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TABLE OF PRESSURE RATIOS  $P'_O/\bar{P}_S$  AND  $\bar{P}_S/P_1$  VS. MACH NUMBER  
FOR A  $15^\circ$  RIGHT CIRCULAR SUPERSONIC CONE

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## ABSTRACT

This report presents a table of pressure ratios to be found on a  $15^\circ$  right circular cone tabulated versus the free-stream Mach number. The pressure ratios are given to five significant figures against 0.001 increments of the argument. The argument ranges from  $M_1 = 1.048$  to  $M_1 = 3.895$ . Given are the ratio of total heat pressure ( $P'_0$ ) to the cone-surface pressure ( $\bar{P}_s$ ) and the ratio of the cone surface pressure ( $\bar{P}_s$ ) to the free-stream static pressure ( $P_1$ ). With these tables and two pressures on a right circular cone, it is possible to determine the free-stream Mach number and the free-stream static pressure. By measuring the free-stream velocity (or the velocity of the cone through the media if that is the situation) in addition, it is possible to compute free-stream static temperatures and densities.

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FOR A  $15^\circ$  RIGHT CIRCULAR SUPERSONIC CONEINTRODUCTION

The measurement of temperature and pressure in the upper atmosphere from supersonic missiles<sub>1,2</sub> requires the determination of Mach number as related to the pressures on some body of revolution reconcilable with the practical aspects of supersonic missiles. Of the possible geometries ranging from cylinders to secant and tangent ogives, the right circular cone provided the best compromise between the theoretical and practical aspects of the problem.

The table presented in this report has been compiled as a result of temperature computations and is considered necessary to the measurements desired. It should prove useful also in measurements of Mach number where the conventional pitot tube is replaced by a truncated right circular cone (truncation is necessary to the measurement of the total head pressure,  $P'_0$ ).

In performing cone-surface pressure measurements, the cone-surface pressure tap should be located at approximately 0.9 the axial distance from the leading edge. This has been shown as a result of wind-tunnel experiments conducted by Mr. Sicinski, which have demonstrated that conical regime pressures<sub>3,4</sub> are established on the cone within three diameters (based on the truncation section diameter) along the cone's surface.

Having the total head pressure  $P'_0$  and the cone surface pressure  $\bar{P}_s$ , it is possible to compute the free-stream Mach number and the free-stream static pressure, beginning with the following identity

$$\frac{P'_O}{P_S} = \frac{P'_O}{P_2} \frac{P_2}{P_1} \frac{P_1}{P_W} \frac{P_W}{P_S} \quad (1)$$

Since each of the right-hand factors is a function of the Mach number, the pressure ratio  $P'_O/\bar{P}_S$  is an index of the free-stream Mach number. Each of the right-hand factors may be expressed in terms of the Mach number as follows.

$$\frac{P'_O}{P_2} = \left( 1 + \frac{\gamma - 1}{2} M_2^2 \right)^{\gamma/(\gamma-1)}, \quad (2)$$

where

$$M_2 = \left[ \frac{(\gamma - 1) M_1^2 + 2}{2\gamma M_1^2 - (\gamma - 1)} \right]^{1/2} \quad (3)$$

Then the ratio of pressures across the oblique shock is

$$\frac{P_W}{P_1} = \frac{2\gamma}{\gamma + 1} M_1^2 \sin^2 \theta_w - \frac{(\gamma - 1)}{(\gamma + 1)} \quad (4)$$

and

$$\frac{P_2}{P_1} = \frac{2\gamma M_1^2 - (\gamma - 1)}{\gamma + 1} \quad (5)$$

Lastly,

$$\frac{P_W}{P_S} = \left[ \frac{1 - (u_w/c)^2 - (v_w/c)^2}{1 - (u_s/c)^2 - (v_s/c)^2} \right]^{\gamma/(\gamma-1)} \quad (6)$$

Because of the complexity of the calculation of the parameters for the small increment in the Mach number desired, it was found more satisfactory to determine the parameters at larger intervals of the Mach number and depend on a polynomial fitted to these main values for the calculation of the intermediate values of the argument. The following table lists the principal points resulting from equations (1) through (6), to which polynomials were fitted. Correspondingly, the relation between the free-stream static pressure  $P_1$  and the cone surface pressure  $\bar{P}_S$  for 0.001 increments of the Mach number were calculated from polynomials fitted to the identity,

$$\frac{\bar{P}_S}{P_1} = \left( \frac{\bar{P}_S}{P_W} \right) \left( \frac{P_W}{P_1} \right) \quad (7)$$

$M_1$	$M_2$	$\bar{P}_s/P_w$	$P_w/P_1$	$P_2/P_1$	$P'_O/P_2$	$P'_O/\bar{P}_s$
1.0484	0.9546	1.0773	1.0177	1.1158	1.7990	1.8313
1.0737	0.9329	1.0774	1.0131	1.1785	1.7560	1.8959
1.1144	0.9008	1.0797	1.0105	1.2825	1.6940	1.9913
1.1902	0.8484	1.0823	1.0095	1.4866	1.6025	2.1804
1.3577	0.7586	1.0968	1.0103	1.9853	1.4659	2.6263
1.5462	0.6861	1.1111	1.0147	2.6225	1.3700	3.1868
1.7610	0.6236	1.1289	1.0214	3.4513	1.2992	3.8886
2.0108	0.5741	1.1487	1.0324	4.5505	1.2503	4.7975
2.3105	0.5322	1.1699	1.0508	6.0615	1.2128	5.9801
2.6847	0.4968	1.1914	1.0822	8.2422	1.1836	7.5664
3.1795	0.4659	1.2105	1.1386	11.6274	1.1605	9.7900
3.8946	0.4379	1.2216	1.2489	17.5292	1.1407	13.1055

Figures 1 and 2 are qualitative representations of the functions over their entire tabulated range. Four equations represent  $P'_O/\bar{P}_s$  over its entire range of Mach numbers, while five equations were necessary to represent  $\bar{P}_s/P_1$  for a slightly shorter range. The choice of a smaller  $M_1$  range for  $\bar{P}_s/P_1$  was dictated by the lack of knowledge concerning the behavior of the  $\bar{P}_s/P_1$  function in the transonic interval. The lowest value for  $M_1$  is the relative minima for the function before it becomes double-valued. Information concerning equation (7) in this branch of the double-valued function is not sufficient to define the locus to the limits prescribed by the tabulation interval of the argument.

#### BIBLIOGRAPHY

1. The Rocket Panel, Phys. Rev. 88, 1027 (1952).
2. Sicinski, H. S., Spencer, N. W., and Dow, W. G., "Rocket Measurements of the Upper Air." J. Appl. Phy. Dec. 1953.
3. Lighthill, M. J., London Philosophical Mag. 7th series, 40, 214 (1949).
4. Giese and Bergdolt, "Interferometric Studies of Supersonic Flows about Truncated Cones," Ballistic Research Laboratories Report No. 830.
5. Kopal, Z., Center of Analysis Technical Report No. 1, 1947, Report No. 3, and Report No. 5, 1949. Massachusetts Institute of Technology, Department of Electrical Engineering.

FIG. 1  
 FREE STREAM MACH NUMBER  
 VERSUS  
 RATIO OF TOTAL HEAD PRESSURE  
 TO CONE SURFACE PRESSURE

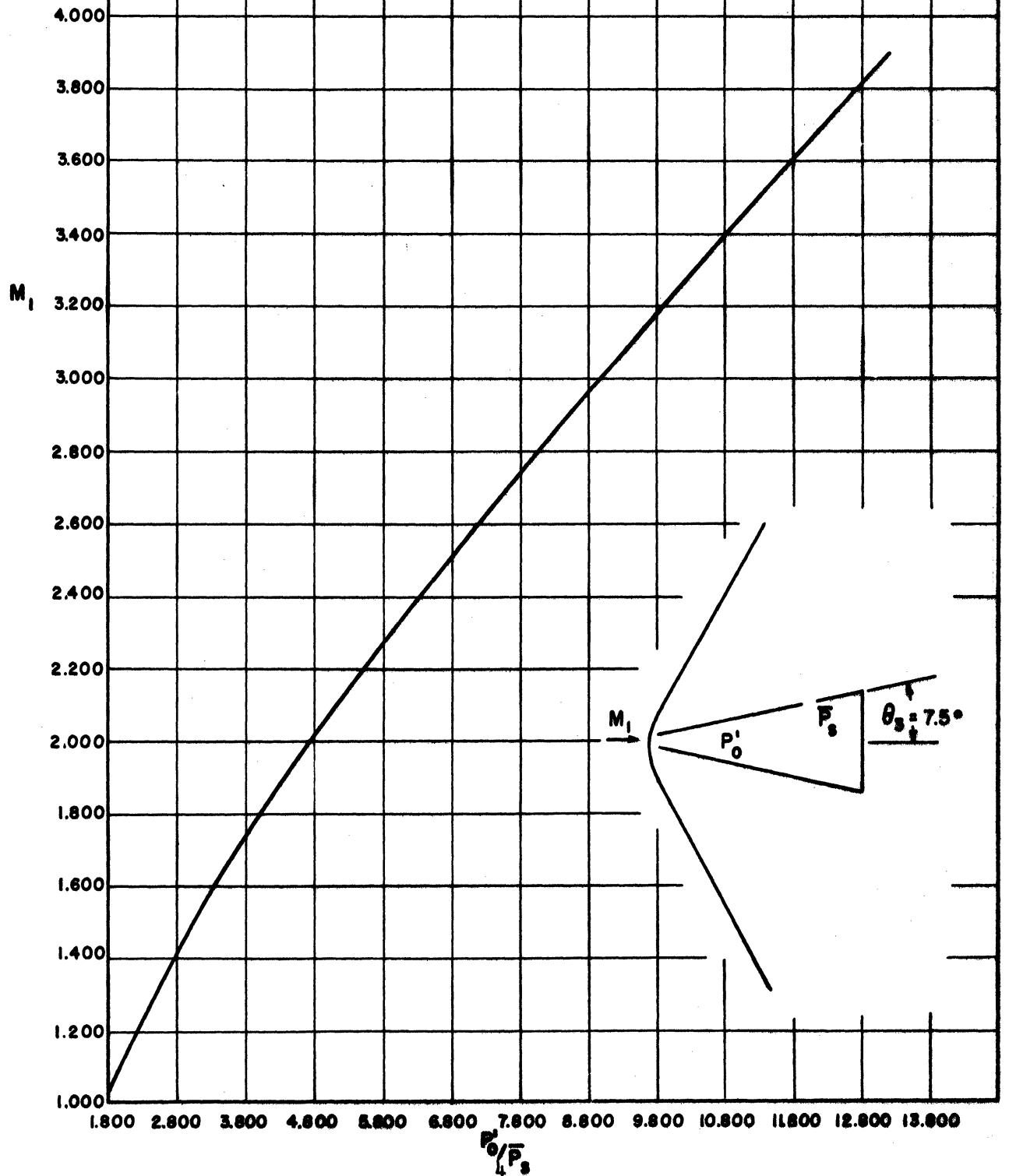
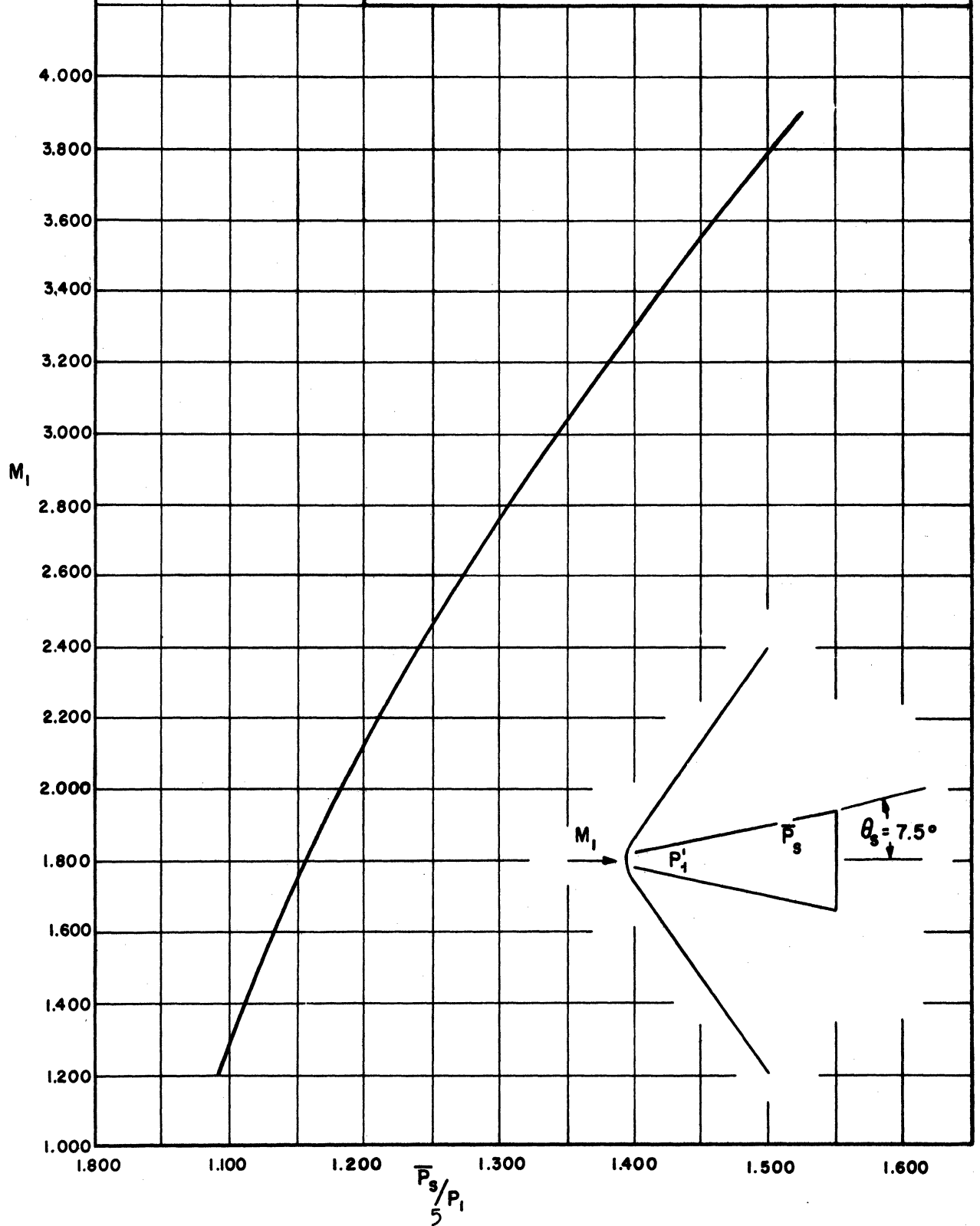
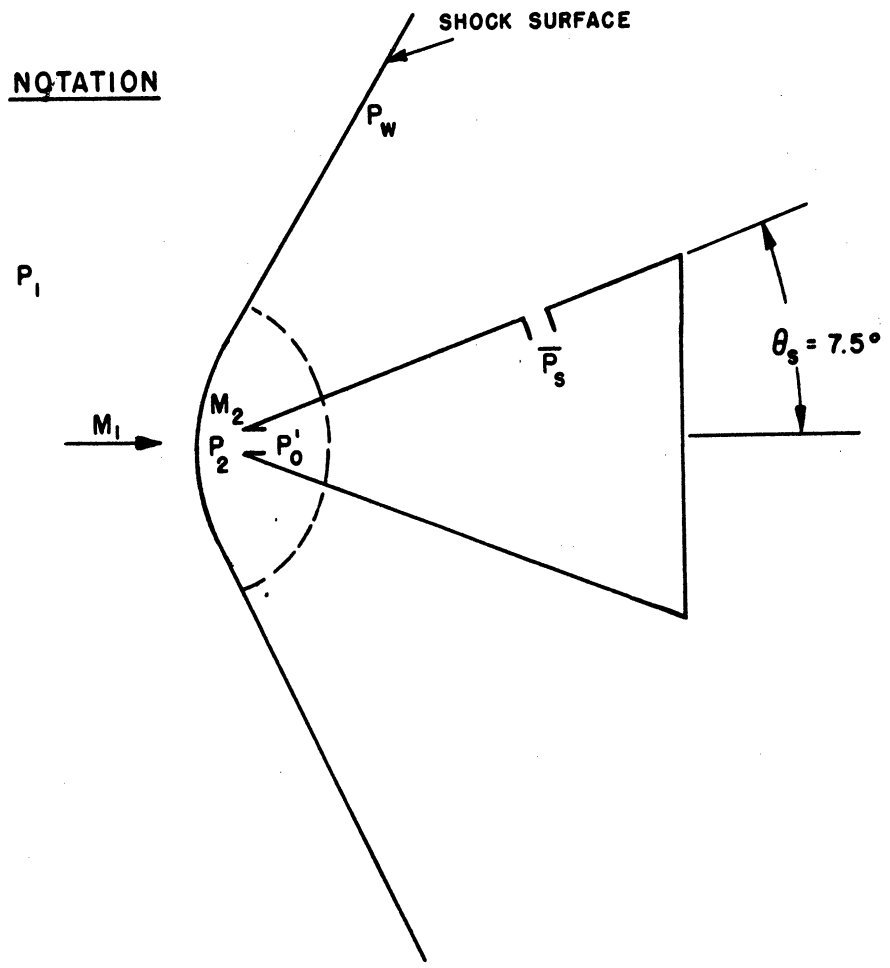


