dt} \bar{c}/2V\right)} \right], \text{ per radian}$$

A Δ preceding a symbol indicates the effect of power unless otherwise defined.

MODELS

Airframe

A three-view sketch of the configurations tested is shown in figure 2. Figure 3 presents the normal area distribution which was incorporated into the design. An enlarged drawing of the rear portion of the model showing the three different tail positions and the location of the pressure orifices is presented in figure 4. Photographs of the models are given in figure 5. Table I presents the physical characteristics of the models. Table II gives the ordinates of the pressure orifices.

The nose sections of the models were constructed of aluminum alloy. The body sections were made up of a steel rocket-motor housing for model I and a magnesium-alloy rocket-motor housing for models II, III,

and IV, each surrounded by laminated mahogany which was faired to the designed body contour. The primary structure of the tail boom of model I was wood whereas that of models II, III, and IV was metal. In all cases a steel plate made up the undersurface of the tail boom. The wings and tail surfaces were of solid aluminum-alloy construction.

The designation of the models as configurations is such that configuration (a) (models I and II) has the horizontal tail mounted on the tail boom nearest the jet exit, configuration (b) (model III) has the horizontal tail mounted on the tail boom in the most rearward position, and configuration (c) (model IV) has the horizontal tail mounted on the fuselage ahead of the jet exit.

Turbojet Simulator

A 5-inch solid-propellant cordite rocket motor, modified by the method of reference 11, was used as a turbojet simulator. This rocket motor approximately simulated present-day turbojet engines with afterburner operative at a Mach number of 1.2 at an altitude of 35,000 feet for a model test Mach number of 1.2 at 3,000 feet. From static ground firings of the simulator it was determined that with an exit diameter of 3.415 inches a sonic exit could be obtained and the desired simulation parameters could most nearly be approximated. A cutaway drawing of the model exposing the rocket-motor installation and its pertinent parts and dimensions is shown in figure 6. The center line of the simulator coincided with the model reference line and passed within ± 0.02 inch of the model center of gravity.

INSTRUMENTATION

Each model contained an NACA telemeter transmitter which relayed continuous signals from the instruments contained in each model to a ground receiving station. The transmitted information received from all four models was flow direction at the nose in the pitch plane, normal acceleration at the nose, normal acceleration near the center of gravity, transverse acceleration near the center of gravity, longitudinal acceleration near the center of gravity, reference static pressure, and free-stream total pressure. Pressure measurements were made on each model. The location of each orifice and the type measurement taken are given in table II for each model.

Ground instrumentation included telemeter receiving and recording equipment, SCR-584 radar theodolite, and a CW Doppler velocimeter. Atmospheric conditions were measured with a rawinsonde released shortly after each flight.

TESTS

Preflight Tests

Static-loading tests of the wings were made to determine the models flexibility characteristics and are presented in figure 7 as wing structural influence coefficients for 25- and 50-percent-chord loadings. Vibration tests were conducted on all models and an example of these tests is shown in reference 6. The data from models III and IV showed results similar to those obtained from the first two models. From a static ground firing of the simulator the characteristics of its operation were determined and are shown in figure 6.

Flight Tests

The flight tests were conducted at the Langley Pilotless Aircraft Research Station at Wallops Island, Va. Each model was boosted to flight-test velocity with a 6-inch ABL Deacon rocket motor. The Mach number at burnout was approximately 1.2. The model then separated from the booster because of the differences in the drag-weight ratios between the model and model-booster combination. After a short delay the simulator motor ignited and accelerated the model to its maximum Mach number. The Mach number range for which both power-off and power-on data are available is 1.1 to 1.4.

Each model was disturbed in pitch by four pulse rockets located in the nose section. Two of the pulse rockets were programed to fire during the power-on portion of the flight and two after simulator burnout (power off). Disturbances were also encountered with the advent and termination of the simulator operation and upon separation of the model from the booster because of an abrupt trim change resulting from the power changes. The interruption of some of the oscillations by other oscillations due to unfortunate spacing of the disturbances precluded the utilization of all oscillations in the analysis.

Test Conditions

The test conditions are summarized in figure 8. The terms R , q_∞ , $\frac{P_\infty}{P_0}$, and $\frac{P_{j,t}}{P_\infty}$ are presented as a function of Mach number for the four models. Pressure ratio $\frac{P_{j,t}}{P_\infty}$ is presented only during the power-on

portion of the flight and is based on $p_{j,t}$ obtained from the static ground firing of the simulator. The Reynolds number ranged from 9×10^6 to 13×10^6 .

CORRECTIONS AND ACCURACIES

Instrument misalignment and displacement corrections were applied to the basic recorded data where necessary. Flexibility corrections were not applied to the data herein presented. An example of the estimated probable errors in the basic data and the calculated effect on the aerodynamic parameters is presented in the following tables. These accuracies express the range encountered on all the models and may be either positive or negative.

Estimated possible errors in measured quantities for -

Quantity	M = 1.2	M = 1.4
W, percent	0.5	0.5
I_y , percent	2.0	2.0
M, percent	1.29	0.78
q_∞ , percent	1.41	1.70
a_z , g units	0.40	0.40
$\frac{da_z}{d\alpha}$, percent	2.0	2.0
$\frac{da_z}{da_z} \frac{d\alpha}{d\alpha}$, percent	2.0	2.0

Quantity	Condition	Mach number	Probable error
C_{N_t}	Power off	1.2	0.010
	Power off	1.4	.006
	Power on	1.4	.006
C_{N_α}	Power off and on	1.2	.0021
	Power off and on	1.4	.0014
$\frac{x_{ac}}{\bar{c}}$	Power off and on	1.2	.0151
	Power off and on	1.4	.0153

ANALYSIS

The body axes system shown in figure 1 was used for the analysis. The longitudinal stability analysis (conducted on the transient motions of the model resulting from the previously described disturbances) is based on the usual assumption of two degrees of freedom in pitch. A more detailed discussion of the methods used in reducing the data from flight time histories and the assumptions made in and the limitations of the test technique can be found in references 12 and 13.

RESULTS AND DISCUSSION

Time Histories

Time histories of the basic parameters for models III and IV are presented in figure 9. The time histories for models I and II are shown in reference 6. Some oscillations in sideslip are noted but the models trimmed with essentially zero side force. The drag coefficient during the power-on portion of the flight (shown as dashed line in fig. 9) is not valid because it contained a thrust component which resulted in longitudinal accelerations that exceeded the instrument range. It is presented because it gives a good indication of the time that the power changes occurred.

Trim

Trim angle of attack α_t and trim normal-force coefficient C_{N_t} are shown in figures 10(a) and 10(b) for models III and IV. Figure 10(c) gives a summary of the jet effects on α_t and C_{N_t} for all models. It should be noted that the largest jet effects were encountered on the configuration with the horizontal tail located forward on the boom. Relatively small jet effects on α_t and C_{N_t} were observed on model IV, although the boom is back of the issuing jet.

Normal Force

The basic normal-force data for models III and IV are presented in figure 11. The normal-force-curve slopes C_{N_α} were obtained from these data and are shown in figure 12(a) for models III and IV. The basic normal-force data from which C_{N_α} was obtained for models I and II was

obtained from reference 6. Power-off and power-on $C_{N\alpha}$ data are presented in figure 12(a) for all four models. Within the limits of accuracy of these tests, there are no apparent jet effects on $C_{N\alpha}$.

The normal-force coefficient at an angle of attack of 2° is presented in figure 12(b) as a function of Mach number for models III and IV. An angle of attack of 2° was chosen because it necessitated the least amount of extrapolation of the basic data to include all oscillations. The normal-force coefficient at an angle of attack of 2° for models I and II is given in reference 6. The jet effects are shown in figure 12(b) where $\Delta C_{N,\alpha=2^\circ}$ is plotted against Mach number for the three configurations tested. Relatively small effects due to the jet were noted on model IV and this result shows the small effect of the tail boom. The largest effects were noted on configuration (a) with the horizontal tail located on the boom nearest the jet exit.

Pitching Moment

Shown in figure 13 are the basic pitching-moment data for models III and IV. From these data the pitching-moment-curve slopes $C_{m\alpha}$ that are presented as a function of Mach number in figure 14(a) were obtained. No jet effects on $C_{m\alpha}$ were observed on any of the three configurations tested. Figure 14(a) also presents $C_{m\alpha}$ as a function of Mach number for all models.

The pitching-moment coefficient at an angle of attack of 2° is plotted in figure 14(b) as a function of Mach number for models III and IV. The effects of power are also presented in figure 14(b) where $\Delta C_{m,\alpha=2^\circ}$ is plotted against Mach number for all models. The configuration with the horizontal tail nearest the jet exit was affected the most because of the shock impingement whereas the configuration with the horizontal tail on the body ahead of the jet exit experienced very little effect. This result denoted the small contribution of the jet on the tail boom.

Aerodynamic-Center Location

The aerodynamic-center location $\frac{x_{ac}}{c}$ is shown in figure 15 for all models and indicates a value of approximately $0.6\bar{c}$ for these configurations over the Mach number range of the test. Because the differences in this parameter between the two models of configuration (a) are larger than the calculated probable error, no power effects and tail-position effects could be ascertained from these tests. The reason for the

increased inaccuracies is not known but they may indicate undetected structural differences between models or larger-than-normal calibration changes in the instruments.

Dynamic Stability

Figure 16 presents the longitudinal damping derivative $C_{m\dot{q}} + C_{m\dot{\alpha}}$ plotted against Mach number for configurations (a), (b), and (c) (models II, III, and IV). No damping could be obtained from the data of model I.

The damping factor $-\frac{0.693}{T_{1/2}}$ was obtained from the first portion of the transient oscillation. The general level of the parameter $C_{m\dot{q}} + C_{m\dot{\alpha}}$ for the three configurations appears to be about 6. It was not possible to determine any power effects or tail-position effects from these data.

Contributing factors to the scatter of the data could be longitudinal-lateral coupling, atmospheric turbulence, and possible undetected structural differences. Small oscillations in sideslip were noted but no effort was made to determine their effect on the longitudinal stability parameters. The atmospheric conditions existing during the testing of models I and II are summarized in reference 6. The lapse rate encountered at the time of the flight of model III is considered to indicate a marginally stable atmosphere by the standard of reference 14 and the lapse rate encountered at the time of the flight of model IV is considered to indicate a stable atmosphere. These data suggest the possibility that some of the data were taken while the models were flying in turbulent air.

Trim Drag

Presented in figure 17 are the trim drag plots for models III and IV. No power-on drag data were available, thus, no power effects on drag are shown.

Pressure Data

Shown in figure 18 are the pressure-coefficient time histories for all the models. Angle-of-attack and Mach number time histories are also presented for convenience. Table III presents time histories of all pressure coefficients, angle of attack, and Mach number. Figure 19 presents the trim pressure coefficients for all orifices over the Mach number range for which both power-off and power-on data were available. Plots of power-off and power-on pressure distributions on the under-surface of the boom at a Mach number of 1.2 are shown in figures 20(a)

and 20(b), respectively, with suggested fairings. The data were taken at trim angles of attack for power-off and power-on conditions and were not adjusted to the same angles of attack. Figure 20(c) gives the effect of power on the pressure distribution. The integrated effect over the boom indicates little effect due to power.

Reference 15 presents some jet-effects data on different configurations and also shows the structure of an exhausting jet in subsonic and supersonic flow. For the purposes of this paper, the shock which emanates at the jet exit and exists only when the power is on will be called the primary shock. The shock which exists in the trailing wake during power-off and power-on conditions will be called the secondary shock. Figure 21 gives a representation of the suggested regions of shock impingement on the tail boom and horizontal tails. There were no shock intersections noted on the horizontal tail of model IV and it was omitted from the figure.

CONCLUDING REMARKS

Free-flight tests of four similar models having swept wings and swept tail surfaces of varying position and size and a tail boom of rectangular cross section have been conducted to study the effects of a hot propulsive jet on the longitudinal trim, normal force, stability, and boom pressure distribution. A Mach number range and Reynolds number range of 1.1 to 1.4 and 9×10^6 to 13×10^6 , respectively, were covered.

Relatively small jet effects were encountered on the configuration with the horizontal tail mounted on the body ahead of the jet exit; thus, the jet effects on the boom for this type of configuration are believed to be small. Because of the strong shock field near the jet exit, the maximum jet effects on longitudinal trim were noted on the configuration with the horizontal tail mounted on the boom nearest the jet exit. Jet effects on normal-force-curve slope, pitching-moment-curve slope, aerodynamic-center location, and the longitudinal damping were not apparent on any of the configurations tested.

Langley Aeronautical Laboratory,
National Advisory Committee for Aeronautics,
Langley Field, Va., October 9, 1957.

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TABLE I

PHYSICAL CHARACTERISTICS OF MODEL

(a) Geometric characteristics

Quantity	Models I and II			Model III			Model IV		
	Wing	Tail	Fin	Wing	Tail	Fin	Wing	Tail	Fin
Aspect ratio	3.00	3.00	1.50	3.00	3.00	1.50	3.00	3.00	1.50
Sweepback of quarter chord, deg	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50
Taper ratio	.20	.20	.20	.20	.20	.20	.20	.20	.20
Incidence, deg	0	-1.00	0	0	-1.00	0	0	1.00	0
Dihedral, deg	-5.00	0	0	-5.00	0	0	-5.00	0	0
Area (total), sq ft	4.88	.78	.62	4.88	.78	.62	4.88	1.25	.62
Span (total), in.	45.90	18.36	11.61	45.90	18.36	11.61	45.90	23.22	11.61
Root chord, in.	25.50	10.20	12.90	25.50	10.20	12.90	25.50	12.90	12.90
Tip chord, in.	5.10	2.04	2.58	5.10	2.04	2.58	5.10	2.58	2.58
Mean aerodynamic chord, in.	17.57	7.03	8.90	17.57	7.03	8.90	17.57	8.90	8.90
Vertex location:									
Horizontal station, in.	31.36	74.78	76.04	31.36	79.44	76.04	31.36	61.89	76.04
Vertical station, in.	0	5.00	6.00	0	5.00	6.00	0	0	6.00
Fuselage station of leading edge of mean aerodynamic chord, in.	44.98	80.23	82.93	44.98	84.89	82.93	44.98	68.78	82.93
Spanwise station of mean aerodynamic chord, in.	8.92	3.57	4.51	8.92	3.57	4.51	8.92	4.51	4.51
NACA airfoil section	65A004	65A006	65A006	65A004	65A006	65A006	65A004	65A006	65A006

TABLE I.- Continued

PHYSICAL CHARACTERISTICS OF MODEL

(b) Mass characteristics

Quantity	Condition	Model I	Model II	Model III	Model IV
Center-of-gravity horizontal station, in.	Loaded	49.69	49.29	49.69	49.33
	Unloaded	49.49	49.09	49.45	49.09
Center of gravity percent back of leading edge of mean aerodynamic chord	Loaded	26.8	24.5	26.8	24.8
	Unloaded	25.7	23.4	25.4	23.4
Center-of-gravity vertical station, in.	Loaded	0	0	0	0
	Unloaded	0	0	0	0
Weight, lb	Loaded	189.0	190.0	189.0	190.0
	Unloaded	169.0	170.0	168.0	169.0
Wing loading, lb/sq ft	Loaded	38.8	39.0	38.8	39.0
	Unloaded	34.7	34.9	34.5	34.7
Moment of inertia, I_x , slug/sq ft	Loaded	.96	1.05	1.11	-----
	Unloaded	.94	.96	.93	-----
Moment of inertia, I_y , slug/sq ft	Loaded	12.43	13.29	13.21	13.58
	Unloaded	12.10	13.03	13.02	13.18
Moment of inertia, I_z , slug/sq ft	Loaded	-----	-----	-----	-----
	Unloaded	12.32	12.61	-----	-----
Inclination of principal axis with respect to body axis, deg	Unloaded	-----	-2.5	-----	-----

TABLE I.- Concluded.

PHYSICAL CHARACTERISTICS OF MODEL

(c) Body ordinates

[Dimensions are in inches]

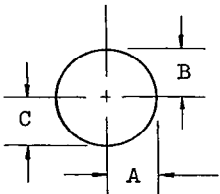
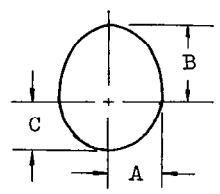
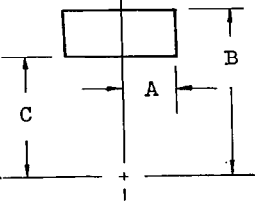
Fuselage station	A	B	C	Cross section
0	0	0	0	 <p>Circular</p>
10	1.68	1.68	1.68	
20	2.98	2.98	2.98	
30	3.90	3.90	3.90	
38.12	4.43	4.43	4.43	 <p>Two ellipses</p>
40	4.50	4.51	4.49	
50	4.18	4.82	4.39	
60	3.93	5.18	3.90	
70	3.42	5.52	3.02	
77 Jet exit	2.50	5.74	2.20	<p>Fairing from two ellipses ahead of the jet exit to rectangular aft of the jet exit with an abrupt transition occurring at the exit.</p>
80	2.12	5.84	-2.69	
83	2.00	6.00	-3.29	 <p>Rectangular</p>
90	2.00	6.00	-4.70	
96.33	2.00	6.00	-6.00	

TABLE II

ORDINATES OF PRESSURE ORIFICES

Model	Type of measurement	Orifice number	Location	Ordinate			
				x	y	z	
I	Static pressure	b	Annulus	77.00	0	1.85	
		1	Lower surface of boom	78.50	0	2.35	
		2		78.50	1.00	2.35	
		3		81.70	0	3.00	
		4		85.05	0	3.70	
		5		85.05	1.00	3.70	
		6		92.45	0	5.20	
II	Differential pressure	15	Horizontal tail (left)	80.15	3.00	5.00	
		16		81.10	3.00	5.00	
		17		82.05	3.00	5.00	
	Static pressure	18	Horizontal tail (right)	82.95	5.00	5.00	
		19		83.85	5.00	5.00	
	III	Differential pressure	10	Horizontal tail (left)	84.75	3.00	5.00
11			85.90		3.00	5.00	
12			86.90		3.00	5.00	
Static pressure			13	Horizontal tail (right)	87.60	5.00	5.00
			14		88.60	5.00	5.00
			1		Lower surface of boom	78.20	0
4	84.75	0	3.60				
IV	Static pressure	7	Upper surface of boom	81.00	1.25	6.00	
		8		83.00	1.25	6.00	
		9		85.00	1.25	6.00	
	Differential pressure	20	Horizontal tail (right)	71.00	4.55	0	
		21		73.25	4.55	0	

TABLE III

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II

Model I										Model II							
t, sec	M	α , deg	$C_{p,b}$	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	M	α , deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t , sec
3:00	1.24	-1.26	.202	.199	.190	.210	.362	-.264	-.191	1.18	-.04	-.011	.101	.109	.038	.090	3:00
3:01	1.24	-1.40	.204	.204	.184	.217	.355	-.252	-.091	1.18	-.05	-.013	.103	.109	.043	.091	3:01
3:02	1.24	-1.20	.209	.199	.182	.216	.357	-.254	-.096	1.18	-.06	-.023	.104	.111	.044	.091	3:02
3:03	1.24	-1.31	.203	.199	.194	.215	.351	-.251	-.092	1.19	-.09	-.033	.106	.113	.043	.092	3:03
3:04	1.24	-1.28	.203	.203	.201	.217	.348	-.249	-.091	1.19	-.07	-.040	.111	.114	.043	.091	3:04
3:05	1.25	-1.30	.201	.201	.197	.219	.346	-.248	-.089	1.19	-.05	-.046	.113	.117	.042	.092	3:05
3:06	1.25	-1.21	.202	.203	.187	.218	.344	-.246	-.093	1.19	-.06	-.050	.117	.115	.043	.093	3:06
3:07	1.25	-1.32	.201	.199	.191	.218	.341	-.241	-.095	1.20	-.07	-.054	.119	.118	.042	.092	3:07
3:08	1.25	-1.25	.202	.201	.191	.218	.339	-.241	-.092	1.20	-.06	-.055	.121	.121	.042	.092	3:08
3:09	1.25	-1.37	.203	.199	.195	.219	.335	-.240	-.093	1.20	-.06	-.058	.121	.121	.043	.090	3:09
3:10	1.25	-1.38	.204	.201	.186	.219	.330	-.237	-.096	1.20	-.12	-.058	.119	.123	.045	.090	3:10
3:11	1.25	-1.50	.202	.197	.191	.220	.328	-.232	-.094	1.20	-.13	-.059	.117	.125	.040	.092	3:11
3:12	1.25	-1.38	.201	.195	.189	.220	.323	-.233	-.092	1.21	-.14	-.060	.113	.127	.038	.090	3:12
3:13	1.25	-1.49	.202	.198	.191	.219	.315	-.230	-.096	1.21	-.14	-.060	.109	.130	.034	.090	3:13
3:14	1.25	-1.48	.200	.195	.183	.220	.311	-.233	-.091	1.21	-.13	-.062	.101	.134	.035	.090	3:14
3:15	1.25	-1.56	.201	.196	.185	.219	.307	-.232	-.094	1.21	-.15	-.064	.097	.136	.034	.091	3:15
3:16	1.25	-1.66	.195	.200	.188	.220	.300	-.220	-.094	1.21	-.15	-.065	.096	.138	.031	.090	3:16
3:17	1.24	-1.51	.191	.195	.187	.219	.275	-.196	-.100	1.21	-.15	-.066	.093	.140	.029	.089	3:17
3:18	1.24	-1.66	.182	.183	.174	.227	.209	-.134	-.105	1.21	-.19	-.066	.088	.142	.029	.089	3:18
3:19	1.24	-1.66	.177	.165	.177	.215	-.079	-.016	-.113	1.21	-.20	-.066	.085	.141	.028	.088	3:19
3:20	1.24	-1.84	.140	.153	.072	.204	.047	.075	-.119	1.22	-.20	-.067	.084	.142	.030	.087	3:20
3:21	1.24	-2.07	.125	.116	.115	.188	.157	.188	-.116	1.22	-.20	-.070	.082	.142	.029	.087	3:21
3:22	1.24	-2.18	.085	.087	.099	.171	.184	.197	-.100	1.21	-.22	-.071	.084	.143	.026	.085	3:22
3:23	1.24	-2.39	.055	.065	.084	.129	.190	.187	-.068	1.21	-.25	-.071	.082	.143	.027	.085	3:23
3:24	1.24	-2.61	.024	.029	.041	.068	.173	.073	.005	1.21	-.27	-.073	.081	.144	.028	.084	3:24
3:25	1.24	-2.51	-.004	-.005	.021	.023	.149	.037	.084	1.21	-.27	-.076	.080	.144	.028	.083	3:25
3:26	1.24	-2.48	-.039	-.037	-.015	-.011	.132	.090	.105	1.21	-.27	-.074	.080	.141	.024	.081	3:26
3:27	1.24	-2.37	-.076	-.076	-.053	-.034	.124	.004	.126	1.21	-.30	-.074	.079	.140	.025	.081	3:27
3:28	1.24	-2.11	-.125	-.138	-.109	-.052	.124	-.099	.133	1.21	-.32	-.074	.078	.140	.022	.077	3:28
3:29	1.24	-1.59	-.165	-.170	-.150	-.066	.125	-.064	.144	1.21	-.30	-.077	.074	.138	.018	.074	3:29
3:30	1.24	-.93	-.190	-.186	-.194	-.064	.129	-.102	.120	1.21	-.33	-.089	.065	.137	.011	.073	3:30
3:31	1.23	-.04	-.191	-.194	-.206	-.044	.133	-.126	.106	1.21	-.42	-.120	.048	.133	-.006	.067	3:31
3:32	1.23	1.08	-.193	-.201	-.206	-.039	.137	-.146	.082	1.21	-.53	-.147	.026	.128	-.034	.057	3:32
3:33	1.23	2.35	-.189	-.200	-.054	.141	-.185	.093	.093	1.21	-.70	-.174	-.026	.111	-.079	.040	3:33
3:34	1.23	3.48	-.191	-.186	-.197	-.084	.146	-.162	.092	1.21	-.95	-.205	-.071	.052	-.136	.004	3:34
3:35	1.23	4.70	-.185	-.195	-.198	-.110	.146	-.136	.086	1.21	-1.20	-.233	-.107	.025	-.213	-.069	3:35
3:36	1.23	5.33	-.184	-.196	-.200	-.124	.146	-.120	.085	1.21	-1.33	-.263	-.137	.076	-.317	-.139	3:36
3:37	1.23	5.90	-.190	-.198	-.202	-.157	.143	-.116	.081	1.21	-1.42	-.292	-.175	.124	-.472	-.197	3:37
3:38	1.23	5.93	-.187	-.202	-.199	-.136	.142	-.114	.081	1.21	-1.28	-.313	-.203	.159	-.563	-.220	3:38
3:39	1.23	5.23	-.184	-.197	-.197	-.139	.138	-.176	.079	1.21	-1.01	-.326	-.230	.193	-.622	-.247	3:39
3:40	1.23	5.19	-.182	-.197	-.197	-.143	.131	-.144	.077	1.21	-.66	-.334	-.248	.223	-.637	-.340	3:40
3:41	1.23	4.17	-.188	-.193	-.200	-.135	.125	-.157	.078	1.21	-.16	-.335	-.258	.254	-.642	-.375	3:41
3:42	1.23	3.37	-.183	-.198	-.200	-.123	.134	-.167	.079	1.21	.60	-.321	-.261	.269	-.607	-.383	3:42
3:43	1.23	2.42	-.182	-.198	-.206	-.113	.135	-.175	.083	1.21	1.54	-.300	-.246	.270	-.533	-.356	3:43
3:44	1.23	1.42	-.195	-.200	-.205	-.098	.142	-.174	.081	1.21	2.65	-.273	-.225	.248	-.440	-.320	3:44
3:45	1.23	1.01	-.187	-.199	-.211	-.089	.144	-.166	.082	1.21	3.79	-.238	-.194	.210	-.361	-.256	3:45
3:46	1.22	.74	-.185	-.199	-.213	-.079	.150	-.158	.078	1.21	4.83	-.210	-.162	.172	-.304	-.196	3:46
3:47	1.22	.86	-.185	-.201	-.213	-.081	.152	-.156	.080	1.20	5.56	-.185	-.135	.135	-.257	-.147	3:47
3:48	1.22	1.27	-.182	-.203	-.206	-.081	.156	-.151	.082	1.20	6.04	-.170	-.118	.105	-.221	-.127	3:48
3:49	1.22	2.02	-.181	-.198	-.200	-.083	.157	-.142	.078	1.20	6.14	-.167	-.117	.098	-.205	-.122	3:49
3:50	1.22	2.54	-.181	-.198	-.204	-.084	.159	-.141	.082	1.20	5.84	-.171	-.118	.108	-.211	-.130	3:50
3:51	1.22	3.39	-.184	-.203	-.200	-.092	.156	-.135	.081	1.20	5.33	-.184	-.127	.122	-.236	-.149	3:51
3:52	1.22	4.13	-.181	-.196	-.196	-.099	.152	-.134	.089	1.20	4.69	-.196	-.142	.138	-.272	-.173	3:52
3:53	1.22	4.59	-.183	-.200	-.198	-.110	.148	-.132	.083	1.20	3.89	-.212	-.159	.156	-.308	-.204	3:53
3:54	1.22	4.78	-.178	-.200	-.198	-.128	.142	-.133	.081	1.20	3.04	-.231	-.166	.174	-.335	-.197	3:54
3:55	1.22	4.68	-.185	-.201	-.198	-.131	.139	-.132	.081	1.20	2.34	-.252	-.201	.193	-.349	-.282	3:55
3:56	1.22	4.62	-.182	-.200	-.196	-.132	.136	-.139	.079	1.20	1.84	-.265	-.217	.214	-.384	-.319	3:56
3:57	1.22	4.10	-.178	-.198	-.201	-.135	.134	-.148	.080	1.20	1.58	-.276	-.228	.232	-.419	-.341	3:57
3:58	1.22	3.49	-.181	-.198	-.201	-.126	.136	-.157	.078	1.20	1.57	-.272	-.228	.237	-.429	-.331	3:58
3:59	1.22	3.04	-.178	-.197	-.201	-.117	.137	-.161	.080	1.20	1.94	-.247	-.164	.198	-.342	-.201	3:59
3:60	1.21	2.27	-.186	-.197	-.202	-.116	.141	-.165	.084	1.20	2.02	-.086	-.014	-.059	-.098	-.045	3:60
3:61	1.21	2.08	-.186	-.196	-.200	-.114	.147	-.169	.084	1.20	2.00	.053	.103	.059	.014	.011	3:61
3:62	1.21	1.89	-.181	-.198	-.208	-.109	.150	-.167	.085	1.20	2.00	.047	.090	.054	.021	-.007	3:62
3:63	1.21	1.85	-.181	-.197	-.205	-.106	.152	-.161	.084	1.20	1.99	.003	.061	.025	-.019	-.030	3:63
3:64	1.21	1.93	-.182	-.198	-.202	-.108	.153	-.156	.084	1.20	2.06	-.031	.036	.004	-.049	-.047	3:64
3:65	1.21	2.12	-.178	-.197	-.211	-.106	.154	-.153	.082	1.20	2.08	-.061	.016	-.009	-.057	-.050	3:65
3:66	1.21	2.34	-.177	-.198	-.206	-.116	.158	-.151	.085	1.20	2.06	-.091	.012	-.018	-.079	-.067	3:66
3:67	1.21	2.67	-.178	-.197	-.203	-.112	.159	-.153	.085	1.20	2.02	-.117	.007	-.029	-.089	-.073	3:67
3:68	1.21	3.22	-.178	-.199	-.202	-.117	.158	-.152	.087	1.20	2.05	-.131	.002	-.033	-.099	-.076	3:68
3:69	1.21	3.62	-.176	-.196	-.202	-.111	.160	-.147	.087	1.20	1.75	-.148	-.004	-.038	-.110	-.084	3:69
3:70	1.21	3.78	-.178	-.204	-.200	-.116	.156	-.148	.084	1.20	1.59	-.159	-.011	-.038	-.114	-.094	3:70
3:71	1.21	3.90	-.173	-.200	-.201	-.109	.155	-.147	.090	1.20	1.42	-.169	-.016	-.040	-.120	-.100	3:71
3:72	1.21	3.99	-.171	-.203	-.195	-.107	.151	-.146	.085	1.20	1.31	-.172	-.025	-.040	-.121	-.107	3:72
3:73	1.21	3.90	-.177	-.200	-.199	-.116	.152	-.145	.083	1.21	1.21	-.172	-.0				

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Table with columns for Model I and Model II. Each column contains Mach number (M), angle of attack (alpha), and pressure coefficients (Cp,1 to Cp,6 for Model I; Cp,15 to Cp,19 for Model II) against time (t/acc).

TABLE III.- Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I									Model II								
t, sec	M	α , deg	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t _s , sec	
4.60	1.17	3.03	-1.177	-1.193	-1.198	-1.108	-1.150	-1.136	1.25	1.59	-1.125	-0.008	-0.012	-0.059	-0.073	4.660	
4.61	1.17	3.09	-1.184	-1.194	-1.199	-1.107	-1.149	-1.140	1.25	1.62	-1.124	-0.006	-0.010	-0.057	-0.072	4.661	
4.62	1.17	2.93	-1.185	-1.189	-1.197	-1.105	-1.157	-1.136	1.25	1.64	-1.126	-0.006	-0.012	-0.055	-0.071	4.662	
4.63	1.17	2.91	-1.182	-1.190	-1.201	-1.105	-1.150	-1.134	1.25	1.67	-1.127	-0.009	-0.010	-0.053	-0.068	4.663	
4.64	1.17	2.80	-1.178	-1.190	-1.203	-1.105	-1.150	-1.138	1.25	1.69	-1.127	-0.007	-0.009	-0.051	-0.068	4.664	
4.65	1.17	2.81	-1.181	-1.192	-1.190	-1.105	-1.148	-1.137	1.25	1.73	-1.129	-0.007	-0.009	-0.050	-0.066	4.665	
4.66	1.17	2.73	-1.186	-1.192	-1.195	-1.109	-1.146	-1.139	1.25	1.75	-1.128	-0.007	-0.008	-0.048	-0.064	4.666	
4.67	1.17	2.61	-1.181	-1.190	-1.197	-1.108	-1.145	-1.136	1.25	1.75	-1.128	-0.008	-0.008	-0.046	-0.063	4.667	
4.68	1.17	2.67	-1.181	-1.195	-1.205	-1.108	-1.146	-1.141	1.25	1.72	-1.128	-0.008	-0.007	-0.048	-0.064	4.668	
4.69	1.17	2.61	-1.182	-1.192	-1.205	-1.109	-1.145	-1.136	1.25	1.74	-1.127	-0.008	-0.008	-0.046	-0.064	4.669	
4.70	1.17	2.59	-1.187	-1.199	-1.201	-1.103	-1.145	-1.138	1.25	1.71	-1.128	-0.008	-0.006	-0.046	-0.067	4.670	
4.71	1.17	2.61	-1.177	-1.194	-1.203	-1.108	-1.149	-1.137	1.26	1.69	-1.129	-0.009	-0.006	-0.049	-0.064	4.721	
4.72	1.17	2.70	-1.179	-1.193	-1.206	-1.101	-1.149	-1.141	1.26	1.69	-1.129	-0.009	-0.008	-0.047	-0.065	4.722	
4.73	1.17	2.76	-1.184	-1.197	-1.197	-1.111	-1.148	-1.132	1.26	1.66	-1.128	-0.009	-0.007	-0.049	-0.066	4.723	
4.74	1.17	2.75	-1.179	-1.192	-1.204	-1.102	-1.149	-1.137	1.26	1.65	-1.128	-0.009	-0.008	-0.049	-0.067	4.724	
4.75	1.16	2.81	-1.173	-1.193	-1.194	-1.105	-1.151	-1.140	1.26	1.66	-1.128	-0.008	-0.006	-0.049	-0.065	4.725	
4.76	1.16	2.82	-1.176	-1.195	-1.208	-1.108	-1.148	-1.135	1.26	1.68	-1.127	-0.008	-0.006	-0.049	-0.065	4.726	
4.77	1.16	2.91	-1.175	-1.188	-1.204	-1.100	-1.151	-1.135	1.26	1.66	-1.128	-0.008	-0.006	-0.048	-0.065	4.727	
4.78	1.16	2.84	-1.173	-1.189	-1.196	-1.104	-1.150	-1.135	1.26	1.68	-1.129	-0.006	-0.006	-0.049	-0.065	4.728	
4.79	1.16	2.84	-1.178	-1.187	-1.196	-1.106	-1.149	-1.133	1.26	1.69	-1.128	-0.008	-0.006	-0.049	-0.063	4.729	
4.80	1.16	2.79	-1.174	-1.190	-1.194	-1.107	-1.146	-1.136	1.26	1.73	-1.126	-0.005	-0.004	-0.049	-0.062	4.80	
4.81	1.16	2.76	-1.183	-1.194	-1.202	-1.108	-1.150	-1.134	1.26	1.72	-1.128	-0.006	-0.002	-0.049	-0.062	4.81	
4.82	1.16	2.77	-1.181	-1.191	-1.198	-1.113	-1.150	-1.134	1.26	1.72	-1.128	-0.006	-0.002	-0.050	-0.060	4.82	
4.83	1.16	2.65	-1.182	-1.192	-1.198	-1.113	-1.152	-1.135	1.26	1.68	-1.127	-0.008	-0.003	-0.052	-0.059	4.83	
4.84	1.16	2.66	-1.178	-1.188	-1.203	-1.111	-1.149	-1.135	1.26	1.72	-1.127	-0.008	-0.003	-0.052	-0.059	4.83	
4.85	1.16	2.69	-1.174	-1.192	-1.199	-1.112	-1.150	-1.137	1.26	1.70	-1.128	-0.007	-0.002	-0.050	-0.056	4.85	
4.86	1.16	2.74	-1.174	-1.191	-1.199	-1.112	-1.150	-1.134	1.26	1.69	-1.129	-0.007	-0.001	-0.050	-0.056	4.86	
4.87	1.16	2.70	-1.181	-1.189	-1.201	-1.112	-1.150	-1.136	1.26	1.67	-1.130	-0.005	-0.001	-0.050	-0.056	4.87	
4.88	1.16	2.72	-1.175	-1.194	-1.208	-1.110	-1.152	-1.137	1.26	1.70	-1.129	-0.007	-0.000	-0.049	-0.053	4.88	
4.89	1.16	2.62	-1.176	-1.194	-1.206	-1.112	-1.152	-1.136	1.27	1.70	-1.129	-0.006	-0.002	-0.050	-0.052	4.89	
4.90	1.16	2.65	-1.172	-1.190	-1.207	-1.113	-1.150	-1.132	1.27	1.70	-1.129	-0.005	-0.002	-0.048	-0.053	4.90	
4.91	1.16	2.82	-1.171	-1.190	-1.207	-1.111	-1.150	-1.133	1.27	1.72	-1.131	-0.005	-0.000	-0.047	-0.053	4.91	
4.92	1.16	2.77	-1.175	-1.193	-1.196	-1.116	-1.150	-1.133	1.27	1.68	-1.129	-0.003	-0.001	-0.048	-0.051	4.92	
4.93	1.16	2.84	-1.175	-1.192	-1.201	-1.115	-1.153	-1.131	1.27	1.68	-1.129	-0.003	-0.000	-0.048	-0.051	4.92	
4.94	1.15	2.69	-1.168	-1.188	-1.206	-1.115	-1.151	-1.130	1.27	1.69	-1.130	-0.003	-0.001	-0.048	-0.050	4.94	
4.95	1.15	2.79	-1.172	-1.196	-1.200	-1.118	-1.153	-1.132	1.27	1.72	-1.129	-0.003	-0.000	-0.049	-0.050	4.95	
4.96	1.15	2.81	-1.173	-1.192	-1.197	-1.118	-1.150	-1.138	1.27	1.74	-1.129	-0.003	-0.000	-0.048	-0.050	4.96	
4.97	1.15	2.69	-1.169	-1.195	-1.202	-1.113	-1.150	-1.135	1.27	1.75	-1.130	-0.004	-0.002	-0.047	-0.049	4.97	
4.98	1.15	2.74	-1.162	-1.191	-1.202	-1.112	-1.149	-1.134	1.27	1.92	-1.133	-0.004	-0.001	-0.047	-0.049	4.98	
4.99	1.15	2.70	-1.173	-1.191	-1.201	-1.114	-1.155	-1.136	1.27	2.82	-1.132	-0.005	-0.002	-0.048	-0.048	4.99	
5.00	1.15	2.54	-1.179	-1.191	-1.195	-1.114	-1.153	-1.138	1.27	1.58	-1.129	-0.006	-0.002	-0.049	-0.047	5.00	
5.01	1.15	2.55	-1.168	-1.191	-1.194	-1.107	-1.153	-1.137	1.27	1.76	-1.128	-0.007	-0.003	-0.049	-0.047	5.01	
5.02	1.15	2.65	-1.173	-1.191	-1.192	-1.116	-1.153	-1.135	1.27	1.75	-1.126	-0.006	-0.004	-0.048	-0.049	5.02	
5.03	1.15	2.64	-1.171	-1.191	-1.194	-1.115	-1.154	-1.131	1.27	1.74	-1.128	-0.003	-0.003	-0.048	-0.051	5.02	
5.04	1.15	2.53	-1.171	-1.194	-1.194	-1.118	-1.151	-1.128	1.27	1.74	-1.128	-0.003	-0.005	-0.049	-0.051	5.04	
5.05	1.15	2.56	-1.165	-1.189	-1.187	-1.113	-1.153	-1.133	1.27	1.75	-1.125	-0.004	-0.005	-0.049	-0.051	5.05	
5.06	1.15	2.71	-1.169	-1.191	-1.200	-1.115	-1.155	-1.133	1.28	1.73	-1.126	-0.004	-0.004	-0.048	-0.051	5.06	
5.07	1.15	2.67	-1.172	-1.191	-1.194	-1.117	-1.153	-1.132	1.28	1.75	-1.127	-0.004	-0.004	-0.047	-0.052	5.07	
5.08	1.15	2.65	-1.167	-1.189	-1.194	-1.114	-1.151	-1.135	1.28	1.77	-1.125	-0.005	-0.006	-0.048	-0.052	5.08	
5.09	1.15	2.67	-1.168	-1.189	-1.194	-1.117	-1.150	-1.132	1.28	1.76	-1.125	-0.005	-0.006	-0.048	-0.051	5.09	
5.10	1.15	2.67	-1.168	-1.191	-1.194	-1.117	-1.151	-1.134	1.28	1.77	-1.124	-0.003	-0.007	-0.050	-0.051	5.10	
5.11	1.15	2.74	-1.164	-1.192	-1.192	-1.116	-1.154	-1.133	1.28	1.72	-1.128	-0.006	-0.005	-0.052	-0.048	5.11	
5.12	1.15	2.72	-1.166	-1.193	-1.191	-1.107	-1.152	-1.133	1.28	1.76	-1.128	-0.005	-0.005	-0.052	-0.046	5.12	
5.13	1.14	2.74	-1.168	-1.192	-1.192	-1.119	-1.151	-1.136	1.28	1.79	-1.128	-0.002	-0.005	-0.052	-0.044	5.13	
5.14	1.14	2.68	-1.162	-1.193	-1.191	-1.118	-1.150	-1.129	1.28	1.78	-1.128	-0.003	-0.007	-0.052	-0.044	5.14	
5.15	1.14	2.68	-1.164	-1.197	-1.188	-1.116	-1.148	-1.130	1.28	1.79	-1.126	-0.003	-0.007	-0.052	-0.044	5.15	
5.16	1.14	2.77	-1.163	-1.199	-1.191	-1.117	-1.148	-1.130	1.28	1.79	-1.127	-0.003	-0.007	-0.052	-0.044	5.16	
5.17	1.14	2.65	-1.163	-1.196	-1.195	-1.115	-1.147	-1.138	1.28	1.79	-1.127	-0.003	-0.006	-0.050	-0.045	5.17	
5.18	1.14	2.69	-1.163	-1.196	-1.198	-1.117	-1.148	-1.137	1.28	1.79	-1.125	-0.005	-0.003	-0.049	-0.044	5.17	
5.19	1.14	2.61	-1.165	-1.196	-1.195	-1.117	-1.147	-1.140	1.28	1.81	-1.129	-0.005	-0.009	-0.057	-0.043	5.18	
5.20	1.14	2.56	-1.170	-1.186	-1.188	-1.114	-1.151	-1.143	1.28	1.79	-1.126	-0.005	-0.010	-0.062	-0.044	5.19	
5.21	1.14	2.60	-1.182	-1.181	-1.191	-1.115	-1.147	-1.143	1.28	1.80	-1.128	-0.003	-0.012	-0.065	-0.042	5.20	
5.22	1.14	2.53	-1.170	-1.178	-1.187	-1.120	-1.150	-1.137	1.28	1.79	-1.127	-0.007	-0.012	-0.074	-0.041	5.21	
5.23	1.14	2.60	-1.170	-1.181	-1.189	-1.117	-1.149	-1.137	1.28	1.78	-1.128	-0.003	-0.011	-0.074	-0.040	5.22	
5.24	1.14	2.60	-1.167	-1.181	-1.187	-1.116	-1.148	-1.136	1.28	1.80	-1.126	-0.004	-0.010	-0.077	-0.040	5.23	
5.25	1.14	2.65	-1.172	-1.182	-1.180	-1.124	-1.143	-1.139	1.29	1.80	-1.125	-0.005	-0.012	-0.077	-0.040	5.24	
5.26	1.14	2.64	-1.171	-1.179	-1.175	-1.121	-1.143	-1.137	1.29	1.82	-1.127	-0.005	-0.011	-0.074	-0.039	5.25	
5.27	1.14	2.65	-1.165	-1.177	-1.171	-1.123	-1.145	-1.137	1.29	1.82	-1.126	-0.004	-0.012	-0.074	-0.039	5.26	
5.28	1.14	2.69	-1.169	-1.184	-1.171	-1.123	-1.144	-1.138	1.29	1.81	-1.125	-0.005	-0.009	-0.077	-0.039	5.27	
5.29																	

