NACA TN 3831 10192

TECH LIBRARY KAFB, NM
0066753

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

TECHNICAL NOTE 3831

TABULATION OF MASS-FLOW PARAMETERS FOR USE IN DESIGN OF TURBOMACHINE BLADE ROWS FOR RATIOS OF SPECIFIC HEATS OF 1.3 AND 1.4

By Warren J. Whitney

Lewis Flight Propulsion Laboratory
Cleveland, Ohio

Washington
October 1956

AFM C
TECHNICAL LIBRARY
AFL 2811

TECH LIBRARY KAFB, NM

0066753

NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS

TECHNICAL NOTE 3831

TABULATION OF MASS-FLOW PARAMETERS FOR USE IN DESIGN OF TURBOMACHINE BLADE ROWS FOR RATIOS OF SPECIFIC HEATS OF 1.3 AND 1.4

By Warren J. Whitney

SUMMARY

Mass-flow tables for ratios of specific heats γ of 1.3 and 1.4 are presented for the entire range of critical velocity ratio. The tables enable a quick and accurate determination of the integrated average specific mass flow across a region where the end-point velocities are known, commensurate with the assumptions that the total state is constant and the static pressure varies linearly between the two velocities. A numerical example is included to illustrate the use of the tables. All quantities are in nondimensional form and are tabulated against critical velocity ratio. The tables include specific-mass-flow parameter and ratio of static to total pressure.

INTRODUCTION

In a comprehensive turbine blading design procedure, the blade surface velocities are determined at two or three radial sections by a method such as that of reference 1. The blade surfaces and average velocity level are then adjusted until the blade passage satisfies the design mass-flow-handling requirement, and the blade surface velocity variations are reasonably close to the prescribed velocity variation. Thus, it is necessary to determine the integrated mass flow at various locations throughout the blade passage. The two assumptions that have frequently been used in turbine blading design procedure to determine the integrated mass flow are: (1) The total state of the fluid is constant along a potential line (or channel orthogonal), and (2) the static pressure varies linearly along the orthogonal between known (or computed) velocities. In order to facilitate mass-flow integrations commensurate with these assumptions, tables I and II were computed.

In addition to the quantity used to obtain average integrated mass-flow parameter, the point values of mass-flow parameter and static- to total-pressure ratio are tabulated against critical velocity ratio.

Although the specific-mass-flow parameter could be obtained from reference 2 as the product of the density ratio and the critical velocity ratio, the quantities in the reference are tabulated against Mach number, and it would be required to extrapolate in many cases for a desired critical velocity ratio.

SYMBOLS

4187

A value of integral $-\int_{\frac{p}{p'}=1.0}^{\frac{p}{p'}} \left(\frac{\rho V}{\rho' V_{cr}}\right) d\left(\frac{p}{p'}\right)$

p absolute static pressure, lb/sq ft

p' absolute total pressure, lb/sq ft

V gas velocity, ft/sec

V_{cr} velocity of sound at Mach number of 1.0, ft/sec

γ ratio of specific heats

ρ gas density based on static temperature and static pressure, lb/cu ft

ρ' gas density based on total temperature and total pressure, lb/cu ft

CONSTRUCTION OF TABLES

The density ratio and pressure ratio were expressed as functions of the critical velocity ratio as follows:

$$\frac{\rho}{\rho'} = \left[1 - \frac{\gamma - 1}{\gamma + 1}\left(\frac{V}{V_{cr}}\right)^2\right]^{\frac{1}{\gamma-1}}$$

$$\frac{p}{p'} = \left[1 - \frac{\gamma - 1}{\gamma + 1}\left(\frac{V}{V_{cr}}\right)^2\right]^{\frac{\gamma}{\gamma-1}}$$

The pressure ratio, density ratio, and specific-mass-flow parameter were evaluated over a range of critical velocity ratio from 0 to the maximum

value $\left(\text{given by } \left(\frac{\gamma + 1}{\gamma - 1}\right)^{1/2}\right)$ for γ of 1.3 and 1.4. The integral A was determined by a step-by-step trapezoidal integration between successive V/V_{cr} values that differed by 0.001. Each elemental area, dA, was combined with the previous total so that the A value represents the cumulative area for any particular critical velocity ratio.

The variation of specific-mass-flow parameter with static- to total-pressure ratio is shown in figure 1. Included in the figure for reference is an auxiliary abscissa of critical velocity ratio that is necessarily nonlinear, because a linear static-pressure variation was specified. This figure shows that the average integrated mass flow (commensurate with the assumptions used herein) between known critical velocity ratios of approximately 0.5 and 0.95 would be the area, bcde, divided by the abscissa be. However, the A values represent the cumulative area under the curve of $\rho V/\rho' V_{cr}$ as a function of the ratio of static to total pressure p/p'. Thus, the difference in A values for the two critical velocity ratios is equal to the area bcde. Although the quantity A can be integrated directly, it was convenient to use a point-by-point integration, since it was desired to obtain p/p' and $\rho V/\rho' V_{cr}$ for the various V/V_{cr} values. Furthermore, for a value of γ for which $2/(\gamma-1)$ does not equal a whole number, direct integration results in a power series, and a large number of terms must be used to obtain the desired accuracy.

4187

CB-1 back

USE OF TABLES

The tables can be used for a moving (or rotating) blade row as well as for a stationary blade row. In the case of a rotating blade row, the velocity V and the total-state quantities ρ' and V_{cr} must be evaluated relative to the moving blade row. The following numerical example is included to illustrate the use of the tables. A sketch of a typical turbine blade flow channel is shown in figure 2. It is assumed that the velocities have been determined for all the orthogonals at the two surfaces (e.g., points c and d, fig. 2) by the stream-filament method (ref. 1). It is desired to obtain the average integrated mass flow for the various orthogonals. Referring to figure 2, the following critical velocity ratios are assumed for the orthogonal cd:

Point c (suction surface): $V/V_{cr} = 0.996$

Point d (pressure surface): $V/V_{cr} = 0.558$

The integrated average mass flow is determined from table I ($\gamma = 1.4$) as follows:

Point	c	d
V/V_{cr}	0.996	0.558
A (from table I)	.2332614	.0577960
(p/p')(from table I)	.5312402	.8298491

The average integrated specific mass flow for the orthogonal cd is equal to $\left(\frac{\Delta A}{-\Delta \frac{p}{p'}}\right)_{c-d}$ or 0.5876094. The actual weight flow can then be obtained by multiplying by the total-state quantity, $\rho' V_{cr}$. Thus, the mass flow per unit depth would be $0.5876094 \times (\rho' V_{cr}) \times cd$.

4187

Lewis Flight Propulsion Laboratory
National Advisory Committee for Aeronautics
Cleveland, Ohio, July 17, 1956

REFERENCES

1. Huppert, M. C., and MacGregor, Charles: Comparison Between Predicted and Observed Performance of Gas-Turbine Stator Blade Designed for Free-Vortex Flow. NACA TN 1810, 1949.

2. Ames Research Staff: Equations, Tables, and Charts for Compressible Flow. NACA Rep. 1135, 1953. (Supersedes NACA TN 1428.)

4187

TABLE I. - MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.000	0.0000000	1.0000000	0.0000000
.001	.0010000	.9999992	.0000000
.002	.0020000	.9999974	.0000000
.003	.0030000	.9999946	.0000000
.004	.0040000	.9999904	.0000000
.005	.0049999	.9999852	.0000000
.006	.0059999	.9999789	.0000001
.007	.0069999	.9999712	.0000001
.008	.0079998	.9999624	.0000002
.009	.0089997	.9999526	.0000003
.010	.0099996	.9999414	.0000004
.011	.0109994	.9999292	.0000005
.012	.0119993	.9999159	.0000007
.013	.0129991	.9999012	.0000009
.014	.0139989	.9998854	.0000011
.015	.0149986	.9998686	.0000013
.016	.0159983	.9998504	.0000016
.017	.0169979	.9998312	.0000019
.018	.0179976	.9998109	.0000023
.019	.0189971	.9997892	.0000027
.020	.0199967	.9997665	.0000031
.021	.0209961	.9997426	.0000036
.022	.0219956	.9997175	.0000041
.023	.0229949	.9996912	.0000047
.024	.0239942	.9996639	.0000054
.025	.0249935	.9996352	.0000061
.026	.0259927	.9996055	.0000068
.027	.0269918	.9995747	.0000076
.028	.0279908	.9995425	.0000085
.029	.0289898	.9995093	.0000095
.030	.0299887	.9994750	.0000105
.031	.0309876	.9994393	.0000116
.032	.0319863	.9994026	.0000127
.033	.0329850	.9993648	.0000140
.034	.0339836	.9993256	.0000153
.035	.0349821	.9992854	.0000167
.036	.0359806	.9992441	.0000181
.037	.0369789	.9992014	.0000197
.038	.0379771	.9991577	.0000213
.039	.0389753	.9991129	.0000230
.040	.0399733	.9990667	.0000249
.041	.0409713	.9990195	.0000268
.042	.0419691	.9989713	.0000288
.043	.0429669	.9989216	.0000309
.044	.0439645	.9988709	.0000331
.045	.0449620	.9988191	.0000354
.046	.0459594	.9987660	.0000378
.047	.0469567	.9987118	.0000403
.048	.0479539	.9986565	.0000430
.049	.0489510	.9985999	.0000457
.050	.0499479	.9985422	.0000485

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.051	0.0509447	0.9984835	0.0000515
.052	.0519414	.9984233	.0000546
.053	.0529380	.9983621	.0000578
.054	.0539344	.9982999	.0000611
.055	.0549307	.9982363	.0000646
.056	.0559268	.9981716	.0000682
.057	.0569229	.9981059	.0000719
.058	.0579187	.9980388	.0000757
.059	.0589145	.9979707	.0000797
.060	.0599100	.9979015	.0000838
.061	.0609055	.9978309	.0000881
.062	.0619007	.9977592	.0000925
.063	.0628959	.9976865	.0000970
.064	.0638908	.9976125	.0001017
.065	.0648856	.9975374	.0001066
.066	.0658803	.9974612	.0001115
.067	.0668747	.9973836	.0001167
.068	.0678690	.9973050	.0001220
.069	.0688632	.9972254	.0001274
.070	.0698572	.9971443	.0001331
.071	.0708510	.9970623	.0001388
.072	.0718446	.9969792	.0001448
.073	.0728380	.9968946	.0001509
.074	.0738313	.9968091	.0001572
.075	.0748243	.9967225	.0001636
.076	.0758172	.9966345	.0001702
.077	.0768099	.9965455	.0001770
.078	.0778024	.9964554	.0001840
.079	.0787947	.9963639	.0001911
.080	.0797868	.9962714	.0001985
.081	.0807787	.9961779	.0002060
.082	.0817704	.9960829	.0002137
.083	.0827619	.9959869	.0002216
.084	.0837532	.9958899	.0002297
.085	.0847443	.9957915	.0002380
.086	.0857352	.9956921	.0002464
.087	.0867259	.9955916	.0002551
.088	.0877163	.9954897	.0002640
.089	.0887065	.9953868	.0002731
.090	.0896965	.9952829	.0002823
.091	.0906863	.9951775	.0002918
.092	.0916759	.9950711	.0003015
.093	.0926652	.9949637	.0003114
.094	.0936543	.9948549	.0003216
.095	.0946431	.9947451	.0003319
.096	.0956318	.9946342	.0003425
.097	.0966201	.9945219	.0003533
.098	.0976083	.9944086	.0003643
.099	.0985962	.9942943	.0003755
.100	.0995838	.9941786	.0003869

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.101	0.1005712	0.9940618	0.0003986
.102	.1015584	.9939440	.0004105
.103	.1025453	.9938249	.0004227
.104	.1035319	.9937046	.0004351
.105	.1045183	.9935834	.0004477
.106	.1055044	.9934608	.0004606
.107	.1064903	.9933371	.0004737
.108	.1074759	.9932124	.0004870
.109	.1084612	.9930863	.0005006
.110	.1094462	.9929592	.0005145
.111	.1104310	.9928311	.0005286
.112	.1114155	.9927015	.0005429
.113	.1123997	.9925710	.0005575
.114	.1133837	.9924394	.0005724
.115	.1143673	.9923064	.0005875
.116	.1153507	.9921724	.0006029
.117	.1163338	.9920374	.0006186
.118	.1173166	.9919010	.0006345
.119	.1182991	.9917635	.0006507
.120	.1192813	.9916251	.0006672
.121	.1202632	.9914852	.0006839
.122	.1212448	.9913443	.0007009
.123	.1222261	.9912024	.0007182
.124	.1232071	.9910591	.0007358
.125	.1241878	.9909148	.0007536
.126	.1251682	.9907695	.0007717
.127	.1261482	.9906228	.0007902
.128	.1271280	.9904750	.0008089
.129	.1281074	.9903262	.0008279
.130	.1290865	.9901761	.0008472
.131	.1300653	.9900249	.0008668
.132	.1310438	.9898727	.0008866
.133	.1320219	.9897192	.0009068
.134	.1329997	.9895646	.0009273
.135	.1339772	.9894089	.0009481
.136	.1349543	.9892519	.0009692
.137	.1359311	.9890939	.0009906
.138	.1369076	.9889349	.0010123
.139	.1378837	.9887745	.0010344
.140	.1388594	.9886131	.0010567
.141	.1398349	.9884506	.0010793
.142	.1408099	.9882868	.0011023
.143	.1417847	.9881219	.0011256
.144	.1427591	.9879560	.0011492
.145	.1437331	.9877888	.0011732
.146	.1447067	.9876206	.0011974
.147	.1456800	.9874513	.0012220
.148	.1466529	.9872806	.0012470
.149	.1476255	.9871090	.0012722
.150	.1485977	.9869363	.0012978

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.151	0.1495695	0.9867623	0.0013237
.152	.1505409	.9865872	.0013500
.153	.1515120	.9864111	.0013766
.154	.1524827	.9862337	.0014036
.155	.1534530	.9860552	.0014309
.156	.1544230	.9858757	.0014585
.157	.1553925	.9856949	.0014865
.158	.1563616	.9855130	.0015149
.159	.1573304	.9853301	.0015435
.160	.1582988	.9851459	.0015726
.161	.1592667	.9849607	.0016020
.162	.1602343	.9847744	.0016318
.163	.1612015	.9845868	.0016619
.164	.1621683	.9843982	.0016924
.165	.1631346	.9842085	.0017233
.166	.1641006	.9840175	.0017545
.167	.1650661	.9838255	.0017861
.168	.1660313	.9836325	.0018181
.169	.1669960	.9834381	.0018505
.170	.1679603	.9832427	.0018832
.171	.1689242	.9830463	.0019163
.172	.1698876	.9828486	.0019498
.173	.1708507	.9826498	.0019836
.174	.1718133	.9824500	.0020179
.175	.1727754	.9822489	.0020525
.176	.1737372	.9820468	.0020875
.177	.1746985	.9818436	.0021229
.178	.1756594	.9816391	.0021587
.179	.1766198	.9814336	.0021949
.180	.1775798	.9812271	.0022315
.181	.1785394	.9810193	.0022685
.182	.1794985	.9808104	.0023059
.183	.1804571	.9806006	.0023437
.184	.1814153	.9803894	.0023819
.185	.1823731	.9801771	.0024205
.186	.1833304	.9799639	.0024595
.187	.1842872	.9797494	.0024989
.188	.1852436	.9795338	.0025387
.189	.1861995	.9793173	.0025790
.190	.1871549	.9790993	.0026196
.191	.1881099	.9788804	.0026607
.192	.1890644	.9786605	.0027022
.193	.1900185	.9784393	.0027441
.194	.1909720	.9782171	.0027865
.195	.1919251	.9779938	.0028292
.196	.1928777	.9777692	.0028724
.197	.1938298	.9775437	.0029160
.198	.1947815	.9773171	.0029600
.199	.1957326	.9770892	.0030045
.200	.1966833	.9768602	.0030495

4187

4187

CB-2

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.201	0.1976335	0.9766303	0.0030948
.202	.1985831	.9763991	.0031406
.203	.1995323	.9761669	.0031868
.204	.2004810	.9759336	.0032335
.205	.2014292	.9756991	.0032806
.206	.2023768	.9754635	.0033282
.207	.2033240	.9752270	.0033762
.208	.2042707	.9749891	.0034246
.209	.2052168	.9747502	.0034735
.210	.2061625	.9745104	.0035229
.211	.2071076	.9742692	.0035727
.212	.2080522	.9740270	.0036230
.213	.2089963	.9737838	.0036737
.214	.2099398	.9735394	.0037249
.215	.2108829	.9732939	.0037766
.216	.2118254	.9730474	.0038286
.217	.2127674	.9727996	.0038813
.218	.2137088	.9725508	.0039343
.219	.2146497	.9723011	.0039878
.220	.2155901	.9720500	.0040418
.221	.2165299	.9717979	.0040963
.222	.2174693	.9715449	.0041512
.223	.2184080	.9712905	.0042066
.224	.2193462	.9710351	.0042625
.225	.2202839	.9707788	.0043189
.226	.2212210	.9705211	.0043757
.227	.2221575	.9702625	.0044331
.228	.2230935	.9700029	.0044909
.229	.2240290	.9697420	.0045492
.230	.2249639	.9694800	.0046080
.231	.2258982	.9692172	.0046673
.232	.2268319	.9689529	.0047271
.233	.2277651	.9686878	.0047874
.234	.2286978	.9684216	.0048481
.235	.2296298	.9681541	.0049094
.236	.2305613	.9678857	.0049712
.237	.2314922	.9676163	.0050334
.238	.2324225	.9673455	.0050962
.239	.2333522	.9670738	.0051595
.240	.2342814	.9668012	.0052232
.241	.2352099	.9665272	.0052875
.242	.2361379	.9662522	.0053523
.243	.2370653	.9659763	.0054176
.244	.2379921	.9656991	.0054835
.245	.2389183	.9654209	.0055498
.246	.2398439	.9651417	.0056166
.247	.2407689	.9648612	.0056840
.248	.2416933	.9645798	.0057519
.249	.2426171	.9642974	.0058203
.250	.2435403	.9640137	.0058893

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.251	0.2444629	0.9637290	0.0059587
.252	.2453849	.9634434	.0060287
.253	.2463062	.9631565	.0060992
.254	.2472270	.9628686	.0061703
.255	.2481471	.9625797	.0062418
.256	.2490666	.9622896	.0063140
.257	.2499855	.9619985	.0063866
.258	.2509038	.9617064	.0064598
.259	.2518214	.9614130	.0065335
.260	.2527384	.9611187	.0066077
.261	.2536548	.9608234	.0066825
.262	.2545705	.9605268	.0067579
.263	.2554856	.9602293	.0068338
.264	.2564001	.9599308	.0069102
.265	.2573139	.9596310	.0069872
.266	.2582271	.9593303	.0070647
.267	.2591396	.9590286	.0071427
.268	.2600515	.9587256	.0072214
.269	.2609627	.9584217	.0073005
.270	.2618733	.9581168	.0073802
.271	.2627832	.9578107	.0074606
.272	.2636925	.9575036	.0075414
.273	.2646011	.9571955	.0076228
.274	.2655090	.9568862	.0077048
.275	.2664163	.9565759	.0077873
.276	.2673230	.9562646	.0078703
.277	.2682289	.9559521	.0079540
.278	.2691342	.9556387	.0080383
.279	.2700388	.9553243	.0081230
.280	.2709427	.9550086	.0082084
.281	.2718460	.9546919	.0082943
.282	.2727486	.9543744	.0083808
.283	.2736505	.9540555	.0084679
.284	.2745517	.9537357	.0085556
.285	.2754522	.9534150	.0086438
.286	.2763520	.9530930	.0087326
.287	.2772512	.9527701	.0088220
.288	.2781497	.9524462	.0089119
.289	.2790474	.9521211	.0090025
.290	.2799444	.9517950	.0090937
.291	.2808408	.9514680	.0091853
.292	.2817365	.9511397	.0092777
.293	.2826314	.9508105	.0093706
.294	.2835257	.9504803	.0094640
.295	.2844192	.9501489	.0095582
.296	.2853120	.9498166	.0096528
.297	.2862042	.9494833	.0097481
.298	.2870956	.9491488	.0098440
.299	.2879862	.9488133	.0099404
.300	.2888762	.9484769	.0100374

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.301	0.2897654	0.9481393	0.0101351
.302	.2906540	.9478007	.0102334
.303	.2915418	.9474612	.0103322
.304	.2924288	.9471204	.0104317
.305	.2933151	.9467787	.0105318
.306	.2942008	.9464361	.0106324
.307	.2950856	.9460923	.0107338
.308	.2959697	.9457475	.0108356
.309	.2968531	.9454018	.0109381
.310	.2977357	.9450548	.0110413
.311	.2986176	.9447070	.0111450
.312	.2994988	.9443582	.0112493
.313	.3003792	.9440081	.0113543
.314	.3012589	.9436572	.0114599
.315	.3021378	.9433053	.0115660
.316	.3030159	.9429522	.0116729
.317	.3038933	.9425982	.0117803
.318	.3047699	.9422432	.0118883
.319	.3056458	.9418870	.0119970
.320	.3065209	.9415299	.0121063
.321	.3073952	.9411719	.0122162
.322	.3082688	.9408127	.0123268
.323	.3091416	.9404525	.0124380
.324	.3100136	.9400915	.0125498
.325	.3108849	.9397292	.0126622
.326	.3117553	.9393660	.0127753
.327	.3126251	.9390018	.0128890
.328	.3134939	.9386365	.0130034
.329	.3143621	.9382702	.0131183
.330	.3152294	.9379031	.0132339
.331	.3160960	.9375347	.0133502
.332	.3169617	.9371654	.0134671
.333	.3178267	.9367952	.0135846
.334	.3186909	.9364238	.0137028
.335	.3195543	.9360515	.0138216
.336	.3204169	.9356783	.0139410
.337	.3212786	.9353039	.0140612
.338	.3221396	.9349286	.0141819
.339	.3229998	.9345523	.0143033
.340	.3238592	.9341749	.0144253
.341	.3247177	.9337966	.0145480
.342	.3255755	.9334173	.0146713
.343	.3264324	.9330369	.0147954
.344	.3272885	.9326555	.0149200
.345	.3281439	.9322733	.0150453
.346	.3289983	.9318899	.0151713
.347	.3298520	.9315055	.0152979
.348	.3307048	.9311203	.0154251
.349	.3315568	.9307339	.0155531
.350	.3324080	.9303466	.0156816

4187

CB-2 back

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.351	0.3332584	0.9299584	0.0158108
.352	.3341078	.9295690	.0159408
.353	.3349565	.9291787	.0160713
.354	.3358044	.9287875	.0162025
.355	.3366514	.9283952	.0163345
.356	.3374975	.9280019	.0164670
.357	.3383429	.9276078	.0166002
.358	.3391873	.9272124	.0167341
.359	.3400310	.9268162	.0168687
.360	.3408738	.9264191	.0170039
.361	.3417157	.9260209	.0171398
.362	.3425567	.9256217	.0172764
.363	.3433970	.9252217	.0174136
.364	.3442363	.9248204	.0175515
.365	.3450748	.9244183	.0176901
.366	.3459125	.9240154	.0178293
.367	.3467492	.9236112	.0179693
.368	.3475851	.9232062	.0181099
.369	.3484202	.9228003	.0182512
.370	.3492543	.9223932	.0183932
.371	.3500876	.9219853	.0185358
.372	.3509201	.9215764	.0186791
.373	.3517516	.9211664	.0188232
.374	.3525822	.9207556	.0189678
.375	.3534120	.9203439	.0191132
.376	.3542409	.9199309	.0192593
.377	.3550689	.9195172	.0194060
.378	.3558961	.9191026	.0195534
.379	.3567223	.9186868	.0197016
.380	.3575476	.9182701	.0198504
.381	.3583721	.9178526	.0199998
.382	.3591956	.9174339	.0201500
.383	.3600183	.9170144	.0203009
.384	.3608401	.9165940	.0204524
.385	.3616609	.9161724	.0206047
.386	.3624809	.9157500	.0207577
.387	.3633000	.9153267	.0209113
.388	.3641181	.9149023	.0210656
.389	.3649353	.9144770	.0212207
.390	.3657516	.9140509	.0213764
.391	.3665670	.9136236	.0215328
.392	.3673815	.9131954	.0216899
.393	.3681951	.9127665	.0218477
.394	.3690077	.9123363	.0220062
.395	.3698195	.9119053	.0221655
.396	.3706303	.9114735	.0223253
.397	.3714402	.9110405	.0224860
.398	.3722491	.9106067	.0226473
.399	.3730572	.9101721	.0228093
.400	.3738642	.9097363	.0229720

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.401	0.3746704	0.9092996	0.0231355
.402	.3754756	.9088621	.0232995
.403	.3762799	.9084235	.0234644
.404	.3770832	.9079840	.0236299
.405	.3778857	.9075438	.0237961
.406	.3786871	.9071023	.0239631
.407	.3794876	.9066600	.0241308
.408	.3802872	.9062169	.0242991
.409	.3810858	.9057727	.0244682
.410	.3818835	.9053276	.0246380
.411	.3826802	.9048818	.0248085
.412	.3834759	.9044347	.0249797
.413	.3842707	.9039869	.0251516
.414	.3850646	.9035382	.0253242
.415	.3858574	.9030884	.0254976
.416	.3866493	.9026378	.0256717
.417	.3874403	.9021863	.0258464
.418	.3882302	.9017337	.0260219
.419	.3890192	.9012803	.0261981
.420	.3898073	.9008261	.0263750
.421	.3905943	.9003708	.0265527
.422	.3913804	.8999146	.0267310
.423	.3921656	.8994577	.0269101
.424	.3929497	.8989996	.0270899
.425	.3937328	.8985407	.0272704
.426	.3945150	.8980810	.0274516
.427	.3952961	.8976201	.0276336
.428	.3960763	.8971585	.0278162
.429	.3968556	.8966961	.0279996
.430	.3976337	.8962325	.0281837
.431	.3984110	.8957682	.0283685
.432	.3991872	.8953030	.0285540
.433	.3999624	.8948367	.0287403
.434	.4007366	.8943696	.0289273
.435	.4015099	.8939018	.0291150
.436	.4022821	.8934328	.0293035
.437	.4030533	.8929630	.0294927
.438	.4038235	.8924924	.0296825
.439	.4045927	.8920208	.0298732
.440	.4053609	.8915483	.0300645
.441	.4061281	.8910750	.0302565
.442	.4068943	.8906007	.0304494
.443	.4076594	.8901255	.0306429
.444	.4084236	.8896496	.0308371
.445	.4091866	.8891725	.0310321
.446	.4099487	.8886947	.0312278
.447	.4107098	.8882161	.0314242
.448	.4114698	.8877364	.0316214
.449	.4122289	.8872559	.0318193
.450	.4129869	.8867746	.0320179

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.451	0.4137438	0.8862922	0.0322173
.452	.4144997	.8858091	.0324173
.453	.4152546	.8853252	.0326181
.454	.4160085	.8848402	.0328197
.455	.4167613	.8843544	.0330220
.456	.4175131	.8838678	.0332249
.457	.4182638	.8833802	.0334287
.458	.4190134	.8828918	.0336332
.459	.4197621	.8824026	.0338383
.460	.4205097	.8819123	.0340443
.461	.4212562	.8814213	.0342510
.462	.4220017	.8809295	.0344583
.463	.4227461	.8804366	.0346665
.464	.4234895	.8799430	.0348754
.465	.4242319	.8794486	.0350849
.466	.4249731	.8789531	.0352953
.467	.4257133	.8784569	.0355064
.468	.4264525	.8779599	.0357181
.469	.4271905	.8774618	.0359307
.470	.4279275	.8769630	.0361440
.471	.4286635	.8764634	.0363580
.472	.4293983	.8759628	.0365728
.473	.4301321	.8754614	.0367882
.474	.4308649	.8749593	.0370044
.475	.4315965	.8744561	.0372214
.476	.4323270	.8739521	.0374391
.477	.4330566	.8734474	.0376575
.478	.4337849	.8729416	.0378767
.479	.4345123	.8724351	.0380966
.480	.4352386	.8719279	.0383172
.481	.4359637	.8714196	.0385386
.482	.4366877	.8709105	.0387607
.483	.4374107	.8704007	.0389835
.484	.4381326	.8698899	.0392071
.485	.4388534	.8693783	.0394315
.486	.4395731	.8688660	.0396565
.487	.4402917	.8683527	.0398823
.488	.4410092	.8678386	.0401089
.489	.4417256	.8673237	.0403361
.490	.4424409	.8668079	.0405641
.491	.4431551	.8662913	.0407929
.492	.4438682	.8657740	.0410223
.493	.4445801	.8652556	.0412526
.494	.4452910	.8647365	.0414835
.495	.4460008	.8642167	.0417152
.496	.4467094	.8636958	.0419477
.497	.4474170	.8631743	.0421809
.498	.4481234	.8626520	.0424147
.499	.4488287	.8621286	.0426494
.500	.4495329	.8616046	.0428848

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.501	0.4502359	0.8610798	0.0431209
.502	.4509378	.8605540	.0433578
.503	.4516386	.8600275	.0435954
.504	.4523384	.8595003	.0438337
.505	.4530369	.8589721	.0440728
.506	.4537343	.8584431	.0443127
.507	.4544306	.8579135	.0445532
.508	.4551257	.8573828	.0447945
.509	.4558198	.8568514	.0450365
.510	.4565127	.8563193	.0452793
.511	.4572044	.8557862	.0455228
.512	.4578950	.8552524	.0457671
.513	.4585845	.8547179	.0460120
.514	.4592728	.8541824	.0462578
.515	.4599599	.8536462	.0465042
.516	.4606460	.8531092	.0467514
.517	.4613308	.8525713	.0469993
.518	.4620146	.8520327	.0472480
.519	.4626972	.8514934	.0474974
.520	.4633785	.8509531	.0477475
.521	.4640588	.8504121	.0479984
.522	.4647379	.8498704	.0482500
.523	.4654159	.8493277	.0485024
.524	.4660926	.8487843	.0487555
.525	.4667683	.8482402	.0490092
.526	.4674427	.8476952	.0492638
.527	.4681160	.8471494	.0495191
.528	.4687882	.8466030	.0497751
.529	.4694591	.8460556	.0500319
.530	.4701289	.8455075	.0502894
.531	.4707975	.8449587	.0505476
.532	.4714649	.8444090	.0508066
.533	.4721312	.8438586	.0510663
.534	.4727963	.8433075	.0513266
.535	.4734602	.8427554	.0515878
.536	.4741229	.8422026	.0518497
.537	.4747845	.8416492	.0521123
.538	.4754448	.8410948	.0523757
.539	.4761039	.8405397	.0526398
.540	.4767620	.8399840	.0529046
.541	.4774187	.8394273	.0531702
.542	.4780743	.8388699	.0534365
.543	.4787288	.8383119	.0537034
.544	.4793820	.8377529	.0539712
.545	.4800340	.8371932	.0542397
.546	.4806849	.8366329	.0545088
.547	.4813344	.8360716	.0547788
.548	.4819829	.8355097	.0550495
.549	.4826301	.8349471	.0553208
.550	.4832761	.8343835	.0555930

