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REVISED TABLES OF AIRSPEED, ALTITUDE,

AND MACH NUMBER PRESENTED IN

THE INTERNATIONAL SYSTEM OF UNITS

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REVISED TABLES OF AIRSPEED, ALTITUDE,

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PREFACE

In 1968, the U.S. Congress directed the Secretary of Commerce to undertake the U.S. Metric Study to evaluate the impact on America of the metric trend and to consider alternatives for national policy. The conclusion of this study was that the United States should change to the metric system. A coordinated 10-year national program for conversion by a target date set by the U.S. Congress was recommended.

In line with this program, previously published pressure-airspeed tables have been revised to the atmospheric properties of the U.S. Standard Atmosphere of 1962 and the results were converted to the International System of Units. Atmospheric properties such as temperature, density, and speed of sound are also listed.

INTRODUCTION

Because inception of a national program to implement the International System of Units (SI) appears to be inevitable and imminent, the tables of airspeed, altitude, and Mach number prepared by Livingston and Gracey (ref. 1) to serve for airspeed meter and altimeter calibrations and for the conversion of flight measurements of these quantities to related parameters – Mach number, true airspeed, equivalent airspeed, etc. – have been revised to the International System of Units (SI). Tables of airspeed in knots are also included because of the significance of this quantity in navigation. In addition, the data in the altitude tables have been revised to the U.S. Standard Atmosphere of 1962. (See ref. 2.) The latter data reflect increased knowledge of the higher atmosphere and more precise determination of basic quantities, including the redefinition of the absolute thermodynamic temperature scale by the Tenth General Conference on Weights and Measures in 1954. The U.S. Standard Atmosphere, 1962, corresponds to the International Civil Aviation Organization (ICAO) Standard Atmosphere up to 20 kilometers (geopotential altitude). A table of conversion factors for various pressure units is presented in SI Units.

SYMBOLS

a	speed of sound in ambient air
g	acceleration of gravity
H	geopotential altitude
L'_M	gradient of T_M with H
M	free-stream Mach number; molecular weight in definition of W
M_l	local Mach number
p	free-stream static pressure
q_c	impact pressure
R	universal gas constant
T	temperature

T_M	molecular scale temperature (as defined in ref. 2)
T_m	measured temperature
V	true airspeed
V_c	calibrated airspeed
W	mean molecular weight of air (denoted by symbol M in ref. 2)
Z	geometric altitude
γ	specific heat ratio
ρ	density of air
η	recovery factor of air-temperature sensor

Subscripts:

b	base or reference level
o	sea-level value

DISCUSSION OF SI SYSTEM

The SI system is constructed from seven base units for independent quantities plus two units for plane and solid angle. The SI units for plane and solid angle are the radian (rad) and the steradian (sr), respectively. Units expressed as combinations of these units are called derived units. (The tables in this section are from ref. 3.) The seven base units are

Physical quantity	Name of unit	Symbol
Length	meter	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Special names and symbols for pertinent SI derived units are

Physical quantity	Name of SI unit	Symbol for SI unit	Definition of SI unit
Force	newton	N	$\text{kg}\cdot\text{m}\cdot\text{s}^{-2}$
Pressure	pascal	Pa	$\text{N}\cdot\text{m}^{-2}$

Although not an SI unit, a bar, a commonly used unit of pressure, is a multiple of an SI unit:

$$1 \text{ bar} = 10^5 \text{ N}\cdot\text{m}^{-2} = 10^5 \text{ pascals}$$

Prefixes used for multiples and submultiples of SI units are

Factor by which unit is multiplied	Prefix	Symbol
10^{12}	tera	T
10^9	giga	G
10^6	mega	M
10^3	kilo	k
10^2	hecto	h
10	deka	da
10^{-1}	deci	d
10^{-2}	centi	c
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

PHYSICAL CONSTANTS AND SEA-LEVEL ATMOSPHERIC PROPERTIES

The values of the physical constants and sea-level atmospheric properties used for the computation of the tables given in this paper are as follows:

$$p_0 = 760.0 \text{ millimeters of mercury or } 101\,325.0 \text{ pascals (newtons per square meter)}$$

$$\rho_0 = 1.2250 \text{ kilograms per cubic meter}$$

$$T_o = 288.15 \text{ K}$$

$$W_o = 28.9644 \text{ (dimensionless)}$$

$$\gamma = 1.40 \text{ (dimensionless)}$$

$$a_o = 1225.057 \text{ kilometers per hour or } 661.041 \text{ knots}$$

These values were taken from reference 2.

In this paper, the values of airspeed are given for pressures expressed in units of millimeters of mercury, millibars, and pascals (newtons per square meter). Conversion factors for expressing the tabulated pressures in other units (based on data from refs. 2 and 4) are given in table I.

AIRSPPEED TABLES

Aircraft airspeed indicators are calibrated according to the following equations for standard sea-level conditions:

$$q_c = p_o \left[\left(1 + \frac{\gamma - 1}{2\gamma} \frac{\rho_o}{p_o} V_c^2 \right)^{\frac{\gamma}{\gamma - 1}} - 1 \right] \quad (V_c \leq a_o) \quad (1)$$

and

$$q_c = \frac{1 + \gamma}{2} \left(\frac{V_c}{a_o} \right)^2 p_o \left[\frac{(\gamma + 1)^2}{4\gamma - 2(\gamma - 1) \left(\frac{a_o}{V_c} \right)^2} \right]^{\frac{1}{\gamma - 1}} - p_o \quad (V_c \geq a_o) \quad (2)$$

where the subscript o denotes standard sea-level conditions, V_c is the calibrated airspeed, and q_c is the impact pressure. For standard sea-level conditions, calibrated airspeed is equal to true airspeed. The derivations of equations (1) and (2) are found in reference 1.

Values of impact pressure q_c calculated from equations (1) and (2), in units of millimeters of mercury, newtons per square meter, and millibars are given in tables II to VII for calibrated airspeed V_c from 0 to 1000 knots and from 0 to 1700 kilometers per hour. For the tables with V_c in knots, the nautical mile is defined as 1852 meters.

The reader is reminded that determination of V_c for supersonic speeds from the tabulated data, or by use of equation (2), requires that the measurement of q_c be made in the free stream ahead of any shock waves created by the vehicle.

ALTITUDE TABLES

Within an atmospheric layer throughout which the molecular scale temperature is a linear function of geopotential altitude, the hydrostatic equation and the perfect gas law yield the following expressions for pressure:

$$\log_e p = \log_e p_b - \frac{g_0 W_0}{L'_M R} \log_e \frac{L'_M (H - H_b) + T_{M,b}}{T'_{M,b}} \quad (L'_M \neq 0) \quad (3a)$$

$$\log_e p = \log_e p_b - \frac{g_0 W_0}{R} \frac{1}{T_{M,b}} (H - H_b) \quad (L'_M = 0) \quad (3b)$$

where L'_M is the gradient of molecular-scale temperature with geopotential altitude. The quantity H_b is the geopotential altitude at the base of a particular layer characterized by a specific value of L'_M ; $T_{M,b}$ is the temperature value at altitude H_b ; and

$$T_M = \frac{W_0}{W} T$$

and

$$H = \int_0^Z \frac{g}{g_0} dZ$$

Thus, equations (3a) and (3b) take into account the decrease in acceleration of gravity with height and the decrease in the molecular weight of air with height. Equations (3a) and (3b) were developed in reference 2, which includes tables of pressure-altitude values based on these equations.

In the pressure-altitude tables of the present paper, the altitudes are given in geopotential meters. Tables VIII to X give values of static pressure p in millimeters of mercury, pascals (newtons per square meter), and millibars, respectively, for values of pressure altitude up to 30 000 geopotential meters. The values of p in tables VIII and X were taken directly from reference 2. The values of p in table IX were calculated from the values in table VIII by use of the conversion value from table I.

MACH NUMBER TABLES

Mach number can be expressed as a function of both static and impact pressure by the following equations:

$$\frac{q_c}{p} = \left(1 + \frac{\gamma - 1}{2} M^2\right)^{\frac{\gamma}{\gamma - 1}} - 1 \quad (M \leq 1) \quad (4)$$

and

$$\frac{q_c}{p} = \frac{1 + \gamma}{2} M^2 \left[\frac{(1 + \gamma)^2 M^2}{4\gamma M^2 - 2(\gamma - 1)} \right]^{\frac{1}{\gamma - 1}} - 1 \quad (M \geq 1) \quad (5)$$

A derivation of these equations may be found in reference 1. Table XI gives the values of the ratio of impact pressure to static pressure, q_c/p , calculated by equations (4) and (5), for values of Mach number from 0.10 to 5.00.

The reader is reminded that the determination of Mach number at supersonic speeds from the tabulated data or by use of equation (5) requires that the measurements of q_c and p be made in the free stream ahead of any possible shock waves created by the vehicle.

TRUE AIRSPEED TABLES

True airspeed can be calculated from

$$V = Ma \quad (6)$$

Since the speed of sound is a function of the absolute temperature of the ambient air in accordance with the equation

$$a = \sqrt{\gamma \frac{p_o}{\rho_o} \frac{T}{T_o}} \quad (7)$$

true airspeed can be determined from measurements of (1) Mach number, which can be measured directly or computed from measurements of calibrated airspeed and geopotential altitude, and (2) free air temperature. From the measurements of free air temperature, the speed of sound can be calculated from:

$$a = 38.9679\sqrt{T} \quad (8)$$

where T is in kelvins and a is in knots or

$$a = 72.1685\sqrt{T} \quad (9)$$

where T is in kelvins and a is in kilometers per hour.

Values of speed of sound in kilometers per hour and knots, calculated from these equations, but expressed for convenience in °F and °C, are listed in tables XII and XIII, respectively.

Table XIV presents temperature in °F and °C, speed of sound in kilometers per hour and knots, and density in kilograms per cubic meter for values of pressure altitude in geopotential meters. The values of density and °C are from reference 2. The others are calculated values.

It should be noted that the value of T required for the calculation of V is the temperature of the free stream. For the usual case, the temperature measured by an aircraft thermometer is greater than the free-stream value because of the adiabatic heating effect of the air flow on the temperature sensor. If the sensor measures the full adiabatic temperature increase (if the recovery factor of the sensor is 1.0) or if the sensor is located in a region where the local velocity of the air is equal to the free-stream velocity, the free air temperature can be calculated by

$$T = \frac{T_m}{1 + \frac{\gamma - 1}{2} \eta M^2} \quad (10)$$

where T_m is the measured temperature and η is the recovery factor of the temperature sensor. For the more general case in which η is less than 1.0 and the sensor is located in a region where the local velocity differs from the free-stream value, the free-stream temperature can be computed by

$$T = \frac{T_m}{1 + \frac{\gamma - 1}{2} \eta M_l^2} \frac{1 + \frac{\gamma - 1}{2} M_l^2}{1 + \frac{\gamma - 1}{2} M^2} \quad (11)$$

where M_l is the local Mach number, which can be determined from measurements of the local static pressure in the region in which the temperature sensor is located (ref. 1).

CONCLUDING REMARKS

Previously published pressure-airspeed tables have been revised to the atmospheric properties of the U.S. Standard Atmosphere of 1962, and the results were converted to the International System of Units. In the present tables, values of impact pressure are given for airspeeds up to 1000 knots and 1700 kilometers per hour. Pressure-altitude tables are given for altitudes up to 30 000 geopotential meters. For the determination of Mach number, tables of the ratio of impact pressure to free-stream static pressure are given

for Mach numbers from 0.10 to 5.00. Atmospheric properties, such as temperature, density, and speed of sound, are given for altitudes from -1000 to 30 000 geopotential meters.

Langley Research Center,
National Aeronautics and Space Administration,
Hampton, Va., August 10, 1973.

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TABLE I. - CONVERSION FACTORS FOR VARIOUS PRESSURE UNITS
 [Mercury and water equivalents are for T_0 (288.15 K)]

Pressure unit value	mm mercury (torr)	in. mercury	pascal ($N \cdot m^{-2}$)	lbf/in. ²	lbf/ft ²	cm H ₂ O	in. H ₂ O	atmosphere	millibar (hectopascal)	dyne/cm ²
1 mm mercury	1	3.9370×10^{-2}	133.32	1.9337×10^{-2}	2.7845	1.3608	0.53575	1.3158×10^{-3}	1.3332	1333.2
1 in. mercury	25.400	1	3386.4	0.49115	70.726	34.565	13.608	3.3421×10^{-2}	33.864	33864
1 pascal	7.5006×10^{-3}	2.9530×10^{-4}	1	1.4504×10^{-4}	2.0885×10^{-2}	1.0207×10^{-2}	4.0185×10^{-3}	9.8692×10^{-6}	10^{-2}	10
1 lbf/in. ²	51.715	2.0360	6894.8	1	144.00	70.375	27.706	6.8046×10^{-2}	68.948	68948
1 lbf/ft ²	0.35913	1.4139×10^{-2}	47.880	6.9444×10^{-3}	1	0.48871	0.19241	4.7254×10^{-4}	0.47880	478.80
1 cm H ₂ O	0.73486	2.8931×10^{-2}	97.972	1.4210×10^{-2}	2.0462	1	0.39370	9.6691×10^{-4}	0.97972	979.72
1 in. H ₂ O	1.8665	7.3486×10^{-2}	248.85	3.6093×10^{-2}	5.1973	2.5400	1	2.4560×10^{-3}	2.4685	2488.5
1 atmosphere	760.00	29.921	1013.2×10^2	14.696	2116.2	1034.2	407.17	1	1013.2	1013200
1 millibar	7.5006×10^{-1}	2.9530×10^{-2}	10^2	1.4504×10^{-2}	2.0885	1.0207	0.40185	9.8692×10^{-4}	1	1000
1 dyne/cm ²	7.5006×10^{-4}	2.9530×10^{-5}	10^{-1}	1.4504×10^{-5}	2.0885×10^{-3}	1.0207×10^{-3}	4.0185×10^{-4}	9.8692×10^{-7}	10^{-3}	1

TABLE II.- IMPACT PRESSURE IN MILLIMETERS OF MERCURY FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
0	0.000	.000	.001	.003	.006	.009	.013	.017	.023	.029
10	.035	.043	.051	.060	.069	.080	.091	.102	.115	.128
20	.142	.156	.172	.188	.204	.222	.240	.258	.278	.298
30	.319	.341	.363	.386	.410	.434	.460	.485	.512	.539
40	.567	.596	.625	.656	.687	.718	.750	.783	.817	.851
50	.887	.922	.959	.996	1.034	1.073	1.112	1.152	1.193	1.235
60	1.277	1.320	1.364	1.408	1.453	1.499	1.545	1.592	1.640	1.689
70	1.738	1.788	1.839	1.891	1.943	1.996	2.049	2.104	2.159	2.215
80	2.271	2.328	2.386	2.445	2.504	2.564	2.625	2.686	2.749	2.812
90	2.875	2.940	3.005	3.070	3.137	3.204	3.272	3.341	3.410	3.480
100	3.551	3.622	3.694	3.767	3.841	3.915	3.990	4.066	4.143	4.220
110	4.298	4.377	4.456	4.536	4.617	4.698	4.781	4.864	4.947	5.032
120	5.117	5.203	5.289	5.377	5.465	5.553	5.643	5.733	5.824	5.915
130	6.008	6.101	6.194	6.289	6.384	6.480	6.577	6.674	6.772	6.871
140	6.971	7.071	7.172	7.274	7.376	7.479	7.583	7.688	7.793	7.899
150	8.006	8.113	8.222	8.331	8.440	8.551	8.662	8.774	8.886	9.000
160	9.114	9.228	9.344	9.460	9.577	9.695	9.813	9.932	10.052	10.173
170	10.294	10.416	10.539	10.662	10.787	10.912	11.037	11.164	11.291	11.419
180	11.547	11.677	11.807	11.938	12.069	12.202	12.335	12.468	12.603	12.738
190	12.874	13.011	13.148	13.286	13.425	13.565	13.705	13.846	13.988	14.131
200	14.274	14.418	14.563	14.709	14.855	15.002	15.150	15.298	15.447	15.597
210	15.748	15.899	16.052	16.205	16.358	16.513	16.668	16.824	16.980	17.138
220	17.296	17.455	17.614	17.775	17.936	18.098	18.260	18.424	18.588	18.753
230	18.918	19.084	19.251	19.419	19.588	19.757	19.927	20.098	20.270	20.442
240	20.615	20.789	20.963	21.139	21.315	21.492	21.669	21.847	22.027	22.206
250	22.387	22.568	22.750	22.933	23.117	23.301	23.486	23.672	23.859	24.046
260	24.234	24.423	24.613	24.803	24.994	25.186	25.379	25.572	25.767	25.962
270	26.157	26.354	26.551	26.749	26.948	27.147	27.348	27.549	27.751	27.953
280	28.156	28.361	28.565	28.771	28.978	29.185	29.393	29.601	29.811	30.021
290	30.232	30.444	30.657	30.870	31.084	31.299	31.515	31.731	31.948	32.166
300	32.385	32.604	32.825	33.046	33.268	33.490	33.714	33.938	34.163	34.388
310	34.615	34.842	35.070	35.299	35.529	35.759	35.990	36.222	36.455	36.688
320	36.923	37.158	37.394	37.630	37.868	38.106	38.345	38.585	38.825	39.067
330	39.309	39.552	39.795	40.040	40.285	40.531	40.778	41.026	41.274	41.524
340	41.774	42.025	42.276	42.529	42.782	43.036	43.291	43.546	43.803	44.060
350	44.318	44.577	44.836	45.097	45.358	45.620	45.883	46.146	46.411	46.676
360	46.942	47.208	47.474	47.744	48.014	48.284	48.555	48.826	49.099	49.372
370	49.646	49.921	50.196	50.473	50.750	51.028	51.307	51.587	51.867	52.149
380	52.431	52.714	52.998	53.282	53.568	53.854	54.141	54.429	54.717	55.007
390	55.297	55.588	55.880	56.173	56.467	56.761	57.056	57.352	57.649	57.947
400	58.245	58.545	58.845	59.146	59.448	59.751	60.054	60.358	60.664	60.970
410	61.276	61.584	61.892	62.202	62.512	62.823	63.135	63.447	63.761	64.075
420	64.390	64.706	65.023	65.341	65.659	65.979	66.299	66.620	66.942	67.265
430	67.588	67.912	68.238	68.564	68.891	69.219	69.547	69.877	70.207	70.538
440	70.870	71.203	71.537	71.871	72.207	72.543	72.880	73.218	73.557	73.897
450	74.237	74.579	74.921	75.264	75.608	75.953	76.299	76.646	76.993	77.341
460	77.690	78.040	78.391	78.743	79.096	79.449	79.804	80.159	80.515	80.872
470	81.230	81.589	81.948	82.309	82.670	83.032	83.395	83.759	84.124	84.490
480	84.856	85.224	85.592	85.961	86.332	86.703	87.074	87.447	87.821	88.195
490	88.571	88.947	89.324	89.702	90.081	90.461	90.842	91.223	91.606	91.989
500	92.374	92.759	93.145	93.532	93.920	94.309	94.698	95.089	95.480	95.873
510	96.266	96.660	97.055	97.451	97.848	98.246	98.645	99.044	99.445	99.846
520	100.248	100.652	101.056	101.461	101.867	102.274	102.682	103.090	103.500	103.910
530	104.322	104.734	105.148	105.562	105.977	106.393	106.810	107.228	107.647	108.066
540	108.487	108.909	109.331	109.755	110.179	110.604	111.030	111.458	111.886	112.315
550	112.745	113.176	113.607	114.040	114.474	114.909	115.344	115.781	116.218	116.657
560	117.096	117.536	117.977	118.420	118.863	119.307	119.752	120.198	120.645	121.092
570	121.541	121.991	122.442	122.893	123.346	123.800	124.254	124.710	125.166	125.624
580	126.082	126.541	127.002	127.463	127.925	128.388	128.852	129.317	129.784	130.251
590	130.719	131.188	131.658	132.128	132.600	133.073	133.547	134.022	134.498	134.975

TABLE II. - IMPACT PRESSURE IN MILLIMETERS OF MERCURY FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR - Continued

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
600	135.452	135.931	136.411	136.891	137.373	137.856	138.339	138.824	139.310	139.796
610	140.284	140.773	141.262	141.753	142.244	142.737	143.230	143.725	144.220	144.717
620	145.215	145.713	146.213	146.713	147.215	147.717	148.221	148.725	149.231	149.737
630	150.245	150.754	151.263	151.774	152.285	152.798	153.312	153.826	154.342	154.859
640	155.376	155.895	156.415	156.936	157.457	157.980	158.504	159.029	159.555	160.082
650	160.610	161.139	161.669	162.200	162.732	163.265	163.799	164.334	164.870	165.408
660	165.946	166.485	167.026	167.567	168.110	168.653	169.198	169.743	170.290	170.838
670	171.386	171.936	172.487	173.039	173.592	174.146	174.701	175.257	175.814	176.372
680	176.932	177.492	178.054	178.616	179.180	179.744	180.310	180.877	181.445	182.013
690	182.583	183.154	183.727	184.300	184.874	185.449	186.026	186.603	187.182	187.762
700	188.342	188.924	189.507	190.091	190.676	191.263	191.850	192.438	193.028	193.618
710	194.210	194.803	195.397	195.992	196.588	197.185	197.783	198.382	198.983	199.584
720	200.187	200.791	201.396	202.002	202.609	203.217	203.827	204.437	205.049	205.661
730	206.275	206.890	207.506	208.123	208.742	209.361	209.982	210.603	211.226	211.850
740	212.475	213.102	213.729	214.357	214.987	215.618	216.250	216.883	217.517	218.152
750	218.789	219.426	220.065	220.705	221.346	221.988	222.632	223.276	223.922	224.569
760	225.217	225.866	226.516	227.168	227.820	228.474	229.129	229.785	230.442	231.101
770	231.760	232.421	233.083	233.746	234.411	235.076	235.743	236.411	237.080	237.750
780	238.421	239.094	239.768	240.443	241.119	241.796	242.475	243.154	243.835	244.517
790	245.201	245.885	246.571	247.258	247.946	248.635	249.326	250.018	250.711	251.405
800	252.100	252.797	253.494	254.193	254.894	255.595	256.298	257.001	257.707	258.413
810	259.120	259.829	260.539	261.250	261.963	262.676	263.391	264.108	264.825	265.544
820	266.263	266.984	267.707	268.430	269.155	269.881	270.609	271.337	272.067	272.798
830	273.530	274.264	274.999	275.735	276.472	277.211	277.951	278.692	279.434	280.178
840	280.923	281.669	282.416	283.165	283.915	284.666	285.419	286.173	286.928	287.684
850	288.442	289.201	289.961	290.723	291.486	292.250	293.015	293.782	294.550	295.319
860	296.090	296.862	297.635	298.409	299.185	299.962	300.741	301.520	302.301	303.084
870	303.867	304.652	305.439	306.226	307.015	307.805	308.597	309.390	310.184	310.979
880	311.776	312.575	313.374	314.175	314.977	315.781	316.586	317.392	318.199	319.008
890	319.818	320.630	321.443	322.257	323.073	323.890	324.708	325.528	326.349	327.171
900	327.995	328.820	329.647	330.475	331.304	332.134	332.966	333.800	334.634	335.471
910	336.308	337.147	337.987	338.829	339.672	340.516	341.362	342.209	343.058	343.907
920	344.759	345.612	346.466	347.321	348.178	349.036	349.896	350.757	351.620	352.484
930	353.349	354.216	355.084	355.954	356.825	357.697	358.571	359.446	360.323	361.201
940	362.081	362.962	363.844	364.728	365.613	366.500	367.388	368.278	369.169	370.061
950	370.955	371.851	372.748	373.646	374.546	375.447	376.349	377.254	378.159	379.066
960	379.975	380.885	381.796	382.709	383.623	384.539	385.456	386.375	387.295	388.217
970	389.140	390.065	390.991	391.919	392.848	393.779	394.711	395.645	396.580	397.516
980	398.455	399.394	400.335	401.278	402.222	403.168	404.115	405.064	406.014	406.966
990	407.919	408.874	409.830	410.788	411.747	412.708	413.670	414.634	415.600	416.567
1000	417.535	418.505	419.477	420.450	421.425	422.401	423.379	424.358	425.339	426.321
1010	427.305	428.291	429.278	430.267	431.257	432.249	433.242	434.237	435.234	436.232
1020	437.232	438.233	439.236	440.240	441.246	442.254	443.263	444.274	445.286	446.300
1030	447.315	448.333	449.351	450.372	451.394	452.417	453.442	454.469	455.498	456.528
1040	457.559	458.592	459.627	460.664	461.702	462.742	463.783	464.826	465.870	466.917
1050	467.965	469.014	470.065	471.118	472.173	473.229	474.286	475.346	476.407	477.470
1060	478.534	479.600	480.668	481.737	482.808	483.881	484.955	486.031	487.109	488.188
1070	489.269	490.352	491.436	492.523	493.610	494.700	495.791	496.884	497.978	499.075
1080	500.173	501.272	502.374	503.477	504.581	505.688	506.796	507.906	509.018	510.131
1090	511.246	512.363	513.481	514.602	515.724	516.847	517.973	519.100	520.229	521.360
1100	522.492	523.626	524.762	525.900	527.039	528.180	529.323	530.468	531.614	532.762
1110	533.912	535.064	536.218	537.373	538.530	539.689	540.849	542.012	543.176	544.342
1120	545.510	546.679	547.850	549.024	550.198	551.375	552.554	553.734	554.916	556.100
1130	557.286	558.473	559.663	560.854	562.047	563.242	564.439	565.637	566.837	568.039
1140	569.243	570.449	571.657	572.866	574.078	575.291	576.506	577.723	578.942	580.162
1150	581.385	582.609	583.835	585.063	586.293	587.525	588.759	589.994	591.232	592.471
1160	593.712	594.955	596.200	597.447	598.696	599.947	601.199	602.454	603.710	604.968
1170	606.228	607.490	608.754	610.020	611.288	612.558	613.829	615.103	616.378	617.656
1180	618.935	620.216	621.500	622.785	624.072	625.361	626.652	627.945	629.240	630.537
1190	631.835	633.136	634.439	635.744	637.050	638.359	639.669	640.982	642.297	643.613