TABLE III.- Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t, sec	M	α , deg	C _{p,0}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t, sec
5.40	1.13	2.55	-.168	-.174	-.169	-.110	-.135	-.153	.098	1.29	1.89	-.127	.005	.016	-.083	-.028	5.40
5.41	1.12	2.60	-.157	-.170	-.177	-.112	-.139	-.153	.103	1.29	1.89	-.127	.007	.016	-.084	-.028	5.41
5.42	1.12	2.58	-.164	-.170	-.172	-.116	-.138	-.149	.103	1.30	1.87	-.126	.005	.016	-.089	-.028	5.42
5.43	1.12	2.66	-.167	-.176	-.178	-.111	-.137	-.156	.099	1.30	1.84	-.124	.006	.016	-.091	-.028	5.43
5.44	1.12	2.54	-.154	-.177	-.172	-.113	-.135	-.154	.100	1.30	1.86	-.124	.005	.016	-.091	-.029	5.44
5.45	1.12	2.68	-.160	-.177	-.179	-.114	-.133	-.158	.098	1.30	1.87	-.123	.007	.017	-.091	-.027	5.45
5.46	1.12	2.65	-.159	-.173	-.168	-.110	-.129	-.159	.096	1.30	1.86	-.124	.006	.017	-.094	-.026	5.46
5.47	1.12	2.61	-.162	-.173	-.170	-.114	-.128	-.156	.097	1.30	1.87	-.123	.007	.019	-.094	-.026	5.47
5.48	1.12	2.70	-.166	-.175	-.170	-.117	-.127	-.164	.098	1.30	1.89	-.124	.006	.019	-.092	-.024	5.48
5.49	1.12	2.63	-.153	-.175	-.172	-.113	-.120	-.164	.103	1.30	1.83	-.125	.007	.019	-.092	-.024	5.49
5.50	1.12	2.67	-.155	-.170	-.168	-.114	-.111	-.159	.103	1.30	1.87	-.118	.008	.021	-.092	-.025	5.50
5.51	1.12	2.66	-.155	-.163	-.162	-.110	-.111	-.161	.109	1.30	1.84	-.123	.008	.018	-.095	-.022	5.51
5.52	1.12	2.56	-.157	-.165	-.163	-.119	-.105	-.159	.104	1.30	1.90	-.122	.010	.018	-.096	-.021	5.52
5.53	1.12	2.43	-.151	-.164	-.162	-.117	-.101	-.159	.109	1.30	1.85	-.121	.010	.019	-.096	-.020	5.53
5.54	1.12	2.66	-.153	-.158	-.167	-.126	.092	-.154	.110	1.30	1.88	-.123	.010	.019	-.096	-.022	5.54
5.55	1.12	2.65	-.144	-.145	-.152	-.120	.093	-.153	.105	1.30	1.90	-.122	.010	.018	-.098	-.022	5.55
5.56	1.12	2.64	-.145	-.143	-.144	-.118	.077	-.154	.113	1.30	1.90	-.125	.008	.019	-.098	-.021	5.56
5.57	1.12	2.62	-.138	-.138	-.137	-.127	.054	-.148	.110	1.30	1.91	-.122	.008	.019	-.098	-.020	5.57
5.58	1.11	2.64	-.124	-.131	-.131	-.123	.028	-.140	.107	1.30	1.89	-.123	.009	.019	-.100	-.020	5.58
5.59	1.11	2.73	-.108	-.115	-.117	-.125	.000	-.125	.108	1.30	1.86	-.121	.013	.020	-.100	-.019	5.59
5.60	1.11	2.62	-.117	-.099	-.100	-.121	-.016	-.110	.109	1.31	1.87	-.122	.011	.021	-.101	-.018	5.60
5.61	1.11	2.63	-.083	-.086	-.084	-.121	-.077	-.100	.104	1.31	1.90	-.120	.011	.021	-.102	-.019	5.61
5.62	1.11	2.56	-.100	-.095	-.091	-.124	-.016	-.102	.110	1.31	1.86	-.120	.010	.021	-.106	-.019	5.62
5.63	1.11	2.54	-.150	-.158	-.145	-.128	.011	-.212	.113	1.31	1.74	-.118	.008	.020	-.083	-.018	5.63
5.64	1.11	2.46	-.165	-.163	-.155	-.120	.067	-.153	.108	1.31	1.52	-.119	.008	.022	-.026	-.018	5.64
5.65	1.11	2.52	-.164	-.167	-.165	-.122	.096	-.157	.108	1.31	1.15	-.125	.007	.021	-.019	-.018	5.65
5.66	1.11	2.57	-.163	-.172	-.165	-.127	.107	-.162	.111	1.31	.74	-.137	.003	.018	-.054	-.023	5.66
5.67	1.11	2.50	-.163	-.165	-.161	-.123	.111	-.157	.105	1.31	.27	-.157	-.011	.004	-.132	-.041	5.67
5.68	1.11	2.61	-.156	-.162	-.147	-.127	.110	-.161	.101	1.31	.11	-.176	-.035	-.019	-.166	-.045	5.68
5.69	1.11	2.55	-.155	-.164	-.161	-.122	.104	-.159	.111	1.31	.27	-.178	-.032	-.023	-.169	-.045	5.69
5.70	1.11	2.65	-.149	-.154	-.152	-.112	.096	-.156	.105	1.31	.61	-.172	-.028	-.013	-.160	-.037	5.70
5.71	1.11	2.58	-.143	-.154	-.146	-.118	.093	-.159	.109	1.32	1.09	-.158	-.019	.006	-.151	-.028	5.71
5.72	1.11	2.69	-.136	-.143	-.142	-.122	.086	-.156	.110	1.31	1.69	-.143	-.012	.011	-.127	-.015	5.72
5.73	1.11	2.65	-.133	-.137	-.144	-.116	.043	-.154	.110	1.31	2.23	-.132	-.001	.024	-.082	.003	5.73
5.74	1.11	2.75	-.125	-.139	-.134	-.116	.026	-.145	.111	1.31	2.70	-.117	.011	.030	-.040	.012	5.74
5.75	1.11	2.72	-.037	-.135	-.123	-.119	.011	-.122	.109	1.31	3.00	-.101	.020	.035	.000	.015	5.75
5.76	1.11	2.77	-.112	-.127	-.122	-.113	-.004	-.137	.112	1.31	3.17	-.093	.025	.039	.025	.013	5.76
5.77	1.10	2.61	-.106	-.109	-.113	-.109	-.016	-.121	.108	1.31	3.13	-.087	.032	.041	.038	.009	5.77
5.78	1.10	2.75	-.098	-.109	-.111	-.114	-.027	-.106	.104	1.32	2.90	-.084	.028	.043	.026	.000	5.78
5.79	1.10	2.68	-.101	-.121	-.110	-.119	-.044	-.101	.109	1.32	2.57	-.084	.028	.042	-.000	.010	5.79
5.80	1.10	2.39	-.098	-.118	-.078	-.114	-.030	-.107	.109	1.32	2.16	-.094	.018	.039	-.041	-.019	5.80
5.81	1.10	2.30	-.098	-.124	-.081	-.111	-.024	-.109	.109	1.32	1.76	-.104	.013	.033	-.082	-.021	5.81
5.82	1.10	2.30	-.130	-.120	-.109	-.106	.004	-.124	.111	1.32	1.69	-.143	-.012	.011	-.127	.015	5.82
5.83	1.10	2.13	-.159	-.153	-.142	-.115	.037	-.124	.108	1.32	1.26	-.122	-.001	.026	-.140	-.033	5.83
5.84	1.10	2.17	-.169	-.156	-.149	-.116	.090	-.138	.103	1.32	1.17	-.128	-.005	.026	-.163	-.035	5.84
5.85	1.10	2.21	-.172	-.151	-.152	-.117	.112	-.143	.106	1.32	1.19	-.129	-.004	.026	-.167	-.036	5.85
5.86	1.10	2.24	-.162	-.161	-.158	-.114	.115	-.147	.111	1.32	1.30	-.128	-.006	.024	-.157	-.034	5.86
5.87	1.10	2.22	-.175	-.159	-.167	-.124	.117	-.145	.108	1.32	1.47	-.128	-.001	.025	-.147	-.028	5.87
5.88	1.10	2.46	-.166	-.159	-.167	-.119	.110	-.146	.109	1.32	1.72	-.124	-.001	.026	-.140	-.023	5.88
5.89	1.10	2.42	-.163	-.164	-.160	-.122	.108	-.143	.111	1.32	2.02	-.122	.004	.026	-.126	-.013	5.89
5.90	1.10	2.55	-.160	-.161	-.163	-.125	.099	-.145	.113	1.32	2.22	-.120	.006	.027	-.111	.000	5.90
5.91	1.10	2.52	-.156	-.160	-.160	-.131	.100	-.148	.117	1.32	2.38	-.122	.009	.027	-.100	.008	5.91
5.92	1.10	2.66	-.160	-.159	-.154	-.137	.095	-.145	.114	1.32	2.47	-.123	.007	.029	-.087	.011	5.92
5.93	1.10	2.65	-.155	-.161	-.160	-.139	.087	-.020	-.061	1.32	2.49	-.126	.008	.029	-.082	.013	5.93
5.94	1.10	2.57	-.157	-.153	-.148	-.150	.083	.069	.117	1.32	2.45	-.127	.004	.029	-.087	.012	5.94
5.95	1.10	2.65	-.144	-.155	-.143	-.152	.075	-.143	.116	1.32	2.33	-.132	.002	.026	-.095	.011	5.95
5.96	1.09	2.61	-.147	-.148	-.138	-.159	.077	.276	.114	1.33	2.17	-.135	-.000	.022	-.103	.007	5.96
5.97	1.09	2.56	-.137	-.150	-.149	-.153	.065	-.138	.108	1.33	1.96	-.140	-.006	.021	-.113	.002	5.97
5.98	1.09	2.52	-.133	-.143	-.148	-.153	.057	-.147	.117	1.33	1.78	-.141	-.006	.017	-.121	-.007	5.98
5.99	1.09	2.40	-.131	-.138	-.147	-.149	.050	-.136	.114	1.33	1.69	-.140	-.008	.019	-.128	-.013	5.99
6.00	1.09	2.34	-.123	-.134	-.125	-.145	.041	-.131	.114	1.33	1.60	-.136	-.008	.019	-.133	-.021	6.00
6.01	1.09	2.36	-.121	-.124	-.125	-.136	.032	-.135	.113	1.33	1.55	-.133	-.004	.020	-.137	-.021	6.01
6.02	1.09	2.38	-.125	-.115	-.122	-.128	.017	-.123	.112	1.33	1.57	-.128	-.004	.023	-.136	-.021	6.02
6.03	1.09	2.49	-.114	-.120	-.118	-.127	.000	-.114	.111	1.33	1.66	-.124	-.002	.027	-.134	-.019	6.03
6.04	1.09	2.43	-.114	-.118	-.120	-.104	-.019	-.102	.102	1.33	1.80	-.120	.002	.032	-.131	-.016	6.04
6.05	1.09	2.40	-.102	-.105	-.100	-.087	-.025	-.097	.091	1.33	1.95	-.110	.007	.037	-.127	-.011	6.05
6.06	1.09	2.51	-.089	-.098	-.099	-.075	-.026	-.188	.087	1.33	2.12	-.101	.014	.044	-.120	-.009	6.06
6.07	1.09	2.42	-.063	-.071	-.079	-.054	-.076	-.085	.076	1.33	2.24	-.098	.015	.047	-.114	-.005	6.07
6.08	1.09	2.38	-.044	-.044	-.044	-.028	-.017	-.068	.060	1.33	2.30	-.096	.018	.046	-.111	-.004	6.08
6.09	1.09	2.18	-.036	-.037	-.048	-.009	-.013	-.055	.045	1.33	2.33	-.097	.018	.047	-.109	-.001	6.09
6.11	1.09	1.74	-.029	-.046	-.048	.021	.011	-.011	.021	1.33	2.32	-.100	.016	.044	-.111	-.003	6.10
6.12	1.09	1.47	-.024	-.043	-.044	.030	.016	.021	.027	1.33	2.15	-.103	.016	.043	-.113	-.001	6.11
6.13	1.09	1.19	-.016	-.051	-.057	.029	.050	.053	.034	1.33	2.00	-.105	.013	.035			

TABLE III.- Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I											Model II							
t, sec	M	α, deg	$C_{p,b}$	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$		M	α, deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t, sec
6.20	1.09	1.23	.067	.158	.192	.149	.052	.330	-.080		1.34	1.94	-.123	.005	.023	-.115	.001	6.20
6.21	1.09	1.66	.057	.137	.176	.226	.691	.307	-.095		1.34	2.02	-.123	.010	.026	-.114	.004	6.21
6.22	1.09	1.80	.045	.116	.179	.234	.714	.241	-.095		1.34	2.08	-.119	.009	.030	-.112	.003	6.22
6.23	1.09	2.01	.025	.095	.120	.220	.730	.188	-.093		1.34	2.15	-.116	.008	.035	-.112	.005	6.23
6.24	1.09	1.84	.013	.077	.071	.183	.709	.160	-.075		1.34	2.22	-.115	.006	.037	-.111	.005	6.24
6.25	1.09	1.65	.003	.071	.045	.126	.647	.144	-.063		1.34	2.20	-.114	.006	.037	-.108	.004	6.25
6.26	1.09	1.27	.000	.061	.053	.046	.503	.147	-.065		1.34	2.19	-.114	.006	.038	-.110	.004	6.26
6.27	1.09	1.18	.001	.054	.061	.023	.343	.167	-.061		1.34	2.15	-.113	.004	.040	-.108	.001	6.27
6.28	1.10	1.32	.006	.050	.075	.018	.238	.219	-.064		1.34	2.11	-.112	.009	.042	-.111	.002	6.28
6.29	1.10	1.32	-.003	.050	.058	.013	.181	.232	-.046		1.34	2.02	-.109	.007	.040	-.109	.001	6.29
6.30	1.10	1.74	-.006	.042	.047	.018	.147	.212	-.031		1.34	1.98	-.110	.007	.039	-.112	.003	6.30
6.31	1.10	1.81	-.016	.040	.027	.012	.164	.180	-.015		1.34	1.97	-.111	.007	.038	-.110	.001	6.31
6.32	1.10	1.52	-.016	.030	.012	.003	.161	.156	-.001		1.35	1.91	-.114	.007	.038	-.109	.003	6.32
6.33	1.10	1.27	-.017	.043	.002	-.008	.163	.151	-.003		1.35	1.91	-.113	.007	.037	-.108	.003	6.33
6.34	1.10	.93	-.009	.043	-.008	-.029	.158	.149	-.005		1.35	1.93	-.116	.007	.037	-.104	.003	6.34
6.35	1.10	.52	-.010	.037	.028	-.040	.159	.144	.005		1.35	1.95	-.117	.007	.033	-.104	.004	6.35
6.36	1.10	.10	-.001	.045	.028	-.041	.162	.142	.003		1.35	1.96	-.117	.007	.034	-.100	.006	6.36
6.37	1.10	.03	-.001	.040	.044	-.040	.162	.141	-.003		1.35	2.01	-.119	.007	.032	-.099	.007	6.37
6.38	1.10	-.14	.005	.055	.076	-.041	.159	.137	-.075		1.35	2.03	-.121	.009	.030	-.097	.007	6.38
6.39	1.10	-.20	.026	.055	.098	-.043	.158	.136	-.103		1.35	2.04	-.119	.007	.028	-.095	.008	6.39
6.40	1.11	-.37	.014	.074	.101	-.040	.164	.132	-.117		1.35	2.08	-.122	.007	.026	-.095	.009	6.40
6.41	1.11	-.11	.019	.080	.102	-.038	.164	.138	-.119		1.35	2.11	-.120	.005	.028	-.092	.008	6.41
6.42	1.11	.04	.017	.079	.095	-.036	.164	.139	-.116		1.35	2.12	-.120	.004	.026	-.091	.007	6.42
6.43	1.11	.51	.020	.075	.106	-.032	.167	.142	-.060		1.35	2.13	-.119	.005	.026	-.090	.007	6.43
6.44	1.11	.85	.021	.069	.093	-.035	.167	.141	-.059		1.35	2.10	-.119	.005	.028	-.090	.008	6.44
6.45	1.11	1.25	.021	.067	.091	-.038	.167	.144	-.109		1.35	2.06	-.118	.003	.028	-.089	.007	6.45
6.46	1.11	1.34	.016	.069	.068	-.042	.169	.142	-.102		1.35	2.07	-.118	.004	.032	-.088	.008	6.46
6.47	1.11	1.53	.012	.058	.066	-.045	.173	.144	-.087		1.35	2.03	-.118	.004	.034	-.088	.006	6.47
6.48	1.11	1.54	.019	.068	.041	-.044	.171	.142	-.084		1.35	2.04	-.116	.003	.037	-.087	.006	6.48
6.49	1.11	1.42	.017	.059	.028	-.045	.169	.140	-.084		1.35	2.03	-.116	.003	.039	-.087	.007	6.49
6.50	1.11	1.19	.021	.054	.032	-.056	.169	.139	-.081		1.36	2.01	-.115	.004	.039	-.086	.007	6.50
6.51	1.11	.85	.013	.073	.051	-.060	.166	.138	-.086		1.36	2.02	-.115	.003	.040	-.088	.007	6.51
6.52	1.12	.48	.009	.083	.045	-.061	.163	.137	-.095		1.36	2.04	-.115	.003	.041	-.090	.008	6.52
6.53	1.12	.34	.015	.089	.061	-.061	.166	.140	-.101		1.36	2.06	-.113	.003	.042	-.091	.008	6.53
6.54	1.12	.07	.014	.087	.058	-.061	.163	.132	-.112		1.36	2.07	-.112	.004	.043	-.091	.009	6.54
6.55	1.12	.03	.013	.084	.059	-.062	.160	.131	-.112		1.36	2.10	-.109	.005	.043	-.091	.009	6.55
6.56	1.12	.23	.009	.082	.066	-.065	.162	.133	.045		1.36	2.10	-.107	.005	.043	-.090	.008	6.56
6.57	1.12	.68	.018	.076	.086	-.062	.163	.134	-.116		1.36	2.11	-.105	.007	.045	-.085	.009	6.57
6.58	1.12	1.36	.037	.076	.075	-.056	.157	.134	-.103		1.36	2.11	-.106	.007	.044	-.084	.008	6.58
6.59	1.12	1.75	.022	.065	.069	-.052	.153	.144	-.085		1.36	2.12	-.106	.009	.043	-.082	.010	6.59
6.60	1.12	2.49	.003	.046	.026	-.051	.157	.139	-.075		1.36	2.10	-.106	.009	.043	-.079	.010	6.60
6.61	1.12	2.98	-.005	.046	.008	-.049	.156	.145	-.042		1.36	2.09	-.112	.008	.038	-.079	.011	6.61
6.62	1.12	2.96	.002	.050	.016	-.048	.151	.145	-.054		1.36	2.09	-.114	.007	.036	-.079	.011	6.62
6.63	1.12	2.68	.008	.048	.010	-.049	.152	.148	-.058		1.36	2.08	-.116	.007	.033	-.082	.011	6.63
6.64	1.12	2.29	.007	.049	.001	-.054	.150	.150	-.061		1.36	2.09	-.118	.004	.033	-.085	.013	6.64
6.65	1.12	1.74	.008	.049	.000	-.053	.153	.139	-.058		1.36	2.09	-.118	.004	.033	-.088	.013	6.65
6.66	1.12	1.11	-.003	.041	-.004	-.056	.150	.142	-.063		1.36	2.09	-.117	.004	.033	-.085	.013	6.66
6.67	1.13	.23	-.003	.049	.019	-.060	.151	.138	-.067		1.36	2.11	-.119	.002	.034	-.092	.014	6.67
6.68	1.13	-.20	-.004	.042	.023	-.062	.151	.138	-.072		1.37	2.11	-.118	.001	.034	-.095	.014	6.68
6.69	1.13	-.61	.004	.043	.025	-.063	.159	.132	-.077		1.37	2.13	-.119	.000	.034	-.102	.014	6.69
6.70	1.13	-.91	.007	.056	.043	-.060	.153	.136	-.088		1.37	2.12	-.119	-.001	.037	-.108	.015	6.70
6.71	1.13	-.90	.015	.060	.050	-.064	.156	.124	-.089		1.37	2.13	-.119	.001	.037	-.119	.017	6.71
6.72	1.13	-.65	.017	.058	.050	-.061	.153	.134	-.096		1.37	2.11	-.118	.002	.037	-.132	.017	6.72
6.73	1.13	-.26	-.014	.051	.047	-.061	.151	.133	-.089		1.37	2.12	-.116	.002	.039	-.141	.017	6.73
6.74	1.13	.22	.012	.050	.042	-.059	.153	.137	-.086		1.37	2.11	-.117	.001	.039	-.150	.015	6.74
6.75	1.13	.56	.020	.057	.037	-.054	.150	.141	-.085		1.37	2.10	-.119	.001	.041	-.158	.015	6.75
6.76	1.13	1.12	.019	.057	.041	-.054	.155	.137	-.078		1.37	2.12	-.121	.000	.039	-.166	.014	6.76
6.77	1.13	1.49	.013	.058	.020	-.058	.152	.140	-.073		1.37	2.08	-.123	-.000	.040	-.173	.015	6.77
6.78	1.13	1.85	.016	.048	.012	-.052	.146	.142	-.063		1.37	2.08	-.122	-.001	.039	-.188	.015	6.78
6.79	1.13	1.87	.004	.050	.005	-.043	.145	.143	-.064		1.37	2.08	-.124	-.001	.039	-.198	.015	6.79
6.80	1.13	1.72	-.004	.058	.005	-.049	.144	.135	-.068		1.37	2.09	-.122	-.001	.037	-.205	.016	6.80
6.81	1.13	1.34	-.003	.048	.003	-.050	.143	.142	-.074		1.37	2.08	-.122	-.002	.038	-.210	.016	6.81
6.82	1.13	1.31	-.001	.052	.000	-.049	.143	.141	-.076		1.37	2.09	-.122	-.004	.039	-.210	.019	6.82
6.83	1.13	1.00	.005	.054	.004	-.052	.147	.136	-.081		1.37	2.10	-.122	-.002	.039	-.211	.019	6.83
6.84	1.13	.66	.002	.045	.003	-.053	.138	.138	-.084		1.37	2.09	-.124	-.002	.038	-.212	.020	6.84
6.85	1.13	.27	.001	.052	.002	-.057	.138	.139	-.083		1.37	2.11	-.124	-.005	.036	-.215	.022	6.85
6.86	1.13	.22	.002	.055	-.002	-.055	.143	.131	-.096		1.37	2.08	-.123	-.004	.035	-.215	.024	6.86
6.87	1.13	-.09	-.006	.047	.003	-.055	.144	.132	-.104		1.37	2.08	-.128	-.005	.034	-.215	.024	6.87
6.88	1.14	-.20	-.006	.054	-.009	-.049	.145	.128	-.101		1.37	2.12	-.129	-.005	.035	-.217	.023	6.88
6.89	1.14	.03	.003	.060	-.002	-.054	.147	.134	-.109		1.37	2.14	-.127	-.005	.035	-.216	.023	6.89
6.90	1.14	.16	-.004	.069	.021	-.050	.151	.132	-.104		1.38	2.15	-.129	-.005	.036	-.216	.023	6.90
6.91	1.14	.44	-.001	.076	.007	-.051	.153	.136	-.068		1.38	2.13	-.130	-.004	.033	-.217	.025	6.91
6.92	1.14	.70	.001	.069	.018	-.048	.156	.139	-.093		1.38	2.14	-.131	-.004	.034	-.218	.025	6.92
6.																		

TABLE III. - Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I									Model II								
t, sec	M	α , deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}	M	α , deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t, sec
7.00	1.14	.93	-.015	.050	.022	-.045	.155	.133	-.083	1.38	2.13	-.118	.002	.040	-.194	.020	7.00
7.01	1.14	.60	-.012	.051	.007	-.046	.151	.134	-.081	1.38	2.12	-.118	.006	.043	-.202	.022	7.01
7.02	1.14	.54	-.016	.062	.003	-.045	.152	.130	-.091	1.38	2.11	-.119	.005	.042	-.210	.022	7.02
7.03	1.14	.32	-.015	.053	.012	-.042	.150	.130	-.094	1.38	2.15	-.122	.001	.042	-.218	.023	7.03
7.04	1.14	.29	-.015	.046	.006	-.047	.150	.131	-.096	1.38	2.13	-.123	.000	.041	-.229	.023	7.04
7.05	1.14	.19	-.015	.050	.009	-.048	.151	.128	-.093	1.38	2.15	-.122	.001	.041	-.242	.026	7.05
7.06	1.14	.19	-.013	.043	.017	-.045	.148	.121	-.094	1.38	2.16	-.122	-.001	.041	-.238	.026	7.06
7.07	1.14	.21	-.027	.045	.002	-.044	.150	.128	-.095	1.38	2.14	-.120	.000	.044	-.225	.026	7.07
7.08	1.14	.36	-.007	.037	.001	-.041	.151	.127	-.093	1.38	2.13	-.117	.002	.045	-.208	.027	7.08
7.09	1.14	.63	-.024	.031	.003	-.041	.149	.134	-.093	1.38	2.13	-.120	.002	.045	-.203	.026	7.09
7.10	1.14	.68	-.014	.042	.016	-.037	.151	.137	-.090	1.38	2.13	-.119	.002	.043	-.209	.026	7.10
7.11	1.14	.77	-.010	.041	.005	-.037	.151	.133	-.086	1.38	2.12	-.121	.003	.040	-.220	.028	7.11
7.12	1.15	.88	-.017	.043	.001	-.036	.149	.135	-.083	1.38	2.12	-.119	.004	.041	-.221	.027	7.12
7.13	1.15	.94	-.009	.040	.012	-.042	.151	.138	-.088	1.38	2.13	-.119	.004	.041	-.206	.028	7.13
7.14	1.15	1.02	-.010	.050	.001	-.039	.146	.136	-.082	1.38	2.13	-.119	.004	.041	-.211	.028	7.14
7.15	1.15	.88	-.016	.056	.008	-.037	.146	.139	-.087	1.38	2.14	-.119	.004	.041	-.225	.027	7.15
7.16	1.15	1.05	-.004	.049	.012	-.038	.145	.135	-.083	1.38	2.12	-.121	.004	.040	-.228	.028	7.16
7.17	1.15	.75	-.007	.045	.009	-.032	.146	.137	-.082	1.38	2.13	-.121	.003	.040	-.232	.028	7.17
7.18	1.15	.87	-.012	.049	.009	-.033	.146	.137	-.078	1.38	2.13	-.122	.003	.040	-.237	.028	7.18
7.19	1.15	.67	-.009	.048	-.008	-.033	.147	.131	-.094	1.38	2.16	-.125	.000	.040	-.242	.027	7.19
7.20	1.15	.67	-.010	.045	-.007	-.029	.148	.129	-.091	1.39	2.15	-.126	-.001	.038	-.246	.026	7.20
7.21	1.15	.61	-.009	.049	-.003	-.036	.146	.124	-.088	1.39	2.15	-.128	-.001	.037	-.249	.028	7.21
7.22	1.15	.54	-.007	.042	.008	-.032	.149	.134	-.082	1.39	2.17	-.129	-.002	.036	-.256	.030	7.22
7.23	1.15	.66	-.016	.057	.008	-.030	.146	.131	-.084	1.39	2.16	-.129	-.008	.033	-.263	.030	7.23
7.24	1.15	.60	-.016	.052	.003	-.033	.149	.127	-.085	1.39	2.16	-.128	-.010	.030	-.268	.030	7.24
7.25	1.15	.65	-.006	.047	.002	-.029	.150	.131	-.086	1.39	2.19	-.126	-.007	.030	-.267	.029	7.25
7.26	1.15	.72	-.010	.046	-.010	-.028	.146	.128	-.084	1.39	2.17	-.124	-.003	.030	-.266	.028	7.26
7.27	1.16	.75	-.014	.052	.007	-.036	.149	.129	-.082	1.39	2.17	-.123	-.002	.029	-.264	.030	7.27
7.28	1.16	.78	-.009	.048	.003	-.027	.147	.132	-.081	1.39	2.19	-.123	-.004	.030	-.262	.029	7.28
7.29	1.16	.84	-.009	.050	.002	-.030	.144	.129	-.082	1.39	2.19	-.122	-.006	.029	-.257	.030	7.29
7.30	1.16	.91	-.007	.049	.006	-.025	.151	.133	-.082	1.39	2.18	-.124	-.007	.029	-.254	.032	7.30
7.31	1.16	.96	-.007	.051	.006	-.027	.143	.133	-.083	1.39	2.16	-.125	-.004	.027	-.255	.034	7.31
7.32	1.16	.92	-.012	.051	.004	-.030	.147	.134	-.082	1.39	2.20	-.127	-.006	.027	-.254	.034	7.32
7.33	1.16	.97	-.014	.053	.005	-.021	.143	.133	-.077	1.39	2.17	-.132	-.009	.027	-.252	.035	7.33
7.34	1.16	.86	-.013	.048	.009	-.024	.145	.130	-.078	1.39	2.15	-.135	-.008	.026	-.255	.034	7.34
7.35	1.16	.84	-.016	.043	-.004	-.023	.139	.127	-.078	1.39	2.15	-.135	-.004	.027	-.244	.034	7.35
7.36	1.16	.79	-.013	.050	.003	-.022	.144	.130	-.075	1.39	2.14	-.131	-.001	.030	-.232	.033	7.36
7.37	1.16	.70	-.014	.046	.007	-.026	.145	.132	-.082	1.39	2.10	-.120	.005	.024	-.195	.031	7.37
7.38	1.16	.73	-.008	.045	.013	-.031	.144	.130	-.081	1.39	2.10	-.121	.000	.035	-.206	.032	7.38
7.39	1.16	.59	-.019	.051	.003	-.034	.139	.130	-.076	1.39	2.25	-.140	-.021	.024	-.243	.027	7.39
7.40	1.16	.73	-.008	.054	.001	-.038	.141	.128	-.085	1.39	2.54	-.160	-.042	.001	-.259	.009	7.40
7.41	1.17	.77	-.015	.047	.015	-.041	.140	.126	-.088	1.39	2.91	-.168	-.062	-.013	-.262	-.023	7.41
7.42	1.17	.84	-.014	.050	.014	-.046	.141	.135	-.090	1.39	3.21	-.173	-.078	-.025	-.257	-.075	7.42
7.43	1.17	.87	-.011	.047	.007	-.033	.142	.129	-.086	1.39	3.35	-.178	-.090	-.028	-.240	-.058	7.43
7.44	1.17	.94	-.008	.047	.008	-.032	.140	.130	-.089	1.39	3.20	-.184	-.098	.000	-.235	-.045	7.44
7.45	1.17	.90	-.009	.054	.010	-.033	.140	.135	-.082	1.39	2.66	-.194	-.111	-.023	-.242	-.128	7.45
7.46	1.17	.97	-.008	.058	.011	-.035	.139	.133	-.084	1.39	2.05	-.207	-.126	-.052	-.229	-.187	7.46
7.47	1.17	.97	-.010	.057	.006	-.028	.138	.133	-.084	1.39	1.83	-.210	-.143	-.084	-.207	-.234	7.47
7.48	1.17	1.08	-.007	.047	.007	-.033	.140	.132	-.085	1.39	1.09	-.234	-.154	-.115	-.367	-.267	7.48
7.49	1.17	1.00	-.010	.045	.008	-.030	.139	.130	-.087	1.40	.94	-.236	-.159	-.128	-.405	-.272	7.49
7.50	1.17	.91	-.014	.056	.004	-.028	.141	.129	-.083	1.40	1.06	-.231	-.160	-.134	-.421	-.273	7.50
7.51	1.17	.98	-.010	.049	.015	-.031	.140	.134	-.082	1.39	1.60	-.220	-.157	-.140	-.407	-.274	7.51
7.52	1.17	.81	-.009	.050	.011	-.033	.141	.134	-.082	1.39	2.44	-.203	-.148	-.142	-.368	-.274	7.52
7.53	1.17	.81	-.021	.060	.010	-.029	.138	.134	-.084	1.39	3.56	-.177	-.137	-.139	-.308	-.262	7.53
7.54	1.17	.79	-.016	.051	.012	-.025	.138	.136	-.084	1.39	4.58	-.150	-.119	-.130	-.257	-.246	7.54
7.55	1.17	.81	-.013	.059	.020	-.034	.139	.132	-.086	1.39	5.58	-.128	-.103	-.112	-.211	-.224	7.55
7.56	1.17	.80	-.013	.051	.012	-.033	.137	.129	-.090	1.39	6.24	-.111	-.089	-.097	-.167	-.202	7.56
7.57	1.17	.72	-.018	.057	.011	-.032	.138	.139	-.085	1.39	6.65	-.107	-.085	-.087	-.135	-.185	7.57
7.58	1.18	.91	-.018	.064	.009	-.033	.136	.132	-.090	1.39	6.65	-.115	-.086	-.089	-.120	-.181	7.58
7.59	1.18	.87	-.004	.053	.013	-.034	.141	.132	-.088	1.39	6.39	-.128	-.095	-.094	-.119	-.184	7.59
7.60	1.18	.80	-.022	.053	.010	-.033	.138	.135	-.089	1.39	5.74	-.141	-.108	-.102	-.137	-.196	7.60
7.61	1.18	.85	-.013	.058	.018	-.033	.139	.130	-.093	1.38	4.97	-.156	-.121	-.115	-.165	-.214	7.61
7.62	1.18	.85	-.011	.053	.020	-.027	.143	.130	-.094	1.38	4.15	-.171	-.135	-.131	-.200	-.238	7.62
7.63	1.18	.89	-.018	.057	.015	-.033	.132	.132	-.093	1.38	3.52	-.186	-.147	-.149	-.233	-.260	7.63
7.64	1.18	.84	-.004	.054	.013	-.036	.134	.132	-.092	1.38	2.99	-.197	-.156	-.159	-.258	-.271	7.64
7.65	1.18	.79	-.021	.053	.019	-.031	.138	.131	-.092	1.38	2.74	-.202	-.162	-.167	-.273	-.281	7.65
7.66	1.18	.89	-.009	.057	.018	-.034	.134	.131	-.096	1.38	2.74	-.204	-.163	-.169	-.281	-.285	7.66
7.67	1.18	.80	-.012	.058	.016	-.030	.134	.130	-.092	1.38	3.01	-.197	-.159	-.168	-.278	-.280	7.67
7.68	1.18	.82	-.006	.052	.015	-.030	.133	.130	-.098	1.38	3.48	-.186	-.151	-.163	-.269	-.276	7.68
7.69	1.18	.91	-.001	.053	.017	-.031	.135	.129	-.092	1.38	4.06	-.174	-.140	-.152	-.254	-.268	7.69
7.70	1.18	.99	-.007	.051	.011	-.037	.134	.128	-.091	1.38	4.65	-.161	-.131	-.139	-.233	-.256	7.70
7.71	1.18	.83	-.013	.050	.009	-.039	.137	.131	-.092	1.37	5.16	-.150	-.121	-.128	-.206	-.241	7.71
7.72	1.19	.78	-.009	.051	.012	-.036	.133	.131	-.092	1.37	5.49	-.142	-.115	-.119	-.186	-.230	7.72
7.73	1.19	.89	-.007	.053	.008	-.031	.135	.130	-.092	1.37	5.66	-.138	-.113	-.114	-.173	-.223	7.73
7.74	1.19	.89	-.005</														

TABLE III. - Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I										Model II							
t_c , sec	M	α , deg	$C_{p,b}$	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	M	α , deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t_c , sec
7.80	1.19	.89	-.001	.061	.015	-.024	.135	.139	-.095	1.37	3.65	-.188	-.151	-.153	-.256	-.282	7.80
7.81	1.19	1.09	-.003	.067	.019	-.029	.133	.133	-.092	1.36	3.91	-.190	-.153	-.159	-.266	-.289	7.81
7.82	1.19	.99	-.001	.056	-.122	-.029	.138	.135	-.091	1.36	3.53	-.189	-.154	-.162	-.269	-.292	7.82
7.83	1.20	.98	-.002	.051	.024	-.028	.136	.131	-.093	1.36	3.68	-.187	-.151	-.159	-.267	-.290	7.83
7.84	1.20	.96	-.006	.059	.030	-.030	.135	.133	-.089	1.36	3.97	-.181	-.148	-.156	-.263	-.284	7.84
7.85	1.20	.99	-.001	.050	.023	-.031	.134	.130	-.093	1.36	4.28	-.178	-.143	-.151	-.253	-.277	7.85
7.86	1.20	.96	-.004	.050	.022	-.033	.133	.128	-.027	1.36	4.58	-.172	-.140	-.143	-.239	-.266	7.86
7.87	1.20	.95	-.006	.052	.026	-.024	.139	.128	-.091	1.36	4.82	-.167	-.134	-.137	-.220	-.259	7.87
7.88	1.20	.91	-.002	.055	.028	-.029	.131	.130	-.091	1.36	5.00	-.164	-.131	-.133	-.209	-.253	7.88
7.89	1.20	.93	-.006	.059	.019	-.027	.135	.128	-.093	1.36	5.06	-.163	-.130	-.131	-.204	-.249	7.89
7.90	1.20	.92	-.002	.053	.015	-.030	.136	.133	-.090	1.36	5.02	-.163	-.131	-.132	-.203	-.247	7.90
7.91	1.20	.96	-.006	.049	.015	-.036	.129	.129	-.094	1.35	4.88	-.168	-.133	-.135	-.208	-.250	7.91
7.92	1.20	.85	-.001	.053	.011	-.027	.135	.131	-.090	1.35	4.70	-.171	-.137	-.138	-.216	-.255	7.92
7.93	1.20	.78	-.001	.051	.015	-.035	.135	.127	-.093	1.35	4.48	-.177	-.141	-.140	-.226	-.263	7.93
7.94	1.21	.94	-.009	.064	.012	-.031	.132	.275	-.089	1.35	4.28	-.181	-.145	-.145	-.239	-.272	7.94
7.95	1.21	.90	-.006	.062	.015	-.034	.134	.129	-.088	1.35	4.11	-.182	-.140	-.151	-.250	-.278	7.95
7.96	1.21	.85	-.004	.054	.022	-.027	.132	.127	-.087	1.35	3.99	-.184	-.150	-.148	-.262	-.285	7.96
7.97	1.21	.89	-.007	.058	.023	-.038	.136	.128	-.090	1.35	3.94	-.186	-.152	-.155	-.261	-.288	7.97
7.98	1.21	.93	-.006	.054	.015	-.033	.135	.128	-.092	1.35	3.97	-.185	-.152	-.156	-.264	-.289	7.98
7.99	1.21	.98	-.002	.051	.017	-.030	.136	.126	-.090	1.35	4.05	-.184	-.151	-.155	-.264	-.289	7.99
8.00	1.21	.99	-.003	.043	.022	-.033	.136	.129	-.094	1.35	4.16	-.180	-.148	-.154	-.263	-.286	8.00
8.01	1.21	.98	.007	.052	.013	-.030	.137	.130	-.096	1.34	4.33	-.177	-.143	-.152	-.257	-.293	8.01
8.02	1.21	.86	.006	.047	.023	-.031	.138	.129	-.094	1.34	4.50	-.175	-.142	-.147	-.247	-.278	8.02
8.03	1.21	1.09	.006	.051	.022	-.033	.136	.130	-.092	1.34	4.61	-.174	-.140	-.144	-.242	-.275	8.03
8.04	1.21	1.06	.002	.044	.014	-.028	.140	.127	-.029	1.34	4.68	-.173	-.140	-.142	-.238	-.273	8.04
8.05	1.22	1.00	.000	.048	.021	-.028	.137	.126	-.094	1.34	4.73	-.173	-.141	-.142	-.233	-.271	8.05
8.06	1.22	1.09	-.002	.046	.009	-.027	.136	.127	-.093	1.34	4.68	-.175	-.141	-.143	-.234	-.271	8.06
8.07	1.22	1.00	-.001	.046	.019	-.030	.136	.127	-.094	1.34	4.63	-.177	-.144	-.144	-.236	-.273	8.07
8.08	1.22	1.06	-.001	.044	.008	-.028	.135	.243	-.092	1.34	4.56	-.179	-.146	-.146	-.239	-.275	8.08
8.09	1.22	.94	-.002	.044	.013	-.025	.136	.127	-.093	1.34	4.45	-.181	-.148	-.147	-.246	-.278	8.09
8.10	1.22	.98	.002	.039	.007	-.025	.138	.126	-.095	1.34	4.36	-.185	-.151	-.151	-.248	-.283	8.10
8.11	1.22	.81	-.003	.036	.017	-.029	.141	.126	-.098	1.33	4.24	-.187	-.154	-.154	-.256	-.285	8.11
8.12	1.22	.55	-.005	.039	.009	-.030	.142	.234	-.097	1.33	4.17	-.188	-.154	-.155	-.262	-.288	8.12
8.13	1.22	-.02	.000	.032	.004	-.025	.142	.119	-.102	1.33	4.16	-.190	-.154	-.157	-.265	-.290	8.13
8.14	1.22	-.61	-.016	.033	.003	-.020	.142	.116	-.101	1.33	4.17	-.188	-.154	-.157	-.267	-.289	8.14
8.15	1.22	-1.10	-.018	.034	-.003	-.016	.139	.110	-.104	1.33	4.18	-.189	-.153	-.157	-.269	-.289	8.15
8.16	1.23	-1.36	-.025	.036	-.005	-.001	.139	.106	-.107	1.33	4.25	-.189	-.153	-.157	-.266	-.289	8.16
8.17	1.23	-1.36	-.013	.038	-.006	.004	.138	.106	-.108	1.33	4.33	-.188	-.151	-.156	-.263	-.287	8.17
8.18	1.23	-.97	-.016	.038	-.002	.006	.142	.105	-.103	1.33	4.39	-.184	-.149	-.154	-.259	-.286	8.18
8.19	1.23	-.60	-.013	.041	.003	-.004	.142	.109	-.101	1.33	4.52	-.184	-.148	-.152	-.256	-.285	8.19
8.20	1.23	.15	-.011	.057	.017	-.018	.142	.112	-.096	1.33	4.54	-.184	-.148	-.150	-.255	-.283	8.20
8.21	1.23	.96	.008	.041	.022	-.018	.145	.117	-.089	1.32	4.56	-.183	-.149	-.149	-.251	-.283	8.21
8.22	1.23	1.58	.001	.043	.023	-.018	.149	.120	-.090	1.32	4.55	-.182	-.149	-.150	-.253	-.283	8.22
8.23	1.23	2.06	.005	.043	.029	-.016	.150	.122	-.088	1.32	4.52	-.183	-.150	-.152	-.254	-.282	8.23
8.24	1.23	2.40	.003	.044	.021	-.013	.153	.126	-.082	1.32	4.48	-.186	-.150	-.153	-.256	-.284	8.24
8.25	1.23	2.47	.006	.039	.020	-.015	.153	.125	-.086	1.32	4.45	-.186	-.152	-.155	-.259	-.286	8.25
8.26	1.23	7.41	.007	.041	.015	-.015	.149	.124	-.086	1.32	4.38	-.190	-.154	-.156	-.264	-.289	8.26
8.27	1.23	2.14	.002	.038	.018	-.022	.149	.124	-.081	1.32	4.32	-.194	-.155	-.157	-.268	-.292	8.27
8.28	1.23	1.71	.001	.044	.013	-.016	.148	.119	-.084	1.32	4.27	-.194	-.156	-.158	-.270	-.294	8.28
8.29	1.23	1.18	-.002	.038	.015	-.022	.145	.120	-.086	1.32	4.24	-.193	-.158	-.158	-.270	-.296	8.29
8.30	1.23	.52	-.002	.141	.009	-.022	.141	.243	-.087	1.32	4.24	-.192	-.157	-.158	-.272	-.297	8.30
8.31	1.23	.18	-.004	.035	.016	-.020	.139	.110	-.087	1.31	4.24	-.194	-.157	-.156	-.275	-.296	8.31
8.32	1.23	-.04	-.005	.035	.016	-.023	.138	.112	-.094	1.31	4.28	-.193	-.158	-.157	-.272	-.296	8.32
8.33	1.23	-.18	-.017	.036	.017	-.027	.133	.110	-.062	1.31	4.34	-.194	-.157	-.158	-.272	-.297	8.33
8.34	1.23	-.47	-.012	.048	.009	-.022	.136	.107	-.089	1.31	4.38	-.192	-.156	-.158	-.268	-.293	8.34
8.35	1.23	-.23	-.010	.042	.018	-.023	.134	.111	-.092	1.31	4.41	-.193	-.155	-.156	-.269	-.293	8.35
8.36	1.24	.08	-.019	.044	.020	-.021	.138	.109	-.097	1.31	4.45	-.189	-.154	-.159	-.266	-.293	8.36
8.37	1.24	.42	-.014	.030	.027	-.020	.140	.112	-.091	1.31	4.46	-.191	-.154	-.158	-.268	-.293	8.37
8.38	1.24	.82	-.011	.047	.019	-.016	.140	.116	-.092	1.31	4.47	-.190	-.156	-.157	-.270	-.294	8.38
8.39	1.24	1.07	-.005	.046	.029	-.012	.144	.112	-.089	1.31	4.44	-.190	-.155	-.156	-.271	-.296	8.39
8.40	1.24	1.51	.003	.051	.030	-.010	.140	.116	-.082	1.31	4.45	-.190	-.157	-.157	-.272	-.298	8.40
8.41	1.24	1.78	.002	.041	.030	-.014	.140	.111	-.086	1.30	4.33	-.194	-.162	-.162	-.274	-.302	8.43
8.42	1.24	1.76	.012	.042	.024	-.012	.142	.119	-.075	1.30	4.32	-.195	-.165	-.161	-.278	-.304	8.44
8.43	1.24	1.76	-.005	.039	.019	-.011	.140	.119	-.080	1.30	4.30	-.196	-.163	-.160	-.279	-.304	8.45
8.44	1.24	1.44	-.005	.043	.026	-.011	.141	.117	-.083	1.30	4.29	-.195	-.164	-.161	-.281	-.306	8.46
8.45	1.24	1.23	-.005	.039	.050	-.011	.140	.115	-.080	1.30	4.28	-.194	-.164	-.163	-.280	-.305	8.47
8.46	1.24	.82	.005	.032	.151	-.010	.138	.115	-.081	1.30	4.28	-.194	-.164	-.163	-.280	-.305	8.47
8.47	1.24	.62	-.002	.039	.025	-.011	.136	.117	-.083	1.30	4.31	-.195	-.161	-.164	-.279	-.305	8.48
8.48	1.24	.36	.002	.036	.019	-.013	.136	.113	-.080	1.30	4.33	-.195	-.161	-.165	-.280	-.303	8.49
8.49	1.24	.32	-.005	.042	.016	-.017	.137	.111	-.003	1.30	4.35	-.195	-.162	-.164	-.278	-.306	8.50
8.50	1.24	.21	-.001	.036	.022	-.018	.128	.113	-.078	1.29	4.31	-.199	-.159	-.168	-.283	-.303	8.51
8.51	1.25	.21	-.002	.037	.014	-.018	.135	.111	-.079	1.29	4.32	-.199	-.159	-.167	-.279	-.303	8.52
8.52	1.25	.17	.005	.041	.028	-.018	.136	.113	-.081	1.29	4.36	-.199	-.159	-.167	-.281	-.305	8.53
8.53	1.25	.63	.008	.038	.032	-.019	.										

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I											Model II							
t, sec	M	α, deg	$C_{p,b}$	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	t, sec	M	α, deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t, sec
8.60	1.25	1.49	.002	.034	.029	-.010	.136	.124	-.078	1.29	4.27	-.203	-.163	-.167	-.292	-.308	8.60	
8.61	1.25	1.31	-.001	.031	.022	-.008	.132	.122	-.080	1.29	4.28	-.203	-.164	-.170	-.294	-.308	8.61	
8.62	1.26	1.31	-.008	.040	.024	-.010	.138	.120	-.077	1.28	4.28	-.205	-.162	-.168	-.295	-.308	8.62	
8.63	1.26	.82	-.006	.038	.028	-.014	.134	.115	-.079	1.28	4.28	-.205	-.160	-.169	-.294	-.310	8.63	
8.64	1.26	.74	-.004	.045	.024	-.014	.137	.121	-.074	1.28	4.28	-.205	-.162	-.169	-.296	-.309	8.64	
8.65	1.26	.71	.001	.039	.027	-.016	.133	.121	-.073	1.28	4.29	-.206	-.163	-.167	-.297	-.309	8.65	
8.66	1.26	.53	-.010	.050	.013	-.017	.130	.118	-.074	1.28	4.29	-.206	-.163	-.168	-.299	-.310	8.66	
8.67	1.26	.48	-.010	.042	.019	-.013	.132	.123	-.048	1.28	4.27	-.204	-.165	-.169	-.302	-.310	8.67	
8.68	1.26	.44	-.016	.038	.017	-.020	.132	.119	-.074	1.28	4.26	-.205	-.165	-.169	-.305	-.311	8.68	
8.69	1.26	.59	-.014	.042	.016	-.015	.134	.118	-.078	1.28	4.29	-.207	-.166	-.168	-.305	-.312	8.69	
8.70	1.26	.59	.002	.032	.012	-.015	.133	.118	-.080	1.28	4.28	-.206	-.165	-.168	-.304	-.313	8.70	
8.71	1.26	.63	-.008	.035	.017	-.013	.135	.119	-.078	1.28	4.26	-.208	-.165	-.171	-.307	-.312	8.71	
8.72	1.26	.83	-.009	.027	.011	-.012	.135	.120	-.075	1.28	4.26	-.209	-.164	-.172	-.306	-.312	8.72	
8.73	1.26	.90	.002	.027	.009	-.013	.133	.117	-.059	1.27	4.25	-.209	-.168	-.173	-.306	-.313	8.73	
8.74	1.27	.82	.000	.024	.007	-.011	.138	.121	-.074	1.27	4.24	-.210	-.167	-.172	-.305	-.314	8.74	
8.75	1.27	.52	.000	.025	.017	-.011	.136	.119	-.073	1.27	4.24	-.209	-.166	-.172	-.304	-.315	8.75	
8.76	1.27	1.31	.004	.028	.007	-.011	.136	.121	-.067	1.27	4.24	-.212	-.167	-.174	-.305	-.315	8.76	
8.77	1.27	1.17	.002	.019	.002	-.012	.136	.121	-.074	1.27	4.24	-.210	-.168	-.173	-.303	-.317	8.77	
8.78	1.27	1.16	.010	.024	.010	-.008	.137	.120	-.076	1.27	4.27	-.216	-.168	-.172	-.302	-.318	8.78	
8.79	1.27	1.09	.007	.026	.014	-.012	.138	.199	-.073	1.27	4.26	-.213	-.170	-.175	-.298	-.317	8.79	
8.80	1.27	.97	-.007	.025	.019	-.010	.134	.120	-.072	1.27	4.25	-.214	-.171	-.169	-.303	-.318	8.80	
8.81	1.27	.94	.004	.027	.005	-.013	.135	.122	-.072	1.27	4.28	-.212	-.166	-.169	-.304	-.316	8.81	
8.82	1.27	.83	-.007	.026	.003	-.011	.130	.121	-.070	1.27	4.29	-.212	-.163	-.168	-.305	-.315	8.82	
8.83	1.27	.77	-.010	.025	.015	-.012	.132	.119	-.074	1.26	4.30	-.212	-.165	-.167	-.304	-.315	8.83	
8.84	1.27	.68	-.001	.024	.019	-.014	.132	.119	-.074	1.26	4.30	-.213	-.163	-.167	-.306	-.314	8.84	
8.85	1.27	.58	-.013	.028	.007	-.013	.132	.117	-.071	1.26	4.32	-.211	-.163	-.166	-.307	-.312	8.85	
8.86	1.28	.78	-.010	.032	.010	-.013	.134	.120	-.074	1.26	4.32	-.211	-.164	-.167	-.305	-.311	8.86	
8.87	1.28	.77	-.008	.168	.010	-.013	.133	.119	-.075	1.26	4.34	-.210	-.161	-.165	-.307	-.309	8.87	
8.88	1.28	.75	-.013	.032	.013	-.013	.133	.118	-.076	1.26	4.35	-.209	-.162	-.166	-.306	-.308	8.88	
8.89	1.28	.84	-.013	.028	.009	-.012	.136	.120	-.074	1.26	4.33	-.207	-.161	-.167	-.305	-.301	8.89	
8.90	1.28	.91	-.009	.020	-.005	-.009	.133	.119	-.073	1.26	4.33	-.209	-.156	-.166	-.305	-.293	8.90	
8.91	1.28	1.01	.001	.027	.005	-.010	.135	.119	-.074	1.26	4.31	-.210	-.158	-.167	-.308	-.292	8.91	
8.92	1.28	1.00	-.010	.029	.014	-.004	.135	.122	-.070	1.26	4.32	-.210	-.160	-.167	-.310	-.290	8.92	
8.93	1.28	1.02	.003	.030	.015	-.010	.134	.120	-.064	1.26	4.28	-.211	-.161	-.169	-.311	-.289	8.93	
8.94	1.28	.99	.010	.031	.011	-.009	.134	.120	-.071	1.25	4.26	-.213	-.162	-.170	-.312	-.288	8.94	
8.95	1.28	.99	-.002	.030	.020	-.008	.134	.197	-.072	1.25	4.26	-.214	-.161	-.171	-.313	-.286	8.95	
8.96	1.28	.99	.009	.021	.016	-.010	.132	.118	-.067	1.25	4.26	-.213	-.164	-.173	-.311	-.287	8.96	
8.97	1.28	.96	-.011	.024	.002	-.015	.131	.121	-.067	1.25	4.26	-.215	-.162	-.172	-.312	-.287	8.97	
8.98	1.28	.93	.005	.021	.004	-.010	.131	.246	-.074	1.25	4.26	-.214	-.162	-.171	-.312	-.287	8.98	
8.99	1.28	.70	-.004	.016	.004	-.009	.132	.119	-.074	1.25	4.28	-.216	-.163	-.170	-.310	-.287	8.99	
9.00	1.28	.63	-.010	.015	.002	-.005	.132	.119	-.077	1.25	4.28	-.218	-.166	-.170	-.312	-.285	9.00	
9.01	1.28	.70	-.013	.009	-.005	-.010	.133	.121	-.076	1.25	4.29	-.218	-.165	-.172	-.313	-.287	9.01	
9.02	1.29	.61	-.011	.014	-.007	-.004	.132	.118	-.075	1.25	4.30	-.219	-.165	-.170	-.313	-.288	9.02	
9.03	1.29	.69	-.006	.012	-.002	-.010	.132	.118	-.080	1.25	4.31	-.220	-.164	-.170	-.314	-.288	9.03	
9.04	1.29	.73	-.008	.018	-.006	-.009	.132	.117	-.074	1.25	4.30	-.220	-.165	-.171	-.315	-.286	9.04	
9.05	1.29	.80	-.007	.010	.000	-.011	.131	.120	-.076	1.24	4.28	-.223	-.169	-.171	-.315	-.287	9.05	
9.06	1.29	.82	.007	.004	-.010	-.013	.131	.119	-.074	1.24	4.26	-.222	-.168	-.171	-.315	-.289	9.06	
9.07	1.29	.69	-.011	.020	.001	-.009	.131	.119	-.071	1.24	4.26	-.225	-.167	-.170	-.316	-.291	9.07	
9.08	1.29	1.03	.001	.026	.006	-.007	.130	.118	-.072	1.24	4.25	-.224	-.169	-.172	-.318	-.294	9.08	
9.09	1.29	.94	-.008	.026	.010	-.010	.132	.220	-.068	1.24	4.23	-.225	-.171	-.171	-.319	-.297	9.09	
9.10	1.29	.92	-.004	.024	.007	-.006	.131	.121	-.070	1.24	4.18	-.223	-.170	-.172	-.320	-.298	9.10	
9.11	1.29	1.04	-.002	.019	.001	-.006	.129	.122	-.067	1.24	4.20	-.228	-.169	-.174	-.322	-.299	9.11	
9.12	1.29	1.05	-.006	.026	.000	-.004	.132	.122	-.069	1.24	4.21	-.227	-.169	-.172	-.322	-.304	9.12	
9.13	1.29	1.18	-.015	.014	.001	-.008	.133	.122	-.069	1.24	4.20	-.227	-.170	-.172	-.324	-.305	9.13	
9.14	1.29	.89	-.016	.007	-.001	-.009	.128	.123	-.070	1.24	4.20	-.226	-.171	-.170	-.324	-.303	9.14	
9.15	1.29	.94	-.014	.020	-.007	-.005	.129	.120	-.074	1.23	4.23	-.224	-.174	-.168	-.338	-.308	9.17	
9.16	1.29	.83	-.012	.015	-.006	-.007	.130	.119	-.071	1.23	4.28	-.225	-.170	-.170	-.326	-.306	9.18	
9.17	1.29	.78	-.010	.009	.003	-.007	.130	.121	-.070	1.23	4.29	-.225	-.169	-.171	-.324	-.305	9.19	
9.18	1.30	.78	-.016	.012	.000	-.009	.129	.116	-.074	1.23	4.29	-.225	-.169	-.171	-.324	-.305	9.19	
9.19	1.30	.68	-.013	.010	.003	-.008	.130	.216	-.071	1.23	4.25	-.226	-.171	-.172	-.327	-.306	9.20	
9.20	1.30	.65	-.014	.004	-.007	-.007	.131	.118	-.072	1.23	4.23	-.227	-.170	-.171	-.326	-.307	9.21	
9.21	1.30	.72	-.012	.010	.002	-.008	.129	.119	-.070	1.23	4.24	-.228	-.170	-.170	-.328	-.306	9.22	
9.22	1.30	.72	-.007	.009	-.003	-.013	.128	.288	-.068	1.23	4.21	-.228	-.170	-.170	-.329	-.304	9.23	
9.23	1.30	.75	-.012	.009	-.002	-.009	.128	.120	-.068	1.23	4.23	-.230	-.171	-.170	-.329	-.303	9.24	
9.24	1.30	.76	.007	.007	-.001	-.009	.129	.119	-.074	1.23	4.22	-.229	-.170	-.169	-.327	-.301	9.25	
9.25	1.30	.92	-.012	.009	-.001	-.007	.128	.119	-.071	1.23	4.21	-.229	-.169	-.170	-.332	-.303	9.26	
9.26	1.30	1.02	-.003	.008	.004	-.009	.128	.120	-.067	1.23	4.19	-.232	-.168	-.170	-.334	-.304	9.27	
9.27	1.30	.88	-.002	.036	-.001	-.008	.129	.123	-.069	1.23	4.19	-.233	-.168	-.169	-.335	-.306	9.28	
9.28	1.30	1.09	.005	.019	.007	-.007	.127	.118	-.067	1.23	4.19	-.233	-.168	-.169	-.335	-.306	9.29	
9.29	1.30	1.11	-.001	.009	.006	-.003	.128	.119	-.064	1.23	4.19	-.230	-.167	-.170	-.336	-.306	9.29	
9.30	1.30	.92	-.006	.004	.003	-.005	.126	.117	-.070	1.23	4.17	-.232	-.171	-.172	-.335	-.307	9.30	
9.31	1.30	1.18	-.006	.009	-.006	-.005	.131	.268	-.067	1.23	4.19	-.233	-.171	-.170	-.337	-.308	9.31	
9.32	1.30	.91	-.006	.001	-.015	-.002	.128	.119	-.069	1.23	4.22	-.233	-.170	-.170	-.336	-.309	9.32	
9.33	1.30	.92	-.019	.007	-.014													