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.551	0.4839210	0.8338193	0.0558658
.552	.4845646	.8332545	.0561393
.553	.4852070	.8326887	.0564137
.554	.4858482	.8321222	.0566887
.555	.4864882	.8315551	.0569644
.556	.4871269	.8309871	.0572410
.557	.4877645	.8304184	.0575182
.558	.4884009	.8298491	.0577960
.559	.4890359	.8292788	.0580748
.560	.4896699	.8287079	.0583541
.561	.4903026	.8281364	.0586342
.562	.4909340	.8275639	.0589150
.563	.4915642	.8269907	.0591966
.564	.4921933	.8264170	.0594788
.565	.4928210	.8258423	.0597619
.566	.4934476	.8252670	.0600456
.567	.4940730	.8246910	.0603300
.568	.4946970	.8241141	.0606152
.569	.4953199	.8235366	.0609010
.570	.4959416	.8229585	.0611876
.571	.4965619	.8223794	.0614749
.572	.4971811	.8217997	.0617630
.573	.4977990	.8212194	.0620516
.574	.4984157	.8206382	.0623412
.575	.4990311	.8200564	.0626313
.576	.4996454	.8194739	.0629222
.577	.5002583	.8188905	.0632139
.578	.5008700	.8183065	.0635062
.579	.5014805	.8177219	.0637992
.580	.5020896	.8171364	.0640930
.581	.5026976	.8165503	.0643874
.582	.5033043	.8159636	.0646826
.583	.5039097	.8153759	.0649785
.584	.5045139	.8147877	.0652751
.585	.5051169	.8141988	.0655724
.586	.5057185	.8136091	.0658704
.587	.5063190	.8130187	.0661692
.588	.5069182	.8124277	.0664686
.589	.5075160	.8118359	.0667687
.590	.5081127	.8112434	.0670696
.591	.5087081	.8106504	.0673711
.592	.5093021	.8100565	.0676734
.593	.5098950	.8094619	.0679764
.594	.5104866	.8088668	.0682800
.595	.5110768	.8082708	.0685845
.596	.5116658	.8076742	.0688895
.597	.5122536	.8070770	.0691953
.598	.5128400	.8064789	.0695018
.599	.5134252	.8058803	.0698090
.600	.5140092	.8052810	.0701169

4187

4187

CB-3

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.601	0.5145918	0.8046809	0.0704255
.602	.5151731	.8040802	.0707348
.603	.5157532	.8034790	.0710447
.604	.5163320	.8028768	.0713555
.605	.5169095	.8022741	.0716668
.606	.5174857	.8016708	.0719789
.607	.5180606	.8010666	.0722917
.608	.5186342	.8004619	.0726051
.609	.5192066	.7998566	.0729192
.610	.5197776	.7992504	.0732342
.611	.5203474	.7986437	.0735497
.612	.5209159	.7980364	.0738659
.613	.5214830	.7974282	.0741828
.614	.5220489	.7968195	.0745005
.615	.5226135	.7962102	.0748187
.616	.5231767	.7956000	.0751378
.617	.5237387	.7949893	.0754574
.618	.5242994	.7943781	.0757777
.619	.5248587	.7937660	.0760988
.620	.5254168	.7931533	.0764206
.621	.5259736	.7925401	.0767429
.622	.5265290	.7919260	.0770661
.623	.5270831	.7913114	.0773899
.624	.5276359	.7906963	.0777143
.625	.5281874	.7900803	.0780395
.626	.5287376	.7894637	.0783653
.627	.5292865	.7888467	.0786917
.628	.5298340	.7882287	.0790190
.629	.5303802	.7876103	.0793468
.630	.5309252	.7869913	.0796753
.631	.5314688	.7863714	.0800045
.632	.5320110	.7857511	.0803344
.633	.5325520	.7851302	.0806649
.634	.5330916	.7845085	.0809962
.635	.5336299	.7838862	.0813280
.636	.5341669	.7832634	.0816605
.637	.5347025	.7826398	.0819938
.638	.5352369	.7820157	.0823277
.639	.5357699	.7813910	.0826622
.640	.5363015	.7807656	.0829975
.641	.5368318	.7801396	.0833334
.642	.5373608	.7795131	.0836699
.643	.5378885	.7788857	.0840071
.644	.5384148	.7782579	.0843450
.645	.5389398	.7776295	.0846835
.646	.5394634	.7770004	.0850228
.647	.5399857	.7763707	.0853626
.648	.5405067	.7757405	.0857031
.649	.5410262	.7751095	.0860443
.650	.5415445	.7744780	.0863861

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.651	0.5420614	0.7738460	0.0867285
.652	.5425770	.7732132	.0870717
.653	.5430912	.7725799	.0874155
.654	.5436041	.7719461	.0877599
.655	.5441156	.7713115	.0881050
.656	.5446257	.7706764	.0884507
.657	.5451346	.7700408	.0887971
.658	.5456420	.7694044	.0891441
.659	.5461481	.7687675	.0894918
.660	.5466529	.7681302	.0898400
.661	.5471562	.7674920	.0901891
.662	.5476583	.7668534	.0905387
.663	.5481590	.7662142	.0908888
.664	.5486582	.7655743	.0912398
.665	.5491562	.7649339	.0915913
.666	.5496528	.7642931	.0919434
.667	.5501480	.7636514	.0922962
.668	.5506418	.7630093	.0926497
.669	.5511343	.7623667	.0930037
.670	.5516254	.7617233	.0933584
.671	.5521152	.7610795	.0937137
.672	.5526036	.7604351	.0940696
.673	.5530905	.7597900	.0944263
.674	.5535761	.7591445	.0947835
.675	.5540604	.7584985	.0951412
.676	.5545432	.7578517	.0954998
.677	.5550247	.7572044	.0958588
.678	.5555049	.7565567	.0962185
.679	.5559836	.7559083	.0965789
.680	.5564610	.7552593	.0969398
.681	.5569370	.7546099	.0973013
.682	.5574115	.7539598	.0976636
.683	.5578847	.7533092	.0980264
.684	.5583566	.7526582	.0983897
.685	.5588270	.7520064	.0987538
.686	.5592960	.7513541	.0991185
.687	.5597638	.7507015	.0994837
.688	.5602300	.7500480	.0998496
.689	.5606949	.7493942	.1002160
.690	.5611584	.7487398	.1005831
.691	.5616205	.7480848	.1009508
.692	.5620812	.7474293	.1013191
.693	.5625405	.7467734	.1016879
.694	.5629984	.7461167	.1020575
.695	.5634549	.7454596	.1024276
.696	.5639101	.7448021	.1027982
.697	.5643638	.7441438	.1031696
.698	.5648161	.7434851	.1035414
.699	.5652671	.7428260	.1039139
.700	.5657165	.7421662	.1042870

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.701	0.5661647	0.7415059	0.1046607
.702	.5666114	.7408452	.1050349
.703	.5670567	.7401838	.1054098
.704	.5675006	.7395220	.1057852
.705	.5679431	.7388597	.1061612
.706	.5683841	.7381968	.1065379
.707	.5688238	.7375334	.1069151
.708	.5692621	.7368696	.1072928
.709	.5696989	.7362052	.1076712
.710	.5701344	.7355402	.1080501
.711	.5705685	.7348749	.1084296
.712	.5710010	.7342089	.1088097
.713	.5714322	.7335425	.1091904
.714	.5718621	.7328757	.1095716
.715	.5722904	.7322082	.1099535
.716	.5727173	.7315402	.1103359
.717	.5731429	.7308719	.1107188
.718	.5735670	.7302029	.1111024
.719	.5739896	.7295335	.1114864
.720	.5744110	.7288637	.1118711
.721	.5748308	.7281932	.1122563
.722	.5752492	.7275223	.1126421
.723	.5756662	.7268511	.1130284
.724	.5760817	.7261791	.1134154
.725	.5764959	.7255068	.1138028
.726	.5769086	.7248340	.1141908
.727	.5773199	.7241607	.1145794
.728	.5777297	.7234869	.1149685
.729	.5781382	.7228127	.1153581
.730	.5785451	.7221379	.1157484
.731	.5789507	.7214627	.1161392
.732	.5793549	.7207871	.1165305
.733	.5797575	.7201108	.1169224
.734	.5801588	.7194342	.1173148
.735	.5805586	.7187572	.1177077
.736	.5809569	.7180796	.1181012
.737	.5813539	.7174016	.1184953
.738	.5817494	.7167232	.1188898
.739	.5821434	.7160442	.1192849
.740	.5825361	.7153648	.1196806
.741	.5829273	.7146850	.1200767
.742	.5833170	.7140046	.1204735
.743	.5837053	.7133238	.1208707
.744	.5840922	.7126427	.1212684
.745	.5844776	.7119610	.1216667
.746	.5848615	.7112788	.1220656
.747	.5852441	.7105964	.1224648
.748	.5856251	.7099133	.1228647
.749	.5860047	.7092298	.1232651
.750	.5863829	.7085460	.1236660

CB-3 back

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.751	0.5867596	0.7078616	0.1240674
.752	.5871348	.7071768	.1244693
.753	.5875087	.7064917	.1248717
.754	.5878810	.7058060	.1252747
.755	.5882519	.7051199	.1256782
.756	.5886214	.7044335	.1260821
.757	.5889894	.7037464	.1264866
.758	.5893559	.7030591	.1268916
.759	.5897211	.7023714	.1272970
.760	.5900846	.7016831	.1277031
.761	.5904468	.7009944	.1281096
.762	.5908076	.7003054	.1285165
.763	.5911668	.6996159	.1289240
.764	.5915245	.6989260	.1293320
.765	.5918809	.6982357	.1297404
.766	.5922357	.6975449	.1301494
.767	.5925891	.6968538	.1305589
.768	.5929411	.6961623	.1309687
.769	.5932916	.6954702	.1313792
.770	.5936406	.6947779	.1317901
.771	.5939882	.6940852	.1322014
.772	.5943342	.6933919	.1326134
.773	.5946788	.6926983	.1330257
.774	.5950220	.6920044	.1334385
.775	.5953636	.6913099	.1338518
.776	.5957038	.6906151	.1342656
.777	.5960426	.6899200	.1346798
.778	.5963798	.6892244	.1350945
.779	.5967155	.6885284	.1355097
.780	.5970499	.6878321	.1359253
.781	.5973827	.6871353	.1363415
.782	.5977141	.6864381	.1367580
.783	.5980440	.6857407	.1371750
.784	.5983724	.6850427	.1375926
.785	.5986993	.6843444	.1380105
.786	.5990248	.6836458	.1384289
.787	.5993487	.6829467	.1388478
.788	.5996712	.6822472	.1392671
.789	.5999923	.6815475	.1396868
.790	.6003118	.6808473	.1401071
.791	.6006299	.6801467	.1405277
.792	.6009465	.6794459	.1409488
.793	.6012615	.6787445	.1413704
.794	.6015752	.6780429	.1417924
.795	.6018874	.6773409	.1422148
.796	.6021979	.6766385	.1426377
.797	.6025071	.6759357	.1430610
.798	.6028148	.6752327	.1434847
.799	.6031210	.6745291	.1439089
.800	.6034257	.6738253	.1443335

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.801	0.6037290	0.6731212	0.1447585
.802	.6040306	.6724166	.1451840
.803	.6043309	.6717118	.1456098
.804	.6046297	.6710066	.1460361
.805	.6049269	.6703010	.1464628
.806	.6052227	.6695950	.1468900
.807	.6055170	.6688889	.1473175
.808	.6058098	.6681822	.1477455
.809	.6061011	.6674752	.1481739
.810	.6063909	.6667680	.1486026
.811	.6066792	.6660603	.1490318
.812	.6069660	.6653523	.1494615
.813	.6072514	.6646441	.1498914
.814	.6075352	.6639354	.1503219
.815	.6078175	.6632265	.1507527
.816	.6080984	.6625173	.1511838
.817	.6083777	.6618076	.1516155
.818	.6086556	.6610976	.1520475
.819	.6089320	.6603875	.1524799
.820	.6092068	.6596768	.1529127
.821	.6094801	.6589659	.1533459
.822	.6097520	.6582548	.1537794
.823	.6100223	.6575431	.1542134
.824	.6102912	.6568313	.1546478
.825	.6105586	.6561192	.1550824
.826	.6108244	.6554066	.1555176
.827	.6110887	.6546939	.1559531
.828	.6113516	.6539809	.1563889
.829	.6116129	.6532674	.1568251
.830	.6118728	.6525537	.1572617
.831	.6121312	.6518398	.1576987
.832	.6123879	.6511254	.1581361
.833	.6126433	.6504108	.1585738
.834	.6128971	.6496960	.1590118
.835	.6131494	.6489807	.1594502
.836	.6134002	.6482652	.1598890
.837	.6136496	.6475495	.1603281
.838	.6138973	.6468333	.1607677
.839	.6141436	.6461170	.1612076
.840	.6143884	.6454004	.1616477
.841	.6146317	.6446834	.1620883
.842	.6148734	.6439662	.1625292
.843	.6151137	.6432488	.1629704
.844	.6153524	.6425309	.1634121
.845	.6155897	.6418129	.1638540
.846	.6158254	.6410947	.1642962
.847	.6160596	.6403760	.1647389
.848	.6162923	.6396571	.1651819
.849	.6165235	.6389380	.1656251
.850	.6167531	.6382185	.1660688

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.851	0.6169813	0.6374989	0.1665127
.852	.6172080	.6367790	.1669569
.853	.6174331	.6360587	.1674016
.854	.6176567	.6353382	.1678465
.855	.6178789	.6346176	.1682917
.856	.6180994	.6338965	.1687373
.857	.6183185	.6331753	.1691832
.858	.6185361	.6324539	.1696294
.859	.6187521	.6317320	.1700759
.860	.6189666	.6310100	.1705227
.861	.6191797	.6302879	.1709698
.862	.6193911	.6295653	.1714173
.863	.6196011	.6288425	.1718650
.864	.6198096	.6281196	.1723130
.865	.6200165	.6273963	.1727614
.866	.6202219	.6266728	.1732100
.867	.6204258	.6259492	.1736589
.868	.6206282	.6252252	.1741082
.869	.6208290	.6245010	.1745577
.870	.6210284	.6237767	.1750075
.871	.6212262	.6230519	.1754577
.872	.6214225	.6223270	.1759080
.873	.6216173	.6216020	.1763587
.874	.6218105	.6208766	.1768097
.875	.6220023	.6201511	.1772609
.876	.6221925	.6194254	.1777123
.877	.6223812	.6186993	.1781642
.878	.6225684	.6179730	.1786162
.879	.6227541	.6172467	.1790685
.880	.6229381	.6165200	.1795212
.881	.6231207	.6157931	.1799740
.882	.6233019	.6150661	.1804271
.883	.6234814	.6143387	.1808805
.884	.6236594	.6136112	.1813342
.885	.6238360	.6128836	.1817880
.886	.6240109	.6121556	.1822422
.887	.6241844	.6114275	.1826967
.888	.6243563	.6106993	.1831513
.889	.6245267	.6099707	.1836062
.890	.6246956	.6092419	.1840614
.891	.6248630	.6085131	.1845168
.892	.6250288	.6077839	.1849725
.893	.6251931	.6070546	.1854283
.894	.6253559	.6063252	.1858844
.895	.6255171	.6055955	.1863408
.896	.6256768	.6048656	.1867974
.897	.6258351	.6041356	.1872542
.898	.6259917	.6034053	.1877113
.899	.6261468	.6026749	.1881686
.900	.6263005	.6019444	.1886261

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.901	0.6264526	0.6012135	0.1890839
.902	.6266031	.6004826	.1895419
.903	.6267522	.5997515	.1900000
.904	.6268997	.5990202	.1904584
.905	.6270456	.5982887	.1909170
.906	.6271902	.5975572	.1913758
.907	.6273330	.5968253	.1918349
.908	.6274744	.5960933	.1922941
.909	.6276143	.5953612	.1927535
.910	.6277526	.5946288	.1932132
.911	.6278894	.5938964	.1936731
.912	.6280247	.5931639	.1941331
.913	.6281584	.5924310	.1945934
.914	.6282907	.5916981	.1950538
.915	.6284214	.5909651	.1955144
.916	.6285505	.5902318	.1959753
.917	.6286781	.5894984	.1964363
.918	.6288043	.5887649	.1968975
.919	.6289288	.5880312	.1973589
.920	.6290518	.5872973	.1978205
.921	.6291734	.5865635	.1982822
.922	.6292933	.5858293	.1987441
.923	.6294118	.5850950	.1992062
.924	.6295287	.5843607	.1996685
.925	.6296441	.5836261	.2001309
.926	.6297579	.5828915	.2005935
.927	.6298703	.5821568	.2010563
.928	.6299810	.5814218	.2015193
.929	.6300903	.5806868	.2019824
.930	.6301981	.5799517	.2024456
.931	.6303042	.5792163	.2029091
.932	.6304089	.5784809	.2033726
.933	.6305121	.5777454	.2038363
.934	.6306137	.5770097	.2043002
.935	.6307137	.5762739	.2047643
.936	.6308124	.5755381	.2052284
.937	.6309093	.5748020	.2056927
.938	.6310048	.5740659	.2061572
.939	.6310988	.5733298	.2066217
.940	.6311912	.5725933	.2070865
.941	.6312821	.5718569	.2075514
.942	.6313715	.5711204	.2080164
.943	.6314593	.5703837	.2084815
.944	.6315456	.5696469	.2089468
.945	.6316304	.5689102	.2094121
.946	.6317136	.5681731	.2098777
.947	.6317953	.5674361	.2103433
.948	.6318755	.5666990	.2108090
.949	.6319541	.5659617	.2112749
.950	.6320312	.5652244	.2117409

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.951	0.6321069	0.5644870	0.2122070
.952	.6321809	.5637495	.2126732
.953	.6322534	.5630119	.2131395
.954	.6323244	.5622743	.2136059
.955	.6323938	.5615365	.2140725
.956	.6324618	.5607986	.2145391
.957	.6325282	.5600608	.2150058
.958	.6325930	.5593227	.2154727
.959	.6326564	.5585847	.2159396
.960	.6327183	.5578466	.2164065
.961	.6327785	.5571083	.2168737
.962	.6328372	.5563700	.2173409
.963	.6328945	.5556318	.2178081
.964	.6329502	.5548933	.2182755
.965	.6330043	.5541548	.2187429
.966	.6330570	.5534164	.2192104
.967	.6331081	.5526777	.2196780
.968	.6331577	.5519390	.2201457
.969	.6332058	.5512004	.2206134
.970	.6332522	.5504615	.2210813
.971	.6332972	.5497227	.2215491
.972	.6333408	.5489839	.2220170
.973	.6333826	.5482449	.2224851
.974	.6334230	.5475060	.2229531
.975	.6334620	.5467670	.2234212
.976	.6334993	.5460279	.2238894
.977	.6335351	.5452888	.2243577
.978	.6335695	.5445497	.2248259
.979	.6336022	.5438105	.2252943
.980	.6336334	.5430712	.2257627
.981	.6336632	.5423321	.2262311
.982	.6336913	.5415927	.2266996
.983	.6337180	.5408534	.2271681
.984	.6337432	.5401141	.2276366
.985	.6337668	.5393746	.2281052
.986	.6337889	.5386352	.2285739
.987	.6338095	.5378959	.2290425
.988	.6338285	.5371563	.2295112
.989	.6338460	.5364169	.2299799
.990	.6338620	.5356774	.2304486
.991	.6338764	.5349378	.2309174
.992	.6338894	.5341983	.2313862
.993	.6339009	.5334589	.2318549
.994	.6339107	.5327192	.2323238
.995	.6339191	.5319796	.2327926
.996	.6339260	.5312402	.2332614
.997	.6339312	.5305005	.2337303
.998	.6339350	.5297609	.2341991
.999	.6339374	.5290214	.2346679
1.000	.6339381	.5282817	.2351368

4187

CB-4

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.001	0.6339373	0.5275421	0.2356057
1.002	.6339351	.5268026	.2360745
1.003	.6339312	.5260629	.2365434
1.004	.6339259	.5253233	.2370122
1.005	.6339191	.5245839	.2374810
1.006	.6339107	.5238442	.2379499
1.007	.6339008	.5231047	.2384187
1.008	.6338895	.5223652	.2388874
1.009	.6338765	.5216256	.2393562
1.010	.6338621	.5208861	.2398250
1.011	.6338462	.5201466	.2402937
1.012	.6338286	.5194071	.2407624
1.013	.6338097	.5186676	.2412311
1.014	.6337892	.5179283	.2416997
1.015	.6337671	.5171888	.2421684
1.016	.6337436	.5164494	.2426370
1.017	.6337186	.5157101	.2431055
1.018	.6336919	.5149707	.2435740
1.019	.6336638	.5142315	.2440425
1.020	.6336343	.5134923	.2445109
1.021	.6336031	.5127530	.2449793
1.022	.6335705	.5120138	.2454477
1.023	.6335364	.5112747	.2459159
1.024	.6335007	.5105355	.2463842
1.025	.6334635	.5097965	.2468524
1.026	.6334249	.5090575	.2473205
1.027	.6333846	.5083185	.2477886
1.028	.6333429	.5075796	.2482566
1.029	.6332998	.5068408	.2487245
1.030	.6332550	.5061019	.2491924
1.031	.6332087	.5053631	.2496602
1.032	.6331610	.5046244	.2501279
1.033	.6331117	.5038857	.2505956
1.034	.6330610	.5031471	.2510632
1.035	.6330087	.5024086	.2515307
1.036	.6329549	.5016701	.2519982
1.037	.6328996	.5009317	.2524656
1.038	.6328429	.5001934	.2529328
1.039	.6327845	.4994550	.2534000
1.040	.6327247	.4987168	.2538672
1.041	.6326634	.4979788	.2543341
1.042	.6326006	.4972406	.2548011
1.043	.6325362	.4965026	.2552679
1.044	.6324705	.4957648	.2557346
1.045	.6324031	.4950269	.2562013
1.046	.6323342	.4942891	.2566678
1.047	.6322640	.4935515	.2571342
1.048	.6321921	.4928138	.2576006
1.049	.6321187	.4920763	.2580668
1.050	.6320440	.4913389	.2585329

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.051	0.6319676	0.4906015	0.2589990
1.052	.6318897	.4898643	.2594648
1.053	.6318104	.4891272	.2599306
1.054	.6317295	.4883900	.2603963
1.055	.6316472	.4876531	.2608618
1.056	.6315634	.4869163	.2613272
1.057	.6314781	.4861794	.2617925
1.058	.6313912	.4854428	.2622577
1.059	.6313030	.4847063	.2627227
1.060	.6312131	.4839697	.2631876
1.061	.6311218	.4832334	.2636524
1.062	.6310291	.4824972	.2641170
1.063	.6309347	.4817610	.2645815
1.064	.6308389	.4810249	.2650459
1.065	.6307417	.4802891	.2655100
1.066	.6306429	.4795532	.2659741
1.067	.6305426	.4788175	.2664381
1.068	.6304409	.4780820	.2669018
1.069	.6303376	.4773465	.2673654
1.070	.6302329	.4766111	.2678289
1.071	.6301267	.4758760	.2682922
1.072	.6300190	.4751408	.2687554
1.073	.6299098	.4744059	.2692184
1.074	.6297992	.4736711	.2696812
1.075	.6296869	.4729364	.2701439
1.076	.6295733	.4722018	.2706064
1.077	.6294582	.4714674	.2710687
1.078	.6293415	.4707331	.2715309
1.079	.6292234	.4699989	.2719929
1.080	.6291039	.4692649	.2724547
1.081	.6289828	.4685310	.2729164
1.082	.6288603	.4677972	.2733779
1.083	.6287363	.4670637	.2738391
1.084	.6286108	.4663302	.2743002
1.085	.6284838	.4655969	.2747612
1.086	.6283554	.4648638	.2752218
1.087	.6282254	.4641307	.2756824
1.088	.6280940	.4633979	.2761428
1.089	.6279612	.4626652	.2766029
1.090	.6278267	.4619326	.2770629
1.091	.6276909	.4612002	.2775227
1.092	.6275537	.4604681	.2779822
1.093	.6274148	.4597360	.2784416
1.094	.6272746	.4590041	.2789007
1.095	.6271329	.4582724	.2793596
1.096	.6269897	.4575407	.2798184
1.097	.6268450	.4568093	.2802769
1.098	.6266990	.4560782	.2807352
1.099	.6265513	.4553470	.2811933
1.100	.6264022	.4546162	.2816512

4187

4187

CB-4 back

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.101	0.6262518	0.4538855	0.2821089
1.102	.6260997	.4531549	.2825664
1.103	.6259463	.4524245	.2830236
1.104	.6257914	.4516944	.2834805
1.105	.6256350	.4509644	.2839373
1.106	.6254771	.4502345	.2843939
1.107	.6253179	.4495050	.2848501
1.108	.6251570	.4487755	.2853063
1.109	.6249948	.4480462	.2857621
1.110	.6248312	.4473172	.2862177
1.111	.6246660	.4465883	.2866731
1.112	.6244994	.4458596	.2871282
1.113	.6243314	.4451312	.2875830
1.114	.6241618	.4444028	.2880377
1.115	.6239908	.4436747	.2884921
1.116	.6238185	.4429469	.2889462
1.117	.6236446	.4422192	.2894001
1.118	.6234692	.4414917	.2898537
1.119	.6232925	.4407645	.2903070
1.120	.6231142	.4400373	.2907602
1.121	.6229346	.4393105	.2912131
1.122	.6227535	.4385839	.2916656
1.123	.6225709	.4378574	.2921180
1.124	.6223869	.4371311	.2925700
1.125	.6222015	.4364052	.2930218
1.126	.6220145	.4356793	.2934733
1.127	.6218262	.4349538	.2939246
1.128	.6216364	.4342285	.2943755
1.129	.6214451	.4335033	.2948263
1.130	.6212525	.4327784	.2952767
1.131	.6210584	.4320538	.2957268
1.132	.6208628	.4313292	.2961767
1.133	.6206658	.4306050	.2966263
1.134	.6204675	.4298811	.2970755
1.135	.6202675	.4291573	.2975246
1.136	.6200662	.4284337	.2979733
1.137	.6198636	.4277105	.2984217
1.138	.6196593	.4269874	.2988698
1.139	.6194538	.4262646	.2993176
1.140	.6192468	.4255421	.2997651
1.141	.6190383	.4248197	.3002124
1.142	.6188284	.4240976	.3006593
1.143	.6186172	.4233758	.3011059
1.144	.6184044	.4226541	.3015523
1.145	.6181902	.4219328	.3019983
1.146	.6179747	.4212118	.3024439
1.147	.6177576	.4204908	.3028894
1.148	.6175392	.4197703	.3033344
1.149	.6173194	.4190500	.3037791
1.150	.6170980	.4183298	.3042236

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.151	0.6168753	0.4176100	0.3046677
1.152	.6166513	.4168905	.3051115
1.153	.6164257	.4161712	.3055550
1.154	.6161988	.4154521	.3059982
1.155	.6159705	.4147334	.3064409
1.156	.6157406	.4140149	.3068835
1.157	.6155094	.4132967	.3073256
1.158	.6152769	.4125787	.3077674
1.159	.6150428	.4118610	.3082089
1.160	.6148074	.4111436	.3086501
1.161	.6145706	.4104265	.3090909
1.162	.6143323	.4097096	.3095314
1.163	.6140927	.4089930	.3099715
1.164	.6138517	.4082768	.3104113
1.165	.6136092	.4075607	.3108508
1.166	.6133653	.4068450	.3112899
1.167	.6131201	.4061296	.3117286
1.168	.6128734	.4054143	.3121670
1.169	.6126254	.4046995	.3126050
1.170	.6123760	.4039849	.3130427
1.171	.6121250	.4032706	.3134800
1.172	.6118728	.4025566	.3139170
1.173	.6116192	.4018430	.3143536
1.174	.6113641	.4011295	.3147898
1.175	.6111077	.4004164	.3152257
1.176	.6108499	.3997036	.3156612
1.177	.6105906	.3989911	.3160964
1.178	.6103301	.3982789	.3165312
1.179	.6100681	.3975670	.3169655
1.180	.6098047	.3968554	.3173996
1.181	.6095399	.3961441	.3178332
1.182	.6092739	.3954332	.3182665
1.183	.6090063	.3947224	.3186994
1.184	.6087373	.3940121	.3191319
1.185	.6084671	.3933021	.3195640
1.186	.6081954	.3925923	.3199958
1.187	.6079223	.3918829	.3204271
1.188	.6076480	.3911739	.3208581
1.189	.6073721	.3904651	.3212887
1.190	.6070950	.3897567	.3217189
1.191	.6068165	.3890486	.3221486
1.192	.6065365	.3883407	.3225781
1.193	.6062552	.3876333	.3230071
1.194	.6059726	.3869262	.3234356
1.195	.6056885	.3862193	.3238639
1.196	.6054031	.3855129	.3242917
1.197	.6051164	.3848068	.3247190
1.198	.6048283	.3841009	.3251461
1.199	.6045388	.3833955	.3255727
1.200	.6042480	.3826904	.3259988

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.201	0.6039558	0.3819856	0.3264246
1.202	.6036622	.3812811	.3268499
1.203	.6033673	.3805771	.3272748
1.204	.6030710	.3798733	.3276994
1.205	.6027733	.3791698	.3281235
1.206	.6024744	.3784669	.3285471
1.207	.6021740	.3777641	.3289704
1.208	.6018724	.3770617	.3293933
1.209	.6015694	.3763598	.3298157
1.210	.6012649	.3756581	.3302377
1.211	.6009592	.3749568	.3306592
1.212	.6006522	.3742559	.3310803
1.213	.6003437	.3735552	.3315011
1.214	.6000340	.3728550	.3319213
1.215	.5997229	.3721552	.3323411
1.216	.5994104	.3714557	.3327605
1.217	.5990966	.3707565	.3331795
1.218	.5987816	.3700578	.3335980
1.219	.5984651	.3693594	.3340161
1.220	.5981473	.3686614	.3344337
1.221	.5978282	.3679638	.3348509
1.222	.5975077	.3672664	.3352676
1.223	.5971859	.3665695	.3356839
1.224	.5968629	.3658731	.3360997
1.225	.5965384	.3651768	.3365152
1.226	.5962126	.3644811	.3369301
1.227	.5958856	.3637857	.3373446
1.228	.5955571	.3630907	.3377586
1.229	.5952274	.3623960	.3381722
1.230	.5948964	.3617019	.3385853
1.231	.5945640	.3610080	.3389980
1.232	.5942303	.3603145	.3394102
1.233	.5938954	.3596215	.3398219
1.234	.5935590	.3589287	.3402332
1.235	.5932214	.3582365	.3406439
1.236	.5928825	.3575446	.3410542
1.237	.5925422	.3568531	.3414641
1.238	.5922006	.3561620	.3418735
1.239	.5918579	.3554713	.3422824
1.240	.5915136	.3547810	.3426909
1.241	.5911682	.3540911	.3430989
1.242	.5908215	.3534016	.3435063
1.243	.5904733	.3527125	.3439134
1.244	.5901240	.3520238	.3443199
1.245	.5897734	.3513356	.3447259
1.246	.5894213	.3506477	.3451315
1.247	.5890681	.3499602	.3455366
1.248	.5887136	.3492732	.3459411
1.249	.5883577	.3485865	.3463453
1.250	.5880006	.3479003	.3467489