TABLE II. - IMPACT PRESSURE IN MILLIMETERS OF MERCURY FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR - Concluded

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
1200	644.932	646.252	647.575	648.899	650.226	651.554	652.884	654.217	655.551	656.888
1210	658.226	659.567	660.909	662.254	663.600	664.949	666.299	667.652	669.007	670.363
1220	671.722	673.083	674.446	675.810	677.177	678.546	679.916	681.289	682.664	684.042
1230	685.421	686.802	688.185	689.570	690.957	692.347	693.738	695.131	696.527	697.924
1240	699.323	700.725	702.128	703.533	704.940	706.350	707.761	709.174	710.590	712.007
1250	713.426	714.847	716.270	717.695	719.122	720.551	721.982	723.415	724.850	726.287
1260	727.726	729.166	730.609	732.054	733.500	734.949	736.399	737.851	739.306	740.762
1270	742.220	743.680	745.142	746.605	748.071	749.539	751.008	752.480	753.953	755.428
1280	756.905	758.384	759.865	761.348	762.833	764.319	765.808	767.299	768.790	770.284
1290	771.780	773.278	774.777	776.279	777.782	779.287	780.794	782.303	783.814	785.326
1300	786.841	788.357	789.875	791.395	792.917	794.441	795.966	797.493	799.022	800.553
1310	802.086	803.621	805.157	806.695	808.235	809.777	811.321	812.866	814.413	815.962
1320	817.513	819.066	820.620	822.177	823.735	825.295	826.856	828.420	829.985	831.552
1330	833.120	834.691	836.263	837.837	839.413	840.991	842.570	844.152	845.734	847.319
1340	848.906	850.494	852.084	853.676	855.269	856.864	858.461	860.060	861.661	863.263
1350	864.867	866.473	868.080	869.689	871.300	872.913	874.528	876.144	877.762	879.381
1360	881.003	882.626	884.250	885.877	887.505	889.135	890.767	892.400	894.035	895.672
1370	897.311	898.951	900.593	902.237	903.882	905.529	907.178	908.829	910.481	912.135
1380	913.790	915.448	917.107	918.767	920.430	922.094	923.759	925.427	927.096	928.767
1390	930.439	932.113	933.789	935.467	937.146	938.827	940.509	942.194	943.879	945.567
1400	947.256	948.947	950.640	952.334	954.030	955.727	957.427	959.127	960.830	962.534
1410	964.240	965.947	967.657	969.367	971.080	972.794	974.510	976.227	977.946	979.667
1420	981.389	983.113	984.839	986.566	988.295	990.025	991.757	993.491	995.227	996.964
1430	998.702	1000.443	1002.185	1003.929	1005.673	1007.420	1009.169	1010.919	1012.670	1014.424
1440	1016.179	1017.935	1019.693	1021.453	1023.214	1024.977	1026.742	1028.508	1030.276	1032.045
1450	1033.817	1035.589	1037.363	1039.139	1040.917	1042.696	1044.477	1046.259	1048.043	1049.828
1460	1051.615	1053.404	1055.194	1056.986	1058.779	1060.574	1062.371	1064.169	1065.969	1067.771
1470	1069.574	1071.378	1073.184	1074.992	1076.801	1078.612	1080.425	1082.239	1084.055	1085.872
1480	1087.691	1089.511	1091.333	1093.156	1094.982	1096.808	1098.637	1100.466	1102.298	1104.131
1490	1105.965	1107.801	1109.639	1111.478	1113.319	1115.162	1117.005	1118.851	1120.698	1122.547
1500	1124.397	1126.249	1128.102	1129.957	1131.813	1133.671	1135.531	1137.392	1139.254	1141.119
1510	1142.984	1144.852	1146.720	1148.591	1150.463	1152.337	1154.211	1156.088	1157.966	1159.846
1520	1161.727	1163.610	1165.494	1167.380	1169.267	1171.155	1173.046	1174.938	1176.832	1178.727
1530	1180.624	1182.522	1184.421	1186.323	1188.225	1190.130	1192.035	1193.943	1195.852	1197.762
1540	1199.674	1201.587	1203.502	1205.419	1207.337	1209.256	1211.177	1213.100	1215.024	1216.950
1550	1218.877	1220.806	1222.736	1224.668	1226.601	1228.536	1230.472	1232.410	1234.349	1236.290
1560	1238.232	1240.176	1242.121	1244.068	1246.017	1247.966	1249.918	1251.871	1253.825	1255.781
1570	1257.739	1259.698	1261.658	1263.620	1265.583	1267.548	1269.515	1271.483	1273.452	1275.423
1580	1277.396	1279.370	1281.345	1283.322	1285.301	1287.281	1289.262	1291.245	1293.230	1295.216
1590	1297.203	1299.192	1301.183	1303.175	1305.168	1307.163	1309.159	1311.157	1313.157	1315.158
1600	1317.160	1319.164	1321.169	1323.176	1325.184	1327.194	1329.206	1331.218	1333.233	1335.249
1610	1337.266	1339.285	1341.305	1343.326	1345.350	1347.374	1349.401	1351.428	1353.457	1355.488
1620	1357.520	1359.553	1361.589	1363.625	1365.663	1367.702	1369.743	1371.786	1373.830	1375.875
1630	1377.922	1379.970	1382.020	1384.071	1386.124	1388.178	1390.234	1392.291	1394.350	1396.410
1640	1398.471	1400.534	1402.599	1404.665	1406.732	1408.801	1410.871	1412.943	1415.016	1417.091
1650	1419.167	1421.245	1423.324	1425.405	1427.487	1429.570	1431.655	1433.742	1435.830	1437.919
1660	1440.010	1442.102	1444.196	1446.291	1448.388	1450.486	1452.585	1454.686	1456.789	1458.893
1670	1460.998	1463.105	1465.213	1467.323	1469.434	1471.547	1473.661	1475.777	1477.894	1480.012
1680	1482.132	1484.253	1486.376	1488.500	1490.626	1492.753	1494.882	1497.012	1499.143	1501.276
1690	1503.411	1505.547	1507.684	1509.823	1511.963	1514.104	1516.247	1518.392	1520.538	1522.685
1700	1524.834									

TABLE III.- IMPACT PRESSURE IN PASCALS (NEWTONS PER SQUARE METER) FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
0	0.000	.047	.189	.425	.756	1.182	1.701	2.316	3.025	3.828
10	4.726	5.719	6.806	7.987	9.263	10.634	12.099	13.659	15.313	17.062
20	18.906	20.844	22.876	25.003	27.225	29.541	31.952	34.457	37.057	39.752
30	42.541	45.425	48.403	51.476	54.644	57.906	61.263	64.715	68.261	71.902
40	75.637	79.468	83.393	87.412	91.526	95.735	100.039	104.438	108.931	113.519
50	118.201	122.979	127.851	132.818	137.879	143.036	148.287	153.633	159.074	164.610
60	170.241	175.966	181.787	187.702	193.712	199.817	206.017	212.312	218.702	225.187
70	231.767	238.442	245.212	252.076	259.036	266.091	273.241	280.486	287.826	295.261
80	302.792	310.417	318.138	325.953	333.864	341.870	349.972	358.168	366.460	374.847
90	383.329	391.907	400.580	409.348	418.211	427.170	436.225	445.374	454.619	463.960
100	473.396	482.927	492.554	502.277	512.094	522.008	532.017	542.122	552.322	562.618
110	573.009	583.496	594.079	604.758	615.532	626.402	637.368	648.430	659.587	670.840
120	682.190	693.635	705.176	716.812	728.545	740.374	752.299	764.320	776.437	788.650
130	800.959	813.364	825.865	838.463	851.156	863.946	876.832	889.815	902.894	916.069
140	929.340	942.708	956.172	969.733	983.390	997.143	1010.994	1024.940	1038.983	1053.123
150	1067.360	1081.693	1096.122	1110.649	1125.272	1139.992	1154.809	1169.723	1184.733	1199.841
160	1215.045	1230.346	1245.744	1261.240	1276.832	1292.521	1308.308	1324.191	1340.172	1356.250
170	1372.475	1388.698	1405.068	1421.535	1438.099	1454.761	1471.520	1488.377	1505.331	1522.383
180	1539.532	1556.775	1574.124	1591.566	1609.106	1626.744	1644.479	1662.312	1680.244	1698.273
190	1716.400	1734.624	1752.947	1771.368	1789.887	1808.504	1827.219	1846.033	1864.944	1883.954
200	1903.062	1922.269	1941.573	1960.977	1980.478	2000.078	2019.777	2039.574	2059.470	2079.464
210	2099.557	2119.749	2140.040	2160.429	2180.917	2201.505	2222.191	2242.976	2263.860	2284.843
220	2305.925	2327.106	2348.386	2369.766	2391.245	2412.823	2434.501	2456.278	2478.154	2500.130
230	2522.205	2544.380	2566.655	2589.029	2611.503	2634.077	2656.750	2679.523	2702.396	2725.369
240	2748.442	2771.616	2794.889	2818.262	2841.735	2865.309	2888.983	2912.757	2936.631	2960.606
250	2984.681	3008.857	3033.133	3057.510	3081.988	3106.566	3131.245	3156.025	3180.905	3205.887
260	3230.969	3256.152	3281.437	3306.822	3332.309	3357.897	3383.586	3409.376	3435.268	3461.261
270	3487.355	3513.551	3539.849	3566.248	3592.748	3619.351	3646.055	3672.861	3699.769	3726.779
280	3753.890	3781.104	3808.420	3835.838	3863.358	3890.981	3918.705	3946.533	3974.462	4002.494
290	4030.629	4058.866	4087.205	4115.648	4144.193	4172.841	4201.592	4230.445	4259.402	4288.462
300	4317.625	4346.891	4376.260	4405.732	4435.308	4464.987	4494.770	4524.656	4554.646	4584.739
310	4614.936	4645.237	4675.641	4706.150	4736.762	4767.479	4798.299	4829.223	4860.252	4891.385
320	4922.622	4953.964	4985.410	5016.960	5048.615	5080.375	5112.239	5144.209	5176.282	5208.461
330	5240.745	5273.134	5305.627	5338.226	5370.930	5403.740	5436.654	5469.674	5502.800	5536.031
340	5569.367	5602.810	5636.357	5670.011	5703.771	5737.636	5771.608	5805.685	5839.869	5874.159
350	5908.555	5943.058	5977.667	6012.382	6047.204	6082.132	6117.168	6152.310	6187.558	6222.914
360	6258.377	6293.946	6329.623	6365.407	6401.298	6437.297	6473.402	6509.616	6545.937	6582.365
370	6618.901	6655.545	6692.297	6729.156	6766.124	6803.200	6840.383	6877.675	6915.075	6952.584
380	6990.201	7027.926	7065.761	7103.703	7141.755	7179.915	7218.184	7256.562	7295.049	7333.645
390	7372.350	7411.165	7450.089	7489.122	7528.265	7567.517	7606.879	7646.351	7685.933	7725.624
400	7765.426	7805.337	7845.359	7885.490	7925.732	7966.085	8006.548	8047.121	8087.805	8128.600
410	8169.505	8210.522	8251.649	8292.887	8334.236	8375.697	8417.269	8458.952	8500.746	8542.652
420	8584.670	8626.799	8669.040	8711.393	8753.858	8796.435	8839.124	8881.925	8924.839	8967.865
430	9011.003	9054.254	9097.617	9141.093	9184.682	9228.384	9272.199	9316.126	9360.167	9404.321
440	9448.589	9492.970	9537.464	9582.072	9626.794	9671.629	9716.579	9761.642	9806.819	9852.110
450	9897.516	9943.036	9988.670	10034.419	10080.282	10126.260	10172.353	10218.560	10264.883	10311.320
460	10357.873	10404.541	10451.324	10498.223	10545.237	10592.367	10639.612	10686.973	10734.450	10782.043
470	10829.753	10877.578	10925.519	10973.577	11021.752	11070.043	11118.450	11166.974	11215.615	11264.374
480	11313.3249	11362.241	11411.350	11460.577	11509.921	11559.383	11608.962	11658.659	11708.474	11758.407
490	11808.458	11858.627	11908.914	11959.319	12009.843	12060.486	12111.247	12162.127	12213.125	12264.243
500	12315.479	12366.835	12418.310	12469.904	12521.618	12573.451	12625.404	12677.476	12729.669	12781.981
510	12834.414	12886.966	12939.639	12992.433	13045.347	13098.381	13151.536	13204.812	13258.209	13311.726
520	13365.365	13419.126	13473.007	13527.010	13581.134	13635.381	13689.748	13744.238	13798.850	13853.584
530	13908.440	13963.418	14018.519	14073.742	14129.088	14184.557	14240.149	14295.863	14351.701	14407.662
540	14463.746	14519.953	14576.284	14632.739	14689.318	14746.020	14802.846	14859.797	14916.871	14974.070
550	15031.394	15088.842	15146.414	15204.112	15261.934	15319.882	15377.954	15436.152	15494.475	15552.923
560	15611.497	15670.197	15729.023	15787.975	15847.052	15906.256	15965.586	16025.043	16084.626	16144.336
570	16204.172	16264.136	16324.226	16384.444	16444.789	16505.261	16565.861	16626.588	16687.443	16748.426
580	16809.537	16870.776	16932.143	16993.639	17055.263	17117.016	17178.897	17240.907	17303.046	17365.314
590	17427.712	17490.239	17552.895	17615.681	17678.596	17741.642	17804.817	17868.123	17931.558	17995.124

TABLE III. - IMPACT PRESSURE IN PASCALS (NEWTONS PER SQUARE METER) FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR - Continued

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
600	18058.821	18122.648	18186.605	18250.694	18314.914	18379.264	18443.746	18508.360	18573.104	18637.981
610	18702.989	18768.129	18833.401	18898.805	18964.342	19030.010	19095.812	19161.746	19227.813	19294.013
620	19360.365	19426.811	19493.411	19560.144	19627.010	19694.010	19761.144	19828.412	19895.814	19963.350
630	20031.021	20098.826	20166.766	20234.841	20303.051	20371.395	20439.875	20508.490	20577.241	20646.128
640	20715.150	20784.308	20853.602	20923.032	20992.598	21062.301	21132.141	21202.117	21272.230	21342.480
650	21417.868	21488.392	21559.054	21629.854	21699.791	21769.866	21839.079	21909.430	21980.920	22052.548
660	22124.314	22196.219	22268.263	22340.446	22412.768	22485.230	22557.831	22630.571	22703.451	22776.471
670	22849.631	22922.931	22996.371	23069.952	23143.674	23217.536	23291.539	23365.683	23439.968	23514.394
680	23588.962	23663.672	23738.523	23813.517	23888.652	23963.930	24039.350	24114.912	24190.617	24266.465
690	24342.456	24418.590	24494.867	24571.288	24647.853	24724.561	24801.412	24878.408	24955.549	25032.833
700	25110.262	25187.836	25265.554	25343.417	25421.426	25499.580	25577.879	25656.324	25734.914	25813.651
710	25892.533	25971.562	26050.737	26130.058	26209.526	26289.142	26368.904	26448.813	26528.869	26609.073
720	26689.425	26769.924	26850.572	26931.367	27012.311	27093.403	27174.644	27256.034	27337.572	27419.260
730	27501.096	27583.083	27665.218	27747.504	27829.939	27912.525	27995.261	28078.147	28161.183	28244.371
740	28327.709	28411.198	28494.839	28578.631	28662.574	28746.670	28830.917	28915.316	28999.867	29084.571
750	29169.427	29254.436	29339.598	29424.913	29510.382	29596.003	29681.779	29767.708	29853.790	29940.027
760	30026.419	30112.964	30199.665	30286.520	30373.530	30460.695	30548.015	30635.491	30723.123	30810.910
770	30898.854	30986.953	31075.209	31163.621	31252.190	31340.916	31429.799	31518.840	31608.037	31697.392
780	31786.905	31876.576	31966.405	32056.393	32146.538	32236.843	32327.306	32417.928	32508.710	32599.651
790	32690.751	32782.011	32873.431	32965.011	33056.751	33148.652	33240.714	33332.936	33425.319	33517.864
800	33610.570	33703.437	33796.466	33889.657	33983.010	34076.526	34170.204	34264.044	34358.048	34452.214
810	34546.544	34641.037	34735.694	34830.515	34925.499	35020.648	35115.961	35211.439	35307.081	35402.888
820	35498.861	35594.999	35691.302	35787.771	35884.405	35981.206	36078.173	36175.307	36272.607	36370.074
830	36467.708	36565.510	36663.478	36761.615	36859.919	36958.391	37057.032	37155.840	37254.818	37353.964
840	37453.279	37552.764	37652.417	37752.241	37852.234	37952.397	38052.730	38153.234	38253.908	38354.753
850	38455.769	38556.956	38658.315	38759.845	38861.547	38963.421	39065.467	39167.685	39270.076	39372.640
860	39475.377	39578.287	39681.370	39784.627	39888.058	39991.663	40095.442	40199.395	40303.523	40407.826
870	40512.304	40616.958	40721.786	40826.791	40931.971	41037.327	41142.860	41248.569	41354.455	41460.518
880	41566.758	41673.175	41779.770	41886.542	41993.493	42100.622	42207.929	42315.414	42423.079	42530.923
890	42638.946	42747.148	42855.530	42964.092	43072.834	43181.756	43290.859	43400.143	43509.607	43619.253
900	43729.080	43839.089	43949.280	44059.653	44170.288	44280.945	44391.866	44502.969	44614.255	44725.725
910	44837.378	44949.215	45061.236	45173.442	45285.832	45398.407	45511.166	45624.111	45737.241	45850.557
920	45964.058	46077.746	46191.620	46305.680	46419.927	46534.361	46648.982	46763.791	46878.787	46993.971
930	47109.344	47224.904	47340.653	47456.591	47572.718	47689.034	47805.539	47922.235	48039.120	48156.195
940	48273.461	48390.917	48508.564	48626.402	48744.432	48862.653	48981.066	49099.671	49218.468	49337.457
950	49456.640	49576.015	49695.583	49815.345	49935.301	50055.450	50175.794	50296.332	50417.065	50537.992
960	50659.115	50780.432	50901.946	51023.655	51145.560	51267.662	51389.960	51512.455	51635.147	51758.036
970	51881.123	52004.407	52127.890	52251.570	52375.449	52499.527	52623.804	52748.280	52872.955	52997.831
980	53122.906	53248.181	53373.657	53499.333	53625.211	53751.289	53877.569	54004.051	54130.734	54257.620
990	54384.708	54511.999	54639.493	54767.190	54895.091	55023.195	55151.503	55280.015	55408.732	55537.653
1000	55666.780	55796.111	55925.648	56055.391	56185.340	56315.495	56445.857	56576.425	56707.200	56838.183
1010	56969.373	57100.770	57232.376	57364.190	57496.213	57628.445	57760.885	57893.535	58026.395	58159.464
1020	58292.744	58426.234	58559.934	58693.846	58827.968	58962.302	59096.848	59231.606	59366.576	59501.758
1030	59637.154	59772.762	59908.584	60044.619	60180.868	60317.331	60454.008	60590.900	60728.007	60865.330
1040	61002.867	61140.621	61278.590	61416.776	61555.178	61693.797	61832.633	61971.686	62110.957	62250.446
1050	62390.153	62530.079	62670.223	62810.586	62951.169	63091.971	63232.993	63374.235	63515.697	63657.380
1060	63799.284	63941.410	64083.756	64225.325	64369.115	64512.128	64655.364	64798.822	64942.504	65086.409
1070	65230.538	65374.890	65519.468	65664.269	65809.296	65954.548	66100.025	66245.728	66391.657	66537.812
1080	66684.194	66830.833	66977.639	67124.702	67271.994	67419.513	67567.260	67715.237	67863.446	68011.876
1090	68160.540	68309.433	68458.557	68607.911	68757.495	68907.311	69057.358	69207.636	69358.142	69508.889
1100	69659.864	69811.071	69962.512	70114.185	70266.093	70418.234	70570.610	70723.220	70876.065	71029.145
1110	71182.460	71336.011	71489.798	71643.821	71798.081	71952.578	72107.312	72262.284	72417.494	72572.941
1120	72728.627	72884.552	73040.716	73197.119	73353.762	73510.644	73667.767	73825.131	73982.735	74140.581
1130	74298.668	74456.997	74615.568	74774.382	74933.438	75092.737	75252.280	75412.066	75572.096	75732.371
1140	75892.890	76053.654	76214.664	76375.918	76537.419	76699.166	76861.160	77023.400	77185.887	77348.622
1150	77511.605	77674.836	77838.315	78002.043	78166.020	78330.246	78494.722	78659.448	78824.424	78989.651
1160	79155.129	79320.858	79486.839	79653.072	79819.557	79986.295	80153.285	80320.529	80488.027	80655.778
1170	80823.784	80992.044	81160.559	81329.329	81498.355	81667.636	81837.174	82006.969	82177.020	82347.328
1180	82517.894	82688.718	82859.800	83031.141	83202.740	83374.599	83546.717	83719.095	83891.733	84064.632
1190	84237.791	84411.212	84584.895	84758.839	84933.045	85107.515	85282.247	85457.242	85632.501	85808.023

TABLE III.- IMPACT PRESSURE IN PASCALS (NEWTONS PER SQUARE METER) FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR - Concluded