TABLE III. - Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Model I											Model II							
t, sec	M	α, deg	C _{p,b}	C _{p,1}	C _{p,2}	C _{p,3}	C _{p,4}	C _{p,5}	C _{p,6}		M	α, deg	C _{p,15}	C _{p,16}	C _{p,17}	C _{p,18}	C _{p,19}	t _{sec}
9.40	1.31	.86	-.022	.008	-.006	.004	.125	.116	-.070		1.22	4.25	-.234	-.175	-.167	-.332	-.309	9.40
9.41	1.31	.94	-.020	.005	-.005	.004	.127	.115	-.069		1.22	4.26	-.234	-.175	-.166	-.334	-.309	9.41
9.42	1.31	.93	-.024	.006	-.009	.002	.123	.117	-.069		1.22	4.26	-.237	-.175	-.167	-.336	-.309	9.42
9.43	1.31	1.01	-.026	.003	-.002	.004	.124	.118	.031		1.22	4.23	-.235	-.176	-.168	-.331	-.309	9.43
9.44	1.31	1.02	-.023	-.002	-.014	.001	.127	.119	-.073		1.22	4.23	-.236	-.176	-.168	-.332	-.310	9.44
9.45	1.31	.96	-.024	.000	-.008	.000	.124	.120	-.069		1.22	4.22	-.235	-.176	-.168	-.328	-.312	9.45
9.46	1.31	1.00	-.021	.000	-.006	-.001	.126	.121	-.069		1.22	4.22	-.234	-.179	-.167	-.328	-.310	9.46
9.47	1.31	.97	-.025	-.005	-.011	.001	.125	.123	-.068		1.22	4.22	-.233	-.180	-.167	-.327	-.310	9.47
9.48	1.31	1.03	-.020	-.006	-.011	.000	.125	.120	-.068		1.21	4.22	-.234	-.178	-.167	-.326	-.311	9.48
9.49	1.31	.93	-.025	-.006	-.007	.001	.127	.121	-.067		1.21	4.20	-.235	-.178	-.166	-.323	-.310	9.49
9.50	1.32	.87	-.024	-.003	-.014	.001	.125	.123	-.066		1.21	4.19	-.237	-.178	-.167	-.322	-.312	9.50
9.51	1.32	.88	-.022	.000	-.011	.000	.126	.120	-.065		1.21	4.17	-.236	-.178	-.169	-.325	-.310	9.51
9.52	1.32	.86	-.020	-.003	-.007	.001	.124	.121	-.065		1.21	4.18	-.235	-.175	-.169	-.323	-.309	9.52
9.53	1.32	.85	-.018	-.001	-.013	.000	.128	.128	-.066		1.21	4.17	-.235	-.176	-.168	-.324	-.310	9.53
9.54	1.32	.80	-.018	-.003	-.008	.000	.127	.120	-.067		1.21	4.17	-.240	-.177	-.168	-.325	-.311	9.54
9.55	1.32	.77	-.018	.004	-.009	.001	.126	.118	-.071		1.21	4.17	-.239	-.176	-.168	-.323	-.305	9.55
9.56	1.32	.83	-.021	-.004	-.009	-.001	.126	.119	-.065		1.21	4.17	-.241	-.178	-.169	-.323	-.298	9.56
9.57	1.32	.86	-.022	-.003	-.015	.004	.129	.121	-.063		1.21	4.17	-.240	-.178	-.169	-.323	-.295	9.57
9.58	1.32	.87	-.018	.001	-.010	.004	.127	.120	-.066		1.21	4.19	-.238	-.177	-.168	-.324	-.292	9.58
9.59	1.32	.78	-.016	-.008	-.017	-.001	.125	.124	-.068		1.21	4.17	-.237	-.175	-.164	-.323	-.292	9.59
9.60	1.32	.95	-.028	-.013	-.014	.001	.127	.115	-.069		1.21	4.06	-.237	-.176	-.164	-.318	-.295	9.60
9.61	1.32	.76	-.021	-.005	-.018	.001	.131	.116	-.069		1.21	3.77	-.241	-.173	-.173	-.323	-.298	9.61
9.62	1.32	.74	-.023	-.006	-.005	-.001	.129	.119	-.071		1.21	3.67	-.243	-.171	-.168	-.324	-.309	9.62
9.63	1.32	.85	-.024	-.003	-.011	.001	.128	.121	-.073		1.20	3.03	-.249	-.180	-.192	-.358	-.336	9.63
9.64	1.32	.93	-.031	-.003	-.006	.001	.129	.116	-.070		1.20	2.63	-.256	-.197	-.230	-.433	-.365	9.64
9.65	1.32	.83	-.033	-.005	-.012	.000	.129	.119	-.070		1.20	2.43	-.262	-.211	-.299	-.510	-.390	9.65
9.66	1.32	.78	-.029	-.006	-.013	.000	.130	.121	-.066		1.20	2.36	-.255	-.216	-.247	-.561	-.404	9.66
9.67	1.32	.80	-.030	-.008	-.013	.000	.131	.120	-.068		1.20	2.50	-.247	-.210	-.208	-.584	-.398	9.67
9.68	1.32	.83	-.030	-.009	-.014	.002	.130	.119	-.071		1.20	2.95	-.232	-.201	-.187	-.578	-.384	9.68
9.69	1.32	.87	-.029	-.006	-.020	-.002	.129	.117	-.071		1.20	3.49	-.215	-.185	-.169	-.557	-.359	9.69
9.70	1.32	.90	-.023	-.010	-.013	-.005	.129	.117	-.071		1.20	4.09	-.203	-.170	-.159	-.497	-.333	9.70
9.71	1.33	.86	-.036	-.013	-.020	-.008	.124	.123	-.069		1.20	4.50	-.197	-.155	-.152	-.426	-.315	9.71
9.72	1.33	.80	-.048	-.013	-.040	-.012	.127	.116	-.059		1.20	4.85	-.199	-.150	-.149	-.377	-.290	9.72
9.73	1.33	.89	-.053	-.009	-.034	-.018	.127	.112	-.053		1.20	5.09	-.203	-.146	-.147	-.349	-.263	9.73
9.74	1.33	1.32	-.060	-.023	-.050	-.021	.131	.105	-.044		1.20	5.22	-.213	-.148	-.149	-.328	-.257	9.74
9.75	1.33	1.62	-.064	-.031	-.054	-.020	.120	.100	-.035		1.20	5.14	-.222	-.161	-.151	-.309	-.261	9.75
9.76	1.33	1.56	-.079	-.037	-.061	-.011	.111	.094	-.027		1.20	4.97	-.232	-.168	-.157	-.303	-.265	9.76
9.77	1.33	1.09	-.080	-.054	-.070	-.003	.106	.091	-.019		1.20	4.70	-.246	-.179	-.186	-.301	-.273	9.77
9.78	1.33	.98	-.095	-.064	-.090	.027	.102	.094	-.014		1.19	4.32	-.261	-.190	-.188	-.304	-.284	9.78
9.79	1.33	1.01	-.102	-.089	-.118	.058	.093	.088	-.008		1.19	3.97	-.275	-.204	-.194	-.323	-.294	9.79
9.80	1.33	1.01	-.114	-.103	-.121	.071	.092	.080	.001		1.19	3.68	-.289	-.214	-.202	-.338	-.306	9.80
9.81	1.33	1.66	-.096	-.108	-.125	.085	.084	.085	.019		1.19	3.48	-.300	-.221	-.207	-.342	-.315	9.81
9.82	1.33	2.15	-.061	-.083	-.126	.089	.091	.088	.035		1.19	3.33	-.304	-.227	-.213	-.342	-.323	9.82
9.83	1.33	2.23	-.044	-.063	-.093	.084	.064	.078	.040		1.19	3.26	-.302	-.229	-.215	-.346	-.330	9.83
9.84	1.33	2.08	-.040	-.236	-.069	.069	.051	.061	.047		1.19	3.26	-.298	-.221	-.215	-.342	-.333	9.84
9.85	1.33	1.92	-.042	-.050	-.056	.045	.024	.021	.057		1.19	3.38	-.298	-.219	-.213	-.341	-.331	9.85
9.86	1.33	1.73	-.047	-.053	-.050	.017	.007	-.008	.052		1.19	3.55	-.273	-.212	-.206	-.340	-.325	9.86
9.87	1.33	1.45	-.072	-.073	-.059	.000	-.018	-.034	.070		1.19	3.78	-.259	-.202	-.197	-.342	-.317	9.87
9.88	1.33	1.25	-.094	-.077	-.078	-.034	-.030	-.074	.069		1.19	4.02	-.245	-.187	-.185	-.341	-.303	9.88
9.89	1.33	1.32	-.111	-.104	-.101	-.060	-.035	-.109	.077		1.19	4.27	-.228	-.177	-.177	-.338	-.296	9.89
9.90	1.32	1.55	-.129	-.139	-.138	-.084	-.018	-.139	.082		1.19	4.48	-.216	-.167	-.171	-.337	-.286	9.90
9.91	1.32	1.75	-.147	-.156	-.155	.100	.036	-.150	.084		1.19	4.62	-.203	-.160	-.165	-.334	-.279	9.91
9.92	1.32	2.36	-.152	-.164	-.168	.107	.068	-.169	.082		1.19	4.71	-.196	-.152	-.160	-.329	-.275	9.92
9.93	1.32	3.08	-.159	-.163	-.170	.120	.089	-.173	.083		1.18	4.72	-.191	-.152	-.157	-.325	-.274	9.93
9.94	1.32	3.67	-.166	-.162	-.163	.123	.102	-.167	.082		1.18	4.65	-.196	-.153	-.156	-.326	-.275	9.94
9.95	1.32	4.07	-.158	-.162	-.164	.131	.108	-.171	.080		1.18							
9.96	1.32	4.43	-.158	-.164	-.169	.136	.112	-.166	.076		1.18	4.35	-.213	-.164	-.162	-.339	-.294	9.96
9.97	1.32	4.58	-.160	-.160	-.167	.137	.110	-.162	.074		1.18	4.14	-.227	-.172	-.170	-.346	-.303	9.97
9.98	1.32	4.43	-.159	-.160	-.164	.137	.109	-.168	.079		1.18	3.84	-.243	-.180	-.178	-.349	-.312	9.98
9.99	1.32	4.14	-.155	-.162	-.053	.135	.107	-.159	.080		1.18	3.65	-.255	-.188	-.187	-.349	-.317	9.99
10.00	1.32	3.77	-.162	-.158	-.173	.138	.100	-.168	.082		1.18	3.52	-.263	-.193	-.194	-.344	-.318	10.00
10.01	1.32	3.42	-.164	-.157	-.162	.135	.094	-.156	.084		1.18	3.41	-.272	-.200	-.200	-.342	-.320	10.01
10.02	1.32	2.87	-.158	-.169	-.170	.138	.094	-.168	.084		1.18	3.39	-.282	-.206	-.204	-.340	-.319	10.02
10.03	1.32	2.53	-.157	-.164	-.175	.132	.095	-.165	.087		1.18	3.43	-.288	-.208	-.208	-.338	-.315	10.03
10.04	1.32	2.09	-.153	-.174	-.168	.137	.095	-.171	.087		1.18	3.49	-.287	-.208	-.209	-.332	-.312	10.04
10.05	1.32	2.07	-.157	-.168	-.177	.135	.095	-.173	.084		1.18	3.67	-.285	-.208	-.208	-.328	-.306	10.05
10.06	1.32	2.22	-.154	-.169	-.176	-.129	.100	-.166	.088		1.18	3.85	-.279	-.205	-.206	-.328	-.297	10.06
10.07	1.32	2.23	-.152	-.159	-.174	-.134	.100	-.171	.086		1.18	4.00	-.277	-.200	-.202	-.329	-.294	10.07
10.08	1.32	2.51	-.152	-.168	-.178	-.131	.097	-.165	.084		1.17	4.24	-.267	-.196	-.197	-.327	-.271	10.08
10.09	1.32	2.80	-.156	-.164	-.172	-.130	.103	-.164	.086		1.17	4.41	-.263	-.191	-.193	-.324	-.266	10.09
10.10	1.31	3.19	-.142	-.164	-.167	-.130	.098	-.161	.084		1.17	4.42	-.255	-.192	-.188	-.323	-.262	10.10
10.11	1.31	3.50	-.149															

TABLE III.- Continued
TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Continued

Table with two main columns: Model I and Model II. Each column contains a grid of data points with headers for Mach number (M), angle of attack (alpha, deg), and pressure coefficients (Cp,1 through Cp,6 for Model I; Cp,15 through Cp,19 for Model II). The rows represent time (t, sec) and Mach number (M) values.

TABLE III. - Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(a) Models I and II - Concluded

Model I											Model II										
t, sec	M	α , deg	$C_{p,1}$	$C_{p,2}$	$C_{p,3}$	$C_{p,4}$	$C_{p,5}$	$C_{p,6}$	$C_{p,7}$	$C_{p,8}$	M	α , deg	$C_{p,15}$	$C_{p,16}$	$C_{p,17}$	$C_{p,18}$	$C_{p,19}$	t, sec			
11.00	1.24	2.93	-.156	-.165	-.162	-.140	.091	-.163	.090												
11.10	1.23	2.82	-.164	-.180	-.183	-.146	.120	-.165	.084												
11.20	1.22	2.89	-.175	-.179	-.184	-.146	.128	-.153	.084												
11.30	1.22	2.77	-.173	-.186	-.192	-.137	.145	-.148	.087												
11.40	1.21	2.03	-.178	-.194	-.198	-.133	.149	-.154	.087												
11.50	1.20	2.82	-.176	-.195	-.199	-.130	.149	-.151	.087												
11.60	1.20	2.90	-.177	-.192	-.195	-.134	.145	-.156	.083												
11.70	1.19	2.74	-.177	-.187	-.203	-.132	.146	-.157	.074												
1.12	2.54	-.321	-.232	-.217	-.609	-.320	11.00			1.12	2.63	-.321	-.240	-.218	-.617	-.321	11.01				
1.12	2.76	-.322	-.234	-.215	-.601	-.316	11.02			1.12	3.00	-.314	-.227	-.212	-.527	-.305	11.03				
1.12	3.24	-.309	-.217	-.208	-.458	-.294	11.04			1.12	3.24	-.302	-.213	-.201	-.398	-.287	11.05				
1.12	3.69	-.296	-.205	-.195	-.355	-.281	11.06			1.12	4.02	-.296	-.205	-.195	-.355	-.281	11.06				
1.11	4.28	-.291	-.197	-.190	-.335	-.279	11.07			1.11	4.48	-.287	-.193	-.183	-.322	-.277	11.08				
1.11	4.48	-.287	-.193	-.183	-.322	-.277	11.08			1.11	4.61	-.284	-.191	-.182	-.312	-.274	11.09				
1.11	4.61	-.287	-.193	-.179	-.308	-.272	11.10			1.11	4.58	-.284	-.193	-.181	-.306	-.276	11.11				
1.11	4.44	-.286	-.195	-.182	-.309	-.282	11.12			1.11	4.44	-.286	-.195	-.182	-.309	-.282	11.12				
1.11	4.26	-.293	-.197	-.184	-.315	-.285	11.13			1.11	4.08	-.296	-.201	-.191	-.329	-.290	11.14				
1.11	3.80	-.300	-.207	-.194	-.355	-.297	11.15			1.11	3.57	-.305	-.208	-.200	-.390	-.302	11.16				
1.11	3.39	-.304	-.220	-.205	-.430	-.309	11.17			1.11	3.27	-.307	-.219	-.207	-.470	-.312	11.18				
1.11	3.24	-.306	-.226	-.206	-.508	-.316	11.19			1.11	3.24	-.306	-.226	-.206	-.508	-.316	11.19				
1.11	3.21	-.307	-.228	-.209	-.509	-.318	11.20			1.11	3.16	-.307	-.217	-.213	-.538	-.313	11.21				
1.11	3.21	-.307	-.214	-.212	-.548	-.313	11.22			1.11	3.49	-.299	-.215	-.208	-.497	-.310	11.24				
1.11	3.32	-.304	-.215	-.209	-.528	-.312	11.23			1.11	3.66	-.296	-.209	-.199	-.459	-.304	11.25				
1.11	3.49	-.299	-.215	-.208	-.497	-.310	11.24			1.10	3.81	-.296	-.208	-.196	-.449	-.296	11.26				
1.11	3.66	-.296	-.209	-.199	-.459	-.304	11.25			1.10	3.95	-.294	-.210	-.190	-.387	-.291	11.27				
1.10	3.81	-.296	-.208	-.196	-.449	-.296	11.26			1.10	4.07	-.291	-.197	-.188	-.359	-.288	11.28				
1.10	3.95	-.294	-.210	-.190	-.387	-.291	11.27			1.10	4.15	-.292	-.199	-.189	-.339	-.286	11.29				
1.10	4.07	-.291	-.197	-.188	-.359	-.288	11.28			1.10	4.19	-.292	-.200	-.187	-.331	-.284	11.30				
1.10	4.15	-.292	-.199	-.189	-.339	-.286	11.29			1.10	4.16	-.294	-.206	-.187	-.329	-.282	11.31				
1.10	4.19	-.292	-.200	-.187	-.331	-.284	11.30			1.10	4.14	-.297	-.202	-.190	-.337	-.284	11.32				
1.10	4.16	-.294	-.206	-.187	-.329	-.282	11.31			1.10	4.01	-.302	-.207	-.194	-.338	-.285	11.33				
1.10	4.14	-.297	-.202	-.190	-.337	-.284	11.32			1.10	3.92	-.303	-.209	-.200	-.343	-.292	11.34				
1.10	4.01	-.302	-.207	-.194	-.338	-.285	11.33			1.10	3.81	-.309	-.216	-.199	-.352	-.296	11.35				
1.10	3.92	-.303	-.209	-.200	-.343	-.292	11.34			1.10	3.67	-.314	-.213	-.204	-.362	-.302	11.36				
1.10	3.81	-.309	-.216	-.199	-.352	-.296	11.35			1.10	3.54	-.314	-.216	-.205	-.371	-.307	11.37				
1.10	3.67	-.314	-.213	-.204	-.362	-.302	11.36			1.10	3.49	-.322	-.216	-.207	-.387	-.309	11.38				
1.10	3.54	-.314	-.216	-.205	-.371	-.307	11.37			1.10	3.46	-.318	-.224	-.208	-.400	-.310	11.39				
1.10	3.49	-.322	-.216	-.207	-.387	-.309	11.38			1.10	3.45	-.322	-.222	-.208	-.417	-.312	11.40				
1.10	3.46	-.318	-.224	-.208	-.400	-.310	11.39			1.10	3.44	-.319	-.222	-.209	-.431	-.312	11.41				
1.10	3.45	-.322	-.222	-.208	-.417	-.312	11.40			1.10	3.47	-.321	-.221	-.207	-.434	-.307	11.42				
1.10	3.44	-.319	-.222	-.209	-.431	-.312	11.41			1.10	3.54	-.319	-.218	-.205	-.435	-.305	11.43				
1.10	3.47	-.321	-.221	-.207	-.434	-.307	11.42			1.09	3.62	-.312	-.214	-.202	-.431	-.306	11.44				
1.10	3.54	-.319	-.218	-.205	-.435	-.305	11.43			1.09	3.71	-.307	-.213	-.194	-.422	-.304	11.45				
1.09	3.62	-.312	-.214	-.202	-.431	-.306	11.44			1.09	3.79	-.306	-.208	-.191	-.414	-.303	11.46				
1.09	3.71	-.307	-.213	-.194	-.422	-.304	11.45			1.09	3.89	-.304	-.207	-.187	-.412	-.303	11.47				
1.09	3.79	-.306	-.208	-.191	-.414	-.303	11.46			1.09	3.85	-.304	-.195	-.186	-.403	-.302	11.48				
1.09	3.89	-.304	-.207	-.187	-.412	-.303	11.47			1.09	3.86	-.304	-.208	-.186	-.404	-.302	11.49				
1.09	3.85	-.304	-.195	-.186	-.403	-.302	11.48			1.09	3.88	-.305	-.207	-.183	-.406	-.301	11.50				
1.09	3.86	-.304	-.208	-.186	-.404	-.302	11.49			1.09	3.88	-.304	-.207	-.188	-.407	-.303	11.51				
1.09	3.88	-.305	-.207	-.183	-.406	-.301	11.50			1.09	3.83	-.307	-.208	-.188	-.410	-.305	11.52				
1.09	3.86	-.304	-.208	-.186	-.404	-.302	11.49			1.09	3.79	-.312	-.209	-.189	-.412	-.309	11.53				
1.09	3.88	-.304	-.207	-.188	-.407	-.303	11.51			1.09	3.72	-.313	-.213	-.191	-.416	-.310	11.54				
1.09	3.83	-.307	-.208	-.188	-.410	-.305	11.52			1.09	3.64	-.318	-.214	-.196	-.424	-.309	11.55				
1.09	3.79	-.312	-.209	-.189	-.412	-.309	11.53			1.09	3.60	-.320	-.216	-.199	-.435	-.310	11.56				
1.09	3.72	-.313	-.213	-.191	-.416	-.310	11.54			1.09	3.56	-.319	-.220	-.200	-.440	-.311	11.57				
1.09	3.64	-.318	-.214	-.196	-.424	-.309	11.55			1.09	3.53	-.321	-.220	-.197	-.445	-.313	11.58				
1.09	3.60	-.320	-.216	-.199	-.435	-.310	11.56			1.09	3.53	-.324	-.223	-.199	-.447	-.313	11.59				
1.09	3.56	-.319	-.220	-.200	-.440	-.311	11.57			1.09	3.51	-.322	-.223	-.199	-.448	-.313	11.60				
1.09	3.53	-.321	-.220	-.197	-.445	-.313	11.58			1.09	3.52	-.321	-.220	-.200	-.444	-.313	11.61				
1.09	3.53	-.324	-.223	-.199	-.447	-.313	11.59			1.08	3.55	-.322	-.223	-.203	-.442	-.310	11.62				
1.09	3.51	-.322	-.223	-.199	-.448	-.313	11.60			1.08	3.58	-.322	-.220	-.200	-.436	-.310	11.63				
1.09	3.52	-.321	-.220	-.200	-.444	-.313	11.61			1.08	3.65	-.320	-.221	-.198	-.427	-.312	11.64				
1.08	3.55	-.322	-.223	-.203	-.442	-.310	11.62			1.08	3.68	-.321	-.218	-.197	-.424	-.313	11.65				
1.08	3.58	-.322	-.220	-.200	-.436	-.310	11.63			1.08	3.71	-.322	-.215	-.197	-.421	-.313	11.66				
1.08	3.65	-.320																			

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV

Model III										Model IV									
t, sec	M	α , deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α , deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t, sec
3.26	1.22	-0.96	.156	-.127	.073	.001	-.187	-.053	-.192	1.20	-.65	.154	-.132	-.104	.032	.080	.014	-.043	3.01
3.27	1.22	-.92	.148	-.126	.085	.027	-.154	-.022	-.188	1.20	-.64	.154	-.131	-.101	.033	.080	.014	-.042	3.02
3.28	1.22	-.43	.134	-.125	.098	.068	-.092	.034	-.143	1.20	-.64	.154	-.130	-.103	.031	.079	.013	-.041	3.03
3.29	1.22	-.30	.118	-.126	.121	.116	-.027	.119	-.085	1.20	-.65	.153	-.130	-.104	.025	.079	.011	-.042	3.04
										1.20	-.64	.153	-.127	-.104	.028	.080	.014	-.041	3.05
										1.20	-.68	.152	-.127	-.102	.030	.080	.011	-.041	3.06
										1.20	-.69	.151	-.127	-.102	.028	.080	.012	-.041	3.07
										1.21	-.74	.152	-.124	-.103	.028	.077	.007	-.041	3.08
										1.21	-.79	.151	-.125	-.103	.027	.079	.009	-.041	3.09
										1.21	-.81	.152	-.124	-.103	.025	.078	.007	-.048	3.10
										1.21	-.90	.148	-.119	-.108	.025	.080	.007	-.045	3.11
										1.21	-.40	.147	-.119	-.108	.025	.080	.004	-.050	3.12
										1.20	2.05	.149	-.118	-.105	.029	.081	.004	-.050	3.13
										1.20	-1.57	.149	-.117	-.105	.032	.080	.000	-.050	3.14
										1.20	-1.09	.149	-.116	-.106	.024	.080	-.000	-.052	3.15
										1.20	-1.11	.150	-.116	-.106	.029	.081	-.002	-.053	3.16
										1.20	-1.11	.149	-.115	-.104	.029	.081	-.003	-.054	3.17
										1.20	-1.12	.150	-.114	-.106	.025	.081	-.003	-.055	3.18
										1.20	-1.12	.150	-.115	-.106	.028	.081	-.004	-.055	3.19
										1.20	-1.12	.150	-.115	-.102	.030	.081	-.005	-.055	3.20
										1.20	-1.15	.151	-.113	-.103	.030	.081	-.007	-.053	3.21
										1.20	-1.13	.151	-.114	-.103	.030	.081	-.005	-.055	3.22
										1.20	-1.13	.151	-.114	-.103	.030	.080	-.004	-.055	3.23
										1.20	-1.11	.150	-.110	-.102	.031	.079	-.004	-.055	3.24
										1.20	-1.05	.147	-.097	-.105	.023	.084	-.004	-.055	3.25
										1.20	-1.09	.145	-.065	-.109	.019	.083	-.004	-.058	3.26
										1.20	-1.14	.140	-.009	-.113	.009	.080	-.006	-.060	3.27
										1.20	-1.20	.127	.066	-.118	.002	.077	.010	-.066	3.28
										1.20	-1.34	.109	.132	-.127	-.012	.070	-.015	-.060	3.29
										1.20	-1.48	.056	.164	-.134	-.031	.062	-.022	-.073	3.30
										1.20	-1.68	.064	.207	-.137	-.046	.051	-.029	-.074	3.31
										1.20	-1.93	.040	.196	-.138	-.062	.033	-.037	-.079	3.32
										1.20	-2.15	.014	.166	-.140	-.074	.007	-.045	-.085	3.33
										1.20	-2.40	-.006	.134	-.141	-.084	.010	-.055	-.089	3.34
										1.20	-2.62	-.022	.092	-.137	-.093	.030	-.065	-.092	3.35
										1.20	-2.84	-.043	.046	-.138	-.102	.046	-.074	-.095	3.36
										1.20	-3.03	-.085	.005	-.138	-.106	.066	-.004	-.104	3.37
										1.20	-3.31	-.138	.037	-.186	-.108	.082	-.096	-.114	3.38
										1.20	-3.62	-.185	.094	-.180	-.109	.096	-.071	-.119	3.39
										1.20	-3.96	-.219	.134	-.129	-.107	.107	-.107	-.121	3.40
										1.19	-3.88	-.232	.159	-.130	-.107	.116	-.116	-.133	3.41
										1.19	-3.52	-.229	.177	-.129	-.110	.123	-.132	-.135	3.42
										1.19	-2.88	-.226	.180	-.135	-.116	.128	-.119	-.116	3.43
										1.19	-1.98	-.222	.176	-.142	-.126	.133	-.087	-.085	3.44
										1.19	-.52	-.217	.173	-.150	-.135	.137	-.040	-.052	3.45
										1.19	.52	-.203	.167	-.162	-.149	.139	.017	-.015	3.46
										1.19	1.78	-.205	.160	-.170	-.159	.143	.078	.020	3.47
										1.19	2.36	-.198	.151	-.176	-.166	.144	.125	.046	3.48
										1.19	2.84	-.197	.139	-.180	-.170	.144	.145	.059	3.49
										1.19	2.71	-.197	.138	-.178	-.169	.142	.153	.057	3.50
										1.19	2.18	-.203	.148	-.182	-.167	.139	.147	.049	3.51
										1.19	1.90	-.207	.159	-.176	-.162	.140	.133	.029	3.52
										1.19	.47	-.211	.163	-.170	-.157	.137	.110	.009	3.53
										1.19	-.44	-.215	.163	-.165	-.148	.138	.070	-.016	3.54
										1.19	-1.36	-.217	.163	-.156	-.130	.137	.031	-.035	3.55
										1.19	-1.91	-.216	.162	-.147	-.128	.137	-.010	-.060	3.56
										1.19	-2.20	-.216	.162	-.140	-.120	.138	-.033	-.073	3.57
										1.19	-2.23	-.216	.162	-.134	-.117	.131	-.048	-.079	3.58
										1.18	-1.92	-.213	.160	-.121	-.115	.126	-.050	-.078	3.59
										1.18	-1.45	-.211	.161	-.132	-.117	.122	-.039	-.066	3.60
										1.18	-.78	-.209	.161	-.136	-.120	.121	-.018	-.057	3.61
										1.18	-.07	-.206	.161	-.142	-.128	.120	.000	-.045	3.62
										1.18	.54	-.204	.161	-.151	-.137	.120	.035	-.019	3.63
										1.18	.97	-.203	.161	-.159	-.145	.121	.073	.002	3.64
										1.18	1.31	-.204	.160	-.165	-.152	.121	.105	.016	3.65
										1.18	1.42	-.202	.161	-.172	-.157	.129	.113	.019	3.66
										1.18	1.25	-.203	.159	-.174	-.164	.134	.115	.022	3.67
										1.18	1.01	-.203	.160	-.177	-.168	.143	.109	.015	3.68
										1.18	.49	-.203	.158	-.172	-.168	.149	.098	.006	3.69
										1.18	.06	-.205	.160	-.178	-.168	.155	.074	-.005	3.70
										1.18	-.44	-.206	.162	-.176	-.160	.153	.065	-.025	3.71
										1.18	-.84	-.207	.162	-.172	-.153	.157	.020	-.035	3.72
										1.18	-1.15	-.210	.162	-.166	-.146	.155	.007	-.050	3.73
										1.18	-1.26	-.210	.162	-.161	-.138	.150	.001	-.048	3.74
										1.18	-1.28	-.208	.162	-.154	-.134	.144	-.004	-.051	3.75
										1.18	-1.03	-.208	.163	-.149	-.131	.134	-.005	-.051	3.76
										1.18	-.73	-.207	.161	-.143	-.127	.131	-.000	-.052	3.77
										1.17	-.40	-.205	.162	-.144	-.128	.117	.010	-.047	3.78
										1.17	-.01	-.200	.162	-.141	-.130	.115	.025	-.039	3.79

TABLE III.- Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t ₀	M	α	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t ₀
sec		deg									deg								sec
3.80	1.20	-25	.047	-.134	-.198	.032	.094	-.028	.019	1.17	30	-.201	.163	-.144	-.134	-.107	.039	-.021	3.80
3.81	1.20	-30	.043	-.136	-.198	.044	.094	-.026	.021	1.17	53	-.189	.161	-.147	-.137	-.105	.057	-.009	3.81
3.82	1.20	-30	.041	-.136	-.196	.053	.094	-.038	.022	1.17	73	-.198	.163	-.151	-.140	-.105	.070	-.003	3.82
3.83	1.20	-21	.037	-.137	-.193	.039	.094	-.031	.022	1.17	89	-.199	.161	-.157	-.145	-.105	.088	-.003	3.83
3.84	1.20	-25	.036	-.135	-.200	.038	.094	-.028	.023	1.17	58	-.201	.162	-.163	-.148	-.106	.087	-.001	3.84
3.85	1.20	-11	.033	-.135	-.197	.043	.094	-.028	.023	1.17	39	-.202	.161	-.165	-.150	-.120	.082	-.001	3.85
3.86	1.20	-02	.033	-.136	-.183	.050	.093	-.020	.023	1.17	06	-.204	.159	-.169	-.154	-.130	.061	-.007	3.86
3.87	1.20	-00	.030	-.135	-.174	.069	.096	-.019	.023	1.17	-20	-.204	.162	-.171	-.156	-.133	.046	-.019	3.87
3.88	1.21	11	.028	-.136	-.170	.070	.093	-.010	.026	1.17	-48	-.206	.162	-.172	-.156	-.143	.031	-.033	3.88
3.89	1.21	10	.027	-.138	-.160	.068	.092	-.007	.025	1.17	-70	-.205	.161	-.173	-.156	-.149	.018	-.040	3.89
3.90	1.21	-19	.028	-.138	-.193	.097	.116	-.038	.001	1.17	-85	-.205	.160	-.173	-.153	-.152	.009	-.043	3.90
3.91	1.21	-19	.026	-.136	-.193	.105	.115	-.035	.001	1.17	-88	-.204	.162	-.170	-.200	-.152	.003	-.044	3.91
3.92	1.21	-20	.024	-.138	-.188	.103	.115	-.036	.003	1.17	-68	-.203	.163	-.167	-.148	-.151	.004	-.044	3.92
3.93	1.21	-31	.025	-.136	-.196	.105	.116	-.042	.001	1.17	-68	-.203	.163	-.166	-.146	-.144	.004	-.044	3.93
3.94	1.21	-37	.024	-.137	-.199	.091	.113	-.049	.002	1.17	-47	-.204	.162	-.162	-.145	-.139	.016	-.040	3.94
3.95	1.21	-48	.019	-.136	-.194	.094	.113	-.047	.003	1.17	-21	-.203	.163	-.159	-.142	-.130	.023	-.038	3.95
3.96	1.21	-52	.020	-.136	-.202	.086	.112	-.048	.001	1.16	-04	-.204	.164	-.157	-.141	-.119	.032	-.029	3.96
3.97	1.21	-50	.022	-.136	-.205	.094	.111	-.047	.001	1.16	23	-.206	.162	-.155	-.141	-.115	.043	-.014	3.97
3.98	1.21	-56	.019	-.137	-.206	.097	.112	-.055	.000	1.16	35	-.206	.164	-.155	-.143	-.106	.056	-.009	3.98
3.99	1.21	-56	.018	-.136	-.202	.100	.111	-.052	.000	1.16	41	-.207	.163	-.155	-.141	-.103	.065	-.011	3.99
4.00	1.21	-41	.015	-.135	-.203	.094	.109	-.050	.001	1.16	39	-.208	.164	-.156	-.143	-.102	.068	-.013	4.00
4.01	1.21	.07	.011	-.137	-.146	.060	.080	-.024	.030	1.16	28	-.207	.165	-.160	-.144	-.098	.065	-.008	4.01
4.02	1.21	.03	.013	-.136	-.146	.063	.079	-.015	.031	1.16	15	-.208	.164	-.161	-.147	-.102	.050	-.012	4.02
4.03	1.21	.12	.013	-.135	-.133	.062	.079	-.003	.029	1.16	-02	-.206	.166	-.162	-.147	-.112	.056	-.006	4.03
4.04	1.21	.16	.011	-.136	-.118	.064	.079	-.003	.031	1.16	-20	-.205	.164	-.164	-.149	-.117	.039	-.017	4.04
4.05	1.22	.20	.012	-.135	-.134	.057	.078	-.009	.028	1.16	-35	-.205	.166	-.165	-.153	-.123	.030	-.028	4.05
4.06	1.22	.24	.013	-.135	-.130	.061	.077	-.003	.029	1.16	-52	-.204	.165	-.169	-.153	-.127	.020	-.037	4.06
4.07	1.22	.31	.012	-.137	-.132	.062	.077	-.001	.028	1.16	-61	-.204	.166	-.168	-.153	-.134	.013	-.041	4.07
4.08	1.22	.40	.009	-.135	-.119	.064	.077	-.003	.031	1.16	-65	-.205	.167	-.170	-.153	-.139	.010	-.042	4.08
4.09	1.22	.09	.010	-.135	-.130	.057	.076	-.008	.031	1.16	-61	-.205	.165	-.170	-.154	-.142	.009	-.038	4.09
4.10	1.22	.07	.008	-.135	-.148	.056	.077	-.013	.029	1.16	-50	-.206	.165	-.171	-.156	-.141	.012	-.038	4.10
4.11	1.22	.04	.013	-.136	-.143	.057	.077	-.012	.028	1.16	-41	-.206	.168	-.171	-.153	-.139	.017	-.028	4.11
4.12	1.22	-.05	.008	-.135	-.145	.058	.077	-.012	.031	1.16	-24	-.205	.168	-.170	-.152	-.134	.022	-.022	4.12
4.13	1.22	-.12	.007	-.134	-.146	.058	.076	-.020	.029	1.16	-10	-.206	.169	-.167	-.154	-.130	.029	-.017	4.13
4.14	1.22	-.13	.006	-.136	-.141	.056	.076	-.018	.028	1.15	-00	-.206	.170	-.167	-.152	-.124	.035	-.011	4.14
4.15	1.22	-.12	.003	-.133	-.131	.059	.076	-.017	.026	1.15	14	-.205	.168	-.165	-.149	-.117	.045	-.005	4.15
4.16	1.22	-.05	.004	-.135	-.143	.057	.074	-.021	.029	1.15	19	-.204	.169	-.165	-.149	-.113	.052	-.011	4.16
4.17	1.22	-.03	.001	-.136	-.141	.061	.074	-.020	.028	1.15	20	-.209	.170	-.163	-.147	-.106	.057	-.005	4.17
4.18	1.22	.02	.001	-.135	-.136	.065	.075	-.012	.026	1.15	17	-.193	.170	-.163	-.146	-.105	.057	-.008	4.18
4.19	1.22	.07	.001	-.136	-.145	.062	.073	-.010	.027	1.15	09	-.199	.170	-.163	-.147	-.105	.054	-.007	4.19
4.20	1.22	.08	.000	-.136	-.140	.062	.075	-.008	.023	1.15	01	-.204	.172	-.161	-.146	-.104	.047	-.009	4.20
4.21	1.22	.15	.000	-.137	-.142	.070	.074	-.006	.024	1.15	-13	-.204	.172	-.162	-.147	-.106	.041	-.018	4.21
4.22	1.23	.13	.000	-.135	-.140	.064	.074	-.006	.025	1.15	-28	-.203	.172	-.162	-.148	-.107	.032	-.019	4.22
4.23	1.23	.13	-.003	-.134	-.134	.065	.073	-.008	.024	1.15	-32	-.202	.174	-.163	-.149	-.113	.027	-.025	4.23
4.24	1.23	.07	-.003	-.137	-.137	.066	.072	-.008	.021	1.15	-42	-.202	.175	-.165	-.153	-.115	.022	-.029	4.24
4.25	1.23	.05	-.001	-.137	-.142	.060	.072	-.009	.023	1.15	45	-.201	.173	-.166	-.155	-.118	.018	-.032	4.25
4.26	1.23	.01	-.003	-.134	-.144	.058	.072	-.009	.023	1.15	-48	-.201	.162	-.165	-.156	-.123	.015	-.032	4.26
4.27	1.23	-.03	-.003	-.136	-.140	.065	.072	-.015	.021	1.15	-44	-.202	.166	-.169	-.158	-.122	.015	-.030	4.27
4.28	1.23	-.07	-.002	-.136	-.144	.062	.071	-.019	.022	1.15	-40	-.203	.132	-.170	-.160	-.124	.015	-.029	4.28
4.29	1.23	-.11	-.003	-.135	-.148	.063	.072	-.015	.021	1.15	-30	-.201	.123	-.173	-.161	-.129	.019	-.023	4.29
4.30	1.23	-.12	-.003	-.135	-.152	.062	.071	-.012	.020	1.15	-19	-.201	.120	-.175	-.160	-.123	.023	-.015	4.30
4.31	1.23	-.05	-.003	-.135	-.144	.060	.066	-.010	.025	1.15	-10	-.202	.123	-.174	-.159	-.121	.029	-.011	4.31
4.32	1.23	.00	-.003	-.134	-.143	.058	.066	-.010	.023	1.15	07	-.200	.130	-.174	-.160	-.117	.031	-.007	4.32
4.33	1.23	.02	-.003	-.134	-.145	.055	.066	-.005	.023	1.14	-05	-.201	.147	-.174	-.160	-.118	.037	-.004	4.33
4.34	1.23	.06	-.001	-.135	-.143	.060	.066	-.003	.026	1.14	-02	-.200	.167	-.171	-.157	-.113	.040	-.002	4.34
4.35	1.23	.04	-.002	-.134	-.143	.057	.067	-.007	.024	1.14	-06	-.199	.180	-.169	-.155	-.113	.044	-.003	4.35
4.36	1.23	.00	-.001	-.134	-.148	.064	.066	-.006	.023	1.14	-08	-.200	.183	-.168	-.152	-.109	.043	-.003	4.36
4.37	1.23	.08	-.002	-.136	-.144	.056	.066	-.008	.024	1.14	-14	-.201	.181	-.167	-.151	-.108	.042	-.003	4.37
4.38	1.23	.08	-.003	-.133	-.145	.058	.066	-.005	.023	1.14	-18	-.200	.183	-.166	-.149	-.105	.038	-.003	4.38
4.39	1.24	.11	-.003	-.134	-.143	.064	.065	-.005	.021	1.14	-22	-.200	.181	-.164	-.149	-.103	.036	-.006	4.39
4.40	1.24	.14	-.003	-.135	-.141	.063	.066	-.005	.020	1.14	-26	-.199	.181	-.165	-.148	-.103	.030	-.010	4.40
4.41	1.24	.11	-.001	-.136	-.141	.059	.065	-.003	.023	1.14	-28	-.199	.181	-.165	-.150	-.102	.025	-.015	4.41
4.42	1.24	.06	-.006	-.133	-.140	.059	.064	-.000	.021	1.14	-30	-.198	.180	-.166	-.150	-.101	.023	-.015	4.42
4.43	1.24	.07	-.005	-.134	-.143	.052	.065	-.000	.022	1.14	-31	-.198	.181	-.166	-.150	-.101	.023	-.015	4.43
4.44	1.24	.07	-.005	-.135	-.138	.056	.065	-.005	.022	1.14	-30	-.198	.181	-.165	-.152	-.105	.023	-.015	4.44
4.45	1.24	-.02	-.006	-.136	-.147	.056	.066	-.010	.022	1.14	-29	-.199	.181	-.168	-.148	-.107	.023	-.015	4.45
4.46	1.24	-.01	-.005	-.135	-.143	.055	.066	-.007	.020	1.14	-25	-.197	.180	-.168	-.152	-.103	.023	-.016	