FIG. 2  
 FREE STREAM MACH NUMBER  
 VERSUS  
 RATIO OF CONE SURFACE PRESSURE  
 TO STATIC PRESSURE





- $P_1$  = STATIC PRESSURE AHEAD OF SHOCK SURFACE
- $M_1$  = MACH NUMBER
- $M_2$  = MACH NUMBER BEHIND NORMAL SHOCK
- $P_2$  = STATIC PRESSURE BEHIND NORMAL SHOCK
- $P'_0$  = TOTAL PRESSURE BEHIND NORMAL SHOCK
- $P_w$  = STATIC PRESSURE AT CONICAL SHOCK SURFACE
- $\bar{P}_s$  = SURFACE PRESSURE ON CONE



$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.048	1.829	1.091	1.075	1.894	1.091
1.049	1.832	1.091	1.076	1.896	1.091
1.050	1.834	1.091	1.077	1.899	1.091
1.051	1.836	1.091	1.078	1.901	1.091
1.052	1.839	1.091	1.079	1.903	1.091
1.053	1.841	1.091	1.080	1.906	1.091
1.054	1.843	1.091	1.081	1.908	1.091
1.055	1.846	1.091	1.082	1.911	1.091
1.056	1.848	1.091	1.083	1.913	1.091
1.057	1.851	1.091	1.084	1.915	1.091
1.058	1.853	1.091	1.085	1.918	1.091
1.059	1.855	1.091	1.086	1.920	1.091
1.060	1.858	1.091	1.087	1.923	1.091
1.061	1.860	1.091	1.088	1.925	1.091
1.062	1.863	1.091	1.089	1.928	1.091
1.063	1.865	1.091	1.090	1.930	1.091
1.064	1.867	1.091	1.091	1.932	1.091
1.065	1.870	1.091	1.092	1.935	1.091
1.066	1.872	1.091	1.093	1.937	1.091
1.067	1.875	1.091	1.094	1.940	1.091
1.068	1.877	1.091	1.095	1.942	1.091
1.069	1.879	1.091	1.096	1.945	1.091
1.070	1.882	1.091	1.097	1.947	1.091
1.071	1.884	1.091	1.098	1.949	1.091
1.072	1.887	1.091	1.099	1.952	1.091
1.073	1.889	1.091			
1.074	1.891	1.091			

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.100	1.954	1.091	1.125	2.016	1.091
1.101	1.957	1.091	1.126	2.018	1.091
1.102	1.959	1.091	1.127	2.021	1.091
1.103	1.962	1.091	1.128	2.023	1.091
1.104	1.964	1.091	1.129	2.026	1.091
1.105	1.967	1.091	1.130	2.028	1.091
1.106	1.969	1.091	1.131	2.031	1.091
1.107	1.971	1.091	1.132	2.033	1.091
1.108	1.974	1.091	1.133	2.036	1.091
1.109	1.976	1.091	1.134	2.038	1.091
1.110	1.979	1.091	1.135	2.041	1.091
1.111	1.981	1.091	1.136	2.043	1.091
1.112	1.984	1.091	1.137	2.046	1.091
1.113	1.986	1.091	1.138	2.048	1.091
1.114	1.989	1.091	1.139	2.051	1.091
1.115	1.991	1.091	1.140	2.053	1.091
1.116	1.994	1.091	1.141	2.055	1.091
1.117	1.996	1.091	1.142	2.058	1.091
1.118	1.998	1.091	1.143	2.060	1.091
1.119	2.001	1.091	1.144	2.063	1.091
1.120	2.003	1.091	1.145	2.065	1.091
1.121	2.006	1.091	1.146	2.068	1.091
1.122	2.008	1.091	1.147	2.070	1.091
1.123	2.011	1.091	1.148	2.073	1.091
1.124	2.013	1.091	1.149	2.076	1.091

$M_1$	$P'_O/\bar{P}_s$	$\bar{P}_s/P_1$	$M_1$	$P'_O/\bar{P}_s$	$\bar{P}_s/P_1$
1.150	2.078	1.091	1.175	2.141	1.092
1.151	2.081	1.091	1.176	2.144	1.092
1.152	2.083	1.091	1.177	2.146	1.092
1.153	2.086	1.091	1.178	2.149	1.092
1.154	2.088	1.091	1.179	2.151	1.092
1.155	2.091	1.091	1.180	2.154	1.092
1.156	2.093	1.091	1.181	2.156	1.092
1.157	2.096	1.091	1.182	2.159	1.092
1.158	2.098	1.092	1.183	2.161	1.092
1.159	2.101	1.092	1.184	2.164	1.092
1.160	2.103	1.092	1.185	2.166	1.092
1.161	2.106	1.092	1.186	2.169	1.092
1.162	2.108	1.092	1.187	2.172	1.092
1.163	2.111	1.092	1.188	2.174	1.093
1.164	2.113	1.092	1.189	2.177	1.093
1.165	2.116	1.092	1.190	2.179	1.093
1.166	2.118	1.092	1.191	2.182	1.093
1.167	2.121	1.092	1.192	2.184	1.093
1.168	2.123	1.092	1.193	2.187	1.093
1.169	2.126	1.092	1.194	2.189	1.093
1.170	2.128	1.092	1.195	2.192	1.093
1.171	2.131	1.092	1.196	2.195	1.093
1.172	2.133	1.092	1.197	2.197	1.093
1.173	2.136	1.092	1.198	2.200	1.093
1.174	2.138	1.092	1.199	2.202	1.093

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.200	2.205	1.093	1.225	2.270	1.096
1.201	2.207	1.093	1.226	2.272	1.096
1.202	2.210	1.093	1.227	2.275	1.096
1.203	2.213	1.093	1.228	2.277	1.096
1.204	2.215	1.094	1.229	2.280	1.096
1.205	2.218	1.094	1.230	2.283	1.096
1.206	2.220	1.094	1.231	2.285	1.096
1.207	2.223	1.094	1.232	2.288	1.096
1.208	2.225	1.094	1.233	2.290	1.096
1.209	2.228	1.094	1.234	2.293	1.096
1.210	2.231	1.094	1.235	2.296	1.096
1.211	2.233	1.094	1.236	2.298	1.097
1.212	2.236	1.094	1.237	2.301	1.097
1.213	2.238	1.094	1.238	2.303	1.097
1.214	2.241	1.095	1.239	2.306	1.097
1.215	2.244	1.095	1.240	2.309	1.097
1.216	2.246	1.095	1.241	2.311	1.097
1.217	2.249	1.095	1.242	2.314	1.097
1.218	2.251	1.095	1.243	2.317	1.097
1.219	2.254	1.095	1.244	2.319	1.097
1.220	2.257	1.095	1.245	2.322	1.097
1.221	2.259	1.095	1.246	2.324	1.097
1.222	2.262	1.095	1.247	2.327	1.098
1.223	2.264	1.095	1.248	2.330	1.098
1.224	2.267	1.095	1.249	2.332	1.098

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.250	2.335	1.098	1.275	2.401	1.100
1.251	2.338	1.098	1.276	2.404	1.100
1.252	2.340	1.098	1.277	2.407	1.100
1.253	2.343	1.098	1.278	2.409	1.100
1.254	2.346	1.098	1.279	2.412	1.101
1.255	2.348	1.098	1.280	2.415	1.101
1.256	2.351	1.098	1.281	2.417	1.101
1.257	2.353	1.099	1.282	2.420	1.101
1.258	2.356	1.099	1.283	2.423	1.101
1.259	2.359	1.099	1.284	2.425	1.101
1.260	2.361	1.099	1.285	2.428	1.101
1.261	2.364	1.099	1.286	2.431	1.101
1.262	2.367	1.099	1.287	2.433	1.101
1.263	2.369	1.099	1.288	2.436	1.101
1.264	2.372	1.099	1.289	2.439	1.102
1.265	2.375	1.099	1.290	2.441	1.102
1.266	2.377	1.099	1.291	2.444	1.102
1.267	2.380	1.099	1.292	2.447	1.102
1.268	2.383	1.100	1.293	2.449	1.102
1.269	2.385	1.100	1.294	2.452	1.102
1.270	2.388	1.100	1.295	2.455	1.102
1.271	2.391	1.100	1.296	2.458	1.102
1.272	2.393	1.100	1.297	2.460	1.102
1.273	2.396	1.100	1.298	2.463	1.102
1.274	2.399	1.100	1.299	2.466	1.103

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.300	2.468	1.103	1.325	2.536	1.105
1.301	2.471	1.103	1.326	2.539	1.105
1.302	2.474	1.103	1.327	2.542	1.105
1.303	2.476	1.103	1.328	2.544	1.105
1.304	2.479	1.103	1.329	2.547	1.105
1.305	2.482	1.103	1.330	2.550	1.105
1.306	2.485	1.103	1.331	2.553	1.105
1.307	2.487	1.103	1.332	2.555	1.106
1.308	2.490	1.103	1.333	2.558	1.106
1.309	2.493	1.103	1.334	2.561	1.106
1.310	2.495	1.103	1.335	2.564	1.106
1.311	2.498	1.104	1.336	2.566	1.106
1.312	2.501	1.104	1.337	2.569	1.106
1.313	2.504	1.104	1.338	2.572	1.106
1.314	2.506	1.104	1.339	2.575	1.106
1.315	2.509	1.104	1.340	2.577	1.106
1.316	2.512	1.104	1.341	2.580	1.106
1.317	2.514	1.104	1.342	2.583	1.106
1.318	2.517	1.104	1.343	2.586	1.107
1.319	2.520	1.104	1.344	2.588	1.107
1.320	2.523	1.104	1.345	2.591	1.107
1.321	2.525	1.104	1.346	2.594	1.107
1.322	2.528	1.105	1.347	2.597	1.107
1.323	2.531	1.105	1.348	2.599	1.107
1.324	2.533	1.105	1.349	2.602	1.107