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
1200	85983.810	86159.862	86336.179	86512.761	86689.608	86866.722	87044.102	87221.748	87399.662	87577.843
1210	87756.291	87935.008	88113.993	88293.247	88472.770	88652.563	88832.625	89012.957	89193.560	89374.434
1220	89555.579	89736.996	89918.684	90100.645	90282.879	90465.385	90648.063	90831.115	91014.440	91198.036
1230	91381.905	91566.044	91750.454	91935.135	92120.085	92305.304	92490.793	92676.550	92862.575	93048.868
1240	93235.428	93422.255	93609.368	93796.708	93984.332	94172.222	94360.377	94548.796	94737.480	94926.426
1250	95115.636	95305.109	95494.844	95684.841	95875.099	96065.619	96256.400	96447.441	96638.742	96830.302
1260	97022.123	97214.202	97406.539	97599.135	97791.988	97985.099	98178.468	98372.092	98565.974	98760.111
1270	98954.504	99149.152	99344.055	99539.213	99734.625	99930.291	100126.210	100322.383	100518.809	100715.487
1280	100912.417	101109.600	101307.034	101504.719	101702.655	101900.841	102099.278	102297.966	102496.901	102696.086
1290	102895.521	103095.204	103295.135	103495.315	103695.742	103896.416	104097.338	104298.506	104499.921	104701.582
1300	104903.489	105105.642	105308.040	105510.682	105713.570	105916.702	106120.077	106323.697	106527.560	106731.667
1310	106936.016	107140.608	107345.443	107550.519	107755.838	107961.397	108167.199	108373.241	108579.524	108786.047
1320	108992.810	109199.814	109407.057	109614.539	109822.261	110030.221	110238.420	110446.857	110655.532	110864.445
1330	111073.596	111282.984	111492.609	111702.470	111912.569	112122.903	112333.474	112544.280	112755.322	112966.599
1340	113178.111	113389.858	113601.840	113814.056	114026.505	114239.189	114452.107	114665.257	114878.641	115092.258
1350	115306.108	115520.189	115734.504	115949.050	116163.828	116378.837	116594.078	116809.549	117025.252	117241.185
1360	117457.349	117673.743	117890.367	118107.220	118324.304	118541.616	118759.158	118976.928	119194.927	119413.155
1370	119631.611	119850.295	120069.207	120288.347	120507.714	120727.308	120947.129	121167.177	121387.452	121607.953
1380	121828.680	122049.634	122270.813	122492.218	122713.848	122935.704	123157.785	123380.090	123602.620	123825.375
1390	124048.354	124271.557	124494.984	124718.635	124942.509	125166.606	125390.927	125615.471	125840.237	126065.227
1400	126290.438	126515.872	126741.528	126967.406	127193.505	127419.826	127646.369	127873.133	128100.117	128327.323
1410	128554.749	128782.396	129010.263	129238.350	129466.657	129695.184	129923.931	130152.897	130382.082	130611.487
1420	130841.111	131070.953	131301.014	131531.294	131761.792	131992.508	132223.442	132454.594	132685.964	132917.551
1430	133149.356	133381.378	133613.617	133846.072	134078.745	134311.634	134544.740	134778.062	135011.600	135245.354
1440	135479.325	135713.510	135947.912	136182.528	136417.360	136652.407	136887.669	137123.146	137358.838	137594.744
1450	137830.864	138067.199	138303.748	138540.511	138777.487	139014.678	139252.081	139489.699	139727.529	139965.573
1460	140203.830	140442.299	140680.981	140919.876	141158.983	141398.303	141637.835	141877.578	142117.534	142357.702
1470	142598.081	142838.672	143079.474	143320.487	143561.711	143803.147	144044.793	144286.650	144528.718	144770.996
1480	145013.485	145256.184	145499.093	145742.212	145985.541	146229.080	146472.828	146716.786	146960.953	147205.329
1490	147449.915	147694.710	147939.713	148184.926	148430.347	148675.976	148921.815	149167.861	149414.116	149660.578
1500	149907.249	150154.128	150401.214	150648.508	150896.009	151143.718	151391.634	151639.758	151888.088	152136.626
1510	152385.370	152634.321	152883.479	153132.843	153382.414	153632.191	153882.174	154132.363	154382.759	154633.360
1520	154884.167	155135.179	155386.398	155637.821	155889.450	156141.285	156393.324	156645.569	156898.018	157150.673
1530	157403.532	157656.596	157909.864	158163.337	158417.014	158670.895	158924.981	159179.271	159433.764	159688.462
1540	159943.363	160198.468	160453.776	160709.288	160965.004	161220.922	161477.044	161733.369	161989.897	162246.628
1550	162503.561	162760.698	163018.037	163275.578	163533.322	163791.269	164049.418	164307.768	164566.321	164825.076
1560	165084.033	165343.192	165602.552	165862.114	166121.878	166381.843	166642.010	166902.377	167162.946	167423.716
1570	167684.688	167945.860	168207.233	168468.806	168730.581	168992.556	169254.732	169517.108	169779.684	170042.461
1580	170305.438	170568.615	170831.992	171095.569	171359.346	171623.322	171887.499	172151.875	172416.451	172681.226
1590	172946.200	173211.374	173476.747	173742.319	174008.090	174274.061	174540.230	174806.598	175073.165	175339.930
1600	175606.894	175874.057	176141.418	176408.978	176676.736	176944.692	177212.846	177481.198	177749.749	178018.497
1610	178287.444	178556.588	178825.929	179095.469	179365.206	179635.140	179905.272	180175.602	180446.129	180716.852
1620	180987.774	181258.892	181530.207	181801.719	182073.428	182345.334	182617.436	182889.736	183162.232	183434.924
1630	183707.813	183980.898	184254.180	184527.658	184801.332	185075.202	185349.269	185623.531	185897.989	186172.643
1640	186447.493	186722.539	186997.780	187273.217	187548.850	187824.678	188100.702	188376.920	188653.335	188929.944
1650	189206.749	189483.748	189760.943	190038.333	190315.917	190593.697	190871.671	191149.840	191428.204	191706.762
1660	191985.515	192264.463	192543.604	192822.941	193102.471	193382.196	193662.115	193942.228	194222.535	194503.037
1670	194783.732	195064.621	195345.704	195626.981	195908.451	196190.115	196471.973	196754.025	197036.270	197318.708
1680	197601.340	197884.165	198167.183	198450.395	198733.800	199017.398	199301.189	199585.172	199869.349	200153.719
1690	200438.282	200723.037	201007.986	201293.127	201578.460	201863.986	202149.705	202435.616	202721.720	203008.016
1700	203294.504									

TABLE IV.- IMPACT PRESSURE IN MILLIBARS (HECTOPASCALS) FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
0	0.000	.000	.002	.004	.008	.012	.017	.023	.030	.038
10	.047	.057	.068	.080	.093	.106	.121	.137	.153	.171
20	.189	.208	.225	.250	.272	.295	.319	.345	.371	.397
30	.425	.454	.484	.515	.546	.579	.613	.647	.683	.719
40	.756	.795	.834	.874	.915	.957	1.000	1.044	1.089	1.135
50	1.182	1.230	1.278	1.328	1.379	1.430	1.483	1.536	1.591	1.646
60	1.702	1.759	1.818	1.877	1.937	1.998	2.060	2.123	2.187	2.252
70	2.317	2.384	2.452	2.521	2.590	2.661	2.732	2.805	2.878	2.952
80	3.024	3.104	3.181	3.259	3.338	3.418	3.499	3.581	3.664	3.748
90	3.833	3.919	4.005	4.093	4.182	4.271	4.362	4.453	4.546	4.639
100	4.733	4.829	4.925	5.022	5.120	5.220	5.320	5.421	5.523	5.626
110	5.729	5.834	5.940	6.047	6.155	6.263	6.373	6.484	6.595	6.708
120	6.821	6.936	7.051	7.167	7.285	7.403	7.522	7.642	7.764	7.886
130	8.009	8.133	8.258	8.384	8.511	8.639	8.767	8.897	9.028	9.160
140	9.292	9.426	9.561	9.696	9.833	9.970	10.109	10.248	10.389	10.530
150	10.672	10.816	10.960	11.105	11.252	11.399	11.547	11.696	11.846	11.997
160	12.149	12.302	12.456	12.611	12.767	12.924	13.082	13.241	13.400	13.561
170	13.723	13.886	14.049	14.214	14.379	14.546	14.714	14.882	15.052	15.222
180	15.394	15.566	15.740	15.914	16.089	16.266	16.443	16.621	16.801	16.981
190	17.162	17.344	17.528	17.712	17.897	18.083	18.270	18.458	18.647	18.838
200	19.029	19.221	19.414	19.608	19.803	19.999	20.196	20.394	20.593	20.792
210	20.993	21.195	21.398	21.602	21.807	22.013	22.220	22.427	22.636	22.846
220	23.057	23.269	23.481	23.695	23.910	24.126	24.342	24.560	24.779	24.999
230	25.219	25.441	25.664	25.888	26.112	26.338	26.565	26.792	27.021	27.251
240	27.482	27.713	27.946	28.180	28.414	28.650	28.887	29.125	29.363	29.603
250	29.844	30.085	30.328	30.572	30.817	31.062	31.309	31.557	31.806	32.056
260	32.306	32.558	32.811	33.065	33.320	33.575	33.832	34.090	34.349	34.609
270	34.870	35.132	35.395	35.659	35.924	36.190	36.457	36.725	36.994	37.264
280	37.535	37.807	38.080	38.354	38.630	38.906	39.183	39.461	39.740	40.021
290	40.302	40.584	40.868	41.152	41.438	41.724	42.011	42.300	42.590	42.880
300	43.172	43.464	43.758	44.053	44.348	44.645	44.943	45.242	45.542	45.843
310	46.144	46.447	46.751	47.057	47.363	47.670	47.978	48.287	48.597	48.909
320	49.221	49.534	49.849	50.164	50.481	50.798	51.117	51.437	51.757	52.079
330	52.402	52.726	53.051	53.377	53.704	54.032	54.361	54.691	55.022	55.354
340	55.688	56.022	56.358	56.694	57.032	57.370	57.710	58.051	58.393	58.735
350	59.079	59.424	59.770	60.117	60.466	60.815	61.165	61.517	61.869	62.223
360	62.577	62.933	63.290	63.647	64.006	64.366	64.727	65.089	65.452	65.817
370	66.182	66.548	66.916	67.284	67.654	68.025	68.397	68.769	69.143	69.518
380	69.895	70.272	70.650	71.029	71.410	71.792	72.174	72.558	72.943	73.329
390	73.716	74.104	74.493	74.883	75.275	75.667	76.061	76.455	76.851	77.248
400	77.646	78.045	78.445	78.847	79.249	79.652	80.057	80.463	80.869	81.277
410	81.686	82.096	82.508	82.920	83.333	83.748	84.164	84.581	84.998	85.417
420	85.838	86.259	86.681	87.105	87.529	87.955	88.382	88.810	89.239	89.669
430	90.100	90.533	90.966	91.401	91.837	92.274	92.712	93.151	93.592	94.033
440	94.476	94.920	95.364	95.810	96.258	96.706	97.155	97.606	98.058	98.511
450	98.965	99.420	99.876	100.333	100.792	101.252	101.713	102.175	102.638	103.102
460	103.568	104.034	104.502	104.971	105.441	105.912	106.385	106.858	107.333	107.809
470	108.286	108.764	109.243	109.724	110.206	110.689	111.173	111.658	112.144	112.632
480	113.120	113.610	114.101	114.593	115.087	115.581	116.077	116.574	117.072	117.571
490	118.072	118.574	119.076	119.580	120.086	120.592	121.099	121.608	122.118	122.629
500	123.142	123.655	124.170	124.686	125.203	125.721	126.240	126.761	127.283	127.806
510	128.330	128.856	129.382	129.910	130.439	130.970	131.501	132.034	132.568	133.103
520	133.639	134.177	134.716	135.255	135.797	136.339	136.883	137.428	137.974	138.521
530	139.069	139.619	140.170	140.722	141.276	141.830	142.386	142.943	143.501	144.061
540	144.622	145.184	145.747	146.312	146.877	147.444	148.012	148.582	149.153	149.724
550	150.298	150.872	151.448	152.025	152.603	153.182	153.763	154.345	154.928	155.512
560	156.098	156.685	157.273	157.863	158.453	159.045	159.639	160.233	160.829	161.426
570	162.024	162.624	163.225	163.827	164.430	165.035	165.641	166.248	166.856	167.466
580	168.077	168.689	169.303	169.918	170.534	171.152	171.770	172.390	173.012	173.634
590	174.258	174.883	175.510	176.138	176.767	177.397	178.029	178.662	179.296	179.932

TABLE IV. - IMPACT PRESSURE IN MILLIBARS (HECTOPASCALS) FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR - Continued

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
600	180.568	181.207	181.846	182.487	183.129	183.773	184.417	185.063	185.711	186.359
610	187.005	187.661	188.313	188.967	189.623	190.279	190.937	191.596	192.257	192.919
620	193.582	194.247	194.913	195.580	196.249	196.919	197.590	198.262	198.936	199.612
630	200.286	200.966	201.646	202.326	203.008	203.692	204.376	205.062	205.750	206.439
640	207.125	207.820	208.513	209.207	209.903	210.600	211.298	211.998	212.699	213.401
650	214.105	214.810	215.517	216.225	216.934	217.645	218.357	219.070	219.785	220.501
660	221.215	221.938	222.658	223.380	224.103	224.827	225.553	226.281	227.009	227.740
670	228.471	229.204	229.938	230.674	231.411	232.150	232.890	233.631	234.374	235.118
680	235.804	236.611	237.455	238.109	238.860	239.613	240.367	241.122	241.879	242.638
690	243.398	244.159	244.922	245.686	246.451	247.216	247.987	248.756	249.528	250.301
700	251.075	251.850	252.627	253.406	254.186	254.967	255.750	256.535	257.321	258.108
710	258.697	259.487	260.278	261.072	261.866	262.662	263.460	264.259	265.059	265.861
720	266.665	267.469	268.276	269.084	269.893	270.703	271.516	272.330	273.145	273.962
730	274.980	275.800	276.621	277.444	278.268	279.094	279.921	280.750	281.580	282.412
740	283.245	284.080	284.917	285.754	286.594	287.435	288.277	289.121	289.966	290.813
750	291.662	292.512	293.363	294.216	295.071	295.927	296.785	297.644	298.504	299.367
760	300.230	301.096	301.963	302.831	303.701	304.573	305.446	306.320	307.197	308.074
770	308.954	309.835	310.717	311.601	312.487	313.374	314.263	315.153	316.045	316.938
780	317.833	318.730	319.628	320.528	321.429	322.332	323.237	324.143	325.050	325.960
790	326.871	327.783	328.697	329.613	330.530	331.449	332.370	333.292	334.215	335.141
800	336.068	336.996	337.926	338.858	339.792	340.727	341.663	342.602	343.542	344.483
810	345.426	346.371	347.318	348.266	349.215	350.167	351.120	352.074	353.031	353.989
820	354.946	355.910	356.872	357.837	358.803	359.771	360.741	361.712	362.685	363.659
830	364.636	365.614	366.593	367.574	368.557	369.542	370.528	371.516	372.506	373.497
840	374.490	375.485	376.481	377.479	378.479	379.481	380.484	381.489	382.495	383.504
850	384.514	385.526	386.539	387.554	388.571	389.590	390.610	391.632	392.656	393.681
860	394.705	395.738	396.768	397.801	398.835	399.871	400.908	401.948	402.989	404.032
870	405.077	406.123	407.171	408.221	409.273	410.326	411.381	412.438	413.497	414.558
880	415.620	416.684	417.750	418.821	419.887	420.958	422.031	423.105	424.182	425.260
890	426.340	427.422	428.506	429.591	430.679	431.768	432.859	433.951	435.046	436.142
900	437.240	438.340	439.442	440.546	441.651	442.758	443.867	444.978	446.091	447.206
910	448.322	449.440	450.560	451.682	452.806	453.932	455.059	456.188	457.319	458.452
920	459.587	460.724	461.863	463.003	464.145	465.290	466.436	467.584	468.733	469.885
930	471.039	472.194	473.352	474.511	475.672	476.835	478.000	479.167	480.335	481.506
940	482.678	483.853	485.029	486.207	487.388	488.570	489.754	490.939	492.127	493.317
950	494.509	495.702	496.898	498.095	499.295	500.496	501.699	502.905	504.112	505.321
960	506.532	507.745	508.960	510.177	511.396	512.617	513.839	515.064	516.291	517.520
970	518.750	519.983	521.218	522.454	523.693	524.934	526.176	527.421	528.668	529.916
980	531.167	532.419	533.674	534.930	536.189	537.450	538.712	539.977	541.244	542.512
990	543.783	545.056	546.331	547.607	548.886	550.167	551.450	552.735	554.022	555.311
1000	556.602	557.895	559.191	560.488	561.787	563.088	564.392	565.697	567.005	568.315
1010	569.626	570.940	572.256	573.574	574.894	576.216	577.540	578.867	580.195	581.526
1020	582.856	584.193	585.530	586.869	588.210	589.553	590.898	592.246	593.595	594.947
1030	596.301	597.657	599.015	600.375	601.737	603.102	604.468	605.837	607.208	608.581
1040	609.956	611.333	612.713	614.095	615.478	616.864	618.253	619.643	621.036	622.430
1050	623.827	625.226	626.627	628.031	629.437	630.844	632.254	633.667	635.081	636.498
1060	637.917	639.338	640.761	642.186	643.614	645.044	646.476	647.911	649.347	650.786
1070	652.227	653.671	655.116	656.564	658.014	659.466	660.921	662.378	663.837	665.298
1080	666.762	668.228	669.696	671.166	672.639	674.114	675.591	677.071	678.553	680.037
1090	681.523	683.012	684.503	685.996	687.492	688.990	690.490	691.993	693.498	695.005
1100	696.515	698.026	699.541	701.057	702.576	704.097	705.621	707.147	708.675	710.206
1110	711.748	713.274	714.811	716.351	717.894	719.439	720.986	722.535	724.087	725.641
1120	727.198	728.757	730.319	731.882	733.449	735.017	736.588	738.162	739.737	741.316
1130	742.846	744.429	746.015	747.603	749.193	750.786	752.381	754.025	755.629	757.231
1140	758.836	760.444	762.054	763.666	765.281	766.898	768.518	770.140	771.765	773.392
1150	775.021	776.653	778.288	779.925	781.565	783.207	784.851	786.498	788.148	789.800
1160	791.454	793.111	794.771	796.433	798.098	799.765	801.435	803.107	804.781	806.459
1170	808.139	809.821	811.506	813.193	814.883	816.576	818.271	819.969	821.669	823.372
1180	825.077	826.785	828.496	830.209	831.925	833.643	835.364	837.088	838.814	840.543
1190	842.274	844.008	845.745	847.484	849.226	850.970	852.717	854.467	856.219	857.974

TABLE IV.- IMPACT PRESSURE IN MILLIBARS (HECTOPASCALS) FOR VALUES OF CALIBRATED AIRSPEED IN KILOMETERS PER HOUR - Concluded

Calibrated airspeed, km/hr	0	1	2	3	4	5	6	7	8	9
1200	859.732	861.492	863.255	865.021	866.789	868.560	870.333	872.109	873.888	875.670
1210	877.454	879.241	881.031	882.823	884.618	886.416	888.216	890.019	891.825	893.633
1220	895.444	897.258	899.075	900.894	902.716	905.072	906.901	908.732	910.567	912.404
1230	914.244	916.086	917.932	919.780	921.630	923.484	925.340	927.198	929.060	930.924
1240	932.791	934.660	936.532	938.407	940.284	942.164	944.047	945.932	947.820	949.711
1250	951.604	953.500	955.397	957.300	959.204	961.110	963.019	964.930	966.845	968.761
1260	970.681	972.633	974.527	976.454	978.384	980.316	982.251	984.189	986.128	988.071
1270	990.016	991.964	993.914	995.867	997.822	999.780	1001.740	1003.703	1005.668	1007.636
1280	1009.607	1011.580	1013.555	1015.533	1017.514	1019.497	1021.482	1023.470	1025.461	1027.454
1290	1029.449	1031.447	1033.448	1035.451	1037.456	1039.464	1041.474	1043.487	1045.503	1047.520
1300	1049.541	1051.563	1053.588	1055.616	1057.646	1059.679	1061.713	1063.751	1065.791	1067.833
1310	1069.877	1071.925	1073.974	1076.026	1078.080	1080.137	1082.196	1084.258	1086.322	1088.388
1320	1090.457	1092.528	1094.602	1096.678	1098.756	1100.837	1102.920	1105.006	1107.093	1109.184
1330	1111.276	1113.371	1115.465	1117.569	1119.671	1121.775	1123.882	1125.991	1128.103	1130.217
1340	1132.333	1134.452	1136.573	1138.696	1140.822	1142.950	1145.080	1147.213	1149.348	1151.485
1350	1153.625	1155.767	1157.911	1160.058	1162.207	1164.358	1166.511	1168.667	1170.825	1172.986
1360	1175.149	1177.314	1179.481	1181.651	1183.823	1185.997	1188.174	1190.353	1192.534	1194.717
1370	1196.903	1199.091	1201.281	1203.474	1205.669	1207.866	1210.065	1212.267	1214.471	1216.677
1380	1218.885	1221.096	1223.309	1225.524	1227.742	1229.961	1232.183	1234.408	1236.634	1238.863
1390	1241.094	1243.327	1245.562	1247.800	1250.040	1252.282	1254.527	1256.773	1259.022	1261.273
1400	1263.526	1265.782	1268.040	1270.300	1272.562	1274.826	1277.093	1279.361	1281.632	1283.906
1410	1286.181	1288.459	1290.739	1293.021	1295.305	1297.591	1299.880	1302.171	1304.464	1306.759
1420	1309.057	1311.356	1313.658	1315.962	1318.268	1320.576	1322.887	1325.200	1327.515	1329.832
1430	1332.151	1334.472	1336.796	1339.122	1341.449	1343.780	1346.112	1348.446	1350.783	1353.121
1440	1355.462	1357.805	1360.151	1362.498	1364.847	1367.199	1369.553	1371.909	1374.267	1376.627
1450	1378.990	1381.354	1383.721	1386.090	1388.461	1390.834	1393.209	1395.586	1397.966	1400.347
1460	1402.731	1405.117	1407.505	1409.895	1412.288	1414.682	1417.078	1419.477	1421.878	1424.281
1470	1426.686	1429.093	1431.502	1433.913	1436.327	1438.742	1441.160	1443.580	1446.002	1448.426
1480	1450.852	1453.280	1455.710	1458.143	1460.577	1463.014	1465.452	1467.893	1470.336	1472.781
1490	1475.228	1477.677	1480.128	1482.582	1485.037	1487.495	1489.954	1492.416	1494.880	1497.346
1500	1499.813	1502.283	1504.756	1507.230	1509.706	1512.184	1514.665	1517.147	1519.632	1522.118
1510	1524.607	1527.098	1529.590	1532.085	1534.582	1537.081	1539.582	1542.085	1544.590	1547.098
1520	1549.603	1552.118	1554.632	1557.147	1559.665	1562.184	1564.706	1567.230	1569.755	1572.283
1530	1574.813	1577.345	1579.875	1582.415	1584.953	1587.493	1590.035	1592.579	1595.125	1597.673
1540	1600.223	1602.776	1605.330	1607.886	1610.445	1613.005	1615.568	1618.132	1620.699	1623.267
1550	1625.838	1628.410	1630.985	1633.562	1636.140	1638.721	1641.304	1643.888	1646.475	1649.064
1560	1651.655	1654.248	1656.842	1659.439	1662.038	1664.634	1667.242	1669.847	1672.454	1675.063
1570	1677.674	1680.287	1682.902	1685.519	1688.138	1690.759	1693.382	1696.007	1698.634	1701.263
1580	1703.894	1706.527	1709.162	1711.799	1714.438	1717.079	1719.722	1722.367	1725.014	1727.663
1590	1730.314	1732.967	1735.622	1738.279	1740.934	1743.599	1746.262	1748.927	1751.594	1754.262
1600	1756.933	1759.606	1762.281	1764.958	1767.637	1770.318	1773.000	1775.685	1778.372	1781.061
1610	1783.751	1786.444	1789.139	1791.836	1794.534	1797.235	1799.937	1802.642	1805.348	1808.057
1620	1810.767	1813.480	1816.194	1818.911	1821.629	1824.349	1827.072	1829.796	1832.522	1835.250
1630	1837.981	1840.713	1843.447	1846.183	1848.921	1851.661	1854.403	1857.147	1859.893	1862.640
1640	1865.390	1868.142	1870.896	1873.651	1876.409	1879.168	1881.930	1884.693	1887.459	1890.226
1650	1892.996	1895.767	1898.540	1901.315	1904.092	1906.871	1909.652	1912.435	1915.220	1918.007
1660	1920.796	1923.587	1926.380	1929.174	1931.971	1934.769	1937.570	1940.372	1943.177	1945.983
1670	1948.791	1951.601	1954.414	1957.228	1960.044	1962.862	1965.681	1968.503	1971.327	1974.153
1680	1976.980	1979.810	1982.641	1985.475	1988.310	1991.147	1993.987	1996.828	1999.671	2002.516
1690	2005.363	2008.212	2011.062	2013.915	2016.770	2019.626	2022.485	2025.345	2028.208	2031.072
1700	2031.950									