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.251	0.5876422	0.3472146	0.3471520
1.252	.5872825	.3465292	.3475546
1.253	.5869215	.3458442	.3479568
1.254	.5865593	.3451597	.3483584
1.255	.5861957	.3444756	.3487596
1.256	.5858308	.3437919	.3491602
1.257	.5854648	.3431087	.3495603
1.258	.5850974	.3424258	.3499600
1.259	.5847287	.3417434	.3503591
1.260	.5843588	.3410615	.3507578
1.261	.5839876	.3403799	.3511559
1.262	.5836151	.3396988	.3515535
1.263	.5832414	.3390182	.3519506
1.264	.5828663	.3383379	.3523473
1.265	.5824901	.3376581	.3527434
1.266	.5821126	.3369788	.3531389
1.267	.5817337	.3362999	.3535340
1.268	.5813537	.3356214	.3539286
1.269	.5809724	.3349434	.3543226
1.270	.5805898	.3342658	.3547162
1.271	.5802059	.3335887	.3551092
1.272	.5798209	.3329120	.3555016
1.273	.5794345	.3322357	.3558936
1.274	.5790469	.3315600	.3562850
1.275	.5786582	.3308847	.3566759
1.276	.5782680	.3302098	.3570663
1.277	.5778767	.3295353	.3574562
1.278	.5774842	.3288614	.3578455
1.279	.5770903	.3281879	.3582343
1.280	.5766953	.3275148	.3586226
1.281	.5762990	.3268423	.3590103
1.282	.5759014	.3261701	.3593976
1.283	.5755027	.3254985	.3597842
1.284	.5751027	.3248273	.3601703
1.285	.5747015	.3241566	.3605560
1.286	.5742990	.3234863	.3609410
1.287	.5738954	.3228166	.3613255
1.288	.5734904	.3221472	.3617095
1.289	.5730843	.3214784	.3620930
1.290	.5726770	.3208101	.3624758
1.291	.5722683	.3201422	.3628582
1.292	.5718585	.3194748	.3632400
1.293	.5714476	.3188079	.3636212
1.294	.5710353	.3181414	.3640019
1.295	.5706219	.3174754	.3643821
1.296	.5702073	.3168100	.3647617
1.297	.5697913	.3161449	.3651407
1.298	.5693743	.3154804	.3655192
1.299	.5689561	.3148164	.3658971
1.300	.5685365	.3141529	.3662745

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.301	0.5681158	0.3134898	0.3666514
1.302	.5676940	.3128273	.3670276
1.303	.5672708	.3121652	.3674034
1.304	.5668466	.3115036	.3677785
1.305	.5664211	.3108426	.3681531
1.306	.5659944	.3101820	.3685271
1.307	.5655665	.3095219	.3689006
1.308	.5651375	.3088624	.3692734
1.309	.5647072	.3082032	.3696458
1.310	.5642758	.3075447	.3700176
1.311	.5638433	.3068866	.3703887
1.312	.5634094	.3062290	.3707594
1.313	.5629744	.3055720	.3711294
1.314	.5625383	.3049155	.3714989
1.315	.5621009	.3042594	.3718678
1.316	.5616624	.3036039	.3722361
1.317	.5612228	.3029489	.3726039
1.318	.5607819	.3022943	.3729711
1.319	.5603399	.3016403	.3733377
1.320	.5598967	.3009869	.3737036
1.321	.5594523	.3003339	.3740691
1.322	.5590068	.2996815	.3744340
1.323	.5585602	.2990296	.3747982
1.324	.5581123	.2983782	.3751619
1.325	.5576633	.2977273	.3755251
1.326	.5572132	.2970770	.3758876
1.327	.5567619	.2964271	.3762495
1.328	.5563094	.2957779	.3766109
1.329	.5558559	.2951291	.3769716
1.330	.5554010	.2944809	.3773318
1.331	.5549451	.2938332	.3776914
1.332	.5544882	.2931860	.3780504
1.333	.5540299	.2925394	.3784088
1.334	.5535706	.2918933	.3787666
1.335	.5531102	.2912477	.3791238
1.336	.5526485	.2906027	.3794805
1.337	.5521858	.2899582	.3798365
1.338	.5517220	.2893143	.3801919
1.339	.5512569	.2886708	.3805468
1.340	.5507908	.2880280	.3809010
1.341	.5503236	.2873857	.3812546
1.342	.5498552	.2867439	.3816077
1.343	.5493857	.2861027	.3819601
1.344	.5489152	.2854620	.3823119
1.345	.5484434	.2848219	.3826631
1.346	.5479705	.2841823	.3830138
1.347	.5474966	.2835433	.3833637
1.348	.5470215	.2829048	.3837132
1.349	.5465453	.2822669	.3840620
1.350	.5460681	.2816296	.3844101

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.351	0.5455896	0.2809927	0.3847578
1.352	.5451101	.2803565	.3851047
1.353	.5446296	.2797208	.3854511
1.354	.5441478	.2790857	.3857968
1.355	.5436650	.2784511	.3861420
1.356	.5431812	.2778172	.3864865
1.357	.5426962	.2771837	.3868304
1.358	.5422101	.2765508	.3871737
1.359	.5417230	.2759186	.3875164
1.360	.5412347	.2752868	.3878585
1.361	.5407454	.2746557	.3881999
1.362	.5402550	.2740251	.3885407
1.363	.5397634	.2733951	.3888810
1.364	.5392709	.2727656	.3892206
1.365	.5387773	.2721368	.3895595
1.366	.5382825	.2715085	.3898979
1.367	.5377867	.2708808	.3902356
1.368	.5372899	.2702537	.3905727
1.369	.5367919	.2696271	.3909092
1.370	.5362929	.2690011	.3912450
1.371	.5357929	.2683758	.3915802
1.372	.5352917	.2677509	.3919149
1.373	.5347896	.2671267	.3922489
1.374	.5342864	.2665031	.3925822
1.375	.5337820	.2658801	.3929149
1.376	.5332767	.2652576	.3932470
1.377	.5327704	.2646358	.3935785
1.378	.5322629	.2640145	.3939093
1.379	.5317544	.2633938	.3942395
1.380	.5312449	.2627738	.3945691
1.381	.5307343	.2621542	.3948981
1.382	.5302227	.2615353	.3952264
1.383	.5297101	.2609171	.3955540
1.384	.5291964	.2602993	.3958811
1.385	.5286817	.2596823	.3962075
1.386	.5281660	.2590658	.3965332
1.387	.5276492	.2584499	.3968584
1.388	.5271314	.2578346	.3971829
1.389	.5266126	.2572199	.3975067
1.390	.5260927	.2566058	.3978300
1.391	.5255719	.2559923	.3981526
1.392	.5250501	.2553795	.3984745
1.393	.5245271	.2547672	.3987958
1.394	.5240032	.2541556	.3991165
1.395	.5234784	.2535446	.3994365
1.396	.5229524	.2529341	.3997559
1.397	.5224255	.2523243	.4000746
1.398	.5218976	.2517152	.4003927
1.399	.5213686	.2511066	.4007102
1.400	.5208387	.2504986	.4010270

4187

4187

CB-5

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.401	0.5203079	0.2498913	0.4013431
1.402	.5197759	.2492846	.4016587
1.403	.5192430	.2486785	.4019735
1.404	.5187092	.2480730	.4022877
1.405	.5181743	.2474682	.4026013
1.406	.5176384	.2468639	.4029143
1.407	.5171016	.2462604	.4032265
1.408	.5165637	.2456573	.4035382
1.409	.5160250	.2450550	.4038492
1.410	.5154853	.2444533	.4041595
1.411	.5149444	.2438522	.4044692
1.412	.5144027	.2432518	.4047782
1.413	.5138601	.2426520	.4050866
1.414	.5133164	.2420528	.4053944
1.415	.5127718	.2414542	.4057014
1.416	.5122263	.2408563	.4060079
1.417	.5116797	.2402590	.4063136
1.418	.5111322	.2396624	.4066188
1.419	.5105839	.2390664	.4069232
1.420	.5100344	.2384710	.4072271
1.421	.5094841	.2378763	.4075302
1.422	.5089329	.2372823	.4078327
1.423	.5083806	.2366888	.4081346
1.424	.5078274	.2360960	.4084358
1.425	.5072734	.2355039	.4087363
1.426	.5067182	.2349123	.4090362
1.427	.5061623	.2343215	.4093354
1.428	.5056055	.2337314	.4096340
1.429	.5050476	.2331418	.4099319
1.430	.5044888	.2325529	.4102292
1.431	.5039292	.2319647	.4105258
1.432	.5033685	.2313770	.4108217
1.433	.5028070	.2307901	.4111170
1.434	.5022446	.2302038	.4114116
1.435	.5016812	.2296182	.4117056
1.436	.5011169	.2290332	.4119989
1.437	.5005518	.2284490	.4122915
1.438	.4999857	.2278653	.4125835
1.439	.4994187	.2272823	.4128748
1.440	.4988509	.2267000	.4131655
1.441	.4982820	.2261183	.4134555
1.442	.4977123	.2255373	.4137448
1.443	.4971418	.2249570	.4140335
1.444	.4965703	.2243773	.4143215
1.445	.4959979	.2237983	.4146088
1.446	.4954247	.2232200	.4148955
1.447	.4948505	.2226423	.4151816
1.448	.4942755	.2220653	.4154669
1.449	.4936997	.2214891	.4157516
1.450	.4931229	.2209134	.4160356

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.451	0.4925452	0.2203384	0.4163190
1.452	.4919667	.2197641	.4166017
1.453	.4913873	.2191905	.4168837
1.454	.4908071	.2186175	.4171651
1.455	.4902260	.2180453	.4174458
1.456	.4896440	.2174737	.4177259
1.457	.4890611	.2169027	.4180052
1.458	.4884775	.2163326	.4182839
1.459	.4878929	.2157630	.4185620
1.460	.4873075	.2151941	.4188394
1.461	.4867213	.2146260	.4191161
1.462	.4861342	.2140584	.4193921
1.463	.4855462	.2134916	.4196675
1.464	.4849575	.2129255	.4199422
1.465	.4843679	.2123600	.4202163
1.466	.4837774	.2117953	.4204897
1.467	.4831862	.2112313	.4207624
1.468	.4825941	.2106679	.4210344
1.469	.4820011	.2101052	.4213058
1.470	.4814074	.2095432	.4215765
1.471	.4808128	.2089819	.4218466
1.472	.4802174	.2084213	.4221159
1.473	.4796212	.2078614	.4223846
1.474	.4790241	.2073022	.4226527
1.475	.4784263	.2067437	.4229201
1.476	.4778277	.2061859	.4231867
1.477	.4772282	.2056287	.4234528
1.478	.4766279	.2050723	.4237182
1.479	.4760269	.2045166	.4239829
1.480	.4754250	.2039616	.4242469
1.481	.4748223	.2034073	.4245103
1.482	.4742189	.2028537	.4247730
1.483	.4736146	.2023008	.4250350
1.484	.4730096	.2017486	.4252964
1.485	.4724038	.2011971	.4255570
1.486	.4717972	.2006463	.4258171
1.487	.4711898	.2000962	.4260764
1.488	.4705817	.1995469	.4263351
1.489	.4699727	.1989982	.4265931
1.490	.4693630	.1984503	.4268505
1.491	.4687526	.1979030	.4271072
1.492	.4681413	.1973565	.4273632
1.493	.4675293	.1968107	.4276185
1.494	.4669166	.1962656	.4278732
1.495	.4663030	.1957212	.4281272
1.496	.4656888	.1951775	.4283806
1.497	.4650738	.1946346	.4286332
1.498	.4644580	.1940924	.4288853
1.499	.4638415	.1935509	.4291366
1.500	.4632243	.1930101	.4293873

4187

4187

CB-5 back

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.501	0.4626062	0.1924700	0.4296373
1.502	.4619875	.1919307	.4298866
1.503	.4613681	.1913921	.4301353
1.504	.4607478	.1908541	.4303833
1.505	.4601268	.1903170	.4306306
1.506	.4595052	.1897805	.4308773
1.507	.4588828	.1892448	.4311233
1.508	.4582597	.1887098	.4313686
1.509	.4576359	.1881755	.4316133
1.510	.4570113	.1876420	.4318573
1.511	.4563860	.1871091	.4321007
1.512	.4557601	.1865771	.4323433
1.513	.4551334	.1860457	.4325853
1.514	.4545060	.1855151	.4328267
1.515	.4538779	.1849852	.4330673
1.516	.4532491	.1844560	.4333073
1.517	.4526196	.1839276	.4335467
1.518	.4519895	.1834000	.4337853
1.519	.4513586	.1828730	.4340234
1.520	.4507270	.1823468	.4342607
1.521	.4500949	.1818213	.4344974
1.522	.4494619	.1812965	.4347334
1.523	.4488283	.1807725	.4349688
1.524	.4481941	.1802493	.4352034
1.525	.4475591	.1797268	.4354375
1.526	.4469235	.1792050	.4356708
1.527	.4462872	.1786840	.4359035
1.528	.4456502	.1781636	.4361356
1.529	.4450126	.1776441	.4363670
1.530	.4443744	.1771253	.4365976
1.531	.4437354	.1766072	.4368277
1.532	.4430958	.1760899	.4370571
1.533	.4424556	.1755734	.4372858
1.534	.4418147	.1750575	.4375139
1.535	.4411732	.1745424	.4377413
1.536	.4405311	.1740281	.4379680
1.537	.4398882	.1735145	.4381941
1.538	.4392447	.1730017	.4384195
1.539	.4386007	.1724896	.4386443
1.540	.4379559	.1719783	.4388684
1.541	.4373106	.1714677	.4390919
1.542	.4366647	.1709579	.4393146
1.543	.4360181	.1704488	.4395368
1.544	.4353709	.1699405	.4397582
1.545	.4347231	.1694330	.4399790
1.546	.4340747	.1689262	.4401992
1.547	.4334256	.1684201	.4404187
1.548	.4327760	.1679149	.4406375
1.549	.4321257	.1674103	.4408557
1.550	.4314749	.1669065	.4410732

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.551	0.4308235	0.1664036	0.4412901
1.552	.4301714	.1659013	.4415063
1.553	.4295188	.1653998	.4417219
1.554	.4288656	.1648991	.4419368
1.555	.4282118	.1643991	.4421511
1.556	.4275574	.1638999	.4423647
1.557	.4269025	.1634015	.4425776
1.558	.4262469	.1629038	.4427899
1.559	.4255907	.1624069	.4430015
1.560	.4249341	.1619108	.4432125
1.561	.4242768	.1614154	.4434229
1.562	.4236190	.1609208	.4436326
1.563	.4229607	.1604270	.4438416
1.564	.4223017	.1599339	.4440500
1.565	.4216422	.1594416	.4442577
1.566	.4209822	.1589501	.4444648
1.567	.4203215	.1584593	.4446712
1.568	.4196604	.1579693	.4448770
1.569	.4189988	.1574801	.4450822
1.570	.4183364	.1569916	.4452867
1.571	.4176737	.1565040	.4454905
1.572	.4170105	.1560171	.4456937
1.573	.4163466	.1555309	.4458963
1.574	.4156822	.1550456	.4460982
1.575	.4150174	.1545610	.4462994
1.576	.4143519	.1540772	.4465001
1.577	.4136860	.1535942	.4467001
1.578	.4130196	.1531120	.4468994
1.579	.4123526	.1526305	.4470981
1.580	.4116851	.1521498	.4472961
1.581	.4110172	.1516699	.4474935
1.582	.4103487	.1511907	.4476903
1.583	.4096797	.1507124	.4478865
1.584	.4090103	.1502349	.4480819
1.585	.4083403	.1497581	.4482768
1.586	.4076698	.1492820	.4484710
1.587	.4069990	.1488069	.4486646
1.588	.4063274	.1483324	.4488575
1.589	.4056555	.1478587	.4490498
1.590	.4049832	.1473859	.4492415
1.591	.4043103	.1469138	.4494325
1.592	.4036369	.1464424	.4496229
1.593	.4029632	.1459720	.4498127
1.594	.4022888	.1455022	.4500018
1.595	.4016141	.1450333	.4501903
1.596	.4009390	.1445651	.4503781
1.597	.4002633	.1440977	.4505654
1.598	.3995872	.1436312	.4507520
1.599	.3989107	.1431654	.4509379
1.600	.3982336	.1427004	.4511233

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.601	0.3975562	0.1422362	0.4513080
1.602	.3968783	.1417728	.4514920
1.603	.3961999	.1413101	.4516755
1.604	.3955212	.1408483	.4518583
1.605	.3948420	.1403873	.4520405
1.606	.3941624	.1399270	.4522221
1.607	.3934823	.1394675	.4524030
1.608	.3928019	.1390089	.4525833
1.609	.3921209	.1385510	.4527631
1.610	.3914396	.1380939	.4529421
1.611	.3907580	.1376376	.4531206
1.612	.3900758	.1371821	.4532984
1.613	.3893933	.1367274	.4534756
1.614	.3887104	.1362736	.4536522
1.615	.3880270	.1358204	.4538282
1.616	.3873432	.1353682	.4540035
1.617	.3866592	.1349167	.4541782
1.618	.3859746	.1344660	.4543524
1.619	.3852897	.1340160	.4545259
1.620	.3846045	.1335670	.4546987
1.621	.3839187	.1331186	.4548710
1.622	.3832327	.1326711	.4550427
1.623	.3825463	.1322244	.4552137
1.624	.3818595	.1317785	.4553841
1.625	.3811723	.1313334	.4555539
1.626	.3804849	.1308891	.4557231
1.627	.3797969	.1304456	.4558917
1.628	.3791087	.1300029	.4560597
1.629	.3784202	.1295611	.4562271
1.630	.3777312	.1291199	.4563938
1.631	.3770419	.1286797	.4565600
1.632	.3763523	.1282402	.4567255
1.633	.3756623	.1278015	.4568905
1.634	.3749720	.1273636	.4570548
1.635	.3742814	.1269266	.4572186
1.636	.3735903	.1264903	.4573817
1.637	.3728990	.1260549	.4575442
1.638	.3722074	.1256202	.4577062
1.639	.3715154	.1251864	.4578675
1.640	.3708231	.1247533	.4580282
1.641	.3701306	.1243212	.4581883
1.642	.3694377	.1238897	.4583479
1.643	.3687444	.1234591	.4585068
1.644	.3680510	.1230293	.4586651
1.645	.3673571	.1226003	.4588229
1.646	.3666630	.1221721	.4589800
1.647	.3659686	.1217448	.4591366
1.648	.3652739	.1213182	.4592925
1.649	.3645789	.1208925	.4594479
1.650	.3638837	.1204676	.4596027

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.651	0.3631881	0.1200434	0.4597569
1.652	.3624922	.1196201	.4599105
1.653	.3617962	.1191976	.4600635
1.654	.3610997	.1187759	.4602159
1.655	.3604030	.1183550	.4603677
1.656	.3597062	.1179350	.4605190
1.657	.3590090	.1175157	.4606697
1.658	.3583115	.1170973	.4608197
1.659	.3576139	.1166797	.4609692
1.660	.3569159	.1162628	.4611181
1.661	.3562177	.1158468	.4612665
1.662	.3555193	.1154317	.4614142
1.663	.3548206	.1150173	.4615614
1.664	.3541216	.1146037	.4617080
1.665	.3534225	.1141910	.4618540
1.666	.3527231	.1137791	.4619994
1.667	.3520235	.1133680	.4621443
1.668	.3513237	.1129577	.4622886
1.669	.3506236	.1125482	.4624323
1.670	.3499233	.1121396	.4625754
1.671	.3492228	.1117318	.4627180
1.672	.3485221	.1113247	.4628600
1.673	.3478212	.1109185	.4630014
1.674	.3471201	.1105132	.4631423
1.675	.3464187	.1101086	.4632826
1.676	.3457172	.1097048	.4634223
1.677	.3450156	.1093019	.4635615
1.678	.3443136	.1088998	.4637001
1.679	.3436115	.1084985	.4638381
1.680	.3429093	.1080981	.4639755
1.681	.3422068	.1076984	.4641125
1.682	.3415041	.1072996	.4642488
1.683	.3408014	.1069016	.4643846
1.684	.3400983	.1065044	.4645198
1.685	.3393952	.1061080	.4646545
1.686	.3386919	.1057125	.4647886
1.687	.3379884	.1053177	.4649221
1.688	.3372848	.1049238	.4650551
1.689	.3365810	.1045307	.4651876
1.690	.3358770	.1041384	.4653195
1.691	.3351729	.1037470	.4654508
1.692	.3344688	.1033564	.4655816
1.693	.3337644	.1029666	.4657118
1.694	.3330599	.1025776	.4658415
1.695	.3323553	.1021894	.4659707
1.696	.3316505	.1018021	.4660993
1.697	.3309456	.1014156	.4662273
1.698	.3302406	.1010299	.4663548
1.699	.3295354	.1006450	.4664818
1.700	.3288302	.1002610	.4666082

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.701	0.3281249	0.0998778	0.4667341
1.702	.3274194	.0994953	.4668594
1.703	.3267138	.0991138	.4669842
1.704	.3260082	.0987330	.4671085
1.705	.3253024	.0983531	.4672322
1.706	.3245965	.0979740	.4673554
1.707	.3238906	.0975957	.4674781
1.708	.3231845	.0972182	.4676002
1.709	.3224783	.0968416	.4677218
1.710	.3217722	.0964658	.4678428
1.711	.3210659	.0960908	.4679634
1.712	.3203595	.0957166	.4680834
1.713	.3196531	.0953433	.4682028
1.714	.3189465	.0949708	.4683218
1.715	.3182400	.0945991	.4684402
1.716	.3175334	.0942282	.4685581
1.717	.3168267	.0938582	.4686755
1.718	.3161199	.0934889	.4687923
1.719	.3154132	.0931206	.4689087
1.720	.3147064	.0927530	.4690245
1.721	.3139995	.0923862	.4691398
1.722	.3132926	.0920203	.4692545
1.723	.3125856	.0916552	.4693688
1.724	.3118787	.0912910	.4694825
1.725	.3111717	.0909275	.4695957
1.726	.3104646	.0905649	.4697085
1.727	.3097576	.0902031	.4698207
1.728	.3090505	.0898421	.4699323
1.729	.3083434	.0894820	.4700435
1.730	.3076363	.0891226	.4701542
1.731	.3069293	.0887642	.4702643
1.732	.3062221	.0884065	.4703740
1.733	.3055150	.0880496	.4704831
1.734	.3048079	.0876936	.4705918
1.735	.3041008	.0873384	.4706999
1.736	.3033937	.0869840	.4708076
1.737	.3026867	.0866305	.4709147
1.738	.3019796	.0862778	.4710213
1.739	.3012726	.0859259	.4711275
1.740	.3005656	.0855748	.4712331
1.741	.2998585	.0852246	.4713383
1.742	.2991516	.0848751	.4714429
1.743	.2984447	.0845265	.4715471
1.744	.2977378	.0841788	.4716508
1.745	.2970310	.0838318	.4717539
1.746	.2963242	.0834857	.4718566
1.747	.2956175	.0831404	.4719588
1.748	.2949108	.0827959	.4720605
1.749	.2942042	.0824523	.4721618
1.750	.2934976	.0821094	.4722625

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.751	0.2927911	0.0817674	0.4723628
1.752	.2920847	.0814263	.4724625
1.753	.2913783	.0810859	.4725618
1.754	.2906720	.0807464	.4726606
1.755	.2899658	.0804077	.4727590
1.756	.2892596	.0800698	.4728568
1.757	.2885536	.0797327	.4729542
1.758	.2878477	.0793965	.4730511
1.759	.2871418	.0790611	.4731475
1.760	.2864360	.0787265	.4732435
1.761	.2857304	.0783928	.4733390
1.762	.2850248	.0780598	.4734340
1.763	.2843193	.0777277	.4735285
1.764	.2836140	.0773964	.4736226
1.765	.2829087	.0770659	.4737162
1.766	.2822036	.0767363	.4738094
1.767	.2814987	.0764075	.4739020
1.768	.2807938	.0760794	.4739942
1.769	.2800890	.0757523	.4740860
1.770	.2793845	.0754259	.4741773
1.771	.2786799	.0751004	.4742681
1.772	.2779756	.0747756	.4743585
1.773	.2772715	.0744518	.4744484
1.774	.2765674	.0741287	.4745379
1.775	.2758635	.0738064	.4746269
1.776	.2751598	.0734850	.4747155
1.777	.2744561	.0731644	.4748036
1.778	.2737527	.0728446	.4748912
1.779	.2730495	.0725256	.4749784
1.780	.2723463	.0722075	.4750652
1.781	.2716434	.0718902	.4751515
1.782	.2709407	.0715737	.4752374
1.783	.2702381	.0712580	.4753228
1.784	.2695357	.0709431	.4754078
1.785	.2688336	.0706291	.4754923
1.786	.2681315	.0703158	.4755764
1.787	.2674297	.0700034	.4756601
1.788	.2667281	.0696918	.4757433
1.789	.2660267	.0693810	.4758261
1.790	.2653255	.0690711	.4759084
1.791	.2646245	.0687620	.4759903
1.792	.2639236	.0684536	.4760718
1.793	.2632231	.0681461	.4761529
1.794	.2625228	.0678394	.4762335
1.795	.2618226	.0675336	.4763137
1.796	.2611227	.0672285	.4763934
1.797	.2604230	.0669243	.4764728
1.798	.2597235	.0666209	.4765517
1.799	.2590243	.0663183	.4766302
1.800	.2583254	.0660165	.4767082

4187

4187

CB-6

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.801	0.2576266	0.0657155	0.4767859
1.802	.2569281	.0654153	.4768631
1.803	.2562299	.0651160	.4769399
1.804	.2555319	.0648175	.4770163
1.805	.2548342	.0645198	.4770923
1.806	.2541368	.0642229	.4771678
1.807	.2534396	.0639268	.4772430
1.808	.2527426	.0636315	.4773177
1.809	.2520461	.0633371	.4773920
1.810	.2513496	.0630434	.4774659
1.811	.2506535	.0627506	.4775394
1.812	.2499578	.0624585	.4776125
1.813	.2492622	.0621673	.4776852
1.814	.2485670	.0618769	.4777575
1.815	.2478721	.0615873	.4778294
1.816	.2471775	.0612986	.4779008
1.817	.2464831	.0610106	.4779719
1.818	.2457892	.0607234	.4780426
1.819	.2450954	.0604371	.4781129
1.820	.2444020	.0601515	.4781828
1.821	.2437090	.0598668	.4782523
1.822	.2430162	.0595829	.4783214
1.823	.2423237	.0592998	.4783901
1.824	.2416317	.0590175	.4784584
1.825	.2409398	.0587360	.4785263
1.826	.2402484	.0584553	.4785938
1.827	.2395574	.0581754	.4786610
1.828	.2388666	.0578963	.4787277
1.829	.2381761	.0576180	.4787941
1.830	.2374861	.0573406	.4788601
1.831	.2367964	.0570639	.4789257
1.832	.2361070	.0567880	.4789910
1.833	.2354181	.0565130	.4790558
1.834	.2347294	.0562387	.4791203
1.835	.2340412	.0559653	.4791844
1.836	.2333533	.0556926	.4792481
1.837	.2326658	.0554208	.4793114
1.838	.2319786	.0551497	.4793744
1.839	.2312919	.0548795	.4794370
1.840	.2306055	.0546101	.4794992
1.841	.2299196	.0543414	.4795611
1.842	.2292340	.0540736	.4796226
1.843	.2285488	.0538065	.4796837
1.844	.2278640	.0535403	.4797444
1.845	.2271797	.0532749	.4798048
1.846	.2264957	.0530102	.4798649
1.847	.2258121	.0527464	.4799245
1.848	.2251290	.0524833	.4799838
1.849	.2244463	.0522211	.4800428
1.850	.2237640	.0519596	.4801014

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.851	0.2230822	0.0516990	0.4801596
1.852	.2224007	.0514391	.4802175
1.853	.2217197	.0511800	.4802750
1.854	.2210392	.0509218	.4803322
1.855	.2203590	.0506643	.4803890
1.856	.2196793	.0504076	.4804455
1.857	.2190001	.0501517	.4805016
1.858	.2183213	.0498966	.4805574
1.859	.2176430	.0496423	.4806129
1.860	.2169652	.0493887	.4806679
1.861	.2162878	.0491360	.4807227
1.862	.2156108	.0488841	.4807771
1.863	.2149344	.0486329	.4808312
1.864	.2142584	.0483825	.4808849
1.865	.2135829	.0481330	.4809383
1.866	.2129079	.0478842	.4809913
1.867	.2122333	.0476362	.4810441
1.868	.2115593	.0473890	.4810964
1.869	.2108858	.0471426	.4811485
1.870	.2102127	.0468969	.4812002
1.871	.2095401	.0466521	.4812516
1.872	.2088681	.0464080	.4813027
1.873	.2081965	.0461647	.4813534
1.874	.2075255	.0459222	.4814038
1.875	.2068550	.0456805	.4814539
1.876	.2061850	.0454395	.4815036
1.877	.2055155	.0451994	.4815531
1.878	.2048466	.0449600	.4816022
1.879	.2041781	.0447214	.4816510
1.880	.2035102	.0444836	.4816995
1.881	.2028429	.0442465	.4817476
1.882	.2021760	.0440103	.4817955
1.883	.2015098	.0437748	.4818430
1.884	.2008441	.0435401	.4818902
1.885	.2001789	.0433062	.4819371
1.886	.1995142	.0430730	.4819837
1.887	.1988502	.0428406	.4820300
1.888	.1981867	.0426090	.4820760
1.889	.1975238	.0423782	.4821217
1.890	.1968614	.0421481	.4821670
1.891	.1961996	.0419188	.4822121
1.892	.1955384	.0416903	.4822569
1.893	.1948778	.0414626	.4823013
1.894	.1942177	.0412356	.4823455
1.895	.1935583	.0410094	.4823893
1.896	.1928994	.0407840	.4824329
1.897	.1922411	.0405593	.4824762
1.898	.1915835	.0403354	.4825191
1.899	.1909264	.0401123	.4825618
1.900	.1902699	.0398899	.4826042