$\underline{M_1}$	$\underline{P'_O / \bar{P}_S}$	$\underline{\bar{P}_S / P_1}$	$\underline{M_1}$	$\underline{P'_O / \bar{P}_S}$	$\underline{\bar{P}_S / P_1}$
1.350	2.605	1.107	1.375	2.672	1.109
1.351	2.608	1.107	1.376	2.675	1.109
1.352	2.610	1.107	1.377	2.677	1.109
1.353	2.613	1.107	1.378	2.680	1.109
1.354	2.616	1.108	1.379	2.683	1.110
1.355	2.619	1.108	1.380	2.686	1.110
1.356	2.622	1.108	1.381	2.689	1.110
1.357	2.624	1.108	1.382	2.692	1.110
1.358	2.624	1.108	1.383	2.694	1.110
1.359	2.627	1.108	1.384	2.697	1.110
1.360	2.630	1.108	1.385	2.700	1.110
1.361	2.632	1.108	1.386	2.703	1.110
1.362	2.635	1.108	1.387	2.706	1.110
1.363	2.638	1.108	1.388	2.709	1.110
1.364	2.641	1.108	1.389	2.712	1.111
1.365	2.644	1.108	1.390	2.714	1.111
1.366	2.646	1.108	1.391	2.717	1.111
1.367	2.649	1.108	1.392	2.720	1.111
1.368	2.652	1.108	1.393	2.723	1.111
1.369	2.655	1.108	1.394	2.726	1.111
1.370	2.658	1.109	1.395	2.729	1.111
1.371	2.660	1.109	1.396	2.732	1.111
1.372	2.663	1.109	1.397	2.734	1.111
1.373	2.666	1.109	1.398	2.737	1.111
1.374	2.669	1.109	1.399	2.740	1.112

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.400	2.743	1.112	1.425	2.815	1.114
1.401	2.746	1.112	1.426	2.818	1.114
1.402	2.749	1.112	1.427	2.821	1.115
1.403	2.752	1.112	1.428	2.824	1.115
1.404	2.754	1.112	1.429	2.827	1.115
1.405	2.757	1.112	1.430	2.830	1.115
1.406	2.760	1.112	1.431	2.833	1.115
1.407	2.763	1.112	1.432	2.836	1.115
1.408	2.766	1.113	1.433	2.838	1.115
1.409	2.769	1.113	1.434	2.841	1.115
1.410	2.772	1.113	1.435	2.844	1.115
1.411	2.775	1.113	1.436	2.847	1.115
1.412	2.777	1.113	1.437	2.850	1.116
1.413	2.780	1.113	1.438	2.853	1.116
1.414	2.783	1.113	1.439	2.856	1.116
1.415	2.786	1.113	1.440	2.859	1.116
1.416	2.789	1.113	1.441	2.862	1.116
1.417	2.792	1.113	1.442	2.865	1.116
1.418	2.795	1.114	1.443	2.868	1.116
1.419	2.798	1.114	1.444	2.871	1.116
1.420	2.801	1.114	1.445	2.874	1.116
1.421	2.804	1.114	1.446	2.877	1.117
1.422	2.806	1.114	1.447	2.879	1.117
1.423	2.809	1.114	1.448	2.882	1.117
1.424	2.812	1.114	1.449	2.885	1.117



<u>M<sub>1</sub></u>	<u>P'<sub>0</sub> / P<sub>s</sub></u>	<u>P<sub>s</sub> / P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>0</sub> / P<sub>s</sub></u>	<u>P<sub>s</sub> / P<sub>1</sub></u>
1.450	2.888	1.117	1.475	2.962	1.120
1.451	2.891	1.117	1.476	2.965	1.120
1.452	2.894	1.117	1.477	2.968	1.120
1.453	2.897	1.117	1.478	2.971	1.120
1.454	2.900	1.117	1.479	2.974	1.120
1.455	2.903	1.117	1.480	2.977	1.120
1.456	2.906	1.118	1.481	2.980	1.120
1.457	2.909	1.118	1.482	2.983	1.120
1.458	2.912	1.118	1.483	2.986	1.120
1.459	2.915	1.118	1.484	2.989	1.121
1.460	2.918	1.118	1.485	2.992	1.121
1.461	2.921	1.118	1.486	2.995	1.121
1.462	2.924	1.118	1.487	2.998	1.121
1.463	2.927	1.118	1.488	3.001	1.121
1.464	2.930	1.118	1.489	3.004	1.121
1.465	2.933	1.119	1.490	3.007	1.121
1.466	2.936	1.119	1.491	3.010	1.121
1.467	2.939	1.119	1.492	3.013	1.121
1.468	2.942	1.119	1.493	3.016	1.122
1.469	2.945	1.119	1.494	3.019	1.122
1.470	2.948	1.119	1.495	3.022	1.122
1.471	2.950	1.119	1.496	3.025	1.122
1.472	2.953	1.119	1.497	3.028	1.122
1.473	2.956	1.119	1.498	3.032	1.122
1.474	2.959	1.120	1.499	3.035	1.122

$M_1$	$P'_O / \bar{P}_S$	$\bar{P}_S / P_1$	$M_1$	$P'_O / \bar{P}_S$	$\bar{P}_S / P_1$
1.500	3.038	1.122	1.525	3.114	1.125
1.501	3.041	1.122	1.526	3.117	1.125
1.502	3.044	1.123	1.527	3.120	1.125
1.503	3.047	1.123	1.528	3.123	1.125
1.504	3.050	1.123	1.529	3.126	1.126
1.505	3.053	1.123	1.530	3.129	1.126
1.506	3.056	1.123	1.531	2.132	1.126
1.507	3.059	1.123	1.532	3.135	1.126
1.508	3.062	1.123	1.533	3.138	1.126
1.509	3.065	1.123	1.534	3.141	1.126
1.510	3.068	1.123	1.535	3.144	1.126
1.511	3.071	1.124	1.536	3.147	1.126
1.512	3.074	1.124	1.537	3.150	1.126
1.513	3.077	1.124	1.538	3.154	1.127
1.514	3.080	1.124	1.539	3.157	1.127
1.515	3.083	1.124	1.540	3.160	1.127
1.516	3.086	1.124	1.541	3.163	1.127
1.517	3.089	1.124	1.542	3.166	1.127
1.518	3.092	1.124	1.543	3.169	1.127
1.519	3.095	1.124	1.544	3.172	1.127
1.520	3.098	1.125	1.545	3.175	1.127
1.521	3.101	1.125	1.546	3.178	1.127
1.522	3.104	1.125	1.547	3.181	1.128
1.523	3.108	1.125	1.548	3.185	1.128
1.524	3.111	1.125	1.549	3.188	1.128

$\underline{M_1}$	$\underline{P'_O / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$	$\underline{M_1}$	$\underline{P'_O / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$
1.550	3.191	1.128	1.575	3.269	1.131
1.551	3.194	1.128	1.576	3.272	1.131
1.552	3.197	1.128	1.577	3.275	1.131
1.553	3.200	1.128	1.578	3.278	1.131
1.554	3.203	1.128	1.579	3.281	1.131
1.555	3.206	1.128	1.580	3.285	1.131
1.556	3.209	1.129	1.581	3.288	1.131
1.557	3.212	1.129	1.582	3.291	1.132
1.558	3.216	1.129	1.583	3.294	1.132
1.559	3.219	1.129	1.584	3.297	1.132
1.560	3.222	1.129	1.585	3.300	1.132
1.561	3.225	1.129	1.586	3.303	1.132
1.562	3.228	1.129	1.587	3.307	1.132
1.563	3.231	1.129	1.588	3.310	1.132
1.564	3.234	1.129	1.589	3.313	1.132
1.565	3.237	1.130	1.590	3.316	1.132
1.566	3.241	1.130	1.591	3.319	1.133
1.567	3.244	1.130	1.592	3.322	1.133
1.568	3.247	1.130	1.593	3.326	1.133
1.569	3.250	1.130	1.594	3.329	1.133
1.570	3.253	1.130	1.595	3.332	1.133
1.571	3.256	1.130	1.596	3.335	1.133
1.572	3.259	1.130	1.597	3.338	1.133
1.573	3.263	1.130	1.598	3.341	1.133
1.574	3.266	1.131	1.599	3.345	1.133

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.600	3.348	1.134	1.625	3.428	1.136
1.601	3.351	1.134	1.626	3.431	1.137
1.602	3.354	1.134	1.627	3.434	1.137
1.603	3.357	1.134	1.628	3.437	1.137
1.604	3.361	1.134	1.629	3.441	1.137
1.605	3.364	1.134	1.630	3.444	1.137
1.606	3.367	1.134	1.631	3.447	1.137
1.607	3.370	1.134	1.632	2.450	1.137
1.608	3.373	1.135	1.633	2.454	1.137
1.609	3.376	1.135	1.634	3.457	1.138
1.610	3.380	1.135	1.635	3.460	1.138
1.611	3.383	1.135	1.636	3.463	1.138
1.612	3.386	1.135	1.637	3.467	1.138
1.613	3.389	1.135	1.638	3.470	1.138
1.614	3.392	1.135	1.639	3.473	1.138
1.615	3.396	1.135	1.640	3.476	1.138
1.616	3.399	1.135	1.641	3.480	1.138
1.617	3.402	1.136	1.642	3.483	1.138
1.618	3.405	1.136	1.643	3.486	1.139
1.619	3.409	1.136	1.644	3.489	1.139
1.620	3.412	1.136	1.645	3.493	1.139
1.621	3.415	1.136	1.646	3.496	1.139
1.622	3.418	1.136	1.647	3.499	1.139
1.623	3.421	1.136	1.648	3.502	1.139
1.624	3.425	1.136	1.649	3.506	1.139

<u>M<sub>1</sub></u>	<u>P'<sub>0</sub> / P<sub>s</sub></u>	<u>P<sub>s</sub> / P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>0</sub> / P<sub>s</sub></u>	<u>P<sub>s</sub> / P<sub>1</sub></u>
1.650	3.509	1.139	1.675	3.591	1.142
1.651	3.512	1.140	1.676	3.594	1.143
1.652	3.515	1.140	1.677	3.597	1.143
1.653	3.519	1.140	1.678	3.601	1.143
1.654	3.522	1.140	1.679	3.604	1.143
1.655	3.525	1.140	1.680	3.607	1.143
1.656	3.528	1.140	1.681	3.611	1.143
1.657	3.532	1.140	1.682	3.614	1.143
1.658	3.535	1.140	1.683	3.617	1.143
1.659	3.538	1.140	1.684	3.621	1.143
1.660	3.542	1.141	1.685	3.624	1.144
1.661	3.545	1.141	1.686	3.627	1.144
1.662	3.548	1.141	1.687	3.631	1.144
1.663	3.551	1.141	1.688	3.634	1.144
1.664	3.555	1.141	1.689	3.637	1.144
1.665	3.558	1.141	1.690	3.641	1.144
1.666	3.561	1.141	1.691	3.644	1.144
1.667	3.564	1.141	1.692	3.647	1.144
1.668	3.568	1.142	1.693	3.650	1.145
1.669	3.571	1.142	1.694	3.654	1.145
1.670	3.574	1.142	1.695	3.657	1.145
1.671	3.578	1.142	1.696	3.661	1.145
1.672	3.581	1.142	1.697	3.664	1.145
1.673	3.584	1.142	1.698	3.667	1.145
1.674	3.588	1.142	1.699	3.671	1.145

$\underline{M_1}$	$\underline{P'_O / \bar{P}_S}$	$\underline{\bar{P}_S / P_1}$	$\underline{M_1}$	$\underline{P'_O / \bar{P}_S}$	$\underline{\bar{P}_S / P_1}$
1.700	3.674	1.145	1.725	3.758	1.148
1.701	3.677	1.146	1.726	3.761	1.149
1.702	3.681	1.146	1.727	3.765	1.149
1.703	3.684	1.146	1.728	3.768	1.149
1.704	3.687	1.146	1.729	3.771	1.149
1.705	3.691	1.146	1.730	3.775	1.149
1.706	3.694	1.146	1.731	3.778	1.149
1.707	3.697	1.146	1.732	3.781	1.149
1.708	3.701	1.146	1.733	3.785	1.149
1.709	3.704	1.147	1.734	3.788	1.150
1.710	3.707	1.147	1.735	3.792	1.150
1.711	3.711	1.147	1.736	3.795	1.150
1.712	3.714	1.147	1.737	3.798	1.150
1.713	3.717	1.147	1.738	3.802	1.150
1.714	3.721	1.147	1.739	3.805	1.150
1.715	3.724	1.147	1.740	3.809	1.150
1.716	3.727	1.147	1.741	3.812	1.150
1.717	3.731	1.147	1.742	3.815	1.151
1.718	3.734	1.148	1.743	3.819	1.151
1.719	3.738	1.148	1.744	3.822	1.151
1.720	3.741	1.148	1.745	3.826	1.151
1.721	3.744	1.148	1.746	3.829	1.151
1.722	3.748	1.148	1.747	3.832	1.151
1.723	3.751	1.148	1.748	3.836	1.151
1.724	3.754	1.148	1.749	3.839	1.151