TABLE V.- IMPACT PRESSURE IN MILLIMETERS OF MERCURY FOR VALUES OF CALIBRATED AIRSPEED IN KNOTS

Calibrated airspeed, knots	0	1	2	3	4	5	6	7	8	9
C	C.000	.001	.005	.011	.019	.030	.044	.060	.078	.098
10	.122	.147	.175	.205	.238	.274	.311	.351	.394	.439
20	.486	.536	.589	.643	.701	.760	.822	.887	.954	1.023
30	1.095	1.169	1.246	1.325	1.406	1.490	1.576	1.666	1.757	1.851
40	1.947	2.046	2.147	2.250	2.356	2.465	2.576	2.689	2.805	2.923
50	3.044	3.167	3.293	3.421	3.551	3.684	3.820	3.958	4.098	4.241
60	4.386	4.534	4.684	4.837	4.992	5.149	5.309	5.472	5.637	5.804
70	5.974	6.147	6.322	6.499	6.679	6.861	7.046	7.233	7.423	7.615
80	7.810	8.007	8.207	8.409	8.614	8.821	9.030	9.243	9.457	9.674
90	9.894	10.116	10.341	10.568	10.798	11.030	11.264	11.502	11.741	11.983
100	12.228	12.475	12.725	12.977	13.232	13.489	13.749	14.012	14.276	14.544
110	14.814	15.086	15.361	15.639	15.919	16.201	16.487	16.774	17.065	17.357
120	17.653	17.951	18.251	18.554	18.860	19.168	19.479	19.792	20.108	20.426
130	20.747	21.071	21.397	21.725	22.057	22.391	22.727	23.066	23.408	23.752
140	24.095	24.448	24.800	25.155	25.512	25.872	26.234	26.599	26.967	27.337
150	27.710	28.086	28.464	28.845	29.228	29.614	30.003	30.394	30.788	31.184
160	31.584	31.986	32.390	32.797	33.207	33.620	34.035	34.453	34.873	35.296
170	35.722	36.151	36.582	37.016	37.452	37.892	38.333	38.778	39.225	39.675
180	40.128	40.584	41.042	41.503	41.966	42.433	42.902	43.373	43.848	44.325
190	44.805	45.288	45.773	46.261	46.752	47.246	47.742	48.242	48.743	49.248
200	49.756	50.266	50.779	51.295	51.813	52.335	52.859	53.386	53.916	54.448
210	54.584	55.122	55.663	56.207	56.753	57.303	57.855	58.410	58.968	59.529
220	61.053	61.628	62.207	62.791	63.376	63.964	64.555	65.148	65.744	66.342
230	66.286	66.881	67.479	68.080	68.684	69.291	69.900	70.513	71.128	71.747
240	72.368	72.992	73.620	74.251	74.883	75.519	76.158	76.800	77.445	78.092
250	78.743	79.397	80.054	80.713	81.376	82.042	82.710	83.382	84.057	84.735
260	85.415	86.099	86.786	87.475	88.168	88.864	89.563	90.265	90.970	91.678
270	92.389	93.103	93.820	94.541	95.264	95.991	96.720	97.453	98.189	98.927
280	95.669	100.414	101.163	101.914	102.668	103.426	104.187	104.951	105.718	106.488
290	107.261	108.038	108.817	109.600	110.386	111.176	111.968	112.764	113.562	114.365
300	115.170	115.978	116.790	117.605	118.423	119.244	120.069	120.897	121.728	122.563
310	123.400	124.241	125.086	125.933	126.784	127.638	128.496	129.357	130.221	131.088
320	131.959	132.833	133.710	134.591	135.475	136.363	137.254	138.148	139.045	139.946
330	140.851	141.759	142.670	143.584	144.502	145.424	146.349	147.277	148.209	149.144
340	150.082	151.025	151.970	152.919	153.872	154.828	155.787	156.750	157.717	158.687
350	159.660	160.637	161.618	162.602	163.590	164.581	165.576	166.574	167.576	168.581
360	169.590	170.603	171.619	172.639	173.663	174.690	175.720	176.754	177.793	178.835
370	179.880	180.929	181.982	183.038	184.098	185.162	186.229	187.300	188.375	189.454
380	190.536	191.622	192.712	193.805	194.902	196.003	197.108	198.217	199.329	200.445
390	201.565	202.689	203.817	204.948	206.084	207.223	208.366	209.512	210.663	211.818
400	212.976	214.138	215.305	216.475	217.649	218.827	220.009	221.195	222.384	223.578
410	224.776	225.978	227.183	228.393	229.606	230.824	232.046	233.271	234.501	235.735
420	236.973	238.214	239.460	240.710	241.964	243.222	244.485	245.751	247.021	248.296
430	249.575	250.858	252.144	253.436	254.731	256.030	257.334	258.642	259.954	261.270
440	262.591	263.915	265.244	266.578	267.915	269.257	270.603	271.953	273.307	274.666
450	276.030	277.357	278.689	280.025	281.365	282.709	284.050	285.693	287.091	288.493
460	289.900	291.311	292.727	294.147	295.572	297.001	298.434	299.872	301.314	302.761
470	304.212	305.668	307.129	308.594	310.063	311.536	313.016	314.499	315.986	317.479
480	318.576	320.077	321.583	323.094	324.610	326.130	327.654	329.181	330.711	332.245
490	334.200	335.748	337.301	338.859	340.421	341.988	343.560	345.137	346.719	348.305

TABLE V. - IMPACT PRESSURE IN MILLIMETERS OF MERCURY FOR VALUES OF CALIBRATED AIRSPEED IN KNOTS - Concluded

Calibrated airspeed, knots	0	1	2	3	4	5	6	7	8	9
500	345.896	351.492	353.093	354.698	356.309	357.924	359.544	361.169	362.799	364.434
510	366.674	367.719	369.369	371.023	372.683	374.347	376.017	377.692	379.371	381.056
520	382.745	384.440	386.140	387.845	389.554	391.269	392.989	394.715	396.445	398.180
530	399.521	401.667	403.418	405.174	406.935	408.702	410.473	412.250	414.032	415.820
540	417.613	419.411	421.214	423.023	424.836	426.656	428.480	430.310	432.146	433.986
550	435.832	437.684	439.541	441.403	443.271	445.144	447.023	448.907	450.796	452.692
560	454.592	456.499	458.410	460.328	462.250	464.179	466.113	468.053	469.998	471.949
570	473.905	475.868	477.835	479.809	481.788	483.773	485.764	487.760	489.763	491.771
580	493.784	495.804	497.829	499.860	501.897	503.940	505.989	508.044	510.104	512.171
590	514.242	516.321	518.405	520.495	522.592	524.694	526.802	528.916	531.036	533.162
600	535.295	537.433	539.577	541.728	543.884	546.047	548.216	550.391	552.572	554.760
610	556.554	558.753	561.359	563.572	565.790	568.015	570.246	572.484	574.728	576.978
620	579.234	581.497	583.767	586.042	588.324	590.613	592.908	595.209	597.517	599.831
630	602.152	604.460	606.813	609.154	611.501	613.855	616.215	618.582	620.955	623.335
640	625.722	628.115	630.516	632.923	635.336	637.756	640.184	642.617	645.058	647.506
650	648.560	652.421	654.889	657.364	659.846	662.334	664.830	667.333	669.842	672.358
660	674.882	677.412	679.948	682.492	685.044	687.602	690.168	692.740	695.319	697.906
670	700.499	703.099	705.705	708.319	710.939	713.566	716.200	718.841	721.488	724.142
680	726.803	729.471	732.145	734.825	737.513	740.207	742.907	745.614	748.328	751.048
690	753.774	756.508	759.247	761.993	764.746	767.505	770.270	773.042	775.820	778.605
700	781.396	784.192	786.997	789.807	792.623	795.445	798.274	801.109	803.951	806.798
710	809.652	812.512	815.378	818.250	821.129	824.014	826.904	829.801	832.704	835.613
720	838.525	841.450	844.378	847.311	850.250	853.196	856.148	859.105	862.069	865.038
730	868.014	870.995	873.983	876.976	879.976	882.981	885.992	889.009	892.032	895.061
740	898.094	901.137	904.183	907.235	910.294	913.358	916.427	919.503	922.585	925.672
750	928.765	931.863	934.968	938.078	941.194	944.316	947.443	950.577	953.716	956.860
760	960.010	963.166	966.328	969.495	972.668	975.847	979.031	982.221	985.417	988.618
770	991.825	995.037	998.255	1001.478	1004.708	1007.942	1011.183	1014.428	1017.680	1020.937
780	1024.195	1027.467	1030.741	1034.020	1037.304	1040.594	1043.890	1047.191	1050.498	1053.810
790	1057.127	1060.450	1063.779	1067.112	1070.452	1073.797	1077.147	1080.502	1083.863	1087.230
800	1090.602	1093.979	1097.362	1100.750	1104.143	1107.542	1110.946	1114.356	1117.771	1121.191
810	1124.617	1128.048	1131.484	1134.926	1138.373	1141.825	1145.283	1148.746	1152.214	1155.687
820	1159.166	1162.651	1166.140	1169.635	1173.135	1176.640	1180.151	1183.666	1187.188	1190.714
830	1194.246	1197.782	1201.325	1204.872	1208.424	1211.982	1215.545	1219.114	1222.687	1226.266
840	1229.850	1233.439	1237.033	1240.632	1244.237	1247.847	1251.462	1255.082	1258.707	1262.338
850	1265.974	1269.615	1273.261	1276.912	1280.568	1284.230	1287.896	1291.568	1295.245	1298.927
860	1302.614	1306.306	1310.004	1313.706	1317.414	1321.127	1324.844	1328.567	1332.295	1336.028
870	1339.767	1343.510	1347.258	1351.012	1354.770	1358.534	1362.302	1366.076	1369.855	1373.639
880	1377.428	1381.222	1385.021	1388.825	1392.634	1396.448	1400.267	1404.092	1407.921	1411.755
890	1415.594	1419.439	1423.288	1427.142	1431.002	1434.866	1438.736	1442.610	1446.489	1450.374
900	1454.263	1458.158	1462.057	1465.961	1469.871	1473.785	1477.704	1481.629	1485.558	1489.492
910	1493.431	1497.375	1501.325	1505.279	1509.238	1513.202	1517.171	1521.145	1525.124	1529.107
920	1533.096	1537.090	1541.088	1545.092	1549.101	1553.114	1557.132	1561.156	1565.184	1569.217
930	1573.255	1577.298	1581.346	1585.399	1589.456	1593.519	1597.587	1601.659	1605.736	1609.819
940	1613.506	1617.998	1622.095	1626.197	1630.303	1634.415	1638.531	1642.653	1646.779	1650.910
950	1655.046	1659.187	1663.333	1667.483	1671.639	1675.799	1679.964	1684.134	1688.309	1692.489
960	1696.674	1700.863	1705.058	1709.257	1713.461	1717.671	1721.884	1726.102	1730.326	1734.554
970	1738.787	1743.055	1747.268	1751.516	1755.768	1760.025	1764.288	1768.555	1772.826	1777.103
980	1781.384	1785.671	1789.962	1794.258	1798.558	1802.864	1807.174	1811.489	1815.809	1820.134
990	1824.463	1828.798	1833.137	1837.481	1841.830	1846.183	1850.542	1854.905	1859.273	1863.645
1000	1868.023									

TABLE VI.- IMPACT PRESSURE IN PASCALS (NEWTONS PER SQUARE METER) FOR VALUES OF CALIBRATED AIRSPEED IN KNOTS

Calibrated airspeed, knots	0	1	2	3	4	5	6	7	8	9
0	0.000	.162	.648	1.459	2.594	4.053	5.836	7.943	10.375	13.131
10	16.211	19.615	23.344	27.398	31.775	36.477	41.504	46.855	52.530	58.530
20	64.855	78.478	93.400	108.622	125.199	143.171	162.587	183.400	204.668	227.343
30	145.965	175.864	166.088	176.637	187.511	198.711	210.237	222.089	234.266	246.768
40	259.557	272.752	286.233	300.040	314.173	328.632	343.518	358.831	373.970	388.736
50	405.829	422.249	438.996	456.070	473.472	491.201	509.257	527.641	546.353	565.393
60	584.761	604.457	624.486	644.835	665.517	686.527	707.867	729.533	751.533	773.860
70	796.516	819.502	842.818	866.464	890.440	914.747	939.383	964.351	989.649	1015.279
80	1041.239	1067.531	1094.154	1121.109	1148.396	1176.015	1203.966	1232.250	1260.866	1289.815
90	1319.098	1348.713	1378.662	1408.945	1439.561	1470.512	1501.796	1533.416	1565.370	1597.659
100	1630.283	1663.242	1696.537	1730.168	1764.135	1798.438	1833.078	1868.055	1903.368	1939.019
110	1975.007	2011.333	2047.997	2085.000	2122.340	2160.020	2198.039	2236.396	2275.094	2314.131
120	2353.508	2393.226	2433.284	2473.683	2514.423	2555.505	2596.928	2638.693	2680.801	2723.251
130	2766.044	2809.181	2852.660	2896.484	2940.651	2985.163	3030.020	3075.221	3120.768	3166.661
140	3212.899	3256.415	3300.415	3344.983	3401.318	3459.420	3497.611	3546.280	3595.297	3644.663
150	3694.378	3744.443	3794.858	3845.623	3896.738	3948.205	4000.022	4052.191	4104.713	4157.586
160	4210.813	4264.392	4318.325	4372.611	4427.252	4482.248	4537.598	4593.303	4649.365	4705.782
170	4762.556	4818.687	4877.174	4935.020	4993.224	5051.786	5110.706	5169.987	5229.626	5289.626
180	5349.986	5410.707	5471.790	5533.234	5595.040	5657.209	5719.741	5782.636	5845.895	5909.519
190	5973.507	6037.860	6102.579	6167.664	6233.115	6298.933	6365.119	6431.672	6498.594	6565.885
200	6633.544	6701.574	6769.973	6838.743	6907.885	6977.398	7047.282	7117.540	7188.170	7259.174
210	7330.552	7402.304	7474.431	7546.934	7619.812	7693.067	7766.699	7840.709	7915.096	7989.862
220	8065.007	8140.531	8216.435	8292.720	8369.386	8446.433	8523.863	8601.675	8679.870	8758.449
230	8837.412	8916.760	8996.494	9076.613	9157.119	9238.011	9319.291	9400.960	9483.017	9565.463
240	9648.298	9731.525	9815.142	9899.150	9983.549	10068.341	10153.532	10239.111	10325.086	10411.455
250	10498.220	10585.382	10672.940	10760.895	10849.251	10938.004	11027.152	11116.703	11206.654	11297.007
260	11387.761	11478.917	11570.476	11662.439	11754.805	11847.577	11940.754	12034.337	12128.326	12222.723
270	12317.528	12412.762	12508.365	12604.398	12700.841	12797.693	12894.962	12992.641	13090.734	13189.240
280	13288.161	13387.497	13487.249	13587.418	13688.004	13789.008	13890.430	13992.273	14094.535	14197.218
290	14300.322	14403.849	14507.799	14612.172	14716.970	14822.192	14927.841	15033.915	15140.418	15247.348
300	15354.706	15462.495	15570.713	15679.362	15788.443	15897.956	16007.903	16118.283	16229.098	16340.348
310	16452.035	16566.158	16676.720	16789.719	16903.158	17017.037	17131.357	17246.118	17361.321	17476.968
320	17593.059	17709.594	17826.575	17944.003	18061.877	18180.200	18298.971	18418.191	18537.863	18657.985
330	18778.559	18897.586	19021.067	19144.003	19265.393	19388.240	19511.544	19635.306	19759.527	19884.207
340	20009.347	20134.949	20261.013	20387.540	20514.530	20641.986	20769.907	20898.294	21027.149	21156.472
350	21286.264	21416.527	21547.260	21678.465	21810.142	21942.293	22074.919	22208.020	22341.597	22475.652
360	22610.184	22745.196	22880.688	23016.660	23153.115	23290.052	23427.473	23565.378	23703.769	23842.647
370	23982.012	24121.865	24262.208	24403.041	24544.366	24686.183	24828.493	24971.297	25114.596	25258.392
380	25402.685	25547.476	25692.765	25838.556	25984.847	26131.640	26278.936	26426.737	26575.043	26723.854
390	26873.173	27023.000	27173.337	27324.183	27475.541	27627.411	27779.794	27932.692	28086.105	28240.035
400	28394.482	28549.447	28704.933	28860.939	29017.466	29174.517	29332.091	29490.190	29648.816	29807.968
410	29967.049	30127.859	30288.599	30449.871	30611.675	30774.013	30936.986	31100.595	31264.840	31428.724
420	31593.748	31759.311	31925.416	32092.064	32259.255	32426.992	32595.274	32764.104	32933.482	33103.409
430	33273.887	33444.917	33616.500	33788.637	33961.330	34134.579	34308.388	34482.751	34657.677	34833.164
440	35009.213	35185.826	35363.004	35540.748	35719.059	35897.939	36077.388	36257.409	36438.001	36619.167
450	36800.907	36983.224	37166.117	37349.589	37533.640	37718.273	37903.487	38089.285	38275.667	38462.635
460	38650.190	38838.334	39027.068	39216.392	39406.309	39596.819	39787.925	39979.626	40171.925	40364.823
470	40558.320	40752.419	40947.121	41142.427	41338.339	41534.857	41731.983	41929.719	42128.065	42326.023
480	42526.595	42726.782	42927.584	43129.005	43331.044	43533.703	43736.984	43940.888	44145.417	44350.571
490	44556.352	44762.762	44969.802	45177.474	45385.778	45594.716	45804.290	46014.531	46225.531	46436.840

TABLE VI.- IMPACT PRESSURE IN PASCALS (NEWTONS PER SQUARE METER) FOR VALUES OF CALIBRATED AIRSPEED IN KNOTS - Concluded

Calibrated airspeed, knots	0	1	2	3	4	5	6	7	8	9
500	46648.871	46861.744	47075.162	47289.225	47503.936	47719.295	47935.304	48151.965	48369.279	48587.247
510	48805.971	49025.152	49245.092	49465.693	49686.966	49908.882	50131.472	50354.730	50578.655	50803.249
520	51028.515	51254.453	51481.065	51708.352	51936.317	52164.960	52394.283	52624.288	52854.977	53086.350
530	53318.409	53551.157	53784.594	54018.722	54255.543	54489.058	54725.269	54962.218	55199.866	55438.094
540	55677.105	55916.819	56157.239	56398.496	56640.203	56882.058	57126.008	57369.981	57614.668	57860.073
550	58106.196	58353.040	58600.606	58848.996	59097.919	59347.652	59598.123	59849.324	60101.257	60353.924
560	60607.326	60861.466	61116.345	61371.964	61628.326	61885.432	62143.283	62401.883	62661.231	62921.331
570	63182.183	63443.791	63706.154	63969.276	64233.157	64497.800	64763.207	65029.379	65296.318	65564.026
580	65832.504	66101.755	66371.780	66642.582	66914.151	67186.520	67459.660	67733.584	68008.293	68283.789
590	68560.075	68837.151	69115.019	69393.683	69673.142	69953.400	70234.459	70516.319	70798.983	71082.453
600	71366.731	71651.818	71937.718	72224.430	72511.958	72800.394	73089.469	73379.455	73670.264	73961.898
610	74254.360	74547.659	74841.772	75136.727	75432.516	75729.143	76026.609	76324.915	76624.065	76924.059
620	77224.901	77526.591	77829.133	78132.527	78436.777	78741.884	79047.850	79354.677	79662.367	79970.923
630	80280.346	80590.639	80901.803	81213.841	81526.755	81840.546	82155.217	82470.770	82787.208	83104.531
640	83422.743	83741.846	84061.841	84382.731	84704.519	85027.203	85350.790	85675.281	86000.677	86326.981
650	86654.194	86982.320	87311.360	87641.316	87972.191	88303.987	88636.706	88970.351	89304.923	89640.424
660	89876.858	90214.226	90552.307	90991.547	91331.719	91672.882	92014.852	92357.608	92701.685	93046.482
670	93392.195	93738.422	94086.367	94434.808	94783.162	95131.441	95480.577	95830.484	96180.587	96544.434
680	96899.172	97254.799	97611.313	97968.711	98326.991	98686.150	99046.187	99407.099	99768.884	100131.539
690	100495.063	100859.454	101224.708	101590.825	101957.802	102325.636	102694.327	103063.872	103434.268	103805.514
700	104177.609	104550.549	104924.334	105298.860	105674.427	106050.532	106427.874	106805.851	107184.660	107564.301
710	107944.771	108326.659	108708.192	109091.140	109474.910	109859.800	110244.910	110631.137	111018.180	111406.037
720	111794.706	112184.186	112574.476	112965.573	113357.477	113750.193	114143.696	114538.009	114933.122	115329.034
730	115725.742	116123.247	116521.546	116920.637	117320.520	117721.195	118122.655	118524.904	118927.939	119331.758
740	119736.361	120141.745	120547.911	120954.855	121362.576	121771.076	122180.351	122590.400	123001.222	123412.815
750	123625.179	124038.312	124452.214	124866.889	125282.316	125698.501	126115.446	126533.150	126951.616	127370.931
760	127990.935	128411.697	128833.216	129255.490	129678.518	130102.301	130526.835	130952.121	131378.157	131804.942
770	132232.476	132660.757	133089.784	133519.556	133950.079	134381.332	134813.334	135246.078	135679.561	136113.785
780	136548.746	136984.445	137420.681	137858.452	138297.759	138738.599	139179.972	139618.884	140054.914	140496.480
790	140938.777	141381.802	141825.555	142270.034	142715.240	143161.171	143607.827	144055.206	144503.308	144952.133
800	145401.678	145851.944	146302.930	146754.634	147207.057	147660.197	148114.053	148568.626	149023.913	149479.915
810	149936.631	150394.060	150852.200	151311.053	151770.616	152230.889	152691.871	153153.562	153615.961	154079.068
820	154542.981	155007.400	155472.624	155938.553	156405.186	156872.522	157340.561	157809.302	158278.745	158748.888
830	159219.731	159691.274	160163.515	160636.455	161110.093	161584.428	162059.459	162535.186	163011.608	163488.726
840	163966.537	164445.042	164924.239	165404.130	165884.712	166365.985	166847.949	167330.604	167813.948	168297.981
850	168782.702	169268.112	169754.209	170240.993	170728.464	171216.621	171705.461	172194.990	172685.201	173176.096
860	173667.675	174159.936	174652.880	175146.506	175640.816	176135.802	176631.471	177127.819	177624.848	178122.555
870	178620.941	179120.005	179619.747	180120.166	180621.262	181123.034	181625.482	182128.609	182632.404	183136.877
880	183642.025	184147.846	184654.340	185161.504	185669.346	186177.858	186687.041	187196.895	187707.421	188218.616
890	188730.482	189243.017	189756.221	190270.097	190784.636	191299.845	191815.732	192332.267	192849.478	193367.356
900	193885.899	194405.109	194924.984	195445.524	195966.728	196488.597	197011.130	197534.326	198058.185	198582.708
910	199107.892	199633.739	200160.248	200687.418	201215.249	201743.741	202272.894	202802.706	203333.178	203864.310
920	204396.101	204928.550	205461.658	205995.425	206529.849	207064.930	207600.669	208137.064	208674.116	209211.825
930	209750.169	210289.209	210828.884	211369.214	211910.199	212451.838	212994.132	213537.079	214080.680	214624.935
940	215169.842	215715.402	216261.614	216808.478	217355.995	217904.162	218452.981	219002.452	219552.572	220103.344
950	220654.765	221206.837	221759.558	222312.928	222866.948	223421.617	223976.934	224532.899	225089.513	225646.774
960	226204.683	226763.240	227322.443	227882.294	228442.791	229003.934	229565.701	230128.159	230691.250	231254.966
970	231819.337	232388.354	232950.015	233516.320	234083.270	234650.864	235219.103	235787.982	236357.506	236927.674
980	237498.484	238069.937	238642.032	239214.769	239788.149	240362.170	240936.833	241511.137	242086.082	242661.668
990	243241.895	243819.762	244398.269	244977.417	245557.204	246137.631	246718.698	247300.403	247882.749	248465.732
1000	249049.354									