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t ₂ sec	M	α ₁ deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α ₁ deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t ₂ sec
4.60	1.25	-0.02	-0.007	-0.138	-0.152	0.054	0.071	-0.015	0.015	1.13	-2.9	-0.198	0.185	-0.171	-0.149	-0.095	0.028	-0.011	4.60
4.61	1.25	-0.02	-0.008	-0.139	-0.157	0.053	0.070	-0.015	0.015	1.13	-2.9	-0.199	0.184	-0.171	-0.148	-0.095	0.026	-0.016	4.61
4.62	1.25	-0.06	-0.007	-0.138	-0.159	0.045	0.071	-0.015	0.013	1.13	-2.9	-0.199	0.183	-0.171	-0.149	-0.094	0.026	-0.010	4.62
4.63	1.25	-0.06	-0.006	-0.138	-0.163	0.039	0.069	-0.015	0.012	1.13	-2.9	-0.198	0.185	-0.172	-0.148	-0.094	0.026	-0.009	4.63
4.64	1.25	-0.09	-0.007	-0.138	-0.159	0.039	0.069	-0.013	0.013	1.13	-2.6	-0.199	0.184	-0.173	-0.148	-0.093	0.027	-0.009	4.64
4.65	1.25	-0.05	-0.007	-0.138	-0.156	0.044	0.070	-0.022	0.012	1.13	-2.8	-0.198	0.184	-0.173	-0.146	-0.092	0.028	-0.010	4.65
4.66	1.25	-0.05	-0.005	-0.138	-0.156	0.051	0.070	-0.013	0.013	1.13	-2.6	-0.197	0.184	-0.173	-0.150	-0.090	0.028	-0.010	4.66
4.67	1.25	0.01	-0.006	-0.137	-0.156	0.046	0.071	-0.015	0.013	1.13	-2.5	-0.196	0.182	-0.173	-0.151	-0.093	0.028	-0.010	4.67
4.68	1.25	0.01	-0.007	-0.137	-0.152	0.044	0.072	-0.017	0.009	1.13	-2.5	-0.196	0.184	-0.174	-0.151	-0.094	0.029	-0.010	4.68
4.69	1.25	0.08	-0.006	-0.137	-0.151	0.045	0.072	-0.015	0.013	1.12	-2.4	-0.196	0.182	-0.178	-0.152	-0.095	0.029	-0.010	4.69
4.70	1.25	0.07	-0.005	-0.136	-0.151	0.052	0.072	-0.011	0.013	1.12	-2.2	-0.197	0.182	-0.178	-0.156	-0.096	0.030	-0.009	4.70
4.71	1.25	0.01	-0.004	-0.137	-0.155	0.043	0.074	-0.016	0.012	1.12	-2.4	-0.196	0.183	-0.179	-0.159	-0.097	0.032	-0.010	4.71
4.72	1.25	0.03	-0.007	-0.139	-0.155	0.049	0.073	-0.015	0.011	1.12	-2.4	-0.196	0.184	-0.180	-0.158	-0.097	0.033	-0.010	4.72
4.73	1.26	0.08	0.004	-0.137	-0.149	0.048	0.075	-0.007	0.013	1.12	-2.4	-0.197	0.181	-0.181	-0.156	-0.098	0.033	-0.010	4.73
4.74	1.26	0.02	-0.005	-0.137	-0.156	0.045	0.073	-0.015	0.012	1.12	-2.7	-0.195	0.183	-0.180	-0.157	-0.093	0.033	-0.009	4.74
4.75	1.26	0.03	-0.004	-0.137	-0.157	0.051	0.076	-0.017	0.012	1.12	-2.5	-0.195	0.182	-0.180	-0.158	-0.097	0.032	-0.009	4.75
4.76	1.26	0.03	-0.004	-0.136	-0.155	0.044	0.075	-0.013	0.012	1.12	-2.6	-0.195	0.183	-0.179	-0.155	-0.097	0.032	-0.009	4.76
4.77	1.26	-0.04	-0.001	-0.137	-0.159	0.041	0.077	-0.017	0.011	1.12	-2.6	-0.195	0.181	-0.180	-0.157	-0.095	0.032	-0.010	4.77
4.78	1.26	-0.06	-0.002	-0.137	-0.156	0.035	0.077	-0.014	0.012	1.12	-2.7	-0.195	0.181	-0.178	-0.154	-0.096	0.032	-0.010	4.78
4.79	1.26	-0.08	-0.002	-0.137	-0.162	0.035	0.079	-0.019	0.013	1.12	-2.5	-0.194	0.182	-0.177	-0.154	-0.092	0.032	-0.009	4.79
4.80	1.26	-0.10	-0.002	-0.135	-0.166	0.037	0.077	-0.015	0.011	1.12	-2.6	-0.194	0.181	-0.178	-0.152	-0.092	0.031	-0.011	4.80
4.81	1.26	0.09	-0.001	-0.138	-0.170	0.028	0.078	-0.022	0.013	1.12	-3.1	-0.196	0.183	-0.179	-0.148	-0.088	0.031	-0.011	4.81
4.82	1.26	-0.08	0.001	-0.135	-0.167	0.029	0.078	-0.026	0.012	1.12	-2.9	-0.195	0.185	-0.178	-0.145	-0.088	0.032	-0.011	4.82
4.83	1.26	-0.04	0.001	-0.136	-0.164	0.031	0.079	-0.011	0.015	1.12	-2.8	-0.195	0.184	-0.178	-0.145	-0.093	0.033	-0.011	4.83
4.84	1.26	-0.07	0.001	-0.137	-0.171	0.028	0.080	-0.023	0.012	1.12	-3.0	-0.195	0.182	-0.179	-0.140	-0.085	0.032	-0.011	4.84
4.85	1.26	-0.05	0.000	-0.137	-0.171	0.034	0.080	-0.015	0.013	1.12	-2.9	-0.194	0.182	-0.177	-0.143	-0.082	0.033	-0.011	4.85
4.86	1.26	-0.01	0.000	-0.137	-0.171	0.027	0.081	-0.015	0.017	1.12	-2.8	-0.194	0.179	-0.179	-0.142	-0.077	0.032	-0.011	4.86
4.87	1.26	-0.03	0.001	-0.136	-0.172	0.028	0.081	-0.011	0.017	1.12	-2.5	-0.171	0.158	-0.179	-0.140	-0.081	0.032	-0.011	4.87
4.88	1.26	-0.04	0.002	-0.136	-0.169	0.028	0.080	-0.011	0.017	1.11	-3.0	-0.104	0.111	-0.180	-0.115	-0.079	0.033	-0.012	4.88
4.89	1.26	0.11	0.003	-0.135	-0.170	0.024	0.080	0.000	0.016	1.12	-3.5	0.020	0.046	-0.169	-0.045	-0.046	0.033	-0.011	4.89
4.90	1.27	-0.06	0.002	-0.136	-0.175	0.020	0.081	-0.010	0.018	1.12	-4.9	0.177	-0.038	-0.136	-0.001	0.006	0.025	-0.011	4.90
4.91	1.27	0.03	-0.001	-0.136	-0.174	0.008	0.080	-0.008	0.021	1.12	-5.8	0.423	-0.141	0.186	0.064	0.010	0.016	-0.011	4.91
4.92	1.27	-0.00	0.003	-0.137	-0.170	0.013	0.079	-0.002	0.023	1.12	-5.6	0.533	-0.222	0.035	0.066	0.005	0.014	-0.011	4.92
4.93	1.27	-0.04	0.002	-0.136	-0.172	0.011	0.076	-0.010	0.020	1.12	-5.1	0.503	-0.223	-0.011	0.053	0.002	0.011	-0.010	4.93
4.94	1.27	-0.00	0.003	-0.136	-0.173	0.009	0.078	-0.003	0.020	1.12	-4.5	0.368	-0.181	-0.067	0.032	0.000	0.014	-0.009	4.94
4.95	1.27	-0.07	0.004	-0.136	-0.175	0.007	0.080	-0.005	0.021	1.12	-3.6	0.261	-0.044	-0.112	0.010	0.000	0.018	-0.010	4.95
4.96	1.27	-0.09	0.003	-0.137	-0.176	0.003	0.078	-0.005	0.022	1.12	-2.9	0.169	0.058	-0.148	-0.014	0.000	0.022	-0.006	4.96
4.97	1.27	-0.09	0.005	-0.136	-0.178	0.008	0.086	0.001	0.023	1.12	-2.9	0.092	0.117	-0.163	-0.029	0.000	0.027	-0.008	4.97
4.98	1.27	-0.06	0.007	-0.134	-0.177	0.010	0.086	-0.008	0.024	1.12	-3.0	0.032	0.151	-0.172	-0.040	0.001	0.028	-0.008	4.98
4.99	1.27	-0.06	0.006	-0.137	-0.177	0.009	0.085	-0.002	0.023	1.12	-3.7	0.006	0.159	-0.174	-0.049	0.002	0.027	-0.008	4.99
5.00	1.27	-0.05	0.003	-0.135	-0.173	-0.007	0.084	-0.005	0.023	1.12	-4.2	-0.011	0.143	-0.176	-0.050	0.005	0.023	-0.008	5.00
5.01	1.27	-0.03	0.004	-0.135	-0.165	-0.009	0.082	0.005	0.024	1.12	-5.4	-0.022	0.128	-0.179	-0.053	0.009	0.017	-0.014	5.01
5.02	1.27	0.02	0.007	-0.136	-0.165	0.010	0.079	-0.007	0.022	1.12	-6.1	0.032	0.111	-0.179	-0.055	0.008	0.011	-0.013	5.02
5.03	1.27	0.03	0.006	-0.138	-0.162	0.005	0.085	0.003	0.024	1.12	-6.9	-0.045	0.095	-0.178	-0.062	0.009	0.008	-0.013	5.03
5.04	1.27	0.04	0.009	-0.137	-0.157	-0.011	0.078	0.003	0.026	1.12	-7.5	-0.073	0.080	-0.179	-0.070	0.010	0.005	-0.013	5.04
5.05	1.27	0.03	0.005	-0.137	-0.157	-0.014	0.080	0.008	0.024	1.12	-7.6	-0.117	0.064	-0.177	-0.090	0.010	0.002	-0.013	5.05
5.06	1.27	-0.04	0.010	-0.137	-0.162	-0.016	0.082	0.004	0.027	1.12	-7.8	-0.140	0.061	-0.176	-0.097	0.010	0.001	-0.022	5.06
5.07	1.28	0.02	0.008	-0.138	-0.160	-0.019	0.080	0.003	0.026	1.12	-7.5	-0.157	0.062	-0.173	-0.109	0.010	0.000	-0.021	5.07
5.08	1.28	0.02	0.007	-0.138	-0.162	-0.022	0.083	0.010	0.025	1.12	-7.1	-0.165	0.062	-0.173	-0.106	0.010	0.001	-0.021	5.08
5.09	1.28	-0.03	0.008	-0.137	-0.167	-0.024	0.082	0.016	0.025	1.12	-6.8	-0.166	0.061	-0.175	-0.097	0.010	0.002	-0.021	5.09
5.10	1.28	-0.11	0.007	-0.139	-0.164	-0.027	0.078	0.012	0.023	1.12	-6.2	-0.166	0.062	-0.172	-0.097	0.012	0.006	-0.022	5.10
5.11	1.28	-0.03	0.007	-0.138	-0.161	-0.027	0.079	0.012	0.027	1.12	-5.8	-0.165	0.063	-0.172	-0.099	0.011	0.008	-0.016	5.11
5.12	1.28	-0.01	0.009	-0.139	-0.166	-0.031	0.081	0.019	0.025	1.12	-5.3	-0.166	0.063	-0.171	-0.097	0.010	0.011	-0.016	5.12
5.13	1.28	-0.06	0.006	-0.136	-0.163	-0.032	0.087	0.016	0.027	1.12	-4.8	-0.165	0.061	-0.171	-0.100	0.008	0.013	-0.017	5.13
5.14	1.28	-0.04	0.007	-0.137	-0.165	-0.036	0.083	0.020	0.027	1.12	-5.0	-0.165	0.062	-0.172	-0.102	0.008	0.014	-0.011	5.14
5.15	1.28	-0.04	0.007	-0.138	-0.164	-0.034	0.082	0.016	0.028	1.12	-5.0	-0.164	0.062	-0.171	-0.101	0.009	0.015	-0.012	5.15
5.16	1.28	-0.04	0.007	-0.137	-0.164	-0.036	0.082	0.028	0.029	1.12	-5.3	-0.164	0.063	-0.174	-0.096	0.008	0.013	-0.013	5.16
5.17	1.28	-0.00	0.005	-0.136	-0.161	-0.035	0.082	0.018	0.025	1.12	-5.2	-0.164	0.062	-0.174	-0.106	0.008	0.013	-0.008	5.17
5.18	1.28	-0.03	0.003	-0.136	-0.164	-0.036	0.083	0.016											

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III									Model IV										
t , sec	M	α , deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α , deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t , sec
5.40	1.29	-46	.011	-.134	-.195	-.030	.112	.001	.011	1.12	-.61	-.010	.146	-.175	-.053	.015	.012	-.012	5.40
5.41	1.30	-49	.012	-.134	-.194	-.026	.111	.006	.010	1.12	-.61	-.009	.151	-.176	-.052	.016	.010	-.019	5.41
5.42	1.30	-45	.010	-.134	-.200	-.028	.110	.012	.011	1.12	-.61	-.008	.151	-.177	-.054	.015	.008	-.020	5.42
5.43	1.30	-47	.009	-.134	-.200	-.033	.109	.007	.012	1.12	-.62	-.008	.153	-.176	-.056	.015	.008	-.020	5.43
5.44	1.30	-45	.011	-.133	-.203	-.035	.113	.004	.013	1.13	-.61	-.005	.152	-.178	-.058	.014	.006	-.020	5.44
5.45	1.30	-47	.010	-.135	-.200	-.036	.111	.010	.013	1.13	-.62	-.004	.151	-.176	-.057	.014	.006	-.021	5.45
5.46	1.30	-44	.012	-.134	-.201	-.040	.112	.001	.013	1.13	-.61	-.002	.149	-.176	-.059	.011	.005	-.021	5.46
5.47	1.30	-48	.013	-.134	-.199	-.038	.114	.002	.018	1.13	-.59	-.001	.148	-.175	-.057	.011	.005	-.021	5.47
5.48	1.30	-47	.011	-.133	-.202	-.041	.112	.004	.020	1.13	-.59	-.001	.148	-.175	-.059	.009	.005	-.021	5.48
5.49	1.30	-49	.009	-.133	-.203	-.045	.113	.001	.018	1.13	-.59	.000	.150	-.172	-.059	.009	.005	-.021	5.49
5.50	1.30	-38	.011	-.133	-.202	-.044	.110	-.002	.019	1.13	-.61	-.003	.154	-.173	-.055	.011	.008	-.021	5.50
5.51	1.30	.03	.013	-.134	-.166	-.080	.084	.027	.048	1.13	-.61	-.002	.152	-.173	-.056	.010	.008	-.021	5.51
5.52	1.30	-.01	.013	-.133	-.166	-.080	.085	.023	.047	1.13	-.57	.001	.154	-.171	-.054	.010	.009	-.021	5.52
5.53	1.30	-.01	.012	-.133	-.166	-.084	.085	.018	.052	1.13	-.57	.002	.154	-.169	-.054	.009	.010	-.021	5.53
5.54	1.30	-.03	.014	-.134	-.164	-.087	.084	.015	.050	1.13	-.57	.001	.154	-.170	-.050	.008	.011	-.021	5.54
5.55	1.30	-.04	.015	-.133	-.164	-.088	.085	.007	.052	1.13	-.56	.001	.154	-.169	-.049	.007	.011	-.021	5.55
5.56	1.30	-.02	.015	-.134	-.167	-.088	.084	.000	.055	1.13	-.56	.000	.155	-.167	-.050	.006	.011	-.021	5.56
5.57	1.30	-.03	.016	-.134	-.168	-.090	.085	-.011	.058	1.13	-.57	.000	.154	-.168	-.052	.005	.010	-.021	5.57
5.58	1.31	-.04	.015	-.133	-.164	-.089	.085	-.017	.055	1.13	-.57	.000	.155	-.166	-.052	.005	.011	-.019	5.58
5.59	1.31	-.02	.015	-.135	-.162	-.093	.084	-.028	.056	1.13	-.58	.000	.155	-.167	-.053	.003	.010	-.020	5.59
5.60	1.31	-.06	.016	-.133	-.164	-.091	.085	-.039	.058	1.13	-.59	.000	.157	-.165	-.053	.003	.010	-.020	5.60
5.61	1.31	-.06	.013	-.134	-.163	-.094	.084	-.044	.059	1.13	-.57	.000	.155	-.167	-.056	.002	.009	-.024	5.61
5.62	1.31	-.06	.016	-.134	-.162	-.095	.084	.050	.057	1.13	-.59	.000	.156	-.166	-.056	.001	.009	-.027	5.62
5.63	1.31	-.02	.019	-.133	-.164	-.095	.083	-.056	.060	1.13	-.58	.000	.155	-.166	-.057	.001	.010	-.028	5.63
5.64	1.31	-.03	.016	-.133	-.166	-.098	.086	-.063	.059	1.14	-.61	.001	.156	-.167	-.059	.000	.006	-.028	5.64
5.65	1.31	-.05	.018	-.133	-.169	-.100	.085	-.073	.054	1.14	-.59	.000	.154	-.168	-.062	.000	.007	-.028	5.65
5.66	1.31	-.01	.017	-.133	-.166	-.103	.083	-.076	.061	1.14	-.61	.002	.156	-.168	-.064	.000	.006	-.028	5.66
5.67	1.31	-.04	.018	-.133	-.159	-.100	.081	-.085	.061	1.14	-.57	.003	.156	-.168	-.065	-.000	.008	-.028	5.67
5.68	1.31	-.05	.017	-.132	-.165	-.100	.082	-.100	.062	1.14	-.58	.002	.156	-.168	-.064	-.000	.007	-.028	5.68
5.69	1.31	-.05	.024	-.134	-.163	-.102	.081	-.117	.064	1.14	-.55	.003	.155	-.169	-.064	-.002	.009	-.028	5.69
5.70	1.31	-.05	.018	-.132	-.162	-.102	.083	-.129	.064	1.14	-.55	.002	.157	-.169	-.063	-.002	.009	-.028	5.70
5.71	1.31	-.04	.018	-.133	-.166	-.106	.079	-.144	.067	1.14	-.59	.001	.161	-.172	-.060	.000	.011	-.028	5.71
5.72	1.31	-.01	.018	-.133	-.166	-.103	.084	-.151	.067	1.14	-.58	.001	.160	-.169	-.060	.000	.011	-.028	5.72
5.73	1.31	-.11	.018	-.133	-.169	-.105	.083	-.158	.066	1.14	-.56	.002	.160	-.170	-.060	.000	.014	-.027	5.73
5.74	1.32	-.04	.018	-.131	-.163	-.107	.084	-.160	.066	1.14	-.56	.001	.161	-.169	-.060	.000	.014	-.028	5.74
5.75	1.32	-.07	.018	-.131	-.162	-.107	.085	-.165	.065	1.14	-.53	.001	.161	-.166	-.062	.000	.012	-.028	5.75
5.76	1.32	-.09	.018	-.132	-.163	-.105	.085	-.163	.066	1.14	-.56	.001	.160	-.167	-.061	-.000	.013	-.028	5.76
5.77	1.32	-.12	.016	-.133	-.158	-.104	.080	-.156	.059	1.14	-.55	.001	.161	-.165	-.059	-.000	.012	-.028	5.77
5.78	1.32	-.41	.017	-.135	-.168	-.101	.071	-.157	.063	1.14	-.56	.003	.162	-.164	-.059	-.002	.012	-.028	5.78
5.79	1.32	-.88	.019	-.139	-.173	-.103	.067	-.091	.086	1.14	-.55	.003	.162	-.164	-.059	-.003	.012	-.028	5.79
5.80	1.32	-.92	.017	-.143	-.183	-.115	.046	-.093	.098	1.14	-.57	.000	.161	-.163	-.059	-.003	.011	-.028	5.80
5.81	1.32	-1.32	.016	-.145	-.195	-.138	.031	-.105	.103	1.14	-.58	.004	.162	-.162	-.058	-.004	.009	-.036	5.81
5.82	1.32	-1.55	.019	-.148	-.216	-.151	.024	-.180	.092	1.14	-.57	.003	.161	-.161	-.061	-.004	.009	-.037	5.82
5.83	1.32	-1.96	.018	-.148	-.241	-.163	.019	-.263	.043	1.14	-.58	.003	.161	-.163	-.061	-.004	.010	-.038	5.83
5.84	1.32	-1.93	.018	-.150	-.244	-.171	.021	-.273	.011	1.15	-.57	.003	.161	-.162	-.061	-.004	.009	-.039	5.84
5.85	1.32	-1.49	.019	-.147	-.234	-.165	.029	-.268	.018	1.15	-.57	.002	.163	-.163	-.062	-.004	.009	-.039	5.85
5.86	1.32	-.81	.020	-.145	-.212	-.154	.045	-.244	.044	1.15	-.57	.003	.162	-.163	-.065	-.006	.010	-.039	5.86
5.87	1.32	-.17	.017	-.144	-.192	-.129	.062	-.234	.048	1.15	-.58	.003	.162	-.164	-.065	-.004	.010	-.039	5.87
5.88	1.32	.39	.019	-.144	-.168	-.096	.074	-.161	.065	1.15	-.59	.003	.161	-.162	-.065	-.006	.010	-.040	5.88
5.89	1.32	.95	.017	-.144	-.142	-.078	.083	-.098	.075	1.15	-.57	.003	.162	-.162	-.067	-.007	.010	-.040	5.89
5.90	1.32	1.29	.017	-.143	-.122	-.059	.092	-.036	.080	1.15	-.55	.003	.163	-.163	-.067	-.007	.010	-.040	5.90
5.91	1.33	1.40	.014	-.142	-.114	-.057	.095	-.009	.081	1.15	-.59	.003	.166	-.165	-.064	-.003	.014	-.040	5.91
5.92	1.33	1.23	.014	-.141	-.107	-.057	.099	.010	.078	1.15	-.59	.004	.168	-.165	-.061	-.004	.011	-.041	5.92
5.93	1.33	.95	.011	-.139	-.112	-.062	.094	.020	.075	1.15	-.58	.004	.167	-.164	-.064	-.005	.013	-.041	5.93
5.94	1.33	.56	.011	-.137	-.124	-.075	.086	-.015	.066	1.15	-.57	.004	.167	-.165	-.064	-.005	.012	-.041	5.94
5.95	1.33	.15	.009	-.134	-.127	-.091	.075	-.075	.058	1.15	-.57	.003	.167	-.164	-.064	-.007	.013	-.041	5.95
5.96	1.33	-.41	.009	-.132	-.154	-.111	.061	-.150	.050	1.15	-.57	.003	.168	-.164	-.064	-.014	.006	-.041	5.96
5.97	1.33	-.67	.009	-.132	-.158	-.124	.051	-.191	.041	1.15	-.56	.004	.167	-.161	-.063	-.005	.013	-.038	5.97
5.98	1.33	-.89	.010	-.133	-.179	-.136	.044	-.226	.038	1.15	-.57	.004	.168	-.162	-.062	-.009	.013	-.040	5.98
5.99	1.33	-.94	.011	-.133	-.183	-.141	.038	-.244	.037	1.15	-.59	.004	.166	-.161	-.064	-.011	.012	-.039	5.99
6.00	1.33	-.93	.009	-.137	-.186	-.146	.045	-.244	.038	1.15	-.58	.005	.166	-.161	-.063	-.009	.012	-.039	6.00
6.01	1.33	-.71	.009	-.138	-.181	-.151	.041	-.238	.046	1.15	-.58	.006	.165	-.160	-.066	-.009	.011	-.040	6.01
6.02	1.33	-.45	.011	-.141	-.174	-.141	.050	-.220	.051	1.15	-.54	.009	.166	-.162	-.066	-.009	.013	-.040	6.02
6.03	1.33	-.04	.009	-.143	-.172	-.124	.062	-.193	.059	1.15	-.57	.006	.166	-.161	-.065	-.008	.013	-.039	6.03
6.04	1.33	.29	.007	-.140	-.162	-.106	.072	-.169	.067	1.15	-.08	.006	.166	-.163	-.063	-.009	.016	-.021	6.04
6.05	1.33	.48	.011	-.141	-.149	-.094	.080	-.146	.077	1.16	.22	.006	.166	-.163	-.064	-.011	.043	-.011	6.05
6.06	1.33	.68	.012	-.141	-.143	-.088	.085	-.133	.087	1.16	.78	.007	.167	-.168	-.069	-.009	.075	-.001	6.06

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III									Model IV											
t_{sec}	M	α, deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α, deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t_{sec}	
6.20	1.34	.22	.005	-.134	-.144	-.107	.056	-.168	.059	1.16	-.98	.009	.167	-.147	-.058	-.011	-.012	-.054		6.20
6.21	1.34	.40	.006	-.135	-.138	-.102	.063	-.156	.067	1.16	-.59	.010	.166	-.148	-.059	-.011	.016	-.051		6.21
6.22	1.34	.52	.003	-.134	-.137	-.098	.068	-.148	.075	1.16	-.30	.010	.165	-.151	-.057	-.010	.036	-.039		6.22
6.23	1.34	.54	.005	-.134	-.136	-.092	.070	-.145	.077	1.16	-.00	.010	.164	-.154	-.062	-.011	.050	-.024		6.23
6.24	1.35	.54	.003	-.136	-.142	-.088	.072	-.143	.079	1.16	.20	.012	.165	-.158	-.064	-.012	.060	-.012		6.24
6.25	1.35	.44	.003	-.135	-.142	-.089	.071	-.146	.078	1.17	.28	.011	.165	-.162	-.069	-.012	.064	-.005		6.25
6.26	1.35	.29	.003	-.136	-.148	-.092	.069	-.151	.074	1.17	.26	.012	.164	-.165	-.070	-.012	.062	-.003		6.26
6.27	1.35	.17	.002	-.136	-.152	-.097	.065	-.156	.072	1.17	.13	.012	.163	-.167	-.077	-.012	.053	-.004		6.27
6.28	1.35	.19	.049	-.135	-.155	-.101	.062	-.164	.067	1.17	-.12	.013	.164	-.168	-.078	-.012	.041	-.009		6.28
6.29	1.35	.13	.002	-.134	-.159	-.105	.058	-.173	.061	1.17	-.40	.012	.161	-.168	-.080	-.015	.026	-.022		6.29
6.30	1.35	-.27	.001	-.134	-.163	-.112	.055	-.183	.055	1.17	-.63	.012	.162	-.167	-.081	-.014	.012	-.034		6.30
6.31	1.35	-.28	.001	-.134	-.163	-.119	.050	-.190	.052	1.17	-.88	.011	.165	-.167	-.074	-.011	.005	-.040		6.31
6.32	1.35	-.26	.002	-.133	-.165	-.120	.047	-.195	.056	1.17	-1.04	.012	.166	-.164	-.073	-.012	-.001	-.044		6.32
6.33	1.35	-.29	.000	-.133	-.160	-.119	.045	-.196	.053	1.17	-1.17	.012	.164	-.162	-.074	-.012	-.005	-.045		6.33
6.34	1.35	-.18	-.001	-.133	-.155	-.117	.044	-.191	.051	1.17	-1.18	.013	.166	-.159	-.070	-.012	-.004	-.046		6.34
6.35	1.35	-.08	.001	-.132	-.153	-.110	.044	-.181	.053	1.17	-1.15	.012	.164	-.156	-.069	-.013	-.000	-.048		6.35
6.36	1.35	.01	-.001	-.133	-.144	-.106	.050	-.169	.053	1.17	-1.05	.012	.164	-.153	-.068	-.013	.003	-.048		6.36
6.37	1.35	.09	.001	-.133	-.142	-.098	.050	-.156	.058	1.17	-.82	.012	.164	-.150	-.064	-.015	.009	-.045		6.37
6.38	1.35	.23	-.002	-.132	-.139	-.092	.052	-.148	.061	1.17	-.64	.012	.163	-.149	-.064	-.016	.020	-.040		6.38
6.39	1.35	.31	-.001	-.131	-.137	-.090	.054	-.144	.059	1.17	-.44	.014	.163	-.149	-.062	-.016	.027	-.036		6.39
6.40	1.36	.28	.001	-.131	-.136	-.088	.057	-.149	.059	1.17	-.25	.013	.163	-.147	-.060	-.014	.025	-.034		6.40
6.41	1.36	.32	.001	-.132	-.131	-.091	.059	-.149	.066	1.17	-.19	.014	.163	-.149	-.060	-.011	.031	-.030		6.41
6.42	1.36	.29	-.001	-.132	-.134	-.094	.059	-.156	.061	1.17	.08	.013	.162	-.150	-.063	-.017	.035	-.028		6.42
6.43	1.36	.23	.000	-.132	-.136	-.100	.058	-.164	.063	1.17	-.11	.014	.162	-.152	-.064	-.017	.039	-.027		6.43
6.44	1.36	.15	.001	-.132	-.139	-.104	.056	-.173	.065	1.17	-.18	.014	.161	-.153	-.065	-.017	.038	-.028		6.44
6.45	1.36	.05	.002	-.133	-.144	-.106	.055	-.177	.062	1.17	-.28	.012	.161	-.152	-.067	-.015	.034	-.032		6.45
6.46	1.36	-.02	-.002	-.134	-.151	-.106	.053	-.181	.060	1.18	-.46	.015	.161	-.154	-.072	-.017	.027	-.035		6.46
6.47	1.36	-.05	-.002	-.134	-.152	-.109	.052	-.182	.060	1.18	-.61	.015	.162	-.157	-.075	-.018	.019	-.039		6.47
6.48	1.36	-.07	-.003	-.134	-.156	-.109	.051	-.184	.060	1.18	-.76	.014	.158	-.157	-.077	-.019	.014	-.042		6.48
6.49	1.36	-.07	-.004	-.134	-.157	-.109	.050	-.182	.061	1.18	-.85	.015	.162	-.157	-.080	-.019	.009	-.040		6.49
6.50	1.36	-.04	-.002	-.133	-.156	-.107	.049	-.180	.059	1.18	-.91	.015	.160	-.157	-.081	-.019	.006	-.042		6.50
6.51	1.36	.01	-.003	-.133	-.157	-.105	.049	-.176	.058	1.18	-.95	.012	.161	-.161	-.081	-.019	.005	-.042		6.51
6.52	1.36	.05	-.004	-.135	-.155	-.104	.050	-.171	.055	1.18	-.92	.014	.161	-.158	-.079	-.018	.004	-.042		6.52
6.53	1.36	.06	.003	-.134	-.153	-.098	.050	-.166	.055	1.18	-.88	.014	.159	-.158	-.080	-.018	.007	-.040		6.53
6.54	1.36	.09	-.002	-.135	-.151	-.097	.050	-.164	.055	1.18	-.75	.013	.159	-.158	-.076	-.019	.009	-.038		6.54
6.55	1.36	.12	-.006	-.134	-.151	-.097	.049	-.167	.055	1.18	-.65	.013	.160	-.156	-.076	-.017	.013	-.036		6.55
6.56	1.36	.12	.003	-.134	-.146	-.093	.050	-.161	.052	1.18	-.51	.014	.160	-.155	-.076	-.020	.017	-.035		6.56
6.57	1.37	.13	-.004	-.135	-.143	-.090	.051	-.157	.052	1.18	-.39	.014	.160	-.153	-.073	-.019	.024	-.032		6.57
6.58	1.37	.08	-.005	-.134	-.142	-.092	.050	-.162	.053	1.18	-.33	.014	.158	-.153	-.073	-.020	.027	-.033		6.58
6.59	1.37	.08	-.005	-.133	-.141	-.090	.051	-.161	.050	1.18	-.31	.015	.160	-.152	-.075	-.021	.030	-.031		6.59
6.60	1.37	.07	-.002	-.133	-.140	-.087	.052	-.161	.056	1.18	-.28	.014	.159	-.151	-.074	-.021	.032	-.032		6.60
6.61	1.37	.10	-.004	-.134	-.139	-.090	.051	-.162	.051	1.18	-.30	.013	.158	-.151	-.072	-.022	.021	-.037		6.61
6.62	1.37	.06	-.004	-.134	-.141	-.090	.049	-.164	.051	1.18	-.39	.015	.159	-.148	-.069	-.021	.030	-.037		6.62
6.63	1.37	.04	-.004	-.132	-.143	-.090	.053	-.164	.051	1.18	-.37	.015	.157	-.148	-.071	-.022	.027	-.038		6.63
6.64	1.37	.04	.004	-.131	-.142	-.092	.052	-.165	.049	1.18	-.13	.015	.157	-.147	-.072	-.023	.024	-.037		6.64
6.65	1.37	.04	-.007	-.134	-.145	-.089	.052	-.168	.050	1.18	-.78	.015	.157	-.146	-.071	-.025	.021	-.038		6.65
6.66	1.37	.07	-.005	-.133	-.147	-.093	.054	-.168	.051	1.19	-.74	.014	.153	-.147	-.072	-.027	.015	-.040		6.66
6.67	1.37	.08	-.007	-.134	-.144	-.094	.052	-.173	.049	1.19	-.79	.014	.154	-.146	-.072	-.027	.012	-.042		6.67
6.68	1.37	.06	-.007	-.134	-.145	-.095	.052	-.175	.051	1.19	-.80	.014	.154	-.148	-.075	-.027	.006	-.039		6.68
6.69	1.37	.07	-.007	-.133	-.146	-.094	.054	-.174	.050	1.19	-.80	.014	.152	-.149	-.077	-.026	.012	-.040		6.69
6.70	1.37	.12	-.006	-.133	-.148	-.099	.051	-.174	.051	1.19	-.75	.015	.157	-.150	-.078	-.027	.011	-.041		6.70
6.71	1.37	.10	-.007	-.133	-.148	-.100	.050	-.174	.052	1.19	-.73	.015	.154	-.152	-.078	-.026	.013	-.039		6.71
6.72	1.37	.11	-.009	-.133	-.146	-.097	.049	-.172	.052	1.19	-.66	.014	.154	-.151	-.079	-.026	.015	-.034		6.72
6.73	1.38	.10	-.008	-.134	-.144	-.096	.049	-.169	.051	1.19	-.61	.014	.154	-.154	-.082	-.027	.018	-.035		6.73
6.74	1.38	.10	-.007	-.132	-.147	-.096	.048	-.167	.051	1.19	-.53	.014	.155	-.153	-.082	-.025	.022	-.032		6.74
6.75	1.38	.10	-.009	-.133	-.145	-.095	.047	-.164	.051	1.19	-.47	.013	.153	-.154	-.082	-.025	.025	-.032		6.75
6.76	1.38	.10	-.010	-.133	-.143	-.095	.045	-.165	.050	1.19	-.47	.013	.153	-.154	-.082	-.025	.028	-.034		6.76
6.77	1.38	.11	-.009	-.133	-.144	-.099	.043	-.162	.049	1.19	-.42	.013	.154	-.154	-.081	-.028	.028	-.032		6.77
6.78	1.38	.11	-.012	-.132	-.143	-.094	.043	-.164	.051	1.19	-.42	.013	.153	-.153	-.081	-.028	.028	-.032		6.78
6.79	1.38	.09	-.011	-.131	-.143	-.095	.043	-.163	.050	1.19	-.48	.012	.153	-.153	-.081	-.026	.027	-.033		6.79
6.80	1.38	.07	-.009	-.132	-.142	-.089	.045	-.164	.048	1.19	-.52	.013	.152	-.149	-.080	-.025	.025	-.032		6.80
6.81	1.38	.08	-.011	-.133	-.143	-.089	.044	-.161	.048	1.19	-.58	.013	.153	-.152	-.079	-.027	.021	-.034		6.81
6.82	1.38	.07	-.010	-.132	-.142	-.089	.044	-.161	.047	1.19	-.61	.013	.153	-.148	-.078	-.027	.020	-.035		6.82
6.83	1.38	.09	.012	-.132	-.144	-.086	.047	-.162	.048	1.19	-.65	.								

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Table with columns for time (t, sec), Mach number (M), angle of attack (alpha, deg), and various pressure coefficients (Cp,1 to Cp,21) for Model III and Model IV. It contains multiple rows of numerical data organized by Mach number and angle of attack.

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III									Model IV										
t_{sec}	M	α_{deg}	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α_{deg}	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t_{sec}
7.00	1.38	2.27	-1.132	-1.165	-1.143	-1.117	-0.883	-1.188	-1.118	1.25	-5.1	-0.012	.133	-.138	-.110	-.057	.027	-.028	7.80
7.81	1.38	1.75	-1.132	-1.158	-1.165	-1.135	-0.091	-1.191	-1.138	1.25	-4.9	-0.013	.131	-.139	-.110	-.057	.027	-.035	7.81
7.82	1.38	1.39	-1.133	-1.153	-1.184	-1.148	-0.093	-.210	-1.149	1.25	-4.7	-0.012	.131	-.136	-.107	-.055	.029	-.036	7.82
7.83	1.38	1.08	-1.133	-1.149	-2.01	-1.160	-0.097	-.224	-1.170	1.25	-4.5	-0.013	.130	-.135	-.104	-.054	.030	-.035	7.83
7.84	1.38	1.04	-1.134	-1.147	-2.05	-1.164	-0.099	-.231	-1.176	1.25	-4.7	-0.014	.130	-.133	-.103	-.053	.029	-.036	7.84
7.85	1.38	1.22	-1.132	-1.148	-2.09	-1.165	-0.099	-.218	-1.181	1.25	-5.0	-0.013	.130	-.132	-.100	-.049	.030	-.038	7.85
7.86	1.38	1.53	-1.131	-1.150	-2.03	-1.162	-0.096	-.215	-1.179	1.25	-5.6	-0.013	.130	-.129	-.101	-.050	.027	-.037	7.86
7.87	1.38	1.80	-1.127	-1.155	-1.95	-1.154	-0.094	-.210	-1.170	1.25	-6.3	-0.014	.129	-.127	-.100	-.050	.026	-.037	7.87
7.88	1.38	2.25	-1.123	-1.160	-1.78	-1.144	-0.086	-.191	-1.160	1.25	-6.6	-0.013	.129	-.126	-.101	-.048	.023	-.041	7.88
7.89	1.38	2.62	-1.121	-1.166	-1.65	-1.129	-0.081	-.184	-1.144	1.25	-6.9	-0.013	.130	-.125	-.101	-.049	.021	-.044	7.89
7.90	1.37	2.98	-1.119	-1.171	-1.48	-1.125	-0.074	-.167	-1.119	1.25	-7.0	-0.013	.128	-.125	-.101	-.048	.021	-.045	7.90
7.91	1.37	3.11	-1.117	-1.175	-1.40	-1.113	-0.071	-.152	-1.104	1.25	-7.4	-0.014	.128	-.125	-.101	-.052	.021	-.045	7.91
7.92	1.37	3.13	-1.118	-1.177	-1.37	-1.106	-0.072	-.154	-1.096	1.25	-7.7	-0.013	.130	-.127	-.099	-.048	.021	-.045	7.92
7.93	1.37	3.04	-1.119	-1.178	-1.38	-1.109	-0.074	-.154	-1.095	1.25	-8.6	-0.013	.130	-.129	-.102	-.048	.021	-.045	7.93
7.94	1.37	2.83	-1.120	-1.176	-1.37	-1.110	-0.080	-.167	-1.097	1.25	-6.8	-0.013	.131	-.129	-.102	-.050	.022	-.043	7.94
7.95	1.37	2.56	-1.122	-1.170	-1.47	-1.120	-0.087	-.179	-1.109	1.26	-6.7	-0.010	.130	-.131	-.104	-.052	.022	-.040	7.95
7.96	1.37	2.25	-1.124	-1.166	-1.52	-1.121	-0.093	-.191	-1.128	1.26	-6.2	-0.009	.129	-.133	-.105	-.055	.025	-.039	7.96
7.97	1.37	1.96	-1.128	-1.161	-1.63	-1.137	-0.094	-.203	-1.141	1.26	-5.8	-0.007	.128	-.133	-.108	-.055	.026	-.036	7.97
7.98	1.37	1.76	-1.129	-1.157	-1.74	-1.142	-0.098	-.211	-1.153	1.26	-5.7	-0.005	.130	-.132	-.108	-.056	.027	-.035	7.98
7.99	1.37	1.62	-1.132	-1.155	-1.84	-1.148	-0.097	-.218	-1.161	1.26	-5.5	-0.005	.130	-.134	-.110	-.054	.028	-.035	7.99
8.00	1.37	1.54	-1.130	-1.151	-1.90	-1.149	-0.093	-.214	-1.166	1.26	-5.4	-0.005	.130	-.133	-.111	-.054	.028	-.035	8.00
8.01	1.37	1.60	-1.129	-1.149	-1.94	-1.147	-0.090	-.219	-1.170	1.26	-5.6	-0.004	.129	-.133	-.109	-.055	.027	-.035	8.01
8.02	1.36	1.75	-1.129	-1.150	-1.89	-1.146	-0.087	-.216	-1.168	1.26	-5.5	-0.003	.130	-.133	-.108	-.056	.026	-.035	8.02
8.03	1.36	1.92	-1.129	-1.153	-1.85	-1.141	-0.080	-.213	-1.166	1.26	-6.1	-0.003	.127	-.131	-.108	-.055	.025	-.035	8.03
8.04	1.36	2.15	-1.131	-1.155	-1.77	-1.135	-0.074	-.208	-1.157	1.26	-6.1	-0.003	.129	-.130	-.106	-.055	.026	-.035	8.04
8.05	1.36	2.38	-1.131	-1.159	-1.74	-1.129	-0.070	-.197	-1.153	1.26	-6.2	-0.005	.128	-.127	-.105	-.056	.025	-.036	8.05
8.06	1.36	2.65	-1.133	-1.164	-1.69	-1.123	-0.067	-.194	-1.148	1.26	-6.1	-0.007	.127	-.127	-.104	-.056	.024	-.037	8.06
8.07	1.36	2.62	-1.134	-1.166	-1.61	-1.119	-0.065	-.193	-1.146	1.26	-6.3	-0.007	.127	-.126	-.103	-.056	.023	-.037	8.07
8.08	1.36	2.62	-1.136	-1.165	-1.58	-1.123	-0.062	-.194	-1.129	1.26	-6.2	-0.009	.127	-.123	-.103	-.054	.024	-.036	8.08
8.09	1.36	2.64	-1.137	-1.166	-1.64	-1.128	-0.063	-.196	-1.126	1.26	-6.3	-0.012	.125	-.124	-.102	-.055	.023	-.040	8.09
8.10	1.36	2.67	-1.143	-1.166	-1.57	-1.135	-0.065	-.189	-1.134	1.26	-6.2	-0.012	.126	-.123	-.103	-.054	.023	-.040	8.10
8.11	1.36	2.49	-1.144	-1.164	-1.64	-1.134	-0.066	-.194	-1.139	1.27	-6.4	-0.015	.127	-.123	-.101	-.052	.023	-.040	8.11
8.12	1.36	2.34	-1.147	-1.161	-1.70	-1.143	-0.061	-.197	-1.144	1.27	-6.1	-0.015	.126	-.123	-.103	-.054	.025	-.042	8.12
8.13	1.36	2.19	-1.152	-1.159	-1.82	-1.144	-0.059	-.203	-1.152	1.27	-6.1	-0.016	.125	-.124	-.103	-.054	.024	-.041	8.13
8.14	1.36	1.93	-1.155	-1.156	-1.88	-1.145	-0.057	-.205	-1.159	1.27	-5.7	-0.015	.125	-.125	-.102	-.055	.025	-.039	8.14
8.15	1.35	1.83	-1.159	-1.154	-1.85	-1.146	-0.057	-.201	-1.165	1.27	-5.8	-0.016	.125	-.123	-.105	-.057	.026	-.039	8.15
8.16	1.35	1.76	-1.160	-1.153	-1.95	-1.147	-0.055	-.207	-1.165	1.27	-6.1	-0.015	.124	-.126	-.105	-.057	.025	-.037	8.16
8.17	1.35	1.70	-1.164	-1.151	-1.96	-1.148	-0.055	-.205	-1.171	1.27	-6.1	-0.017	.125	-.126	-.107	-.059	.026	-.038	8.17
8.18	1.35	1.78	-1.167	-1.150	-1.96	-1.143	-0.050	-.203	-1.168	1.27	-6.0	-0.015	.126	-.126	-.108	-.061	.025	-.039	8.18
8.19	1.35	1.82	-1.169	-1.151	-1.89	-1.138	-0.047	-.203	-1.165	1.27	-6.3	-0.016	.124	-.128	-.110	-.061	.024	-.039	8.19
8.20	1.35	1.78	-1.166	-1.151	-1.99	-1.126	-0.023	-.205	-1.155	1.27	-6.0	-0.016	.124	-.127	-.111	-.061	.025	-.039	8.20
8.21	1.35	1.80	-1.169	-1.154	-1.99	-1.125	-0.029	-.208	-1.150	1.27	-6.1	-0.015	.123	-.127	-.112	-.061	.024	-.038	8.21
8.22	1.35	1.99	-1.173	-1.157	-1.95	-1.120	-0.020	-.205	-1.137	1.27	-6.2	-0.014	.124	-.127	-.112	-.061	.024	-.038	8.22
8.23	1.35	2.06	-1.176	-1.158	-1.92	-1.116	-0.016	-.204	-1.131	1.27	-6.1	-0.016	.122	-.127	-.111	-.062	.024	-.038	8.23
8.24	1.35	2.10	-1.176	-1.159	-1.91	-1.116	-0.013	-.206	-1.128	1.27	-6.3	-0.015	.122	-.125	-.110	-.061	.024	-.039	8.24
8.25	1.35	2.07	-1.179	-1.159	-1.90	-1.111	-0.009	-.211	-1.125	1.27	-6.3	-0.017	.122	-.125	-.110	-.061	.024	-.039	8.25
8.26	1.35	2.02	-1.179	-1.160	-1.89	-1.114	-0.008	-.209	-1.123	1.27	-6.0	-0.017	.122	-.125	-.109	-.062	.024	-.039	8.26
8.27	1.34	1.99	-1.178	-1.158	-1.88	-1.113	-0.009	-.209	-1.123	1.27	-5.7	-0.017	.121	-.123	-.107	-.061	.023	-.040	8.27
8.28	1.34	1.94	-1.181	-1.158	-1.90	-1.112	-0.010	-.210	-1.121	1.28	-5.7	-0.017	.121	-.121	-.107	-.061	.023	-.040	8.28
8.29	1.34	1.87	-1.184	-1.156	-1.88	-1.116	.000	-.208	-1.120	1.28	-5.7	-0.017	.120	-.120	-.107	-.061	.024	-.040	8.29
8.30	1.34	1.74	-1.183	-1.155	-1.98	-1.113	-0.009	-.210	-1.126	1.28	-5.8	-0.018	.119	-.120	-.105	-.060	.024	-.040	8.30
8.31	1.34	1.71	-1.185	-1.156	-2.01	-1.117	-0.007	-.213	-1.128	1.28	-6.2	-0.021	.123	-.123	-.102	-.058	.024	-.041	8.31
8.32	1.34	1.66	-1.184	-1.154	-2.08	-1.117	-0.003	-.211	-1.125	1.28	-6.1	-0.022	.123	-.120	-.103	-.059	.024	-.040	8.32
8.33	1.34	1.63	-1.187	-1.154	-2.02	-1.122	-0.007	-.214	-1.130	1.28	-5.9	-0.019	.123	-.120	-.102	-.057	.024	-.041	8.33
8.34	1.34	1.62	-1.186	-1.155	-2.01	-1.119	-0.007	-.215	-1.127	1.28	-6.0	-0.021	.122	-.120	-.103	-.059	.024	-.041	8.34
8.35	1.34	1.63	-1.186	-1.154	-2.02	-1.119	-0.007	-.212	-1.127	1.28	-6.4	-0.023	.122	-.120	-.105	-.060	.024	-.040	8.35
8.36	1.34	1.67	-1.188	-1.155	-1.98	-1.115	-0.005	-.214	-1.126	1.28	-6.4	-0.019	.121	-.122	-.105	-.060	.024	-.041	8.36
8.37	1.34	1.73	-1.185	-1.154	-1.91	-1.116	.000	-.210	-1.119	1.28	-6.3	-0.022	.121	-.121	-.106	-.061	.024	-.043	8.37
8.38	1.34	1.78	-1.185	-1.156	-1.99	-1.111	-0.003	-.211	-1.114	1.28	-6.3	-0.022	.119	-.122	-.108	-.061	.024	-.043	8.38
8.39	1.34	1.82	-1.186	-1.156	-1.96	-1.111	.003	-.208	-1.112	1.28	-6.5	-0.021	.119	-.124	-.109	-.063	.023	-.043	8.39
8.40	1.33	1.62	-1.187	-1.155	-2.07	-1.091	.014	-.219	-1.111	1.28	-6.5	-0.021	.120	-.121	-.110	-.064	.024	-.043	8.40
8.41	1.33	1.66	-1.189	-1.156	-2.12	-1.094	.012	-.222	-1.111	1.28	-6								