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.750	3.843	1.152	1.775	3.929	1.155
1.751	3.846	1.152	1.776	3.932	1.155
1.752	3.850	1.152	1.777	3.936	1.155
1.753	3.853	1.152	1.778	3.939	1.155
1.754	3.856	1.152	1.779	3.942	1.155
1.755	3.860	1.152	1.780	3.946	1.155
1.756	3.863	1.152	1.781	3.949	1.155
1.757	3.867	1.152	1.782	3.953	1.156
1.758	3.870	1.153	1.783	3.956	1.156
1.759	3.874	1.153	1.784	3.960	1.156
1.760	3.877	1.153	1.785	3.963	1.156
1.761	3.880	1.153	1.786	3.967	1.156
1.762	3.884	1.153	1.787	3.970	1.156
1.763	3.887	1.153	1.788	3.974	1.156
1.764	3.891	1.153	1.789	3.977	1.156
1.765	3.894	1.153	1.790	3.981	1.157
1.766	3.898	1.154	1.791	3.984	1.157
1.767	3.901	1.154	1.792	3.988	1.157
1.768	3.904	1.154	1.793	3.991	1.157
1.769	3.908	1.154	1.794	3.995	1.157
1.770	3.911	1.154	1.795	3.998	1.157
1.771	3.915	1.154	1.796	4.002	1.157
1.772	3.918	1.154	1.797	4.005	1.157
1.773	3.922	1.154	1.798	4.009	1.158
1.774	3.925	1.155	1.799	4.012	1.158

$\underline{M_1}$	$\underline{P'_o / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$	$\underline{M_1}$	$\underline{P'_o / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$
1.800	4.016	1.158	1.825	4.103	1.161
1.801	4.019	1.158	1.826	4.107	1.161
1.802	4.023	1.158	1.827	4.111	1.161
1.803	4.026	1.158	1.828	4.114	1.161
1.804	4.030	1.158	1.829	4.118	1.162
1.805	4.033	1.158	1.830	4.121	1.162
1.806	4.037	1.159	1.831	4.125	1.162
1.807	4.040	1.159	1.832	4.128	1.162
1.808	4.044	1.159	1.833	4.132	1.162
1.809	4.047	1.159	1.834	4.135	1.162
1.810	4.051	1.159	1.835	4.139	1.162
1.811	4.054	1.159	1.836	4.142	1.162
1.812	4.058	1.159	1.837	4.146	1.163
1.813	4.061	1.159	1.838	4.150	1.163
1.814	4.065	1.160	1.839	4.153	1.163
1.815	4.068	1.160	1.840	4.157	1.163
1.816	4.072	1.160	1.841	4.160	1.163
1.817	4.075	1.160	1.842	4.164	1.163
1.818	4.079	1.160	1.843	4.167	1.163
1.819	4.082	1.160	1.844	4.171	1.163
1.820	4.086	1.160	1.845	4.174	1.164
1.821	4.089	1.161	1.846	4.178	1.164
1.822	4.093	1.161	1.847	4.182	1.164
1.823	4.097	1.161	1.848	4.185	1.164
1.824	4.100	1.161	1.849	4.189	1.164



$M_1$	$P'_o / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_o / \bar{P}_s$	$\bar{P}_s / P_1$
1.850	4.192	1.164	1.875	4.282	1.168
1.851	4.196	1.164	1.876	4.286	1.168
1.852	4.199	1.165	1.877	4.289	1.168
1.853	4.203	1.165	1.878	4.293	1.168
1.854	4.207	1.165	1.879	4.297	1.168
1.855	4.210	1.165	1.880	4.300	1.168
1.856	4.214	1.165	1.881	4.304	1.168
1.857	4.217	1.165	1.882	4.307	1.168
1.858	4.221	1.165	1.883	4.311	1.169
1.859	4.224	1.165	1.884	4.315	1.169
1.860	4.228	1.166	1.885	4.318	1.169
1.861	4.232	1.166	1.886	4.322	1.169
1.862	4.235	1.166	1.887	4.326	1.169
1.863	4.239	1.166	1.888	4.329	1.169
1.864	4.242	1.166	1.889	4.333	1.169
1.865	4.246	1.166	1.890	4.337	1.170
1.866	4.250	1.166	1.891	4.340	1.170
1.867	4.253	1.166	1.892	4.344	1.170
1.868	4.257	1.167	1.893	4.347	1.170
1.869	4.260	1.167	1.894	4.351	1.170
1.870	4.264	1.167	1.895	4.355	1.170
1.871	4.268	1.167	1.896	4.358	1.170
1.872	4.271	1.167	1.897	4.362	1.170
1.873	4.275	1.167	1.898	4.366	1.171
1.874	4.278	1.167	1.899	4.369	1.171

$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$	$M_1$	$P'_O / \bar{P}_s$	$\bar{P}_s / P_1$
1.900	4.373	1.171	1.925	4.464	1.174
1.901	4.377	1.171	1.926	4.468	1.174
1.902	4.380	1.171	1.927	4.472	1.174
1.903	4.384	1.171	1.928	4.476	1.175
1.904	4.388	1.171	1.929	4.480	1.175
1.905	4.391	1.172	1.930	4.483	1.175
1.906	4.395	1.172	1.931	4.487	1.175
1.907	4.399	1.172	1.932	4.491	1.175
1.908	4.402	1.172	1.933	4.494	1.175
1.909	4.406	1.172	1.934	4.498	1.175
1.910	4.410	1.172	1.935	4.502	1.176
1.911	4.413	1.172	1.936	4.505	1.176
1.912	4.417	1.172	1.937	4.509	1.176
1.913	4.421	1.173	1.938	4.513	1.176
1.914	4.424	1.173	1.939	4.517	1.176
1.915	4.428	1.173	1.940	4.520	1.176
1.916	4.432	1.173	1.941	4.524	1.176
1.917	4.435	1.173	1.942	4.528	1.176
1.918	4.439	1.173	1.943	4.531	1.177
1.919	4.443	1.173	1.944	4.535	1.177
1.920	4.446	1.174	1.945	4.539	1.177
1.921	4.450	1.174	1.946	4.543	1.177
1.922	4.454	1.174	1.947	4.546	1.177
1.923	4.457	1.174	1.948	4.550	1.177
1.924	4.461	1.174	1.949	4.554	1.177

$\underline{M_1}$	$\underline{P'_o / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$	$\underline{M_1}$	$\underline{P'_o / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$
1.950	4.558	1.178	1.975	4.651	1.181
1.951	4.561	1.178	1.976	4.655	1.181
1.952	4.565	1.178	1.977	4.659	1.181
1.953	4.569	1.178	1.978	4.663	1.181
1.954	4.573	1.178	1.979	4.666	1.182
1.955	4.576	1.178	1.980	4.670	1.182
1.956	4.580	1.178	1.981	4.674	1.182
1.957	4.584	1.179	1.982	4.678	1.182
1.958	4.587	1.179	1.983	4.682	1.182
1.959	4.591	1.179	1.984	4.685	1.182
1.960	4.595	1.179	1.985	4.689	1.182
1.961	4.599	1.179	1.986	4.693	1.183
1.962	4.602	1.179	1.987	4.697	1.183
1.963	4.606	1.179	1.988	4.701	1.183
1.964	4.610	1.179	1.989	4.704	1.183
1.965	4.614	1.180	1.990	4.708	1.183
1.966	4.617	1.180	1.991	4.712	1.183
1.967	4.621	1.180	1.992	4.716	1.183
1.968	4.625	1.180	1.993	4.719	1.183
1.969	4.629	1.180	1.994	4.723	1.184
1.970	4.633	1.180	1.995	4.727	1.184
1.971	4.636	1.180	1.996	4.731	1.184
1.972	4.640	1.181	1.997	4.735	1.184
1.973	4.644	1.181	1.998	4.739	1.184
1.974	4.648	1.181	1.999	4.742	1.184

$M_1$	$P'_O / \bar{P}_S$	$\bar{P}_S / P_1$	$M_1$	$P'_O / \bar{P}_S$	$\bar{P}_S / P_1$
2.000	4.746	1.184	2.025	4.843	1.188
2.001	4.750	1.185	2.026	4.847	1.189
2.002	4.754	1.185	2.027	4.851	1.189
2.003	4.758	1.185	2.028	4.855	1.189
2.004	4.761	1.185	2.029	4.859	1.189
2.005	4.765	1.185	2.030	4.863	1.189
2.006	4.769	1.185	2.031	4.867	1.189
2.007	4.773	1.185	2.032	4.871	1.189
2.008	4.777	1.186	2.033	4.875	1.190
2.009	4.780	1.186	2.034	4.879	1.190
2.010	4.784	1.186	2.035	4.883	1.190
2.011	4.788	1.186	2.036	4.887	1.190
2.012	4.792	1.187	2.037	4.891	1.190
2.013	4.796	1.187	2.038	4.895	1.190
2.014	4.800	1.187	2.039	4.899	1.190
2.015	4.804	1.187	2.040	4.903	1.191
2.016	4.808	1.187	2.041	4.907	1.191
2.017	4.812	1.187	2.042	4.911	1.191
2.018	4.816	1.187	2.043	4.915	1.191
2.019	4.820	1.188	2.044	4.919	1.191
2.020	4.824	1.188	2.045	4.923	1.191
2.021	4.828	1.188	2.046	4.927	1.191
2.022	4.832	1.188	2.047	4.931	1.192
2.023	4.835	1.188	2.048	4.935	1.192
2.024	4.839	1.188	2.049	4.939	1.192

$\underline{M_1}$	$\underline{P'_0 / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$	$\underline{M_1}$	$\underline{P'_0 / \bar{P}_s}$	$\underline{\bar{P}_s / P_1}$
2.050	4.943	1.192	2.075	5.042	1.195
2.051	4.947	1.192	2.076	5.046	1.196
2.052	4.951	1.192	2.077	5.050	1.196
2.053	4.955	1.192	2.078	5.054	1.196
2.054	4.959	1.193	2.079	5.058	1.196
2.055	4.963	1.193	2.080	5.062	1.196
2.056	4.967	1.193	2.081	5.066	1.196
2.057	4.971	1.193	2.082	5.070	1.196
2.058	4.975	1.193	2.083	5.074	1.197
2.059	4.979	1.193	2.084	5.078	1.197
2.060	4.983	1.193	2.085	5.082	1.197
2.061	4.987	1.193	2.086	5.086	1.197
2.062	4.991	1.194	2.087	5.090	1.197
2.063	4.995	1.194	2.088	5.094	1.197
2.064	4.999	1.194	2.089	5.098	1.197
2.065	5.003	1.194	2.090	5.102	1.198
2.066	5.007	1.194	2.091	5.106	1.198
2.067	5.011	1.194	2.092	5.110	1.198
2.068	5.015	1.194	2.093	5.114	1.198
2.069	5.019	1.195	2.094	5.118	1.198
2.070	5.023	1.195	2.095	5.122	1.198
2.071	5.027	1.195	2.096	5.126	1.198
2.072	5.031	1.195	2.097	5.130	1.199
2.073	5.034	1.195	2.098	5.134	1.199
2.074	5.038	1.195	2.099	5.138	1.199

<u>M<sub>1</sub></u>	<u>P<sub>O</sub>'/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P<sub>O</sub>'/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>
2.100	5.142	1.199	2.125	5.241	1.202
2.101	5.146	1.199	2.126	5.245	1.203
2.102	5.150	1.199	2.127	5.249	1.203
2.103	5.154	1.199	2.128	5.253	1.203
2.104	5.158	1.200	2.129	5.257	1.203
2.105	5.162	1.200	2.130	5.261	1.203
2.106	5.166	1.200	2.131	5.265	1.203
2.107	5.170	1.200	2.132	5.269	1.203
2.108	5.174	1.200	2.133	5.273	1.204
2.109	5.178	1.200	2.134	5.277	1.204
2.110	5.182	1.200	2.135	5.281	1.204
2.111	5.186	1.200	2.136	5.285	1.204
2.112	5.190	1.201	2.137	5.289	1.204
2.113	5.194	1.201	2.138	5.293	1.204
2.114	5.198	1.201	2.139	5.297	1.204
2.115	5.202	1.201	2.140	5.301	1.205
2.116	5.206	1.201	2.141	5.305	1.205
2.117	5.210	1.201	2.142	5.309	1.205
2.118	5.214	1.201	2.143	5.313	1.205
2.119	5.218	1.202	2.144	5.317	1.205
2.120	5.222	1.202	2.145	5.321	1.205
2.121	5.226	1.202	2.146	5.325	1.205
2.122	5.230	1.202	2.147	5.329	1.206
2.123	5.233	1.202	2.148	5.333	1.206
2.124	5.237	1.202	2.149	5.337	1.206