4187

4187

CB-6 back

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.901	0.1896141	0.0396683	0.4826463
1.902	.1889589	.0394475	.4826881
1.903	.1883042	.0392274	.4827296
1.904	.1876502	.0390081	.4827708
1.905	.1869969	.0387896	.4828117
1.906	.1863441	.0385718	.4828524
1.907	.1856919	.0383548	.4828928
1.908	.1850405	.0381385	.4829329
1.909	.1843896	.0379230	.4829727
1.910	.1837394	.0377083	.4830122
1.911	.1830899	.0374943	.4830514
1.912	.1824409	.0372810	.4830904
1.913	.1817927	.0370686	.4831291
1.914	.1811451	.0368569	.4831675
1.915	.1804981	.0366459	.4832057
1.916	.1798519	.0364357	.4832435
1.917	.1792063	.0362263	.4832811
1.918	.1785613	.0360176	.4833185
1.919	.1779170	.0358096	.4833555
1.920	.1772735	.0356024	.4833923
1.921	.1766306	.0353960	.4834289
1.922	.1759883	.0351903	.4834651
1.923	.1753468	.0349853	.4835011
1.924	.1747060	.0347811	.4835369
1.925	.1740658	.0345777	.4835723
1.926	.1734264	.0343750	.4836076
1.927	.1727877	.0341730	.4836425
1.928	.1721496	.0339718	.4836772
1.929	.1715123	.0337713	.4837117
1.930	.1708757	.0335716	.4837459
1.931	.1702398	.0333726	.4837798
1.932	.1696047	.0331744	.4838135
1.933	.1689702	.0329769	.4838469
1.934	.1683365	.0327801	.4838801
1.935	.1677036	.0325841	.4839130
1.936	.1670713	.0323888	.4839457
1.937	.1664398	.0321943	.4839782
1.938	.1658091	.0320005	.4840103
1.939	.1651790	.0318074	.4840423
1.940	.1645498	.0316150	.4840740
1.941	.1639213	.0314234	.4841055
1.942	.1632935	.0312326	.4841367
1.943	.1626665	.0310424	.4841677
1.944	.1620403	.0308530	.4841984
1.945	.1614148	.0306643	.4842290
1.946	.1607901	.0304764	.4842592
1.947	.1601663	.0302891	.4842893
1.948	.1595431	.0301026	.4843191
1.949	.1589207	.0299169	.4843487
1.950	.1582992	.0297318	.4843780

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.951	0.1576784	0.0295475	0.4844071
1.952	.1570584	.0293639	.4844360
1.953	.1564392	.0291810	.4844647
1.954	.1558208	.0289989	.4844931
1.955	.1552032	.0288175	.4845213
1.956	.1545865	.0286368	.4845493
1.957	.1539705	.0284568	.4845771
1.958	.1533553	.0282775	.4846047
1.959	.1527410	.0280989	.4846320
1.960	.1521275	.0279211	.4846591
1.961	.1515148	.0277440	.4846860
1.962	.1509029	.0275676	.4847127
1.963	.1502919	.0273919	.4847391
1.964	.1496817	.0272169	.4847654
1.965	.1490724	.0270426	.4847914
1.966	.1484638	.0268690	.4848172
1.967	.1478562	.0266962	.4848428
1.968	.1472494	.0265240	.4848682
1.969	.1466434	.0263526	.4848934
1.970	.1460383	.0261819	.4849184
1.971	.1454340	.0260118	.4849432
1.972	.1448306	.0258425	.4849678
1.973	.1442281	.0256739	.4849921
1.974	.1436265	.0255060	.4850163
1.975	.1430256	.0253388	.4850403
1.976	.1424258	.0251723	.4850640
1.977	.1418268	.0250065	.4850876
1.978	.1412286	.0248413	.4851110
1.979	.1406313	.0246769	.4851341
1.980	.1400350	.0245132	.4851571
1.981	.1394395	.0243502	.4851799
1.982	.1388449	.0241878	.4852025
1.983	.1382513	.0240262	.4852249
1.984	.1376585	.0238652	.4852471
1.985	.1370666	.0237050	.4852691
1.986	.1364757	.0235454	.4852909
1.987	.1358857	.0233865	.4853125
1.988	.1352965	.0232284	.4853340
1.989	.1347084	.0230709	.4853553
1.990	.1341211	.0229140	.4853763
1.991	.1335347	.0227579	.4853972
1.992	.1329494	.0226025	.4854179
1.993	.1323649	.0224477	.4854385
1.994	.1317813	.0222936	.4854588
1.995	.1311988	.0221402	.4854790
1.996	.1306171	.0219875	.4854990
1.997	.1300364	.0218354	.4855188
1.998	.1294567	.0216841	.4855384
1.999	.1288779	.0215334	.4855579
2.000	.1283000	.0213833	.4855772

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.001	0.1277232	0.0212340	0.4855963
2.002	.1271473	.0210853	.4856153
2.003	.1265723	.0209373	.4856341
2.004	.1259984	.0207900	.4856527
2.005	.1254254	.0206433	.4856711
2.006	.1248534	.0204973	.4856894
2.007	.1242824	.0203520	.4857075
2.008	.1237123	.0202073	.4857254
2.009	.1231433	.0200633	.4857432
2.010	.1225752	.0199200	.4857608
2.011	.1220081	.0197773	.4857782
2.012	.1214421	.0196353	.4857955
2.013	.1208771	.0194940	.4858126
2.014	.1203130	.0193533	.4858296
2.015	.1197499	.0192132	.4858464
2.016	.1191879	.0190739	.4858631
2.017	.1186269	.0189351	.4858796
2.018	.1180669	.0187970	.4858959
2.019	.1175079	.0186596	.4859121
2.020	.1169499	.0185229	.4859281
2.021	.1163930	.0183867	.4859440
2.022	.1158372	.0182513	.4859597
2.023	.1152823	.0181165	.4859753
2.024	.1147285	.0179823	.4859908
2.025	.1141757	.0178488	.4860060
2.026	.1136239	.0177159	.4860212
2.027	.1130733	.0175836	.4860362
2.028	.1125237	.0174520	.4860510
2.029	.1119751	.0173211	.4860657
2.030	.1114276	.0171908	.4860803
2.031	.1108811	.0170611	.4860947
2.032	.1103357	.0169320	.4861089
2.033	.1097914	.0168036	.4861231
2.034	.1092481	.0166759	.4861371
2.035	.1087059	.0165487	.4861509
2.036	.1081648	.0164222	.4861646
2.037	.1076248	.0162963	.4861782
2.038	.1070859	.0161711	.4861917
2.039	.1065480	.0160465	.4862050
2.040	.1060113	.0159225	.4862182
2.041	.1054756	.0157991	.4862312
2.042	.1049410	.0156764	.4862441
2.043	.1044076	.0155542	.4862569
2.044	.1038752	.0154327	.4862696
2.045	.1033439	.0153119	.4862821
2.046	.1028138	.0151916	.4862945
2.047	.1022847	.0150720	.4863067
2.048	.1017568	.0149529	.4863189
2.049	.1012300	.0148345	.4863309
2.050	.1007043	.0147167	.4863428

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.051	0.1001797	0.0145996	0.4863546
2.052	.0996563	.0144830	.4863662
2.053	.0991339	.0143670	.4863777
2.054	.0986128	.0142517	.4863892
2.055	.0980928	.0141369	.4864004
2.056	.0975738	.0140228	.4864116
2.057	.0970561	.0139093	.4864227
2.058	.0965395	.0137963	.4864336
2.059	.0960240	.0136840	.4864444
2.060	.0955097	.0135723	.4864551
2.061	.0949966	.0134611	.4864657
2.062	.0944846	.0133506	.4864762
2.063	.0939737	.0132407	.4864865
2.064	.0934641	.0131313	.4864968
2.065	.0929556	.0130226	.4865069
2.066	.0924482	.0129144	.4865169
2.067	.0919421	.0128069	.4865269
2.068	.0914371	.0126999	.4865367
2.069	.0909333	.0125935	.4865464
2.070	.0904307	.0124877	.4865560
2.071	.0899292	.0123825	.4865654
2.072	.0894290	.0122779	.4865748
2.073	.0889299	.0121739	.4865841
2.074	.0884321	.0120704	.4865933
2.075	.0879354	.0119675	.4866024
2.076	.0874399	.0118652	.4866113
2.077	.0869457	.0117635	.4866202
2.078	.0864526	.0116623	.4866290
2.079	.0859608	.0115618	.4866376
2.080	.0854701	.0114618	.4866462
2.081	.0849807	.0113623	.4866547
2.082	.0844925	.0112635	.4866631
2.083	.0840055	.0111652	.4866713
2.084	.0835197	.0110675	.4866795
2.085	.0830352	.0109703	.4866876
2.086	.0825519	.0108737	.4866956
2.087	.0820698	.0107777	.4867035
2.088	.0815890	.0106822	.4867113
2.089	.0811094	.0105873	.4867190
2.090	.0806310	.0104930	.4867267
2.091	.0801539	.0103992	.4867342
2.092	.0796780	.0103059	.4867417
2.093	.0792033	.0102133	.4867490
2.094	.0787300	.0101211	.4867563
2.095	.0782578	.0100295	.4867635
2.096	.0777870	.0099385	.4867706
2.097	.0773174	.0098480	.4867776
2.098	.0768490	.0097581	.4867845
2.099	.0763819	.0096687	.4867914
2.100	.0759161	.0095799	.4867981

4187

4187

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.101	0.0754515	0.0094916	0.4868048
2.102	.0749883	.0094038	.4868114
2.103	.0745263	.0093166	.4868179
2.104	.0740656	.0092299	.4868244
2.105	.0736061	.0091438	.4868307
2.106	.0731480	.0090582	.4868370
2.107	.0726911	.0089731	.4868432
2.108	.0722355	.0088886	.4868494
2.109	.0717812	.0088046	.4868554
2.110	.0713282	.0087211	.4868614
2.111	.0708765	.0086381	.4868673
2.112	.0704262	.0085557	.4868731
2.113	.0699770	.0084738	.4868788
2.114	.0695292	.0083924	.4868845
2.115	.0690828	.0083116	.4868901
2.116	.0686376	.0082312	.4868957
2.117	.0681937	.0081514	.4869011
2.118	.0677512	.0080721	.4869065
2.119	.0673100	.0079933	.4869118
2.120	.0668700	.0079151	.4869171
2.121	.0664315	.0078373	.4869223
2.122	.0659942	.0077601	.4869274
2.123	.0655583	.0076833	.4869324
2.124	.0651237	.0076071	.4869374
2.125	.0646904	.0075314	.4869423
2.126	.0642585	.0074561	.4869472
2.127	.0638279	.0073814	.4869520
2.128	.0633986	.0073072	.4869567
2.129	.0629707	.0072335	.4869613
2.130	.0625441	.0071603	.4869659
2.131	.0621189	.0070876	.4869705
2.132	.0616950	.0070153	.4869749
2.133	.0612725	.0069436	.4869793
2.134	.0608513	.0068724	.4869837
2.135	.0604315	.0068016	.4869880
2.136	.0600131	.0067314	.4869922
2.137	.0595959	.0066616	.4869964
2.138	.0591802	.0065923	.4870005
2.139	.0587659	.0065235	.4870045
2.140	.0583529	.0064552	.4870085
2.141	.0579412	.0063873	.4870125
2.142	.0575310	.0063200	.4870164
2.143	.0571221	.0062531	.4870202
2.144	.0567146	.0061867	.4870240
2.145	.0563085	.0061208	.4870277
2.146	.0559038	.0060553	.4870314
2.147	.0555004	.0059903	.4870350
2.148	.0550985	.0059258	.4870386
2.149	.0546979	.0058618	.4870421
2.150	.0542987	.0057982	.4870456

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.151	0.0539009	0.0057351	0.4870490
2.152	.0535045	.0056724	.4870523
2.153	.0531095	.0056102	.4870557
2.154	.0527159	.0055485	.4870589
2.155	.0523237	.0054872	.4870621
2.156	.0519329	.0054264	.4870653
2.157	.0515435	.0053660	.4870684
2.158	.0511555	.0053061	.4870715
2.159	.0507689	.0052467	.4870745
2.160	.0503838	.0051877	.4870775
2.161	.0500000	.0051291	.4870805
2.162	.0496177	.0050710	.4870834
2.163	.0492368	.0050133	.4870862
2.164	.0488573	.0049561	.4870890
2.165	.0484792	.0048993	.4870918
2.166	.0481026	.0048430	.4870945
2.167	.0477273	.0047871	.4870972
2.168	.0473535	.0047316	.4870998
2.169	.0469812	.0046766	.4871024
2.170	.0466102	.0046220	.4871050
2.171	.0462407	.0045678	.4871075
2.172	.0458727	.0045141	.4871099
2.173	.0455060	.0044608	.4871124
2.174	.0451408	.0044079	.4871148
2.175	.0447771	.0043555	.4871171
2.176	.0444148	.0043034	.4871195
2.177	.0440539	.0042518	.4871217
2.178	.0436945	.0042007	.4871240
2.179	.0433365	.0041499	.4871262
2.180	.0429800	.0040995	.4871284
2.181	.0426250	.0040496	.4871305
2.182	.0422713	.0040001	.4871326
2.183	.0419192	.0039510	.4871347
2.184	.0415685	.0039023	.4871367
2.185	.0412192	.0038540	.4871387
2.186	.0408715	.0038061	.4871407
2.187	.0405252	.0037586	.4871426
2.188	.0401803	.0037115	.4871445
2.189	.0398369	.0036648	.4871464
2.190	.0394950	.0036186	.4871482
2.191	.0391545	.0035727	.4871500
2.192	.0388155	.0035272	.4871518
2.193	.0384780	.0034821	.4871535
2.194	.0381420	.0034374	.4871552
2.195	.0378074	.0033931	.4871569
2.196	.0374743	.0033492	.4871586
2.197	.0371427	.0033057	.4871602
2.198	.0368126	.0032625	.4871618
2.199	.0364839	.0032198	.4871634
2.200	.0361567	.0031774	.4871649

4187

4187

CB-7

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.201	0.0358311	0.0031354	0.4871664
2.202	.0355069	.0030938	.4871679
2.203	.0351841	.0030526	.4871694
2.204	.0348629	.0030117	.4871708
2.205	.0345432	.0029712	.4871722
2.206	.0342249	.0029311	.4871736
2.207	.0339082	.0028914	.4871749
2.208	.0335929	.0028520	.4871762
2.209	.0332791	.0028130	.4871775
2.210	.0329668	.0027743	.4871788
2.211	.0326561	.0027361	.4871801
2.212	.0323468	.0026981	.4871813
2.213	.0320390	.0026606	.4871825
2.214	.0317327	.0026234	.4871837
2.215	.0314279	.0025865	.4871849
2.216	.0311246	.0025500	.4871860
2.217	.0308229	.0025139	.4871871
2.218	.0305226	.0024781	.4871882
2.219	.0302238	.0024427	.4871893
2.220	.0299265	.0024076	.4871904
2.221	.0296308	.0023729	.4871914
2.222	.0293365	.0023385	.4871924
2.223	.0290438	.0023044	.4871934
2.224	.0287526	.0022707	.4871944
2.225	.0284629	.0022373	.4871953
2.226	.0281747	.0022043	.4871963
2.227	.0278880	.0021716	.4871972
2.228	.0276028	.0021392	.4871981
2.229	.0273191	.0021072	.4871990
2.230	.0270370	.0020755	.4871998
2.231	.0267564	.0020441	.4872007
2.232	.0264773	.0020130	.4872015
2.233	.0261997	.0019823	.4872023
2.234	.0259236	.0019519	.4872031
2.235	.0256491	.0019218	.4872039
2.236	.0253760	.0018920	.4872046
2.237	.0251045	.0018626	.4872054
2.238	.0248345	.0018335	.4872061
2.239	.0245661	.0018047	.4872068
2.240	.0242991	.0017761	.4872075
2.241	.0240337	.0017480	.4872082
2.242	.0237698	.0017201	.4872089
2.243	.0235074	.0016925	.4872095
2.244	.0232466	.0016652	.4872102
2.245	.0229873	.0016382	.4872108
2.246	.0227295	.0016116	.4872114
2.247	.0224733	.0015852	.4872120
2.248	.0222185	.0015591	.4872126
2.249	.0219653	.0015334	.4872131
2.250	.0217136	.0015079	.4872137

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.251	0.0214635	0.0014827	0.4872142
2.252	.0212149	.0014578	.4872148
2.253	.0209678	.0014332	.4872153
2.254	.0207222	.0014089	.4872158
2.255	.0204782	.0013848	.4872163
2.256	.0202357	.0013611	.4872168
2.257	.0199947	.0013376	.4872172
2.258	.0197553	.0013144	.4872177
2.259	.0195174	.0012915	.4872182
2.260	.0192810	.0012689	.4872186
2.261	.0190461	.0012465	.4872190
2.262	.0188128	.0012245	.4872194
2.263	.0185810	.0012026	.4872199
2.264	.0183508	.0011811	.4872203
2.265	.0181221	.0011598	.4872206
2.266	.0178949	.0011388	.4872210
2.267	.0176692	.0011181	.4872214
2.268	.0174451	.0010976	.4872218
2.269	.0172224	.0010774	.4872221
2.270	.0170014	.0010574	.4872224
2.271	.0167818	.0010377	.4872228
2.272	.0165638	.0010182	.4872231
2.273	.0163473	.0009990	.4872234
2.274	.0161324	.0009801	.4872237
2.275	.0159190	.0009614	.4872240
2.276	.0157071	.0009430	.4872243
2.277	.0154967	.0009248	.4872246
2.278	.0152879	.0009068	.4872249
2.279	.0150806	.0008891	.4872251
2.280	.0148748	.0008716	.4872254
2.281	.0146705	.0008544	.4872257
2.282	.0144678	.0008374	.4872259
2.283	.0142666	.0008206	.4872261
2.284	.0140669	.0008041	.4872264
2.285	.0138688	.0007878	.4872266
2.286	.0136721	.0007717	.4872268
2.287	.0134770	.0007559	.4872270
2.288	.0132834	.0007403	.4872272
2.289	.0130914	.0007249	.4872274
2.290	.0129008	.0007097	.4872276
2.291	.0127118	.0006948	.4872278
2.292	.0125243	.0006801	.4872280
2.293	.0123383	.0006656	.4872282
2.294	.0121539	.0006513	.4872284
2.295	.0119709	.0006372	.4872285
2.296	.0117895	.0006233	.4872287
2.297	.0116096	.0006097	.4872289
2.298	.0114312	.0005963	.4872290
2.299	.0112542	.0005830	.4872292
2.300	.0110789	.0005700	.4872293

4187

4187

CB-7 back

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.301	0.0109050	0.0005572	0.4872295
2.302	.0107326	.0005446	.4872296
2.303	.0105618	.0005321	.4872297
2.304	.0103924	.0005199	.4872299
2.305	.0102246	.0005079	.4872300
2.306	.0100582	.0004961	.4872301
2.307	.0098934	.0004844	.4872302
2.308	.0097300	.0004730	.4872303
2.309	.0095682	.0004617	.4872304
2.310	.0094079	.0004506	.4872305
2.311	.0092490	.0004398	.4872306
2.312	.0090916	.0004291	.4872307
2.313	.0089358	.0004185	.4872308
2.314	.0087814	.0004082	.4872309
2.315	.0086285	.0003981	.4872310
2.316	.0084771	.0003881	.4872311
2.317	.0083272	.0003783	.4872312
2.318	.0081788	.0003686	.4872313
2.319	.0080319	.0003592	.4872313
2.320	.0078864	.0003499	.4872314
2.321	.0077424	.0003408	.4872315
2.322	.0075999	.0003318	.4872316
2.323	.0074588	.0003231	.4872316
2.324	.0073193	.0003144	.4872317
2.325	.0071812	.0003060	.4872317
2.326	.0070445	.0002977	.4872318
2.327	.0069094	.0002895	.4872319
2.328	.0067757	.0002816	.4872319
2.329	.0066434	.0002737	.4872320
2.330	.0065127	.0002660	.4872320
2.331	.0063833	.0002585	.4872321
2.332	.0062554	.0002512	.4872321
2.333	.0061290	.0002439	.4872322
2.334	.0060040	.0002369	.4872322
2.335	.0058805	.0002299	.4872322
2.336	.0057584	.0002231	.4872323
2.337	.0056377	.0002165	.4872323
2.338	.0055185	.0002100	.4872324
2.339	.0054007	.0002036	.4872324
2.340	.0052844	.0001974	.4872324
2.341	.0051694	.0001913	.4872324
2.342	.0050559	.0001853	.4872325
2.343	.0049439	.0001795	.4872325
2.344	.0048332	.0001738	.4872325
2.345	.0047239	.0001682	.4872326
2.346	.0046161	.0001628	.4872326
2.347	.0045097	.0001574	.4872326
2.348	.0044046	.0001522	.4872326
2.349	.0043010	.0001472	.4872327
2.350	.0041988	.0001422	.4872327

TABLE I. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.351	0.0040979	0.0001374	0.4872327
2.352	.0039985	.0001326	.4872327
2.353	.0039004	.0001280	.4872327
2.354	.0038037	.0001235	.4872328
2.355	.0037085	.0001191	.4872328
2.356	.0036145	.0001149	.4872328
2.357	.0035220	.0001107	.4872328
2.358	.0034308	.0001067	.4872328
2.359	.0033409	.0001027	.4872328
2.360	.0032525	.0000989	.4872328
2.361	.0031654	.0000951	.4872328
2.362	.0030796	.0000915	.4872329
2.363	.0029952	.0000879	.4872329
2.364	.0029121	.0000845	.4872329
2.365	.0028303	.0000811	.4872329
2.366	.0027499	.0000779	.4872329
2.367	.0026708	.0000747	.4872329
2.368	.0025931	.0000716	.4872329
2.369	.0025166	.0000687	.4872329
2.370	.0024415	.0000658	.4872329
2.371	.0023676	.0000630	.4872329
2.372	.0022951	.0000603	.4872330
2.373	.0022239	.0000576	.4872330
2.374	.0021539	.0000551	.4872330
2.375	.0020852	.0000526	.4872330
2.376	.0020178	.0000502	.4872330
2.377	.0019517	.0000479	.4872330
2.378	.0018869	.0000456	.4872330
2.379	.0018233	.0000435	.4872330
2.380	.0017610	.0000414	.4872330
2.381	.0016999	.0000394	.4872330
2.382	.0016401	.0000374	.4872330
2.383	.0015815	.0000355	.4872330
2.384	.0015241	.0000337	.4872330
2.385	.0014680	.0000320	.4872330
2.386	.0014130	.0000303	.4872330
2.387	.0013593	.0000287	.4872330
2.388	.0013068	.0000271	.4872330
2.389	.0012555	.0000256	.4872330
2.390	.0012054	.0000242	.4872330
2.391	.0011564	.0000228	.4872330
2.392	.0011087	.0000215	.4872330
2.393	.0010621	.0000202	.4872330
2.394	.0010167	.0000190	.4872330
2.395	.0009724	.0000179	.4872330
2.396	.0009292	.0000168	.4872330
2.397	.0008872	.0000157	.4872330
2.398	.0008464	.0000147	.4872330
2.399	.0008066	.0000137	.4872330
2.400	.0007680	.0000128	.4872330

4187

4187

TABLE I. - Concluded. MASS-FLOW PARAMETERS FOR $\gamma = 1.4$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.401	0.0007305	0.0000119	0.4872330
2.402	.0006940	.0000111	.4872330
2.403	.0006587	.0000103	.4872330
2.404	.0006244	.0000096	.4872330
2.405	.0005912	.0000088	.4872330
2.406	.0005591	.0000082	.4872330
2.407	.0005280	.0000075	.4872330
2.408	.0004979	.0000069	.4872330
2.409	.0004689	.0000064	.4872330
2.410	.0004409	.0000059	.4872330
2.411	.0004139	.0000054	.4872330
2.412	.0003879	.0000049	.4872330
2.413	.0003629	.0000044	.4872330
2.414	.0003388	.0000040	.4872330
2.415	.0003158	.0000037	.4872330
2.416	.0002936	.0000033	.4872330
2.417	.0002725	.0000030	.4872330
2.418	.0002522	.0000027	.4872330
2.419	.0002329	.0000024	.4872330
2.420	.0002144	.0000021	.4872330
2.421	.0001969	.0000019	.4872330
2.422	.0001803	.0000017	.4872330
2.423	.0001645	.0000015	.4872330
2.424	.0001495	.0000013	.4872330
2.425	.0001354	.0000011	.4872330
2.426	.0001221	.0000010	.4872330
2.427	.0001096	.0000008	.4872330
2.428	.0000979	.0000007	.4872330
2.429	.0000870	.0000006	.4872330
2.430	.0000769	.0000005	.4872330
2.431	.0000674	.0000004	.4872330
2.432	.0000587	.0000003	.4872330
2.433	.0000507	.0000003	.4872330
2.434	.0000434	.0000002	.4872330
2.435	.0000368	.0000002	.4872330
2.436	.0000308	.0000001	.4872330
2.437	.0000254	.0000001	.4872330
2.438	.0000207	.0000001	.4872330
2.439	.0000165	.0000001	.4872330
2.440	.0000128	.0000000	.4872330
2.441	.0000097	.0000000	.4872330
2.442	.0000071	.0000000	.4872330
2.443	.0000050	.0000000	.4872330
2.444	.0000033	.0000000	.4872330
2.445	.0000020	.0000000	.4872330
2.446	.0000011	.0000000	.4872330
2.447	.0000005	.0000000	.4872330
2.448	.0000001	.0000000	.4872330
2.449	.0000000	.0000000	.4872330

4187

4187

TABLE II. - MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.000	0.0000000	1.0000000	0.0000000
.001	.0010000	.9999994	.0000000
.002	.0020000	.9999977	.0000000
.003	.0030000	.9999946	.0000000
.004	.0040000	.9999907	.0000000
.005	.0049999	.9999855	.0000000
.006	.0059999	.9999795	.0000001
.007	.0069998	.9999721	.0000001
.008	.0079998	.9999639	.0000002
.009	.0089997	.9999539	.0000003
.010	.0099996	.9999435	.0000004
.011	.0109994	.9999314	.0000005
.012	.0119992	.9999184	.0000007
.013	.0129990	.9999045	.0000008
.014	.0139988	.9998889	.0000010
.015	.0149985	.9998729	.0000013
.016	.0159982	.9998551	.0000015
.017	.0169979	.9998365	.0000018
.018	.0179975	.9998166	.0000022
.019	.0189970	.9997958	.0000026
.020	.0199965	.9997737	.0000030
.021	.0209960	.9997507	.0000035
.022	.0219954	.9997264	.0000040
.023	.0229947	.9997009	.0000046
.024	.0239940	.9996744	.0000052
.025	.0249932	.9996467	.0000059
.026	.0259924	.9996177	.0000066
.027	.0269914	.9995878	.0000074
.028	.0279904	.9995566	.0000083
.029	.0289894	.9995246	.0000092
.030	.0299883	.9994912	.0000102
.031	.0309870	.9994570	.0000112
.032	.0319857	.9994210	.0000123
.033	.0329844	.9993846	.0000135
.034	.0339829	.9993465	.0000148
.035	.0349814	.9993076	.0000161
.036	.0359797	.9992677	.0000176
.037	.0369780	.9992261	.0000191
.038	.0379761	.9991841	.0000206
.039	.0389742	.9991404	.0000223
.040	.0399722	.9990958	.0000241
.041	.0409700	.9990499	.0000260
.042	.0419678	.9990031	.0000279
.043	.0429654	.9989551	.0000299
.044	.0439630	.9989061	.0000321
.045	.0449604	.9988559	.0000343
.046	.0459577	.9988044	.0000366
.047	.0469549	.9987520	.0000391
.048	.0479519	.9986983	.0000416
.049	.0489489	.9986434	.0000443
.050	.0499457	.9985875	.0000470

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.051	0.0509423	0.9985304	0.0000499
.052	.0519389	.9984724	.0000529
.053	.0529353	.9984131	.0000560
.054	.0539316	.9983529	.0000592
.055	.0549277	.9982910	.0000626
.056	.0559237	.9982287	.0000661
.057	.0569195	.9981647	.0000697
.058	.0579152	.9980998	.0000734
.059	.0589108	.9980340	.0000772
.060	.0599061	.9979665	.0000812
.061	.0609014	.9978986	.0000853
.062	.0618964	.9978289	.0000896
.063	.0628913	.9977584	.0000940
.064	.0638861	.9976866	.0000986
.065	.0648807	.9976139	.0001033
.066	.0658751	.9975400	.0001081
.067	.0668693	.9974651	.0001131
.068	.0678634	.9973890	.0001182
.069	.0688573	.9973116	.0001235
.070	.0698510	.9972334	.0001289
.071	.0708445	.9971538	.0001345
.072	.0718378	.9970729	.0001403
.073	.0728310	.9969912	.0001462
.074	.0738239	.9969082	.0001523
.075	.0748167	.9968244	.0001585
.076	.0758093	.9967392	.0001649
.077	.0768017	.9966532	.0001715
.078	.0777938	.9965655	.0001783
.079	.0787858	.9964773	.0001852
.080	.0797776	.9963874	.0001923
.081	.0807692	.9962967	.0001996
.082	.0817605	.9962051	.0002070
.083	.0827516	.9961117	.0002147
.084	.0837426	.9960180	.0002225
.085	.0847333	.9959225	.0002305
.086	.0857238	.9958262	.0002387
.087	.0867140	.9957286	.0002472
.088	.0877040	.9956301	.0002557
.089	.0886938	.9955303	.0002645
.090	.0896834	.9954297	.0002735
.091	.0906728	.9953278	.0002827
.092	.0916619	.9952246	.0002921
.093	.0926507	.9951206	.0003017
.094	.0936394	.9950153	.0003115
.095	.0946277	.9949086	.0003216
.096	.0956159	.9948012	.0003318
.097	.0966037	.9946924	.0003422
.098	.0975914	.9945828	.0003529
.099	.0985787	.9944719	.0003637
.100	.0995659	.9943601	.0003748

4187

4187

CB-8

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.101	0.1005527	0.9942467	0.0003862
.102	.1015393	.9941328	.0003977
.103	.1025257	.9940172	.0004095
.104	.1035117	.9939007	.0004215
.105	.1044975	.9937834	.0004337
.106	.1054830	.9936644	.0004462
.107	.1064683	.9935450	.0004588
.108	.1074533	.9934238	.0004718
.109	.1084379	.9933018	.0004850
.110	.1094223	.9931785	.0004984
.111	.1104065	.9930544	.0005120
.112	.1113903	.9929290	.0005259
.113	.1123739	.9928027	.0005401
.114	.1133571	.9926751	.0005545
.115	.1143401	.9925463	.0005691
.116	.1153227	.9924166	.0005840
.117	.1163051	.9922857	.0005992
.118	.1172871	.9921534	.0006146
.119	.1182689	.9920204	.0006303
.120	.1192503	.9918860	.0006463
.121	.1202315	.9917508	.0006625
.122	.1212123	.9916143	.0006789
.123	.1221928	.9914770	.0006956
.124	.1231729	.9913379	.0007127
.125	.1241528	.9911985	.0007299
.126	.1251323	.9910573	.0007475
.127	.1261116	.9909153	.0007654
.128	.1270905	.9907724	.0007835
.129	.1280690	.9906279	.0008019
.130	.1290472	.9904829	.0008205
.131	.1300251	.9903362	.0008395
.132	.1310026	.9901887	.0008588
.133	.1319798	.9900399	.0008784
.134	.1329567	.9898903	.0008982
.135	.1339332	.9897394	.0009183
.136	.1349094	.9895876	.0009387
.137	.1358852	.9894346	.0009594
.138	.1368607	.9892803	.0009805
.139	.1378358	.9891252	.0010018
.140	.1388105	.9889688	.0010234
.141	.1397849	.9888111	.0010454
.142	.1407589	.9886526	.0010676
.143	.1417325	.9884928	.0010902
.144	.1427058	.9883322	.0011130
.145	.1436787	.9881703	.0011362
.146	.1446513	.9880076	.0011597
.147	.1456234	.9878432	.0011835
.148	.1465952	.9876783	.0012076
.149	.1475666	.9875118	.0012321
.150	.1485376	.9873444	.0012569