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III									Model IV										
t _{sec}	M	α_{deg}	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α_{deg}	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t _{sec}
8.60	1.32	1.68	-.184	-.154	-.200	-.106	+.008	-.222	-.099	1.29	-.59	-.026	+.114	-.120	-.110	-.065	+.023	-.044	8.60
8.61	1.32	1.85	-.187	-.156	-.204	-.109	+.005	-.224	-.101	1.29	-.61	-.027	+.113	-.120	-.108	-.064	+.024	-.044	8.61
8.62	1.32	1.61	-.186	-.155	-.202	-.108	+.006	-.220	-.103	1.29	-.60	-.026	+.112	-.120	-.109	-.066	+.024	-.044	8.62
8.63	1.32	1.81	-.186	-.156	-.191	-.108	+.003	-.223	-.097	1.29	-.62	-.026	+.113	-.122	-.109	-.067	+.024	-.043	8.63
8.64	1.32	1.60	-.185	-.157	-.199	-.110	+.007	-.226	-.097	1.29	-.60	-.027	+.112	-.121	-.109	-.066	+.024	-.043	8.64
8.65	1.32	1.57	-.185	-.156	-.200	-.107	+.008	-.224	-.093	1.29	-.58	-.027	+.112	-.119	-.110	-.066	+.025	-.043	8.65
8.66	1.32	1.60	-.185	-.155	-.205	-.104	+.005	-.219	-.093	1.29	-.57	-.028	+.112	-.120	-.109	-.068	+.025	-.043	8.66
8.67	1.32	1.64	-.185	-.157	-.200	-.106	+.007	-.219	-.094	1.29	-.58	-.029	+.112	-.121	-.109	-.068	+.024	-.043	8.67
8.68	1.32	1.63	-.186	-.157	-.202	-.107	+.006	-.225	-.093	1.29	-.60	-.027	+.114	-.118	-.108	-.066	+.024	-.043	8.68
8.69	1.32	1.73	-.186	-.157	-.199	-.110	+.007	-.223	-.092	1.29	-.57	-.027	+.111	-.119	-.109	-.067	+.024	-.043	8.69
8.70	1.31	1.74	-.185	-.156	-.205	-.110	+.006	-.221	-.092	1.29	-.57	-.027	+.111	-.119	-.109	-.067	+.024	-.042	8.70
8.71	1.31	1.73	-.186	-.156	-.204	-.108	+.005	-.222	-.088	1.29	-.62	-.028	+.112	-.121	-.108	-.065	+.024	-.046	8.71
8.72	1.31	1.69	-.186	-.155	-.207	-.111	+.006	-.224	-.088	1.29	-.58	-.027	+.113	-.120	-.107	-.066	+.023	-.046	8.72
8.73	1.31	1.66	-.185	-.157	-.201	-.110	+.006	-.222	-.088	1.30	-.58	-.026	+.112	-.119	-.106	-.067	+.025	-.047	8.73
8.74	1.31	1.67	-.187	-.157	-.200	-.108	+.009	-.221	-.088	1.30	-.61	-.025	+.107	-.113	-.101	-.063	+.023	-.045	8.74
8.75	1.31	1.65	-.184	-.158	-.208	-.105	+.006	-.224	-.088	1.30	-.58	-.025	+.112	-.119	-.109	-.067	+.024	-.048	8.75
8.76	1.31	1.65	-.185	-.156	-.201	-.109	+.007	-.226	-.088	1.30	-.60	-.024	+.113	-.119	-.105	-.069	+.024	-.048	8.76
8.77	1.31	1.62	-.187	-.155	-.205	-.111	+.006	-.222	-.085	1.30	-.61	-.024	+.114	-.120	-.106	-.067	+.024	-.048	8.77
8.78	1.31	1.50	-.186	-.154	-.200	-.107	+.011	-.224	-.085	1.30	-.62	-.024	+.112	-.119	-.106	-.068	+.024	-.048	8.78
8.79	1.31	1.29	-.184	-.153	-.186	-.088	+.020	-.228	-.085	1.30	-.60	-.024	+.111	-.119	-.107	-.068	+.024	-.049	8.79
8.80	1.31	1.01	-.187	-.151	-.004	-.093	+.014	-.371	-.090	1.30	-.58	-.022	+.113	-.118	-.106	-.069	+.024	-.049	8.80
8.81	1.31	.93	-.195	-.148	-.062	-.092	+.017	-.376	-.097	1.30	-.62	-.021	+.114	-.119	-.107	-.069	+.025	-.049	8.81
8.82	1.31	-11	-.196	-.144	-.172	-.101	+.018	-.381	-.111	1.30	-.61	-.019	+.114	-.119	-.107	-.070	+.024	-.049	8.82
8.83	1.31	-.28	-.187	-.143	-.245	-.139	+.032	-.438	-.147	1.30	-.60	-.018	+.116	-.117	-.107	-.071	+.026	-.049	8.83
8.84	1.31	-.34	-.185	-.141	-.261	-.157	+.044	-.466	-.163	1.30	-.58	-.015	+.115	-.120	-.108	-.070	+.024	-.049	8.84
8.85	1.31	-.02	-.185	-.142	-.261	-.153	+.040	-.472	-.158	1.30	-.59	-.016	+.115	-.119	-.109	-.069	+.024	-.049	8.85
8.86	1.31	.43	-.186	-.144	-.246	-.143	+.025	-.452	-.137	1.30	-.60	-.015	+.113	-.119	-.109	-.070	+.024	-.049	8.86
8.87	1.30	.95	-.185	-.147	-.226	-.133	+.009	-.374	-.113	1.30	-.56	-.013	+.115	-.118	-.108	-.071	+.024	-.049	8.87
8.88	1.30	1.68	-.186	-.154	-.208	-.113	+.006	-.289	-.091	1.30	-.58	-.013	+.115	-.119	-.108	-.070	+.024	-.050	8.88
8.89	1.30	2.27	-.185	-.161	-.192	-.099	+.016	-.247	-.071	1.30	-.56	-.012	+.116	-.120	-.108	-.070	+.024	-.050	8.89
8.90	1.30	2.67	-.188	-.168	-.176	-.081	+.028	-.207	-.052	1.30	-.55	-.012	+.119	-.118	-.109	-.071	+.024	-.050	8.90
8.91	1.30	2.87	-.186	-.172	-.174	-.071	+.033	-.192	-.038	1.30	-.57	-.009	+.120	-.118	-.108	-.069	+.026	-.050	8.91
8.92	1.30	3.02	-.185	-.172	-.160	-.072	+.033	-.183	-.030	1.30	-.53	-.011	+.123	-.118	-.108	-.070	+.025	-.051	8.92
8.93	1.30	2.94	-.187	-.174	-.150	-.075	+.037	-.177	-.031	1.30	-.53	-.015	+.124	-.118	-.107	-.072	+.024	-.052	8.93
8.94	1.30	2.69	-.188	-.170	-.161	-.077	+.029	-.188	-.033	1.30	-.54	-.020	+.121	-.117	-.107	-.072	+.025	-.053	8.94
8.95	1.30	2.33	-.185	-.166	-.178	-.086	+.024	-.204	-.049	1.31	-.55	-.028	+.109	-.116	-.108	-.070	+.025	-.052	8.95
8.96	1.30	1.86	-.187	-.161	-.180	-.098	+.014	-.220	-.061	1.31	-.52	-.037	+.131	-.116	-.108	-.070	+.024	-.052	8.96
8.97	1.30	1.50	-.187	-.158	-.210	-.108	+.004	-.238	-.075	1.31	-.51	-.045	+.095	-.116	-.108	-.075	+.024	-.052	8.97
8.98	1.30	1.15	-.187	-.153	-.213	-.122	+.004	-.248	-.086	1.31	-.52	-.054	+.089	-.114	-.108	-.077	+.024	-.053	8.98
8.99	1.30	.82	-.196	-.151	-.226	-.134	+.009	-.277	-.096	1.31	-.53	-.062	+.087	-.115	-.108	-.077	+.024	-.053	8.99
9.00	1.30	.65	-.184	-.148	-.238	-.133	+.013	-.309	-.104	1.31	-.56	-.065	+.084	-.115	-.109	-.081	+.024	-.053	9.00
9.01	1.30	.61	-.184	-.144	-.251	-.135	+.013	-.310	-.100	1.31	-.62	-.075	+.085	-.117	-.106	-.076	+.022	-.047	9.01
9.02	1.30	.69	-.183	-.146	-.245	-.134	+.008	-.302	-.100	1.31	-.62	-.087	+.087	-.117	-.107	-.080	+.022	-.047	9.02
9.03	1.30	.85	-.185	-.147	-.241	-.128	+.006	-.277	-.100	1.31	-.61	-.104	+.088	-.117	-.107	-.078	+.022	-.047	9.03
9.04	1.29	1.21	-.134	-.150	-.224	-.124	+.002	-.250	-.087	1.31	-.59	-.123	+.070	-.118	-.107	-.083	+.021	-.047	9.04
9.05	1.29	1.46	-.185	-.152	-.222	-.115	+.007	-.236	-.076	1.31	-.59	-.138	+.042	-.116	-.108	-.083	+.022	-.047	9.05
9.06	1.29	1.83	-.183	-.155	-.206	-.099	+.017	-.224	-.067	1.31	-.60	-.150	+.046	-.116	-.109	-.082	+.021	-.047	9.06
9.07	1.29	2.03	-.186	-.160	-.197	-.095	+.017	-.221	-.059	1.31	-.55	-.107	+.066	-.116	-.108	-.083	+.021	-.047	9.07
9.08	1.29	2.17	-.192	-.161	-.187	-.089	+.018	-.218	-.052	1.31	-.63	-.045	+.085	-.117	-.107	-.082	+.021	-.047	9.08
9.09	1.29	2.17	-.185	-.163	-.182	-.088	+.020	-.213	-.046	1.31	-.75	-.004	+.085	-.116	-.105	-.074	+.019	-.052	9.09
9.10	1.29	2.19	-.184	-.161	-.176	-.088	+.019	-.224	-.044	1.31	-.83	-.011	+.059	-.116	-.103	-.054	+.017	-.054	9.10
9.11	1.29	2.94	-.180	-.161	-.185	-.094	+.017	-.223	-.046	1.31	-.93	-.045	+.024	-.114	-.103	-.065	+.014	-.058	9.11
9.12	1.29	1.91	-.185	-.158	-.182	-.092	+.013	-.228	-.044	1.31	-.91	-.046	+.017	-.114	-.105	-.062	+.009	-.058	9.12
9.13	1.29	1.69	-.183	-.157	-.193	-.100	+.012	-.232	-.047	1.31	-.95	-.052	+.041	-.113	-.104	-.091	+.007	-.059	9.13
9.14	1.29	1.48	-.183	-.156	-.202	-.100	+.005	-.235	-.055	1.31	-.84	-.085	+.062	-.113	-.105	-.098	+.006	-.054	9.14
9.15	1.29	1.28	-.184	-.153	-.208	-.110	+.003	-.242	-.066	1.31	-.68	-.124	+.052	-.114	-.107	-.105	+.008	-.050	9.15
9.16	1.29	1.16	-.183	-.153	-.212	-.111	+.001	-.245	-.071	1.31	-.46	-.155	+.008	-.116	-.109	-.112	+.014	-.046	9.16
9.17	1.29	1.07	-.183	-.151	-.222	-.118	+.001	-.235	-.075	1.31	-.19	-.169	+.088	-.117	-.111	-.120	+.020	-.038	9.17
9.18	1.29	1.10	-.184	-.151	-.223	-.115	+.001	-.241	-.072	1.31	-.02	-.173	+.104	-.118	-.113	-.126	+.030	-.031	9.18
9.19	1.29	1.15	-.183	-.150	-.227	-.112	+.001	-.250	-.076	1.31	-.19	-.169	+.103	-.121	-.115	-.131	+.037	-.026	9.19
9.20	1.29	1.27	-.184	-.148	-.225	-.110	+.014	-.244	-.071	1.30	-.31	-.168	+.101	-.122	-.117	-.134	+.045	-.020	9.20
9.21	1.28	1.39	-.182	-.152	-.223	-.109	+.011	-.239	-.070	1.30	-.28	-.170	+.102	-.126	-.117	-.130	+.052	-.018	9.21
9.22	1.28	1.58	-.180	-.152	-.224	-.096	+.016	-.230	-.068	1.30	-.27	-.168	+.101	-.128	-.118	-.135	+.059	-.018	9.22
9.23	1.28	1.61	-.182	-.154	-.213	-.095	+.017	-.230	-.066	1.30	-.14	-.167	+.097	-.126	-.119	-.133	+.055	-.018	9.23
9.24	1.28	1.81	-.183	-.157	-.209	-.101	+.020	-.229											

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
$\frac{t}{s}$	M	α deg	$C_{P,1}$	$C_{P,4}$	$C_{P,10}$	$C_{P,11}$	$C_{P,12}$	$C_{P,13}$	$C_{P,14}$	M	α deg	$C_{P,1}$	$C_{P,4}$	$C_{P,7}$	$C_{P,8}$	$C_{P,9}$	$C_{P,20}$	$C_{P,21}$	$\frac{t}{s}$
9.40	1.27	1.59	-1.78	-1.54	-2.18	-.091	.014	-.227	-.067	1.29	-1.0	-1.43	.073	-.118	-.113	-.125	.044	-.026	9.40
9.41	1.27	1.62	-1.84	-1.53	-2.10	-.090	.014	-.235	-.068	1.29	-2.4	-1.51	.076	-.127	-.118	-.131	.044	-.034	9.41
9.42	1.27	1.71	-1.86	-1.56	-2.18	-.088	.017	-.235	-.067	1.29	-3.1	-1.51	.075	-.126	-.118	-.131	.041	-.034	9.42
9.43	1.27	1.67	-1.87	-1.56	-2.20	-.088	.014	-.229	-.067	1.29	-4.1	-1.51	.076	-.125	-.118	-.131	.037	-.034	9.43
9.44	1.27	1.73	-1.87	-1.57	-2.13	-.088	.014	-.239	-.067	1.29	-4.6	-1.51	.075	-.125	-.118	-.130	.033	-.042	9.44
9.45	1.27	1.59	-1.85	-1.56	-2.13	-.092	.014	-.231	-.068	1.29	-4.7	-1.44	.071	-.117	-.111	-.126	.029	-.040	9.45
9.46	1.27	1.51	-1.86	-1.54	-2.14	-.092	.017	-.237	-.070	1.29	-4.8	-1.52	.074	-.124	-.117	-.131	.030	-.042	9.46
9.47	1.27	1.44	-1.87	-1.54	-2.26	-.092	.011	-.231	-.071	1.29	-4.3	-1.52	.075	-.122	-.113	-.130	.031	-.041	9.47
9.48	1.27	1.31	-1.85	-1.52	-2.19	-.094	.008	-.232	-.074	1.29	-3.7	-1.52	.075	-.122	-.115	-.130	.032	-.040	9.48
9.49	1.27	1.24	-1.85	-1.48	-2.26	-.095	.006	-.242	-.074	1.29	-3.1	-1.53	.075	-.122	-.113	-.130	.033	-.037	9.49
9.50	1.27	1.16	-1.86	-1.44	-2.34	-.094	.006	-.251	-.068	1.29	-2.0	-1.51	.076	-.121	-.113	-.128	.038	-.035	9.50
9.51	1.27	1.08	-1.86	-1.43	-2.40	-.095	.027	-.250	-.067	1.28	-1.4	-1.50	.073	-.121	-.113	-.129	.040	-.034	9.51
9.52	1.27	1.10	-1.84	-1.41	-2.40	-.088	.007	-.241	-.068	1.28	-0.7	-1.48	.071	-.120	-.114	-.127	.043	-.032	9.52
9.53	1.27	1.16	-1.85	-1.38	-2.33	-.094	.005	-.248	-.068	1.28	-0.9	-1.43	.065	-.120	-.113	-.125	.046	-.030	9.53
9.54	1.26	1.20	-1.86	-1.40	-2.37	-.092	.004	-.245	-.068	1.28	-0.8	-1.38	.062	-.122	-.113	-.125	.045	-.030	9.54
9.55	1.26	1.23	-1.85	-1.40	-2.23	-.089	.011	-.243	-.063	1.28	-1.2	-1.37	.060	-.121	-.114	-.125	.044	-.031	9.55
9.56	1.26	1.32	-1.88	-1.40	-2.28	-.090	.021	-.235	-.064	1.28	-2.2	-1.39	.058	-.125	-.115	-.122	.044	-.031	9.56
9.57	1.26	1.46	-1.86	-1.40	-2.25	-.084	.011	-.241	-.062	1.28	-3.2	-1.45	.060	-.126	-.117	-.122	.041	-.032	9.57
9.58	1.26	1.51	-1.86	-1.44	-2.30	-.084	.005	-.240	-.062	1.28	-4.0	-1.53	.066	-.131	-.123	-.121	.034	-.042	9.58
9.59	1.26	1.54	-1.85	-1.46	-2.24	-.081	.015	-.237	-.060	1.28	-4.6	-1.60	.071	-.136	-.125	-.122	.022	-.057	9.59
9.60	1.26	1.57	-1.82	-1.44	-2.32	-.081	.010	-.230	-.057	1.28	-4.6	-1.67	.078	-.135	-.122	-.120	.007	-.073	9.60
9.61	1.26	1.62	-1.80	-1.46	-2.19	-.091	.020	-.226	-.057	1.28	-4.8	-1.76	.086	-.134	-.108	-.119	-.008	-.086	9.61
9.62	1.26	1.54	-1.81	-1.46	-2.03	-.087	.019	-.235	-.057	1.28	-4.8	-1.81	.090	-.116	-.103	-.119	-.024	-.085	9.62
9.63	1.26	1.55	-1.81	-1.45	-2.02	-.094	.012	-.239	-.062	1.28	-4.5	-1.84	.098	-.110	-.101	-.121	.023	-.081	9.63
9.64	1.26	1.45	-1.81	-1.44	-2.25	-.098	.031	-.243	-.067	1.28	-4.1	-1.86	.102	-.115	-.104	-.123	.014	-.072	9.64
9.65	1.26	1.41	-1.80	-1.46	-2.23	-.094	.010	-.245	-.070	1.28	-3.8	-1.85	.106	-.115	-.107	-.124	.002	-.059	9.65
9.66	1.26	1.31	-1.81	-1.43	-2.29	-.092	.006	-.248	-.068	1.27	-3.1	-1.89	.110	-.122	-.114	-.126	.023	-.043	9.66
9.67	1.26	1.24	-1.82	-1.41	-2.27	-.099	.005	-.248	-.074	1.27	-2.6	-1.87	.114	-.123	-.117	-.130	.044	-.024	9.67
9.68	1.26	1.17	-1.81	-1.41	-2.35	-.092	.002	-.249	-.078	1.27	-2.6	-1.87	.118	-.131	-.123	-.131	.061	-.014	9.68
9.69	1.26	1.15	-1.81	-1.38	-2.33	-.091	.003	-.251	-.072	1.27	-2.8	-1.89	.120	-.134	-.126	-.133	.077	-.006	9.69
9.70	1.26	1.21	-1.82	-1.37	-2.38	-.097	.006	-.244	-.076	1.27	-2.7	-1.90	.123	-.136	-.130	-.137	.083	-.003	9.70
9.71	1.25	1.19	-1.82	-1.37	-2.38	-.094	.004	-.237	-.072	1.27	-2.6	-1.93	.125	-.138	-.132	-.139	.083	-.005	9.71
9.72	1.25	1.31	-1.81	-1.35	-2.26	-.088	.006	-.243	-.070	1.27	-2.0	-1.98	.128	-.137	-.134	-.144	.080	-.011	9.72
9.73	1.25	1.41	-1.81	-1.36	-2.28	-.088	.007	-.253	-.069	1.27	-1.7	-1.99	.132	-.136	-.132	-.143	.070	-.019	9.73
9.74	1.25	1.43	-1.81	-1.38	-2.34	-.092	.005	-.241	-.059	1.27	-2.3	-1.99	.134	-.136	-.131	-.145	.054	-.025	9.74
9.75	1.25	1.53	-1.81	-1.35	-2.27	-.091	.009	-.245	-.061	1.27	-2.4	-1.99	.133	-.130	-.125	-.144	.044	-.033	9.75
9.76	1.25	1.56	-1.81	-1.37	-2.25	-.087	.010	-.250	-.061	1.27	-2.8	-1.98	.136	-.128	-.121	-.143	.028	-.047	9.76
9.77	1.25	1.55	-1.81	-1.36	-2.27	-.082	.005	-.243	-.061	1.27	-2.0	-2.01	.136	-.122	-.116	-.140	.018	-.052	9.77
9.78	1.25	1.52	-1.81	-1.40	-2.14	-.085	.004	-.239	-.060	1.27	-1.0	-2.01	.135	-.120	-.111	-.134	.008	-.060	9.78
9.79	1.25	1.57	-1.80	-1.40	-2.17	-.083	.006	-.255	-.063	1.27	-1.0	-2.00	.136	-.116	-.107	-.130	.007	-.061	9.79
9.80	1.25	1.44	-1.83	-1.41	-2.21	-.082	.006	-.239	-.069	1.27	-0.8	-2.01	.135	-.114	-.105	-.128	.008	-.061	9.80
9.81	1.25	1.39	-1.81	-1.39	-2.23	-.081	.008	-.242	-.066	1.27	-1.7	-2.02	.138	-.116	-.105	-.125	.017	-.052	9.81
9.82	1.25	1.38	-1.83	-1.39	-2.16	-.085	.011	-.243	-.069	1.26	-2.1	-2.02	.139	-.117	-.107	-.123	.026	-.044	9.82
9.83	1.25	1.32	-1.83	-1.37	-2.24	-.082	.003	-.239	-.066	1.26	-3.0	-2.01	.139	-.119	-.108	-.121	.038	-.032	9.83
9.84	1.25	1.23	-1.83	-1.36	-2.30	-.085	.003	-.248	-.071	1.26	-3.9	-2.01	.141	-.121	-.112	-.119	.048	-.023	9.84
9.85	1.25	1.14	-1.83	-1.34	-2.39	-.077	.009	-.250	-.069	1.26	-4.8	-2.03	.140	-.124	-.116	-.124	.058	-.019	9.85
9.86	1.25	1.21	-1.84	-1.35	-2.30	-.076	.008	-.256	-.071	1.26	-3.9	-2.01	.142	-.128	-.118	-.127	.064	-.018	9.86
9.87	1.25	1.22	-1.82	-1.36	-2.32	-.083	.013	-.248	-.072	1.26	-3.6	-2.02	.142	-.130	-.120	-.126	.066	-.017	9.87
9.88	1.25	1.25	-1.83	-1.37	-2.22	-.077	.002	-.240	-.076	1.26	-3.2	-2.02	.142	-.133	-.124	-.130	.062	-.017	9.88
9.89	1.25	1.28	-1.83	-1.33	-2.28	-.085	.008	-.235	-.072	1.26	-4.3	-2.01	.144	-.134	-.126	-.138	.058	-.015	9.89
9.90	1.24	1.29	-1.83	-1.35	-2.22	-.092	.005	-.240	-.072	1.26	-4.9	-2.02	.144	-.135	-.128	-.140	.050	-.025	9.90
9.91	1.24	1.29	-1.83	-1.33	-2.23	-.084	.007	-.250	-.073	1.26	-5.0	-2.02	.145	-.135	-.129	-.145	.043	-.037	9.91
9.92	1.24	1.37	-1.84	-1.34	-2.33	-.083	.004	-.240	-.073	1.26	-5.7	-2.03	.144	-.135	-.127	-.142	.035	-.040	9.92
9.93	1.24	1.43	-1.83	-1.37	-2.32	-.080	.002	-.234	-.073	1.26	-6.7	-2.02	.146	-.133	-.126	-.142	.028	-.045	9.93
9.94	1.24	1.40	-1.84	-1.39	-2.26	-.078	.005	-.238	-.070	1.26	-7.3	-1.99	.146	-.131	-.124	-.140	.024	-.047	9.94
9.95	1.24	1.42	-1.83	-1.39	-2.23	-.086	.008	-.245	-.066	1.26	-7.2	-2.01	.145	-.130	-.122	-.140	.021	-.048	9.95
9.96	1.24	1.37	-1.83	-1.40	-2.29	-.081	.002	-.237	-.071	1.26	-6.9	-2.01	.147	-.129	-.120	-.137	.022	-.048	9.96
9.97	1.24	1.39	-1.81	-1.39	-2.21	-.079	.010	-.237	-.065	1.26	-5.7	-2.00	.146	-.127	-.120	-.136	.023	-.045	9.97
9.98	1.24	1.30	-1.84	-1.38	-2.26	-.093	.002	-.236	-.070	1.25	-3.9	-2.01	.146	-.126	-.118	-.134	.028	-.041	9.98
9.99	1.24	1.27	-1.84	-1.38	-2.21	-.082	.007	-.233	-.064	1.25	-2.0	-1.95	.143	-.121	-.113	-.127	.034	-.037	9.99
10.00	1.24	1.33	-1.81	-1.35	-2.25	-.085	.003	-.244	-.067	1.25	-0.4	-2.01	.148	-.124	-.115	-.129	.041	-.035	10.00
10.01	1.24	1.42	-1.81	-1.36	-2.06	-.090	-.001	-.214	-.067	1.25	-1.6	-2.02	.149	-.124	-.114	-.125	.047	-.030	10.01
10.02	1.24	1.45	-1.83	-1.38	-2.04	-.094	-.006	-.229	-.065	1.25	-2.6	-2.02	.149	-.126	-.115	-.125	.052	-.027	10.02
10.03	1.24	1.42	-1.82	-1.41	-2.22	-.096	-.007	-.233	-.065	1.25	-3.3	-2.01	.150	-.125	-.115	-.123	.055	-.029	10.03
10.04	1.24	1.43	-1.82	-1.46	-2.01	-.093	-.002	-.221	-.070	1.25	-4.0	-2.02	.151	-.126	-.116	-.122	.056	-.029	10.04
10.05																			

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III							
t _{sec}	M	α, deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}
10.20	1.23	1.38	-0.179	-0.155	-0.191	-0.093	.000
10.21	1.23	1.36	-0.180	-0.153	-0.200	-0.097	.000
10.22	1.23	1.33	-0.182	-0.155	-0.200	-0.092	-0.002
10.23	1.23	1.34	-0.180	-0.154	-0.201	-0.082	-0.002
10.24	1.23	1.33	-0.179	-0.155	-0.202	-0.084	-0.003
10.25	1.23	1.35	-0.180	-0.155	-0.197	-0.089	.000
10.26	1.23	1.35	-0.179	-0.155	-0.197	-0.087	.003
10.27	1.23	1.32	-0.178	-0.156	-0.205	-0.086	-0.004
10.28	1.23	1.31	-0.179	-0.157	-0.199	-0.090	.000
10.29	1.23	1.37	-0.179	-0.157	-0.207	-0.088	-0.002
10.30	1.22	1.34	-0.180	-0.155	-0.198	-0.087	-0.003
10.31	1.22	1.40	-0.180	-0.157	-0.202	-0.083	-0.002
10.32	1.22	1.38	-0.178	-0.156	-0.203	-0.083	-0.006
10.33	1.22	1.38	-0.178	-0.158	-0.194	-0.083	-0.006
10.34	1.22	1.37	-0.178	-0.155	-0.204	-0.085	-0.002
10.35	1.22	1.56	-0.180	-0.155	-0.196	-0.084	-0.002
10.36	1.22	1.79	-0.178	-0.158	-0.201	-0.065	.017
10.37	1.22	2.03	-0.177	-0.159	-0.185	-0.068	.013
10.38	1.22	2.43	-0.171	-0.163	-0.174	-0.051	.017
10.39	1.22	2.79	-0.170	-0.164	-0.164	-0.050	.022
10.40	1.22	2.86	-0.177	-0.172	-0.147	-0.043	.029
10.41	1.22	2.90	-0.177	-0.174	-0.156	-0.050	.045
10.42	1.22	2.71	-0.178	-0.176	-0.157	-0.054	.028
10.43	1.22	2.38	-0.177	-0.174	-0.158	-0.055	.024
10.44	1.22	2.01	-0.178	-0.169	-0.168	-0.060	.015
10.45	1.22	1.44	-0.180	-0.166	-0.177	-0.074	.009
10.46	1.22	1.15	-0.179	-0.160	-0.194	-0.084	.003
10.47	1.22	.80	-0.177	-0.157	-0.201	-0.085	-0.010
10.48	1.22	.49	-0.180	-0.154	-0.222	-0.105	-0.020
10.49	1.21	.31	-0.180	-0.150	-0.251	-0.094	-0.021
10.50	1.21	.27	-0.180	-0.155	-0.230	-0.099	-0.013
10.51	1.21	.32	-0.179	-0.148	-0.239	-0.094	-0.018
10.52	1.21	.56	-0.181	-0.151	-0.235	-0.083	-0.009
10.53	1.21	.82	-0.180	-0.154	-0.226	-0.086	-0.008
10.54	1.21	1.06	-0.179	-0.153	-0.229	-0.073	-0.003
10.55	1.21	1.41	-0.180	-0.157	-0.194	-0.080	.034
10.56	1.21	1.73	-0.179	-0.163	-0.187	-0.073	.010
10.57	1.21	1.87	-0.178	-0.162	-0.174	-0.071	.035
10.58	1.21	2.06	-0.178	-0.166	-0.162	-0.065	.018
10.59	1.21	2.09	-0.179	-0.167	-0.174	-0.070	.027
10.60	1.21	2.09	-0.178	-0.168	-0.178	-0.079	.009
10.61	1.21	1.99	-0.171	-0.163	-0.177	-0.077	.003
10.62	1.21	1.78	-0.174	-0.159	-0.182	-0.072	.001
10.63	1.21	1.54	-0.173	-0.161	-0.178	-0.086	.003
10.64	1.21	1.19	-0.174	-0.158	-0.186	-0.087	.007
10.65	1.21	1.07	-0.173	-0.155	-0.184	-0.090	.005
10.66	1.21	.95	-0.176	-0.152	-0.195	-0.098	.013
10.67	1.21	.87	-0.174	-0.150	-0.204	-0.094	.008
10.68	1.21	.81	-0.175	-0.147	-0.202	-0.094	.010
10.69	1.20	.77	-0.175	-0.148	-0.204	-0.094	-0.016
10.70	1.20	.88	-0.175	-0.149	-0.213	-0.094	-0.004
10.71	1.20	.99	-0.177	-0.147	-0.215	-0.091	-0.003
10.72	1.20	1.20	-0.177	-0.151	-0.197	-0.082	.001
10.73	1.20	1.32	-0.177	-0.154	-0.196	-0.078	.005
10.74	1.20	1.48	-0.178	-0.153	-0.188	-0.073	.002
10.75	1.20	1.58	-0.177	-0.158	-0.187	-0.066	.009
10.76	1.20	1.62	-0.178	-0.160	-0.192	-0.075	.003
10.77	1.20	1.62	-0.178	-0.162	-0.187	-0.078	.004
10.78	1.20	1.68	-0.178	-0.162	-0.184	-0.082	.008
10.79	1.20	1.63	-0.178	-0.161	-0.178	-0.076	.016
10.80	1.20	1.56	-0.180	-0.162	-0.181	-0.088	.008
10.81	1.20	1.43	-0.178	-0.159	-0.190	-0.081	.001
10.82	1.20	1.32	-0.179	-0.158	-0.187	-0.085	.002
10.83	1.20	1.16	-0.178	-0.156	-0.190	-0.093	.006
10.84	1.20	1.18	-0.177	-0.155	-0.192	-0.091	.000
10.85	1.20	1.09	-0.176	-0.157	-0.195	-0.096	-0.006
10.86	1.20	1.07	-0.180	-0.154	-0.192	-0.092	-0.006
10.87	1.20	1.00	-0.179	-0.155	-0.194	-0.093	-0.006
10.88	1.20	1.00	-0.178	-0.153	-0.192	-0.089	.001
10.89	1.19	1.13	-0.181	-0.154	-0.194	-0.090	.005
10.90	1.19	1.45	-0.180	-0.154	-0.193	-0.084	.006
10.91	1.19	1.16	-0.179	-0.153	-0.195	-0.077	.005
10.92	1.19	1.35	-0.180	-0.154	-0.187	-0.081	.004
10.93	1.19	1.43	-0.179	-0.154	-0.189	-0.084	.010
10.94	1.19	1.52	-0.180	-0.156	-0.178	-0.068	.011
10.95	1.19	1.51	-0.179	-0.157	-0.180	-0.070	.025
10.96	1.19	1.53	-0.180	-0.157	-0.186	-0.074	.006
10.97	1.19	1.53	-0.179	-0.158	-0.188	-0.074	.011
10.98	1.19	1.55	-0.181	-0.159	-0.182	-0.069	.012
10.99	1.19	1.47	-0.180	-0.159	-0.189	-0.081	.004

Model IV									
t _{sec}	M	α, deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}
10.24	.01	-0.201	.149	-.131	-.121	-.128	.049	-.029	10.20
10.24	-.04	-0.202	.150	-.131	-.119	-.127	.051	-.028	10.21
10.24	-.08	-0.201	.149	-.131	-.119	-.127	.049	-.028	10.22
10.24	-.16	-0.201	.151	-.130	-.118	-.127	.048	-.028	10.23
10.24	-.24	-0.202	.150	-.129	-.119	-.127	.044	-.028	10.24
10.24	-.32	-0.201	.150	-.130	-.118	-.126	.041	-.029	10.25
10.24	-.42	-0.200	.151	-.131	-.120	-.127	.037	-.035	10.26
10.24	-.45	-0.201	.151	-.132	-.119	-.126	.033	-.035	10.27
10.24	-.45	-0.201	.151	-.132	-.120	-.128	.030	-.037	10.28
10.23	-.45	-0.200	.150	-.134	-.121	-.129	.030	-.037	10.29
10.23	-.41	-0.200	.151	-.134	-.123	-.129	.031	-.034	10.30
10.23	-.38	-0.200	.150	-.137	-.122	-.131	.034	-.032	10.31
10.23	-.30	-0.200	.151	-.136	-.124	-.134	.037	-.035	10.32
10.23	-.24	-0.200	.150	-.137	-.125	-.135	.040	-.027	10.33
10.23	-.20	-0.201	.150	-.138	-.125	-.135	.043	-.029	10.34
10.23	-.13	-0.200	.150	-.137	-.125	-.135	.044	-.031	10.35
10.23	-.11	-0.201	.149	-.137	-.126	-.135	.044	-.032	10.36
10.23	-.10	-0.201	.148	-.136	-.124	-.135	.044	-.027	10.37
10.23	-.25	-0.201	.149	-.135	-.125	-.134	.045	-.028	10.38
10.23	-.25	-0.202	.149	-.135	-.125	-.133	.044	-.028	10.39
10.23	-.03	-0.201	.147	-.135	-.134	-.134	.044	-.026	10.40
10.23	-.24	-0.203	.150	-.134	-.121	-.133	.041	-.028	10.41
10.23	-.25	-0.202	.150	-.133	-.120	-.132	.040	-.029	10.42
10.23	-.30	-0.201	.150	-.133	-.120	-.129	.037	-.029	10.43
10.22	-.32	-0.202	.150	-.134	-.119	-.129	.035	-.029	10.44
10.22	-.35	-0.202	.150	-.132	-.119	-.127	.035	-.029	10.45
10.22	-.34	-0.202	.150	-.132	-.119	-.125	.035	-.030	10.46
10.22	-.34	-0.201	.150	-.125	-.121	-.128	.034	-.030	10.47
10.22	-.29	-0.201	.149	-.137	-.120	-.128	.034	-.030	10.48
10.22	-.28	-0.201	.151	-.136	-.122	-.128	.034	-.030	10.49
10.22	-.26	-0.201	.148	-.136	-.123	-.129	.036	-.030	10.50
10.22	-.24	-0.201	.149	-.139	-.124	-.133	.037	-.032	10.51
10.22	-.22	-0.201	.149	-.140	-.127	-.134	.039	-.032	10.52
10.22	-.21	-0.202	.148	-.142	-.128	-.135	.040	-.031	10.53
10.22	-.21	-0.201	.148	-.141	-.129	-.135	.040	-.031	10.54
10.22	-.19	-0.202	.149	-.142	-.130	-.136	.039	-.032	10.55
10.22	-.22	-0.201	.149	-.143	-.130	-.139	.039	-.032	10.56
10.22	-.21	-0.202	.148	-.141	-.130	-.136	.038	-.032	10.57
10.22	-.23	-0.201	.148	-.141	-.129	-.136	.037	-.032	10.58
10.22	-.26	-0.201	.148	-.141	-.129	-.137	.033	-.032	10.59
10.21	-.26	-0.200	.148	-.138	-.125	-.135	.036	-.033	10.60
10.21	-.29	-0.200	.146	-.136	-.124	-.135	.035	-.033	10.61
10.21	-.27	-0.200	.147	-.137	-.121	-.134	.035	-.033	10.62
10.21	-.29	-0.201	.147	-.135	-.123	-.129	.036	-.033	10.63
10.21	-.28	-0.201	.146	-.135	-.123	-.130	.036	-.033	10.64
10.21	-.25	-0.200	.147	-.133	-.122	-.128	.035	-.033	10.65
10.21	-.26	-.199	.147	-.134	-.123	-.128	.036	-.032	10.66
10.21	-.25	-0.200	.148	-.135	-.123	-.128	.035	-.034	10.67
10.21	-.25	-0.200	.146	-.137	-.124	-.129	.036	-.034	10.68
10.21	-.24	-0.201	.147	-.138	-.125	-.130	.036	-.033	10.69
10.21	-.23	-0.200	.146	-.140	-.127	-.133	.036	-.033	10.70
10.21	-.22	-0.200	.147	-.140	-.127	-.132	.036	-.034	10.71
10.21	-.21	-0.200	.147	-.142	-.128	-.133	.036	-.034	10.72
10.21	-.23	-0.201	.147	-.142	-0.130	-.133	.037	-.034	10.73
10.21	-.25	-0.200	.147	-.144	-.132	-.134	.036	-.035	10.74
10.20	-.24	-0.200	.147	-.143	-.131	-.134	.037		

TABLE III.- Continued

TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III											Model IV									
t _{sec}	M	α , deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	t _{sec}	M	α , deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	t _{sec}
11.00	1.19	1.42	-.179	-.157	-.193	-.078	.005	-.198	-.061	1.19	-.24	-.196	.147	-.146	-.131	-.132	.035	-.040	11.00	
11.01	1.19	1.32	-.177	-.157	-.196	-.090	.009	-.205	-.055	1.19	-.23	-.196	.150	-.145	-.131	-.131	.034	-.041	11.01	
11.02	1.19	1.22	-.176	-.154	-.204	-.089	-.003	-.220	-.060	1.19	-.23	-.196	.149	-.146	-.133	-.127	.037	-.043	11.02	
11.03	1.19	1.19	-.178	-.155	-.203	-.082	.011	-.201	-.068	1.19	-.22	-.197	.150	-.144	-.131	-.128	.037	-.040	11.03	
11.04	1.19	1.10	-.176	-.156	-.198	-.073	.005	-.211	-.061	1.19	-.24	-.198	.149	-.146	-.131	-.128	.036	-.040	11.04	
11.05	1.19	1.08	-.177	-.155	-.197	-.081	.004	-.204	-.065	1.19	-.23	-.199	.151	-.144	-.130	-.123	.037	-.042	11.05	
11.06	1.19	1.13	-.177	-.154	-.205	-.091	.005	-.214	-.067	1.19	-.24	-.199	.152	-.144	-.129	-.124	.037	-.042	11.06	
11.07	1.19	1.12	-.180	-.154	-.208	-.083	.003	-.207	-.065	1.18	-.25	-.199	.150	-.145	-.130	-.124	.035	-.043	11.07	
11.08	1.19	1.10	-.178	-.154	-.203	-.079	.005	-.209	-.062	1.18	-.25	-.198	.148	-.147	-.129	-.126	.033	-.044	11.08	
11.09	1.18	1.18	-.177	-.154	-.200	-.079	.022	-.201	-.062	1.18	-.27	-.199	.151	-.146	-.131	-.125	.035	-.043	11.09	
11.10	1.18	1.22	-.177	-.155	-.199	-.074	.013	-.198	-.062	1.18	-.26	-.198	.151	-.144	-.131	-.126	.034	-.041	11.10	
11.11	1.18	1.25	-.177	-.156	-.202	-.075	.012	-.196	-.059	1.18	-.29	-.199	.151	-.146	-.131	-.125	.035	-.035	11.11	
11.12	1.18	1.26	-.177	-.155	-.196	-.074	.011	-.198	-.053	1.18	-.27	-.198	.153	-.147	-.134	-.126	.034	-.035	11.12	
11.13	1.18	1.37	-.176	-.154	-.198	-.072	.014	-.195	-.057	1.18	-.27	-.199	.152	-.148	-.134	-.125	.032	-.034	11.13	
11.14	1.18	1.38	-.178	-.157	-.193	-.073	.010	-.190	-.051	1.18	-.29	-.199	.151	-.149	-.136	-.129	.034	-.034	11.14	
11.15	1.18	1.36	-.180	-.155	-.200	-.075	.016	-.196	-.054	1.18	-.28	-.198	.151	-.151	-.137	-.128	.034	-.034	11.15	
11.16	1.18	1.41	-.176	-.156	-.196	-.078	.012	-.184	-.057	1.18	-.29	-.199	.153	-.153	-.139	-.131	.033	-.038	11.16	
11.17	1.18	1.38	-.176	-.157	-.201	-.066	.006	-.181	-.056	1.18	-.26	-.198	.154	-.152	-.139	-.131	.032	-.038	11.17	
11.18	1.18	1.38	-.178	-.157	-.203	-.079	.016	-.190	-.052	1.18	-.26	-.198	.151	-.152	-.138	-.131	.033	-.039	11.18	
11.19	1.18	1.28	-.177	-.157	-.206	-.078	.010	-.189	-.053	1.18	-.25	-.199	.152	-.152	-.138	-.129	.030	-.036	11.19	
11.20	1.18	1.26	-.173	-.157	-.204	-.076	.011	-.187	-.058	1.18	-.26	-.197	.153	-.155	-.138	-.129	.032	-.036	11.20	
11.21	1.18	1.20	-.173	-.154	-.205	-.086	.004	-.191	-.060	1.18	-.17	-.199	.153	-.152	-.137	-.128	.032	-.036	11.21	
11.22	1.18	1.19	-.173	-.154	-.202	-.080	.007	-.195	-.055	1.18	.01	-.199	.154	-.152	-.137	-.127	.032	-.036	11.22	
11.23	1.18	1.12	-.173	-.153	-.200	-.079	.016	-.194	-.060	1.18	.35	-.198	.155	-.151	-.139	-.126	.043	-.023	11.23	
11.24	1.18	1.18	-.175	-.151	-.193	-.077	.009	-.186	-.061	1.17	.73	-.199	.154	-.151	-.142	-.130	.062	-.006	11.24	
11.25	1.18	1.16	-.174	-.152	-.200	-.088	.006	-.183	-.069	1.17	.93	-.199	.155	-.150	-.149	-.121	.093	.011	11.25	
11.26	1.18	1.11	-.174	-.154	-.196	-.090	-.003	-.189	-.066	1.17	.39	-.199	.154	-.159	-.151	-.121	.107	.016	11.26	
11.27	1.18	1.20	-.172	-.151	-.191	-.085	.005	-.177	-.064	1.17	1.49	-.197	.155	-.162	-.151	-.125	.109	.014	11.27	
11.28	1.17	1.19	-.173	-.150	-.194	-.073	.013	-.177	-.063	1.17	1.14	-.196	.156	-.159	-.149	-.120	.107	.013	11.28	
11.29	1.17	1.22	-.174	-.154	-.188	-.076	.020	-.180	-.063	1.17	.79	-.197	.154	-.160	-.147	-.123	.101	.009	11.29	
11.30	1.17	1.28	-.172	-.153	-.190	-.083	.019	-.181	-.059	1.17	.29	-.199	.156	-.156	-.147	-.122	.092	.002	11.30	
11.31	1.17	1.28	-.172	-.152	-.198	-.079	.003	-.184	-.064	1.17	-.18	-.198	.157	-.154	-.141	-.124	.073	.001	11.31	
11.32	1.17	1.31	-.172	-.154	-.182	-.078	.020	-.176	-.065	1.17	-.66	-.198	.158	-.151	-.138	-.128	.038	-.027	11.32	
11.33	1.17	1.28	-.172	-.153	-.185	-.080	.009	-.168	-.063	1.17	1.01	-.198	.157	-.147	-.132	-.123	.017	-.040	11.33	
11.34	1.17	1.31	-.172	-.152	-.184	-.073	.005	-.175	-.064	1.17	1.33	-.198	.157	-.141	-.128	-.128	.002	-.044	11.34	
11.35	1.17	1.33	-.172	-.152	-.190	-.075	.007	-.165	-.064	1.17	1.39	-.199	.156	-.139	-.127	-.125	.012	-.056	11.35	
11.36	1.17	1.32	-.173	-.154	-.187	-.080	.017	-.165	-.063	1.17	1.40	-.197	.158	-.137	-.125	-.125	-.012	-.056	11.36	
11.37	1.17	1.34	-.173	-.153	-.191	-.072	.007	-.169	-.065	1.17	1.26	-.197	.157	-.137	-.125	-.122	-.011	-.061	11.37	
11.38	1.17	1.32	-.172	-.152	-.190	-.078	.008	-.173	-.066	1.17	-.99	-.198	.156	-.137	-.127	-.122	-.005	-.057	11.38	
11.39	1.17	1.21	-.171	-.153	-.185	-.062	.008	-.174	-.066	1.17	-.62	-.198	.157	-.140	-.132	-.122	.002	-.051	11.39	
11.40	1.17	1.30	-.172	-.153	-.189	-.070	.003	-.169	-.066	1.17	-.27	-.197	.158	-.145	-.133	-.121	.016	-.040	11.40	
11.41	1.17	1.26	-.173	-.151	-.191	-.072	.003	-.181	-.067	1.17	-.01	-.198	.159	-.150	-.136	-.089	.032	-.029	11.41	
11.42	1.17	1.25	-.172	-.154	-.200	-.073	.005	-.175	-.070	1.17	.32	-.199	.158	-.154	-.140	-.113	.050	-.020	11.42	
11.43	1.17	1.19	-.172	-.152	-.215	-.086	.003	-.186	-.071	1.17	.45	-.197	.159	-.150	-.144	-.116	.071	-.010	11.43	
11.44	1.17	1.21	-.172	-.155	-.200	-.082	.002	-.180	-.073	1.16	.55	-.197	.155	-.160	-.147	-.117	.083	-.040	11.44	
11.45	1.17	1.28	-.174	-.151	-.197	-.081	.012	-.173	-.073	1.16	.51	-.197	.157	-.161	-.150	-.123	.087	-.040	11.45	
11.46	1.17	1.23	-.170	-.152	-.182	-.074	.007	-.175	-.073	1.16	.40	-.198	.157	-.164	-.151	-.128	.006	-.006	11.46	
11.47	1.17	1.26	-.175	-.153	-.185	-.069	.011	-.163	-.070	1.16	.21	-.198	.157	-.164	-.153	-.125	.075	.011	11.47	
11.48	1.16	1.23	-.174	-.153	-.193	-.082	.004	-.173	-.073	1.16	-.04	-.198	.156	-.162	-.150	-.131	.063	-.009	11.48	
11.49	1.16	1.25	-.173	-.153	-.195	-.083	-.001	-.182	-.074	1.16	-.30	-.196	.156	-.162	-.147	-.127	.043	-.010	11.49	
11.50	1.16	1.29	-.174	-.154	-.199	-.075	.012	-.163	-.073	1.16	-.54	-.197	.156	-.156	-.145	-.131	.027	-.033	11.50	
11.51	1.16	1.26	-.175	-.153	-.200	-.077	.010	-.176	-.071	1.16	-.74	-.197	.157	-.156	-.143	-.130	.017	-.021	11.51	
11.52	1.16	1.24	-.172	-.154	-.206	-.067	.001	-.165	-.071	1.16	-.84	-.198	.158	-.153	-.140	-.127	.010	-.039	11.52	
11.53	1.16	1.27	-.174	-.153	-.185	-.074	.005	-.169	-.070	1.16	-.92	-.196	.157	-.148	-.137	-.126	.005	-.049	11.53	
11.54	1.16	1.26	-.175	-.154	-.194	-.063	.010	-.159	-.073	1.16	-.90	-.196	.157	-.145	-.135	-.117	.004	-.056	11.54	
11.55	1.16	1.24	-.175	-.154	-.193	-.072	.002	-.161	-.076	1.16	-.78	-.196	.158	-.140	-.133	-.118	.002	-.047	11.55	
11.56	1.16	1.23	-.175	-.153	-.187	-.069	.009	-.170	-.076	1.16	-.67	-.196	.159	-.142	-.132	-.110	.012	-.050	11.56	
11.57	1.16	1.23	-.177	-.157	-.190	-.072	.005	-.164	-.072	1.16	-.45	-.195	.158	-.143	-.132	-.108	.018	-.036	11.57	
11.58	1.16	1.24	-.176	-.154	-.189	-.078	.002	-.158	-.072	1.16	-.24	-.195	.160	-.146	-.134	-.105	.026	-.037	11.58	
11.59	1.16	1.24	-.177	-.153	-.196	-.070	.011	-.161	-.074	1.16	-.07	-.194	.159	-.148	-.136	-.105	.037	-.028	11.59	
11.60	1.16	1.21	-.177	-.155	-.201	-.070	.011	-.157	-.075	1.16	.06	-.196	.159	-.149	-.139	-.104	.046	-.019	11.60	
11.61	1.16	1.23	-.170	-.149	-.200	-.078	.001	-.157	-.071	1.16	.11	-.196	.159	-.152	-.141	-.105	.054	-.009	11.61	
11.62	1.16	1.22	-.171	-.147	-.192	-.069	.002	-.164	-.071	1.16	.11	-.196	.161	-.154	-.143	-.107	.064	-.009	11.62	
11.63	1.16	1.25	-.172	-.149	-.199	-.069	.006	-.162	-.075	1.16	.14	-.196	.160	-.156	-.144	-.113	.065	-.014	11.63	
11.64	1.16	1.24	-.172	-.150	-.200	-.067	.010	-.169	-.073	1.15	.06	-.196	.1							

TABLE III.- Continued
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Continued