<u>M<sub>1</sub></u>	<u>P'<sub>0</sub>/P<sub>s</sub></u>	<u>P̄<sub>s</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>0</sub>/P<sub>s</sub></u>	<u>P̄<sub>s</sub>/P<sub>1</sub></u>
2.150	5.341	1.206	2.175	5.440	1.209
2.151	5.345	1.206	2.176	5.444	1.210
2.152	5.349	1.206	2.177	5.448	1.210
2.153	5.353	1.206	2.178	5.452	1.210
2.154	5.357	1.207	2.179	5.456	1.210
2.155	5.361	1.207	2.180	5.460	1.210
2.156	5.365	1.207	2.181	5.464	1.210
2.157	5.369	1.207	2.182	5.468	1.210
2.158	5.373	1.207	2.183	5.472	1.211
2.159	5.377	1.207	2.184	5.476	1.211
2.160	5.381	1.207	2.185	5.480	1.211
2.161	5.385	1.207	2.186	5.484	1.211
2.162	5.389	1.208	2.187	5.488	1.211
2.163	5.393	1.208	2.188	5.492	1.211
2.164	5.397	1.208	2.189	5.496	1.211
2.165	5.401	1.208	2.190	5.500	1.212
2.166	5.405	1.208	2.191	5.504	1.212
2.167	5.409	1.208	2.192	5.508	1.212
2.168	5.413	1.208	2.193	5.512	1.212
2.169	5.417	1.209	2.194	5.516	1.212
2.170	5.421	1.209	2.195	5.520	1.212
2.171	5.425	1.209	2.196	5.524	1.212
2.172	5.429	1.209	2.197	5.528	1.213
2.173	5.432	1.209	2.198	5.532	1.213
2.174	5.436	1.209	2.199	5.536	1.213

$\underline{M_1}$	$\underline{P'_O/P_s}$	$\underline{\bar{P}_s/P_1}$	$\underline{M_1}$	$\underline{P'_O/P_s}$	$\underline{\bar{P}_s/P_1}$
2.200	5.540	1.213	2.225	5.639	1.216
2.201	5.544	1.213	2.226	5.643	1.217
2.202	5.548	1.213	2.227	5.647	1.217
2.203	5.552	1.213	2.228	5.651	1.217
2.204	5.556	1.214	2.229	5.655	1.217
2.205	5.560	1.214	2.230	5.659	1.217
2.206	5.564	1.214	2.231	5.663	1.217
2.207	5.568	1.214	2.232	5.667	1.217
2.208	5.572	1.214	2.233	5.671	1.218
2.209	5.576	1.214	2.234	5.675	1.218
2.210	5.580	1.214	2.235	5.679	1.218
2.211	5.584	1.214	2.236	5.683	1.218
2.212	5.588	1.215	2.237	5.687	1.218
2.213	5.592	1.215	2.238	5.691	1.218
2.214	5.596	1.215	2.239	5.695	1.218
2.215	5.600	1.215	2.240	5.699	1.219
2.216	5.604	1.215	2.241	5.703	1.219
2.217	5.608	1.215	2.242	5.707	1.219
2.218	5.612	1.215	2.243	5.711	1.219
2.219	5.616	1.216	2.244	5.715	1.219
2.220	5.620	1.216	2.245	5.719	1.219
2.221	5.624	1.216	2.246	5.723	1.219
2.222	5.628	1.216	2.247	5.727	1.220
2.223	5.631	1.216	2.248	5.731	1.220
2.224	5.635	1.216	2.249	5.735	1.220



$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
2.250	5.739	1.220	2.275	5.838	1.223
2.251	5.743	1.220	2.276	5.842	1.224
2.252	5.747	1.220	2.277	5.846	1.224
2.253	5.751	1.220	2.278	5.850	1.224
2.254	5.755	1.221	2.279	5.854	1.224
2.255	5.759	1.221	2.280	5.858	1.224
2.256	5.763	1.221	2.281	5.862	1.224
2.257	5.767	1.221	2.282	5.866	1.224
2.258	5.771	1.221	2.283	5.870	1.225
2.259	5.775	1.221	2.284	5.874	1.225
2.260	5.779	1.221	2.285	5.878	1.225
2.261	5.783	1.221	2.286	5.882	1.225
2.262	5.787	1.222	2.287	5.886	1.225
2.263	5.791	1.222	2.288	5.890	1.225
2.264	5.795	1.222	2.289	5.994	1.225
2.265	5.799	1.222	2.290	5.998	1.226
2.266	5.803	1.222	2.291	5.902	1.226
2.267	5.807	1.222	2.292	5.906	1.226
2.268	5.811	1.222	2.293	5.910	1.226
2.269	5.815	1.223	2.294	5.914	1.226
2.270	5.819	1.223	2.295	5.918	1.226
2.271	5.823	1.223	2.296	5.922	1.226
2.272	5.827	1.223	2.297	5.926	1.227
2.273	5.830	1.223	2.298	5.930	1.227
2.274	5.834	1.223	2.299	5.934	1.227

$\underline{M_1}$	$\overline{P'_O/P_s}$	$\overline{P_s/P_1}$	$\underline{M_1}$	$\overline{P'_O/P_s}$	$\overline{P_s/P_1}$
2.300	5.938	1.227	2.325	6.042	1.231
2.301	5.942	1.227	2.326	6.046	1.231
2.302	5.946	1.227	2.327	6.051	1.231
2.303	5.950	1.227	2.328	6.055	1.231
2.304	5.954	1.228	2.329	6.059	1.231
2.305	5.958	1.228	2.330	6.063	1.231
2.306	5.962	1.228	2.331	6.068	1.232
2.307	5.966	1.228	2.332	6.072	1.232
2.308	5.970	1.228	2.333	6.076	1.232
2.309	5.974	1.228	2.334	6.080	1.232
2.310	5.978	1.228	2.335	6.085	1.232
2.311	5.983	1.229	2.336	6.089	1.232
2.312	5.987	1.229	2.337	6.093	1.233
2.313	5.991	1.229	2.338	6.097	1.233
2.314	5.995	1.229	2.339	6.102	1.233
2.315	6.000	1.229	2.340	6.106	1.233
2.316	6.004	1.229	2.341	6.110	1.233
2.317	6.008	1.229	2.342	6.114	1.233
2.318	6.012	1.230	2.343	6.119	1.233
2.319	6.017	1.230	2.344	6.123	1.234
2.320	6.021	1.230	2.345	6.127	1.234
2.321	6.025	1.230	2.346	6.131	1.234
2.322	6.029	1.230	2.347	6.136	1.234
2.323	6.034	1.230	2.348	6.140	1.234
2.324	6.038	1.231	2.349	6.144	1.234

<u>M<sub>1</sub></u>	<u>P'<sub>0</sub>/P<sub>s</sub></u>	<u>P<sub>s</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>0</sub>/P<sub>s</sub></u>	<u>P<sub>s</sub>/P<sub>1</sub></u>
2.350	6.148	1.235	2.375	6.255	1.238
2.351	6.153	1.235	2.376	6.259	1.239
2.352	6.157	1.235	2.377	6.264	1.239
2.353	6.161	1.235	2.378	6.268	1.239
2.354	6.166	1.235	2.379	6.272	1.239
2.355	6.170	1.235	2.380	6.276	1.239
2.356	6.174	1.235	2.381	6.281	1.239
2.357	6.178	1.236	2.382	6.285	1.239
2.358	6.183	1.236	2.383	6.289	1.240
2.359	6.187	1.236	2.384	6.293	1.240
2.360	6.191	1.236	2.385	6.298	1.240
2.361	6.195	1.236	2.386	6.302	1.240
2.362	6.200	1.236	2.387	6.306	1.240
2.363	6.204	1.237	2.388	6.311	1.240
2.364	6.208	1.237	2.389	6.315	1.241
2.365	6.212	1.237	2.390	6.319	1.241
2.366	6.217	1.237	2.391	6.323	1.241
2.367	6.221	1.237	2.392	6.328	1.241
2.368	6.225	1.237	2.393	6.332	1.241
2.369	6.229	1.237	2.394	6.336	1.241
2.370	6.234	1.238	2.395	6.340	1.241
2.371	6.238	1.238	2.396	6.345	1.242
2.372	6.242	1.238	2.397	6.349	1.242
2.373	6.246	1.238	2.398	6.353	1.242
2.374	6.251	1.238	2.399	6.358	1.242

$M_1$	$P'_0/\bar{P}_s$	$\bar{P}_s/P_1$	$M_1$	$P'_0/\bar{P}_s$	$\bar{P}_s/P_1$
2.400	6.362	1.242	2.425	6.469	1.246
2.401	6.366	1.242	2.426	6.473	1.246
2.402	6.370	1.243	2.427	6.477	1.246
2.403	6.375	1.243	2.428	6.482	1.247
2.404	6.379	1.243	2.429	6.486	1.247
2.405	6.383	1.243	2.430	6.490	1.247
2.406	6.387	1.243	2.431	6.494	1.247
2.407	6.392	1.243	2.432	6.499	1.247
2.408	6.396	1.244	2.433	6.503	1.247
2.409	6.400	1.244	2.434	6.507	1.248
2.410	6.405	1.244	2.435	6.512	1.248
2.411	6.409	1.244	2.436	6.516	1.248
2.412	6.413	1.244	2.437	6.520	1.248
2.413	6.417	1.244	2.438	6.524	1.248
2.414	6.422	1.244	2.439	6.529	1.248
2.415	6.426	1.245	2.440	6.533	1.249
2.416	6.430	1.245	2.441	6.537	1.249
2.417	6.434	1.245	2.442	6.542	1.249
2.418	6.439	1.245	2.443	6.546	1.249
2.419	6.443	1.245	2.444	6.550	1.249
2.420	6.447	1.245	2.445	6.554	1.249
2.421	6.452	1.246	2.446	6.559	1.249
2.422	6.456	1.246	2.447	6.563	1.250
2.423	6.460	1.246	2.448	6.567	1.250
2.424	6.464	1.246	2.449	6.572	1.250

$M_1$	$\overline{P'_O/P_s}$	$\overline{P_s/P_1}$	$M_1$	$\overline{P'_O/P_s}$	$\overline{P_s/P_1}$
2.450	6.576	1.250	2.475	6.683	1.254
2.451	6.580	1.250	2.476	6.688	1.254
2.452	6.585	1.250	2.477	6.692	1.254
2.453	6.589	1.251	2.478	6.696	1.255
2.454	6.593	1.251	2.479	6.700	1.255
2.455	6.597	1.251	2.480	6.705	1.255
2.456	6.602	1.251	2.481	6.709	1.255
2.457	6.606	1.251	2.482	6.713	1.255
2.458	6.610	1.251	2.483	6.718	1.255
2.459	6.615	1.252	2.484	6.722	1.256
2.460	6.619	1.252	2.485	6.726	1.256
2.461	6.623	1.252	2.486	6.731	1.256
2.462	6.627	1.252	2.487	6.735	1.256
2.463	6.632	1.252	2.488	6.739	1.256
2.464	6.636	1.252	2.489	6.743	1.256
2.465	6.640	1.252	2.490	6.748	1.256
2.466	6.645	1.253	2.491	6.752	1.257
2.467	6.649	1.253	2.492	6.756	1.257
2.468	6.653	1.253	2.493	6.761	1.257
2.469	6.657	1.253	2.494	6.765	1.257
2.470	6.662	1.253	2.495	6.770	1.257
2.471	6.666	1.253	2.496	6.774	1.257
2.472	6.670	1.254	2.497	6.778	1.258
2.473	6.675	1.254	2.498	6.782	1.258
2.474	6.679	1.254	2.499	6.787	1.258

$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$
2.500	6.791	1.258	2.525	6.899	1.262
2.501	6.795	1.258	2.526	6.903	1.262
2.502	6.799	1.258	2.527	6.907	1.262
2.503	6.803	1.259	2.528	6.912	1.263
2.504	6.808	1.259	2.529	6.916	1.263
2.505	6.812	1.259	2.530	6.920	1.263
2.506	6.817	1.259	2.531	6.924	1.263
2.507	6.821	1.259	2.532	6.929	1.263
2.508	6.825	1.259	2.533	6.933	1.263
2.509	6.830	1.260	2.534	6.937	1.264
2.510	6.834	1.260	2.535	6.942	1.264
2.511	6.838	1.260	2.536	6.946	1.264
2.512	6.842	1.260	2.537	6.950	1.264
2.513	6.847	1.260	2.538	6.955	1.264
2.514	6.851	1.260	2.539	6.959	1.264
2.515	6.855	1.260	2.540	6.963	1.265
2.516	6.860	1.261	2.541	6.968	1.265
2.517	6.864	1.261	2.542	6.972	1.265
2.518	6.868	1.261	2.543	6.976	1.265
2.519	6.873	1.261	2.544	6.981	1.265
2.520	6.877	1.261	2.545	6.985	1.265
2.521	6.881	1.261	2.546	6.989	1.265
2.522	6.886	1.262	2.547	6.994	1.266
2.523	6.890	1.262	2.548	6.998	1.266
2.524	6.894	1.262	2.549	7.002	1.266

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
2.550	7.007	1.266	2.575	7.115	1.270
2.551	7.011	1.266	2.576	7.119	1.270
2.552	7.015	1.266	2.577	7.123	1.271
2.553	7.020	1.267	2.578	7.128	1.271
2.554	7.024	1.267	2.579	7.132	1.271
2.555	7.028	1.267	2.580	7.136	1.271
2.556	7.032	1.267	2.581	7.141	1.271
2.557	7.037	1.267	2.582	7.145	1.271
2.558	7.041	1.267	2.583	7.149	1.272
2.559	7.046	1.268	2.584	7.153	1.272
2.560	7.050	1.268	2.585	7.158	1.272
2.561	7.054	1.268	2.586	7.162	1.272
2.562	7.058	1.268	2.587	7.167	1.272
2.563	7.063	1.268	2.588	7.171	1.272
2.564	7.067	1.268	2.589	7.175	1.273
2.565	7.071	1.269	2.590	7.180	1.273
2.566	7.076	1.269	2.591	7.184	1.273
2.567	7.080	1.269	2.592	7.188	1.273
2.568	7.084	1.269	2.593	7.193	1.273
2.569	7.089	1.269	2.594	7.197	1.273
2.570	7.093	1.269	2.595	7.201	1.273
2.571	7.097	1.270	2.596	7.206	1.274
2.572	7.102	1.270	2.597	7.210	1.274
2.573	7.106	1.270	2.598	7.214	1.274
2.574	7.110	1.270	2.599	7.219	1.274