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.151	0.1495083	0.9871762	0.0012820
.152	.1504785	.9870064	.0013074
.153	.1514483	.9868361	.0013332
.154	.1524178	.9866641	.0013593
.155	.1533868	.9864912	.0013857
.156	.1543554	.9863171	.0014125
.157	.1553237	.9861422	.0014396
.158	.1562916	.9859660	.0014670
.159	.1572590	.9857890	.0014948
.160	.1582261	.9856107	.0015229
.161	.1591927	.9854312	.0015514
.162	.1601589	.9852508	.0015802
.163	.1611247	.9850692	.0016094
.164	.1620900	.9848863	.0016389
.165	.1630550	.9847026	.0016688
.166	.1640195	.9845176	.0016991
.167	.1649836	.9843318	.0017296
.168	.1659472	.9841447	.0017606
.169	.1669105	.9839568	.0017918
.170	.1678733	.9837672	.0018236
.171	.1688357	.9835773	.0018556
.172	.1697975	.9833856	.0018880
.173	.1707590	.9831931	.0019208
.174	.1717201	.9829998	.0019539
.175	.1726806	.9828048	.0019875
.176	.1736408	.9826094	.0020213
.177	.1746005	.9824123	.0020556
.178	.1755597	.9822144	.0020903
.179	.1765185	.9820153	.0021253
.180	.1774768	.9818153	.0021607
.181	.1784346	.9816141	.0021965
.182	.1793921	.9814121	.0022327
.183	.1803490	.9812088	.0022692
.184	.1813054	.9810042	.0023062
.185	.1822614	.9807989	.0023436
.186	.1832169	.9805922	.0023813
.187	.1841719	.9803844	.0024195
.188	.1851265	.9801757	.0024580
.189	.1860805	.9799658	.0024970
.190	.1870341	.9797550	.0025363
.191	.1879872	.9795430	.0025761
.192	.1889399	.9793302	.0026162
.193	.1898920	.9791158	.0026568
.194	.1908436	.9789009	.0026977
.195	.1917947	.9786844	.0027391
.196	.1927453	.9784670	.0027809
.197	.1936955	.9782489	.0028231
.198	.1946451	.9780290	.0028658
.199	.1955943	.9778088	.0029087
.200	.1965428	.9775869	.0029522

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.201	0.1974909	0.9773642	0.0029961
.202	.1984385	.9771403	.0030404
.203	.1993856	.9769155	.0030851
.204	.2003321	.9766896	.0031303
.205	.2012782	.9764628	.0031758
.206	.2022237	.9762347	.0032218
.207	.2031686	.9760055	.0032683
.208	.2041131	.9757754	.0033152
.209	.2050570	.9755441	.0033625
.210	.2060004	.9753116	.0034103
.211	.2069432	.9750782	.0034585
.212	.2078855	.9748436	.0035071
.213	.2088273	.9746083	.0035562
.214	.2097686	.9743716	.0036057
.215	.2107093	.9741342	.0036556
.216	.2116494	.9738951	.0037061
.217	.2125890	.9736557	.0037569
.218	.2135280	.9734146	.0038083
.219	.2144665	.9731727	.0038600
.220	.2154044	.9729300	.0039122
.221	.2163417	.9726856	.0039649
.222	.2172786	.9724408	.0040180
.223	.2182148	.9721945	.0040717
.224	.2191505	.9719473	.0041257
.225	.2200855	.9716989	.0041803
.226	.2210201	.9714496	.0042352
.227	.2219540	.9711992	.0042907
.228	.2228874	.9709480	.0043466
.229	.2238202	.9706955	.0044030
.230	.2247524	.9704419	.0044599
.231	.2256841	.9701874	.0045172
.232	.2266151	.9699317	.0045750
.233	.2275455	.9696748	.0046333
.234	.2284754	.9694171	.0046921
.235	.2294047	.9691582	.0047514
.236	.2303334	.9688985	.0048111
.237	.2312614	.9686376	.0048713
.238	.2321889	.9683759	.0049319
.239	.2331158	.9681125	.0049932
.240	.2340421	.9678488	.0050548
.241	.2349677	.9675835	.0051170
.242	.2358927	.9673173	.0051797
.243	.2368172	.9670504	.0052428
.244	.2377410	.9667818	.0053065
.245	.2386642	.9665129	.0053705
.246	.2395868	.9662424	.0054352
.247	.2405087	.9659710	.0055004
.248	.2414300	.9656985	.0055661
.249	.2423508	.9654251	.0056322
.250	.2432709	.9651506	.0056988

4187

CB-8 back

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.251	0.2441903	0.9648753	0.0057659
.252	.2451092	.9645988	.0058336
.253	.2460273	.9643210	.0059018
.254	.2469449	.9640425	.0059704
.255	.2478618	.9637628	.0060396
.256	.2487780	.9634819	.0061094
.257	.2496936	.9632002	.0061796
.258	.2506085	.9629173	.0062504
.259	.2515229	.9626337	.0063216
.260	.2524365	.9623488	.0063934
.261	.2533496	.9620632	.0064656
.262	.2542618	.9617759	.0065385
.263	.2551736	.9614883	.0066118
.264	.2560846	.9611991	.0066857
.265	.2569949	.9609091	.0067601
.266	.2579047	.9606183	.0068350
.267	.2588136	.9603259	.0069105
.268	.2597220	.9600332	.0069864
.269	.2606297	.9597388	.0070630
.270	.2615367	.9594437	.0071400
.270	.2615367	.9594437	.0071400
.271	.2624430	.9591474	.0072177
.272	.2633486	.9588503	.0072958
.273	.2642536	.9585520	.0073744
.274	.2651579	.9582530	.0074536
.275	.2660615	.9579528	.0075333
.276	.2669643	.9576514	.0076137
.277	.2678666	.9573492	.0076945
.278	.2687681	.9570459	.0077759
.279	.2696688	.9567413	.0078578
.280	.2705690	.9564360	.0079403
.281	.2714683	.9561296	.0080234
.282	.2723671	.9558223	.0081069
.283	.2732651	.9555139	.0081911
.284	.2741624	.9552047	.0082757
.285	.2750589	.9548939	.0083610
.286	.2759549	.9545828	.0084467
.287	.2768499	.9542701	.0085332
.288	.2777444	.9539567	.0086201
.289	.2786381	.9536424	.0087075
.290	.2795311	.9533266	.0087957
.291	.2804234	.9530105	.0088842
.292	.2813149	.9526927	.0089734
.293	.2822057	.9523742	.0090632
.294	.2830958	.9520546	.0091535
.295	.2839851	.9517342	.0092444
.296	.2848737	.9514126	.0093358
.297	.2857616	.9510902	.0094278
.298	.2866488	.9507667	.0095204
.299	.2875351	.9504421	.0096136
.300	.2884208	.9501167	.0097073

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.301	0.2893057	0.9497901	0.0098016
.302	.2901898	.9494623	.0098966
.303	.2910732	.9491339	.0099921
.304	.2919558	.9488042	.0100882
.305	.2928377	.9484738	.0101848
.306	.2937188	.9481423	.0102820
.307	.2945993	.9478100	.0103797
.308	.2954788	.9474761	.0104783
.309	.2963577	.9471419	.0105771
.310	.2972357	.9468062	.0106768
.311	.2981130	.9464697	.0107770
.312	.2989896	.9461324	.0108777
.313	.2998653	.9457936	.0109791
.314	.3007403	.9454545	.0110809
.315	.3016145	.9451138	.0111836
.316	.3024879	.9447723	.0112867
.317	.3033605	.9444298	.0113905
.318	.3042324	.9440865	.0114948
.319	.3051034	.9437420	.0115997
.320	.3059737	.9433968	.0117052
.321	.3068432	.9430505	.0118113
.322	.3077119	.9427030	.0119181
.323	.3085798	.9423548	.0120254
.324	.3094469	.9420054	.0121333
.325	.3103131	.9416549	.0122419
.326	.3111786	.9413037	.0123511
.327	.3120432	.9409513	.0124609
.328	.3129072	.9405982	.0125712
.329	.3137702	.9402440	.0126822
.330	.3146325	.9398891	.0127937
.331	.3154939	.9395326	.0129060
.332	.3163546	.9391758	.0130188
.333	.3172143	.9388174	.0131323
.334	.3180733	.9384583	.0132463
.335	.3189315	.9380985	.0133609
.336	.3197888	.9377372	.0134763
.337	.3206454	.9373755	.0135921
.338	.3215010	.9370124	.0137088
.339	.3223559	.9366485	.0138259
.340	.3232098	.9362834	.0139437
.341	.3240630	.9359177	.0140621
.342	.3249154	.9355508	.0141811
.343	.3257669	.9351832	.0143007
.344	.3266176	.9348145	.0144210
.345	.3274674	.9344447	.0145419
.346	.3283164	.9340742	.0146634
.347	.3291645	.9337025	.0147856
.348	.3300117	.9333297	.0149085
.349	.3308581	.9329563	.0150319
.350	.3317037	.9325817	.0151560

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.351	0.3325484	0.9322064	0.0152806
.352	.3333922	.9318299	.0154060
.353	.3342353	.9314528	.0155319
.354	.3350773	.9310742	.0156586
.355	.3359186	.9306952	.0157857
.356	.3367590	.9303148	.0159137
.357	.3375985	.9299336	.0160422
.358	.3384372	.9295518	.0161713
.359	.3392749	.9291684	.0163012
.360	.3401119	.9287847	.0164315
.361	.3409478	.9283996	.0165627
.362	.3417829	.9280137	.0166944
.363	.3426172	.9276267	.0168268
.364	.3434506	.9272390	.0169598
.365	.3442830	.9268503	.0170935
.366	.3451147	.9264608	.0172277
.367	.3459454	.9260702	.0173627
.368	.3467752	.9256786	.0174983
.369	.3476041	.9252862	.0176346
.370	.3484321	.9248928	.0177715
.371	.3492592	.9244982	.0179091
.372	.3500854	.9241030	.0180473
.373	.3509107	.9237067	.0181862
.374	.3517351	.9233097	.0183257
.375	.3525586	.9229116	.0184659
.376	.3533813	.9225128	.0186067
.377	.3542028	.9221125	.0187483
.378	.3550237	.9217120	.0188903
.379	.3558435	.9213099	.0190332
.380	.3566624	.9209072	.0191767
.381	.3574805	.9205038	.0193207
.382	.3582975	.9200989	.0194656
.383	.3591137	.9196938	.0196110
.384	.3599289	.9192871	.0197572
.385	.3607432	.9188798	.0199039
.386	.3615566	.9184714	.0200514
.387	.3623690	.9180623	.0201995
.388	.3631805	.9176522	.0203483
.389	.3639912	.9172414	.0204976
.390	.3648008	.9168295	.0206477
.391	.3656095	.9164165	.0207986
.392	.3664173	.9160029	.0209500
.393	.3672241	.9155882	.0211021
.394	.3680299	.9151724	.0212549
.395	.3688348	.9147560	.0214083
.396	.3696387	.9143385	.0215625
.397	.3704418	.9139203	.0217172
.398	.3712439	.9135011	.0218727
.399	.3720450	.9130812	.0220288
.400	.3728451	.9126598	.0221857

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.401	0.3736443	0.9122382	0.0223431
.402	.3744425	.9118151	.0225013
.403	.3752397	.9113914	.0226601
.404	.3760361	.9109670	.0228196
.405	.3768313	.9105412	.0229799
.406	.3776258	.9101151	.0231406
.407	.3784191	.9096875	.0233022
.408	.3792115	.9092593	.0234644
.409	.3800029	.9088301	.0236274
.410	.3807934	.9084001	.0237909
.411	.3815828	.9079692	.0239552
.412	.3823714	.9075376	.0241201
.413	.3831589	.9071049	.0242857
.414	.3839454	.9066712	.0244520
.415	.3847309	.9062369	.0246190
.416	.3855155	.9058015	.0247866
.417	.3862989	.9053650	.0249551
.418	.3870815	.9049280	.0251241
.419	.3878630	.9044898	.0252938
.420	.3886436	.9040511	.0254642
.421	.3894232	.9036113	.0256353
.422	.3902018	.9031709	.0258070
.423	.3909793	.9027290	.0259795
.424	.3917559	.9022869	.0261526
.425	.3925314	.9018434	.0263265
.426	.3933059	.9013992	.0265010
.427	.3940795	.9009544	.0266761
.428	.3948519	.9005082	.0268522
.429	.3956235	.9000617	.0270286
.430	.3963939	.8996138	.0272060
.431	.3971634	.8991653	.0273839
.432	.3979318	.8987158	.0275627
.433	.3986992	.8982656	.0277420
.434	.3994656	.8978144	.0279220
.435	.4002310	.8973626	.0281027
.436	.4009954	.8969098	.0282841
.437	.4017586	.8964559	.0284663
.438	.4025209	.8960014	.0286490
.439	.4032822	.8955459	.0288325
.440	.4040423	.8950894	.0290168
.441	.4048015	.8946323	.0292017
.442	.4055596	.8941742	.0293873
.443	.4063167	.8937154	.0295735
.444	.4070727	.8932557	.0297605
.445	.4078278	.8927953	.0299481
.446	.4085817	.8923335	.0301366
.447	.4093347	.8918715	.0303255
.448	.4100864	.8914081	.0305154
.449	.4108372	.8909441	.0307058
.450	.4115870	.8904795	.0308969

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.451	0.4123356	0.8900135	0.0310889
.452	.4130834	.8895473	.0312813
.453	.4138298	.8890797	.0314746
.454	.4145754	.8886115	.0316685
.455	.4153198	.8881423	.0318632
.456	.4160632	.8876725	.0320585
.457	.4168055	.8872017	.0322546
.458	.4175468	.8867303	.0324513
.459	.4182869	.8862579	.0326487
.460	.4190260	.8857845	.0328469
.461	.4197641	.8853105	.0330456
.462	.4205010	.8848356	.0332452
.463	.4212368	.8843596	.0334455
.464	.4219716	.8838831	.0336464
.465	.4227053	.8834055	.0338481
.466	.4234379	.8829274	.0340504
.467	.4241695	.8824483	.0342534
.468	.4249000	.8819686	.0344571
.469	.4256292	.8814876	.0346616
.470	.4263576	.8810063	.0348667
.471	.4270847	.8805237	.0350726
.472	.4278108	.8800405	.0352791
.473	.4285359	.8795567	.0354863
.474	.4292596	.8790716	.0356944
.475	.4299825	.8785862	.0359029
.476	.4307041	.8780995	.0361123
.477	.4314247	.8776123	.0363224
.478	.4321442	.8771240	.0365332
.479	.4328626	.8766352	.0367446
.480	.4335798	.8761454	.0369568
.481	.4342961	.8756551	.0371696
.482	.4350111	.8751638	.0373831
.483	.4357250	.8746715	.0375974
.484	.4364379	.8741787	.0378123
.485	.4371496	.8736848	.0380280
.486	.4378601	.8731901	.0382445
.487	.4385695	.8726948	.0384616
.488	.4392778	.8721985	.0386794
.489	.4399851	.8717017	.0388978
.490	.4406912	.8712039	.0391170
.491	.4413962	.8707055	.0393368
.492	.4420999	.8702058	.0395575
.493	.4428028	.8697060	.0397787
.494	.4435043	.8692048	.0400008
.495	.4442047	.8687030	.0402235
.496	.4449041	.8682007	.0404468
.497	.4456021	.8676971	.0406711
.498	.4462993	.8671933	.0408957
.499	.4469951	.8666882	.0411213
.500	.4476898	.8661825	.0413475

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.501	0.4483834	0.8656759	0.0415745
.502	.4490759	.8651687	.0418021
.503	.4497672	.8646606	.0420305
.504	.4504574	.8641520	.0422594
.505	.4511464	.8636424	.0424891
.506	.4518342	.8631319	.0427196
.507	.4525210	.8626209	.0429507
.508	.4532065	.8621089	.0431825
.509	.4538908	.8615960	.0434152
.510	.4545741	.8610826	.0436484
.511	.4552561	.8605682	.0438824
.512	.4559370	.8600534	.0441169
.513	.4566168	.8595375	.0443523
.514	.4572954	.8590212	.0445882
.515	.4579727	.8585036	.0448251
.516	.4586491	.8579858	.0450624
.517	.4593241	.8574667	.0453007
.518	.4599980	.8569471	.0455395
.519	.4606708	.8564269	.0457790
.520	.4613422	.8559055	.0460194
.521	.4620127	.8553839	.0462602
.522	.4626818	.8548610	.0465019
.523	.4633498	.8543376	.0467442
.524	.4640166	.8538134	.0469873
.525	.4646823	.8532885	.0472311
.526	.4653468	.8527628	.0474755
.527	.4660101	.8522366	.0477206
.528	.4666722	.8517094	.0479664
.529	.4673331	.8511814	.0482130
.530	.4679929	.8506529	.0484602
.531	.4686514	.8501234	.0487081
.532	.4693086	.8495931	.0489568
.533	.4699648	.8490622	.0492061
.534	.4706197	.8485305	.0494562
.535	.4712735	.8479983	.0497069
.536	.4719260	.8474651	.0499583
.537	.4725774	.8469315	.0502103
.538	.4732274	.8463966	.0504633
.539	.4738765	.8458616	.0507166
.540	.4745241	.8453253	.0509709
.541	.4751706	.8447885	.0512258
.542	.4758160	.8442512	.0514813
.543	.4764600	.8437127	.0517377
.544	.4771030	.8431740	.0519945
.545	.4777446	.8426341	.0522523
.546	.4783850	.8420937	.0525106
.547	.4790242	.8415524	.0527698
.548	.4796623	.8410107	.0530294
.549	.4802991	.8404680	.0532899
.550	.4809347	.8399249	.0535509

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.551	0.4815691	0.8393809	0.0538127
.552	.4822022	.8388361	.0540753
.553	.4828341	.8382907	.0543384
.554	.4834648	.8377445	.0546023
.555	.4840941	.8371975	.0548670
.556	.4847224	.8366499	.0551322
.557	.4853493	.8361015	.0553982
.558	.4859751	.8355526	.0556648
.559	.4865996	.8350029	.0559321
.560	.4872230	.8344527	.0562000
.561	.4878449	.8339013	.0564689
.562	.4884659	.8333497	.0567381
.563	.4890854	.8327970	.0570083
.564	.4897037	.8322438	.0572790
.565	.4903209	.8316901	.0575503
.566	.4909366	.8311351	.0578226
.567	.4915513	.8305801	.0580952
.568	.4921646	.8300239	.0583688
.569	.4927767	.8294672	.0586430
.570	.4933874	.8289097	.0589179
.571	.4939971	.8283517	.0591933
.572	.4946054	.8277929	.0594696
.573	.4952126	.8272336	.0597464
.574	.4958184	.8266735	.0600239
.575	.4964229	.8261125	.0603022
.576	.4970263	.8255511	.0605811
.577	.4976284	.8249889	.0608607
.578	.4982291	.8244258	.0611410
.579	.4988286	.8238623	.0614220
.580	.4994268	.8232980	.0617036
.581	.5000239	.8227332	.0619859
.582	.5006196	.8221676	.0622689
.583	.5012142	.8216016	.0625524
.584	.5018073	.8210344	.0628369
.585	.5023993	.8204671	.0631217
.586	.5029899	.8198986	.0634075
.587	.5035793	.8193296	.0636938
.588	.5041675	.8187603	.0639807
.589	.5047542	.8181897	.0642685
.590	.5053399	.8176191	.0645567
.591	.5059240	.8170473	.0648458
.592	.5065071	.8164751	.0651355
.593	.5070887	.8159020	.0654259
.594	.5076692	.8153286	.0657169
.595	.5082483	.8147543	.0660086
.596	.5088263	.8141796	.0663008
.597	.5094028	.8136041	.0665938
.598	.5099781	.8130279	.0668876
.599	.5105521	.8124512	.0671818
.600	.5111248	.8118737	.0674768

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.601	0.5116962	0.8112954	0.0677726
.602	.5122663	.8107166	.0680689
.603	.5128351	.8101371	.0683659
.604	.5134027	.8095572	.0686635
.605	.5139689	.8089765	.0689618
.606	.5145339	.8083954	.0692606
.607	.5150974	.8078131	.0695604
.608	.5156599	.8072308	.0698605
.609	.5162208	.8066474	.0701615
.610	.5167806	.8060635	.0704631
.611	.5173391	.8054792	.0707652
.612	.5178961	.8048938	.0710682
.613	.5184520	.8043083	.0713716
.614	.5190065	.8037217	.0716759
.615	.5195597	.8031347	.0719807
.616	.5201115	.8025470	.0722862
.617	.5206621	.8019588	.0725923
.618	.5212113	.8013699	.0728991
.619	.5217594	.8007805	.0732064
.620	.5223060	.8001904	.0735145
.621	.5228513	.7995996	.0738232
.622	.5233953	.7990083	.0741325
.623	.5239380	.7984163	.0744425
.624	.5244793	.7978236	.0747533
.625	.5250193	.7972304	.0750645
.626	.5255580	.7966365	.0753765
.627	.5260955	.7960422	.0756890
.628	.5266315	.7954472	.0760022
.629	.5271664	.7948518	.0763159
.630	.5276996	.7942553	.0766305
.631	.5282318	.7936587	.0769455
.632	.5287625	.7930611	.0772614
.633	.5292919	.7924630	.0775777
.634	.5298201	.7918646	.0778946
.635	.5303467	.7912651	.0782124
.636	.5308723	.7906656	.0785305
.637	.5313963	.7900650	.0788495
.638	.5319190	.7894640	.0791691
.639	.5324404	.7888623	.0794893
.640	.5329605	.7882602	.0798100
.641	.5334792	.7876574	.0801314
.642	.5339967	.7870542	.0804534
.643	.5345128	.7864503	.0807760
.644	.5350274	.7858456	.0810994
.645	.5355409	.7852406	.0814232
.646	.5360529	.7846349	.0817478
.647	.5365635	.7840285	.0820730
.648	.5370728	.7834217	.0823987
.649	.5375807	.7828142	.0827252
.650	.5380874	.7822063	.0830521

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.651	0.5385927	0.7815978	0.0833797
.652	.5390967	.7809888	.0837078
.653	.5395991	.7803788	.0840368
.654	.5401005	.7797689	.0843661
.655	.5406003	.7791578	.0846963
.656	.5410988	.7785464	.0850270
.657	.5415960	.7779347	.0853581
.658	.5420917	.7773219	.0856902
.659	.5425863	.7767091	.0860225
.660	.5430792	.7760953	.0863557
.661	.5435709	.7754811	.0866894
.662	.5440612	.7748662	.0870238
.663	.5445503	.7742510	.0873587
.664	.5450379	.7736351	.0876942
.665	.5455242	.7730189	.0880302
.666	.5460091	.7724019	.0883669
.667	.5464926	.7717843	.0887043
.668	.5469748	.7711664	.0890421
.669	.5474555	.7705478	.0893807
.670	.5479349	.7699285	.0897198
.671	.5484129	.7693088	.0900595
.672	.5488896	.7686885	.0903998
.673	.5493649	.7680679	.0907406
.674	.5498388	.7674466	.0910821
.675	.5503115	.7668250	.0914241
.676	.5507825	.7662023	.0917669
.677	.5512524	.7655797	.0921099
.678	.5517207	.7649561	.0924539
.679	.5521878	.7643321	.0927982
.680	.5526535	.7637079	.0931431
.681	.5531177	.7630826	.0934888
.682	.5535807	.7624574	.0938348
.683	.5540421	.7618311	.0941816
.684	.5545023	.7612046	.0945289
.685	.5549609	.7605774	.0948768
.686	.5554183	.7599498	.0952252
.687	.5558743	.7593217	.0955742
.688	.5563289	.7586932	.0959237
.689	.5567822	.7580641	.0962739
.690	.5572339	.7574343	.0966247
.691	.5576844	.7568042	.0969759
.692	.5581334	.7561735	.0973278
.693	.5585809	.7555422	.0976803
.694	.5590272	.7549105	.0980333
.695	.5594720	.7542783	.0983869
.696	.5599155	.7536457	.0987409
.697	.5603575	.7530125	.0990956
.698	.5607983	.7523790	.0994507
.699	.5612374	.7517445	.0998067
.700	.5616754	.7511101	.1001629

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.701	0.5621117	0.7504747	0.1005199
.702	.5625468	.7498390	.1008774
.703	.5629806	.7492030	.1012353
.704	.5634127	.7485661	.1015940
.705	.5638437	.7479292	.1019529
.706	.5642731	.7472914	.1023127
.707	.5647011	.7466533	.1026729
.708	.5651277	.7460146	.1030337
.709	.5655530	.7453756	.1033950
.710	.5659768	.7447360	.1037568
.711	.5663993	.7440961	.1041191
.712	.5668203	.7434556	.1044820
.713	.5672399	.7428145	.1048456
.714	.5676581	.7421732	.1052095
.715	.5680749	.7415312	.1055740
.716	.5684902	.7408887	.1059392
.717	.5689042	.7402458	.1063048
.718	.5693167	.7396024	.1066710
.719	.5697279	.7389587	.1070376
.720	.5701376	.7383144	.1074048
.721	.5705460	.7376699	.1077724
.722	.5709527	.7370244	.1081408
.723	.5713584	.7363790	.1085094
.724	.5717623	.7357327	.1088788
.725	.5721650	.7350861	.1092486
.726	.5725663	.7344393	.1096188
.727	.5729659	.7337916	.1099898
.728	.5733645	.7331439	.1103610
.729	.5737613	.7324954	.1107330
.730	.5741569	.7318466	.1111054
.731	.5745509	.7311972	.1114784
.732	.5749437	.7305475	.1118518
.733	.5753349	.7298973	.1122257
.734	.5757248	.7292469	.1126001
.735	.5761133	.7285959	.1129750
.736	.5765002	.7279443	.1133505
.737	.5768858	.7272925	.1137264
.738	.5772700	.7266401	.1141029
.739	.5776526	.7259872	.1144799
.740	.5780339	.7253340	.1148574
.741	.5784137	.7246803	.1152354
.742	.5787922	.7240263	.1156138
.743	.5791691	.7233718	.1159927
.744	.5795448	.7227171	.1163720
.745	.5799188	.7220614	.1167521
.746	.5802916	.7214059	.1171324
.747	.5806627	.7207495	.1175134
.748	.5810326	.7200929	.1178948
.749	.5814011	.7194361	.1182765
.750	.5817679	.7187784	.1186591

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.751	0.5821336	0.7181208	0.1190417
.752	.5824975	.7174623	.1194252
.753	.5828602	.7168037	.1198090
.754	.5832213	.7161445	.1201933
.755	.5835811	.7154851	.1205780
.756	.5839394	.7148251	.1209633
.757	.5842964	.7141650	.1213489
.758	.5846519	.7135043	.1217350
.759	.5850058	.7128431	.1221217
.760	.5853584	.7121817	.1225088
.761	.5857096	.7115197	.1228963
.762	.5860591	.7108573	.1232845
.763	.5864074	.7101946	.1236729
.764	.5867541	.7095314	.1240619
.765	.5870996	.7088681	.1244513
.766	.5874435	.7082042	.1248412
.767	.5877860	.7075401	.1252314
.768	.5881269	.7068752	.1256223
.769	.5884666	.7062104	.1260134
.770	.5888046	.7055448	.1264052
.771	.5891413	.7048790	.1267973
.772	.5894766	.7042130	.1271898
.773	.5898102	.7035462	.1275830
.774	.5901427	.7028796	.1279763
.775	.5904735	.7022121	.1283703
.776	.5908029	.7015444	.1287647
.777	.5911308	.7008763	.1291595
.778	.5914574	.7002079	.1295547
.779	.5917824	.6995391	.1299504
.780	.5921061	.6988701	.1303464
.781	.5924283	.6982006	.1307429
.782	.5927490	.6975306	.1311400
.783	.5930683	.6968605	.1315373
.784	.5933861	.6961898	.1319351
.785	.5937023	.6955187	.1323335
.786	.5940172	.6948474	.1327321
.787	.5943306	.6941757	.1331313
.788	.5946427	.6935038	.1335307
.789	.5949532	.6928314	.1339307
.790	.5952624	.6921588	.1343309
.791	.5955698	.6914855	.1347318
.792	.5958762	.6908123	.1351328
.793	.5961807	.6901383	.1355345
.794	.5964839	.6894642	.1359365
.795	.5967859	.6887900	.1363388
.796	.5970860	.6881149	.1367418
.797	.5973850	.6874400	.1371448
.798	.5976823	.6867644	.1375486
.799	.5979783	.6860886	.1379526
.800	.5982727	.6854123	.1383571

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.801	0.5985657	0.6847359	0.1387618
.802	.5988572	.6840591	.1391671
.803	.5991474	.6833821	.1395726
.804	.5994361	.6827047	.1399785
.805	.5997232	.6820268	.1403850
.806	.6000089	.6813488	.1407917
.807	.6002932	.6806703	.1411989
.808	.6005758	.6799914	.1416065
.809	.6008572	.6793124	.1420144
.810	.6011370	.6786329	.1424228
.811	.6014154	.6779533	.1428314
.812	.6016923	.6772733	.1432405
.813	.6019679	.6765932	.1436498
.814	.6022417	.6759123	.1440598
.815	.6025144	.6752316	.1444698
.816	.6027853	.6745501	.1448805
.817	.6030548	.6738685	.1452914
.818	.6033231	.6731869	.1457026
.819	.6035896	.6725045	.1461144
.820	.6038549	.6718222	.1465263
.821	.6041185	.6711393	.1469388
.822	.6043807	.6704563	.1473515
.823	.6046414	.6697728	.1477647
.824	.6049008	.6690892	.1481781
.825	.6051586	.6684052	.1485919
.826	.6054151	.6677211	.1490060
.827	.6056700	.6670366	.1494205
.828	.6059233	.6663517	.1498354
.829	.6061753	.6656667	.1502505
.830	.6064258	.6649813	.1506661
.831	.6066747	.6642955	.1510821
.832	.6069222	.6636096	.1514983
.833	.6071682	.6629233	.1519149
.834	.6074129	.6622369	.1523317
.835	.6076560	.6615501	.1527490
.836	.6078978	.6608632	.1531665
.837	.6081378	.6601756	.1535845
.838	.6083767	.6594883	.1540026
.839	.6086138	.6588002	.1544213
.840	.6088495	.6581121	.1548402
.841	.6090839	.6574239	.1552593
.842	.6093166	.6567350	.1556790
.843	.6095481	.6560463	.1560986
.844	.6097778	.6553570	.1565189
.845	.6100062	.6546675	.1569394
.846	.6102330	.6539777	.1573603
.847	.6104585	.6532878	.1577813
.848	.6106825	.6525976	.1582028
.849	.6109051	.6519073	.1586244
.850	.6111261	.6512166	.1590465