TABLE VII. - IMPACT PRESSURE IN MILLIBARS (HECTOPASCALS) FOR VALUES OF CALIBRATED AIRSPEED IN KNOTS

Calibrated airspeed, knots	0	1	2	3	4	5	6	7	8	9
0	0.300	.002	.006	.012	.026	.041	.058	.079	.104	.131
10	.196	.233	.283	.348	.431	.535	.645	.769	.904	1.055
20	.849	.715	.585	.458	.336	.218	.106	.000	-.104	-.225
30	1.400	1.559	1.661	1.767	1.876	1.984	2.103	2.221	2.340	2.468
40	2.597	2.728	2.853	2.981	3.112	3.245	3.381	3.518	3.656	3.798
50	4.259	4.723	4.331	4.736	5.094	5.453	5.812	6.171	6.530	6.889
60	5.947	6.746	6.246	6.650	7.054	7.458	7.862	8.266	8.670	9.074
70	7.767	8.197	8.430	8.666	8.906	9.149	9.396	9.646	9.899	10.155
80	10.015	10.673	10.744	11.213	11.486	11.763	12.042	12.325	12.611	12.901
90	13.194	13.400	13.700	14.092	14.399	14.708	15.021	15.337	15.657	15.980
100	16.300	16.636	16.969	17.305	17.645	17.988	18.335	18.685	19.038	19.394
110	19.754	20.113	20.484	20.854	21.228	21.605	21.985	22.369	22.756	23.146
120	23.940	23.937	24.338	24.742	25.150	25.560	25.975	26.393	26.814	27.238
130	27.666	28.098	28.533	28.971	29.413	29.858	30.307	30.759	31.214	31.673
140	32.136	32.682	33.231	33.784	34.340	34.900	35.464	36.031	36.601	37.174
150	36.752	37.452	38.157	38.864	39.576	40.290	41.009	41.731	42.456	43.184
160	42.117	42.553	43.193	43.735	44.282	44.832	45.386	45.943	46.504	47.068
170	47.636	48.207	48.782	49.361	49.943	50.529	51.118	51.711	52.308	52.908
180	53.611	54.119	54.730	55.344	55.962	56.584	57.210	57.839	58.472	59.108
190	59.748	60.392	61.039	61.690	62.345	63.003	63.665	64.331	65.000	65.673
200	66.350	67.030	67.714	68.402	69.094	69.789	70.488	71.191	71.897	72.607
210	73.321	74.039	74.761	75.486	76.215	76.947	77.684	78.424	79.168	79.916
220	80.668	81.423	82.182	82.945	83.712	84.483	85.257	86.035	86.818	87.606
230	88.393	89.187	89.985	90.786	91.591	92.400	93.213	94.030	94.851	95.676
240	96.734	97.336	97.943	98.554	99.169	100.705	101.558	102.414	103.273	104.137
250	105.005	105.377	106.753	107.633	108.516	109.404	110.296	111.191	112.091	112.995
260	113.503	114.814	115.730	116.650	117.574	118.502	119.434	120.370	121.310	122.254
270	123.022	124.155	125.111	126.072	127.036	128.005	128.978	129.955	130.936	131.922
280	132.311	133.905	134.602	135.304	136.010	136.721	137.435	138.152	138.971	139.792
290	143.035	144.370	145.110	146.154	147.202	148.255	149.312	150.373	151.438	152.507
300	153.561	154.659	155.742	156.829	157.920	159.015	160.115	161.219	162.327	163.440
310	164.957	165.979	166.804	167.935	169.069	170.208	171.352	172.500	173.652	174.809
320	175.370	177.136	178.336	179.483	180.659	181.843	183.031	184.225	185.420	186.622
330	187.326	189.338	190.253	191.473	192.697	193.926	195.159	196.397	197.640	198.887
340	200.139	201.395	202.656	203.921	205.192	206.467	207.746	209.030	210.319	211.613
350	212.511	214.214	215.521	216.834	218.151	219.473	220.799	222.131	223.467	224.808
360	226.153	227.504	228.659	230.219	231.584	232.954	234.328	235.708	237.092	238.481
370	239.775	241.274	242.678	244.086	245.500	246.918	248.342	249.770	251.204	252.642
380	254.285	255.533	256.957	258.445	259.908	261.376	262.850	264.328	265.812	267.300
390	268.794	270.232	271.706	273.305	274.819	276.338	277.862	279.391	280.926	282.466
400	284.311	285.561	287.116	288.676	290.242	291.813	293.389	294.970	296.557	298.149
410	299.746	301.349	302.956	304.570	306.188	307.812	309.441	311.075	312.715	314.361
420	316.011	317.667	319.329	320.996	322.668	324.346	326.029	327.718	329.412	331.112
430	332.617	334.528	336.244	337.966	339.693	341.426	343.165	344.909	346.658	348.414
440	350.175	351.941	353.713	355.491	357.275	359.064	360.859	362.660	364.466	366.278
450	368.990	371.749	374.504	377.257	379.425	381.604	383.794	385.993	388.198	390.408
460	386.994	389.476	390.364	392.257	394.157	396.063	397.974	399.892	401.815	403.745
470	405.180	407.622	408.563	410.523	412.482	414.448	416.420	418.398	420.382	422.372
480	425.165	427.370	428.379	430.394	432.415	434.442	436.475	438.515	440.561	442.613
490	445.671	447.736	449.837	451.884	453.968	456.057	458.154	460.256	462.366	464.481

TABLE VII. - IMPACT PRESSURE IN MILLIBARS (HECTOPASCALS) FOR VALUES OF CALIBRATED AIRSPEED IN KNOTS - Concluded

Calibrated airspeed, knots	0	1	2	3	4	5	6	7	8	9
500	466.003	467.731	470.866	473.007	475.155	477.309	479.470	481.637	483.811	485.991
510	488.178	490.371	492.571	494.770	496.991	499.211	501.437	503.670	505.910	508.157
520	510.415	512.670	514.937	517.210	519.491	521.778	524.072	526.372	528.680	530.994
530	533.319	535.644	537.979	540.320	542.669	545.025	547.386	549.758	552.134	554.518
540	556.909	559.307	561.712	564.124	566.543	568.969	571.402	573.842	576.290	578.745
550	581.707	583.676	585.652	587.635	589.624	591.619	593.625	595.643	597.663	599.690
560	606.225	608.588	610.952	613.317	615.683	618.050	620.418	622.787	625.157	627.527
570	631.041	633.804	636.567	639.330	642.093	644.856	647.619	650.382	653.145	655.908
580	655.932	658.735	661.538	664.341	667.144	670.000	672.856	675.712	678.568	681.424
590	685.775	688.647	691.519	694.391	697.263	700.135	703.007	705.879	708.751	711.623
600	713.450	715.702	717.954	720.206	722.458	724.710	726.962	729.214	731.466	733.718
610	742.735	745.066	747.397	749.728	752.059	754.390	756.721	759.052	761.383	763.714
620	772.445	775.446	778.447	781.448	784.449	787.450	790.451	793.452	796.453	799.454
630	803.012	806.516	810.020	813.524	817.028	820.532	824.036	827.540	831.044	834.548
640	836.446	839.638	842.830	846.022	849.214	852.406	855.598	858.790	861.982	865.174
650	866.770	870.032	873.294	876.556	879.818	883.080	886.342	889.604	892.866	896.128
660	900.007	903.361	906.715	910.069	913.423	916.777	920.131	923.485	926.839	930.193
670	933.221	937.347	941.473	945.599	949.725	953.851	957.977	962.103	966.229	970.355
680	968.851	972.547	976.243	979.939	983.635	987.331	991.027	994.723	998.419	1002.115
690	1004.450	1008.593	1012.736	1016.879	1021.022	1025.165	1029.308	1033.451	1037.594	1041.737
700	1041.775	1045.504	1049.233	1052.962	1056.691	1060.420	1064.149	1067.878	1071.607	1075.336
710	1079.447	1083.260	1087.073	1090.886	1094.699	1098.512	1102.325	1106.138	1109.951	1113.764
720	1117.440	1121.841	1126.242	1130.643	1135.044	1139.445	1143.846	1148.247	1152.648	1157.049
730	1157.250	1161.231	1165.212	1169.193	1173.174	1177.155	1181.136	1185.117	1189.098	1193.079
740	1197.262	1201.416	1205.570	1209.724	1213.878	1218.032	1222.186	1226.340	1230.494	1234.648
750	1238.551	1242.842	1247.133	1251.424	1255.715	1260.006	1264.297	1268.588	1272.879	1277.170
760	1279.303	1284.116	1288.929	1293.742	1298.555	1303.368	1308.181	1312.994	1317.807	1322.620
770	1322.323	1327.636	1332.949	1338.262	1343.575	1348.888	1354.201	1359.514	1364.827	1370.140
780	1365.486	1371.443	1377.399	1383.356	1389.312	1395.269	1401.225	1407.182	1413.139	1419.096
790	1409.386	1415.316	1421.246	1427.176	1433.106	1439.036	1444.966	1450.896	1456.826	1462.756
800	1454.219	1460.113	1465.998	1471.883	1477.768	1483.653	1489.538	1495.423	1501.308	1507.193
910	1499.295	1504.939	1510.583	1516.227	1521.871	1527.515	1533.159	1538.803	1544.447	1550.091
920	1545.427	1551.072	1556.717	1562.362	1568.007	1573.652	1579.297	1584.942	1590.587	1596.232
930	1592.195	1598.011	1603.827	1609.643	1615.459	1621.275	1627.091	1632.907	1638.723	1644.539
940	1639.905	1645.721	1651.537	1657.353	1663.169	1668.985	1674.801	1680.617	1686.433	1692.249
950	1687.725	1693.541	1699.357	1705.173	1710.989	1716.805	1722.621	1728.437	1734.253	1740.069
960	1736.674	1742.490	1748.306	1754.122	1759.938	1765.754	1771.570	1777.386	1783.202	1789.018
970	1786.207	1792.023	1797.839	1803.655	1809.471	1815.287	1821.103	1826.919	1832.735	1838.551
980	1836.418	1842.234	1848.050	1853.866	1859.682	1865.498	1871.314	1877.130	1882.946	1888.762
990	1887.302	1893.118	1898.934	1904.750	1910.566	1916.382	1922.198	1928.014	1933.830	1939.646
900	1938.456	1944.272	1950.088	1955.904	1961.720	1967.536	1973.352	1979.168	1984.984	1990.800
910	1991.676	1997.492	2003.308	2009.124	2014.940	2020.756	2026.572	2032.388	2038.204	2044.020
920	2043.453	2049.269	2055.085	2060.901	2066.717	2072.533	2078.349	2084.165	2089.981	2095.797
930	2097.468	2103.284	2109.100	2114.916	2120.732	2126.548	2132.364	2138.180	2143.996	2149.812
940	2151.000	2156.816	2162.632	2168.448	2174.264	2180.080	2185.896	2191.712	2197.528	2203.344
950	2206.944	2212.760	2218.576	2224.392	2230.208	2236.024	2241.840	2247.656	2253.472	2259.288
960	2262.943	2268.759	2274.575	2280.391	2286.207	2292.023	2297.839	2303.655	2309.471	2315.287
970	2318.164	2323.980	2329.796	2335.612	2341.428	2347.244	2353.060	2358.876	2364.692	2370.508
980	2374.400	2380.216	2386.032	2391.848	2397.664	2403.480	2409.296	2415.112	2420.928	2426.744
990	2432.414	2438.230	2444.046	2449.862	2455.678	2461.494	2467.310	2473.126	2478.942	2484.758
1000	2490.447									

TABLE VIII.- STATIC PRESSURE IN MILLIMETERS OF MERCURY FOR VALUES OF
PRESSURE ALTITUDE IN GEOPOTENTIAL METERS

[These values are from ref. 2]

H, m	0	100	200	300	400	500	600	700	800	900
-1000	854.538									
-0		769.054	778.195	787.424	796.741	806.147	815.644	825.230	834.908	844.677
0	760.000	751.032	742.151	733.354	724.643	716.015	707.470	699.009	690.629	682.331
1000	674.114	665.978	657.921	649.943	642.043	634.222	626.478	618.810	611.219	603.703
2000	596.263	588.897	581.604	574.385	567.239	560.165	553.162	546.231	539.370	532.579
3000	525.857	519.204	512.620	506.103	499.654	493.271	486.954	480.703	474.518	468.396
4000	462.339	456.346	450.416	444.548	438.742	432.998	427.314	421.692	416.129	410.626
5000	405.182	399.797	394.470	389.200	383.988	378.832	373.732	368.688	363.700	358.766
6000	353.886	349.061	344.289	339.569	334.903	330.288	325.725	321.213	316.752	312.341
7000	307.981	303.669	299.407	295.193	291.027	286.909	282.838	278.814	274.837	270.906
8000	267.020	263.180	259.384	255.633	251.926	248.263	244.643	241.066	237.531	234.038
9000	230.587	227.177	223.809	220.481	217.193	213.944	210.736	207.566	204.435	201.343
10000	198.288	195.271	192.291	189.349	186.442	183.573	180.738	177.940	175.177	172.448
11000	169.754	167.098	164.484	161.911	159.377	156.884	154.430	152.013	149.635	147.294
12000	144.990	142.721	140.488	138.290	136.127	133.997	131.901	129.837	127.806	125.806
13000	123.838	121.900	119.993	118.116	116.268	114.449	112.658	110.896	109.161	107.453
14000	105.772	104.117	102.488	100.885	99.3064	97.7527	96.2234	94.7179	93.2361	91.7774
15000	90.3415	88.9281	87.5368	86.1672	84.8191	83.4921	82.1859	80.9001	79.6344	78.3885
16000	77.1621	75.9549	74.7665	73.5968	72.4454	71.3119	70.1963	69.0980	68.0170	66.9528
17000	65.9053	64.8742	63.8593	62.8602	61.8767	60.9087	59.9557	59.0177	58.0944	57.1855
18000	56.2908	55.4101	54.5432	53.6899	52.8499	52.0230	51.2091	50.4080	49.6193	48.8430
19000	48.0788	47.3267	46.5862	45.8574	45.1399	44.4337	43.7385	43.0542	42.3806	41.7176
20000	41.0649	40.4226	39.7906	39.1688	38.5570	37.9550	37.3627	36.7799	36.2064	35.6421
21000	35.0869	34.5406	34.0031	33.4741	32.9536	32.4414	31.9375	31.4415	30.9536	30.4733
22000	30.0008	29.5358	29.0782	28.6279	28.1848	27.7487	27.3196	26.8973	26.4817	26.0727
23000	25.6703	25.2742	24.8844	24.5008	24.1232	23.7517	23.3861	23.0262	22.6720	22.3235
24000	21.9804	21.6428	21.3105	20.9835	20.6616	20.3448	20.0330	19.7261	19.4240	19.1268
25000	18.8341	18.5461	18.2627	17.9837	17.7090	17.4387	17.1726	16.9107	16.6530	16.3992
26000	16.1495	15.9036	15.6616	15.4234	15.1889	14.9581	14.7309	14.5072	14.2871	14.0704
27000	13.8570	13.6470	13.4403	13.2367	13.0364	12.8392	12.6450	12.4539	12.2657	12.0805
28000	11.8981	11.7186	11.5418	11.3678	11.1965	11.0279	10.8618	10.6984	10.5375	10.3790
29000	10.2230	10.0694	9.91825	9.76939	9.62281	9.47851	9.33643	9.19654	9.05881	8.92321
30000	8.78968									

TABLE IX.- STATIC PRESSURE IN PASCALS (NEWTONS PER SQUARE METER) FOR
VALUES OF PRESSURE ALTITUDE IN GEOPOTENTIAL METERS

H, m	0	100	200	300	400	500	600	700	800	900
-1000	113929.									
-0		102532.	103751.	104981.	106223.	107477.	108744.	110022.	111312.	112614.
0	101325.	100129.	98945.3	97772.5	96611.1	95460.8	94321.6	93193.5	92076.3	90970.0
1000	89874.5	88789.7	87715.5	86651.9	85598.7	84556.0	83523.5	82501.3	81489.2	80487.2
2000	79495.2	78513.1	77540.9	76578.4	75625.6	74682.5	73748.9	72824.8	71910.0	71004.6
3000	70108.5	69221.5	68343.7	67474.8	66615.0	65764.0	64921.9	64088.5	63263.8	62447.7
4000	61640.2	60841.1	60050.5	59268.1	58494.1	57728.3	56970.6	56220.9	55479.3	54745.7
5000	54019.9	53301.9	52591.6	51889.1	51194.1	50506.8	49826.9	49154.4	48489.3	47831.5
6000	47181.0	46537.6	45901.4	45272.2	44650.0	44034.8	43426.4	42824.9	42230.2	41642.1
7000	41060.7	40485.9	39917.6	39355.8	38800.4	38251.4	37708.7	37172.2	36641.9	36117.8
8000	35599.8	35087.8	34581.7	34081.6	33587.4	33099.0	32616.4	32139.4	31668.2	31202.5
9000	30742.4	30287.8	29838.7	29395.0	28956.6	28523.6	28095.8	27673.2	27255.8	26843.5
10000	26436.2	26034.0	25636.7	25244.4	24857.0	24474.3	24096.5	23723.4	23355.0	22991.2
11000	22632.0	22277.9	21929.4	21586.3	21248.6	20916.1	20588.9	20266.8	19949.7	19637.6
12000	19330.4	19027.9	18730.2	18437.2	18148.8	17864.8	17585.3	17310.2	17039.4	16772.8
13000	16510.4	16252.1	15997.8	15747.5	15501.1	15258.6	15019.9	14784.9	14553.6	14325.9
14000	14101.8	13881.1	13664.0	13450.2	13239.8	13032.6	12828.7	12628.0	12430.5	12236.0
15000	12044.5	11856.1	11670.6	11488.0	11308.3	11131.4	10957.2	10785.8	10617.0	10450.9
16000	10287.4	10126.5	9968.05	9812.10	9658.59	9507.48	9358.73	9212.31	9068.18	8926.31
17000	8786.66	8649.19	8513.87	8380.67	8249.55	8120.49	7993.44	7868.38	7745.28	7624.10
18000	7504.82	7387.41	7271.83	7158.06	7046.07	6935.83	6827.32	6720.51	6615.36	6511.87
19000	6409.99	6309.70	6210.98	6113.81	6018.16	5924.01	5831.32	5740.09	5650.29	5561.89
20000	5474.87	5389.24	5304.98	5222.08	5140.51	5060.25	4981.28	4903.58	4827.12	4751.89
21000	4677.87	4605.04	4533.37	4462.85	4393.45	4325.17	4257.98	4191.86	4126.80	4062.78
22000	3999.78	3937.78	3876.78	3816.74	3757.66	3699.53	3642.31	3586.01	3530.61	3476.08
23000	3422.42	3369.61	3317.65	3266.50	3216.17	3166.63	3117.88	3069.91	3022.69	2976.22
24000	2930.48	2885.47	2841.17	2797.56	2754.65	2712.41	2670.84	2629.93	2589.66	2550.02
25000	2511.01	2472.62	2434.82	2397.62	2361.01	2324.97	2289.50	2254.58	2220.21	2186.38
26000	2153.08	2120.31	2088.04	2056.28	2025.02	1994.25	1963.96	1934.14	1904.79	1875.89
27000	1847.45	1819.45	1791.89	1764.75	1738.04	1711.75	1685.86	1660.38	1635.29	1610.60
28000	1586.28	1562.35	1538.78	1515.59	1492.75	1470.26	1448.13	1426.33	1404.88	1383.75
29000	1362.96	1342.48	1322.32	1302.48	1282.94	1263.70	1244.76	1226.10	1207.74	1189.66
30000	1171.86									

TABLE X.-STATIC PRESSURE IN MILLIBARS (HECTOPASCALS) FOR VALUES OF
PRESSURE ALTITUDE IN GEOPOTENTIAL METERS

[These values are from ref. 2]

H, m	0	100	200	300	400	500	600	700	800	900
-1000	1139.29									
-0		1025.32	1037.51	1049.81	1062.23	1074.77	1087.44	1100.22	1113.12	1126.14
0	1013.25	1001.29	989.453	977.725	966.111	954.608	943.216	931.935	920.763	909.700
1000	898.745	887.897	877.155	866.519	855.987	845.560	835.235	825.013	814.892	804.872
2000	794.952	785.131	775.409	765.784	756.256	746.825	737.489	728.248	719.100	710.046
3000	701.085	692.215	683.437	674.748	666.150	657.640	649.219	640.885	632.638	624.477
4000	616.402	608.411	600.505	592.681	584.941	577.283	569.706	562.209	554.793	547.457
5000	540.199	533.019	525.916	518.891	511.941	505.068	498.269	491.544	484.893	478.315
6000	471.810	465.376	459.014	452.722	446.500	440.348	434.264	428.249	422.302	416.421
7000	410.607	404.859	399.176	393.558	388.004	382.514	377.087	371.722	366.419	361.178
8000	355.998	350.878	345.817	340.816	335.874	330.990	326.164	321.394	316.682	312.025
9000	307.424	302.878	298.387	293.950	289.566	285.236	280.958	276.732	272.558	268.435
10000	264.362	260.340	256.367	252.444	248.570	244.743	240.965	237.234	233.550	229.912
11000	226.320	222.779	219.294	215.863	212.486	209.161	205.889	202.668	199.497	196.376
12000	193.304	190.279	187.302	184.372	181.488	178.648	175.853	173.102	170.394	167.728
13000	165.104	162.521	159.978	157.475	155.011	152.586	150.199	147.849	145.536	143.259
14000	141.018	138.811	136.640	134.502	132.398	130.326	128.287	126.280	124.305	122.360
15000	120.445	118.561	116.706	114.880	113.083	111.314	109.572	107.858	106.170	104.509
16000	102.874	101.265	99.6805	98.1210	96.5859	95.0748	93.5873	92.1231	90.6818	89.2631
17000	87.8666	86.4919	85.1387	83.8067	82.4955	81.2049	79.9344	78.6838	77.4528	76.2410
18000	75.0482	73.8741	72.7183	71.5806	70.4607	69.3583	68.2732	67.2051	66.1536	65.1187
19000	64.0999	63.0970	62.1098	61.1381	60.1816	59.2401	58.3132	57.4009	56.5029	55.6189
20000	54.7487	53.8924	53.0498	52.2208	51.4051	50.6025	49.8128	49.0358	48.2712	47.5189
21000	46.7787	46.0504	45.3337	44.6285	43.9345	43.2517	42.5798	41.9186	41.2680	40.6278
22000	39.9978	39.3778	38.7678	38.1674	37.5766	36.9953	36.4231	35.8601	35.3061	34.7608
23000	34.2242	33.6961	33.1765	32.6650	32.1617	31.6663	31.1788	30.6991	30.2269	29.7622
24000	29.3048	28.8547	28.4117	27.9756	27.5465	27.1241	26.7084	26.2993	25.8966	25.5002
25000	25.1101	24.7262	24.3482	23.9762	23.6101	23.2497	22.8950	22.5458	22.2021	21.8638
26000	21.5308	21.2031	20.8804	20.5628	20.2502	19.9425	19.6396	19.3414	19.0479	18.7589
27000	18.4745	18.1945	17.9189	17.6475	17.3804	17.1175	16.8586	16.6038	16.3529	16.1060
28000	15.8628	15.6235	15.3878	15.1559	14.9275	14.7026	14.4813	14.2633	14.0488	13.8375
29000	13.6296	13.4248	13.2232	13.0248	12.8294	12.6370	12.4476	12.2610	12.0774	11.8966
30000	11.7186									