$M_1$	$P'_O/\bar{P}_s$	$\bar{P}_s/P_1$	$M_1$	$P'_O/\bar{P}_s$	$\bar{P}_s/P_1$
2.600	7.223	1.274	2.625	7.332	1.278
2.601	7.227	1.274	2.626	7.336	1.279
2.602	7.232	1.275	2.627	7.340	1.279
2.603	7.236	1.275	2.628	7.345	1.279
2.604	7.240	1.275	2.629	7.349	1.279
2.605	7.245	1.275	2.630	7.353	1.279
2.606	7.249	1.275	2.631	7.358	1.279
2.607	7.253	1.275	2.632	7.362	1.280
2.608	7.258	1.276	2.633	7.366	1.280
2.609	7.262	1.276	2.634	7.371	1.280
2.610	7.266	1.276	2.635	7.375	1.280
2.611	7.271	1.276	2.636	7.379	1.280
2.612	7.275	1.276	2.637	7.384	1.280
2.613	7.279	1.276	2.638	7.388	1.281
2.614	7.284	1.277	2.639	7.392	1.281
2.615	7.288	1.277	2.640	7.397	1.281
2.616	7.292	1.277	2.641	7.401	1.281
2.617	7.297	1.277	2.642	7.406	1.281
2.618	7.301	1.277	2.643	7.410	1.281
2.619	7.306	1.277	2.644	7.414	1.282
2.620	7.310	1.278	2.645	7.419	1.282
2.621	7.314	1.278	2.646	7.423	1.282
2.622	7.319	1.278	2.647	7.427	1.282
2.623	7.323	1.278	2.648	7.432	1.282
2.624	7.327	1.278	2.649	7.436	1.282



<u>M<sub>1</sub></u>	<u>P<sub>0</sub>'/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P<sub>0</sub>'/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>
2.650	7.440	1.283	2.675	7.549	1.287
2.651	7.445	1.283	2.676	7.554	1.287
2.652	7.449	1.283	2.677	7.558	1.287
2.653	7.453	1.283	2.678	7.562	1.287
2.654	7.458	1.283	2.679	7.567	1.287
2.655	7.462	1.283	2.680	7.571	1.288
2.656	7.467	1.284	2.681	7.576	1.288
2.657	7.471	1.284	2.682	7.580	1.288
2.658	7.475	1.284	2.683	7.584	1.288
2.659	7.480	1.284	2.684	7.589	1.288
2.660	7.484	1.284	2.685	7.593	1.288
2.661	7.488	1.284	2.686	7.597	1.289
2.662	7.493	1.285	2.687	7.602	1.289
2.663	7.497	1.285	2.688	7.606	1.289
2.664	7.501	1.285	2.689	7.610	1.289
2.665	7.506	1.285	2.690	7.615	1.289
2.666	7.510	1.285	2.691	7.619	1.289
2.667	7.514	1.285	2.692	7.624	1.290
2.668	7.519	1.286	2.693	7.628	1.290
2.669	7.523	1.286	2.694	7.632	1.290
2.670	7.528	1.286	2.695	7.637	1.290
2.671	7.532	1.286	2.696	7.641	1.290
2.672	7.536	1.286	2.697	7.645	1.290
2.673	7.541	1.286	2.698	7.650	1.291
2.674	7.545	1.287	2.699	7.654	1.291

<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>
2.700	7.658	1.291	2.725	7.768	1.295
2.701	7.663	1.291	2.726	7.772	1.295
2.702	7.667	1.291	2.727	7.777	1.296
2.703	7.672	1.292	2.728	7.781	1.296
2.704	7.676	1.292	2.729	7.785	1.296
2.705	7.680	1.292	2.730	7.790	1.296
2.706	7.685	1.292	2.731	7.794	1.296
2.707	7.689	1.292	2.732	7.798	1.296
2.708	7.693	1.292	2.733	7.803	1.297
2.709	7.701	1.293	2.734	7.807	1.297
2.710	7.702	1.293	2.735	7.812	1.297
2.711	7.707	1.293	2.736	7.816	1.297
2.712	7.711	1.293	2.737	7.820	1.297
2.713	7.715	1.293	2.738	7.825	1.297
2.714	7.720	1.293	2.739	7.829	1.298
2.715	7.724	1.294	2.740	7.834	1.298
2.716	7.728	1.294	2.741	7.838	1.298
2.717	7.733	1.294	2.742	7.842	1.298
2.718	7.737	1.294	2.743	7.847	1.298
2.719	7.742	1.294	2.744	7.851	1.298
2.720	7.746	1.294	2.745	7.855	1.299
2.721	7.750	1.295	2.746	7.860	1.299
2.722	7.755	1.295	2.747	7.864	1.299
2.723	7.759	1.295	2.748	7.869	1.299
2.724	7.763	1.295	2.749	7.873	1.299

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
2.750	7.877	1.300	2.775	7.987	1.304
2.751	7.882	1.300	2.776	7.992	1.304
2.752	7.886	1.300	2.777	7.996	1.304
2.753	7.891	1.300	2.778	8.000	1.304
2.754	7.895	1.300	2.779	8.005	1.304
2.755	7.899	1.300	2.780	8.009	1.305
2.756	7.904	1.301	2.781	8.014	1.305
2.757	7.908	1.301	2.782	8.018	1.305
2.758	7.912	1.301	2.783	8.022	1.305
2.759	7.917	1.301	2.784	8.027	1.305
2.760	7.921	1.301	2.785	8.031	1.306
2.761	7.926	1.301	2.786	8.035	1.306
2.762	7.930	1.302	2.787	8.040	1.306
2.763	7.934	1.302	2.788	8.044	1.306
2.764	7.939	1.302	2.789	8.049	1.306
2.765	7.943	1.302	2.790	8.053	1.306
2.766	7.948	1.302	2.791	8.057	1.307
2.767	7.952	1.302	2.792	8.062	1.307
2.768	7.956	1.303	2.793	8.066	1.307
2.769	7.961	1.303	2.794	8.071	1.307
2.770	7.965	1.303	2.795	8.075	1.307
2.771	7.970	1.303	2.796	8.079	1.307
2.772	7.974	1.303	2.797	8.084	1.308
2.773	7.978	1.303	2.798	8.088	1.308
2.774	7.983	1.304	2.799	8.093	1.308

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
2.800	8.097	1.308	2.825	8.207	1.312
2.801	8.101	1.308	2.826	8.212	1.313
2.802	8.106	1.308	2.827	8.216	1.313
2.803	8.110	1.309	2.828	8.220	1.313
2.804	8.115	1.309	2.829	8.225	1.313
2.805	8.119	1.309	2.830	8.229	1.313
2.806	8.124	1.309	2.831	8.234	1.314
2.807	8.128	1.309	2.832	8.238	1.314
2.808	8.132	1.309	2.833	8.242	1.314
2.809	8.137	1.310	2.834	8.247	1.314
2.810	8.141	1.310	2.835	8.251	1.314
2.811	8.146	1.310	2.836	8.256	1.314
2.812	8.150	1.310	2.837	8.260	1.315
2.813	8.154	1.310	2.838	8.265	1.315
2.814	8.159	1.311	2.839	8.269	1.315
2.815	8.163	1.311	2.840	8.273	1.315
2.816	8.168	1.311	2.841	8.278	1.315
2.817	8.172	1.311	2.842	8.282	1.315
2.818	8.176	1.311	2.843	8.287	1.316
2.819	8.181	1.311	2.844	8.291	1.316
2.820	8.185	1.312	2.845	8.295	1.316
2.821	8.190	1.312	2.846	8.300	1.316
2.822	8.194	1.312	2.847	8.304	1.316
2.823	8.198	1.312	2.848	8.309	1.316
2.824	8.203	1.312	2.849	8.313	1.317

$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$
2.850	8.318	1.317	2.875	8.428	1.321
2.851	8.322	1.317	2.876	8.433	1.321
2.852	8.326	1.317	2.877	8.437	1.322
2.853	8.331	1.317	2.878	8.441	1.322
2.854	8.335	1.318	2.879	8.446	1.322
2.855	8.339	1.318	2.880	8.450	1.322
2.856	8.344	1.318	2.881	8.455	1.322
2.857	8.349	1.318	2.882	8.459	1.322
2.858	8.353	1.318	2.883	8.464	1.323
2.859	8.357	1.318	2.884	8.468	1.323
2.860	8.362	1.319	2.885	8.472	1.323
2.861	8.366	1.319	2.886	8.477	1.323
2.862	8.371	1.319	2.887	8.481	1.323
2.863	8.375	1.319	2.888	8.486	1.324
2.864	8.379	1.319	2.889	8.490	1.324
2.865	8.384	1.319	2.890	8.495	1.324
2.866	8.388	1.320	2.891	8.499	1.324
2.867	8.393	1.320	2.892	8.503	1.324
2.868	8.397	1.320	2.893	8.508	1.324
2.869	8.402	1.320	2.894	8.512	1.325
2.870	8.406	1.320	2.895	8.517	1.325
2.871	8.410	1.321	2.896	8.521	1.325
2.872	8.415	1.321	2.897	8.526	1.325
2.873	8.419	1.321	2.898	8.530	1.325
2.874	8.424	1.321	2.899	8.534	1.325

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
2.900	8.539	1.326	2.925	8.650	1.330
2.901	8.543	1.326	2.926	8.654	1.330
2.902	8.548	1.326	2.927	8.659	1.330
2.903	8.552	1.326	2.928	8.663	1.331
2.904	8.557	1.326	2.929	8.668	1.331
2.905	8.561	1.327	2.930	8.672	1.331
2.906	8.565	1.327	2.931	8.676	1.331
2.907	8.570	1.327	2.932	8.681	1.331
2.908	8.574	1.327	2.933	8.685	1.332
2.909	8.579	1.327	2.934	8.690	1.332
2.910	8.583	1.327	2.935	8.694	1.332
2.911	8.588	1.328	2.936	8.699	1.332
2.912	8.592	1.328	2.937	8.703	1.332
2.913	8.597	1.328	2.938	8.708	1.332
2.914	8.601	1.328	2.939	8.712	1.333
2.915	8.605	1.328	2.940	8.716	1.333
2.916	8.610	1.329	2.941	8.721	1.333
2.917	8.614	1.329	2.942	8.725	1.333
2.918	8.619	1.329	2.943	8.730	1.333
2.919	8.623	1.329	2.944	8.734	1.334
2.920	8.628	1.329	2.945	8.739	1.334
2.921	8.632	1.329	2.946	8.743	1.334
2.922	8.636	1.330	2.947	8.748	1.334
2.923	8.641	1.330	2.948	8.752	1.334
2.924	8.645	1.330	8.949	8.757	1.334

<u>M<sub>1</sub></u>	<u>P'<sub>0</sub>/P<sub>s</sub></u>	<u>P<sub>s</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>0</sub>/P<sub>s</sub></u>	<u>P<sub>s</sub>/P<sub>1</sub></u>
2.950	8.761	1.335	2.975	8.872	1.339
2.951	8.765	1.335	2.976	8.877	1.339
2.952	8.770	1.335	2.977	8.881	1.339
2.953	8.774	1.335	2.978	8.886	1.340
2.954	8.779	1.335	2.979	8.890	1.340
2.955	8.783	1.335	2.980	8.895	1.340
2.956	8.788	1.336	2.981	8.899	1.340
2.957	8.792	1.336	2.982	8.904	1.340
2.958	8.797	1.336	2.983	8.908	1.341
2.959	8.801	1.336	2.984	8.912	1.341
2.960	8.805	1.336	2.985	8.917	1.341
2.961	8.810	1.337	2.986	8.921	1.341
2.962	8.814	1.337	2.987	8.926	1.341
2.963	8.819	1.337	2.988	8.930	1.341
2.964	8.823	1.337	2.989	8.935	1.342
2.965	8.828	1.337	2.990	8.939	1.342
2.966	8.832	1.337	2.991	8.944	1.342
2.967	8.837	1.338	2.992	8.948	1.342
2.968	8.841	1.338	2.993	8.953	1.342
2.969	8.846	1.338	2.994	8.957	1.343
2.970	8.850	1.338	2.995	8.962	1.343
2.971	8.854	1.338	2.996	8.966	1.343
2.972	8.859	1.339	2.997	8.970	1.343
2.973	8.863	1.339	2.998	8.975	1.343
2.974	8.868	1.339	2.999	8.979	1.343