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.851	0.6113455	0.6505255	0.1594689
.852	.6115637	.6498344	.1598914
.853	.6117802	.6491429	.1603144
.854	.6119952	.6484511	.1607377
.855	.6122089	.6477592	.1611613
.856	.6124210	.6470669	.1615851
.857	.6126318	.6463746	.1620092
.858	.6128410	.6456819	.1624336
.859	.6130488	.6449892	.1628582
.860	.6132549	.6442958	.1632834
.861	.6134598	.6436027	.1637085
.862	.6136630	.6429090	.1641342
.863	.6138648	.6422151	.1645600
.864	.6140653	.6415213	.1649860
.865	.6142640	.6408268	.1654126
.866	.6144616	.6401325	.1658391
.867	.6146574	.6394376	.1662662
.868	.6148518	.6387427	.1666934
.869	.6150447	.6380474	.1671209
.870	.6152362	.6373521	.1675486
.871	.6154262	.6366565	.1679767
.872	.6156148	.6359608	.1684049
.873	.6158019	.6352649	.1688334
.874	.6159874	.6345685	.1692623
.875	.6161716	.6338722	.1696913
.876	.6163542	.6331755	.1701206
.877	.6165352	.6324785	.1705503
.878	.6167149	.6317815	.1709800
.879	.6168930	.6310842	.1714102
.880	.6170698	.6303868	.1718404
.881	.6172450	.6296891	.1722710
.882	.6174187	.6289912	.1727019
.883	.6175910	.6282932	.1731329
.884	.6177620	.6275951	.1735640
.885	.6179312	.6268965	.1739957
.886	.6180990	.6261979	.1744274
.887	.6182655	.6254993	.1748593
.888	.6184302	.6248000	.1752917
.889	.6185936	.6241008	.1757242
.890	.6187556	.6234016	.1761568
.891	.6189161	.6227020	.1765897
.892	.6190750	.6220022	.1770229
.893	.6192325	.6213023	.1774562
.894	.6193885	.6206022	.1778898
.895	.6195432	.6199021	.1783235
.896	.6196963	.6192017	.1787575
.897	.6198478	.6185010	.1791918
.898	.6199980	.6178003	.1796261
.899	.6201466	.6170993	.1800608
.900	.6202936	.6163980	.1804957

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.901	0.6204393	0.6156968	0.1809307
.902	.6205835	.6149953	.1813661
.903	.6207263	.6142938	.1818014
.904	.6208675	.6135920	.1822371
.905	.6210072	.6128899	.1826731
.906	.6211455	.6121879	.1831091
.907	.6212825	.6114859	.1835452
.908	.6214178	.6107833	.1839817
.909	.6215516	.6100808	.1844183
.910	.6216842	.6093782	.1848550
.911	.6218149	.6086752	.1852922
.912	.6219443	.6079721	.1857294
.913	.6220724	.6072691	.1861667
.914	.6221989	.6065658	.1866042
.915	.6223238	.6058623	.1870420
.916	.6224474	.6051588	.1874798
.917	.6225695	.6044551	.1879179
.918	.6226902	.6037514	.1883560
.919	.6228093	.6030474	.1887944
.920	.6229269	.6023432	.1892330
.921	.6230431	.6016391	.1896717
.922	.6231578	.6009347	.1901106
.923	.6232709	.6002300	.1905498
.924	.6233827	.5995254	.1909890
.925	.6234929	.5988206	.1914284
.926	.6236018	.5981158	.1918678
.927	.6237091	.5974108	.1923075
.928	.6238149	.5967055	.1927474
.929	.6239193	.5960003	.1931874
.930	.6240224	.5952952	.1936274
.931	.6241237	.5945896	.1940677
.932	.6242237	.5938840	.1945081
.933	.6243223	.5931785	.1949486
.934	.6244191	.5924724	.1953894
.935	.6245147	.5917665	.1958303
.936	.6246089	.5910606	.1962711
.937	.6247015	.5903544	.1967122
.938	.6247925	.5896481	.1971535
.939	.6248823	.5889418	.1975948
.940	.6249705	.5882354	.1980363
.941	.6250573	.5875290	.1984778
.942	.6251426	.5868224	.1989195
.943	.6252263	.5861155	.1993614
.944	.6253087	.5854088	.1998033
.945	.6253896	.5847019	.2002454
.946	.6254688	.5839947	.2006877
.947	.6255468	.5832877	.2011299
.948	.6256232	.5825804	.2015724
.949	.6256983	.5818732	.2020148
.950	.6257718	.5811659	.2024574

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
0.951	0.6258438	0.5804583	0.2029002
.952	.6259144	.5797508	.2033430
.953	.6259837	.5790435	.2037858
.954	.6260512	.5783356	.2042289
.955	.6261174	.5776279	.2046720
.956	.6261823	.5769202	.2051151
.957	.6262454	.5762121	.2055586
.958	.6263071	.5755041	.2060020
.959	.6263676	.5747962	.2064454
.960	.6264265	.5740881	.2068889
.961	.6264838	.5733798	.2073326
.962	.6265398	.5726717	.2077763
.963	.6265943	.5719633	.2082201
.964	.6266474	.5712551	.2086639
.965	.6266990	.5705467	.2091078
.966	.6267491	.5698382	.2095519
.967	.6267978	.5691297	.2099959
.968	.6268450	.5684211	.2104401
.969	.6268906	.5677124	.2108844
.970	.6269349	.5670037	.2113287
.971	.6269776	.5662949	.2117730
.972	.6270191	.5655862	.2122174
.973	.6270590	.5648774	.2126619
.974	.6270973	.5641684	.2131065
.975	.6271343	.5634595	.2135510
.976	.6271700	.5627508	.2139955
.977	.6272040	.5620416	.2144403
.978	.6272366	.5613326	.2148850
.979	.6272679	.5606237	.2153296
.980	.6272974	.5599144	.2157746
.981	.6273256	.5592052	.2162195
.982	.6273525	.5584962	.2166643
.983	.6273779	.5577870	.2171092
.984	.6274017	.5570777	.2175542
.985	.6274241	.5563685	.2179992
.986	.6274451	.5556592	.2184442
.987	.6274648	.5549500	.2188892
.988	.6274829	.5542407	.2193342
.989	.6274994	.5535313	.2197794
.990	.6275147	.5528220	.2202245
.991	.6275284	.5521126	.2206696
.992	.6275406	.5514031	.2211149
.993	.6275515	.5506937	.2215600
.994	.6275608	.5499842	.2220053
.995	.6275688	.5492749	.2224504
.996	.6275753	.5485655	.2228956
.997	.6275803	.5478559	.2233409
.998	.6275839	.5471465	.2237862
.999	.6275863	.5464373	.2242313
1.000	.6275868	.5457277	.2246766

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.001	0.6275861	0.5450182	0.2251218
1.002	.6275841	.5443090	.2255670
1.003	.6275803	.5435993	.2260123
1.004	.6275752	.5428898	.2264576
1.005	.6275688	.5421805	.2269027
1.006	.6275609	.5414711	.2273479
1.007	.6275515	.5407616	.2277932
1.008	.6275407	.5400523	.2282383
1.009	.6275284	.5393428	.2286835
1.010	.6275149	.5386336	.2291286
1.011	.6274998	.5379243	.2295737
1.012	.6274831	.5372149	.2300188
1.013	.6274652	.5365056	.2304639
1.014	.6274458	.5357963	.2309089
1.015	.6274248	.5350869	.2313540
1.016	.6274025	.5343777	.2317990
1.017	.6273787	.5336684	.2322440
1.018	.6273536	.5329593	.2326889
1.019	.6273270	.5322501	.2331338
1.020	.6272989	.5315408	.2335787
1.021	.6272695	.5308318	.2340235
1.022	.6272387	.5301229	.2344681
1.023	.6272063	.5294137	.2349130
1.024	.6271725	.5287047	.2353576
1.025	.6271375	.5279959	.2358022
1.026	.6271007	.5272868	.2362469
1.027	.6270626	.5265779	.2366914
1.028	.6270233	.5258692	.2371358
1.029	.6269824	.5251604	.2375802
1.030	.6269400	.5244516	.2380246
1.031	.6268963	.5237429	.2384689
1.032	.6268512	.5230343	.2389131
1.033	.6268047	.5223258	.2393572
1.034	.6267567	.5216173	.2398013
1.035	.6267072	.5209087	.2402454
1.036	.6266564	.5202004	.2406893
1.037	.6266042	.5194920	.2411332
1.038	.6265504	.5187836	.2415771
1.039	.6264953	.5180754	.2420208
1.040	.6264387	.5173671	.2424645
1.041	.6263809	.5166591	.2429080
1.042	.6263215	.5159510	.2433515
1.043	.6262609	.5152432	.2437948
1.044	.6261985	.5145351	.2442382
1.045	.6261351	.5138274	.2446813
1.046	.6260700	.5131195	.2451246
1.047	.6260035	.5124118	.2455676
1.048	.6259359	.5117044	.2460104
1.049	.6258664	.5109966	.2464534
1.050	.6257960	.5102894	.2468960

CB-10 back

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.051	0.6257238	0.5095818	0.2473388
1.052	.6256503	.5088746	.2477813
1.053	.6255754	.5081673	.2482238
1.054	.6254992	.5074602	.2486661
1.055	.6254215	.5067531	.2491084
1.056	.6253425	.5060463	.2495504
1.057	.6252620	.5053394	.2499924
1.058	.6251801	.5046326	.2504343
1.059	.6250968	.5039260	.2508761
1.060	.6250121	.5032194	.2513177
1.061	.6249259	.5025128	.2517593
1.062	.6248385	.5018064	.2522007
1.063	.6247495	.5011001	.2526420
1.064	.6246593	.5003940	.2530832
1.065	.6245676	.4996879	.2535242
1.066	.6244746	.4989820	.2539650
1.067	.6243800	.4982759	.2544059
1.068	.6242843	.4975704	.2548464
1.069	.6241869	.4968646	.2552870
1.070	.6240882	.4961590	.2557274
1.071	.6239883	.4954537	.2561675
1.072	.6238867	.4947482	.2566077
1.073	.6237841	.4940432	.2570475
1.074	.6236797	.4933380	.2574873
1.075	.6235741	.4926330	.2579270
1.076	.6234671	.4919281	.2583665
1.077	.6233588	.4912234	.2588058
1.078	.6232490	.4905188	.2592450
1.079	.6231379	.4898144	.2596840
1.080	.6230254	.4891101	.2601228
1.081	.6229115	.4884058	.2605616
1.082	.6227962	.4877018	.2610001
1.083	.6226796	.4869978	.2614385
1.084	.6225614	.4862939	.2618768
1.085	.6224420	.4855902	.2623148
1.086	.6223211	.4848866	.2627527
1.087	.6221990	.4841832	.2631904
1.088	.6220755	.4834799	.2636279
1.089	.6219507	.4827769	.2640652
1.090	.6218242	.4820737	.2645025
1.091	.6216967	.4813710	.2649394
1.092	.6215675	.4806682	.2653764
1.093	.6214371	.4799656	.2658130
1.094	.6213055	.4792633	.2662494
1.095	.6211721	.4785609	.2666858
1.096	.6210378	.4778590	.2671217
1.097	.6209018	.4771568	.2675577
1.098	.6207645	.4764551	.2679934
1.099	.6206258	.4757533	.2684290
1.100	.6204859	.4750519	.2688643

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.101	0.6203446	0.4743505	0.2692994
1.102	.6202020	.4736495	.2697343
1.103	.6200580	.4729485	.2701690
1.104	.6199125	.4722475	.2706035
1.105	.6197658	.4715469	.2710378
1.106	.6196176	.4708464	.2714719
1.107	.6194680	.4701459	.2719059
1.108	.6193172	.4694457	.2723396
1.109	.6191650	.4687457	.2727731
1.110	.6190115	.4680459	.2732063
1.111	.6188566	.4673462	.2736394
1.112	.6187005	.4666469	.2740721
1.113	.6185427	.4659474	.2745048
1.114	.6183839	.4652484	.2749371
1.115	.6182235	.4645493	.2753694
1.116	.6180619	.4638506	.2758013
1.117	.6178991	.4631521	.2762329
1.118	.6177345	.4624535	.2766645
1.119	.6175691	.4617555	.2770957
1.120	.6174019	.4610574	.2775268
1.121	.6172336	.4603595	.2779576
1.122	.6170638	.4596618	.2783882
1.123	.6168929	.4589644	.2788184
1.124	.6167205	.4582671	.2792485
1.125	.6165469	.4575702	.2796783
1.126	.6163719	.4568733	.2801079
1.127	.6161955	.4561766	.2805372
1.128	.6160179	.4554802	.2809663
1.129	.6158388	.4547839	.2813952
1.130	.6156584	.4540877	.2818238
1.131	.6154767	.4533919	.2822522
1.132	.6152937	.4526962	.2826803
1.133	.6151094	.4520008	.2831081
1.134	.6149238	.4513056	.2835357
1.135	.6147369	.4506107	.2839629
1.136	.6145484	.4499157	.2843901
1.137	.6143590	.4492212	.2848168
1.138	.6141679	.4485267	.2852434
1.139	.6139757	.4478325	.2856697
1.140	.6137822	.4471387	.2860956
1.141	.6135872	.4464448	.2865214
1.142	.6133911	.4457515	.2869468
1.143	.6131935	.4450581	.2873721
1.144	.6129947	.4443650	.2877970
1.145	.6127944	.4436721	.2882217
1.146	.6125931	.4429796	.2886460
1.147	.6123903	.4422872	.2890701
1.148	.6121863	.4415951	.2894938
1.149	.6119810	.4409032	.2899173
1.150	.6117742	.4402115	.2903406

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.151	0.6115663	0.4395201	0.2907635
1.152	.6113570	.4388288	.2911861
1.153	.6111463	.4381377	.2916086
1.154	.6109345	.4374470	.2920306
1.155	.6107212	.4367565	.2924524
1.156	.6105069	.4360663	.2928739
1.157	.6102911	.4353763	.2932951
1.158	.6100741	.4346866	.2937159
1.159	.6098556	.4339969	.2941366
1.160	.6096361	.4333078	.2945567
1.161	.6094150	.4326187	.2949768
1.162	.6091928	.4319299	.2953965
1.163	.6089694	.4312415	.2958158
1.164	.6087445	.4305530	.2962349
1.165	.6085186	.4298652	.2966536
1.166	.6082911	.4291773	.2970721
1.167	.6080624	.4284898	.2974902
1.168	.6078324	.4278025	.2979081
1.169	.6076013	.4271156	.2983255
1.170	.6073687	.4264288	.2987427
1.171	.6071351	.4257425	.2991595
1.172	.6069001	.4250563	.2995760
1.173	.6066637	.4243703	.2999923
1.174	.6064262	.4236847	.3004081
1.175	.6061873	.4229993	.3008237
1.176	.6059470	.4223141	.3012390
1.177	.6057057	.4216293	.3016538
1.178	.6054629	.4209446	.3020685
1.179	.6052191	.4202604	.3024826
1.180	.6049739	.4195764	.3028965
1.181	.6047276	.4188927	.3033100
1.182	.6044797	.4182091	.3037234
1.183	.6042309	.4175261	.3041362
1.184	.6039805	.4168431	.3045488
1.185	.6037290	.4161604	.3049610
1.186	.6034764	.4154782	.3053728
1.187	.6032222	.4147960	.3057844
1.188	.6029671	.4141144	.3061954
1.189	.6027105	.4134328	.3066063
1.190	.6024527	.4127517	.3070168
1.191	.6021937	.4120707	.3074269
1.192	.6019335	.4113902	.3078367
1.193	.6016719	.4107098	.3082461
1.194	.6014093	.4100299	.3086551
1.195	.6011454	.4093503	.3090637
1.196	.6008801	.4086708	.3094721
1.197	.6006137	.4079917	.3098801
1.198	.6003459	.4073129	.3102877
1.199	.6000769	.4066343	.3106950
1.200	.5998067	.4059562	.3111018

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.201	0.5995353	0.4052782	0.3115084
1.202	.5992627	.4046007	.3119145
1.203	.5989888	.4039234	.3123203
1.204	.5987139	.4032466	.3127256
1.205	.5984374	.4025698	.3131307
1.206	.5981600	.4018936	.3135353
1.207	.5978811	.4012174	.3139396
1.208	.5976011	.4005417	.3143435
1.209	.5973200	.3998665	.3147470
1.210	.5970373	.3991912	.3151502
1.211	.5967539	.3985166	.3155528
1.212	.5964689	.3978421	.3159553
1.213	.5961828	.3971680	.3163573
1.214	.5958954	.3964941	.3167589
1.215	.5956070	.3958207	.3171601
1.216	.5953172	.3951476	.3175609
1.217	.5950264	.3944749	.3179613
1.218	.5947343	.3938024	.3183613
1.219	.5944408	.3931302	.3187610
1.220	.5941464	.3924585	.3191602
1.221	.5938506	.3917870	.3195591
1.222	.5935535	.3911157	.3199576
1.223	.5932554	.3904449	.3203557
1.224	.5929560	.3897744	.3207533
1.225	.5926555	.3891044	.3211506
1.226	.5923538	.3884346	.3215474
1.227	.5920510	.3877653	.3219438
1.228	.5917466	.3870960	.3223399
1.229	.5914415	.3864274	.3227355
1.230	.5911348	.3857588	.3231308
1.231	.5908271	.3850908	.3235256
1.232	.5905184	.3844232	.3239199
1.233	.5902082	.3837557	.3243140
1.234	.5898971	.3830888	.3247075
1.235	.5895846	.3824220	.3251007
1.236	.5892710	.3817557	.3254935
1.237	.5889561	.3810897	.3258858
1.238	.5886402	.3804242	.3262777
1.239	.5883231	.3797589	.3266692
1.240	.5880049	.3790941	.3270602
1.241	.5876855	.3784296	.3274508
1.242	.5873647	.3777654	.3278411
1.243	.5870430	.3771017	.3282308
1.244	.5867200	.3764382	.3286202
1.245	.5863958	.3757750	.3290092
1.246	.5860705	.3751124	.3293977
1.247	.5857440	.3744500	.3297858
1.248	.5854165	.3737881	.3301733
1.249	.5850877	.3731265	.3305605
1.250	.5847579	.3724654	.3309472

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.251	0.5844266	0.3718044	0.3313337
1.252	.5840946	.3711441	.3317194
1.253	.5837611	.3704839	.3321050
1.254	.5834265	.3698241	.3324900
1.255	.5830910	.3691649	.3328745
1.256	.5827540	.3685058	.3332587
1.257	.5824163	.3678474	.3336422
1.258	.5820770	.3671891	.3340255
1.259	.5817368	.3665313	.3344083
1.260	.5813954	.3658738	.3347907
1.261	.5810529	.3652168	.3351725
1.262	.5807092	.3645602	.3355540
1.263	.5803646	.3639040	.3359349
1.264	.5800187	.3632481	.3363154
1.265	.5796716	.3625926	.3366955
1.266	.5793235	.3619376	.3370751
1.267	.5789742	.3612829	.3374543
1.268	.5786237	.3606285	.3378331
1.269	.5782722	.3599746	.3382113
1.270	.5779194	.3593211	.3385891
1.271	.5775658	.3586680	.3389664
1.272	.5772109	.3580153	.3393433
1.273	.5768550	.3573631	.3397196
1.274	.5764977	.3567111	.3400956
1.275	.5761397	.3560597	.3404710
1.276	.5757802	.3554085	.3408461
1.277	.5754197	.3547578	.3412206
1.278	.5750583	.3541077	.3415946
1.279	.5746955	.3534577	.3419683
1.280	.5743319	.3528084	.3423413
1.281	.5739670	.3521592	.3427140
1.282	.5736010	.3515106	.3430862
1.283	.5732339	.3508623	.3434579
1.284	.5728658	.3502146	.3438291
1.285	.5724965	.3495672	.3441999
1.286	.5721263	.3489203	.3445701
1.287	.5717550	.3482738	.3449398
1.288	.5713824	.3476276	.3453092
1.289	.5710089	.3469820	.3456780
1.290	.5706342	.3463367	.3460463
1.291	.5702583	.3456918	.3464142
1.292	.5698815	.3450473	.3467816
1.293	.5695036	.3444033	.3471485
1.294	.5691247	.3437598	.3475149
1.295	.5687446	.3431166	.3478808
1.296	.5683636	.3424740	.3482461
1.297	.5679812	.3418316	.3486111
1.298	.5675981	.3411899	.3489755
1.299	.5672137	.3405484	.3493395
1.300	.5668283	.3399074	.3497030

4187

4187

CB-11

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.301	0.5664420	0.3392669	0.3500658
1.302	.5660543	.3386267	.3504284
1.303	.5656659	.3379872	.3507902
1.304	.5652761	.3373479	.3511518
1.305	.5648854	.3367091	.3515127
1.306	.5644936	.3360707	.3518732
1.307	.5641009	.3354328	.3522332
1.308	.5637070	.3347953	.3525927
1.309	.5633122	.3341584	.3529516
1.310	.5629163	.3335219	.3533100
1.311	.5625193	.3328857	.3536680
1.312	.5621213	.3322501	.3540254
1.313	.5617222	.3316148	.3543824
1.314	.5613220	.3309800	.3547388
1.315	.5609209	.3303457	.3550948
1.316	.5605187	.3297118	.3554502
1.317	.5601156	.3290785	.3558051
1.318	.5597114	.3284455	.3561595
1.319	.5593062	.3278131	.3565133
1.320	.5588998	.3271809	.3568667
1.321	.5584926	.3265495	.3572195
1.322	.5580842	.3259183	.3575719
1.323	.5576748	.3252876	.3579237
1.324	.5572646	.3246576	.3582750
1.325	.5568531	.3240277	.3586258
1.326	.5564409	.3233986	.3589760
1.327	.5560273	.3227697	.3593259
1.328	.5556129	.3221414	.3596751
1.329	.5551974	.3215135	.3600238
1.330	.5547811	.3208862	.3603720
1.331	.5543636	.3202592	.3607197
1.332	.5539453	.3196329	.3610668
1.333	.5535259	.3190069	.3614134
1.334	.5531054	.3183814	.3617595
1.335	.5526840	.3177564	.3621050
1.336	.5522616	.3171319	.3624501
1.337	.5518381	.3165078	.3627946
1.338	.5514137	.3158842	.3631386
1.339	.5509883	.3152610	.3634821
1.340	.5505620	.3146385	.3638250
1.341	.5501346	.3140164	.3641674
1.342	.5497064	.3133948	.3645092
1.343	.5492769	.3127735	.3648506
1.344	.5488468	.3121530	.3651913
1.345	.5484154	.3115327	.3655316
1.346	.5479832	.3109130	.3658713
1.347	.5475501	.3102938	.3662105
1.348	.5471158	.3096750	.3665492
1.349	.5466808	.3090569	.3668872
1.350	.5462446	.3084391	.3672248

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.351	0.5458075	0.3078218	0.3675619
1.352	.5453694	.3072050	.3678984
1.353	.5449305	.3065888	.3682343
1.354	.5444905	.3059730	.3685697
1.355	.5440497	.3053578	.3689046
1.356	.5436079	.3047431	.3692389
1.357	.5431650	.3041288	.3695727
1.358	.5427213	.3035151	.3699059
1.359	.5422766	.3029018	.3702386
1.360	.5418308	.3022889	.3705708
1.361	.5413843	.3016767	.3709024
1.362	.5409367	.3010649	.3712335
1.363	.5404883	.3004537	.3715639
1.364	.5400389	.2998430	.3718939
1.365	.5395888	.2992329	.3722232
1.366	.5391373	.2986230	.3725522
1.367	.5386853	.2980140	.3728804
1.368	.5382321	.2974052	.3732082
1.369	.5377780	.2967970	.3735354
1.370	.5373232	.2961894	.3738620
1.371	.5368671	.2955821	.3741882
1.372	.5364105	.2949756	.3745137
1.373	.5359527	.2943694	.3748387
1.374	.5354941	.2937638	.3751631
1.375	.5350345	.2931587	.3754870
1.376	.5345741	.2925542	.3758103
1.377	.5341127	.2919501	.3761331
1.378	.5336505	.2913467	.3764553
1.379	.5331874	.2907437	.3767769
1.380	.5327233	.2901412	.3770980
1.381	.5322584	.2895393	.3774185
1.382	.5317925	.2889378	.3777385
1.383	.5313256	.2883369	.3780580
1.384	.5308580	.2877365	.3783768
1.385	.5303894	.2871366	.3786951
1.386	.5299201	.2865374	.3790128
1.387	.5294498	.2859386	.3793300
1.388	.5289787	.2853405	.3796465
1.389	.5285065	.2847426	.3799626
1.390	.5280337	.2841456	.3802780
1.391	.5275597	.2835488	.3805930
1.392	.5270850	.2829527	.3809073
1.393	.5266096	.2823573	.3812211
1.394	.5261330	.2817621	.3815343
1.395	.5256559	.2811677	.3818469
1.396	.5251776	.2805737	.3821590
1.397	.5246985	.2799803	.3824705
1.398	.5242186	.2793874	.3827815
1.399	.5237379	.2787951	.3830918
1.400	.5232562	.2782033	.3834016

4187

4187

CB-11 back

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.401	0.5227739	0.2776121	0.3837108
1.402	.5222906	.2770215	.3840195
1.403	.5218063	.2764313	.3843276
1.404	.5213214	.2758417	.3846351
1.405	.5208355	.2752527	.3849420
1.406	.5203487	.2746641	.3852484
1.407	.5198612	.2740762	.3855542
1.408	.5193727	.2734887	.3858595
1.409	.5188836	.2729020	.3861641
1.410	.5183936	.2723157	.3864681
1.411	.5179028	.2717300	.3867716
1.412	.5174109	.2711447	.3870746
1.413	.5169185	.2705602	.3873769
1.414	.5164250	.2699761	.3876787
1.415	.5159308	.2693925	.3879799
1.416	.5154360	.2688097	.3882805
1.417	.5149400	.2682272	.3885805
1.418	.5144435	.2676455	.3888799
1.419	.5139459	.2670641	.3891789
1.420	.5134477	.2664834	.3894772
1.421	.5129485	.2659033	.3897749
1.422	.5124488	.2653237	.3900720
1.423	.5119480	.2647447	.3903686
1.424	.5114467	.2641663	.3906646
1.425	.5109444	.2635885	.3909600
1.426	.5104412	.2630111	.3912548
1.427	.5099374	.2624344	.3915490
1.428	.5094328	.2618582	.3918427
1.429	.5089272	.2612826	.3921358
1.430	.5084210	.2607076	.3924283
1.431	.5079139	.2601331	.3927203
1.432	.5074061	.2595593	.3930116
1.433	.5068976	.2589860	.3933023
1.434	.5063883	.2584133	.3935924
1.435	.5058780	.2578410	.3938821
1.436	.5053672	.2572696	.3941710
1.437	.5048554	.2566985	.3944595
1.438	.5043430	.2561281	.3947473
1.439	.5038299	.2555583	.3950345
1.440	.5033157	.2549890	.3953212
1.441	.5028011	.2544204	.3956073
1.442	.5022855	.2538522	.3958928
1.443	.5017693	.2532847	.3961777
1.444	.5012521	.2527178	.3964620
1.445	.5007344	.2521514	.3967458
1.446	.5002159	.2515857	.3970289
1.447	.4996967	.2510206	.3973114
1.448	.4991767	.2504560	.3975934
1.449	.4986559	.2498920	.3978748
1.450	.4981344	.2493286	.3981556

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.451	0.4976122	0.2487658	0.3984358
1.452	.4970891	.2482035	.3987154
1.453	.4965654	.2476419	.3989945
1.454	.4960409	.2470808	.3992729
1.455	.4955158	.2465204	.3995508
1.456	.4949899	.2459605	.3998281
1.457	.4944635	.2454014	.4001047
1.458	.4939359	.2448426	.4003808
1.459	.4934080	.2442847	.4006563
1.460	.4928791	.2437271	.4009312
1.461	.4923496	.2431702	.4012056
1.462	.4918195	.2426140	.4014792
1.463	.4912884	.2420583	.4017524
1.464	.4907571	.2415033	.4020249
1.465	.4902246	.2409488	.4022969
1.466	.4896916	.2403949	.4025683
1.467	.4891578	.2398416	.4028391
1.468	.4886234	.2392890	.4031093
1.469	.4880883	.2387369	.4033789
1.470	.4875526	.2381855	.4036479
1.471	.4870161	.2376347	.4039163
1.472	.4864788	.2370844	.4041841
1.473	.4859411	.2365348	.4044513
1.474	.4854025	.2359858	.4047180
1.475	.4848632	.2354373	.4049841
1.476	.4843232	.2348895	.4052495
1.477	.4837826	.2343423	.4055144
1.478	.4832414	.2337958	.4057787
1.479	.4826995	.2332498	.4060424
1.480	.4821571	.2327045	.4063054
1.481	.4816136	.2321597	.4065680
1.482	.4810698	.2316157	.4068298
1.483	.4805252	.2310721	.4070912
1.484	.4799799	.2305292	.4073519
1.485	.4794341	.2299870	.4076120
1.486	.4788874	.2294452	.4078716
1.487	.4783404	.2289043	.4081305
1.488	.4777924	.2283638	.4083889
1.489	.4772439	.2278240	.4086466
1.490	.4766947	.2272848	.4089038
1.491	.4761450	.2267462	.4091604
1.492	.4755946	.2262083	.4094164
1.493	.4750436	.2256710	.4096718
1.494	.4744920	.2251343	.4099266
1.495	.4739396	.2245982	.4101808
1.496	.4733867	.2240628	.4104344
1.497	.4728331	.2235280	.4106874
1.498	.4722788	.2229937	.4109399
1.499	.4717240	.2224602	.4111917
1.500	.4711686	.2219272	.4114430

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.501	0.4706126	0.2213949	0.4116937
1.502	.4700559	.2208632	.4119437
1.503	.4694987	.2203323	.4121932
1.504	.4689407	.2198017	.4124421
1.505	.4683824	.2192720	.4126903
1.506	.4678232	.2187428	.4129381
1.507	.4672635	.2182143	.4131852
1.508	.4667033	.2176865	.4134317
1.509	.4661423	.2171591	.4136777
1.510	.4655810	.2166326	.4139229
1.511	.4650188	.2161065	.4141677
1.512	.4644562	.2155812	.4144119
1.513	.4638929	.2150564	.4146554
1.514	.4633291	.2145324	.4148984
1.515	.4627647	.2140089	.4151408
1.516	.4621998	.2134862	.4153825
1.517	.4616342	.2129640	.4156237
1.518	.4610681	.2124424	.4158644
1.519	.4605015	.2119216	.4161044
1.520	.4599341	.2114013	.4163438
1.521	.4593662	.2108817	.4165827
1.522	.4587979	.2103627	.4168209
1.523	.4582289	.2098444	.4170586
1.524	.4576594	.2093267	.4172956
1.525	.4570894	.2088097	.4175321
1.526	.4565189	.2082934	.4177680
1.527	.4559475	.2077775	.4180033
1.528	.4553760	.2072625	.4182380
1.529	.4548036	.2067480	.4184721
1.530	.4542308	.2062342	.4187057
1.531	.4536576	.2057211	.4189386
1.532	.4530836	.2052085	.4191710
1.533	.4525093	.2046968	.4194027
1.534	.4519342	.2041855	.4196339
1.535	.4513588	.2036749	.4198645
1.536	.4507827	.2031650	.4200945
1.537	.4502063	.2026558	.4203239
1.538	.4496292	.2021472	.4205528
1.539	.4490517	.2016393	.4207810
1.540	.4484737	.2011320	.4210086
1.541	.4478950	.2006253	.4212357
1.542	.4473160	.2001193	.4214622
1.543	.4467363	.1996140	.4216881
1.544	.4461561	.1991093	.4219134
1.545	.4455755	.1986053	.4221381
1.546	.4449944	.1981019	.4223623
1.547	.4444129	.1975992	.4225858
1.548	.4438307	.1970971	.4228088
1.549	.4432482	.1965958	.4230312
1.550	.4426649	.1960950	.4232530