Model III										Model IV									
t, sec	M	α , deg	C _{p,1}	C _{p,4}	C _{p,10}	C _{p,11}	C _{p,12}	C _{p,13}	C _{p,14}	M	α , deg	C _{p,1}	C _{p,4}	C _{p,7}	C _{p,8}	C _{p,9}	C _{p,20}	C _{p,21}	sec
11.80	1.15	1.14	-.172	-.145	-.206	-.063	.007	-.174	-.075	1.15	.02	-.196	.161	-.153	-.139	-.100	.045	-.021	11.80
11.81	1.15	1.15	-.172	-.143	-.209	-.059	.006	-.166	-.077	1.15	.01	-.196	.163	-.154	-.139	-.096	.047	-.023	11.81
11.82	1.15	1.13	-.170	-.143	-.209	-.068	.008	-.164	-.077	1.15	-.05	-.197	.163	-.155	-.141	-.095	.044	-.023	11.82
11.83	1.15	1.17	-.174	-.139	-.215	-.058	.005	-.171	-.077	1.15	-.15	-.197	.163	-.157	-.142	-.097	.041	-.021	11.83
11.84	1.15	1.14	-.176	-.139	-.226	-.069	.004	-.173	-.077	1.14	-.25	-.197	.163	-.158	-.144	-.105	.035	-.023	11.84
11.85	1.15	1.22	-.172	-.134	-.204	-.084	.008	-.167	-.077	1.14	-.34	-.196	.163	-.158	-.145	-.104	.030	-.023	11.85
11.86	1.15	1.16	-.174	-.134	-.210	-.059	.007	-.163	-.076	1.14	-.44	-.196	.164	-.161	-.148	-.110	.024	-.023	11.86
11.87	1.15	1.11	-.175	-.132	-.225	-.068	.024	-.171	-.078	1.14	-.48	-.196	.163	-.161	-.150	-.114	.018	-.028	11.87
11.88	1.14	1.25	-.176	-.134	-.221	-.056	.009	-.172	-.079	1.14	-.55	-.195	.163	-.160	-.149	-.111	.015	-.037	11.88
11.89	1.14	1.23	-.175	-.135	-.220	-.060	.008	-.157	-.078	1.14	-.57	-.195	.165	-.161	-.149	-.117	.012	-.038	11.89
11.90	1.14	1.24	-.176	-.138	-.212	-.062	.012	-.168	-.077	1.14	-.55	-.196	.163	-.161	-.151	-.112	.012	-.039	11.90
11.91	1.14	1.26	-.176	-.144	-.208	-.052	.010	-.175	-.066	1.14	-.56	-.195	.162	-.161	-.151	-.119	.011	-.041	11.91
11.92	1.14	1.21	-.175	-.147	-.211	-.065	.012	-.170	-.069	1.14	-.48	-.195	.162	-.162	-.150	-.117	.014	-.028	11.92
11.93	1.14	1.28	-.178	-.149	-.202	-.067	.005	-.159	-.068	1.14	-.41	-.195	.164	-.162	-.147	-.106	.015	-.025	11.93
11.94	1.14	1.29	-.177	-.148	-.185	-.055	.016	-.155	-.069	1.14	-.33	-.195	.164	-.161	-.145	-.110	.021	-.018	11.94
11.95	1.14	1.18	-.178	-.149	-.202	-.066	.009	-.151	-.069	1.14	-.27	-.194	.162	-.157	-.145	-.101	.028	-.020	11.95
11.96	1.14	1.16	-.178	-.147	-.203	-.061	.004	-.166	-.073	1.14	-.22	-.194	.163	-.156	-.142	-.101	.032	-.020	11.96
11.97	1.14	1.15	-.180	-.142	-.183	-.057	.005	-.170	-.075	1.14	-.13	-.194	.166	-.158	-.141	-.099	.037	-.023	11.97
11.98	1.14	1.20	-.178	-.142	-.208	-.057	.004	-.180	-.077	1.14	-.10	-.195	.165	-.157	-.140	-.095	.041	-.023	11.98
11.99	1.14	1.14	-.178	-.137	-.207	-.069	.071	-.171	-.078	1.14	-.09	-.195	.163	-.158	-.139	-.094	.044	-.016	11.99
12.00	1.14	1.15	-.180	-.137	-.223	-.061	.007	-.170	-.082	1.14	-.12	-.195	.163	-.156	-.142	-.095	.041	-.022	12.00
										1.14	-.17	-.194	.163	-.160	-.143	-.094	.040	-.024	12.01
										1.14	-.20	-.195	.162	-.157	-.143	-.094	.036	-.027	12.02
										1.14	-.28	-.195	.163	-.159	-.143	-.093	.031	-.028	12.03
										1.13	-.33	-.196	.164	-.160	-.143	-.095	.024	-.028	12.04
										1.13	-.42	-.195	.162	-.161	-.144	-.095	.020	-.022	12.05
										1.13	-.45	-.195	.162	-.162	-.146	-.097	.015	-.023	12.06
										1.13	-.50	-.196	.163	-.163	-.146	-.096	.011	-.028	12.07
										1.13	-.51	-.196	.163	-.162	-.149	-.096	.009	-.029	12.08
										1.13	-.49	-.196	.164	-.165	-.150	-.096	.010	-.029	12.09
										1.13	-.47	-.196	.163	-.161	-.150	-.096	.012	-.030	12.10
										1.13	-.43	-.195	.163	-.163	-.151	-.096	.014	-.024	12.11
										1.13	-.38	-.196	.160	-.167	-.150	-.096	.019	-.022	12.12
										1.13	-.34	-.198	.158	-.168	-.151	-.095	.024	-.002	12.13
										1.13	-.29	-.197	.161	-.167	-.150	-.093	.031	-.012	12.14
										1.13	-.26	-.196	.160	-.168	-.150	-.093	.034	-.016	12.15
										1.13	-.23	-.195	.158	-.167	-.149	-.093	.037	-.017	12.16
										1.13	-.23	-.194	.156	-.166	-.152	-.094	.037	-.019	12.17
										1.13	-.21	-.195	.158	-.167	-.148	-.094	.040	-.017	12.18
										1.13	-.21	-.195	.159	-.165	-.148	-.092	.039	-.018	12.19
										1.13	-.22	-.194	.158	-.164	-.144	-.091	.038	-.018	12.20
										1.13	-.29	-.195	.158	-.168	-.142	-.090	.034	-.018	12.21
										1.13	-.26	-.195	.158	-.167	-.139	-.090	.034	-.018	12.22
										1.12	-.32	-.196	.157	-.167	-.140	-.092	.030	-.018	12.23
										1.12	-.35	-.196	.159	-.165	-.142	-.092	.025	-.019	12.24
										1.12	-.40	-.194	.156	-.166	-.140	-.091	.019	-.019	12.25
										1.12	-.45	-.195	.158	-.166	-.140	-.092	.015	-.019	12.26
										1.12	-.46	-.197	.157	-.166	-.140	-.091	.014	-.020	12.27
										1.12	-.44	-.195	.157	-.166	-.142	-.093	.014	-.020	12.28
										1.12	-.45	-.196	.157	-.168	-.143	-.094	.016	-.017	12.29
										1.12	-.43	-.195	.157	-.168	-.143	-.093	.017	-.025	12.30
										1.12	-.39	-.194	.156	-.169	-.142	-.090	.018	-.024	12.31
										1.12	-.36	-.193	.156	-.169	-.143	-.092	.019	-.024	12.32
										1.12	-.36	-.194	.157	-.171	-.147	-.091	.021	-.025	12.33
										1.12	-.36	-.194	.156	-.173	-.148	-.092	.025	-.025	12.34
										1.12	-.30	-.194	.156	-.175	-.148	-.093	.027	-.026	12.35
										1.12	-.31	-.194	.157	-.174	-.147	-.092	.029	-.026	12.36
										1.12	-.28	-.194	.157	-.176	-.146	-.092	.033	-.017	12.37
										1.12	-.28	-.193	.155	-.172	-.143	-.091	.035	-.017	12.38
										1.12	-.29	-.193	.157	-.173	-.147	-.091	.035	-.007	12.39
										1.12	-.32	-.193	.156	-.173	-.144	-.092	.031	-.005	12.40
										1.12	-.37	-.196	.159	-.174	-.141	-.087	.033	-.020	12.41
										1.12	-.36	-.195	.159	-.174	-.139	-.087	.033	-.008	12.42
										1.11	-.38	-.196	.159	-.173	-.137	-.088	.033	-.015	12.43
										1.11	-.37	-.194	.158	-.173	-.138	-.090	.032	-.016	12.44
										1.11	-.37	-.195	.158	-.171	-.136	-.088	.030	-.001	12.45
										1.11	-.01	-.196	.158	-.173	-.133	-.088	.031	-.012	12.46
										1.11	-.46	-.197	.157	-.173	-.135	-.090	.031	-.004	12.47
										1.11	-.40	-.194	.159	-.170	-.135	-.087	.032	-.012	12.48
										1.11	-.40	-.195	.159	-.174	-.136	-.085	.032	-.013	12.49
										1.11	-.37	-.195	.159	-.173	-.137	-.089	.033	-.013	12.50
										1.11	-.41	-.195	.159	-.176	-.138	-.088	.032	-.016	12.51
										1.11	-.37	-.194	.158	-.177	-.140	-.087	.033	-.016	12.52
										1.11	-.36	-.195	.158	-.177	-.139	-.089	.033	-.017	12.53
										1.11	-.36	-.195	.162	-.177	-.138	-.083	.034	-.018	12.54
										1.11	-.37	-.195	.156	-.178	-.145	-.086	.034	-.000	12.55
										1.11	-.37	-.196	.156	-.178	-.143	-.086	.034	-.008	12.56
										1.11	-.35	-.195	.157	-.178	-.144	-.085	.035	-.004	12.57
										1.11	-.37	-.195	.156	-.180	-.144	-.090	.035	-.006	12.58
										1.11	-.37	-.196	.157	-.179	-.145	-.089	.037	-.002	12.59

TABLE III.- Concluded
 TABULATION OF MACH NUMBER, ANGLE OF ATTACK, AND PRESSURE COEFFICIENTS AGAINST TIME

(b) Models III and IV - Concluded

Model III										Model IV									
t_2 sec	M	α deg	$C_{p,1}$	$C_{p,4}$	$C_{p,10}$	$C_{p,11}$	$C_{p,12}$	$C_{p,13}$	$C_{p,14}$	M	α deg	$C_{p,1}$	$C_{p,4}$	$C_{p,7}$	$C_{p,8}$	$C_{p,9}$	$C_{p,20}$	$C_{p,21}$	t_2 sec
1.11		-0.37	-0.195			.156	-0.178	-0.143	-0.088	.034	-0.008	12.60							
1.11		-0.41	-0.197			.160	-0.182	-0.141	-0.085	.034	-0.025	12.61							
1.11		-0.40	-0.197			.159	-0.180	-0.139	-0.084	.034	-0.023	12.62							
1.10		-0.41	-0.197			.159	-0.181	-0.139	-0.083	.034	-0.019	12.63							
1.10		-0.41	-0.196			.159	-0.180	-0.135	-0.084	.035	-0.005	12.64							
1.10		-0.41	-0.195			.160	-0.176	-0.134	-0.086	.035	-0.018	12.65							
1.10		-0.37	-0.195			.159	-0.178	-0.134	-0.086	.038	-0.012	12.66							
1.10		-0.40	-0.196			.158	-0.178	-0.132	-0.084	.039	-0.013	12.67							
1.10		-0.37	-0.197			.158	-0.177	-0.130	-0.084	.042	-0.018	12.68							
1.10		-0.38	-0.197			.159	-0.177	-0.131	-0.083	.041	-0.025	12.69							
1.10		-0.38	-0.195			.160	-0.176	-0.129	-0.083	.041	-0.020	12.70							
1.10		-0.38	-0.195			.160	-0.177	-0.128	-0.084	.043	-0.021	12.71							
1.10		-0.39	-0.195			.159	-0.178	-0.129	-0.083	.043	-0.008	12.72							
1.10		-0.38	-0.194			.160	-0.178	-0.129	-0.083	.044	-0.019	12.73							
1.10		-0.39	-0.195			.161	-0.178	-0.128	-0.084	.044	-0.021	12.74							
1.10		-0.37	-0.194			.160	-0.179	-0.131	-0.083	.045	-0.011	12.75							
1.10		-0.40	-0.193			.163	-0.179	-0.132	-0.083	.045	-0.017	12.76							
1.10		-0.40	-0.193			.161	-0.180	-0.132	-0.084	.046	-0.012	12.77							
1.10		-0.42	-0.194			.160	-0.180	-0.135	-0.086	.046	-0.002	12.78							
1.10		-0.40	-0.194			.159	-0.181	-0.133	-0.084	.047	-0.017	12.79							
1.10		-0.40	-0.194			.158	-0.180	-0.135	-0.084	.048	-0.021	12.80							
1.10		-0.44	-0.195			.162	-0.184	-0.132	-0.081	.046	-0.012	12.81							
1.10		-0.43	-0.195			.161	-0.184	-0.134	-0.082	.048	-0.016	12.82							
1.09		-0.42	-0.195			.162	-0.183	-0.135	-0.082	.048	-0.012	12.83							
1.09		-0.45	-0.195			.162	-0.185	-0.135	-0.080	.049	-0.010	12.84							
1.09		-0.41	-0.195			.161	-0.184	-0.133	-0.081	.050	-0.015	12.85							
1.09		-0.39	-0.197			.162	-0.184	-0.132	-0.082	.050	-0.025	12.86							
1.09		-0.40	-0.195			.162	-0.184	-0.129	-0.081	.052	-0.017	12.87							
1.09		-0.39	-0.194			.162	-0.183	-0.128	-0.082	.053	-0.014	12.88							
1.09		-0.39	-0.195			.162	-0.183	-0.127	-0.081	.053	-0.034	12.89							
1.09		-0.36	-0.194			.161	-0.181	-0.124	-0.079	.054	-0.020	12.90							
1.09		-0.37	-0.193			.160	-0.181	-0.124	-0.082	.054	-0.021	12.91							
1.09		-0.38	-0.194			.163	-0.180	-0.122	-0.079	.054	-0.001	12.92							
1.09		-0.38	-0.192			.161	-0.178	-0.118	-0.082	.053	-0.020	12.93							
1.09		-0.40	-0.193			.163	-0.178	-0.122	-0.079	.053	-0.016	12.94							
1.09		-0.41	-0.193			.161	-0.178	-0.119	-0.080	.053	-0.017	12.95							
1.09		-0.41	-0.192			.161	-0.179	-0.121	-0.081	.051	-0.024	12.96							
1.09		-0.42	-0.193			.163	-0.180	-0.120	-0.077	.051	-0.013	12.97							
1.09		-0.44	-0.192			.163	-0.181	-0.122	-0.079	.051	-0.005	12.98							
1.09		-0.44	-0.192			.162	-0.184	-0.123	-0.079	.051	-0.016	12.99							
1.09		-0.45	-0.192			.160	-0.181	-0.125	-0.080	.048	-0.012	13.00							

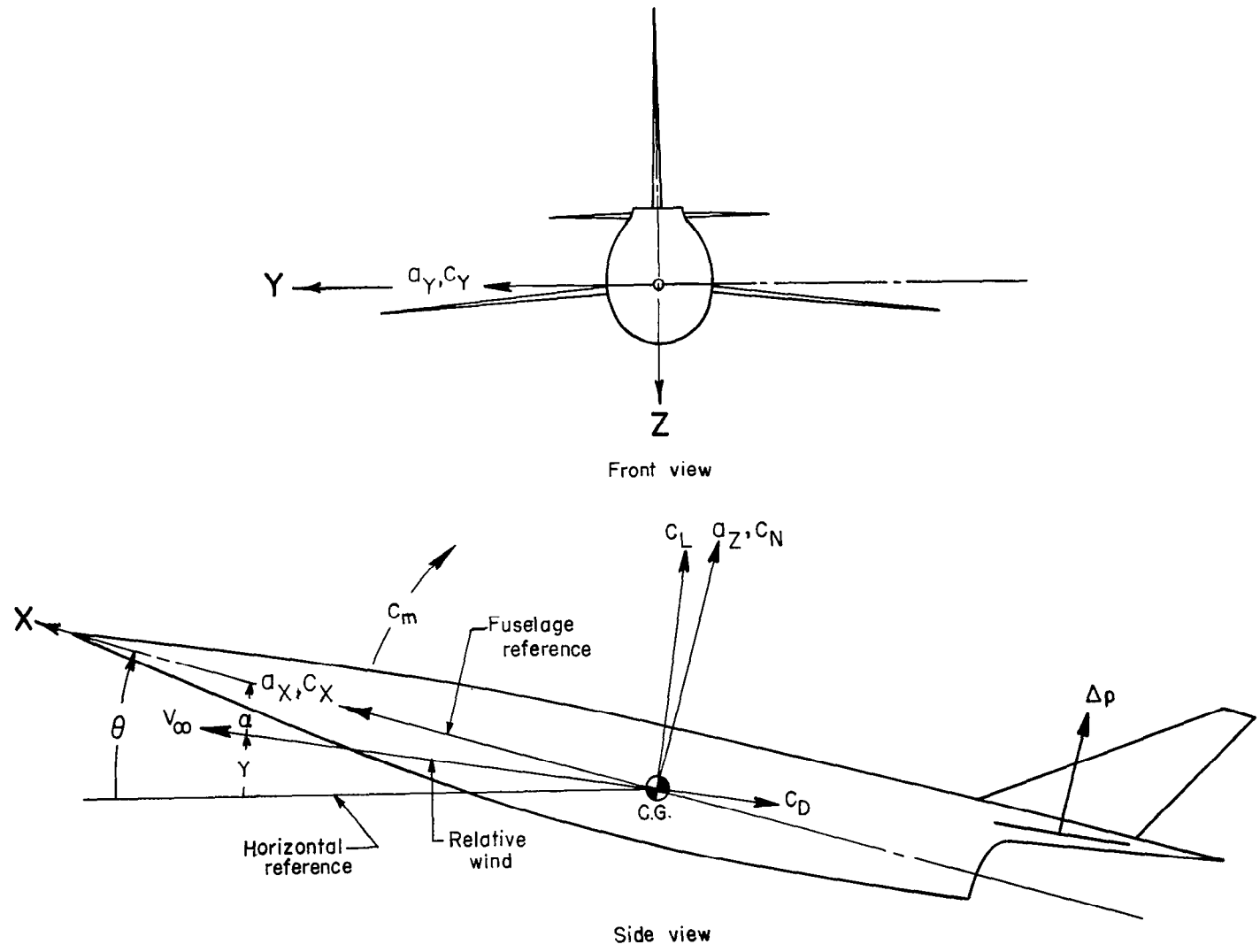


Figure 1.- Body-axis system used in the analysis. Positive directions, forces, moments and pressures indicated by arrows.

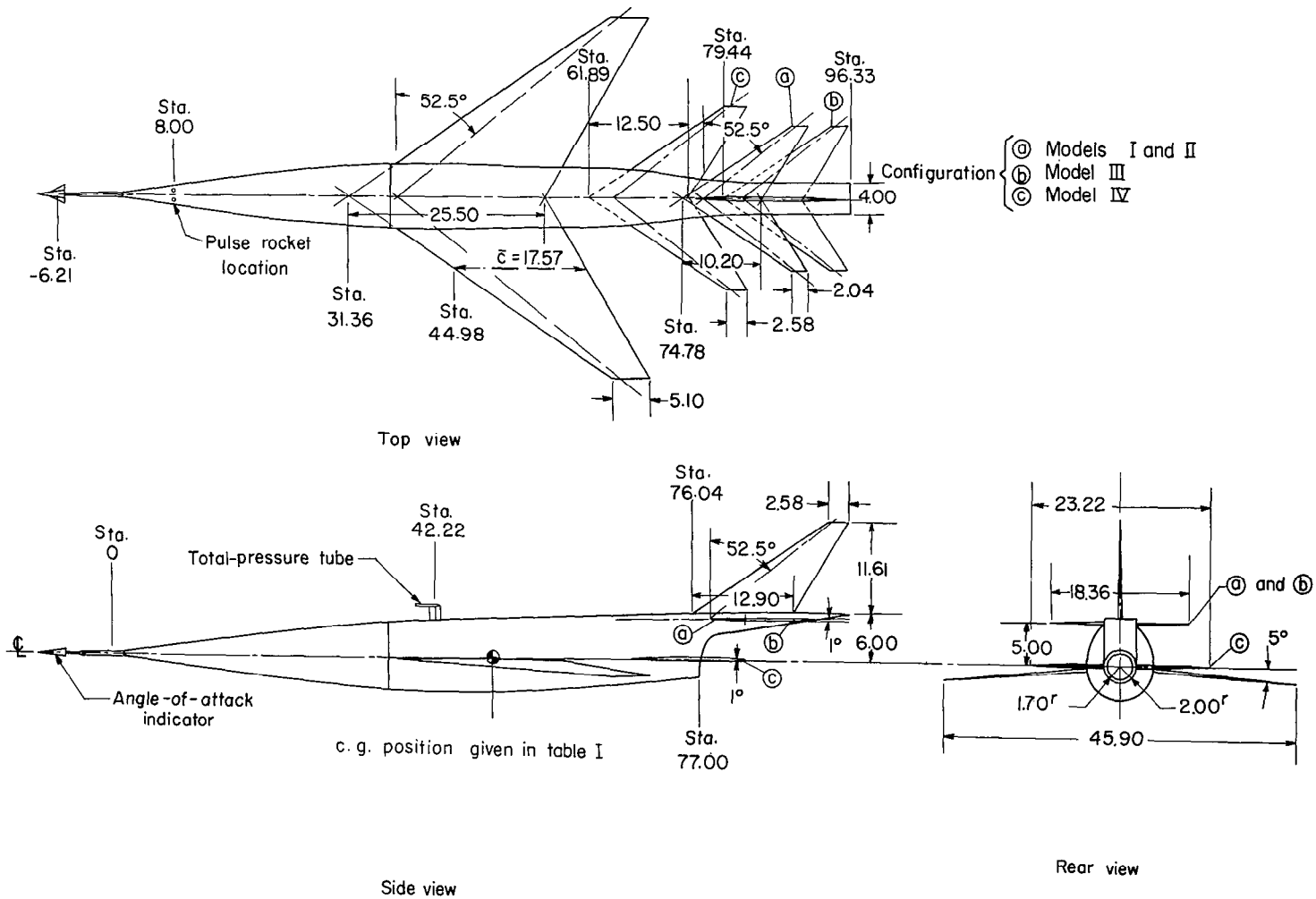


Figure 2.- Sketch of models tested.

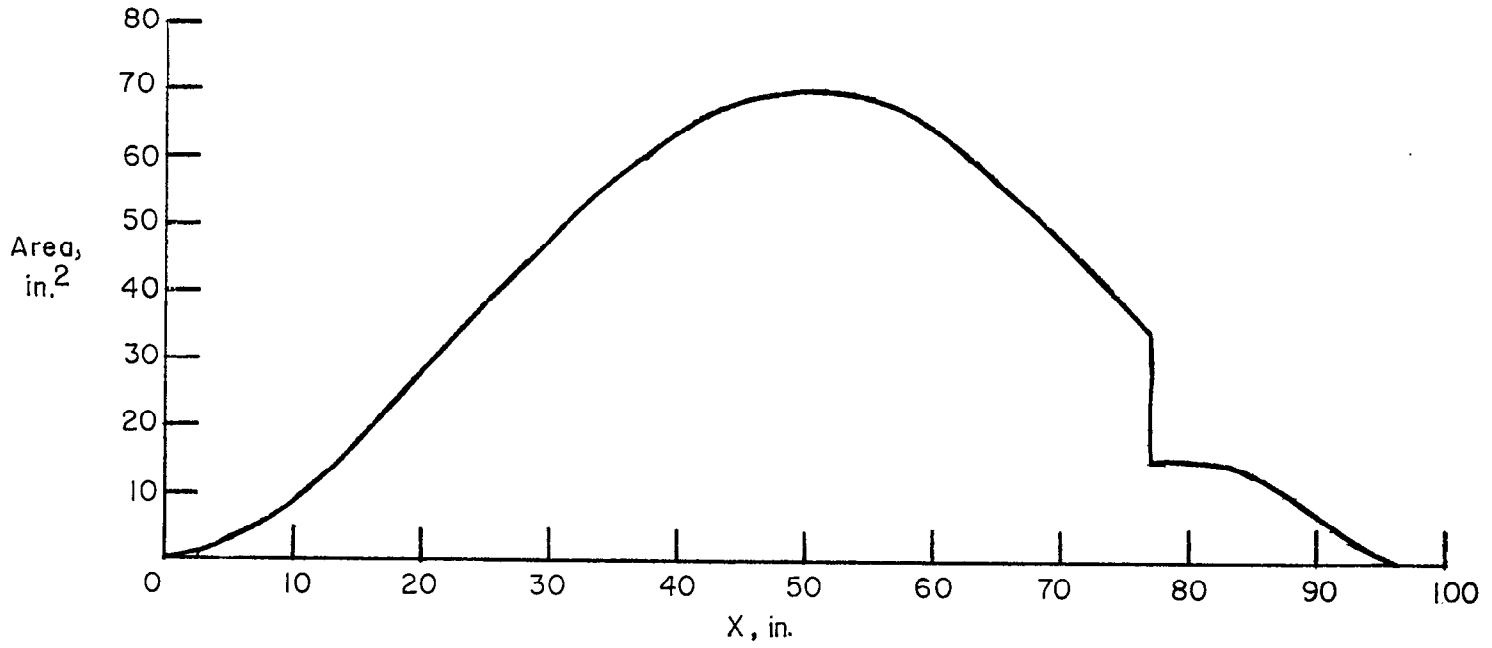


Figure 3.- Normal area distribution.

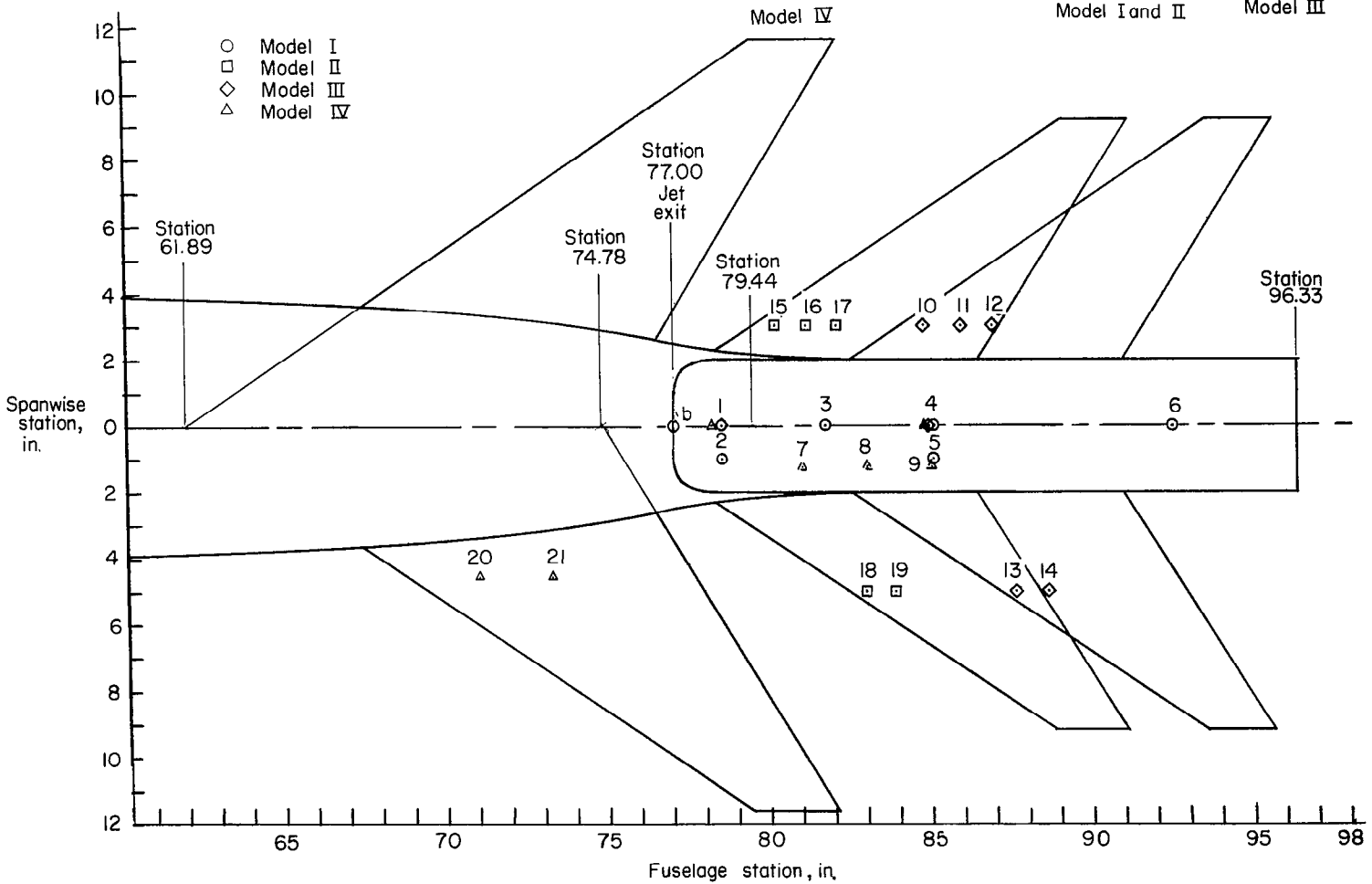
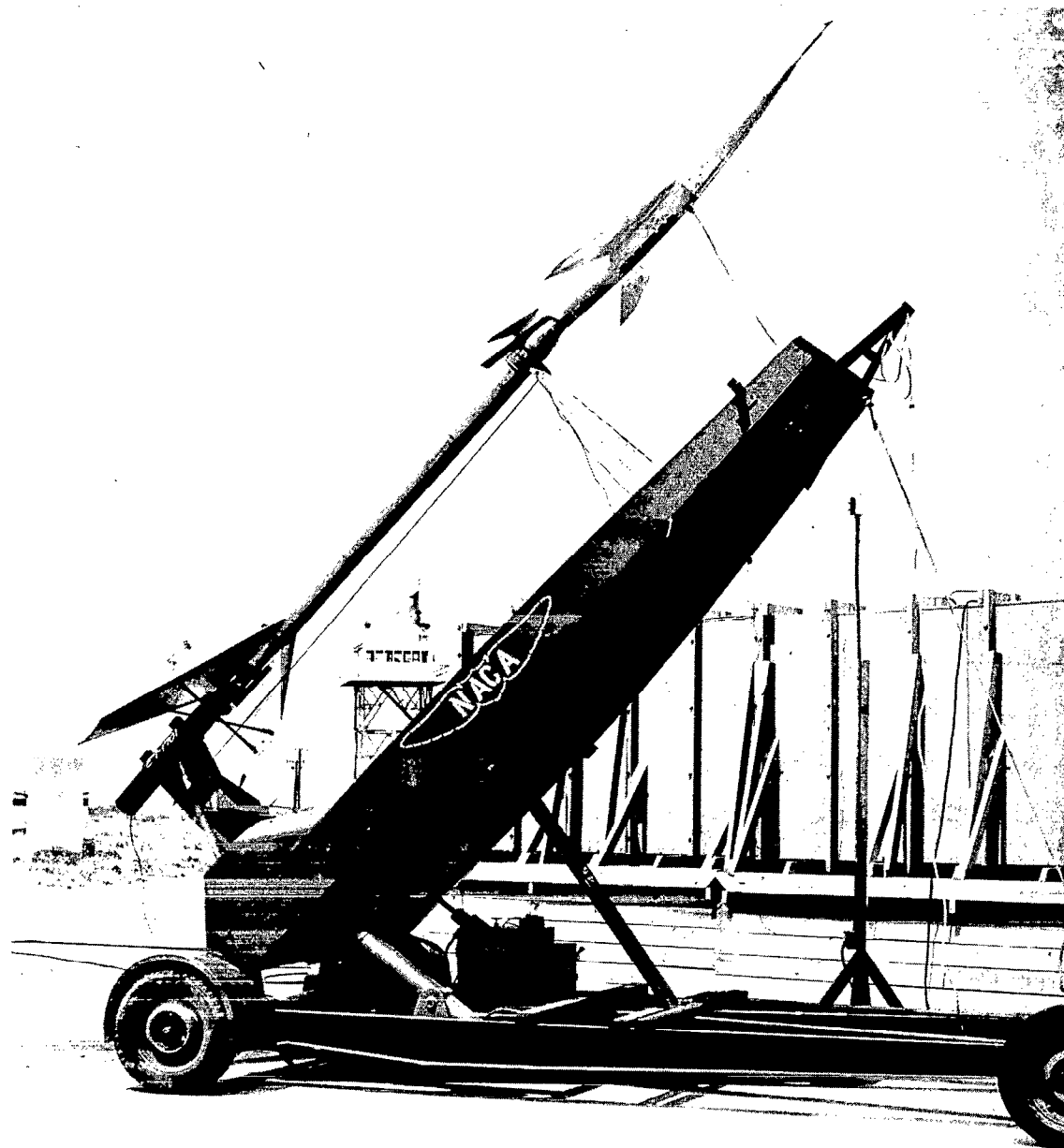
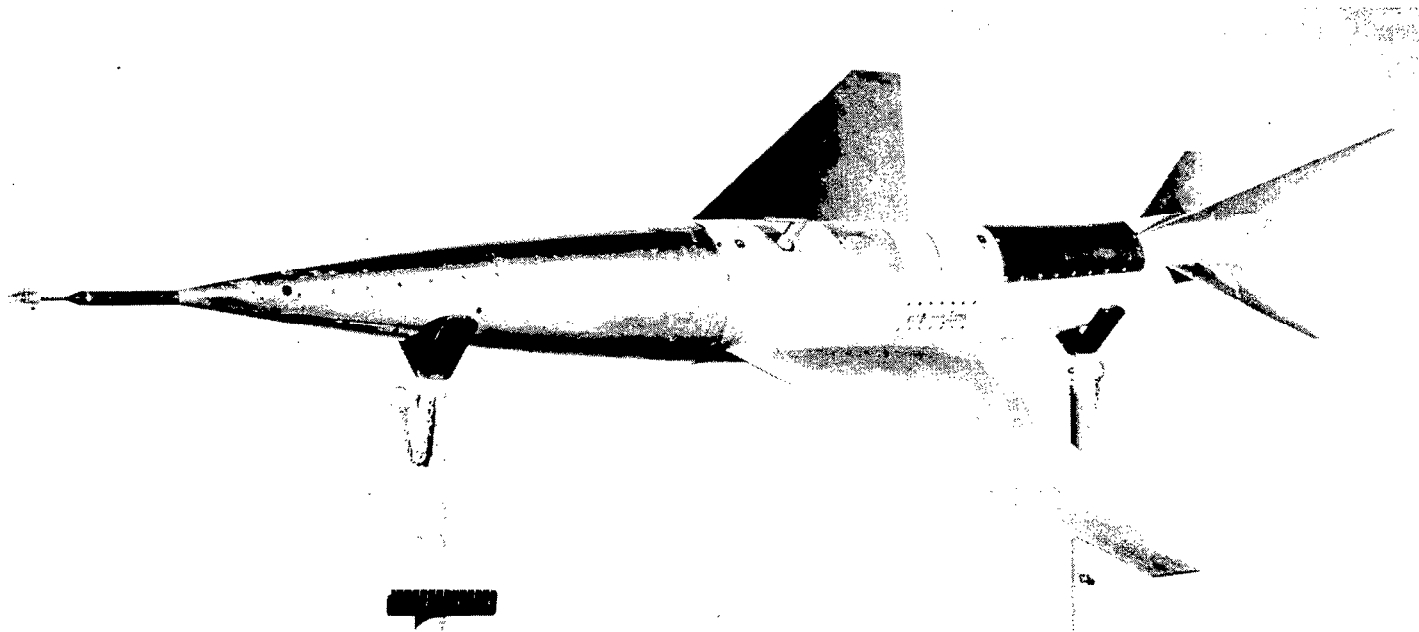


Figure 4.- Drawing of the rear portion of the fuselage showing the three tail positions and the orifice locations.



(a) Model I on launcher. L-90106

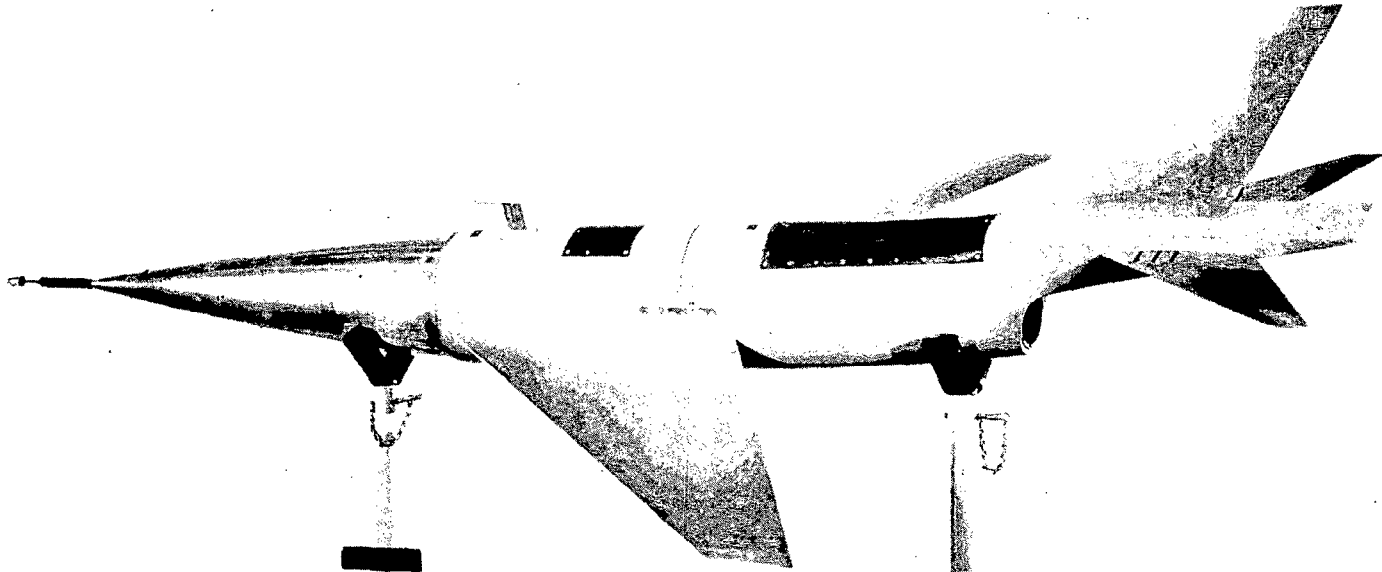
Figure 5.- Photographs of model.



(b) Model II.

L-91578

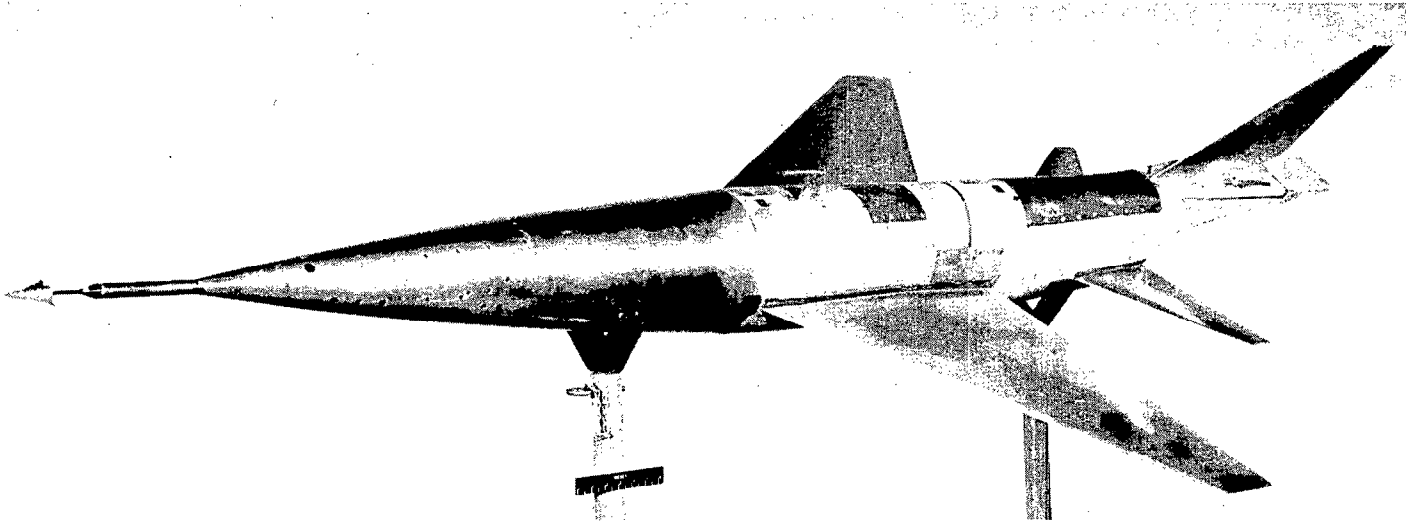
Figure 5.- Continued.



(c) Model III.

L-90655

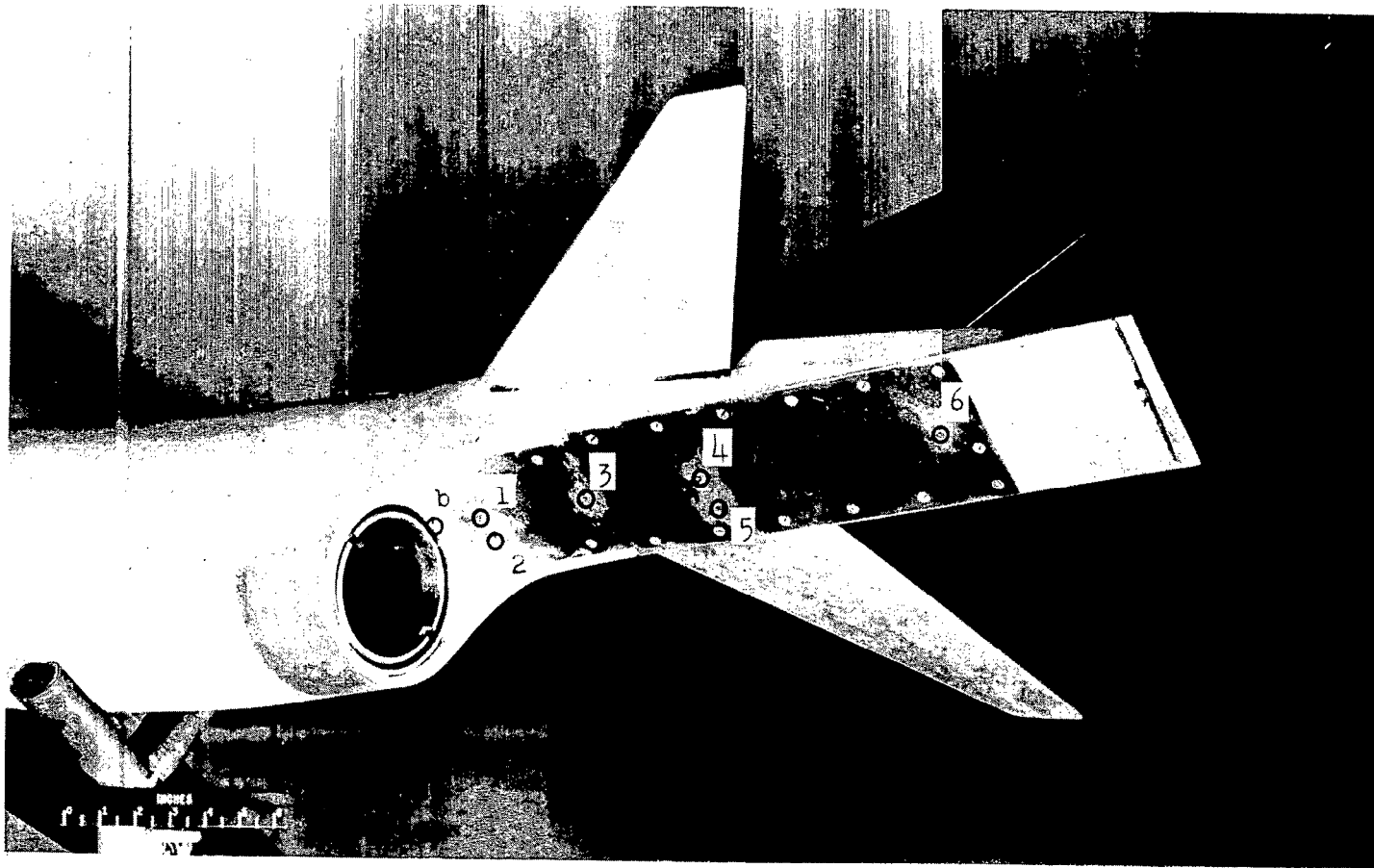
Figure 5.- Continued.



(d) Model IV.

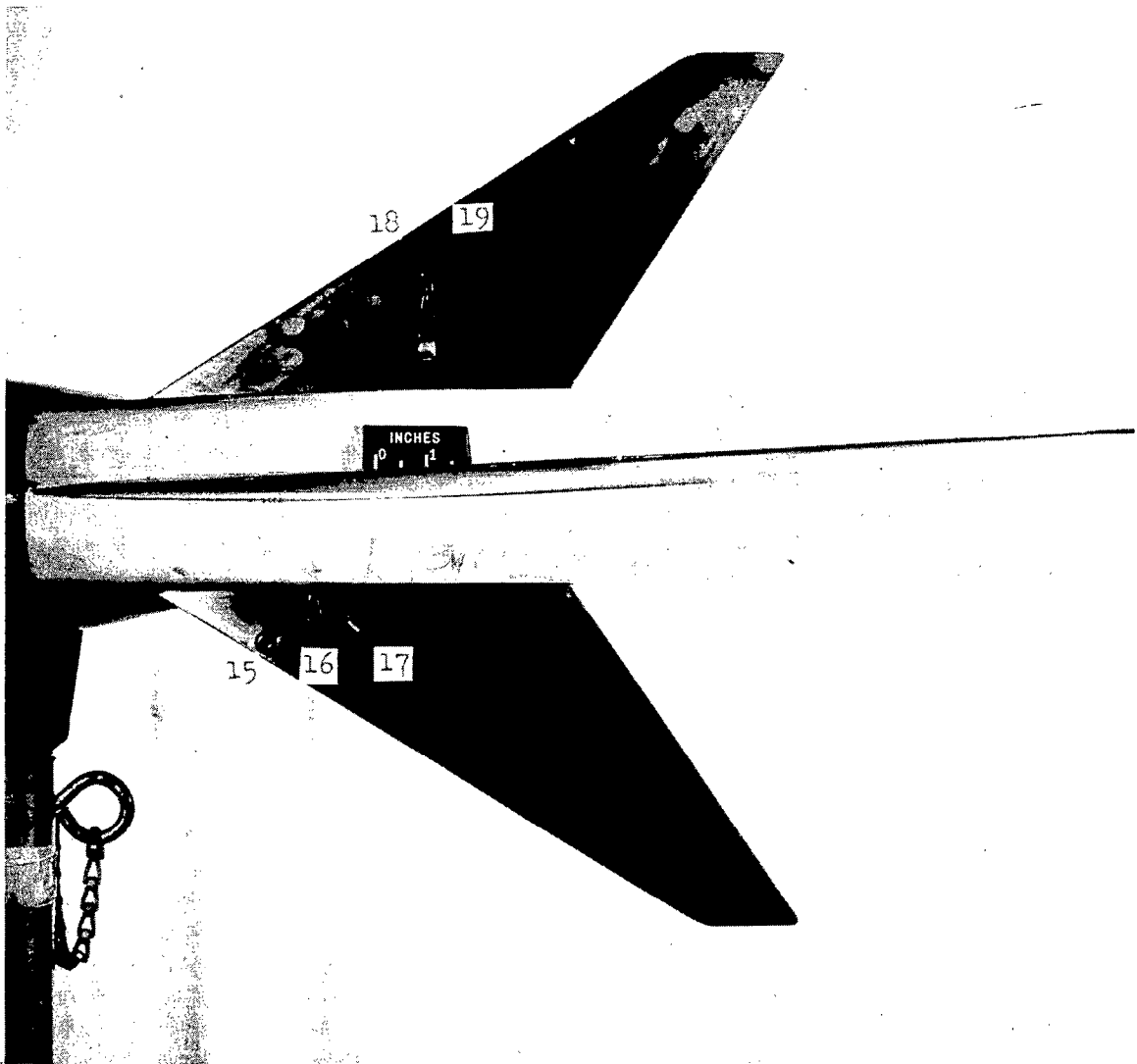
L-92756

Figure 5.- Continued.



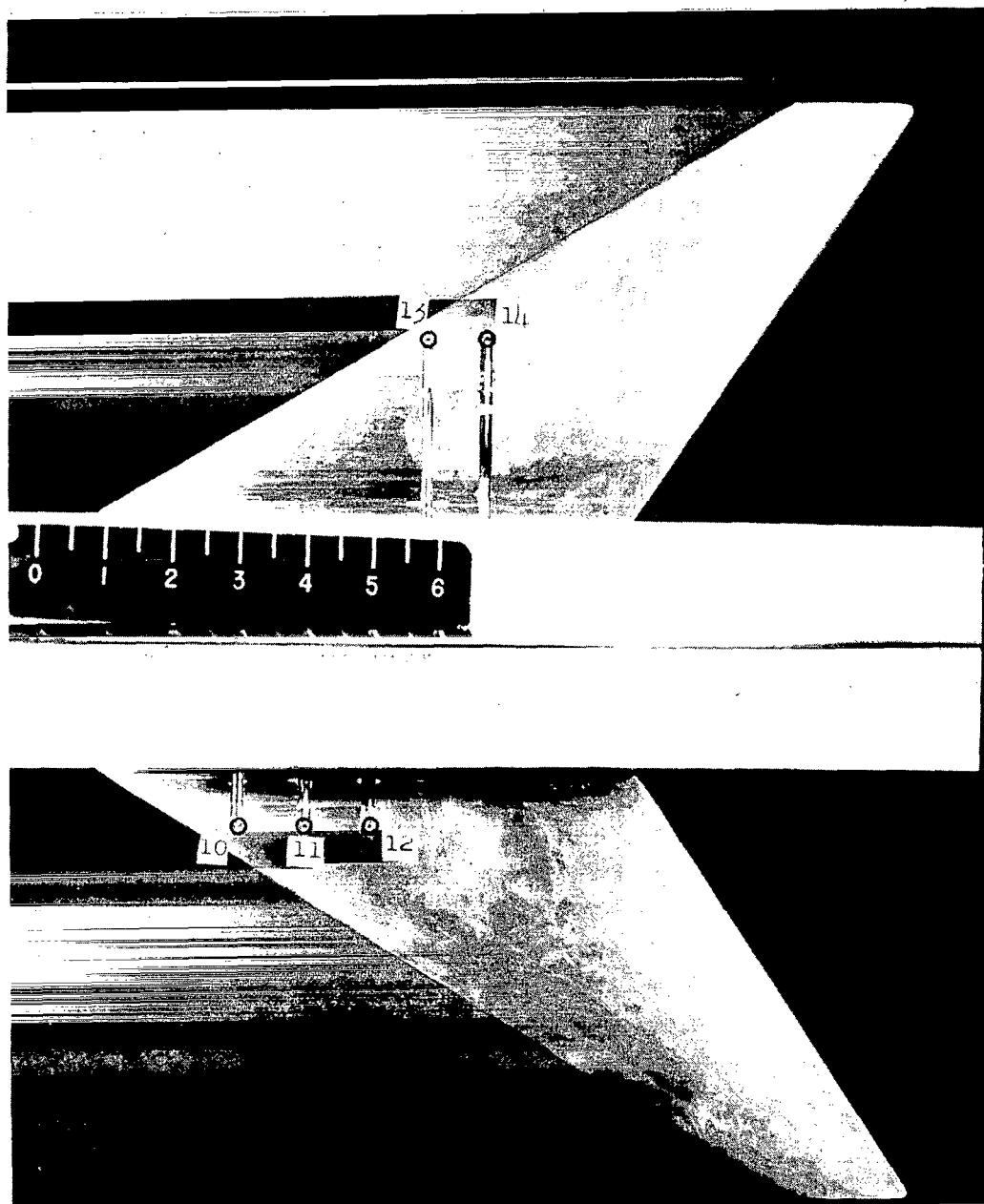
(e) View of model I boom showing boom pressure orifices. L-89721.1

Figure 5.- Continued.