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.000	8.984	1.344	3.025	9.096	1.348
3.001	8.988	1.344	3.026	9.100	1.348
3.002	8.993	1.344	3.027	9.105	1.349
3.003	8.997	1.344	3.028	9.109	1.349
3.004	9.002	1.344	3.029	9.113	1.349
3.005	9.006	1.345	3.030	9.118	1.349
3.006	9.011	1.345	3.031	9.122	1.349
3.007	9.015	1.345	3.032	9.127	1.349
3.008	9.020	1.345	3.033	9.131	1.350
3.009	9.024	1.345	3.034	9.136	1.350
3.010	9.029	1.345	3.035	9.140	1.350
3.011	9.033	1.346	3.036	9.145	1.350
3.012	9.037	1.346	3.037	9.149	1.350
3.013	9.042	1.346	3.038	9.154	1.351
3.014	9.046	1.346	3.039	9.158	1.351
3.015	9.051	1.346	3.040	9.163	1.351
3.016	9.055	1.347	3.041	9.167	1.351
3.017	9.060	1.347	3.042	9.172	1.351
3.018	9.064	1.347	3.043	9.176	1.352
3.019	9.069	1.347	3.044	9.181	1.352
3.020	9.073	1.347	3.045	9.185	1.352
3.021	9.078	1.347	3.046	9.190	1.352
3.022	9.082	1.348	3.047	9.194	1.352
3.023	9.087	1.348	3.048	9.199	1.352
3.024	9.091	1.348	3.049	9.203	1.353



$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.050	9.208	1.353	3.075	9.320	1.357
3.051	9.212	1.353	3.076	9.324	1.358
3.052	9.216	1.353	3.077	9.329	1.358
3.053	9.221	1.353	3.078	9.334	1.358
3.054	9.225	1.354	3.079	9.338	1.358
3.055	9.230	1.354	3.080	9.342	1.358
3.056	9.234	1.354	3.081	9.347	1.359
3.057	9.239	1.354	3.082	9.351	1.359
3.058	9.243	1.354	3.083	9.356	1.359
3.059	9.248	1.354	3.084	9.360	1.359
3.060	9.252	1.355	3.085	9.365	1.359
3.061	9.257	1.355	3.086	9.369	1.359
3.062	9.261	1.355	3.087	9.374	1.360
3.063	9.266	1.355	3.088	9.378	1.360
3.064	9.270	1.355	3.089	9.383	1.360
3.065	9.275	1.356	3.090	9.387	1.360
3.066	9.279	1.356	3.091	9.392	1.360
3.067	9.284	1.356	3.092	9.396	1.361
3.068	9.288	1.356	3.093	9.401	1.361
3.069	9.293	1.356	3.094	9.405	1.361
3.070	9.297	1.356	3.095	9.400	1.361
3.071	9.302	1.357	3.096	9.414	1.361
3.072	9.306	1.357	3.097	9.418	1.362
3.073	9.311	1.357	3.098	9.423	1.362
3.074	9.315	1.357	3.099	9.427	1.362

<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>
3.100	9.432	1.362	3.125	9.545	1.367
3.101	9.436	1.362	3.126	9.549	1.367
3.102	9.441	1.362	3.127	9.554	1.367
3.103	9.445	1.363	3.128	9.558	1.367
3.104	9.450	1.363	3.129	9.563	1.367
3.105	9.454	1.363	3.130	9.567	1.368
3.106	9.459	1.363	3.131	9.572	1.368
3.107	9.463	1.363	3.132	9.576	1.368
3.108	9.468	1.364	3.133	9.581	1.368
3.109	9.472	1.364	3.134	9.585	1.368
3.110	9.477	1.364	3.135	9.590	1.369
3.111	9.481	1.364	3.136	9.594	1.369
3.112	9.486	1.364	3.137	9.599	1.369
3.113	9.490	1.364	3.138	9.603	1.369
3.114	9.495	1.365	3.139	9.608	1.369
3.115	9.499	1.365	3.140	9.612	1.370
3.116	9.504	1.365	3.141	9.617	1.370
3.117	9.508	1.365	3.142	9.621	1.370
3.118	9.513	1.365	3.143	9.626	1.370
3.119	9.517	1.366	3.144	9.630	1.370
3.120	9.522	1.366	3.145	9.635	1.370
3.121	9.527	1.366	3.146	9.639	1.371
3.122	9.531	1.366	3.147	9.644	1.371
3.123	9.536	1.366	3.148	9.648	1.371
3.124	9.540	1.367	3.149	9.653	1.371

<u>M<sub>1</sub></u>	<u>P<sub>O</sub>'/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P<sub>O</sub>'/P<sub>S</sub></u>	<u>P<sub>S</sub>/P<sub>1</sub></u>
3.150	9.657	1.371	3.175	9.770	1.376
3.151	9.662	1.372	3.176	9.775	1.376
3.152	9.666	1.372	3.177	9.779	1.377
3.153	9.671	1.372	3.178	9.784	1.377
3.154	9.675	1.372	3.179	9.788	1.377
3.155	9.680	1.372	3.180	9.793	1.377
3.156	9.684	1.373	3.181	9.797	1.377
3.157	9.689	1.373	3.182	9.802	1.377
3.158	9.693	1.373	3.183	9.806	1.378
3.159	9.698	1.373	3.184	9.811	1.378
3.160	9.702	1.373	3.185	9.815	1.378
3.161	9.707	1.374	3.186	9.820	1.378
3.162	9.711	1.374	3.187	9.824	1.378
3.163	9.716	1.374	3.188	9.829	1.379
3.164	9.720	1.374	3.189	9.834	1.379
3.165	9.725	1.374	3.190	9.838	1.379
3.166	9.730	1.374	3.191	9.843	1.379
3.167	9.734	1.375	3.192	9.847	1.379
3.168	9.739	1.375	3.193	9.852	1.380
3.169	9.743	1.375	3.194	9.856	1.380
3.170	9.748	1.375	3.195	9.861	1.380
3.171	9.752	1.375	3.196	9.865	1.380
3.172	9.757	1.376	3.197	9.870	1.380
3.173	9.761	1.376	3.198	9.874	1.381
3.174	9.766	1.376	3.199	9.879	1.381

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.200	9.883	1.381	3.225	9.997	1.386
3.201	9.888	1.381	3.226	10.001	1.386
3.202	9.892	1.381	3.227	10.006	1.386
3.203	9.897	1.381	3.228	10.010	1.386
3.204	9.901	1.382	3.229	10.015	1.386
3.205	9.906	1.382	3.230	10.019	1.387
3.206	9.911	1.382	3.231	10.024	1.387
3.207	9.915	1.382	3.232	10.028	1.387
3.208	9.920	1.382	3.233	10.033	1.387
3.209	9.924	1.383	3.234	10.038	1.387
3.210	9.929	1.383	3.235	10.042	1.388
3.211	9.933	1.383	3.236	10.047	1.388
3.212	9.938	1.383	3.237	10.051	1.388
3.213	9.942	1.383	3.238	10.056	1.388
3.214	9.947	1.384	3.239	10.060	1.388
3.215	9.951	1.384	3.240	10.065	1.389
3.216	9.956	1.384	3.241	10.069	1.389
3.217	9.960	1.384	3.242	10.074	1.389
3.218	9.965	1.384	3.243	10.078	1.389
3.219	9.969	1.385	3.244	10.083	1.389
3.220	9.974	1.385	3.245	10.087	1.390
3.221	9.979	1.385	3.246	10.092	1.390
3.222	9.983	1.385	3.247	10.097	1.390
3.223	9.988	1.385	3.248	10.101	1.390
3.224	9.992	1.385	3.249	10.106	1.390

<u>M<sub>1</sub></u>	<u>P<sub>0</sub>'/P<sub>s</sub></u>	<u>P<sub>s</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P<sub>0</sub>'/P<sub>s</sub></u>	<u>P<sub>s</sub>/P<sub>1</sub></u>
3.250	10.110	1.391	3.275	10.224	1.395
3.251	10.115	1.391	3.276	10.228	1.396
3.252	10.119	1.391	3.277	10.233	1.396
3.253	10.124	1.391	3.278	10.238	1.396
3.254	10.128	1.391	3.279	10.242	1.396
3.255	10.133	1.391	3.280	10.247	1.396
3.256	10.137	1.392	3.281	10.251	1.396
3.257	10.142	1.392	3.282	10.256	1.397
3.258	10.147	1.392	3.283	10.260	1.397
3.259	10.151	1.392	3.284	10.265	1.397
3.260	10.156	1.392	3.285	10.269	1.397
3.261	10.160	1.393	3.286	10.274	1.397
3.262	10.165	1.393	3.287	10.279	1.398
3.263	10.169	1.393	3.288	10.283	1.398
3.264	10.174	1.393	3.289	10.288	1.398
3.265	10.178	1.393	3.290	10.292	1.398
3.266	10.183	1.394	3.291	10.297	1.398
3.267	10.187	1.394	3.292	10.301	1.399
3.268	10.192	1.394	3.293	10.306	1.399
3.269	10.197	1.394	3.294	10.310	1.399
3.270	10.201	1.394	3.295	10.315	1.399
3.271	10.206	1.395	3.296	10.320	1.399
3.272	10.210	1.395	3.297	10.324	1.400
3.273	10.215	1.395	3.298	10.329	1.400
3.274	10.219	1.395	3.299	10.333	1.400

<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P̄<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P̄<sub>S</sub>/P<sub>1</sub></u>
3.300	10.338	1.400	3.325	10.452	1.405
3.301	10.342	1.400	3.326	10.457	1.405
3.302	10.347	1.401	3.327	10.461	1.405
3.303	10.352	1.401	3.328	10.466	1.406
3.304	10.356	1.401	3.329	10.470	1.406
3.305	10.361	1.401	3.330	10.475	1.406
3.306	10.365	1.401	3.331	10.479	1.406
3.307	10.370	1.402	3.332	10.484	1.406
3.308	10.374	1.402	3.333	10.489	1.407
3.309	10.379	1.402	3.334	10.493	1.407
3.310	10.383	1.402	3.335	10.498	1.407
3.311	10.388	1.402	3.336	10.502	1.407
3.312	10.393	1.403	3.337	10.507	1.407
3.313	10.397	1.403	3.338	10.511	1.408
3.314	10.402	1.403	3.339	10.516	1.408
3.315	10.406	1.403	3.340	10.521	1.408
3.316	10.411	1.403	3.341	10.525	1.408
3.317	10.415	1.404	3.342	10.530	1.408
3.318	10.420	1.404	3.343	10.534	1.409
3.319	10.425	1.404	3.344	10.539	1.409
3.320	10.429	1.404	3.345	10.543	1.409
3.321	10.434	1.404	3.346	10.548	1.409
3.322	10.438	1.404	3.347	10.553	1.409
3.323	10.443	1.405	3.348	10.557	1.410
3.324	10.447	1.405	3.349	10.562	1.410

<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P̄<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P̄<sub>S</sub>/P<sub>1</sub></u>
3.350	10.566	1.410	3.375	10.681	1.415
3.351	10.571	1.410	3.376	10.685	1.415
3.352	10.575	1.410	3.377	10.690	1.415
3.353	10.580	1.411	3.378	10.695	1.416
3.354	10.585	1.411	3.379	10.699	1.416
3.355	10.589	1.411	3.380	10.704	1.416
3.356	10.594	1.411	3.381	10.708	1.416
3.357	10.598	1.411	3.382	10.713	1.416
3.358	10.603	1.412	3.383	10.718	1.417
3.359	10.607	1.412	3.384	10.722	1.417
3.360	10.612	1.412	3.385	10.727	1.417
3.361	10.617	1.412	3.386	10.731	1.417
3.362	10.621	1.412	3.387	10.736	1.417
3.363	10.626	1.413	3.388	10.740	1.418
3.364	10.630	1.413	3.389	10.745	1.418
3.365	10.635	1.413	3.390	10.750	1.418
3.366	10.640	1.413	3.391	10.754	1.418
3.367	10.644	1.413	3.392	10.759	1.418
3.368	10.649	1.414	3.393	10.763	1.419
3.369	10.653	1.414	3.394	10.768	1.419
3.370	10.658	1.414	3.395	10.773	1.419
3.371	10.662	1.414	3.396	10.777	1.419
3.372	10.667	1.414	3.397	10.782	1.419
3.373	10.672	1.415	3.398	10.786	1.420
3.374	10.676	1.415	3.399	10.791	1.420

$M_1$	$P'_0/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_0/\bar{P}_S$	$\bar{P}_S/P_1$
3.400	10.796	1.420	3.425	10.910	1.425
3.401	10.800	1.420	3.426	10.915	1.425
3.402	10.805	1.420	3.427	10.920	1.425
3.403	10.809	1.421	3.428	10.924	1.426
3.404	10.814	1.421	3.429	10.929	1.426
3.405	10.818	1.421	3.430	10.933	1.426
3.406	10.823	1.421	3.431	10.938	1.426
3.407	10.828	1.421	3.432	10.943	1.426
3.408	10.832	1.422	3.433	10.947	1.427
3.409	10.837	1.422	3.434	10.952	1.427
3.410	10.841	1.422	3.435	10.957	1.427
3.411	10.846	1.422	3.436	10.961	1.427
3.412	10.851	1.422	3.437	10.966	1.427
3.413	10.855	1.423	3.438	10.970	1.428
3.414	10.860	1.423	3.439	10.975	1.428
3.415	10.864	1.423	3.440	10.979	1.428
3.416	10.869	1.423	3.441	10.984	1.428
3.417	10.874	1.423	3.442	10.989	1.428
3.418	10.878	1.424	3.443	10.993	1.429
3.419	10.883	1.424	3.444	10.998	1.429
3.420	10.887	1.424	3.445	11.003	1.429
3.421	10.892	1.424	3.446	11.007	1.429
3.422	10.897	1.424	3.447	11.012	1.429
3.423	10.901	1.425	3.448	11.016	1.430
3.424	10.906	1.425	3.449	11.021	1.430