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.551	0.4420815	0.1955950	0.4234742
1.552	.4414973	.1950955	.4236948
1.553	.4409128	.1945968	.4239149
1.554	.4403279	.1940987	.4241343
1.555	.4397422	.1936012	.4243533
1.556	.4391564	.1931045	.4245715
1.557	.4385698	.1926084	.4247893
1.558	.4379829	.1921129	.4250064
1.559	.4373954	.1916181	.4252230
1.560	.4368076	.1911240	.4254390
1.561	.4362193	.1906306	.4256544
1.562	.4356306	.1901378	.4258691
1.563	.4350414	.1896457	.4260834
1.564	.4344516	.1891542	.4262971
1.565	.4338615	.1886635	.4265101
1.566	.4332709	.1881733	.4267226
1.567	.4326798	.1876839	.4269346
1.568	.4320883	.1871951	.4271459
1.569	.4314964	.1867069	.4273567
1.570	.4309041	.1862195	.4275669
1.571	.4303113	.1857328	.4277765
1.572	.4297182	.1852467	.4279855
1.573	.4291243	.1847612	.4281940
1.574	.4285304	.1842765	.4284018
1.575	.4279358	.1837924	.4286091
1.576	.4273408	.1833089	.4288159
1.577	.4267456	.1828263	.4290220
1.578	.4261497	.1823441	.4292276
1.579	.4255537	.1818628	.4294326
1.580	.4249570	.1813820	.4296370
1.581	.4243600	.1809020	.4298409
1.582	.4237625	.1804226	.4300442
1.583	.4231647	.1799439	.4302469
1.584	.4225665	.1794659	.4304490
1.585	.4219680	.1789886	.4306506
1.586	.4213689	.1785119	.4308516
1.587	.4207695	.1780359	.4310520
1.588	.4201698	.1775606	.4312518
1.589	.4195696	.1770860	.4314511
1.590	.4189689	.1766119	.4316499
1.591	.4183680	.1761387	.4318480
1.592	.4177666	.1756661	.4320456
1.593	.4171650	.1751942	.4322426
1.594	.4165629	.1747229	.4324390
1.595	.4159605	.1742524	.4326349
1.596	.4153575	.1737825	.4328302
1.597	.4147545	.1733134	.4330249
1.598	.4141508	.1728448	.4332191
1.599	.4135469	.1723770	.4334128
1.600	.4129427	.1719099	.4336058

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.601	0.4123380	0.1714433	0.4337983
1.602	.4117331	.1709776	.4339902
1.603	.4111277	.1705125	.4341815
1.604	.4105220	.1700481	.4343723
1.605	.4099159	.1695843	.4345626
1.606	.4093096	.1691213	.4347522
1.607	.4087029	.1686589	.4349414
1.608	.4080959	.1681973	.4351299
1.609	.4074885	.1677363	.4353179
1.610	.4068808	.1672760	.4355053
1.611	.4062728	.1668164	.4356922
1.612	.4056644	.1663575	.4358785
1.613	.4050556	.1658992	.4360642
1.614	.4044466	.1654417	.4362494
1.615	.4038372	.1649848	.4364341
1.616	.4032276	.1645287	.4366181
1.617	.4026177	.1640732	.4368017
1.618	.4020075	.1636185	.4369846
1.619	.4013967	.1631643	.4371671
1.620	.4007860	.1627110	.4373489
1.621	.4001747	.1622582	.4375302
1.622	.3995632	.1618061	.4377110
1.623	.3989515	.1613549	.4378911
1.624	.3983393	.1609042	.4380708
1.625	.3977271	.1604543	.4382499
1.626	.3971143	.1600050	.4384284
1.627	.3965013	.1595564	.4386064
1.628	.3958880	.1591085	.4387839
1.629	.3952746	.1586613	.4389608
1.630	.3946607	.1582148	.4391371
1.631	.3940468	.1577691	.4393129
1.632	.3934324	.1573240	.4394882
1.633	.3928178	.1568796	.4396629
1.634	.3922030	.1564359	.4398370
1.635	.3915878	.1559929	.4400106
1.636	.3909723	.1555505	.4401837
1.637	.3903566	.1551089	.4403563
1.638	.3897407	.1546680	.4405282
1.639	.3891246	.1542278	.4406997
1.640	.3885081	.1537882	.4408706
1.641	.3878916	.1533495	.4410409
1.642	.3872744	.1529112	.4412108
1.643	.3866574	.1524739	.4413800
1.644	.3860399	.1520371	.4415488
1.645	.3854222	.1516010	.4417169
1.646	.3848045	.1511657	.4418846
1.647	.3841862	.1507310	.4420517
1.648	.3835680	.1502972	.4422183
1.649	.3829494	.1498639	.4423843
1.650	.3823306	.1494313	.4425499

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.651	0.3817115	0.1489994	0.4427148
1.652	.3810923	.1485683	.4428793
1.653	.3804728	.1481378	.4430432
1.654	.3798532	.1477081	.4432066
1.655	.3792333	.1472791	.4433694
1.656	.3786132	.1468507	.4435317
1.657	.3779930	.1464231	.4436935
1.658	.3773725	.1459961	.4438547
1.659	.3767517	.1455699	.4440155
1.660	.3761308	.1451443	.4441757
1.661	.3755097	.1447195	.4443353
1.662	.3748884	.1442954	.4444945
1.663	.3742669	.1438719	.4446531
1.664	.3736454	.1434492	.4448111
1.665	.3730234	.1430271	.4449687
1.666	.3724015	.1426059	.4451257
1.667	.3717792	.1421852	.4452823
1.668	.3711568	.1417653	.4454383
1.669	.3705344	.1413461	.4455937
1.670	.3699115	.1409275	.4457487
1.671	.3692888	.1405098	.4459031
1.672	.3686656	.1400926	.4460570
1.673	.3680424	.1396762	.4462104
1.674	.3674190	.1392605	.4463632
1.675	.3667955	.1388455	.4465156
1.676	.3661718	.1384312	.4466674
1.677	.3655480	.1380177	.4468187
1.678	.3649241	.1376048	.4469695
1.679	.3642999	.1371926	.4471198
1.680	.3636757	.1367812	.4472695
1.681	.3630512	.1363704	.4474188
1.682	.3624265	.1359603	.4475676
1.683	.3618019	.1355510	.4477158
1.684	.3611770	.1351423	.4478635
1.685	.3605521	.1347344	.4480107
1.686	.3599270	.1343272	.4481574
1.687	.3593019	.1339207	.4483036
1.688	.3586765	.1335149	.4484493
1.689	.3580512	.1331098	.4485944
1.690	.3574255	.1327054	.4487391
1.691	.3567998	.1323017	.4488833
1.692	.3561741	.1318987	.4490269
1.693	.3555481	.1314964	.4491701
1.694	.3549223	.1310949	.4493127
1.695	.3542960	.1306940	.4494549
1.696	.3536698	.1302938	.4495966
1.697	.3530435	.1298944	.4497377
1.698	.3524171	.1294956	.4498784
1.699	.3517906	.1290976	.4500185
1.700	.3511641	.1287003	.4501581

4187

4187

CB-12

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.701	0.3505375	0.1283037	0.4502973
1.702	.3499107	.1279078	.4504360
1.703	.3492839	.1275126	.4505741
1.704	.3486570	.1271181	.4507118
1.705	.3480299	.1267243	.4508490
1.706	.3474029	.1263312	.4509856
1.707	.3467757	.1259388	.4511218
1.708	.3461486	.1255472	.4512575
1.709	.3455213	.1251563	.4513927
1.710	.3448941	.1247661	.4515274
1.711	.3442666	.1243765	.4516617
1.712	.3436393	.1239877	.4517954
1.713	.3430117	.1235996	.4519286
1.714	.3423841	.1232122	.4520614
1.715	.3417567	.1228256	.4521936
1.716	.3411289	.1224395	.4523255
1.717	.3405013	.1220543	.4524567
1.718	.3398735	.1216697	.4525876
1.719	.3392458	.1212859	.4527179
1.720	.3386179	.1209027	.4528478
1.721	.3379901	.1205203	.4529772
1.722	.3373623	.1201385	.4531061
1.723	.3367345	.1197576	.4532345
1.724	.3361066	.1193773	.4533624
1.725	.3354786	.1189977	.4534899
1.726	.3348507	.1186188	.4536169
1.727	.3342227	.1182406	.4537434
1.728	.3335947	.1178631	.4538694
1.729	.3329667	.1174864	.4539950
1.730	.3323386	.1171103	.4541201
1.731	.3317107	.1167350	.4542447
1.732	.3310827	.1163604	.4543688
1.733	.3304548	.1159865	.4544925
1.734	.3298266	.1156133	.4546157
1.735	.3291988	.1152408	.4547384
1.736	.3285707	.1148690	.4548607
1.737	.3279427	.1144979	.4549825
1.738	.3273148	.1141276	.4551039
1.739	.3266867	.1137579	.4552248
1.740	.3260590	.1133890	.4553452
1.741	.3254310	.1130207	.4554651
1.742	.3248031	.1126532	.4555846
1.743	.3241752	.1122864	.4557036
1.744	.3235474	.1119203	.4558222
1.745	.3229196	.1115549	.4559403
1.746	.3222919	.1111902	.4560580
1.747	.3216642	.1108263	.4561751
1.748	.3210364	.1104630	.4562919
1.749	.3204088	.1101004	.4564082
1.750	.3197812	.1097386	.4565240

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.751	0.3191536	0.1093774	0.4566394
1.752	.3185261	.1090170	.4567543
1.753	.3178986	.1086573	.4568688
1.754	.3172713	.1082983	.4569828
1.755	.3166439	.1079400	.4570963
1.756	.3160168	.1075824	.4572094
1.757	.3153894	.1072255	.4573221
1.758	.3147624	.1068694	.4574343
1.759	.3141353	.1065139	.4575461
1.760	.3135083	.1061591	.4576575
1.761	.3128815	.1058051	.4577683
1.762	.3122545	.1054517	.4578788
1.763	.3116278	.1050991	.4579888
1.764	.3110011	.1047472	.4580983
1.765	.3103745	.1043960	.4582075
1.766	.3097479	.1040454	.4583161
1.767	.3091216	.1036957	.4584244
1.768	.3084952	.1033466	.4585322
1.769	.3078691	.1029982	.4586395
1.770	.3072430	.1026506	.4587465
1.771	.3066169	.1023036	.4588530
1.772	.3059910	.1019573	.4589590
1.773	.3053652	.1016118	.4590646
1.774	.3047394	.1012669	.4591698
1.775	.3041138	.1009228	.4592746
1.776	.3034883	.1005793	.4593789
1.777	.3028630	.1002366	.4594828
1.778	.3022378	.0998946	.4595863
1.779	.3016128	.0995533	.4596894
1.780	.3009876	.0992127	.4597920
1.781	.3003629	.0988729	.4598942
1.782	.2997381	.0985336	.4599960
1.783	.2991134	.0981951	.4600973
1.784	.2984891	.0978574	.4601982
1.785	.2978647	.0975203	.4602988
1.786	.2972406	.0971840	.4603988
1.787	.2966165	.0968483	.4604985
1.788	.2959926	.0965133	.4605978
1.789	.2953688	.0961791	.4606966
1.790	.2947453	.0958455	.4607950
1.791	.2941218	.0955127	.4608930
1.792	.2934986	.0951806	.4609906
1.793	.2928755	.0948492	.4610877
1.794	.2922525	.0945184	.4611845
1.795	.2916297	.0941884	.4612808
1.796	.2910071	.0938591	.4613768
1.797	.2903845	.0935304	.4614723
1.798	.2897623	.0932025	.4615674
1.799	.2891401	.0928753	.4616622
1.800	.2885183	.0925489	.4617565

4187

4187

CB-12 back

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.801	0.2878965	0.0922230	0.4618504
1.802	.2872750	.0918980	.4619438
1.803	.2866535	.0915735	.4620369
1.804	.2860324	.0912499	.4621296
1.805	.2854114	.0909269	.4622219
1.806	.2847905	.0906046	.4623138
1.807	.2841700	.0902830	.4624053
1.808	.2835495	.0899621	.4624964
1.809	.2829294	.0896420	.4625870
1.810	.2823093	.0893225	.4626773
1.811	.2816895	.0890037	.4627672
1.812	.2810699	.0886856	.4628567
1.813	.2804505	.0883682	.4629458
1.814	.2798314	.0880515	.4630346
1.815	.2792125	.0877356	.4631229
1.816	.2785938	.0874203	.4632108
1.817	.2779752	.0871057	.4632984
1.818	.2773570	.0867918	.4633855
1.819	.2767389	.0864786	.4634723
1.820	.2761210	.0861661	.4635587
1.821	.2755034	.0858543	.4636447
1.822	.2748861	.0855432	.4637303
1.823	.2742690	.0852329	.4638155
1.824	.2736521	.0849232	.4639003
1.825	.2730356	.0846142	.4639848
1.826	.2724190	.0843058	.4640689
1.827	.2718030	.0839983	.4641526
1.828	.2711870	.0836913	.4642359
1.829	.2705714	.0833851	.4643189
1.830	.2699561	.0830797	.4644014
1.831	.2693409	.0827748	.4644836
1.832	.2687261	.0824707	.4645654
1.833	.2681114	.0821673	.4646469
1.834	.2674971	.0818645	.4647280
1.835	.2668830	.0815625	.4648087
1.836	.2662692	.0812611	.4648890
1.837	.2656557	.0809605	.4649690
1.838	.2650425	.0806605	.4650486
1.839	.2644296	.0803613	.4651278
1.840	.2638168	.0800627	.4652066
1.841	.2632045	.0797648	.4652851
1.842	.2625924	.0794676	.4653633
1.843	.2619805	.0791711	.4654410
1.844	.2613690	.0788753	.4655184
1.845	.2607577	.0785802	.4655955
1.846	.2601468	.0782858	.4656722
1.847	.2595361	.0779920	.4657485
1.848	.2589259	.0776990	.4658245
1.849	.2583157	.0774066	.4659001
1.850	.2577061	.0771150	.4659753

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.851	0.2570966	0.0768240	0.4660502
1.852	.2564874	.0765337	.4661248
1.853	.2558787	.0762441	.4661989
1.854	.2552701	.0759552	.4662728
1.855	.2546621	.0756670	.4663463
1.856	.2540542	.0753794	.4664194
1.857	.2534467	.0750926	.4664922
1.858	.2528394	.0748064	.4665646
1.859	.2522326	.0745209	.4666367
1.860	.2516261	.0742362	.4667085
1.861	.2510199	.0739521	.4667799
1.862	.2504141	.0736687	.4668509
1.863	.2498085	.0733859	.4669216
1.864	.2492034	.0731039	.4669920
1.865	.2485985	.0728225	.4670620
1.866	.2479940	.0725418	.4671317
1.867	.2473898	.0722618	.4672011
1.868	.2467860	.0719825	.4672701
1.869	.2461826	.0717039	.4673388
1.870	.2455795	.0714259	.4674071
1.871	.2449769	.0711487	.4674751
1.872	.2443744	.0708720	.4675428
1.873	.2437725	.0705962	.4676101
1.874	.2431708	.0703209	.4676772
1.875	.2425695	.0700463	.4677438
1.876	.2419687	.0697725	.4678102
1.877	.2413681	.0694993	.4678762
1.878	.2407681	.0692268	.4679419
1.879	.2401682	.0689549	.4680073
1.880	.2395689	.0686838	.4680723
1.881	.2389698	.0684133	.4681370
1.882	.2383712	.0681435	.4682014
1.883	.2377730	.0678744	.4682655
1.884	.2371752	.0676060	.4683292
1.885	.2365778	.0673382	.4683927
1.886	.2359807	.0670711	.4684558
1.887	.2353841	.0668047	.4685186
1.888	.2347878	.0665389	.4685810
1.889	.2341919	.0662738	.4686432
1.890	.2335965	.0660094	.4687050
1.891	.2330014	.0657457	.4687666
1.892	.2324069	.0654826	.4688278
1.893	.2318126	.0652202	.4688887
1.894	.2312189	.0649586	.4689493
1.895	.2306254	.0646975	.4690096
1.896	.2300326	.0644371	.4690695
1.897	.2294399	.0641774	.4691292
1.898	.2288478	.0639184	.4691885
1.899	.2282562	.0636601	.4692476
1.900	.2276648	.0634023	.4693063

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.901	0.2270741	0.0631453	0.4693648
1.902	.2264837	.0628889	.4694229
1.903	.2258937	.0626333	.4694807
1.904	.2253042	.0623782	.4695383
1.905	.2247151	.0621239	.4695955
1.906	.2241264	.0618702	.4696524
1.907	.2235383	.0616172	.4697091
1.908	.2229506	.0613648	.4697654
1.909	.2223633	.0611131	.4698215
1.910	.2217765	.0608621	.4698772
1.911	.2211901	.0606117	.4699327
1.912	.2206041	.0603620	.4699878
1.913	.2200186	.0601129	.4700427
1.914	.2194336	.0598645	.4700973
1.915	.2188491	.0596168	.4701516
1.916	.2182650	.0593697	.4702056
1.917	.2176815	.0591234	.4702593
1.918	.2170982	.0588776	.4703127
1.919	.2165157	.0586325	.4703658
1.920	.2159334	.0583881	.4704187
1.921	.2153517	.0581443	.4704712
1.922	.2147706	.0579012	.4705235
1.923	.2141897	.0576587	.4705755
1.924	.2136095	.0574170	.4706272
1.925	.2130297	.0571758	.4706787
1.926	.2124504	.0569353	.4707299
1.927	.2118716	.0566955	.4707807
1.928	.2112933	.0564563	.4708313
1.929	.2107155	.0562178	.4708817
1.930	.2101383	.0559799	.4709317
1.931	.2095615	.0557427	.4709815
1.932	.2089851	.0555061	.4710310
1.933	.2084094	.0552702	.4710802
1.934	.2078341	.0550349	.4711292
1.935	.2072592	.0548003	.4711779
1.936	.2066850	.0545663	.4712263
1.937	.2061112	.0543330	.4712745
1.938	.2055381	.0541003	.4713224
1.939	.2049653	.0538683	.4713700
1.940	.2043932	.0536370	.4714174
1.941	.2038215	.0534062	.4714645
1.942	.2032504	.0531761	.4715113
1.943	.2026797	.0529467	.4715578
1.944	.2021096	.0527179	.4716042
1.945	.2015402	.0524898	.4716502
1.946	.2009711	.0522622	.4716960
1.947	.2004027	.0520354	.4717415
1.948	.1998347	.0518091	.4717868
1.949	.1992673	.0515836	.4718318
1.950	.1987004	.0513586	.4718766

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
1.951	0.1981341	0.0511343	0.4719211
1.952	.1975683	.0509107	.4719653
1.953	.1970032	.0506877	.4720093
1.954	.1964386	.0504653	.4720530
1.955	.1958744	.0502435	.4720965
1.956	.1953109	.0500225	.4721398
1.957	.1947479	.0498020	.4721828
1.958	.1941854	.0495821	.4722255
1.959	.1936236	.0493629	.4722680
1.960	.1930623	.0491444	.4723103
1.961	.1925016	.0489265	.4723523
1.962	.1919414	.0487092	.4723941
1.963	.1913819	.0484925	.4724356
1.964	.1908228	.0482765	.4724769
1.965	.1902645	.0480611	.4725179
1.966	.1897065	.0478463	.4725587
1.967	.1891492	.0476322	.4725993
1.968	.1885926	.0474187	.4726396
1.969	.1880364	.0472058	.4726797
1.970	.1874810	.0469936	.4727195
1.971	.1869260	.0467819	.4727592
1.972	.1863716	.0465709	.4727985
1.973	.1858179	.0463605	.4728377
1.974	.1852647	.0461508	.4728766
1.975	.1847122	.0459417	.4729153
1.976	.1841603	.0457332	.4729537
1.977	.1836089	.0455253	.4729920
1.978	.1830581	.0453181	.4730300
1.979	.1825080	.0451115	.4730677
1.980	.1819585	.0449055	.4731053
1.981	.1814095	.0447001	.4731426
1.982	.1808612	.0444953	.4731797
1.983	.1803135	.0442912	.4732165
1.984	.1797664	.0440876	.4732532
1.985	.1792199	.0438847	.4732896
1.986	.1786742	.0436825	.4733258
1.987	.1781288	.0434808	.4733618
1.988	.1775843	.0432797	.4733975
1.989	.1770403	.0430793	.4734331
1.990	.1764969	.0428795	.4734684
1.991	.1759543	.0426803	.4735035
1.992	.1754121	.0424816	.4735384
1.993	.1748708	.0422837	.4735731
1.994	.1743299	.0420863	.4736075
1.995	.1737897	.0418895	.4736418
1.996	.1732501	.0416934	.4736758
1.997	.1727113	.0414978	.4737096
1.998	.1721730	.0413029	.4737432
1.999	.1716355	.0411086	.4737766
2.000	.1710985	.0409149	.4738098

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.001	0.1705622	0.0407217	0.4738428
2.002	.1700266	.0405292	.4738756
2.003	.1694916	.0403373	.4739082
2.004	.1689572	.0401460	.4739406
2.005	.1684235	.0399553	.4739727
2.006	.1678905	.0397652	.4740047
2.007	.1673581	.0395758	.4740365
2.008	.1668264	.0393869	.4740680
2.009	.1662955	.0391986	.4740994
2.010	.1657650	.0390109	.4741306
2.011	.1652354	.0388238	.4741615
2.012	.1647063	.0386373	.4741923
2.013	.1641780	.0384514	.4742229
2.014	.1636504	.0382662	.4742532
2.015	.1631233	.0380814	.4742834
2.016	.1625971	.0378974	.4743134
2.017	.1620714	.0377138	.4743432
2.018	.1615465	.0375309	.4743728
2.019	.1610222	.0373486	.4744022
2.020	.1604986	.0371669	.4744314
2.021	.1599757	.0369857	.4744604
2.022	.1594536	.0368052	.4744893
2.023	.1589321	.0366252	.4745179
2.024	.1584113	.0364459	.4745464
2.025	.1578912	.0362671	.4745746
2.026	.1573718	.0360889	.4746027
2.027	.1568530	.0359113	.4746306
2.028	.1563350	.0357343	.4746584
2.029	.1558177	.0355578	.4746859
2.030	.1553011	.0353820	.4747132
2.031	.1547852	.0352067	.4747404
2.032	.1542701	.0350320	.4747674
2.033	.1537556	.0348579	.4747942
2.034	.1532419	.0346844	.4748209
2.035	.1527288	.0345115	.4748473
2.036	.1522165	.0343391	.4748736
2.037	.1517049	.0341673	.4748997
2.038	.1511940	.0339961	.4749256
2.039	.1506839	.0338255	.4749514
2.040	.1501744	.0336554	.4749770
2.041	.1496657	.0334860	.4750024
2.042	.1491576	.0333171	.4750276
2.043	.1486504	.0331487	.4750527
2.044	.1481439	.0329810	.4750776
2.045	.1476381	.0328138	.4751023
2.046	.1471331	.0326472	.4751268
2.047	.1466287	.0324812	.4751512
2.048	.1461252	.0323157	.4751754
2.049	.1456223	.0321508	.4751995
2.050	.1451202	.0319865	.4752234

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.051	0.1446188	0.0318227	0.4752471
2.052	.1441182	.0316595	.4752707
2.053	.1436184	.0314969	.4752941
2.054	.1431192	.0313348	.4753173
2.055	.1426209	.0311733	.4753404
2.056	.1421232	.0310123	.4753633
2.057	.1416264	.0308520	.4753860
2.058	.1411303	.0306921	.4754086
2.059	.1406349	.0305329	.4754311
2.060	.1401404	.0303742	.4754534
2.061	.1396465	.0302160	.4754755
2.062	.1391535	.0300585	.4754975
2.063	.1386611	.0299014	.4755193
2.064	.1381696	.0297450	.4755409
2.065	.1376788	.0295890	.4755624
2.066	.1371888	.0294337	.4755838
2.067	.1366995	.0292789	.4756050
2.068	.1362111	.0291246	.4756260
2.069	.1357234	.0289709	.4756469
2.070	.1352365	.0288178	.4756677
2.071	.1347504	.0286652	.4756883
2.072	.1342650	.0285131	.4757087
2.073	.1337804	.0283616	.4757290
2.074	.1332966	.0282107	.4757492
2.075	.1328136	.0280603	.4757692
2.076	.1323313	.0279104	.4757891
2.077	.1318499	.0277611	.4758088
2.078	.1313693	.0276123	.4758284
2.079	.1308893	.0274641	.4758478
2.080	.1304103	.0273164	.4758671
2.081	.1299320	.0271692	.4758863
2.082	.1294545	.0270226	.4759053
2.083	.1289779	.0268766	.4759242
2.084	.1285019	.0267310	.4759429
2.085	.1280269	.0265860	.4759615
2.086	.1275525	.0264416	.4759799
2.087	.1270790	.0262976	.4759983
2.088	.1266063	.0261542	.4760165
2.089	.1261344	.0260114	.4760345
2.090	.1256633	.0258691	.4760524
2.091	.1251931	.0257273	.4760702
2.092	.1247236	.0255860	.4760879
2.093	.1242549	.0254453	.4761054
2.094	.1237871	.0253051	.4761228
2.095	.1233201	.0251654	.4761400
2.096	.1228538	.0250263	.4761572
2.097	.1223884	.0248877	.4761742
2.098	.1219238	.0247496	.4761910
2.099	.1214601	.0246120	.4762078
2.100	.1209971	.0244750	.4762244

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.101	0.1205351	0.0243385	0.4762409
2.102	.1200737	.0242025	.4762572
2.103	.1196133	.0240670	.4762734
2.104	.1191536	.0239320	.4762896
2.105	.1186948	.0237976	.4763055
2.106	.1182368	.0236637	.4763214
2.107	.1177796	.0235303	.4763371
2.108	.1173233	.0233974	.4763528
2.109	.1168678	.0232650	.4763683
2.110	.1164131	.0231332	.4763836
2.111	.1159593	.0230018	.4763989
2.112	.1155063	.0228710	.4764140
2.113	.1150542	.0227407	.4764291
2.114	.1146029	.0226109	.4764440
2.115	.1141524	.0224816	.4764588
2.116	.1137028	.0223528	.4764734
2.117	.1132540	.0222245	.4764880
2.118	.1128061	.0220968	.4765024
2.119	.1123590	.0219695	.4765168
2.120	.1119127	.0218427	.4765310
2.121	.1114673	.0217165	.4765451
2.122	.1110228	.0215907	.4765591
2.123	.1105791	.0214655	.4765729
2.124	.1101363	.0213407	.4765867
2.125	.1096943	.0212164	.4766004
2.126	.1092532	.0210927	.4766139
2.127	.1088129	.0209694	.4766274
2.128	.1083735	.0208467	.4766407
2.129	.1079350	.0207244	.4766539
2.130	.1074973	.0206027	.4766670
2.131	.1070605	.0204814	.4766800
2.132	.1066245	.0203606	.4766929
2.133	.1061894	.0202403	.4767057
2.134	.1057552	.0201205	.4767184
2.135	.1053218	.0200012	.4767310
2.136	.1048893	.0198824	.4767435
2.137	.1044577	.0197641	.4767559
2.138	.1040270	.0196463	.4767682
2.139	.1035971	.0195289	.4767804
2.140	.1031681	.0194120	.4767924
2.141	.1027399	.0192956	.4768044
2.142	.1023126	.0191797	.4768163
2.143	.1018863	.0190643	.4768281
2.144	.1014607	.0189494	.4768398
2.145	.1010361	.0188349	.4768514
2.146	.1006124	.0187210	.4768629
2.147	.1001895	.0186075	.4768742
2.148	.0997675	.0184944	.4768855
2.149	.0993464	.0183819	.4768967
2.150	.0989262	.0182698	.4769079

4187

CB-L3

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.151	0.0985068	0.0181582	0.4769189
2.152	.0980884	.0180471	.4769298
2.153	.0976708	.0179365	.4769406
2.154	.0972542	.0178263	.4769514
2.155	.0968384	.0177166	.4769620
2.156	.0964235	.0176074	.4769726
2.157	.0960095	.0174986	.4769830
2.158	.0955964	.0173903	.4769934
2.159	.0951842	.0172825	.4770037
2.160	.0947729	.0171751	.4770139
2.161	.0943625	.0170682	.4770240
2.162	.0939529	.0169618	.4770340
2.163	.0935443	.0168558	.4770440
2.164	.0931366	.0167503	.4770538
2.165	.0927297	.0166452	.4770636
2.166	.0923238	.0165406	.4770733
2.167	.0919187	.0164365	.4770828
2.168	.0915146	.0163328	.4770924
2.169	.0911114	.0162296	.4771018
2.170	.0907091	.0161268	.4771111
2.171	.0903077	.0160245	.4771204
2.172	.0899072	.0159226	.4771296
2.173	.0895076	.0158212	.4771387
2.174	.0891089	.0157203	.4771477
2.175	.0887111	.0156198	.4771566
2.176	.0883142	.0155197	.4771655
2.177	.0879183	.0154201	.4771743
2.178	.0875232	.0153209	.4771830
2.179	.0871291	.0152222	.4771916
2.180	.0867359	.0151239	.4772001
2.181	.0863436	.0150261	.4772086
2.182	.0859522	.0149287	.4772170
2.183	.0855617	.0148318	.4772253
2.184	.0851722	.0147353	.4772335
2.185	.0847835	.0146392	.4772417
2.186	.0843958	.0145436	.4772498
2.187	.0840090	.0144484	.4772578
2.188	.0836231	.0143537	.4772657
2.189	.0832382	.0142594	.4772736
2.190	.0828541	.0141655	.4772814
2.191	.0824710	.0140720	.4772891
2.192	.0820889	.0139790	.4772968
2.193	.0817076	.0138864	.4773044
2.194	.0813272	.0137943	.4773119
2.195	.0809479	.0137026	.4773193
2.196	.0805694	.0136113	.4773267
2.197	.0801918	.0135204	.4773340
2.198	.0798152	.0134300	.4773412
2.199	.0794395	.0133400	.4773484
2.200	.0790648	.0132504	.4773555