TABLE XI. - RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
.11	.00702	.00716	.00733	.00745	.00759	.00774	.00789	.00804	.00819	.00834
.12	.00850	.00872	.00891	.00910	.00929	.00948	.00965	.00982	.00999	.01017
.13	.01101	.01132	.01163	.01194	.01225	.01256	.01287	.01318	.01349	.01380
.14	.01357	.01408	.01459	.01510	.01561	.01612	.01663	.01714	.01765	.01816
.15	.01877	.01948	.02019	.02090	.02161	.02232	.02303	.02374	.02445	.02516
.16	.02685	.02777	.02869	.02961	.03053	.03145	.03237	.03329	.03421	.03513
.17	.03628	.03742	.03856	.03970	.04084	.04198	.04312	.04426	.04540	.04654
.18	.04823	.04953	.05083	.05213	.05343	.05473	.05603	.05733	.05863	.05993
.19	.0612	.06265	.06408	.06551	.06694	.06837	.06980	.07123	.07266	.07409
.20	.07553	.07701	.07848	.08000	.08151	.08302	.08453	.08604	.08755	.08906
.21	.09052	.09206	.09360	.09514	.09667	.09821	.09974	.10128	.10281	.10434
.22	.10587	.10743	.10900	.11056	.11213	.11369	.11525	.11682	.11838	.11995
.23	.12151	.12319	.12487	.12655	.12823	.12991	.13159	.13327	.13495	.13663
.24	.13831	.14003	.14175	.14347	.14519	.14691	.14863	.15035	.15207	.15379
.25	.15552	.15726	.15900	.16074	.16248	.16422	.16596	.16770	.16944	.17118
.26	.17293	.17469	.17645	.17821	.18000	.18176	.18352	.18528	.18704	.18880
.27	.19037	.19215	.19393	.19571	.19750	.19928	.20106	.20284	.20462	.20640
.28	.20822	.21002	.21182	.21362	.21542	.21722	.21902	.22082	.22262	.22442
.29	.22623	.22804	.22985	.23166	.23347	.23528	.23709	.23889	.24070	.24250
.30	.24432	.24614	.24796	.24978	.25160	.25342	.25524	.25706	.25888	.26070
.31	.26254	.26437	.26620	.26803	.26986	.27169	.27352	.27535	.27718	.27901
.32	.28085	.28269	.28453	.28637	.28821	.29005	.29189	.29373	.29557	.29740
.33	.29924	.30109	.30293	.30478	.30662	.30847	.31031	.31216	.31400	.31585
.34	.31769	.31954	.32139	.32324	.32509	.32693	.32878	.33063	.33248	.33433
.35	.33618	.33803	.33988	.34173	.34358	.34543	.34728	.34913	.35098	.35283
.36	.35468	.35654	.35840	.36026	.36211	.36397	.36582	.36768	.36953	.37139
.37	.37324	.37511	.37698	.37885	.38072	.38259	.38446	.38633	.38820	.39007
.38	.39195	.39382	.39569	.39756	.39943	.40130	.40317	.40504	.40691	.40878
.39	.41067	.41254	.41441	.41628	.41815	.42002	.42189	.42376	.42563	.42750
.40	.42938	.43126	.43314	.43502	.43690	.43878	.44066	.44254	.44442	.44630
.41	.44818	.45007	.45196	.45385	.45574	.45763	.45952	.46141	.46330	.46519
.42	.46708	.46897	.47086	.47275	.47464	.47653	.47842	.48031	.48220	.48409
.43	.48599	.48788	.48977	.49166	.49355	.49544	.49733	.49922	.50111	.50300
.44	.50489	.50678	.50867	.51056	.51245	.51434	.51623	.51812	.52001	.52190
.45	.52379	.52568	.52757	.52946	.53135	.53324	.53513	.53702	.53891	.54080
.46	.54269	.54458	.54647	.54836	.55025	.55214	.55403	.55592	.55781	.55970
.47	.56160	.56349	.56538	.56727	.56916	.57105	.57294	.57483	.57672	.57861
.48	.58051	.58240	.58429	.58618	.58807	.58996	.59185	.59374	.59563	.59752
.49	.59941	.60130	.60319	.60508	.60697	.60886	.61075	.61264	.61453	.61642
.50	.61831	.62020	.62209	.62398	.62587	.62776	.62965	.63154	.63343	.63532
.51	.63721	.63910	.64099	.64288	.64477	.64666	.64855	.65044	.65233	.65422
.52	.65611	.65800	.65989	.66178	.66367	.66556	.66745	.66934	.67123	.67312
.53	.67501	.67690	.67879	.68068	.68257	.68446	.68635	.68824	.69013	.69202
.54	.69391	.69580	.69769	.69958	.70147	.70336	.70525	.70714	.70903	.71092
.55	.71281	.71470	.71659	.71848	.72037	.72226	.72415	.72604	.72793	.72982
.56	.73171	.73360	.73549	.73738	.73927	.74116	.74305	.74494	.74683	.74872
.57	.75061	.75250	.75439	.75628	.75817	.76006	.76195	.76384	.76573	.76762
.58	.76951	.77140	.77329	.77518	.77707	.77896	.78085	.78274	.78463	.78652
.59	.78841	.79030	.79219	.79408	.79597	.79786	.79975	.80164	.80353	.80542
.60	.80731	.80920	.81109	.81298	.81487	.81676	.81865	.82054	.82243	.82432
.61	.82621	.82810	.82999	.83188	.83377	.83566	.83755	.83944	.84133	.84322
.62	.84511	.84700	.84889	.85078	.85267	.85456	.85645	.85834	.86023	.86212
.63	.86401	.86590	.86779	.86968	.87157	.87346	.87535	.87724	.87913	.88102
.64	.88291	.88480	.88669	.88858	.89047	.89236	.89425	.89614	.89803	.89992
.65	.90181	.90370	.90559	.90748	.90937	.91126	.91315	.91504	.91693	.91882
.66	.92071	.92260	.92449	.92638	.92827	.93016	.93205	.93394	.93583	.93772
.67	.93961	.94150	.94339	.94528	.94717	.94906	.95095	.95284	.95473	.95662
.68	.95851	.96040	.96229	.96418	.96607	.96796	.96985	.97174	.97363	.97552
.69	.97741	.97930	.98119	.98308	.98497	.98686	.98875	.99064	.99253	.99442
.70	.99631	.99820	.100009	.100008	.100007	.100006	.100005	.100004	.100003	.100002

TABLE XI.- RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER - Continued

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
1.1	1.15289	1.13543	1.13551	1.14060	1.14320	1.14379	1.14839	1.15099	1.15369	1.15621
1.11	1.15882	1.16144	1.16606	1.16606	1.16933	1.17193	1.17457	1.17720	1.17984	1.18249
1.12	1.16913	1.18778	1.19044	1.19309	1.19575	1.19842	1.20108	1.20375	1.20643	1.20910
1.13	1.21175	1.21447	1.21715	1.21985	1.22254	1.22524	1.22794	1.23064	1.23335	1.23606
1.14	1.23877	1.24149	1.24421	1.24693	1.24965	1.25239	1.25512	1.25785	1.26059	1.26334
1.15	1.26633	1.26905	1.27179	1.27454	1.27729	1.27999	1.28269	1.28540	1.28811	1.29095
1.16	1.29372	1.29651	1.29925	1.30209	1.30487	1.30767	1.31047	1.31327	1.31607	1.31888
1.17	1.32169	1.32450	1.32732	1.33015	1.33297	1.33579	1.33862	1.34146	1.34429	1.34713
1.18	1.35498	1.35782	1.36068	1.36352	1.36638	1.36924	1.37210	1.37497	1.37784	1.38071
1.19	1.37858	1.38146	1.38434	1.38722	1.39011	1.39300	1.39590	1.39879	1.40169	1.40460
1.20	1.40750	1.41041	1.41332	1.41624	1.41915	1.42208	1.42500	1.42793	1.43085	1.43380
1.21	1.43674	1.43968	1.44262	1.44557	1.44852	1.45147	1.45442	1.45738	1.46035	1.46331
1.22	1.46623	1.46922	1.47223	1.47520	1.47819	1.48117	1.48416	1.48715	1.49014	1.49313
1.23	1.49613	1.49914	1.50214	1.50515	1.50816	1.51116	1.51419	1.51721	1.52024	1.52326
1.24	1.52623	1.52923	1.53226	1.53529	1.53834	1.54139	1.54445	1.54759	1.55064	1.55370
1.25	1.55675	1.55978	1.56280	1.56585	1.56890	1.57200	1.57508	1.57826	1.58135	1.58444
1.26	1.58753	1.59052	1.59352	1.59682	1.59992	1.60302	1.60613	1.60924	1.61235	1.61548
1.27	1.61850	1.62172	1.62485	1.62797	1.63111	1.63424	1.63738	1.64052	1.64367	1.64681
1.28	1.64975	1.65312	1.65627	1.65945	1.66260	1.66576	1.66893	1.67210	1.67527	1.67845
1.29	1.68153	1.68481	1.68800	1.69119	1.69433	1.69758	1.70077	1.70397	1.70716	1.71038
1.30	1.71359	1.71681	1.72002	1.72324	1.72646	1.72969	1.73291	1.73614	1.73938	1.74261
1.31	1.74583	1.74909	1.75234	1.75559	1.75884	1.76209	1.76535	1.76861	1.77187	1.77513
1.32	1.77849	1.78175	1.78495	1.78825	1.79151	1.79479	1.79807	1.80135	1.80465	1.80795
1.33	1.81125	1.81455	1.81785	1.82115	1.82447	1.82778	1.83109	1.83441	1.83773	1.84105
1.34	1.84438	1.84771	1.85104	1.85436	1.85772	1.86106	1.86440	1.86775	1.87110	1.87445
1.35	1.87781	1.88116	1.88452	1.88789	1.89126	1.89463	1.89800	1.90137	1.90475	1.90811
1.36	1.91152	1.91491	1.91835	1.92169	1.92508	1.92848	1.93188	1.93529	1.93870	1.94211
1.37	1.94552	1.94893	1.95235	1.95577	1.95920	1.96263	1.96606	1.96949	1.97293	1.97636
1.38	1.97981	1.98325	1.98670	1.99015	1.99360	1.99706	2.00052	2.00398	2.00744	2.01091
1.39	2.01433	2.01785	2.02133	2.02481	2.02829	2.03177	2.03526	2.03875	2.04224	2.04574
1.40	2.04924	2.05274	2.05624	2.05975	2.06325	2.06677	2.07029	2.07380	2.07733	2.08085
1.41	2.08433	2.08791	2.09149	2.09497	2.09851	2.10205	2.10560	2.10914	2.11269	2.11624
1.42	2.11959	2.12320	2.12682	2.13040	2.13405	2.13762	2.14119	2.14476	2.14834	2.15192
1.43	2.15551	2.15919	2.16283	2.16627	2.16987	2.17346	2.17706	2.18067	2.18427	2.18788
1.44	2.19159	2.19511	2.19872	2.20234	2.20597	2.20959	2.21322	2.21685	2.22048	2.22412
1.45	2.22775	2.23140	2.23505	2.23869	2.24234	2.24600	2.24967	2.25331	2.25697	2.26064
1.46	2.26431	2.26798	2.27155	2.27532	2.27900	2.28268	2.28637	2.29005	2.29374	2.29744
1.47	2.30093	2.30453	2.30853	2.31223	2.31594	2.31965	2.32336	2.32707	2.33079	2.33451
1.48	2.33823	2.34196	2.34569	2.34942	2.35315	2.35689	2.36063	2.36437	2.36812	2.37187
1.49	2.37552	2.37937	2.38313	2.38688	2.39065	2.39441	2.39818	2.40195	2.40572	2.40950
1.50	2.41327	2.41730	2.42084	2.42463	2.42832	2.43221	2.43590	2.43980	2.44360	2.44740
1.51	2.45121	2.45502	2.45883	2.46264	2.46645	2.47028	2.47410	2.47793	2.48176	2.48559
1.52	2.48952	2.49326	2.49710	2.50094	2.50478	2.50863	2.51248	2.51633	2.52019	2.52405
1.53	2.52791	2.53177	2.53564	2.53951	2.54338	2.54725	2.55113	2.55501	2.55889	2.56278
1.54	2.56657	2.57045	2.57435	2.57825	2.58222	2.58616	2.59005	2.59396	2.59787	2.60179
1.55	2.60579	2.60975	2.61374	2.61774	2.62173	2.62572	2.62972	2.63371	2.63771	2.64171
1.56	2.64501	2.64937	2.65373	2.65808	2.66247	2.66687	2.67126	2.67569	2.68012	2.68456
1.57	2.68889	2.69352	2.69824	2.69952	2.70350	2.70748	2.71146	2.71544	2.71945	2.72345
1.58	2.72443	2.72945	2.73445	2.73845	2.74245	2.74648	2.75049	2.75451	2.75853	2.76255
1.59	2.76657	2.77123	2.77589	2.78055	2.78521	2.78987	2.79453	2.79918	2.79887	2.80392

TABLE XI. - RATIO OF IMPACT PRESSURE TO STATIC PRESSURE. q_c/p FOR VALUES OF MACH NUMBER - Continued

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
1.60	2.80497	2.80933	2.81369	2.81714	2.82121	2.82527	2.82934	2.83341	2.83749	2.84156
1.61	2.84554	2.84972	2.85381	2.85790	2.86199	2.86608	2.87017	2.87427	2.87837	2.88246
1.62	2.88558	2.88959	2.89360	2.89762	2.90164	2.90566	2.90968	2.91371	2.91773	2.92176
1.63	2.92782	2.93173	2.93564	2.93955	2.94346	2.94737	2.95128	2.95519	2.95910	2.96301
1.64	2.96692	2.97073	2.97454	2.97835	2.98216	2.98597	2.98978	2.99359	2.99740	3.00121
1.65	3.01133	3.01514	3.01895	3.02276	3.02657	3.03038	3.03419	3.03800	3.04181	3.04562
1.66	3.05335	3.05716	3.06097	3.06478	3.06859	3.07240	3.07621	3.08002	3.08383	3.08764
1.67	3.09535	3.09916	3.10297	3.10678	3.11059	3.11440	3.11821	3.12202	3.12583	3.12964
1.68	3.13731	3.14112	3.14493	3.14874	3.15255	3.15636	3.16017	3.16398	3.16779	3.17160
1.69	3.18374	3.18755	3.19136	3.19517	3.19898	3.20279	3.20660	3.21041	3.21422	3.21803
1.70	3.22383	3.22764	3.23145	3.23526	3.23907	3.24288	3.24669	3.25050	3.25431	3.25812
1.71	3.26720	3.27101	3.27482	3.27863	3.28244	3.28625	3.29006	3.29387	3.29768	3.30149
1.72	3.31083	3.31464	3.31845	3.32226	3.32607	3.32988	3.33369	3.33750	3.34131	3.34512
1.73	3.35473	3.35854	3.36235	3.36616	3.36997	3.37378	3.37759	3.38140	3.38521	3.38902
1.74	3.39890	3.40271	3.40652	3.41033	3.41414	3.41795	3.42176	3.42557	3.42938	3.43319
1.75	3.44334	3.44715	3.45096	3.45477	3.45858	3.46239	3.46620	3.46999	3.47380	3.47761
1.76	3.48804	3.49185	3.49566	3.49947	3.50328	3.50709	3.51090	3.51471	3.51852	3.52233
1.77	3.53301	3.53682	3.54063	3.54444	3.54825	3.55206	3.55587	3.55968	3.56349	3.56730
1.78	3.57825	3.58206	3.58587	3.58968	3.59349	3.59730	3.60111	3.60492	3.60873	3.61254
1.79	3.62375	3.62756	3.63137	3.63518	3.63899	3.64280	3.64661	3.65042	3.65423	3.65804
1.80	3.66952	3.67333	3.67714	3.68095	3.68476	3.68857	3.69238	3.69619	3.70000	3.70381
1.81	3.71555	3.71936	3.72317	3.72698	3.73079	3.73460	3.73841	3.74222	3.74603	3.74984
1.82	3.76135	3.76516	3.76897	3.77278	3.77659	3.78040	3.78421	3.78802	3.79183	3.79564
1.83	3.80841	3.81222	3.81603	3.81984	3.82365	3.82746	3.83127	3.83508	3.83889	3.84270
1.84	3.85524	3.85905	3.86286	3.86667	3.87048	3.87429	3.87810	3.88191	3.88572	3.88953
1.85	3.90234	3.90615	3.90996	3.91377	3.91758	3.92139	3.92520	3.92901	3.93282	3.93663
1.86	3.94973	3.95354	3.95735	3.96116	3.96497	3.96878	3.97259	3.97640	3.98021	3.98402
1.87	3.99732	4.00113	4.00494	4.00875	4.01256	4.01637	4.02018	4.02399	4.02780	4.03161
1.88	4.04521	4.04902	4.05283	4.05664	4.06045	4.06426	4.06807	4.07188	4.07569	4.07950
1.89	4.09333	4.09714	4.10095	4.10476	4.10857	4.11238	4.11619	4.11999	4.12380	4.12761
1.90	4.14678	4.15059	4.15440	4.15821	4.16202	4.16583	4.16964	4.17345	4.17726	4.18107
1.91	4.19043	4.19424	4.19805	4.20186	4.20567	4.20948	4.21329	4.21710	4.22091	4.22472
1.92	4.23940	4.24321	4.24702	4.25083	4.25464	4.25845	4.26226	4.26607	4.26988	4.27369
1.93	4.28851	4.29232	4.29613	4.30000	4.30381	4.30762	4.31143	4.31524	4.31905	4.32286
1.94	4.34308	4.34689	4.35070	4.35451	4.35832	4.36213	4.36594	4.36975	4.37356	4.37737
1.95	4.39782	4.40163	4.40544	4.40925	4.41306	4.41687	4.42068	4.42449	4.42830	4.43211
1.96	4.44782	4.45163	4.45544	4.45925	4.46306	4.46687	4.47068	4.47449	4.47830	4.48211
1.97	4.48803	4.49184	4.49565	4.49946	4.50327	4.50708	4.51089	4.51470	4.51851	4.52232
1.98	4.53860	4.54241	4.54622	4.55003	4.55384	4.55765	4.56146	4.56527	4.56908	4.57289
1.99	4.59337	4.59718	4.60099	4.60480	4.60861	4.61242	4.61623	4.62004	4.62385	4.62766
2.00	4.64044	4.64425	4.64806	4.65187	4.65568	4.65949	4.66330	4.66711	4.67092	4.67473
2.01	4.69175	4.69556	4.69937	4.70318	4.70699	4.71080	4.71461	4.71842	4.72223	4.72604
2.02	4.74333	4.74714	4.75095	4.75476	4.75857	4.76238	4.76619	4.76999	4.77380	4.77761
2.03	4.79511	4.79892	4.80273	4.80654	4.81035	4.81416	4.81797	4.82178	4.82559	4.82940
2.04	4.84727	4.85108	4.85489	4.85870	4.86251	4.86632	4.87013	4.87394	4.87775	4.88156
2.05	4.89963	4.90344	4.90725	4.91106	4.91487	4.91868	4.92249	4.92630	4.93011	4.93392
2.06	4.95226	4.95607	4.95988	4.96369	4.96750	4.97131	4.97512	4.97893	4.98274	4.98655
2.07	5.01045	5.01426	5.01807	5.02188	5.02569	5.02950	5.03331	5.03712	5.04093	5.04474
2.08	5.05829	5.06210	5.06591	5.06972	5.07353	5.07734	5.08115	5.08496	5.08877	5.09258
2.09	5.11170	5.11551	5.11932	5.12313	5.12694	5.13075	5.13456	5.13837	5.14218	5.14599