$M_1$	$P'_O/P'_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/P'_S$	$\bar{P}_S/P_1$
3.450	11.026	1.430	3.475	11.141	1.435
3.451	11.030	1.430	3.476	11.146	1.435
3.452	11.035	1.430	3.477	11.150	1.435
3.453	11.040	1.431	3.478	11.155	1.436
3.454	11.044	1.431	3.479	11.159	1.436
3.455	11.049	1.431	3.480	11.164	1.436
3.456	11.053	1.431	3.481	11.169	1.436
3.457	11.058	1.431	3.482	11.173	1.436
3.458	11.062	1.432	3.483	11.178	1.437
3.459	11.067	1.432	3.484	11.182	1.437
3.460	11.072	1.432	3.485	11.187	1.437
3.461	11.076	1.432	3.486	11.192	1.437
3.462	11.084	1.432	3.487	11.196	1.437
3.463	11.086	1.433	3.488	11.201	1.438
3.464	11.090	1.433	3.489	11.205	1.438
3.465	11.095	1.433	3.490	11.210	1.438
3.466	11.099	1.433	3.491	11.215	1.438
3.467	11.104	1.433	3.492	11.219	1.438
3.468	11.109	1.434	3.493	11.224	1.439
3.469	11.113	1.434	3.494	11.229	1.439
3.470	11.118	1.434	3.495	11.233	1.439
3.471	11.122	1.434	3.496	11.238	1.439
3.472	11.127	1.434	3.497	11.243	1.439
3.473	11.132	1.435	3.498	11.247	1.440
3.474	11.136	1.435	3.499	11.252	1.440

$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$
3.500	11.256	1.440	3.525	11.372	1.445
3.501	11.261	1.440	3.526	11.377	1.445
3.502	11.266	1.440	3.527	11.381	1.446
3.503	11.270	1.441	3.528	11.386	1.446
3.504	11.275	1.441	3.529	11.391	1.446
3.505	11.280	1.441	3.530	11.395	1.446
3.506	11.284	1.441	3.531	11.400	1.446
3.507	11.289	1.441	3.532	11.405	1.447
3.508	11.293	1.442	3.533	11.409	1.447
3.509	11.298	1.442	3.534	11.414	1.447
3.510	11.303	1.442	3.535	11.418	1.447
3.511	11.307	1.442	3.536	11.423	1.447
3.512	11.312	1.443	3.537	11.428	1.448
3.513	11.317	1.443	3.538	11.432	1.448
3.514	11.321	1.443	3.539	11.437	1.448
3.515	11.326	1.443	3.540	11.442	1.448
3.516	11.330	1.443	3.541	11.446	1.448
3.517	11.335	1.444	3.542	11.451	1.449
3.518	11.340	1.444	3.543	11.456	1.449
3.519	11.344	1.444	3.544	11.460	1.449
3.520	11.349	1.444	3.545	11.465	1.449
3.521	11.354	1.444	3.546	11.470	1.449
3.522	11.358	1.445	3.547	11.474	1.450
3.523	11.363	1.445	3.548	11.479	1.450
3.524	11.368	1.445	3.549	11.483	1.450

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.550	11.488	1.450	3.575	11.604	1.455
3.551	11.493	1.451	3.576	11.609	1.456
3.552	11.497	1.451	3.577	11.613	1.456
3.553	11.502	1.451	3.578	11.618	1.456
3.554	11.507	1.451	3.579	11.623	1.456
3.555	11.511	1.451	3.580	11.627	1.457
3.556	11.516	1.452	3.581	11.632	1.457
3.557	11.521	1.452	3.582	11.637	1.457
3.558	11.525	1.452	3.583	11.641	1.457
3.559	11.530	1.452	3.584	11.646	1.457
3.560	11.535	1.452	3.585	11.651	1.458
3.561	11.539	1.453	3.586	11.655	1.458
3.562	11.544	1.453	3.587	11.660	1.458
3.563	11.548	1.453	3.588	11.665	1.458
3.564	11.553	1.453	3.589	11.670	1.458
3.565	11.558	1.453	3.590	11.674	1.459
3.566	11.562	1.454	3.591	11.679	1.459
3.567	11.567	1.454	3.592	11.683	1.459
3.568	11.572	1.454	3.593	11.688	1.459
3.569	11.576	1.454	3.594	11.693	1.459
3.570	11.581	1.454	3.595	11.697	1.460
3.571	11.586	1.455	3.596	11.702	1.460
3.572	11.591	1.455	3.597	11.707	1.460
3.573	11.595	1.455	3.598	11.711	1.460
3.574	11.600	1.455	3.599	11.716	1.460

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.600	11.721	1.461	3.625	11.837	1.466
3.601	11.725	1.461	3.626	11.842	1.466
3.602	11.730	1.461	3.627	11.846	1.466
3.603	11.734	1.461	3.628	11.851	1.466
3.604	11.739	1.461	3.629	11.856	1.467
3.605	11.744	1.462	3.630	11.860	1.467
3.606	11.748	1.462	3.631	11.865	1.467
3.607	11.753	1.462	3.632	11.870	1.467
3.608	11.758	1.462	3.633	11.874	1.468
3.609	11.762	1.463	3.634	11.879	1.468
3.610	11.767	1.463	3.635	11.884	1.468
3.611	11.772	1.463	3.636	11.888	1.468
3.612	11.776	1.463	3.637	11.893	1.468
3.613	11.781	1.463	3.638	11.898	1.469
3.614	11.786	1.464	3.639	11.902	1.469
3.615	11.790	1.464	3.640	11.907	1.469
3.616	11.795	1.464	3.641	11.912	1.469
3.617	11.800	1.464	3.642	11.916	1.469
3.618	11.804	1.464	3.643	11.921	1.470
3.619	11.809	1.465	3.644	11.926	1.470
3.620	11.814	1.465	3.645	11.930	1.470
3.621	11.818	1.465	3.646	11.935	1.470
3.622	11.823	1.465	3.647	11.940	1.470
3.623	11.828	1.465	3.648	11.944	1.471
3.624	11.832	1.466	3.649	11.949	1.471

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.650	11.954	1.471	3.675	12.071	1.476
3.651	11.958	1.471	3.676	12.075	1.477
3.652	11.963	1.472	3.677	12.080	1.477
3.653	11.968	1.472	3.678	12.085	1.477
3.654	11.972	1.472	3.679	12.089	1.477
3.655	11.977	1.472	3.680	12.094	1.477
3.656	11.982	1.472	3.681	12.099	1.478
3.657	11.986	1.473	3.682	12.103	1.478
3.658	11.991	1.473	3.683	12.108	1.478
3.659	11.996	1.473	3.684	12.113	1.478
3.660	12.000	1.473	3.685	12.117	1.478
3.661	12.005	1.473	3.686	12.122	1.479
3.662	12.010	1.474	3.687	12.127	1.479
3.663	12.015	1.474	3.688	12.132	1.479
3.664	12.019	1.474	3.689	12.136	1.479
3.665	12.024	1.474	3.690	12.141	1.480
3.666	12.029	1.474	3.691	12.146	1.480
3.667	12.034	1.475	3.692	12.150	1.480
3.668	12.038	1.475	3.693	12.155	1.480
3.669	12.043	1.475	3.694	12.160	1.480
3.670	12.047	1.475	3.695	12.164	1.481
3.671	12.052	1.476	3.696	12.169	1.481
3.672	12.057	1.476	3.697	12.174	1.481
3.673	12.061	1.476	3.698	12.178	1.481
3.674	12.066	1.476	3.699	12.183	1.481

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.700	12.188	1.482	3.725	12.305	1.487
3.701	12.192	1.482	3.726	12.310	1.487
3.702	12.197	1.482	3.727	12.314	1.487
3.703	12.202	1.482	3.728	12.319	1.488
3.704	12.207	1.483	3.729	12.324	1.488
3.705	12.211	1.483	3.730	12.329	1.488
3.706	12.216	1.483	3.731	12.333	1.488
3.707	12.221	1.483	3.732	12.338	1.488
3.708	12.225	1.483	3.733	12.343	1.489
3.709	12.230	1.484	3.734	12.347	1.489
3.710	12.234	1.484	3.735	12.352	1.489
3.711	12.239	1.484	3.736	12.357	1.489
3.712	12.244	1.484	3.737	12.361	1.490
3.713	12.249	1.484	3.738	12.366	1.490
3.714	12.253	1.485	3.739	12.371	1.490
3.715	12.258	1.485	3.740	12.376	1.490
3.716	12.263	1.485	3.741	12.380	1.490
3.717	12.268	1.485	3.742	12.385	1.491
3.718	12.272	1.486	3.743	12.390	1.491
3.719	12.277	1.486	3.744	12.394	1.491
3.720	12.282	1.486	3.745	12.399	1.491
3.721	12.286	1.486	3.746	12.404	1.491
3.722	12.291	1.486	3.747	12.408	1.492
3.723	12.296	1.487	3.748	12.413	1.492
3.724	12.300	1.487	3.749	12.418	1.492

<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P̄<sub>S</sub>/P<sub>1</sub></u>	<u>M<sub>1</sub></u>	<u>P'<sub>O</sub>/P<sub>S</sub></u>	<u>P̄<sub>S</sub>/P<sub>1</sub></u>
3.750	12.423	1.492	3.775	12.540	1.498
3.751	12.427	1.493	3.776	12.545	1.498
3.752	12.432	1.493	3.777	12.550	1.498
3.753	12.437	1.493	3.778	12.554	1.498
3.754	12.441	1.493	3.779	12.559	1.499
3.755	12.446	1.493	3.780	12.564	1.499
3.756	12.451	1.494	3.781	12.569	1.499
3.757	12.455	1.494	3.782	12.573	1.499
3.758	12.460	1.494	3.783	12.578	1.499
3.759	12.465	1.494	3.784	12.583	1.500
3.760	12.470	1.494	3.785	12.587	1.500
3.761	12.474	1.495	3.786	12.592	1.500
3.762	12.479	1.495	3.787	12.597	1.500
3.763	12.484	1.495	3.788	12.602	1.501
3.764	12.488	1.495	3.789	12.606	1.501
3.765	12.493	1.496	3.790	12.611	1.501
3.766	12.498	1.496	3.791	12.616	1.501
3.767	12.503	1.496	3.792	12.620	1.501
3.768	12.507	1.496	3.793	12.625	1.502
3.769	12.512	1.496	3.794	12.630	1.502
3.770	12.517	1.497	3.795	12.635	1.502
3.771	12.521	1.497	3.796	12.639	1.502
3.772	12.526	1.497	3.797	12.644	1.502
3.773	12.531	1.497	3.798	12.649	1.503
3.774	12.536	1.498	3.799	12.653	1.503

$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/\bar{P}_S$	$\bar{P}_S/P_1$
3.800	12.658	1.503	3.825	12.776	1.509
3.801	12.663	1.503	3.826	12.781	1.509
3.802	12.668	1.504	3.827	12.786	1.509
3.803	12.672	1.504	3.828	12.790	1.509
3.804	12.677	1.504	3.829	12.795	1.509
3.805	12.682	1.504	3.830	12.800	1.510
3.806	12.687	1.504	3.831	12.805	1.510
3.807	12.691	1.505	3.832	12.809	1.510
3.808	12.696	1.505	3.833	12.814	1.510
3.809	12.701	1.505	3.834	12.819	1.511
3.810	12.705	1.505	3.835	12.824	1.511
3.811	12.710	1.506	3.836	12.828	1.511
3.812	12.715	1.506	3.837	12.833	1.511
3.813	12.720	1.506	3.838	12.338	1.511
3.814	12.724	1.506	3.839	12.842	1.512
3.815	12.729	1.506	3.840	12.847	1.512
3.816	12.733	1.507	3.841	12.852	1.512
3.817	12.738	1.507	3.842	12.856	1.512
3.818	12.743	1.507	3.843	12.861	1.512
3.819	12.748	1.507	3.844	12.866	1.513
3.820	12.752	1.507	3.845	12.871	1.513
3.821	12.757	1.508	3.846	12.875	1.513
3.822	12.762	1.508	3.847	12.880	1.513
3.823	12.767	1.508	3.848	12.885	1.514
3.824	12.771	1.508	3.849	12.890	1.514



$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$	$M_1$	$P'_O/P_S$	$\bar{P}_S/P_1$
3.850	12.895	1.514	3.875	13.013	1.520
3.851	12.899	1.514	3.876	13.017	1.520
3.852	12.904	1.514	3.877	13.022	1.520
3.853	12.909	1.515	3.878	13.027	1.520
3.854	12.914	1.515	3.879	13.032	1.520
3.855	12.918	1.515	3.880	13.037	1.521
3.856	12.923	1.515	3.881	13.042	1.521
3.857	12.927	1.516	3.882	13.046	1.521
3.858	12.932	1.516	3.883	13.051	1.521
3.859	12.937	1.516	3.884	13.056	1.521
3.860	12.942	1.516	3.885	13.061	1.522
3.861	12.947	1.516	3.886	13.065	1.522
3.862	12.951	1.517	3.887	13.070	1.522
3.863	12.956	1.517	3.888	13.074	1.522
3.864	12.961	1.517	3.889	13.080	1.523
3.865	12.965	1.517	3.890	13.084	1.523
3.866	12.970	1.518	3.891	13.089	1.523
3.867	12.975	1.518	3.892	13.094	1.523
3.868	12.980	1.518	3.893	13.098	1.523
3.869	12.985	1.518	3.894	13.103	1.524
3.870	12.989	1.518	3.895	13.108	1.524
3.871	12.994	1.519			
3.872	12.999	1.519			
3.873	13.004	1.519			
3.874	13.008	1.519			