4187

4187

CB-13 back

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.201	0.0786909	0.0131612	0.4773625
2.202	.0783180	.0130725	.4773695
2.203	.0779460	.0129841	.4773764
2.204	.0775749	.0128962	.4773833
2.205	.0772048	.0128087	.4773900
2.206	.0768357	.0127217	.4773967
2.207	.0764675	.0126350	.4774034
2.208	.0761001	.0125488	.4774100
2.209	.0757338	.0124630	.4774165
2.210	.0753684	.0123776	.4774229
2.211	.0750038	.0122926	.4774293
2.212	.0746403	.0122080	.4774356
2.213	.0742776	.0121238	.4774419
2.214	.0739160	.0120401	.4774481
2.215	.0735552	.0119567	.4774543
2.216	.0731955	.0118738	.4774604
2.217	.0728366	.0117912	.4774664
2.218	.0724787	.0117091	.4774724
2.219	.0721217	.0116274	.4774783
2.220	.0717657	.0115460	.4774841
2.221	.0714106	.0114651	.4774899
2.222	.0710564	.0113846	.4774956
2.223	.0707033	.0113045	.4775013
2.224	.0703510	.0112247	.4775069
2.225	.0699997	.0111454	.4775125
2.226	.0696493	.0110665	.4775180
2.227	.0692999	.0109879	.4775235
2.228	.0689514	.0109098	.4775289
2.229	.0686039	.0108321	.4775342
2.230	.0682574	.0107547	.4775395
2.231	.0679117	.0106777	.4775448
2.232	.0675671	.0106012	.4775500
2.233	.0672233	.0105250	.4775551
2.234	.0668806	.0104492	.4775602
2.235	.0665387	.0103738	.4775652
2.236	.0661978	.0102987	.4775702
2.237	.0658579	.0102241	.4775751
2.238	.0655190	.0101498	.4775800
2.239	.0651810	.0100760	.4775848
2.240	.0648439	.0100025	.4775896
2.241	.0645078	.0099294	.4775943
2.242	.0641726	.0098566	.4775990
2.243	.0638384	.0097843	.4776036
2.244	.0635052	.0097123	.4776082
2.245	.0631728	.0096407	.4776128
2.246	.0628415	.0095695	.4776172
2.247	.0625111	.0094986	.4776217
2.248	.0621817	.0094281	.4776261
2.249	.0618532	.0093580	.4776304
2.250	.0615257	.0092883	.4776347

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.251	0.0611991	0.0092189	0.4776390
2.252	.0608735	.0091499	.4776432
2.253	.0605489	.0090813	.4776474
2.254	.0602252	.0090130	.4776515
2.255	.0599025	.0089451	.4776556
2.256	.0595807	.0088776	.4776596
2.257	.0592598	.0088104	.4776636
2.258	.0589400	.0087436	.4776675
2.259	.0586210	.0086772	.4776714
2.260	.0583031	.0086111	.4776753
2.261	.0579861	.0085454	.4776791
2.262	.0576701	.0084800	.4776829
2.263	.0573550	.0084150	.4776866
2.264	.0570410	.0083503	.4776903
2.265	.0567278	.0082860	.4776940
2.266	.0564156	.0082221	.4776976
2.267	.0561044	.0081585	.4777012
2.268	.0557941	.0080952	.4777047
2.269	.0554848	.0080323	.4777082
2.270	.0551764	.0079698	.4777117
2.271	.0548691	.0079076	.4777151
2.272	.0545626	.0078457	.4777185
2.273	.0542572	.0077842	.4777219
2.274	.0539527	.0077231	.4777252
2.275	.0536492	.0076622	.4777284
2.276	.0533466	.0076018	.4777317
2.277	.0530449	.0075416	.4777349
2.278	.0527443	.0074818	.4777380
2.279	.0524446	.0074224	.4777412
2.280	.0521458	.0073633	.4777443
2.281	.0518481	.0073045	.4777473
2.282	.0515513	.0072460	.4777503
2.283	.0512554	.0071879	.4777533
2.284	.0509605	.0071302	.4777563
2.285	.0506667	.0070727	.4777592
2.286	.0503736	.0070156	.4777621
2.287	.0500817	.0069588	.4777649
2.288	.0497906	.0069024	.4777678
2.289	.0495005	.0068463	.4777705
2.290	.0492115	.0067905	.4777733
2.291	.0489233	.0067350	.4777760
2.292	.0486361	.0066799	.4777787
2.293	.0483499	.0066250	.4777814
2.294	.0480646	.0065705	.4777840
2.295	.0477803	.0065164	.4777866
2.296	.0474969	.0064625	.4777892
2.297	.0472145	.0064090	.4777917
2.298	.0469331	.0063558	.4777942
2.299	.0466527	.0063029	.4777967
2.300	.0463732	.0062503	.4777991

4187

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.301	0.0460946	0.0061980	0.4778016
2.302	.0458171	.0061461	.4778039
2.303	.0455404	.0060944	.4778063
2.304	.0452648	.0060431	.4778086
2.305	.0449901	.0059921	.4778109
2.306	.0447163	.0059414	.4778132
2.307	.0444436	.0058910	.4778155
2.308	.0441718	.0058409	.4778177
2.309	.0439009	.0057911	.4778199
2.310	.0436310	.0057417	.4778220
2.311	.0433620	.0056925	.4778242
2.312	.0430941	.0056436	.4778263
2.313	.0428271	.0055951	.4778284
2.314	.0425610	.0055468	.4778304
2.315	.0422959	.0054988	.4778325
2.316	.0420317	.0054512	.4778345
2.317	.0417686	.0054038	.4778365
2.318	.0415063	.0053567	.4778384
2.319	.0412450	.0053100	.4778404
2.320	.0409847	.0052635	.4778423
2.321	.0407254	.0052173	.4778442
2.322	.0404670	.0051714	.4778460
2.323	.0402095	.0051258	.4778479
2.324	.0399530	.0050805	.4778497
2.325	.0396975	.0050355	.4778515
2.326	.0394429	.0049908	.4778532
2.327	.0391893	.0049463	.4778550
2.328	.0389366	.0049022	.4778567
2.329	.0386849	.0048583	.4778584
2.330	.0384341	.0048147	.4778601
2.331	.0381843	.0047714	.4778618
2.332	.0379354	.0047284	.4778634
2.333	.0376875	.0046856	.4778650
2.334	.0374405	.0046432	.4778666
2.335	.0371945	.0046010	.4778682
2.336	.0369495	.0045591	.4778697
2.337	.0367054	.0045174	.4778713
2.338	.0364622	.0044761	.4778728
2.339	.0362200	.0044350	.4778743
2.340	.0359787	.0043942	.4778757
2.341	.0357384	.0043537	.4778772
2.342	.0354991	.0043134	.4778786
2.343	.0352606	.0042734	.4778800
2.344	.0350232	.0042337	.4778814
2.345	.0347867	.0041942	.4778828
2.346	.0345511	.0041550	.4778842
2.347	.0343165	.0041161	.4778855
2.348	.0340828	.0040774	.4778868
2.349	.0338500	.0040390	.4778881
2.350	.0336182	.0040009	.4778894

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.351	0.0333873	0.0039630	0.4778907
2.352	.0331574	.0039254	.4778919
2.353	.0329284	.0038881	.4778932
2.354	.0327004	.0038510	.4778944
2.355	.0324733	.0038141	.4778956
2.356	.0322472	.0037776	.4778968
2.357	.0320219	.0037412	.4778979
2.358	.0317977	.0037052	.4778991
2.359	.0315743	.0036693	.4779002
2.360	.0313519	.0036338	.4779013
2.361	.0311305	.0035985	.4779024
2.362	.0309099	.0035634	.4779035
2.363	.0306903	.0035286	.4779046
2.364	.0304716	.0034940	.4779057
2.365	.0302539	.0034597	.4779067
2.366	.0300371	.0034256	.4779077
2.367	.0298213	.0033918	.4779087
2.368	.0296064	.0033582	.4779097
2.369	.0293923	.0033248	.4779107
2.370	.0291793	.0032917	.4779117
2.371	.0289671	.0032589	.4779127
2.372	.0287559	.0032262	.4779136
2.373	.0285456	.0031938	.4779145
2.374	.0283362	.0031617	.4779154
2.375	.0281278	.0031298	.4779163
2.376	.0279203	.0030981	.4779172
2.377	.0277138	.0030667	.4779181
2.378	.0275081	.0030354	.4779190
2.379	.0273033	.0030045	.4779198
2.380	.0270995	.0029737	.4779206
2.381	.0268966	.0029432	.4779215
2.382	.0266946	.0029129	.4779223
2.383	.0264936	.0028828	.4779231
2.384	.0262934	.0028530	.4779239
2.385	.0260942	.0028234	.4779246
2.386	.0258959	.0027940	.4779254
2.387	.0256985	.0027648	.4779262
2.388	.0255020	.0027359	.4779269
2.389	.0253064	.0027072	.4779276
2.390	.0251118	.0026787	.4779283
2.391	.0249180	.0026504	.4779291
2.392	.0247252	.0026224	.4779298
2.393	.0245333	.0025945	.4779304
2.394	.0243423	.0025669	.4779311
2.395	.0241521	.0025395	.4779318
2.396	.0239629	.0025123	.4779324
2.397	.0237746	.0024853	.4779331
2.398	.0235873	.0024585	.4779337
2.399	.0234008	.0024320	.4779343
2.400	.0232152	.0024056	.4779349

4181

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.401	0.0230305	0.0023795	0.4779355
2.402	.0228467	.0023536	.4779361
2.403	.0226638	.0023278	.4779367
2.404	.0224818	.0023023	.4779373
2.405	.0223007	.0022770	.4779379
2.406	.0221205	.0022519	.4779384
2.407	.0219412	.0022270	.4779390
2.408	.0217628	.0022023	.4779395
2.409	.0215853	.0021778	.4779400
2.410	.0214086	.0021535	.4779406
2.411	.0212329	.0021294	.4779411
2.412	.0210580	.0021055	.4779416
2.413	.0208841	.0020818	.4779421
2.414	.0207110	.0020583	.4779426
2.415	.0205388	.0020350	.4779431
2.416	.0203675	.0020118	.4779435
2.417	.0201971	.0019889	.4779440
2.418	.0200275	.0019662	.4779445
2.419	.0198588	.0019436	.4779449
2.420	.0196910	.0019213	.4779453
2.421	.0195241	.0018991	.4779458
2.422	.0193581	.0018771	.4779462
2.423	.0191929	.0018553	.4779466
2.424	.0190286	.0018337	.4779470
2.425	.0188652	.0018123	.4779474
2.426	.0187027	.0017911	.4779478
2.427	.0185410	.0017700	.4779482
2.428	.0183802	.0017492	.4779486
2.429	.0182202	.0017285	.4779490
2.430	.0180612	.0017080	.4779494
2.431	.0179029	.0016876	.4779497
2.432	.0177456	.0016675	.4779501
2.433	.0175891	.0016475	.4779505
2.434	.0174335	.0016277	.4779508
2.435	.0172787	.0016081	.4779511
2.436	.0171248	.0015887	.4779515
2.437	.0169717	.0015694	.4779518
2.438	.0168195	.0015503	.4779521
2.439	.0166682	.0015314	.4779524
2.440	.0165177	.0015126	.4779528
2.441	.0163680	.0014940	.4779531
2.442	.0162192	.0014756	.4779534
2.443	.0160712	.0014574	.4779537
2.444	.0159241	.0014393	.4779539
2.445	.0157779	.0014213	.4779542
2.446	.0156325	.0014036	.4779545
2.447	.0154879	.0013860	.4779548
2.448	.0153441	.0013686	.4779550
2.449	.0152012	.0013513	.4779553
2.450	.0150591	.0013342	.4779556

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.451	0.0149179	0.0013173	0.4779558
2.452	.0147775	.0013005	.4779561
2.453	.0146379	.0012839	.4779563
2.454	.0144992	.0012674	.4779565
2.455	.0143613	.0012511	.4779568
2.456	.0142242	.0012349	.4779570
2.457	.0140879	.0012189	.4779572
2.458	.0139525	.0012031	.4779575
2.459	.0138179	.0011874	.4779577
2.460	.0136841	.0011718	.4779579
2.461	.0135511	.0011564	.4779581
2.462	.0134189	.0011412	.4779583
2.463	.0132876	.0011261	.4779585
2.464	.0131570	.0011111	.4779587
2.465	.0130273	.0010963	.4779589
2.466	.0128984	.0010817	.4779591
2.467	.0127703	.0010672	.4779593
2.468	.0126430	.0010528	.4779595
2.469	.0125165	.0010386	.4779596
2.470	.0123908	.0010245	.4779598
2.471	.0122659	.0010106	.4779600
2.472	.0121418	.0009968	.4779602
2.473	.0120185	.0009831	.4779603
2.474	.0118960	.0009696	.4779605
2.475	.0117743	.0009562	.4779606
2.476	.0116534	.0009430	.4779608
2.477	.0115332	.0009299	.4779610
2.478	.0114139	.0009169	.4779611
2.479	.0112954	.0009041	.4779613
2.480	.0111776	.0008914	.4779614
2.481	.0110606	.0008788	.4779615
2.482	.0109444	.0008664	.4779617
2.483	.0108290	.0008541	.4779618
2.484	.0107143	.0008419	.4779619
2.485	.0106005	.0008298	.4779621
2.486	.0104874	.0008179	.4779622
2.487	.0103750	.0008061	.4779623
2.488	.0102635	.0007945	.4779624
2.489	.0101527	.0007829	.4779626
2.490	.0100427	.0007715	.4779627
2.491	.0099334	.0007602	.4779628
2.492	.0098249	.0007491	.4779629
2.493	.0097172	.0007380	.4779630
2.494	.0096102	.0007271	.4779631
2.495	.0095040	.0007163	.4779632
2.496	.0093985	.0007056	.4779633
2.497	.0092938	.0006950	.4779634
2.498	.0091898	.0006846	.4779635
2.499	.0090866	.0006743	.4779636
2.500	.0089841	.0006640	.4779637

4187

CB-14

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.501	0.0088824	0.0006539	0.4779638
2.502	.0087814	.0006440	.4779639
2.503	.0086812	.0006341	.4779640
2.504	.0085817	.0006243	.4779640
2.505	.0084829	.0006147	.4779641
2.506	.0083849	.0006052	.4779642
2.507	.0082875	.0005957	.4779643
2.508	.0081910	.0005864	.4779644
2.509	.0080951	.0005772	.4779644
2.510	.0080000	.0005681	.4779645
2.511	.0079056	.0005591	.4779646
2.512	.0078119	.0005502	.4779646
2.513	.0077189	.0005415	.4779647
2.514	.0076266	.0005328	.4779648
2.515	.0075351	.0005242	.4779648
2.516	.0074443	.0005158	.4779649
2.517	.0073542	.0005074	.4779650
2.518	.0072647	.0004991	.4779650
2.519	.0071760	.0004910	.4779651
2.520	.0070880	.0004829	.4779651
2.521	.0070007	.0004749	.4779652
2.522	.0069141	.0004671	.4779653
2.523	.0068282	.0004593	.4779653
2.524	.0067430	.0004516	.4779654
2.525	.0066585	.0004441	.4779654
2.526	.0065746	.0004366	.4779655
2.527	.0064915	.0004292	.4779655
2.528	.0064090	.0004219	.4779656
2.529	.0063272	.0004147	.4779656
2.530	.0062461	.0004076	.4779656
2.531	.0061657	.0004006	.4779657
2.532	.0060860	.0003937	.4779657
2.533	.0060069	.0003868	.4779658
2.534	.0059285	.0003801	.4779658
2.535	.0058507	.0003734	.4779658
2.536	.0057737	.0003669	.4779659
2.537	.0056973	.0003604	.4779659
2.538	.0056215	.0003540	.4779660
2.539	.0055464	.0003477	.4779660
2.540	.0054720	.0003414	.4779660
2.541	.0053982	.0003353	.4779661
2.542	.0053251	.0003292	.4779661
2.543	.0052526	.0003232	.4779661
2.544	.0051808	.0003174	.4779662
2.545	.0051096	.0003115	.4779662
2.546	.0050390	.0003058	.4779662
2.547	.0049691	.0003001	.4779662
2.548	.0048999	.0002946	.4779663
2.549	.0048312	.0002891	.4779663
2.550	.0047632	.0002836	.4779663

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.551	0.0046959	0.0002783	0.4779664
2.552	.0046291	.0002730	.4779664
2.553	.0045630	.0002678	.4779664
2.554	.0044975	.0002627	.4779664
2.555	.0044326	.0002577	.4779664
2.556	.0043683	.0002527	.4779665
2.557	.0043047	.0002478	.4779665
2.558	.0042417	.0002430	.4779665
2.559	.0041792	.0002382	.4779665
2.560	.0041174	.0002335	.4779665
2.561	.0040562	.0002289	.4779666
2.562	.0039955	.0002243	.4779666
2.563	.0039355	.0002199	.4779666
2.564	.0038761	.0002154	.4779666
2.565	.0038173	.0002111	.4779666
2.566	.0037590	.0002068	.4779667
2.567	.0037014	.0002026	.4779667
2.568	.0036443	.0001984	.4779667
2.569	.0035878	.0001943	.4779667
2.570	.0035319	.0001903	.4779667
2.571	.0034766	.0001864	.4779667
2.572	.0034218	.0001825	.4779667
2.573	.0033676	.0001786	.4779668
2.574	.0033140	.0001749	.4779668
2.575	.0032610	.0001711	.4779668
2.576	.0032085	.0001675	.4779668
2.577	.0031566	.0001639	.4779668
2.578	.0031052	.0001603	.4779668
2.579	.0030544	.0001569	.4779668
2.580	.0030041	.0001534	.4779668
2.581	.0029544	.0001501	.4779668
2.582	.0029053	.0001468	.4779668
2.583	.0028566	.0001435	.4779669
2.584	.0028086	.0001403	.4779669
2.585	.0027610	.0001371	.4779669
2.586	.0027140	.0001341	.4779669
2.587	.0026676	.0001310	.4779669
2.588	.0026216	.0001280	.4779669
2.589	.0025762	.0001251	.4779669
2.590	.0025313	.0001222	.4779669
2.591	.0024870	.0001194	.4779669
2.592	.0024432	.0001166	.4779669
2.593	.0023998	.0001138	.4779670
2.594	.0023570	.0001112	.4779670
2.595	.0023147	.0001085	.4779670
2.596	.0022729	.0001059	.4779670
2.597	.0022316	.0001034	.4779670
2.598	.0021909	.0001009	.4779670
2.599	.0021506	.0000984	.4779670
2.600	.0021108	.0000960	.4779670

4187

4187

CB-14 back

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.601	0.0020715	0.0000936	0.4779670
2.602	.0020327	.0000913	.4779670
2.603	.0019944	.0000890	.4779670
2.604	.0019565	.0000868	.4779670
2.605	.0019192	.0000846	.4779670
2.606	.0018823	.0000825	.4779670
2.607	.0018459	.0000804	.4779670
2.608	.0018100	.0000783	.4779670
2.609	.0017745	.0000763	.4779670
2.610	.0017396	.0000743	.4779670
2.611	.0017050	.0000723	.4779670
2.612	.0016710	.0000704	.4779670
2.613	.0016374	.0000686	.4779670
2.614	.0016042	.0000667	.4779670
2.615	.0015715	.0000649	.4779670
2.616	.0015393	.0000632	.4779670
2.617	.0015075	.0000615	.4779670
2.618	.0014761	.0000598	.4779670
2.619	.0014452	.0000581	.4779670
2.620	.0014147	.0000565	.4779670
2.621	.0013847	.0000549	.4779670
2.622	.0013551	.0000534	.4779670
2.623	.0013259	.0000519	.4779670
2.624	.0012971	.0000504	.4779670
2.625	.0012688	.0000489	.4779670
2.626	.0012409	.0000475	.4779670
2.627	.0012134	.0000461	.4779670
2.628	.0011863	.0000448	.4779670
2.629	.0011596	.0000434	.4779670
2.630	.0011333	.0000421	.4779670
2.631	.0011075	.0000409	.4779670
2.632	.0010820	.0000396	.4779670
2.633	.0010569	.0000384	.4779670
2.634	.0010322	.0000372	.4779670
2.635	.0010079	.0000361	.4779670
2.636	.0009840	.0000350	.4779670
2.637	.0009605	.0000339	.4779670
2.638	.0009374	.0000328	.4779670
2.639	.0009146	.0000318	.4779670
2.640	.0008923	.0000307	.4779670
2.641	.0008703	.0000297	.4779670
2.642	.0008486	.0000288	.4779670
2.643	.0008274	.0000278	.4779670
2.644	.0008065	.0000269	.4779670
2.645	.0007859	.0000260	.4779670
2.646	.0007657	.0000251	.4779670
2.647	.0007459	.0000243	.4779670
2.648	.0007264	.0000234	.4779670
2.649	.0007073	.0000226	.4779670
2.650	.0006885	.0000218	.4779670

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.651	0.0006700	0.0000211	0.4779670
2.652	.0006519	.0000203	.4779670
2.653	.0006341	.0000196	.4779670
2.654	.0006167	.0000189	.4779670
2.655	.0005996	.0000182	.4779670
2.656	.0005828	.0000175	.4779670
2.657	.0005663	.0000169	.4779670
2.658	.0005501	.0000162	.4779670
2.659	.0005343	.0000156	.4779670
2.660	.0005188	.0000150	.4779670
2.661	.0005036	.0000145	.4779670
2.662	.0004887	.0000139	.4779670
2.663	.0004740	.0000134	.4779670
2.664	.0004597	.0000128	.4779670
2.665	.0004457	.0000123	.4779670
2.666	.0004320	.0000118	.4779670
2.667	.0004186	.0000113	.4779670
2.668	.0004054	.0000109	.4779670
2.669	.0003926	.0000104	.4779670
2.670	.0003800	.0000100	.4779670
2.671	.0003677	.0000096	.4779670
2.672	.0003557	.0000092	.4779670
2.673	.0003439	.0000088	.4779670
2.674	.0003325	.0000084	.4779670
2.675	.0003212	.0000080	.4779670
2.676	.0003103	.0000076	.4779670
2.677	.0002996	.0000073	.4779670
2.678	.0002891	.0000070	.4779670
2.679	.0002789	.0000066	.4779670
2.680	.0002690	.0000063	.4779670
2.681	.0002593	.0000060	.4779670
2.682	.0002498	.0000058	.4779670
2.683	.0002406	.0000055	.4779670
2.684	.0002316	.0000052	.4779670
2.685	.0002229	.0000050	.4779670
2.686	.0002143	.0000047	.4779670
2.687	.0002060	.0000045	.4779670
2.688	.0001980	.0000042	.4779670
2.689	.0001901	.0000040	.4779670
2.690	.0001825	.0000038	.4779670
2.691	.0001750	.0000036	.4779670
2.692	.0001678	.0000034	.4779670
2.693	.0001608	.0000032	.4779670
2.694	.0001540	.0000031	.4779670
2.695	.0001474	.0000029	.4779670
2.696	.0001410	.0000027	.4779670
2.697	.0001348	.0000026	.4779670
2.698	.0001288	.0000024	.4779670
2.699	.0001229	.0000023	.4779670
2.700	.0001173	.0000021	.4779670

4187

TABLE II. - Continued. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.701	0.0001118	0.0000020	0.4779670
2.702	.0001065	.0000019	.4779670
2.703	.0001014	.0000018	.4779670
2.704	.0000964	.0000017	.4779670
2.705	.0000917	.0000015	.4779670
2.706	.0000871	.0000014	.4779670
2.707	.0000826	.0000013	.4779670
2.708	.0000783	.0000013	.4779670
2.709	.0000742	.0000012	.4779670
2.710	.0000702	.0000011	.4779670
2.711	.0000664	.0000010	.4779670
2.712	.0000627	.0000009	.4779670
2.713	.0000591	.0000009	.4779670
2.714	.0000557	.0000008	.4779670
2.715	.0000525	.0000007	.4779670
2.716	.0000494	.0000007	.4779670
2.717	.0000464	.0000006	.4779670
2.718	.0000435	.0000006	.4779670
2.719	.0000407	.0000005	.4779670
2.720	.0000381	.0000005	.4779670
2.721	.0000356	.0000004	.4779670
2.722	.0000332	.0000004	.4779670
2.723	.0000310	.0000004	.4779670
2.724	.0000288	.0000003	.4779670
2.725	.0000267	.0000003	.4779670
2.726	.0000248	.0000003	.4779670
2.727	.0000229	.0000003	.4779670
2.728	.0000212	.0000002	.4779670
2.729	.0000195	.0000002	.4779670
2.730	.0000179	.0000002	.4779670
2.731	.0000165	.0000002	.4779670
2.732	.0000151	.0000001	.4779670
2.733	.0000138	.0000001	.4779670
2.734	.0000125	.0000001	.4779670
2.735	.0000114	.0000001	.4779670
2.736	.0000103	.0000001	.4779670
2.737	.0000093	.0000001	.4779670
2.738	.0000084	.0000001	.4779670
2.739	.0000075	.0000001	.4779670
2.740	.0000067	.0000001	.4779670
2.741	.0000060	.0000000	.4779670
2.742	.0000053	.0000000	.4779670
2.743	.0000047	.0000000	.4779670
2.744	.0000041	.0000000	.4779670
2.745	.0000036	.0000000	.4779670
2.746	.0000031	.0000000	.4779670
2.747	.0000027	.0000000	.4779670
2.748	.0000023	.0000000	.4779670
2.749	.0000020	.0000000	.4779670
2.750	.0000016	.0000000	.4779670

TABLE II. - Concluded. MASS-FLOW PARAMETERS FOR $\gamma = 1.3$

V/V_{cr}	$\rho V/\rho' V_{cr}$	p/p'	A
2.751	0.0000014	0.0000000	0.4779670
2.752	.0000011	.0000000	.4779670
2.753	.0000009	.0000000	.4779670
2.754	.0000007	.0000000	.4779670
2.755	.0000006	.0000000	.4779670
2.756	.0000005	.0000000	.4779670
2.757	.0000004	.0000000	.4779670
2.758	.0000003	.0000000	.4779670
2.759	.0000002	.0000000	.4779670
2.760	.0000001	.0000000	.4779670
2.761	.0000001	.0000000	.4779670
2.762	.0000001	.0000000	.4779670
2.763	.0000000	.0000000	.4779670
2.764	.0000000	.0000000	.4779670
2.765	.0000000	.0000000	.4779670
2.766	.0000000	.0000000	.4779670
2.767	.0000000	.0000000	.4779670
2.768	.0000000	.0000000	.4779670

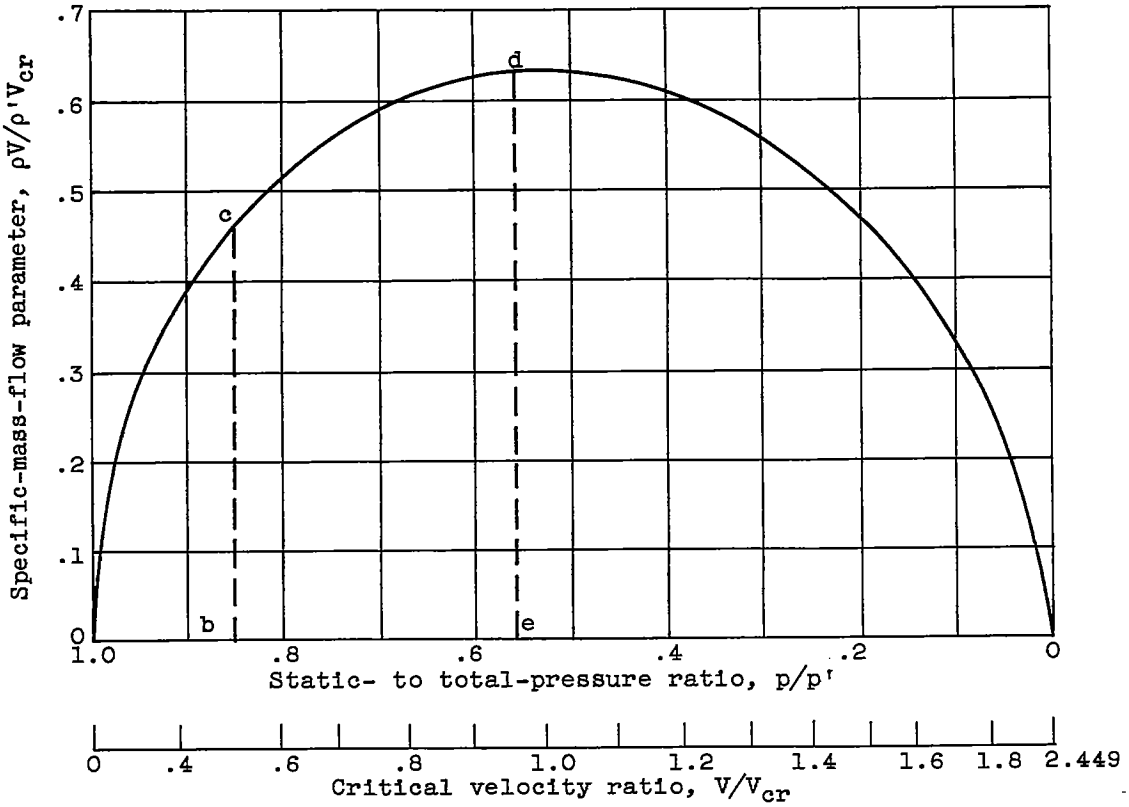

Figure 1. - Variation of specific-mass-flow parameter $\rho V/\rho' V_{cr}$ with ratio of static to total pressure for γ of 1.4, illustrating method of obtaining integrated average mass flow for construction of mass-flow tables.

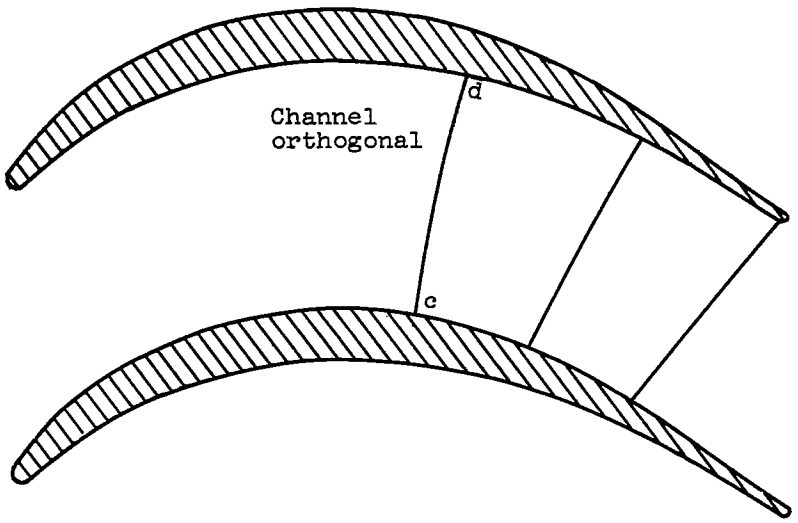

Figure 2. - Sketch of typical turbine blade channel to illustrate use of mass-flow tables.