(f) View of model II tail showing tail pressure orifices. L-91580.1

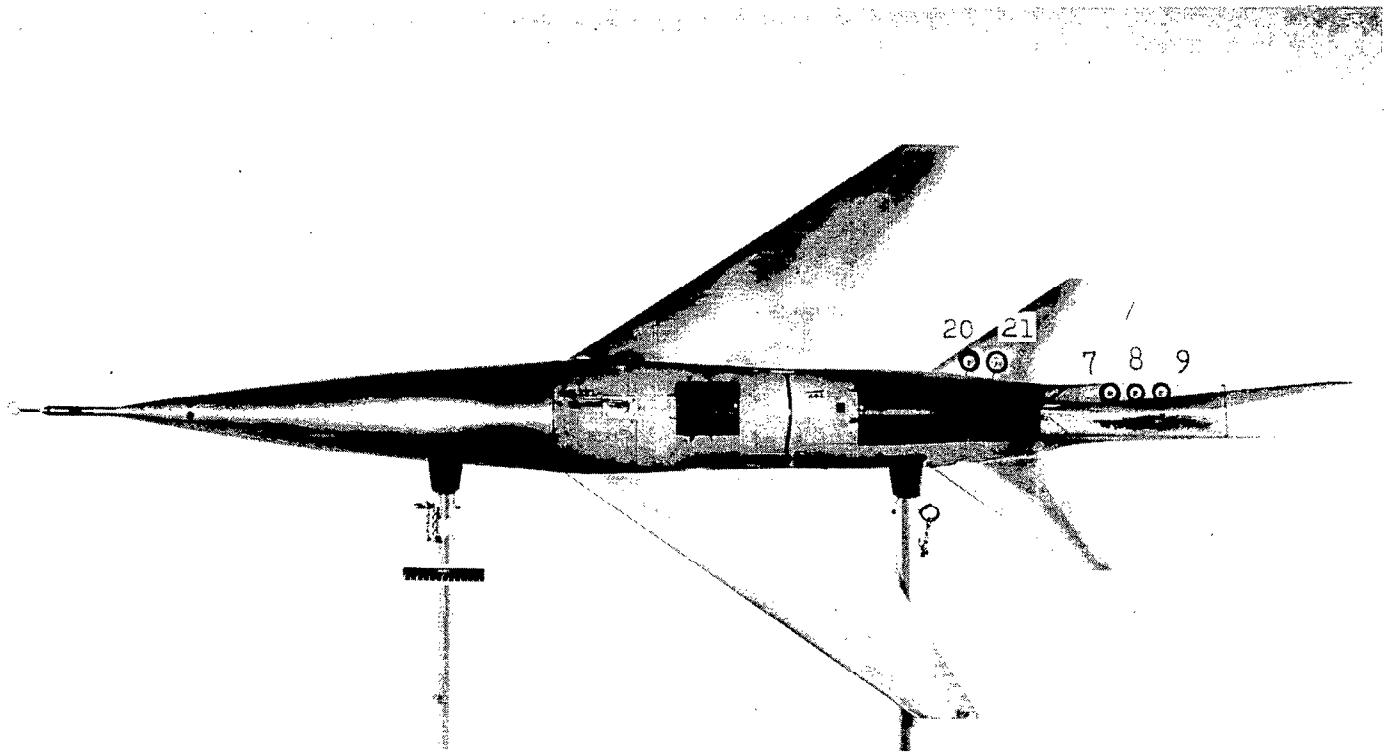
Figure 5.- Continued.



L-90656.1

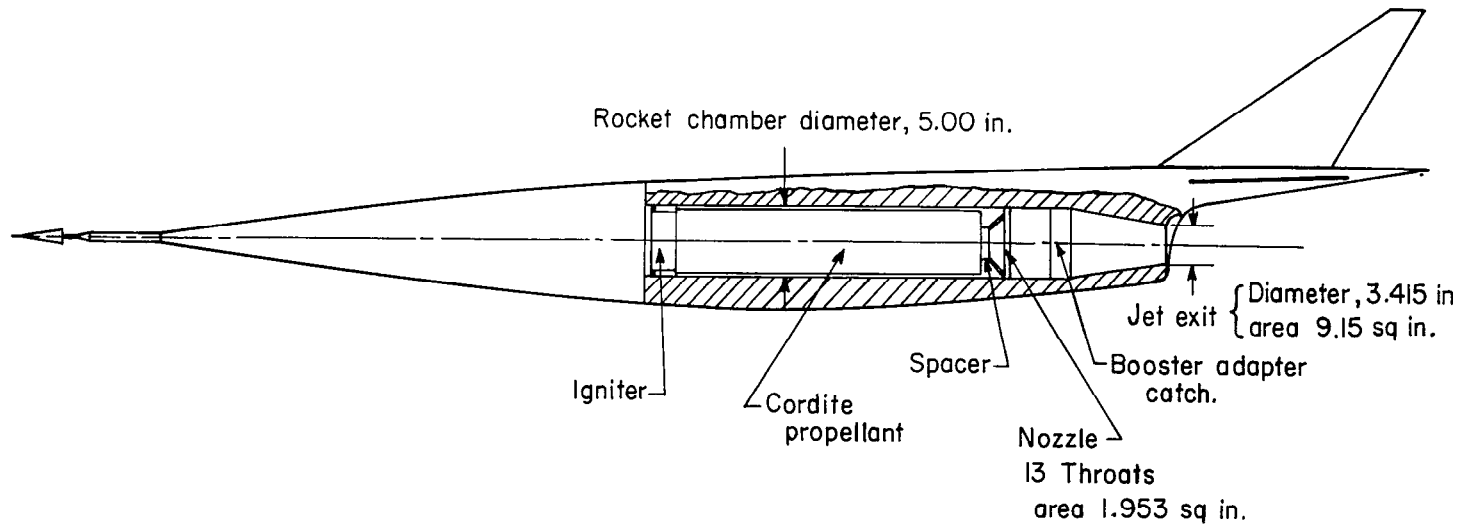
(g) View of model III tail showing tail pressure orifices.

Figure 5.- Continued.



(h) Plan-form view of model IV showing tail and top boom pressure orifices. L-92755.1

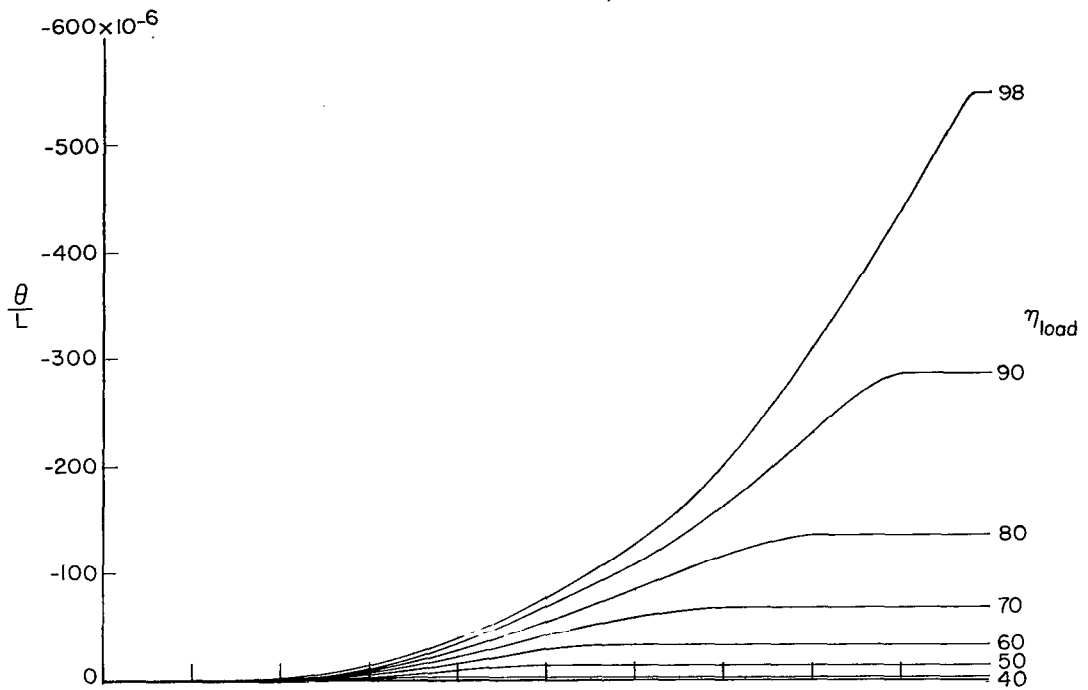
Figure 5.- Concluded.



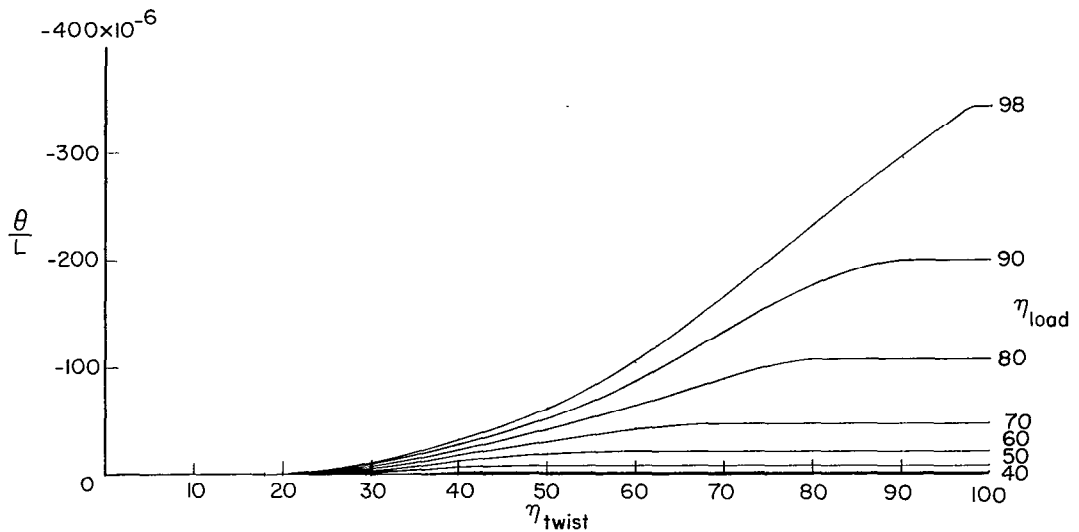
Jet Operating Characteristics Obtained From
A Static Ground Firing

- Total temperature of the jet, 3,680° R
- Velocity of the jet, 2,810 ft/sec
- Weight flow, 5.26 lb/sec, average
- Thrust, 741 lb
- Jet total pressure, 81.8 lb/sq in. abs
- Jet static pressure, 45.6 lb/sq in. abs
- Ratio of specific heats, 1.24

Figure 6.- Turbojet simulator description.

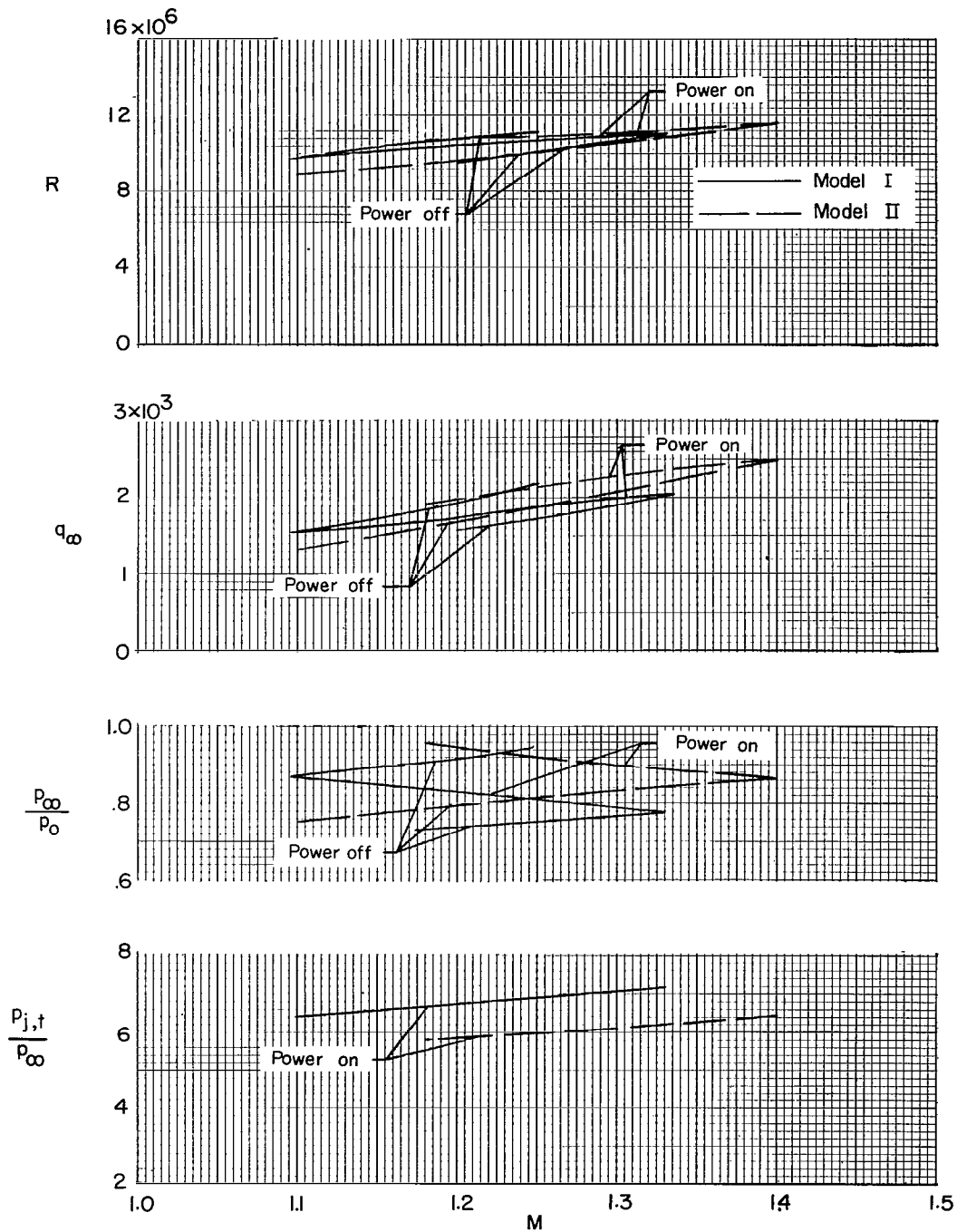


(a) Wing 50-percent-chord loading.



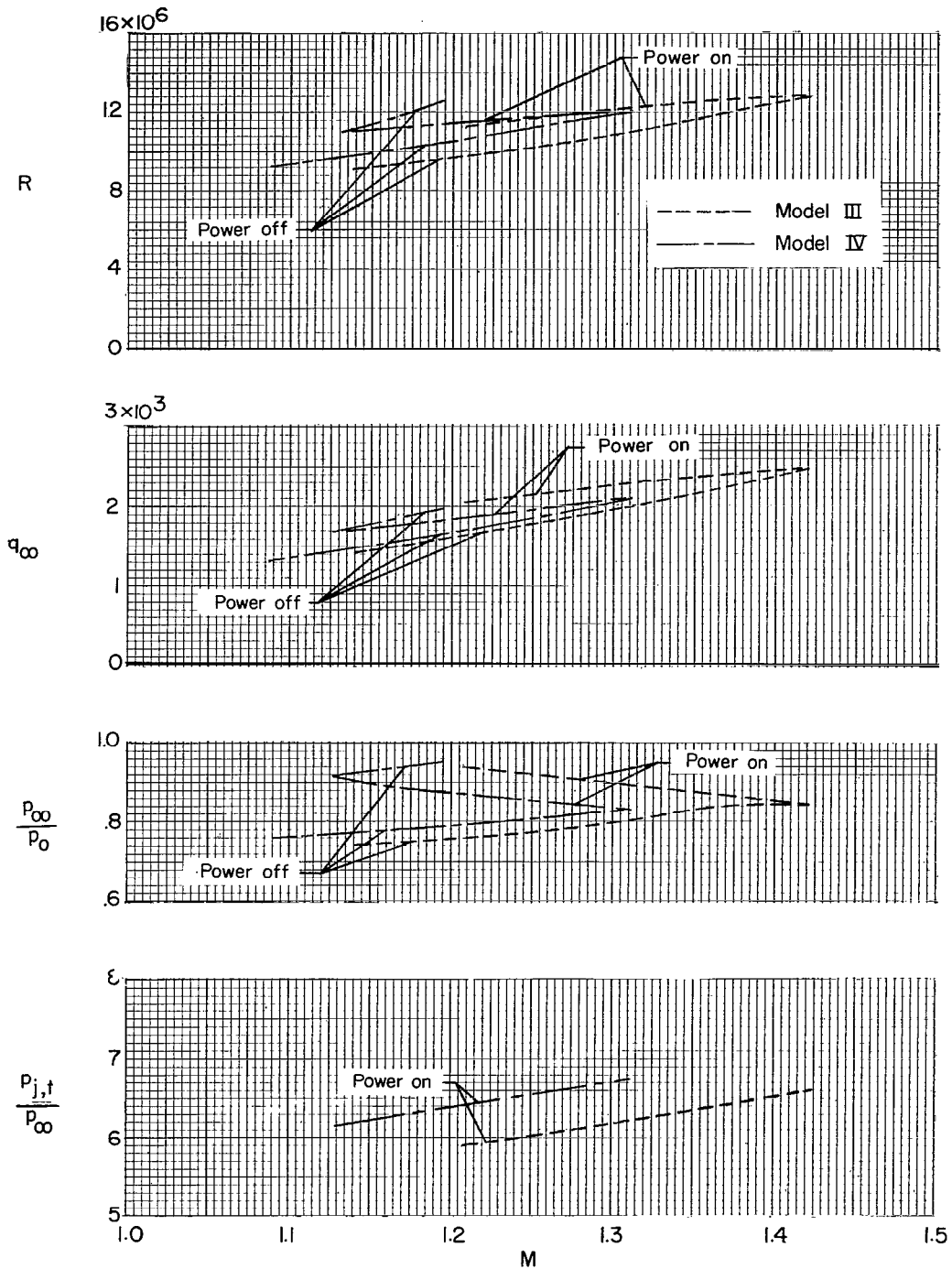
(b) Wing 25-percent-chord loading.

Figure 7.- Influence coefficients of twist in the free-stream direction per unit load applied at various stations along the span.



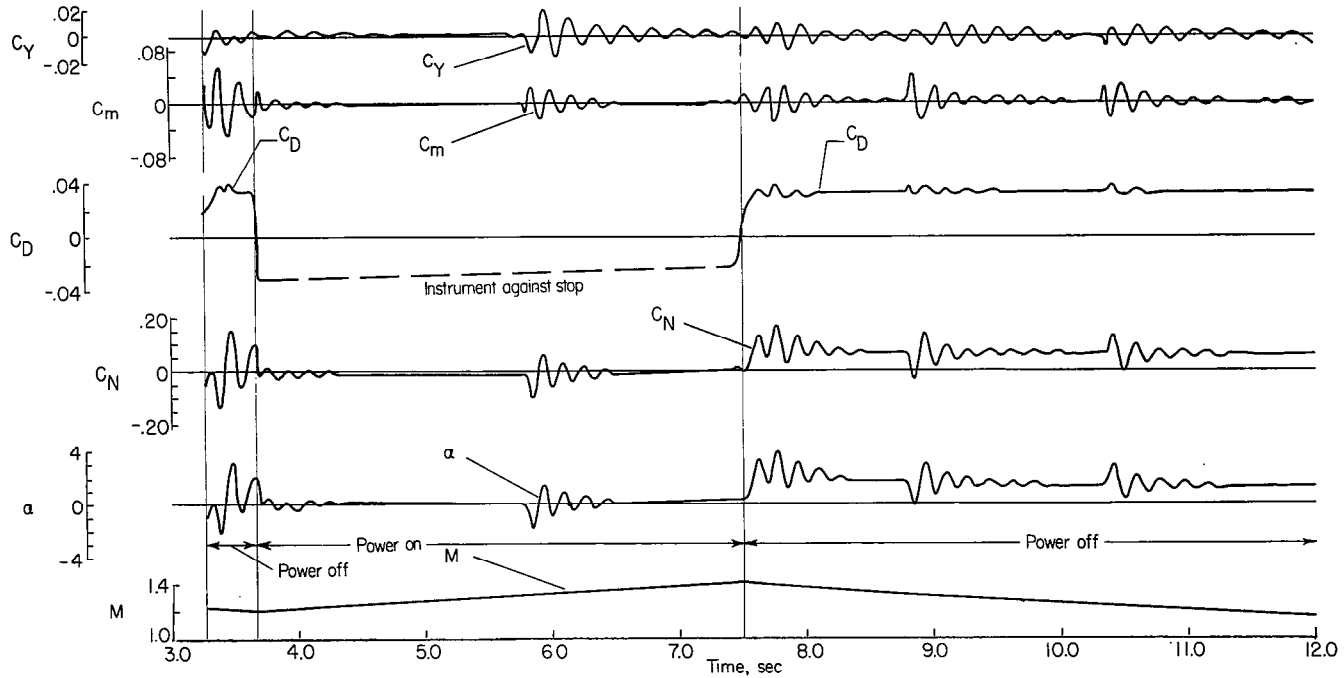
(a) Models I and II.

Figure 8.- Test conditions.



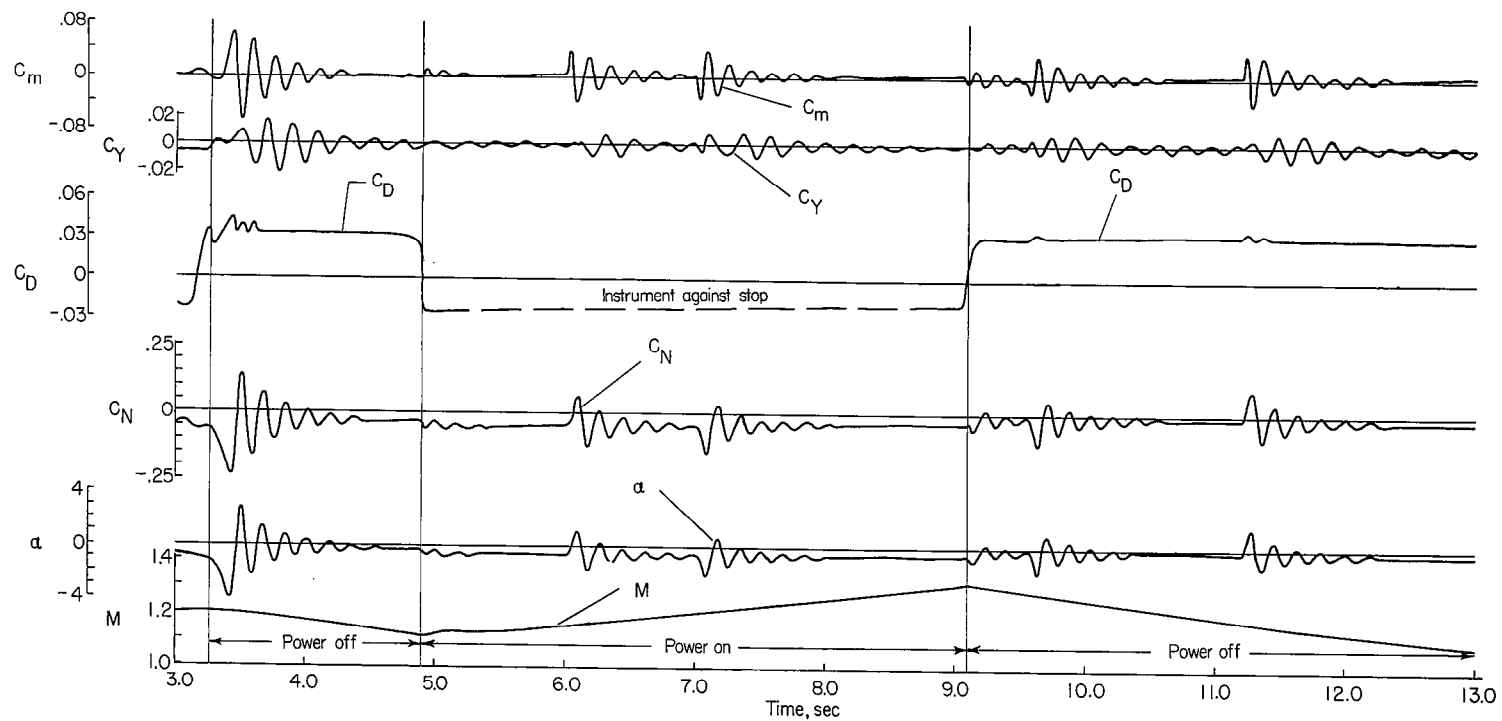
(b) Models III and IV.

Figure 8.- Concluded.



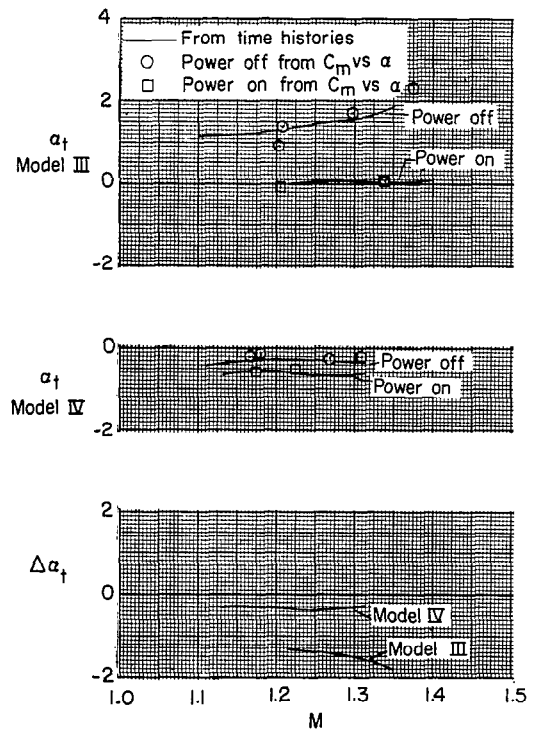
(a) Model III.

Figure 9.- Partial time histories of the basic quantities.

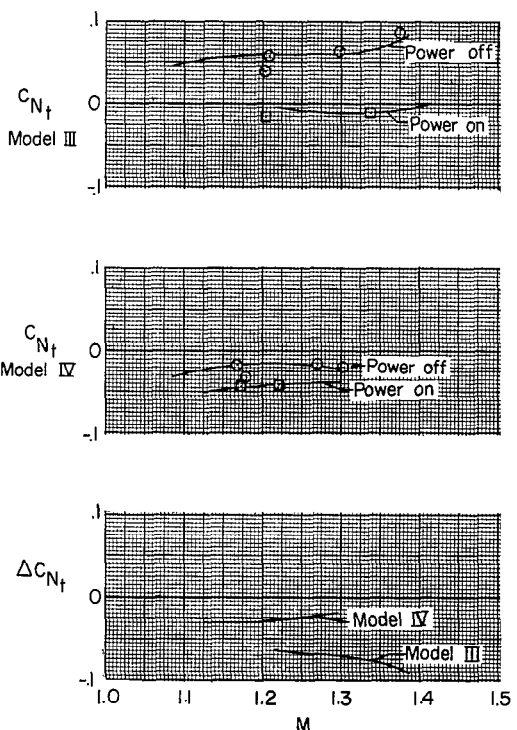


(b) Model IV.

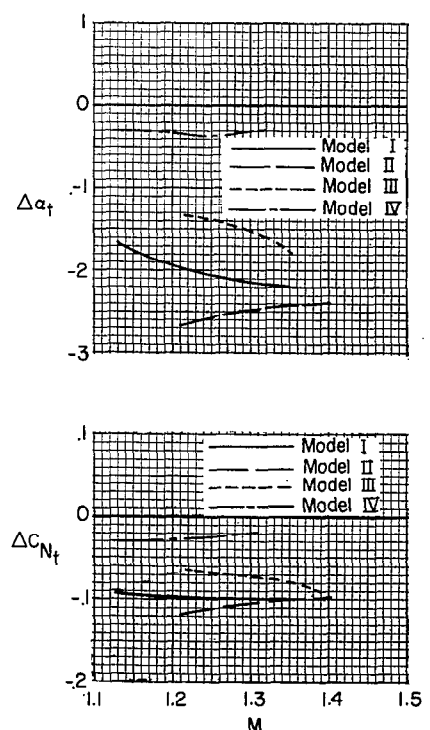
Figure 9.- Concluded.



(a) α_t for models III and IV.

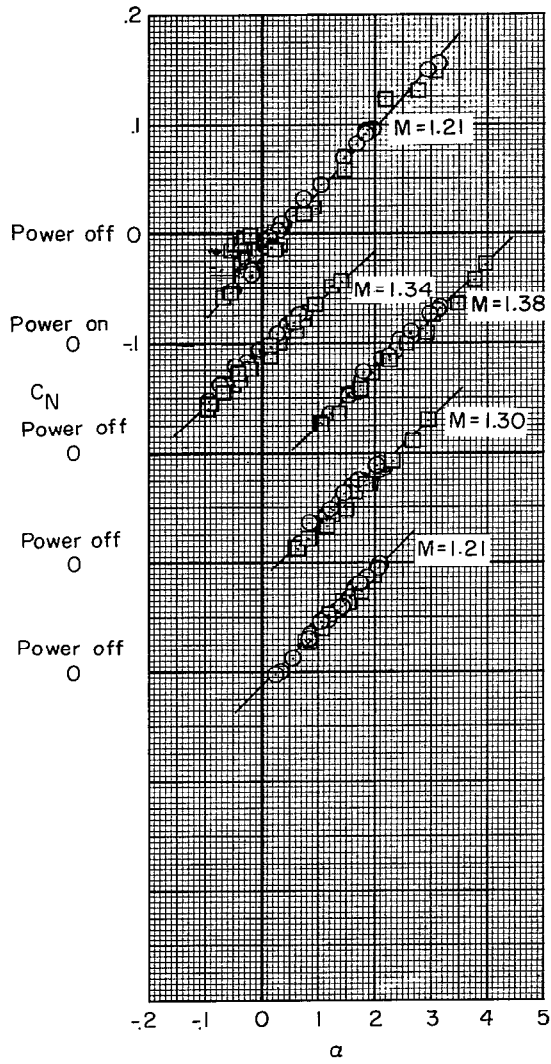


(b) C_{N_t} for models III and IV.

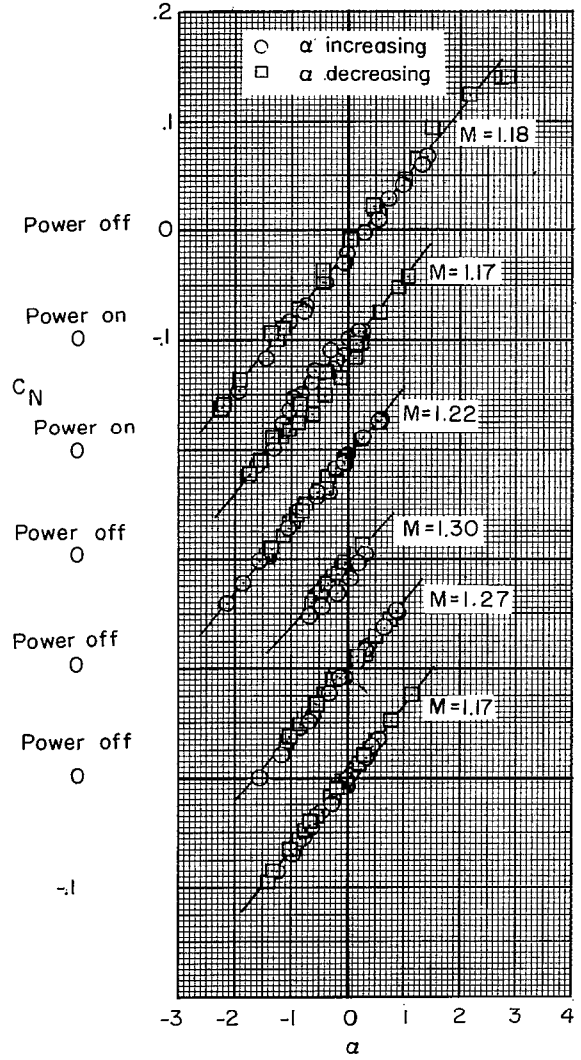


(c) Trim summary for all models.

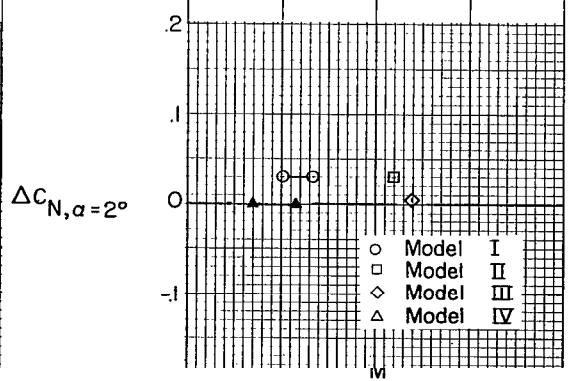
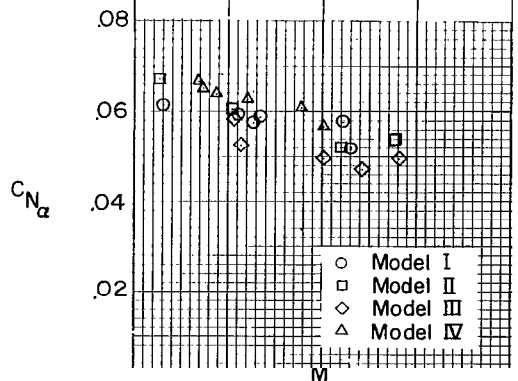
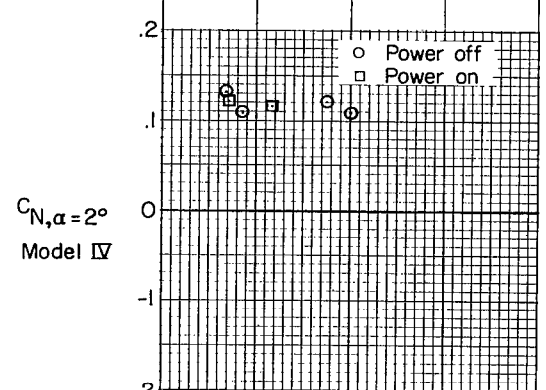
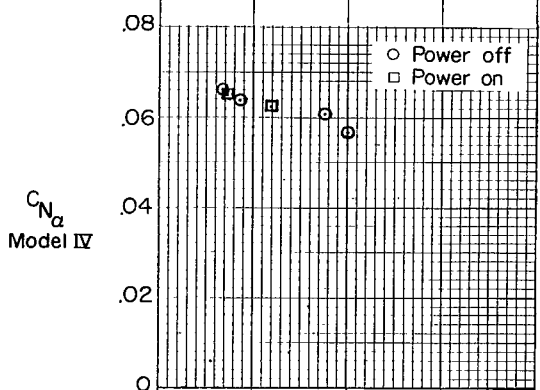
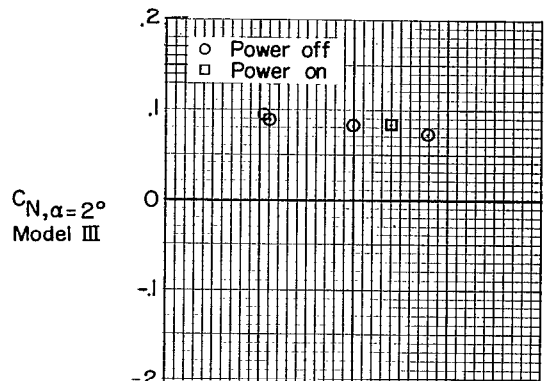
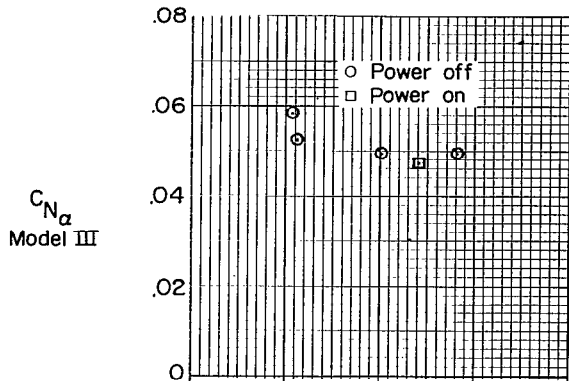
Figure 10.- Trim characteristics.



(a) Model III



(h) Model IV.



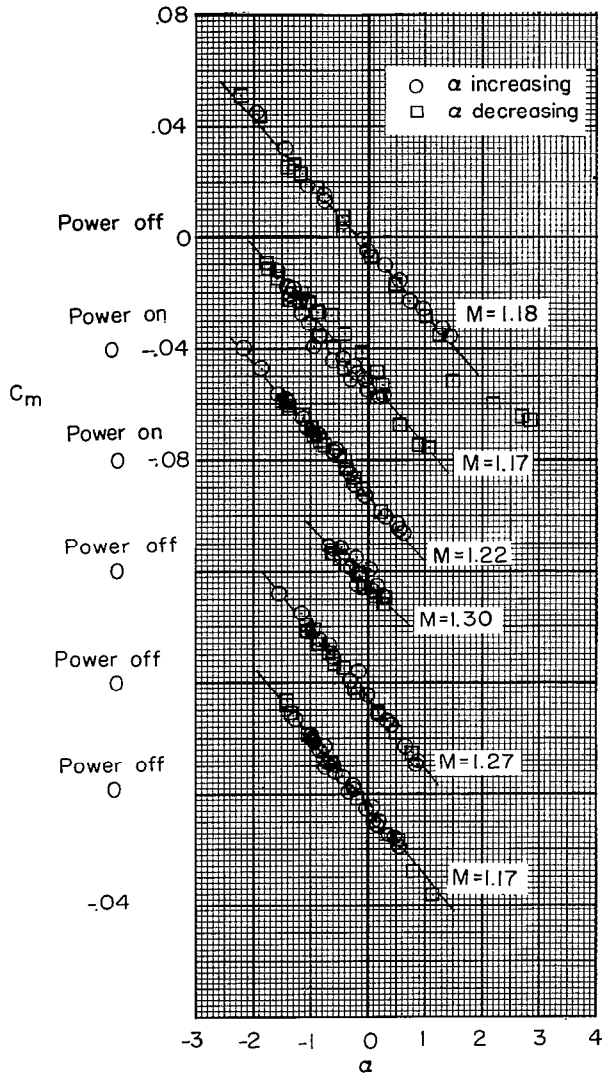
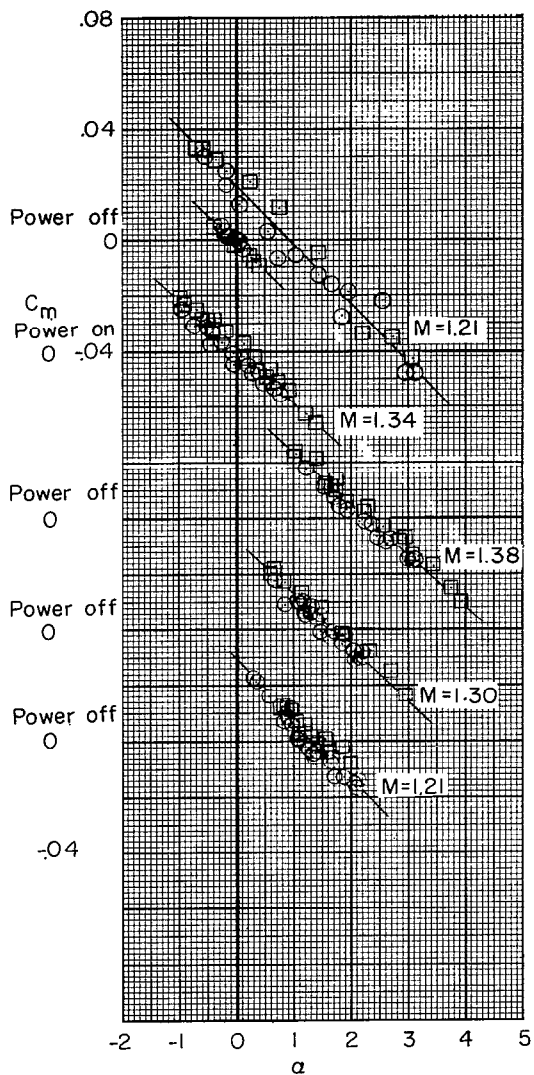
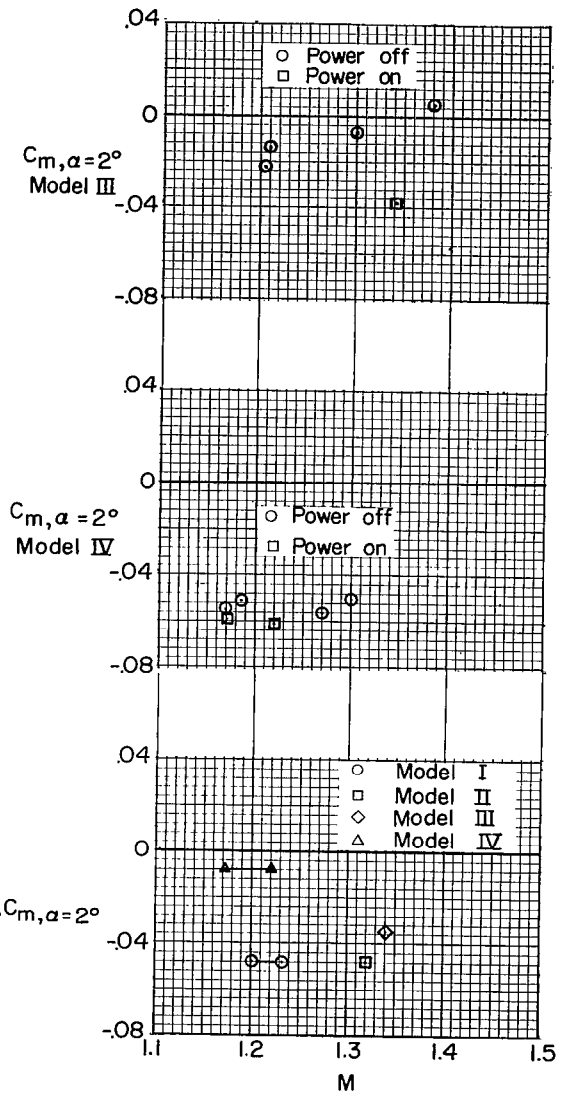
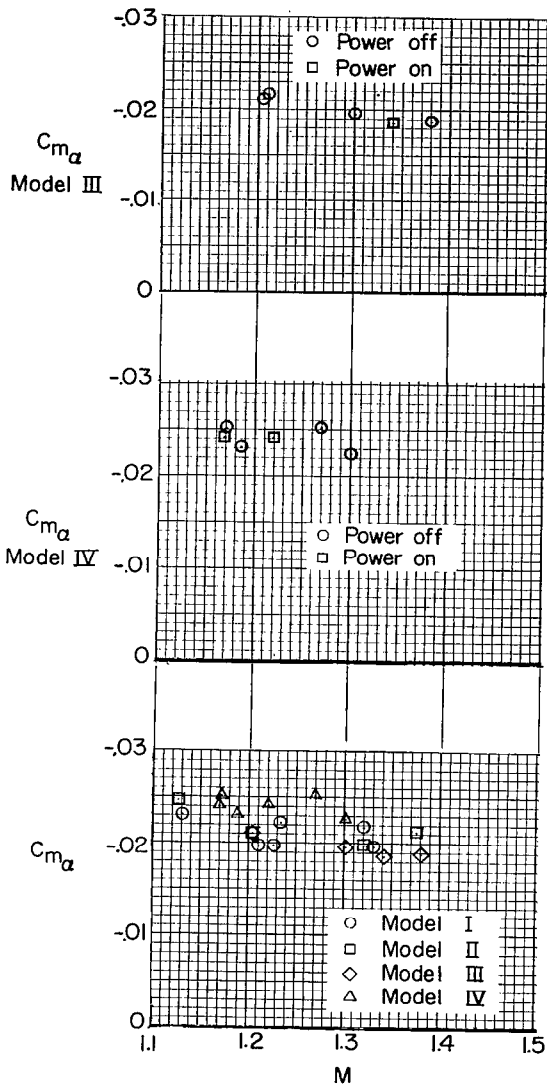


FIG. 17. Data obtained from present tests.



(a) Comparison of experimental results with theoretical results for $C_{m\alpha}$ and $\Delta C_{m,\alpha=2^\circ}$ vs Mach number (M).

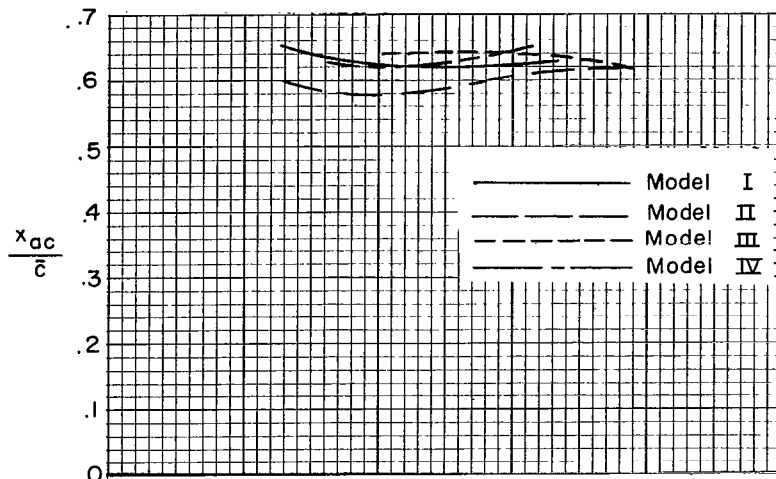
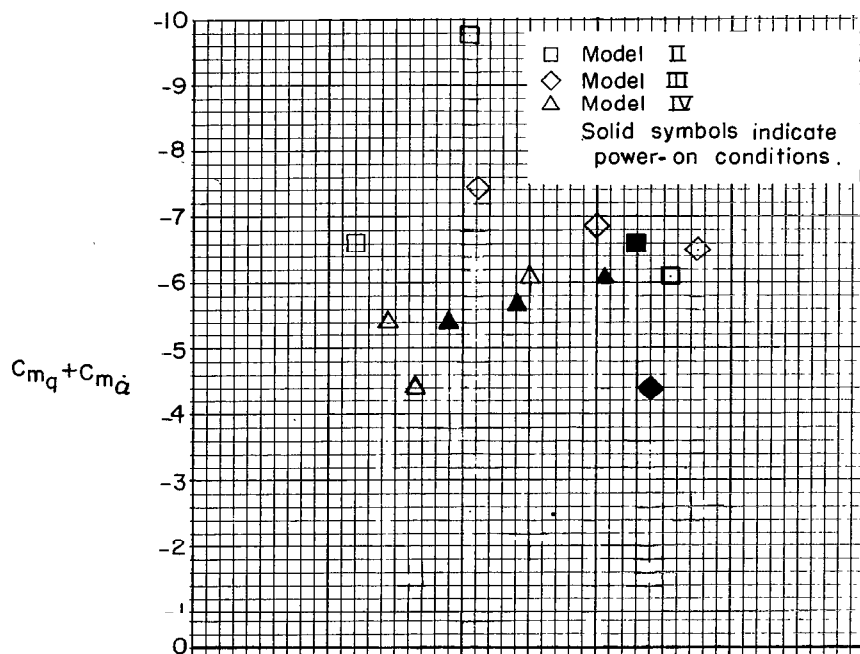


Figure 15.- Aerodynamic-center location for all models.