TABLE XI.- RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER - Continued

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
2.10	5.16537	5.17376	5.17614	5.18133	5.18692	5.19231	5.19770	5.20310	5.20850	5.21390
2.11	5.21931	5.22472	5.23013	5.23554	5.24095	5.24637	5.25180	5.25722	5.26264	5.26807
2.12	5.27351	5.27934	5.28438	5.28981	5.29526	5.30070	5.30615	5.31160	5.31705	5.32250
2.13	5.32795	5.33422	5.33889	5.34435	5.34982	5.35529	5.36076	5.36624	5.37172	5.37720
2.14	5.38258	5.38817	5.39356	5.39915	5.40464	5.41014	5.41564	5.42114	5.42664	5.43215
2.15	5.43755	5.44317	5.44859	5.45421	5.45973	5.46525	5.47077	5.47630	5.48183	5.48737
2.16	5.49290	5.49844	5.50398	5.50953	5.51507	5.52062	5.52617	5.53173	5.53728	5.54284
2.17	5.54841	5.55397	5.55954	5.56511	5.57068	5.57625	5.58183	5.58741	5.59300	5.59858
2.18	5.60417	5.60975	5.61533	5.62095	5.62655	5.63215	5.63775	5.64336	5.64897	5.65458
2.19	5.66019	5.66581	5.67143	5.67705	5.68268	5.68830	5.69393	5.69957	5.70520	5.71084
2.20	5.71649	5.72212	5.72777	5.73342	5.73907	5.74472	5.75038	5.75604	5.76170	5.76736
2.21	5.77303	5.77870	5.78437	5.79004	5.79572	5.80140	5.80708	5.81276	5.81845	5.82414
2.22	5.82933	5.83553	5.84123	5.84693	5.85263	5.85834	5.86404	5.86976	5.87547	5.88118
2.23	5.88690	5.89252	5.89835	5.90407	5.90980	5.91554	5.92127	5.92701	5.93275	5.93849
2.24	5.94423	5.94938	5.95515	5.96048	5.96724	5.97299	5.97875	5.98452	5.99028	5.99605
2.25	6.00182	6.00760	6.01337	6.01915	6.02493	6.03071	6.03650	6.04229	6.04808	6.05388
2.26	6.05957	6.06547	6.07127	6.07708	6.08289	6.08870	6.09451	6.10032	6.10614	6.11196
2.27	6.11778	6.12351	6.12944	6.13527	6.14110	6.14694	6.15278	6.15862	6.16446	6.17031
2.28	6.17616	6.18201	6.18786	6.19372	6.19958	6.20544	6.21130	6.21717	6.22304	6.22891
2.29	6.23479	6.24035	6.24604	6.25173	6.25733	6.26302	6.26870	6.27439	6.28008	6.28578
2.30	6.29368	6.29958	6.30549	6.31140	6.31731	6.32322	6.32914	6.33506	6.34098	6.34691
2.31	6.35233	6.35876	6.36469	6.37063	6.37657	6.38251	6.38845	6.39439	6.40034	6.40629
2.32	6.41225	6.41820	6.42416	6.43012	6.43608	6.44205	6.44802	6.45399	6.45996	6.46594
2.33	6.47192	6.47790	6.48388	6.48987	6.49585	6.50184	6.50785	6.51384	6.51984	6.52585
2.34	6.53185	6.53786	6.54387	6.54988	6.55590	6.56192	6.56794	6.57396	6.57999	6.58601
2.35	6.59205	6.59808	6.60412	6.61015	6.61624	6.62224	6.62829	6.63434	6.64039	6.64644
2.36	6.65250	6.65856	6.66452	6.67055	6.67655	6.68262	6.68869	6.69477	6.70085	6.70693
2.37	6.71321	6.71930	6.72539	6.73148	6.73757	6.74367	6.74977	6.75587	6.76197	6.76808
2.38	6.77419	6.78030	6.78641	6.79253	6.79865	6.80477	6.81090	6.81702	6.82315	6.82929
2.39	6.83542	6.84156	6.84770	6.85384	6.85999	6.86613	6.87229	6.87844	6.88459	6.89075
2.40	6.89591	6.90206	6.90824	6.91441	6.92058	6.92676	6.93293	6.94011	6.94630	6.95248
2.41	6.95867	6.96486	6.97105	6.97724	6.98344	6.98964	6.99584	7.00205	7.00826	7.01447
2.42	7.02068	7.02690	7.03311	7.03934	7.04556	7.05178	7.05801	7.06424	7.07048	7.07671
2.43	7.08235	7.08870	7.09504	7.10139	7.10774	7.11409	7.12044	7.12670	7.13296	7.13922
2.44	7.14549	7.15175	7.15802	7.16430	7.17057	7.17685	7.18313	7.18941	7.19570	7.20199
2.45	7.20823	7.21457	7.22087	7.22717	7.23347	7.23977	7.24608	7.25239	7.25870	7.26501
2.46	7.27133	7.27765	7.28397	7.29030	7.29662	7.30295	7.30929	7.31562	7.32196	7.32830
2.47	7.33464	7.34099	7.34734	7.35369	7.36004	7.36640	7.37275	7.37912	7.38548	7.39185
2.48	7.39821	7.40459	7.41096	7.41733	7.42372	7.43010	7.43648	7.44287	7.44926	7.45565
2.49	7.46205	7.46834	7.47464	7.48125	7.48765	7.49406	7.50047	7.50688	7.51330	7.51972
2.50	7.52614	7.53256	7.53899	7.54541	7.55184	7.55828	7.56471	7.57115	7.57760	7.58404
2.51	7.59049	7.59694	7.60339	7.60984	7.61630	7.62276	7.62922	7.63569	7.64215	7.64862
2.52	7.65510	7.66157	7.66805	7.67453	7.68101	7.68750	7.69399	7.70048	7.70697	7.71347
2.53	7.71995	7.72647	7.73297	7.73948	7.74598	7.75250	7.75901	7.76553	7.77205	7.77857
2.54	7.78509	7.79152	7.79815	7.80468	7.81122	7.81775	7.82429	7.83084	7.83738	7.84393
2.55	7.85048	7.85703	7.86359	7.87015	7.87671	7.88327	7.88984	7.89641	7.90298	7.90955
2.56	7.91513	7.92271	7.92925	7.93587	7.94246	7.94905	7.95564	7.96223	7.96883	7.97543
2.57	7.98233	7.98864	7.99495	8.00185	8.00847	8.01508	8.02170	8.02832	8.03495	8.04157
2.58	8.04820	8.05433	8.06045	8.06681	8.07274	8.07838	8.08402	8.08967	8.09532	8.10147
2.59	8.11452	8.12126	8.12794	8.13450	8.14127	8.14793	8.15460	8.16128	8.16795	8.17463

TABLE XI. - RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER - Continued

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
2.50	8.18131	8.18739	8.19456	8.20135	8.20805	8.21475	8.22144	8.22814	8.23484	8.24155
2.51	8.24825	8.25496	8.26167	8.26838	8.27511	8.28182	8.28854	8.29527	8.30199	8.30872
2.52	8.31525	8.32219	8.32912	8.33605	8.34291	8.34974	8.35659	8.36343	8.37026	8.37706
2.53	8.38291	8.38988	8.39684	8.40377	8.41067	8.41754	8.42439	8.43122	8.43803	8.44481
2.54	8.45054	8.45742	8.46421	8.47100	8.47778	8.48455	8.49133	8.49811	8.50490	8.51168
2.55	8.51852	8.52533	8.53212	8.53890	8.54568	8.55247	8.55925	8.56603	8.57281	8.57959
2.56	8.58685	8.59359	8.60033	8.60707	8.61382	8.62057	8.62732	8.63407	8.64082	8.64756
2.57	8.65535	8.66212	8.66889	8.67566	8.68242	8.68918	8.69594	8.70270	8.70945	8.71621
2.58	8.72411	8.73100	8.73789	8.74477	8.75168	8.75858	8.76549	8.77239	8.77930	8.78621
2.59	8.79312	8.80004	8.80695	8.81386	8.82080	8.82773	8.83466	8.84159	8.84852	8.85546
2.70	8.86240	8.86934	8.87629	8.88323	8.89018	8.89713	8.90409	8.91105	8.91801	8.92497
2.71	8.93193	8.93890	8.94587	8.95284	8.95982	8.96680	8.97378	8.98076	8.98775	8.99473
2.72	9.00173	9.00872	9.01572	9.02271	9.02972	9.03672	9.04373	9.05073	9.05775	9.06476
2.73	9.07173	9.07880	9.08582	9.09284	9.09987	9.10690	9.11393	9.12097	9.12800	9.13504
2.74	9.14203	9.14913	9.15616	9.16323	9.17028	9.17734	9.18440	9.19146	9.19852	9.20559
2.75	9.21253	9.21973	9.22688	9.23399	9.24109	9.24819	9.25521	9.26221	9.26930	9.27639
2.76	9.28343	9.29058	9.29768	9.30476	9.31189	9.31900	9.32611	9.33322	9.34033	9.34745
2.77	9.35457	9.36165	9.36882	9.37595	9.38308	9.39021	9.39735	9.40449	9.41163	9.41877
2.78	9.42532	9.43247	9.43962	9.44673	9.45385	9.46095	9.46805	9.47601	9.48318	9.49035
2.79	9.49752	9.50470	9.51187	9.51905	9.52624	9.53342	9.54061	9.54780	9.55499	9.56219
2.80	9.56933	9.57653	9.58379	9.59099	9.59820	9.60541	9.61263	9.61984	9.62706	9.63428
2.81	9.64151	9.64873	9.65595	9.66317	9.67043	9.67767	9.68494	9.69215	9.69939	9.70664
2.82	9.71389	9.72114	9.72840	9.73565	9.74291	9.75018	9.75744	9.76471	9.77198	9.77925
2.83	9.78633	9.79361	9.80089	9.80813	9.81538	9.82264	9.82989	9.83713	9.84438	9.85162
2.84	9.85943	9.86673	9.87404	9.88135	9.88866	9.89597	9.90329	9.91061	9.91793	9.92526
2.85	9.93258	9.93991	9.94725	9.95458	9.96192	9.96926	9.97660	9.98395	9.99129	9.99864
2.86	10.00660	10.01395	10.02131	10.02867	10.03594	10.04320	10.05047	10.05774	10.06492	10.07229
2.87	10.07957	10.08705	10.09444	10.10182	10.10921	10.11661	10.12400	10.13140	10.13880	10.14620
2.88	10.15361	10.16101	10.16842	10.17584	10.18325	10.19067	10.19809	10.20551	10.21294	10.22037
2.89	10.22780	10.23523	10.24267	10.25010	10.25753	10.26499	10.27244	10.27988	10.28734	10.29479
2.90	10.30225	10.30971	10.31717	10.32463	10.33210	10.33957	10.34704	10.35452	10.36199	10.36947
2.91	10.37689	10.38444	10.39193	10.39942	10.40691	10.41441	10.42190	10.42940	10.43689	10.44441
2.92	10.45192	10.45943	10.46695	10.47445	10.48198	10.48950	10.49703	10.50455	10.51208	10.51961
2.93	10.52715	10.53471	10.54222	10.54973	10.55724	10.56486	10.57241	10.57996	10.58751	10.59507
2.94	10.60253	10.61019	10.61775	10.62533	10.63290	10.64047	10.64805	10.65562	10.66321	10.67079
2.95	10.67837	10.68596	10.69355	10.70115	10.70874	10.71634	10.72394	10.73155	10.73915	10.74676
2.96	10.75458	10.76219	10.76981	10.77742	10.78505	10.79267	10.80030	10.80793	10.81556	10.82300
2.97	10.83054	10.83828	10.84592	10.85355	10.86121	10.86886	10.87651	10.88417	10.89183	10.89949
2.98	10.90715	10.91482	10.92249	10.93016	10.93783	10.94551	10.95319	10.96087	10.96855	10.97624
2.99	10.98333	10.99152	10.99932	11.00701	11.01471	11.02241	11.03012	11.03783	11.04554	11.05325
3.00	11.06095	11.06858	11.07640	11.08413	11.09185	11.09958	11.10731	11.11504	11.12278	11.13052
3.01	11.13826	11.14590	11.15375	11.16150	11.16925	11.17700	11.18476	11.19252	11.20028	11.20804
3.02	11.21581	11.22358	11.23135	11.23913	11.24690	11.25468	11.26247	11.27025	11.27804	11.28583
3.03	11.29362	11.30142	11.30921	11.31701	11.32482	11.33262	11.34043	11.34824	11.35605	11.36387
3.04	11.37159	11.37951	11.38733	11.39529	11.40324	11.41121	11.41914	11.42709	11.43503	11.44217
3.05	11.45022	11.45816	11.46611	11.47405	11.48194	11.48982	11.49774	11.50560	11.51356	11.52153
3.06	11.52860	11.53667	11.54475	11.55281	11.56081	11.56889	11.57694	11.58500	11.59306	11.59955
3.07	11.60745	11.61534	11.62325	11.63115	11.63905	11.64696	11.65488	11.66279	11.67071	11.67863
3.08	11.68655	11.69447	11.70240	11.71033	11.71826	11.72620	11.73413	11.74207	11.75002	11.75796
3.09	11.76591	11.77386	11.78181	11.78977	11.79772	11.80569	11.81365	11.82161	11.82958	11.83755

TABLE XI. - RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER - Continued

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
3.10	11.84553	11.85350	11.86148	11.86946	11.87745	11.88543	11.89342	11.90141	11.90941	11.91740
3.11	11.92563	11.93361	11.94159	11.94957	11.95755	11.96554	11.97352	11.98151	11.98949	11.99748
3.12	12.00574	12.01372	12.02170	12.02968	12.03766	12.04564	12.05362	12.06160	12.06958	12.07756
3.13	12.08585	12.09383	12.10181	12.10979	12.11777	12.12575	12.13373	12.14171	12.14969	12.15767
3.14	12.16596	12.17394	12.18192	12.18990	12.19788	12.20586	12.21384	12.22182	12.22980	12.23778
3.15	12.24787	12.25585	12.26383	12.27181	12.27979	12.28777	12.29575	12.30373	12.31171	12.31969
3.16	12.32866	12.33664	12.34462	12.35260	12.36058	12.36856	12.37654	12.38452	12.39250	12.40048
3.17	12.41009	12.41807	12.42605	12.43403	12.44201	12.45000	12.45798	12.46596	12.47394	12.48192
3.18	12.49178	12.49976	12.50774	12.51572	12.52370	12.53168	12.53966	12.54764	12.55562	12.56360
3.19	12.57372	12.58170	12.58968	12.59766	12.60564	12.61362	12.62160	12.62958	12.63756	12.64554
3.20	12.65592	12.66390	12.67188	12.67986	12.68784	12.69582	12.70380	12.71178	12.71976	12.72774
3.21	12.73938	12.74736	12.75534	12.76332	12.77130	12.77928	12.78726	12.79524	12.80322	12.81120
3.22	12.82110	12.82908	12.83706	12.84504	12.85302	12.86100	12.86898	12.87696	12.88494	12.89292
3.23	12.90407	12.91205	12.92003	12.92801	12.93599	12.94397	12.95195	12.95993	12.96791	12.97589
3.24	12.98731	12.99529	13.00327	13.01125	13.01923	13.02721	13.03519	13.04317	13.05115	13.05913
3.25	13.07393	13.08191	13.08989	13.09787	13.10585	13.11383	13.12181	13.12979	13.13777	13.14575
3.26	13.15455	13.16253	13.17051	13.17849	13.18647	13.19445	13.20243	13.21041	13.21839	13.22637
3.27	13.23855	13.24653	13.25451	13.26249	13.27047	13.27845	13.28643	13.29441	13.30239	13.31037
3.28	13.32283	13.33081	13.33879	13.34677	13.35475	13.36273	13.37071	13.37869	13.38667	13.39465
3.29	13.40735	13.41533	13.42331	13.43129	13.43927	13.44725	13.45523	13.46321	13.47119	13.47917
3.30	13.49214	13.50012	13.50810	13.51608	13.52406	13.53204	13.54002	13.54800	13.55598	13.56396
3.31	13.57718	13.58516	13.59314	13.60112	13.60910	13.61708	13.62506	13.63304	13.64102	13.64900
3.32	13.66248	13.67046	13.67844	13.68642	13.69440	13.70238	13.71036	13.71834	13.72632	13.73430
3.33	13.74804	13.75602	13.76400	13.77198	13.77996	13.78794	13.79592	13.80390	13.81188	13.81986
3.34	13.83385	13.84183	13.84981	13.85779	13.86577	13.87375	13.88173	13.88971	13.89769	13.90567
3.35	13.91992	13.92790	13.93588	13.94386	13.95184	13.95982	13.96780	13.97578	13.98376	13.99174
3.36	14.00625	14.01423	14.02221	14.03019	14.03817	14.04615	14.05413	14.06211	14.07009	14.07807
3.37	14.09283	14.10081	14.10879	14.11677	14.12475	14.13273	14.14071	14.14869	14.15667	14.16465
3.38	14.17969	14.18767	14.19565	14.20363	14.21161	14.21959	14.22757	14.23555	14.24353	14.25151
3.39	14.26680	14.27478	14.28276	14.29074	14.29872	14.30670	14.31468	14.32266	14.33064	14.33862
3.40	14.35417	14.36215	14.37013	14.37811	14.38609	14.39407	14.40205	14.41003	14.41801	14.42599
3.41	14.44179	14.44977	14.45775	14.46573	14.47371	14.48169	14.48967	14.49765	14.50563	14.51361
3.42	14.52967	14.53765	14.54563	14.55361	14.56159	14.56957	14.57755	14.58553	14.59351	14.60149
3.43	14.61781	14.62579	14.63377	14.64175	14.64973	14.65771	14.66569	14.67367	14.68165	14.68963
3.44	14.70620	14.71418	14.72216	14.73014	14.73812	14.74610	14.75408	14.76206	14.77004	14.77802
3.45	14.79485	14.80283	14.81081	14.81879	14.82677	14.83475	14.84273	14.85071	14.85869	14.86667
3.46	14.88377	14.89175	14.89973	14.90771	14.91569	14.92367	14.93165	14.93963	14.94761	14.95559
3.47	14.97296	14.98094	14.98892	14.99690	15.00488	15.01286	15.02084	15.02882	15.03680	15.04478
3.48	15.06237	15.07035	15.07833	15.08631	15.09429	15.10227	15.11025	15.11823	15.12621	15.13419
3.49	15.15206	15.16004	15.16802	15.17600	15.18398	15.19196	15.20000	15.20800	15.21600	15.22400
3.50	15.24200	15.25000	15.25800	15.26600	15.27400	15.28200	15.29000	15.29800	15.30600	15.31400
3.51	15.33200	15.34000	15.34800	15.35600	15.36400	15.37200	15.38000	15.38800	15.39600	15.40400
3.52	15.42200	15.43000	15.43800	15.44600	15.45400	15.46200	15.47000	15.47800	15.48600	15.49400
3.53	15.51300	15.52100	15.52900	15.53700	15.54500	15.55300	15.56100	15.56900	15.57700	15.58500
3.54	15.60400	15.61200	15.62000	15.62800	15.63600	15.64400	15.65200	15.66000	15.66800	15.67600
3.55	15.69500	15.70300	15.71100	15.71900	15.72700	15.73500	15.74300	15.75100	15.75900	15.76700
3.56	15.78700	15.79500	15.80300	15.81100	15.81900	15.82700	15.83500	15.84300	15.85100	15.85900
3.57	15.87800	15.88600	15.89400	15.90200	15.91000	15.91800	15.92600	15.93400	15.94200	15.95000
3.58	15.97000	15.97800	15.98600	15.99400	16.00200	16.01000	16.01800	16.02600	16.03400	16.04200
3.59	16.06300	16.07100	16.07900	16.08700	16.09500	16.10300	16.11100	16.11900	16.12700	16.13500

TABLE XI.- RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER - Continued

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
3.50	15.15564	16.16490	15.17417	15.18344	16.19272	15.20200	16.21127	16.22056	16.22984	16.23913
3.51	15.24842	16.25771	16.26701	16.27630	16.28560	16.29491	16.30421	16.31352	16.32283	16.33214
3.62	16.34146	16.35078	16.36010	16.36942	16.37875	16.38808	16.39741	16.40672	16.41608	16.42542
3.63	16.43476	16.44410	16.45345	16.46280	16.47215	16.48150	16.49086	16.50022	16.50958	16.51895
3.64	16.52831	16.53768	16.54706	16.55643	16.56581	16.57519	16.58457	16.59396	16.60334	16.61273
3.65	16.62621	16.63562	16.64502	16.65443	16.66383	16.67323	16.68264	16.69205	16.69736	16.70676
3.66	16.71520	16.72462	16.73404	16.74347	16.75290	16.76233	16.77177	16.78120	16.79064	16.80008
3.67	16.81053	16.81998	16.82943	16.83888	16.84833	16.85779	16.86725	16.87671	16.88618	16.89565
3.68	16.90512	16.91459	16.92407	16.93354	16.94302	16.95251	16.96199	16.97148	16.98097	16.99047
3.69	16.99995	17.00946	17.01896	17.02847	17.03797	17.04748	17.05699	17.06651	17.07602	17.08554
3.70	17.09537	17.10490	17.11442	17.12395	17.13348	17.14301	17.15255	17.16209	17.17163	17.18118
3.71	17.19043	17.19998	17.20953	17.21909	17.22864	17.23821	17.24777	17.25733	17.26690	17.27647
3.72	17.28605	17.29562	17.30520	17.31478	17.32437	17.33396	17.34354	17.35313	17.36273	17.37233
3.73	17.38192	17.39153	17.40113	17.41074	17.42035	17.42996	17.43957	17.44919	17.45881	17.46843
3.74	17.48735	17.49699	17.50663	17.51629	17.52595	17.53562	17.54529	17.55497	17.56465	17.57433
3.75	17.57445	17.58411	17.59376	17.60342	17.61308	17.62275	17.63241	17.64208	17.65175	17.66143
3.76	17.67115	17.68078	17.69046	17.70015	17.70984	17.71953	17.72922	17.73891	17.74861	17.75831
3.77	17.76801	17.77772	17.78743	17.79714	17.80685	17.81656	17.82628	17.83600	17.84573	17.85545
3.78	17.86518	17.87491	17.88464	17.89436	17.90412	17.91386	17.92360	17.93335	17.94310	17.95285
3.79	17.96253	17.97236	17.98212	17.99188	18.00165	18.01141	18.02118	18.03095	18.04073	18.05051
3.80	18.06029	18.07037	18.07985	18.08964	18.09943	18.10922	18.11902	18.12882	18.13862	18.14842
3.81	18.15823	18.16803	18.17785	18.18766	18.19748	18.20729	18.21711	18.22694	18.23676	18.24659
3.82	18.25542	18.26526	18.27510	18.28493	18.29478	18.30462	18.31447	18.32432	18.33417	18.34402
3.83	18.35488	18.36474	18.37460	18.38446	18.39434	18.40421	18.41408	18.42395	18.43383	18.44371
3.84	18.45359	18.46348	18.47337	18.48326	18.49315	18.50305	18.51295	18.52285	18.53275	18.54266
3.85	18.55257	18.56248	18.57239	18.58231	18.59223	18.60215	18.61207	18.62200	18.63193	18.64186
3.86	18.65183	18.66173	18.67165	18.68156	18.69148	18.70141	18.71134	18.72127	18.73121	18.74114
3.87	18.75128	18.76121	18.77112	18.78110	18.79115	18.80112	18.81110	18.82108	18.83106	18.84104
3.88	18.85103	18.86132	18.87161	18.88190	18.89219	18.90210	18.91130	18.92100	18.93101	18.94102
3.89	18.95134	18.96135	18.97136	18.98103	18.99110	19.00113	19.01116	19.02119	19.03122	19.04125
3.90	19.05129	19.06133	19.07138	19.08142	19.09147	19.10152	19.11157	19.12163	19.13169	19.14175
3.91	19.15181	19.16138	19.17195	19.18202	19.19209	19.20217	19.21225	19.22233	19.23241	19.24250
3.92	19.25259	19.26258	19.27277	19.28287	19.29297	19.30307	19.31318	19.32328	19.33339	19.34351
3.93	19.35352	19.36374	19.37386	19.38398	19.39411	19.40424	19.41437	19.42450	19.43464	19.44477
3.94	19.45491	19.46506	19.47520	19.48535	19.49550	19.50566	19.51581	19.52597	19.53613	19.54630
3.95	19.55665	19.56683	19.57681	19.58698	19.59716	19.60734	19.61752	19.62770	19.63789	19.64808
3.96	19.65827	19.66847	19.67855	19.68866	19.69877	19.70927	19.71948	19.72969	19.73990	19.75012
3.97	19.76034	19.77056	19.78078	19.79101	19.80124	19.81147	19.82170	19.83194	19.84218	19.85242
3.98	19.86266	19.87291	19.88315	19.89341	19.90366	19.91392	19.92418	19.93444	19.94471	19.95497
3.99	19.96524	19.97551	19.98579	19.99607	20.00635	20.01663	20.02691	20.03720	20.04749	20.05779
4.00	20.06803	20.07838	20.08865	20.09896	20.10929	20.11960	20.12991	20.14022	20.15054	20.16086
4.01	20.17118	20.18150	20.19183	20.20216	20.21249	20.22282	20.23316	20.24350	20.25384	20.26419
4.02	20.27454	20.28488	20.29523	20.30559	20.31595	20.32631	20.33667	20.34703	20.35740	20.36777
4.03	20.37814	20.38852	20.39890	20.40928	20.41966	20.43005	20.44044	20.45083	20.46122	20.47162
4.04	20.48201	20.49242	20.50282	20.51323	20.52364	20.53405	20.54446	20.55488	20.56530	20.57572
4.05	20.58614	20.59657	20.60700	20.61743	20.62787	20.63830	20.64874	20.65919	20.66963	20.68008
4.06	20.69053	20.70098	20.71144	20.72189	20.73235	20.74282	20.75328	20.76375	20.77422	20.78470
4.07	20.79517	20.80565	20.81613	20.82662	20.83710	20.84759	20.85808	20.86858	20.87907	20.88957
4.08	20.90037	20.91058	20.92108	20.93159	20.94211	20.95262	20.96314	20.97366	20.98418	20.99470
4.09	21.00523	21.01576	21.02629	21.03683	21.04737	21.05791	21.06845	21.07900	21.08954	21.10010