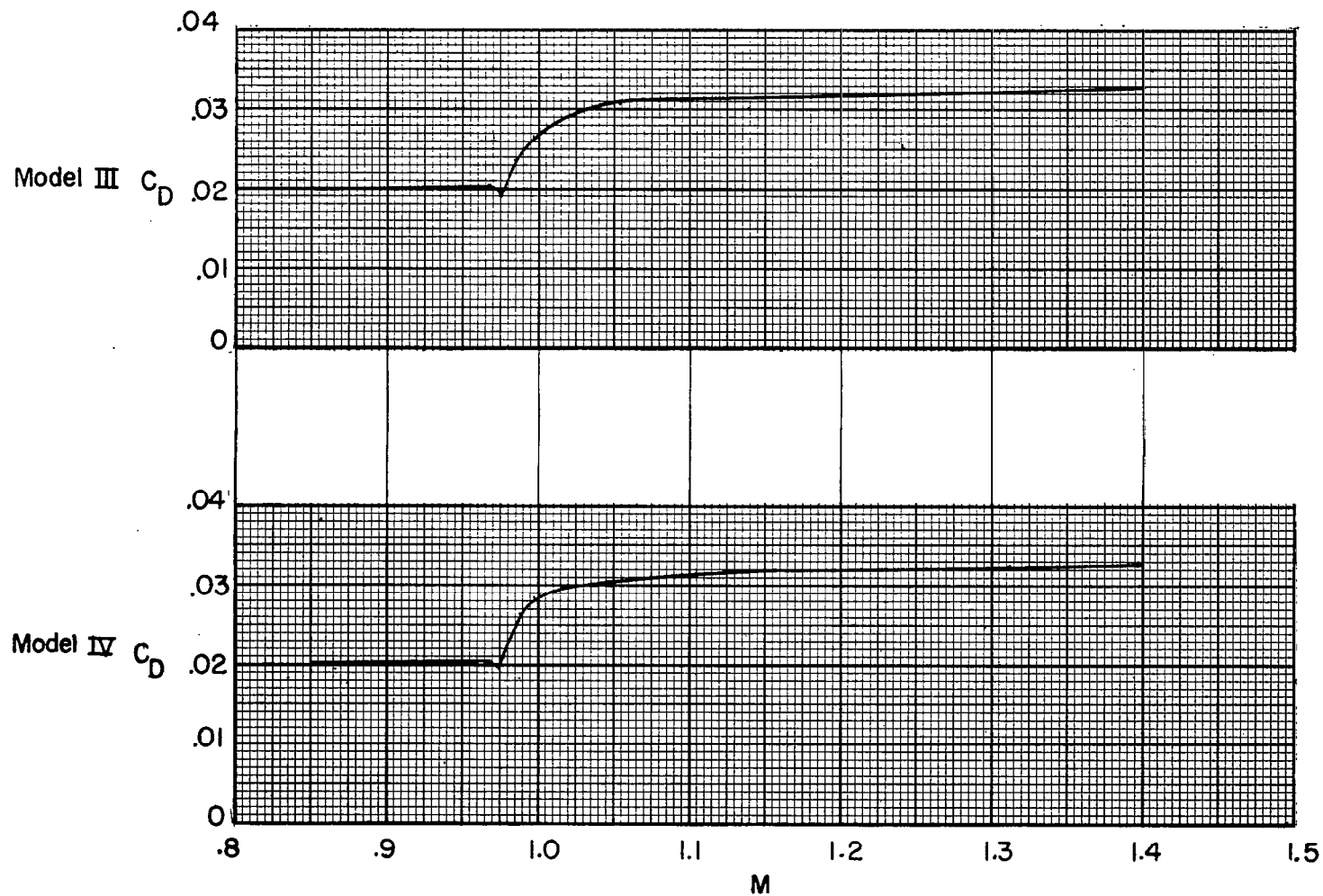
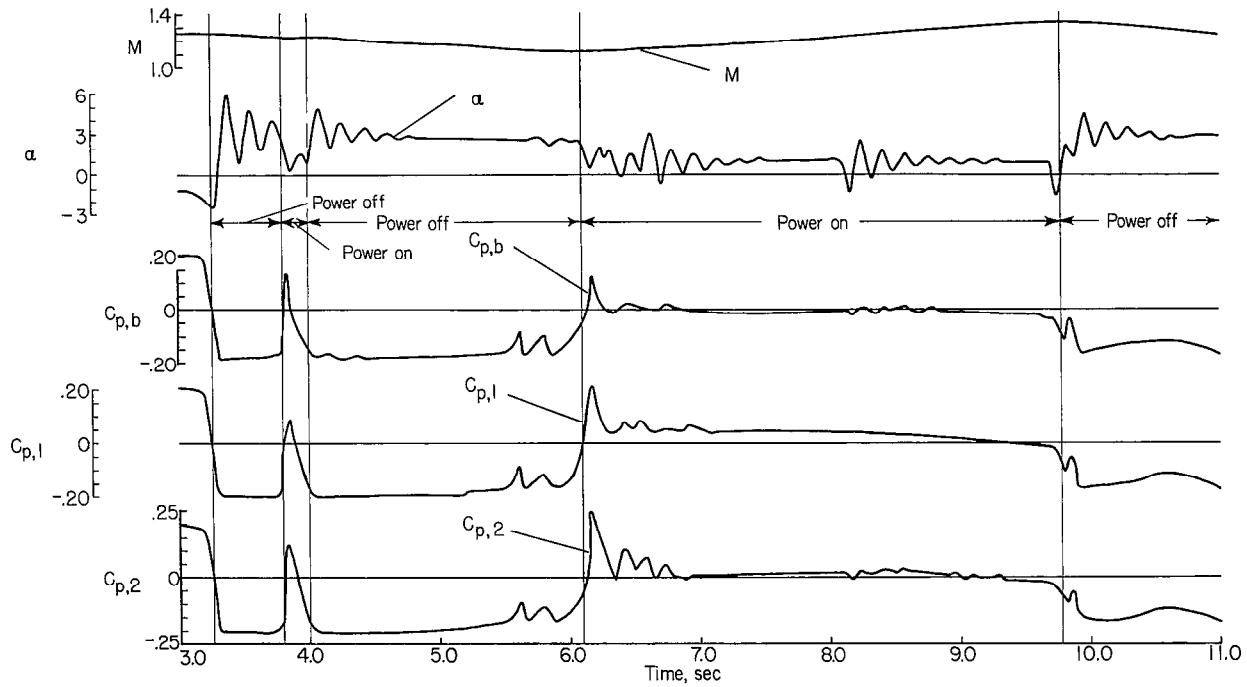
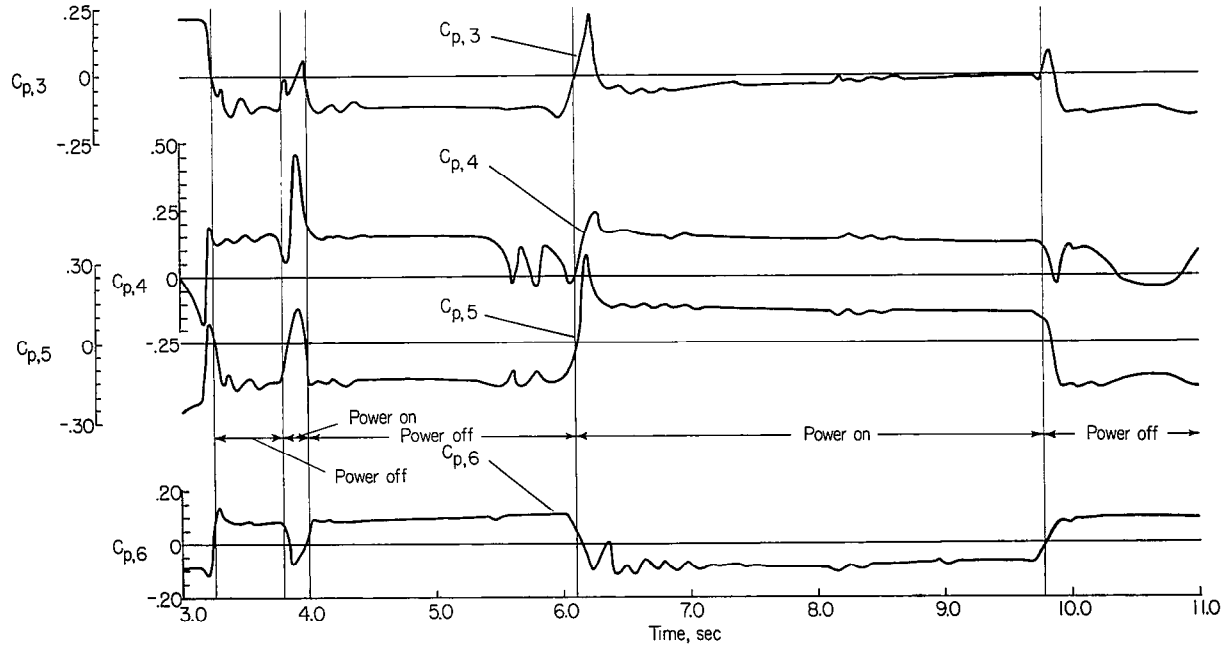


Figure 17.- Variation of trim drag coefficient with Mach number for models III and IV.



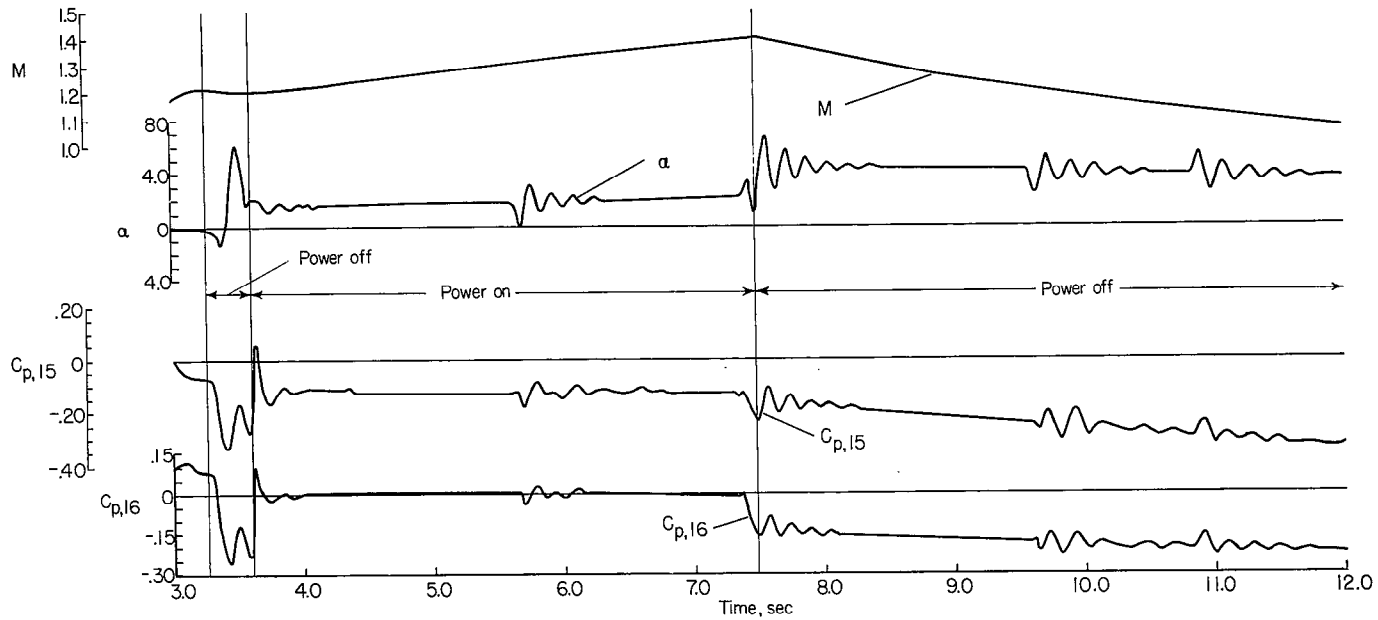
(a) Model I.

Figure 18.- Partial time histories of Mach number, angle of attack, and pressure coefficients.



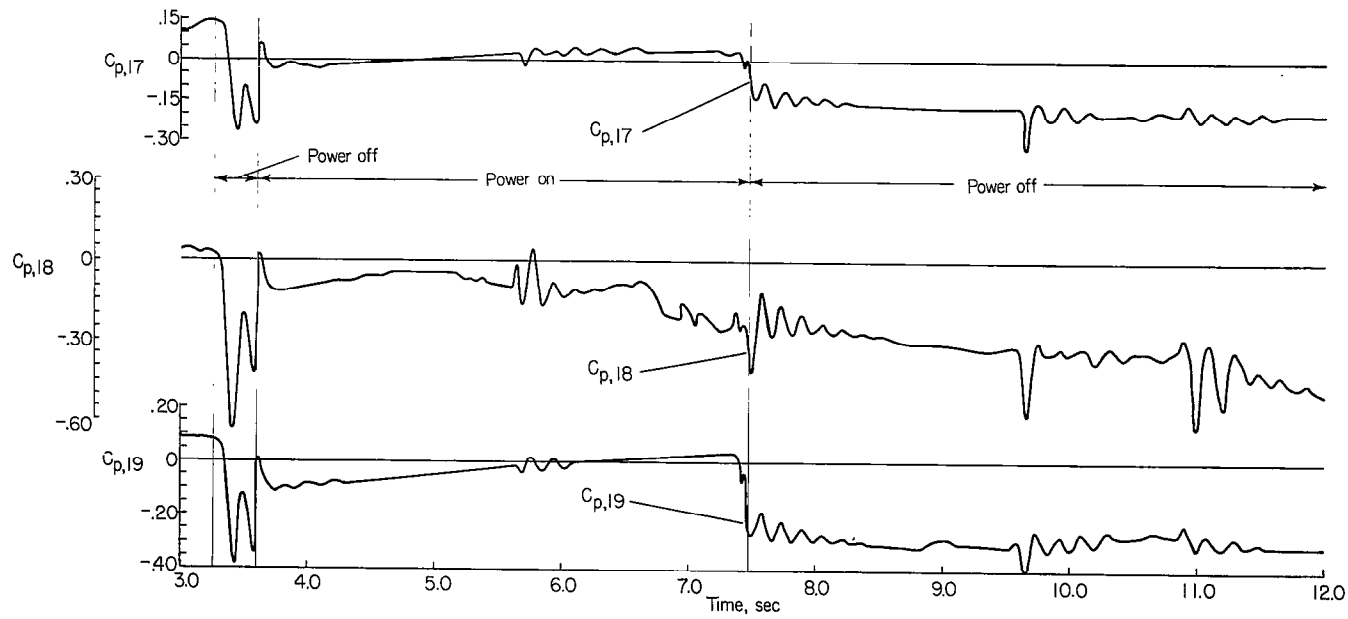
(b) Model I concluded.

Figure 18.- Continued.



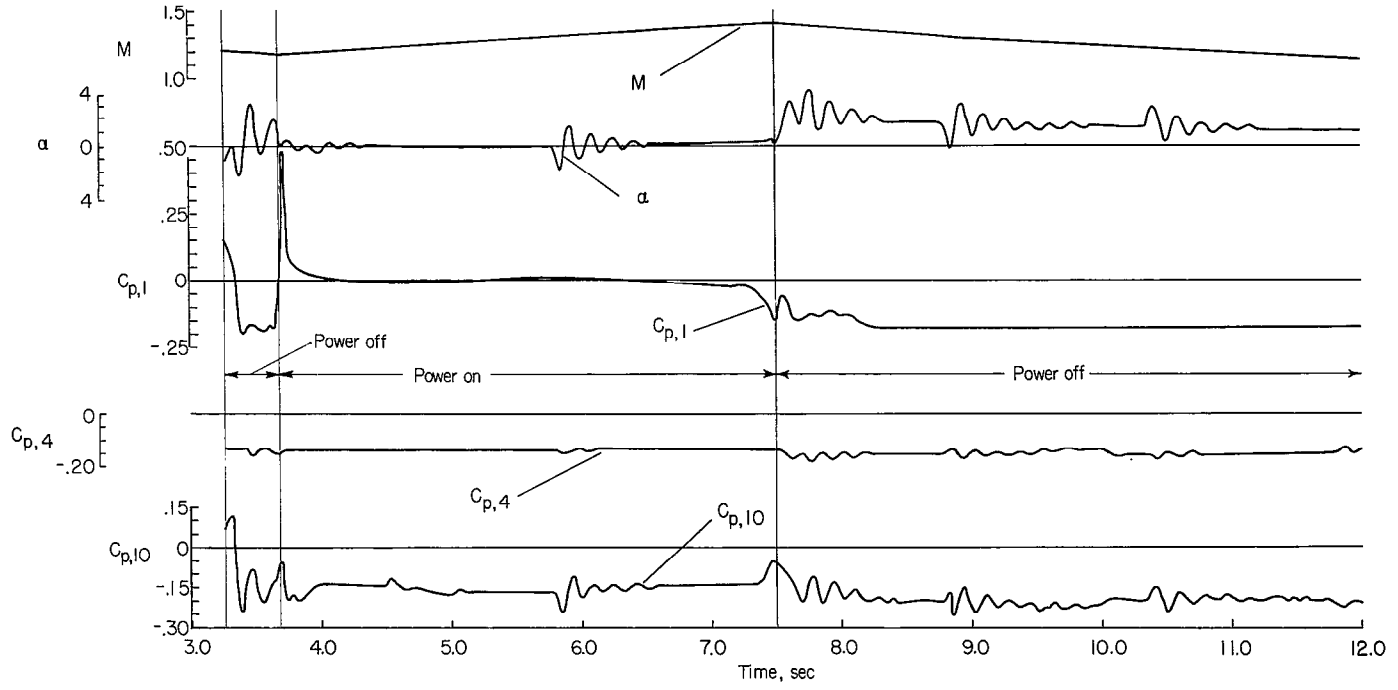
(c) Model II.

Figure 18.- Continued.



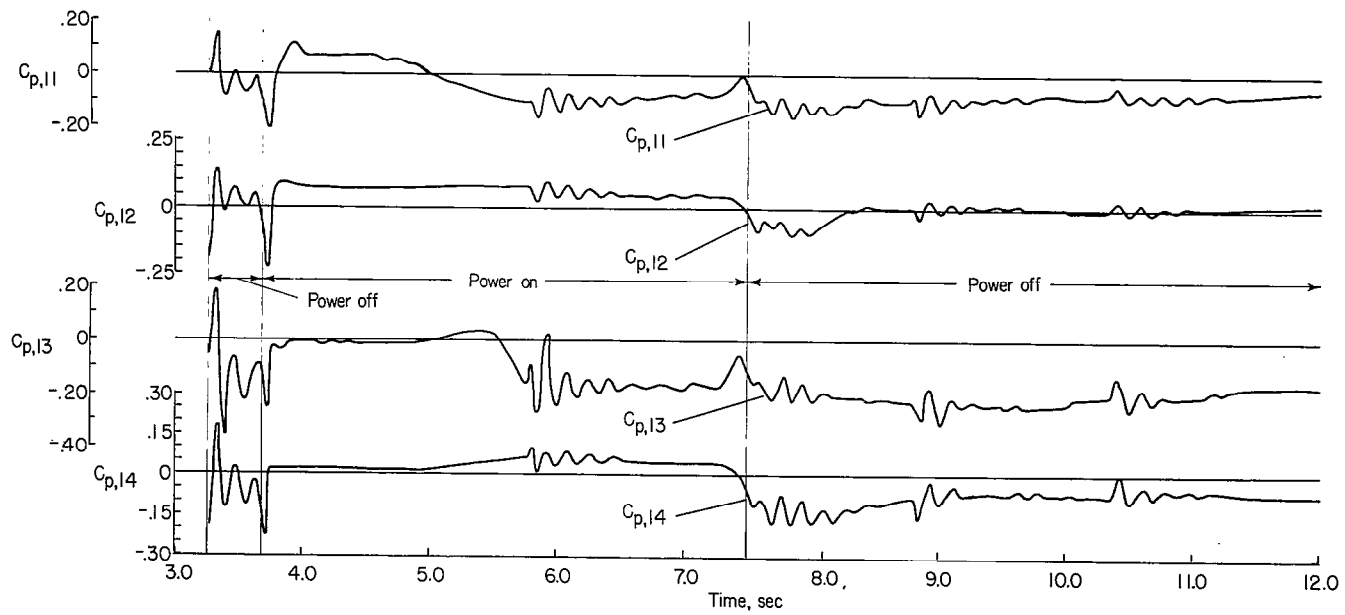
(d) Model II concluded.

Figure 18.- Continued.



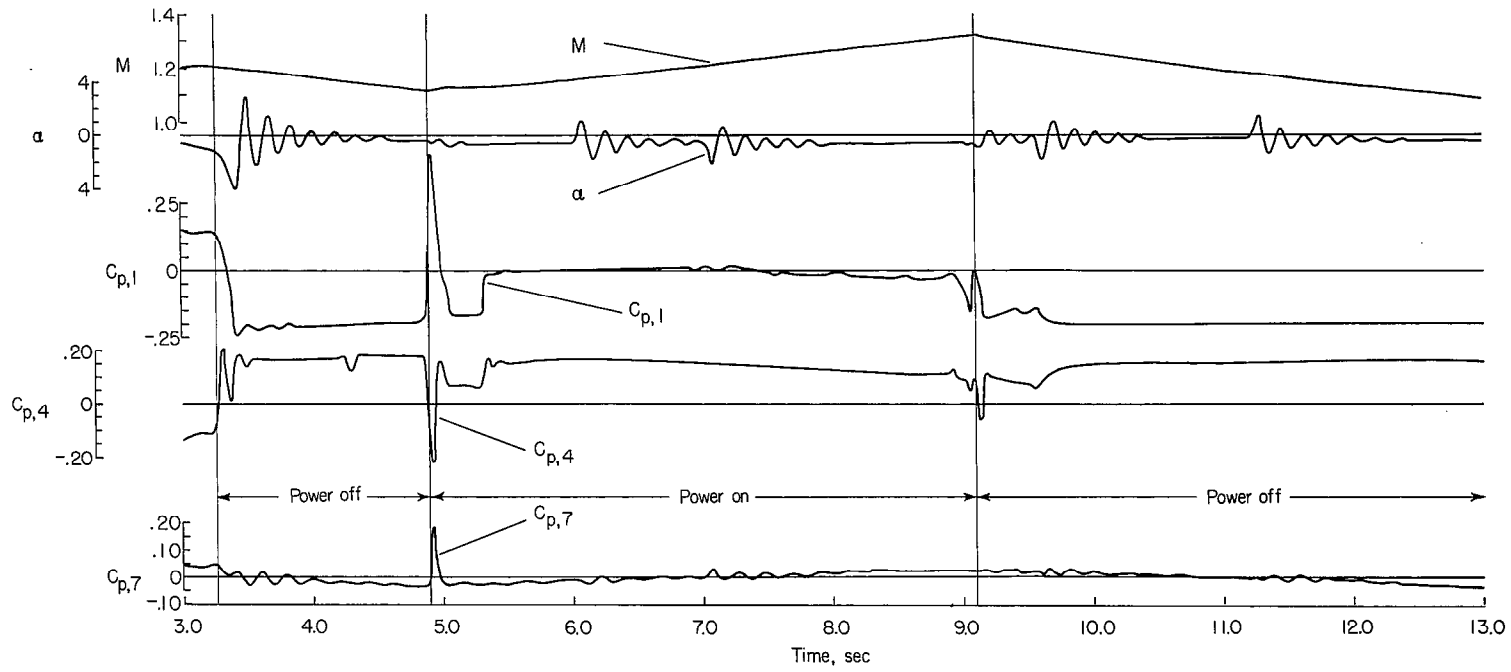
(e) Model III.

Figure 18.- Continued.



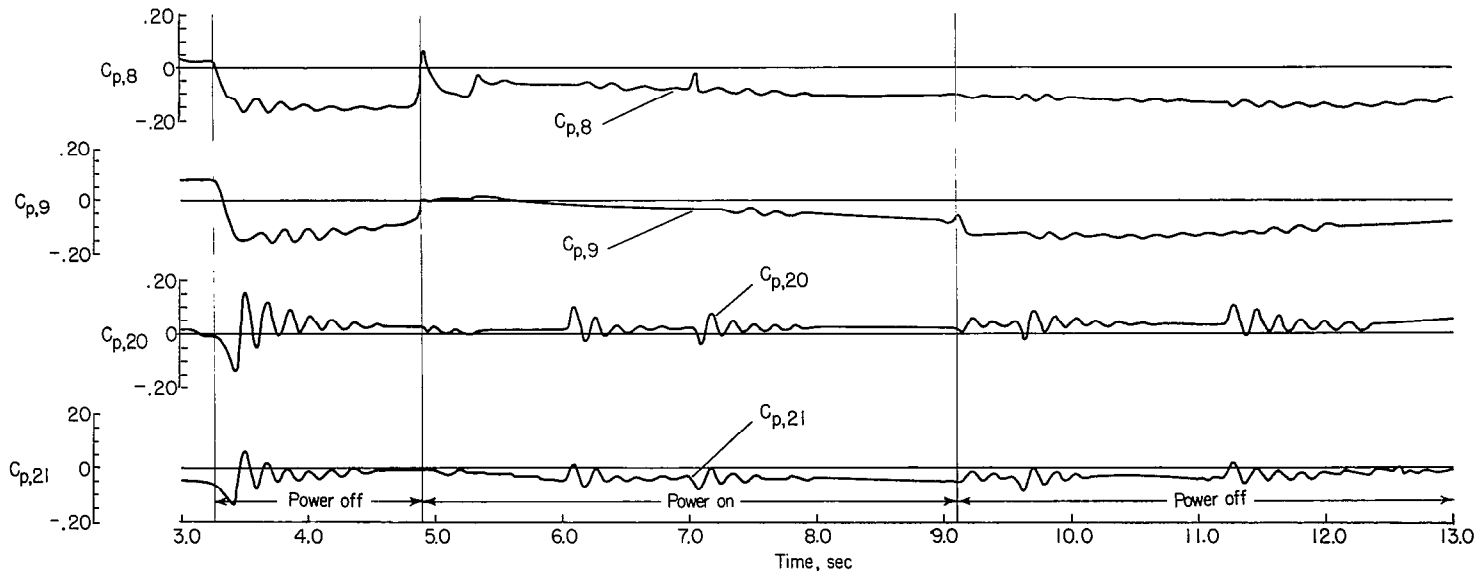
(f) Model III concluded.

Figure 18.- Continued.



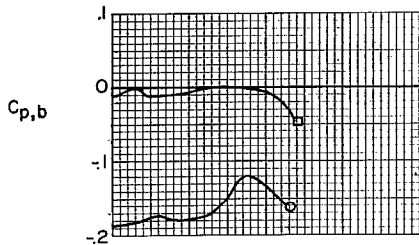
(g) Model IV.

Figure 18.- Continued.

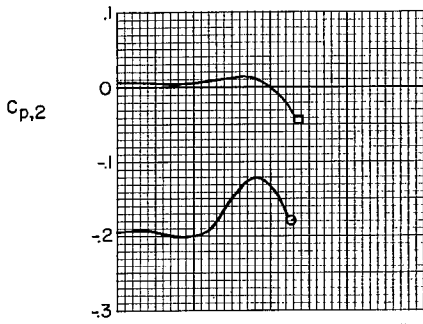


(h) Model IV concluded.

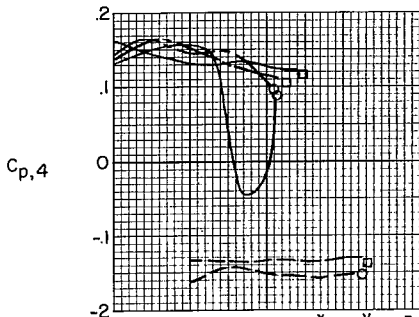
Figure 18.- Concluded.



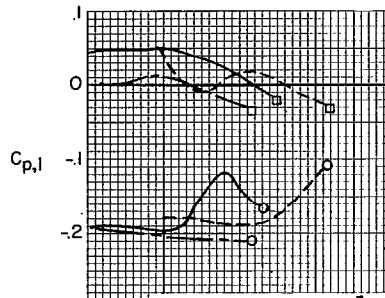
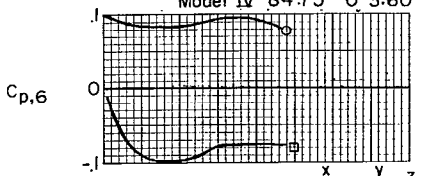
Base pressure x y z
77.00 0 1.85



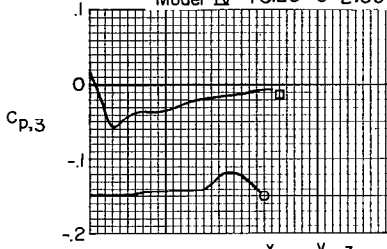
Orifice no. 2 Model I x y z
78.50 1.00 2.35



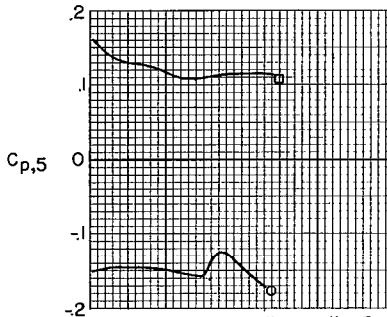
Orifice no. 4 Model I x y z
Model III 84.90 0 3.65
Model IV 84.75 0 3.60



Orifice no. 1 Model I x y z
Model III 78.50 0 2.35
Model IV 78.20 0 2.30



Orifice no. 3 Model I x y z
81.70 0 3.00

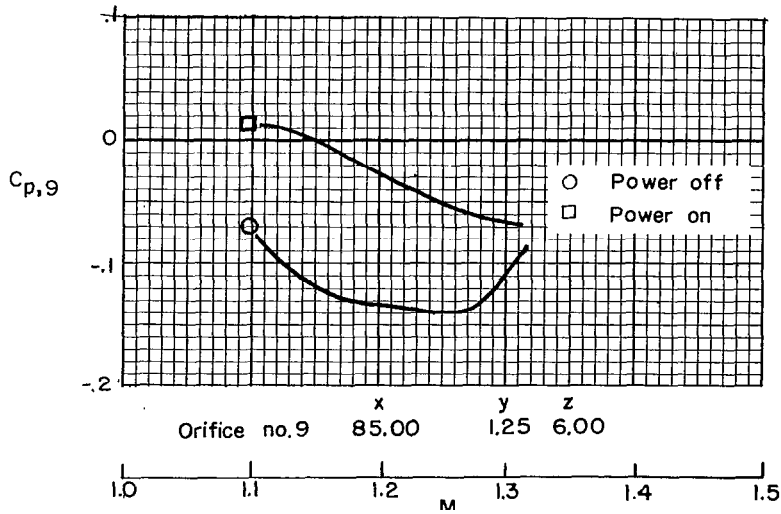
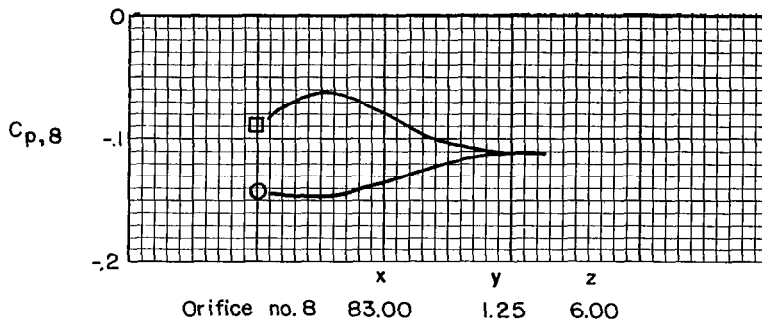
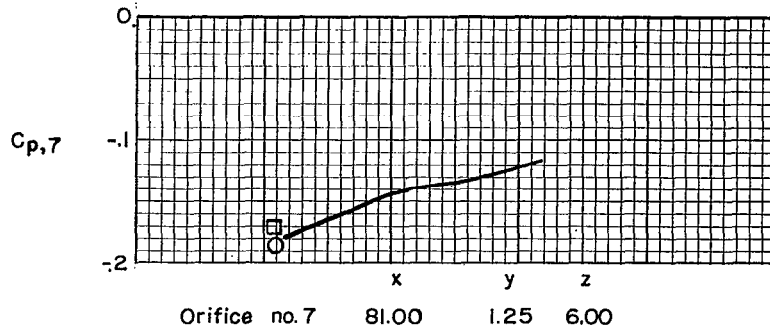


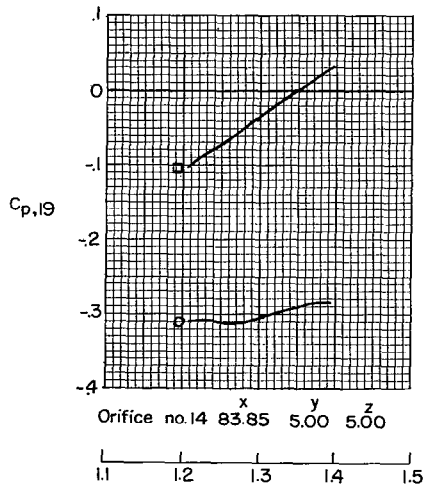
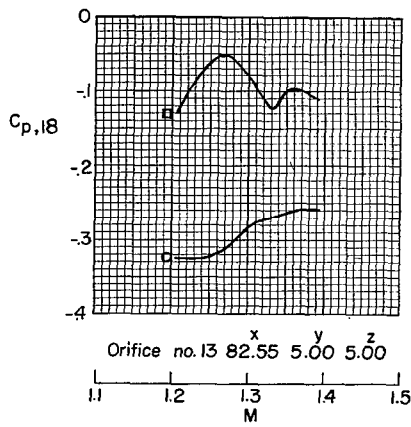
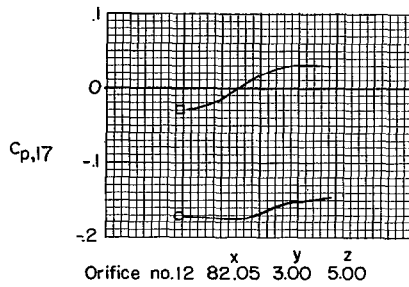
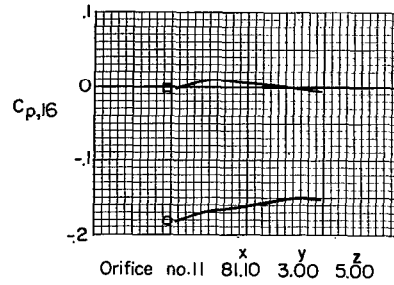
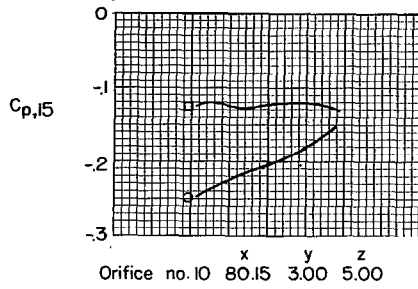
Orifice no. 5 Model I x y z
85.05 1.00 3.70

1.1 1.2 1.3 1.4 1.5
M

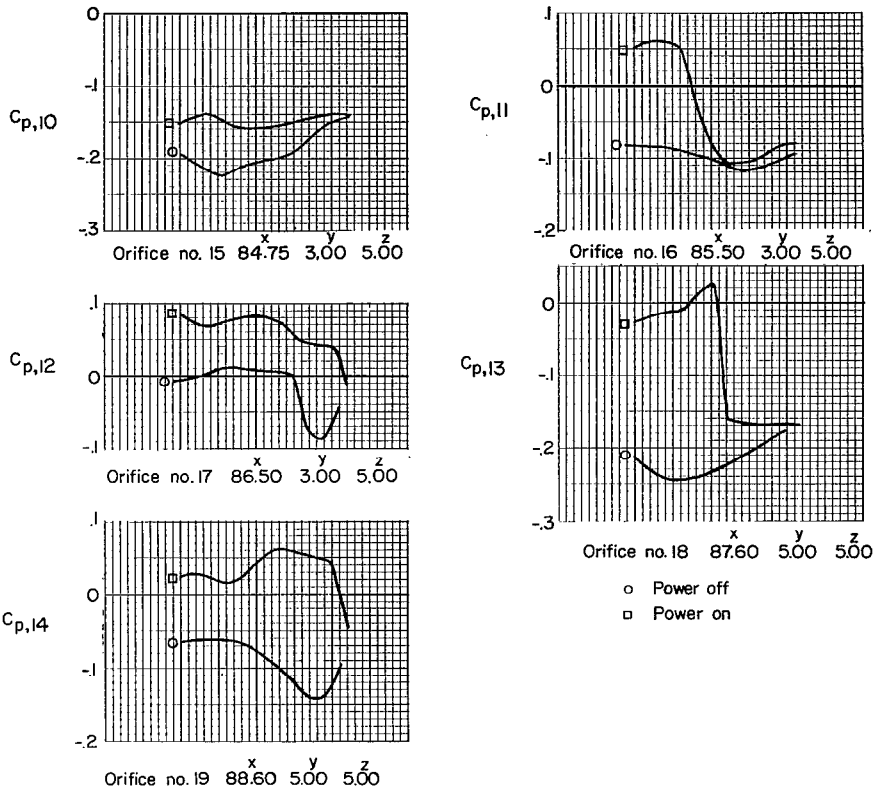
— Model I
- - - Model III
- · - Model IV

○ Power off
□ Power on

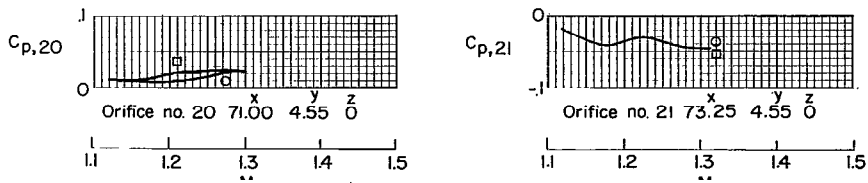




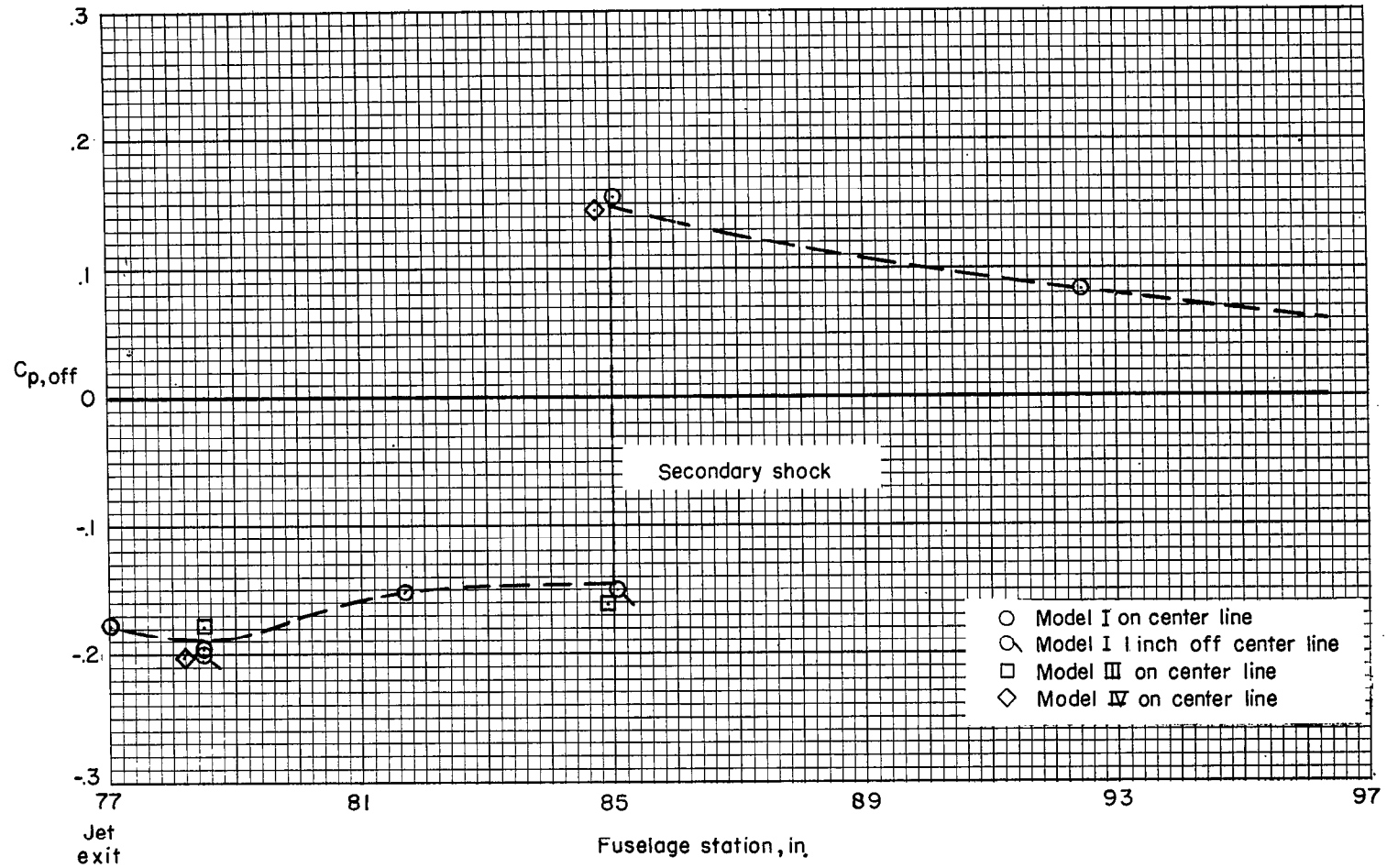
○ Power off
 □ Power on



(d) Trim pressure coefficient on stabilizer of model III. Dimensions are in inches.

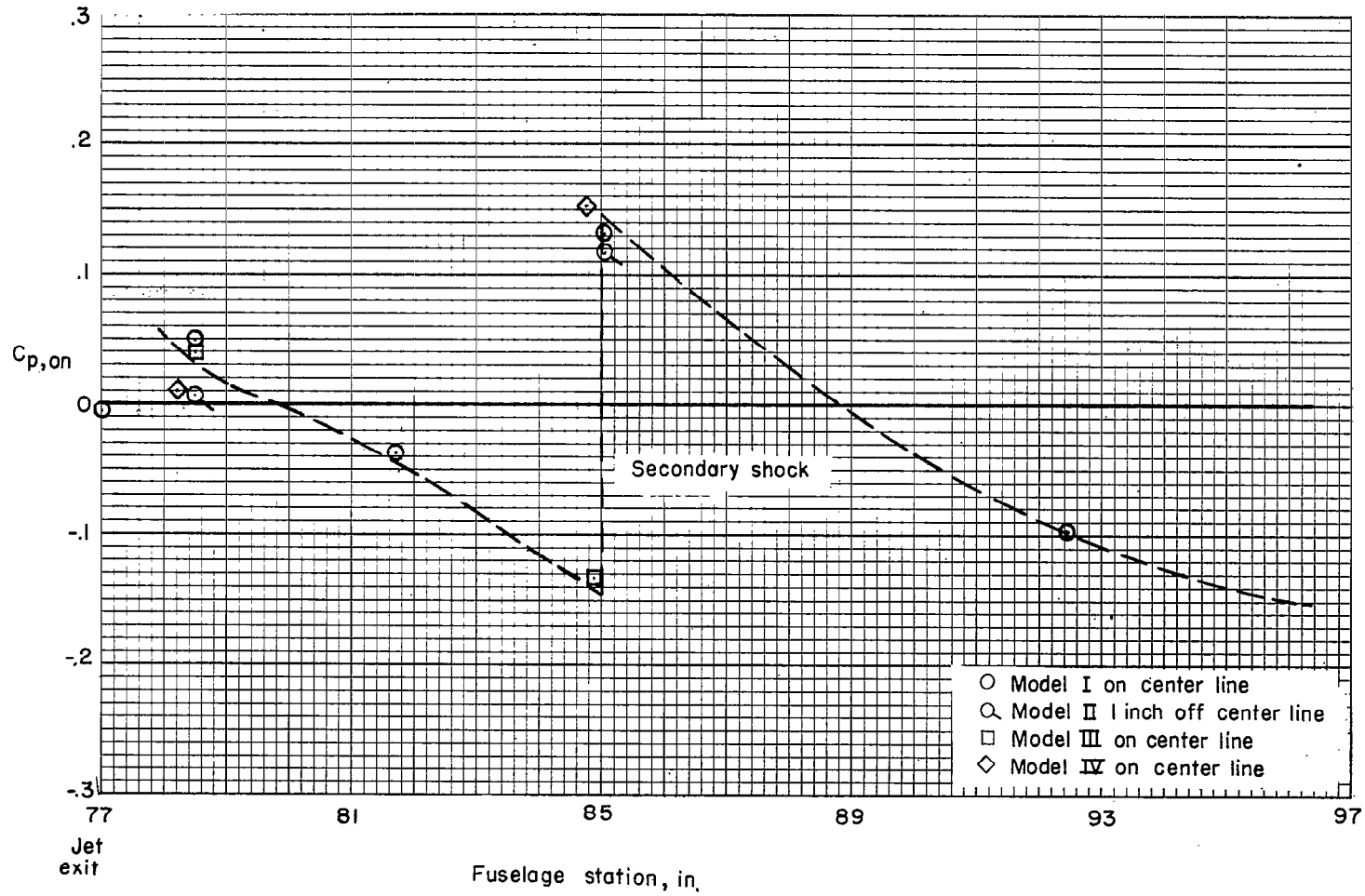


(e) Trim pressure coefficient on stabilizer of model IV. Dimensions are in inches.



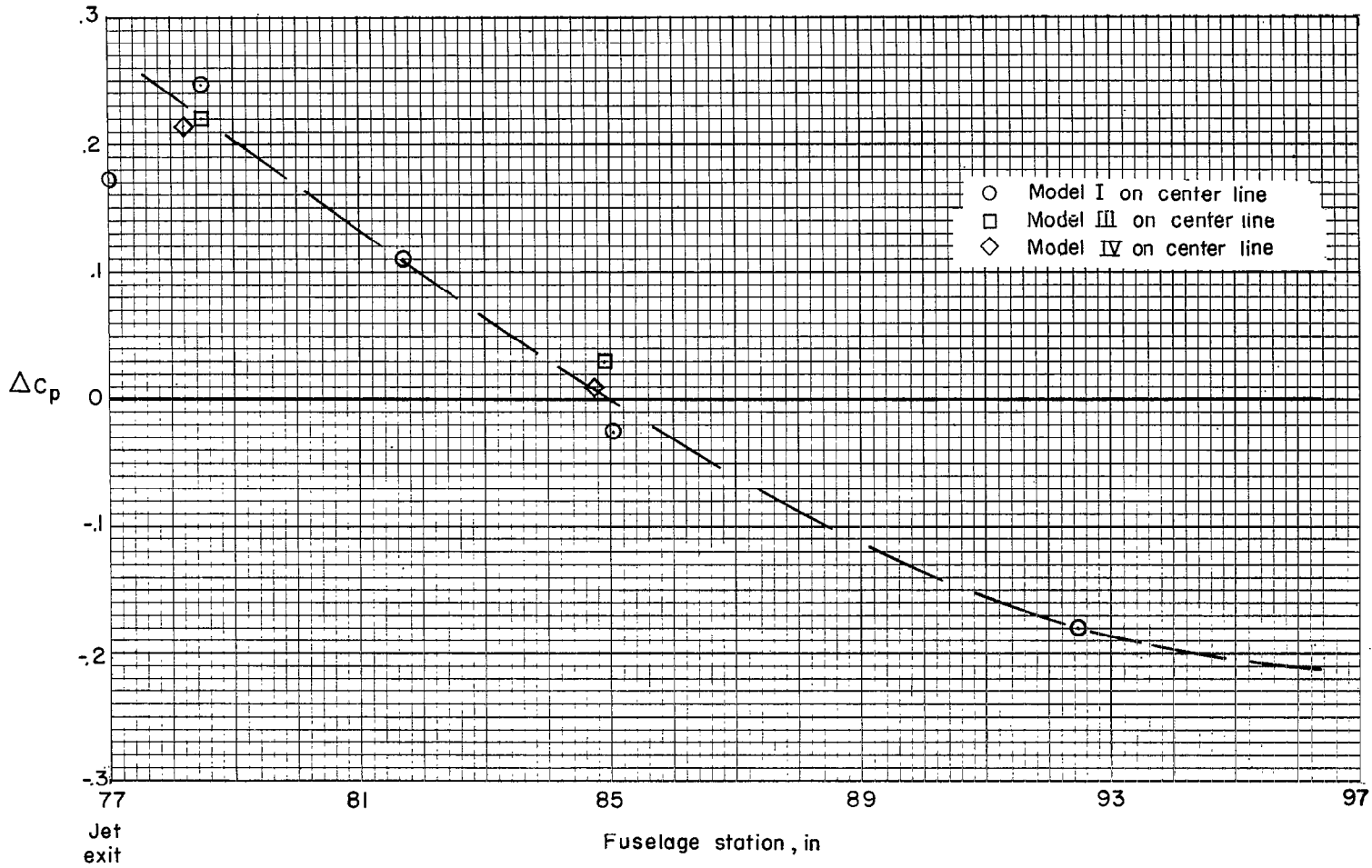
(a) Power-off pressure distribution along the boom center line. $M = 1.2$.

Figure 20.- Boom pressure distribution.



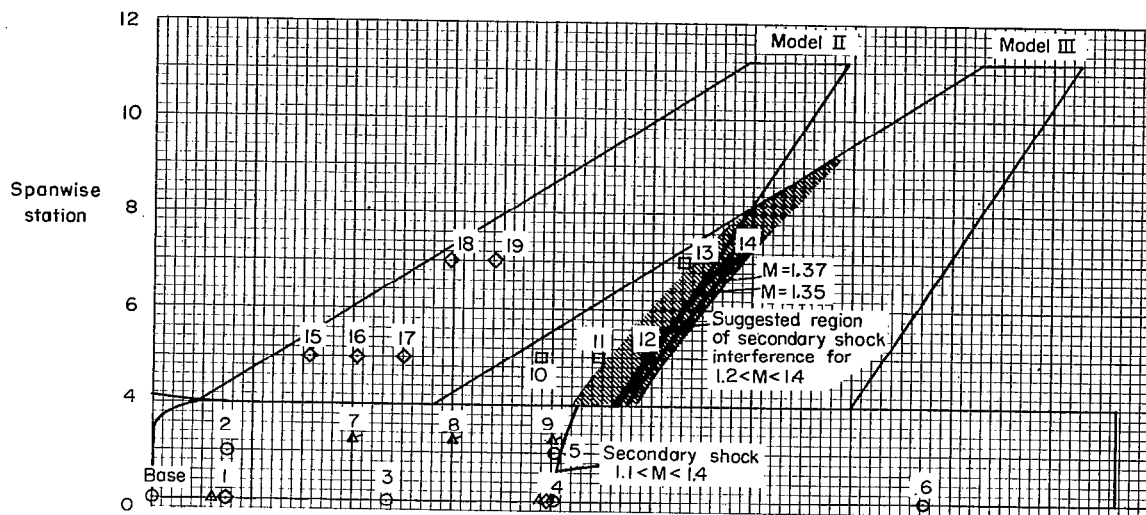
(b) Power-on pressure distribution along the boom center line. $M = 1.2$.

Figure 20.- Continued.



(c) Increment in boom pressure coefficient along the boom center line due to power. $M = 1.2$.

Figure 20.- Concluded.



Power off