TABLE XI.- RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER - Continued

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
4.10	21.11365	21.12120	21.13176	21.14232	21.15289	21.16345	21.17402	21.18459	21.19517	21.20574
4.11	21.21632	21.22691	21.23749	21.24808	21.25867	21.26926	21.27985	21.29045	21.30105	21.31165
4.12	21.32226	21.33286	21.34347	21.35408	21.36470	21.37532	21.38594	21.39656	21.40719	21.41782
4.13	21.42845	21.43910	21.44977	21.46045	21.47114	21.48184	21.49254	21.50323	21.51393	21.52462
4.14	21.54153	21.55228	21.56302	21.57377	21.58452	21.59527	21.60602	21.61677	21.62752	21.63827
4.15	21.74856	21.75927	21.76999	21.78073	21.79147	21.80221	21.81295	21.82369	21.83443	21.84517
4.17	21.85573	21.86652	21.87726	21.88800	21.89874	21.90949	21.92024	21.93099	21.94173	21.95248
4.18	21.96325	21.97402	21.98479	21.99555	22.00633	22.01710	22.02787	22.03865	22.04943	22.06021
4.19	22.07100	22.08179	22.09256	22.10333	22.11411	22.12489	22.13566	22.14645	22.15723	22.16801
4.20	22.17893	22.18981	22.20068	22.21154	22.22242	22.23329	22.24417	22.25504	22.26592	22.27679
4.21	22.29639	22.30732	22.31826	22.32920	22.34014	22.35108	22.36202	22.37296	22.38390	22.39484
4.22	22.39575	22.40665	22.41755	22.42845	22.43935	22.45025	22.46115	22.47205	22.48295	22.49385
4.23	22.50452	22.51541	22.52631	22.53720	22.54810	22.55900	22.56991	22.58081	22.59172	22.60263
4.24	22.61355	22.62444	22.63533	22.64623	22.65712	22.66802	22.67892	22.68982	22.70072	22.71162
4.25	22.72283	22.73372	22.74461	22.75551	22.76640	22.77730	22.78820	22.79910	22.81000	22.82090
4.26	22.83237	22.84326	22.85415	22.86505	22.87594	22.88684	22.89774	22.90864	22.91954	22.93044
4.27	22.94217	22.95306	22.96395	22.97485	22.98574	22.99664	23.00754	23.01844	23.02934	23.04024
4.28	23.05023	23.06112	23.07201	23.08291	23.09380	23.10470	23.11560	23.12650	23.13740	23.14830
4.29	23.16254	23.17343	23.18433	23.19522	23.20612	23.21701	23.22791	23.23880	23.24970	23.26060
4.30	23.27311	23.28400	23.29489	23.30579	23.31668	23.32758	23.33847	23.34937	23.36026	23.37116
4.31	23.38394	23.39483	23.40572	23.41662	23.42751	23.43841	23.44930	23.46020	23.47109	23.48199
4.32	23.49353	23.50442	23.51531	23.52621	23.53710	23.54800	23.55889	23.56979	23.58068	23.59158
4.33	23.60037	23.61126	23.62215	23.63305	23.64394	23.65484	23.66573	23.67663	23.68752	23.69842
4.34	23.71798	23.72887	23.73976	23.75066	23.76155	23.77245	23.78334	23.79424	23.80513	23.81603
4.35	23.82494	23.83583	23.84672	23.85762	23.86851	23.87941	23.89030	23.90120	23.91209	23.92299
4.36	23.93435	23.94524	23.95613	23.96703	23.97792	23.98882	23.99971	24.01061	24.02150	24.03240
4.37	24.05433	24.06522	24.07611	24.08701	24.09790	24.10880	24.11969	24.13059	24.14148	24.15238
4.38	24.16695	24.17784	24.18873	24.19963	24.21052	24.22142	24.23231	24.24321	24.25410	24.26500
4.39	24.27985	24.29074	24.30163	24.31253	24.32342	24.33432	24.34521	24.35611	24.36700	24.37790
4.40	24.39300	24.40389	24.41478	24.42568	24.43657	24.44746	24.45836	24.46925	24.48015	24.49104
4.41	24.50661	24.51750	24.52839	24.53929	24.55018	24.56107	24.57197	24.58286	24.59376	24.60465
4.42	24.62007	24.63096	24.64185	24.65275	24.66364	24.67453	24.68543	24.69632	24.70722	24.71811
4.43	24.73400	24.74489	24.75578	24.76668	24.77757	24.78846	24.79936	24.81025	24.82115	24.83204
4.44	24.84813	24.85902	24.86991	24.88081	24.89170	24.90260	24.91349	24.92439	24.93528	24.94618
4.45	24.96251	24.97340	24.98429	24.99519	25.00608	25.01697	25.02787	25.03876	25.04966	25.06055
4.46	25.07731	25.08820	25.09909	25.11000	25.12089	25.13178	25.14268	25.15357	25.16447	25.17536
4.47	25.19226	25.20315	25.21404	25.22494	25.23583	25.24673	25.25762	25.26852	25.27941	25.29031
4.48	25.30747	25.31836	25.32925	25.34015	25.35104	25.36193	25.37283	25.38372	25.39462	25.40551
4.49	25.42294	25.43383	25.44472	25.45562	25.46651	25.47741	25.48830	25.49920	25.51009	25.52099
4.50	25.53657	25.54746	25.55835	25.56925	25.58014	25.59104	25.60193	25.61283	25.62372	25.63462
4.51	25.65552	25.66641	25.67731	25.68820	25.69909	25.71000	25.72089	25.73178	25.74268	25.75357
4.52	25.77083	25.78172	25.79261	25.80351	25.81440	25.82530	25.83619	25.84709	25.85798	25.86888
4.53	25.88733	25.89822	25.90911	25.92001	25.93090	25.94180	25.95269	25.96359	25.97448	25.98538
4.54	25.00915	26.01999	26.03083	26.04167	26.05251	26.06335	26.07419	26.08503	26.09587	26.10671
4.55	25.12115	25.13200	25.14284	25.15368	25.16452	25.17536	25.18620	25.19704	25.20788	25.21872
4.56	25.23843	25.24927	25.26011	25.27095	25.28179	25.29263	25.30347	25.31431	25.32515	25.33599
4.57	25.35595	25.36679	25.37763	25.38847	25.39931	25.41015	25.42099	25.43183	25.44267	25.45351
4.58	25.47375	25.48459	25.49543	25.50627	25.51711	25.52795	25.53879	25.54963	25.56047	25.57131
4.59	25.59175	25.60259	25.61343	25.62427	25.63511	25.64595	25.65679	25.66763	25.67847	25.68931

TABLE XI.- RATIO OF IMPACT PRESSURE TO STATIC PRESSURE q_c/p FOR VALUES OF MACH NUMBER - Concluded

Mach number	0	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
4.50	26.71310	26.72134	26.73374	26.74504	26.75749	26.76934	26.78120	26.79305	26.80492	26.81679
4.51	26.82865	26.84353	26.85840	26.87327	26.88815	26.90303	26.91792	26.93280	26.94769	26.96258
4.52	26.94747	26.96537	26.98327	26.99917	27.01507	27.03097	27.04687	27.06277	27.07867	27.09457
4.53	27.06655	27.08547	27.10439	27.12331	27.14223	27.16115	27.18007	27.19899	27.21791	27.23683
4.54	27.18586	27.19765	27.20978	27.22175	27.23369	27.24565	27.25761	27.26957	27.28153	27.29350
4.55	27.30547	27.31745	27.32942	27.34140	27.35338	27.36537	27.37735	27.38934	27.40133	27.41333
4.55	27.42534	27.43732	27.44932	27.46133	27.47333	27.48534	27.49735	27.50937	27.52139	27.53341
4.57	27.56545	27.57745	27.58948	27.60151	27.61354	27.62558	27.63762	27.64966	27.66170	27.67374
4.58	27.66579	27.67784	27.68990	27.70195	27.71401	27.72607	27.73813	27.75020	27.76227	27.77434
4.59	27.78641	27.79849	27.81057	27.82265	27.83473	27.84682	27.85891	27.87100	27.88310	27.89519
4.70	27.90729	27.91934	27.93150	27.94361	27.95572	27.96783	27.97994	27.99206	28.00418	28.01630
4.71	28.02845	28.04056	28.05259	28.06462	28.07665	28.08869	28.10074	28.11278	28.12482	28.13687
4.72	28.14982	28.16198	28.17413	28.18629	28.19845	28.21062	28.22278	28.23495	28.24712	28.25930
4.73	28.27143	28.28356	28.29569	28.30782	28.32021	28.33240	28.34459	28.35679	28.36898	28.38118
4.74	28.39339	28.40559	28.41780	28.43001	28.44222	28.45444	28.46666	28.47888	28.49110	28.50332
4.75	28.51555	28.52776	28.54002	28.55225	28.56448	28.57673	28.58898	28.60122	28.61347	28.62572
4.75	28.63798	28.65024	28.66259	28.67485	28.68702	28.69929	28.71156	28.72383	28.73610	28.74838
4.77	28.76065	28.77294	28.78523	28.79752	28.80981	28.82210	28.83439	28.84669	28.85899	28.87130
4.78	28.88360	28.89591	28.90822	28.92053	28.93285	28.94517	28.95749	28.96981	28.98214	28.99447
4.79	29.00680	29.01913	29.03147	29.04381	29.05615	29.06850	29.08084	29.09319	29.10554	29.11790
4.80	29.13026	29.14262	29.15498	29.16734	29.17971	29.19208	29.20445	29.21683	29.22921	29.24159
4.81	29.25397	29.26635	29.27874	29.29113	29.30353	29.31592	29.32832	29.34072	29.35313	29.36553
4.82	29.37794	29.39035	29.40277	29.41518	29.42760	29.44002	29.45245	29.46487	29.47730	29.48973
4.83	29.50217	29.51451	29.52675	29.53909	29.55143	29.56378	29.57613	29.58848	29.60084	29.61319
4.84	29.52665	29.53912	29.55158	29.56405	29.57652	29.58899	29.60147	29.61395	29.62643	29.63891
4.85	29.75140	29.76339	29.77539	29.78738	29.80137	29.81387	29.82637	29.83887	29.85138	29.86389
4.85	29.87640	29.88831	29.90164	29.91395	29.92647	29.93900	29.95153	29.96405	29.97659	29.98912
4.87	30.00155	30.01420	30.02684	30.03929	30.05184	30.06439	30.07694	30.08949	30.10205	30.11461
4.88	30.12718	30.13974	30.15231	30.16488	30.17746	30.19003	30.20261	30.21519	30.22778	30.24036
4.89	30.25295	30.26554	30.27814	30.29073	30.30333	30.31593	30.32854	30.34115	30.35376	30.36637
4.90	30.37696	30.38950	30.40242	30.41544	30.42847	30.44210	30.45473	30.46736	30.47999	30.49263
4.91	30.50527	30.51792	30.53056	30.54321	30.55585	30.56851	30.58117	30.59383	30.60649	30.61915
4.92	30.63182	30.64449	30.65715	30.66983	30.68251	30.69519	30.70787	30.72056	30.73324	30.74593
4.93	30.75853	30.77132	30.78402	30.79672	30.80942	30.82212	30.83483	30.84754	30.86025	30.87297
4.94	30.89841	30.89841	30.91113	30.92386	30.93659	30.94932	30.96205	30.97479	30.98752	31.00026
4.95	31.01301	31.02575	31.03850	31.05125	31.06401	31.07677	31.08952	31.10229	31.11505	31.12782
4.95	31.14059	31.15336	31.16613	31.17891	31.19169	31.20447	31.21726	31.23004	31.24283	31.25563
4.97	31.26842	31.28122	31.29402	31.30682	31.31963	31.33244	31.34525	31.35806	31.37088	31.38369
4.98	31.39652	31.40934	31.42216	31.43499	31.44782	31.46066	31.47349	31.48633	31.49918	31.51202
4.99	31.52487	31.53772	31.55057	31.56342	31.57628	31.58914	31.60200	31.61486	31.62773	31.64060
5.00	31.65347									

TABLE XII.- SPEED OF SOUND FOR VALUES OF FREE-AIR TEMPERATURE IN DEGREES FAHRENHEIT

(a) Speed of sound in kilometers per hour

T, °F	0	1	2	3	4	5	6	7	8	9
-70	1061.842	1074.034	1072.687	1071.337	1069.986	1068.633	1067.278	1065.922	1064.564	1063.204
-60	1075.381	1087.421	1086.090	1084.757	1083.423	1082.086	1080.749	1079.409	1078.068	1076.725
-50	1088.751	1100.645	1099.330	1098.013	1096.695	1095.375	1094.053	1092.730	1091.405	1090.079
-40	1101.959	1113.712	1112.412	1111.111	1109.808	1108.504	1107.198	1105.891	1104.582	1103.271
-30	1115.010	1126.628	1125.343	1124.056	1122.769	1121.479	1120.189	1118.896	1117.602	1116.307
-20	1127.911	1139.397	1138.126	1136.854	1135.581	1134.306	1133.030	1131.753	1130.473	1129.193
-10	1140.666	1152.024	1150.768	1149.510	1148.251	1146.990	1145.728	1144.464	1143.200	1141.933
0	1153.279	1164.533	1163.286	1162.037	1160.786	1159.535	1158.282	1157.027	1155.772	1154.515
10	1165.756	1176.997	1175.736	1174.474	1173.210	1171.945	1170.679	1169.412	1168.143	1166.873
20	1178.101	1189.329	1188.055	1186.780	1185.503	1184.226	1182.947	1181.667	1180.385	1179.102
30	1190.318	1201.533	1200.247	1198.959	1197.670	1196.380	1195.089	1193.796	1200.003	1201.208
40	1202.411	1213.614	1212.315	1211.016	1209.715	1208.412	1207.109	1205.804	1204.500	1203.192
50	1214.384	1225.475	1224.165	1222.853	1221.540	1220.226	1218.911	1217.595	1216.277	1214.959
60	1226.239	1237.319	1235.997	1234.674	1233.350	1232.024	1230.698	1229.371	1228.042	1226.712
70	1237.981	1248.949	1247.616	1246.282	1244.947	1243.611	1242.273	1240.935	1239.595	1238.255
80	1249.613	1260.577	1259.226	1257.874	1256.520	1255.164	1253.807	1252.449	1251.091	1249.731
90	1261.138	1271.924	1270.559	1269.192	1267.824	1266.455	1265.085	1263.714	1262.342	1260.970
100	1272.558	1282.829	1281.452	1280.074	1278.695	1277.314	1275.932	1274.549	1273.166	1271.782
110	1283.876	1293.876	1292.488	1291.097	1289.704	1288.309	1286.913	1285.516	1284.118	1282.719
120	1295.096	1304.829	1303.431	1302.032	1300.631	1299.228	1297.824	1296.419	1295.014	1293.608

(b) Speed of sound in knots

T, °F	0	1	2	3	4	5	6	7	8	9
-70	573.349	579.933	579.205	578.476	577.746	577.016	576.284	575.552	574.819	574.084
-60	580.659	587.161	586.442	585.722	585.002	584.280	583.558	582.835	582.111	581.385
-50	587.879	594.301	593.591	592.880	592.168	591.455	590.742	590.027	589.312	588.596
-40	595.011	601.357	600.655	599.952	599.249	598.545	597.839	597.134	596.427	595.719
-30	602.058	608.331	607.637	606.942	606.247	605.551	604.854	604.156	603.457	602.758
-20	609.024	615.225	614.539	613.853	613.165	612.477	611.789	611.098	610.407	609.716
-10	615.911	622.044	621.365	620.686	620.006	619.325	618.644	617.962	617.279	616.595
0	622.721	628.798	628.075	627.350	626.625	625.900	625.172	624.445	623.717	622.988
10	629.459	635.428	634.697	633.966	633.233	632.500	631.766	631.032	630.297	629.561
20	636.124	642.087	641.349	640.611	639.871	639.131	638.391	637.649	636.907	636.164
30	642.721	648.577	647.832	647.087	646.341	645.594	644.847	644.100	643.352	642.604
40	649.251	655.097	654.342	653.587	652.831	652.074	651.317	650.560	649.802	649.044
50	655.715	661.551	660.795	660.038	659.281	658.524	657.766	657.008	656.250	655.492
60	662.117	667.942	667.185	666.428	665.670	664.912	664.154	663.396	662.638	661.879
70	668.457	674.272	673.514	672.756	672.000	671.242	670.484	669.726	668.968	668.210
80	674.738	680.543	679.785	679.027	678.269	677.511	676.753	675.995	675.237	674.479
90	680.960	686.755	685.997	685.239	684.481	683.723	682.965	682.207	681.449	680.691
100	687.127	692.912	692.154	691.396	690.638	689.880	689.122	688.364	687.606	686.848
110	693.238	699.013	698.255	697.497	696.739	695.981	695.223	694.465	693.707	692.949
120	699.296	705.061	704.303	703.545	702.787	702.029	701.271	700.513	699.755	698.997

TABLE XIII.- SPEED OF SOUND FOR VALUES OF FREE AIR TEMPERATURE IN DEGREES CELSIUS

(a) Speed of sound in kilometers per hour

T, °C	0	1	2	3	4	5	6	7	8	9
-70	1028.623	1051.161	1048.681	1046.194	1043.702	1041.204	1038.700	1036.190	1033.674	1031.151
-60	1053.635	1075.650	1073.226	1070.797	1068.362	1065.922	1063.476	1061.024	1058.567	1056.104
-50	1078.068	1099.593	1097.222	1094.846	1092.465	1090.079	1087.687	1085.290	1082.888	1080.481
-40	1101.959	1123.026	1120.705	1118.379	1116.048	1113.712	1111.371	1109.026	1106.675	1104.320
-30	1125.343	1145.980	1143.706	1141.426	1139.143	1136.854	1134.561	1132.264	1129.961	1127.654
-20	1148.251	1168.484	1166.253	1164.018	1161.778	1159.535	1157.287	1155.034	1152.777	1150.516
-10	1170.710	1190.562	1188.372	1186.179	1183.981	1181.780	1179.574	1177.364	1175.151	1172.932
0	1192.747	1194.928	1197.106	1199.279	1201.448	1203.614	1205.776	1207.933	1210.087	1212.237
10	1214.384	1216.526	1218.665	1220.800	1222.931	1225.059	1227.183	1229.303	1231.420	1233.533
20	1235.642	1237.748	1239.850	1241.948	1244.043	1246.135	1248.223	1250.308	1252.389	1254.466
30	1256.540	1258.611	1260.679	1262.743	1264.803	1266.860	1268.914	1270.965	1273.012	1275.056
40	1277.097	1279.134	1281.169	1283.200	1285.228	1287.252	1289.274	1291.292	1293.307	1295.319
50	1297.328									

(b) Speed of sound in knots

T, °C	0	1	2	3	4	5	6	7	8	9
-70	555.412	567.582	566.243	564.900	563.555	562.206	560.854	559.498	558.140	556.778
-60	568.918	580.805	579.496	578.184	576.870	575.552	574.231	572.908	571.581	570.251
-50	582.111	593.733	592.453	591.170	589.884	588.596	587.305	586.010	584.713	583.413
-40	595.011	606.386	605.133	603.877	602.618	601.357	600.093	598.826	597.557	596.285
-30	607.637	618.780	617.552	616.321	615.088	613.853	612.615	611.374	610.131	608.885
-20	620.006	630.931	629.727	628.520	627.311	626.099	624.885	623.669	622.450	621.229
-10	632.133	642.852	641.670	640.486	639.299	638.111	636.920	635.726	634.531	633.333
0	644.032	645.210	646.386	647.559	648.731	649.900	651.067	652.232	653.395	654.556
10	655.715	656.872	658.027	659.180	660.331	661.479	662.626	663.771	664.914	666.055
20	667.194	668.331	669.466	670.599	671.730	672.860	673.987	675.113	676.236	677.358
30	678.478	679.596	680.712	681.827	682.940	684.050	685.159	686.267	687.372	688.476
40	689.578	690.678	691.776	692.873	693.968	695.061	696.153	697.242	698.330	699.417
50	700.502									

TABLE XIV.- TEMPERATURE, SPEED OF SOUND, AND DENSITY FOR VALUES OF PRESSURE ALTITUDE

Pressure altitude, H, geopotential meters	Temperature, °F	Temperature, °C	Speed of sound, a, km/hr	Speed of sound, a, knots	Density, ρ , kg/m ³
0	59.000	15.000	1225.059	661.479	1.225000
500	53.150	11.750	1218.131	657.738	1.167300
1000	47.300	8.500	1211.163	653.976	1.111600
1500	41.450	5.250	1204.155	650.192	1.052810
2000	35.600	2.000	1197.106	646.386	1.006500
2500	29.750	-1.250	1190.015	642.557	.956860
3000	23.900	-4.500	1182.881	638.705	.909120
3500	18.050	-7.750	1175.704	634.830	.863230
4000	12.200	-11.000	1168.484	630.931	.819130
4500	6.350	-14.250	1161.218	627.008	.776770
5000	.500	-17.500	1153.906	623.060	.736120
5500	-5.350	-20.750	1146.548	619.087	.697110
6000	-11.200	-24.000	1139.143	615.088	.659700
6500	-17.050	-27.250	1131.689	611.063	.623840
7000	-22.900	-30.500	1124.185	607.012	.589500
7500	-28.750	-33.750	1116.631	602.933	.556620
8000	-34.600	-37.000	1109.026	598.826	.525170
8500	-40.450	-40.250	1101.368	594.692	.495090
9000	-46.300	-43.500	1093.656	590.528	.466350
9500	-52.150	-46.750	1085.890	586.334	.438900
10000	-58.000	-50.000	1078.068	582.111	.412710
10500	-63.850	-53.250	1070.189	577.856	.387720
11000	-69.700	-56.500	1062.251	573.570	.363920
11500	-69.700	-56.500	1062.251	573.570	.336330
12000	-69.700	-56.500	1062.251	573.570	.310830
12500	-69.700	-56.500	1062.251	573.570	.287260
13000	-69.700	-56.500	1062.251	573.570	.265480
13500	-69.700	-56.500	1062.251	573.570	.245350
14000	-69.700	-56.500	1062.251	573.570	.226750
14500	-69.700	-56.500	1062.251	573.570	.209560
15000	-69.700	-56.500	1062.251	573.570	.193670
15500	-69.700	-56.500	1062.251	573.570	.178990
16000	-69.700	-56.500	1062.251	573.570	.165420
16500	-69.700	-56.500	1062.251	573.570	.152880
17000	-69.700	-56.500	1062.251	573.570	.141290
17500	-69.700	-56.500	1062.251	573.570	.130580
18000	-69.700	-56.500	1062.251	573.570	.120680
18500	-69.700	-56.500	1062.251	573.570	.111530
19000	-69.700	-56.500	1062.251	573.570	.103070
19500	-69.700	-56.500	1062.251	573.570	.095257
20000	-69.700	-56.500	1062.251	573.570	.088035
20500	-68.800	-56.000	1063.476	574.231	.081180
21000	-67.900	-55.500	1064.699	574.892	.074873
21500	-67.000	-55.000	1065.922	575.552	.069069
22000	-66.100	-54.500	1067.143	576.211	.063727
22500	-65.200	-54.000	1068.362	576.870	.058809
23000	-64.300	-53.500	1069.580	577.527	.054280
23500	-63.400	-53.000	1070.797	578.184	.050109
24000	-62.500	-52.500	1072.012	578.841	.046267
24500	-61.600	-52.000	1073.226	579.496	.042727
25000	-60.700	-51.500	1074.438	580.151	.039466
25500	-59.800	-51.000	1075.650	580.805	.036549
26000	-58.900	-50.500	1076.859	581.458	.033688
26500	-58.000	-50.000	1078.068	582.111	.031133
27000	-57.100	-49.500	1079.275	582.762	.028777
27500	-56.200	-49.000	1080.481	583.413	.026604
28000	-55.300	-48.500	1081.685	584.064	.024599
28500	-54.400	-48.000	1082.888	584.713	.022749
29000	-53.500	-47.500	1084.090	585.362	.021042
29500	-52.600	-47.000	1085.290	586.010	.019466
30000	-51.700	-46.500	1086.490	586.658	.018012