

Appendice A

Tabelle dei flussi comprimibili

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
.00	.00000	.10000E+01	.10000E+01	.10000E+01	∞	.10000E+01
.01	.01095	.99998E+00	.99993E+00	.99995E+00	.57874E+02	.99999E+00
.02	.02191	.99992E+00	.99972E+00	.99980E+00	.28942E+02	.99996E+00
.03	.03286	.99982E+00	.99937E+00	.99955E+00	.19301E+02	.99991E+00
.04	.04381	.99968E+00	.99888E+00	.99920E+00	.14481E+02	.99984E+00
.05	.05476	.99950E+00	.99825E+00	.99875E+00	.11591E+02	.99975E+00
.06	.06570	.99928E+00	.99748E+00	.99820E+00	.96659E+01	.99964E+00
.07	.07664	.99902E+00	.99658E+00	.99755E+00	.82915E+01	.99951E+00
.08	.08758	.99872E+00	.99553E+00	.99681E+00	.72616E+01	.99936E+00
.09	.09851	.99838E+00	.99435E+00	.99596E+00	.64613E+01	.99919E+00
.10	.10944	.99800E+00	.99303E+00	.99502E+00	.58218E+01	.99900E+00
.11	.12035	.99759E+00	.99158E+00	.99398E+00	.52992E+01	.99879E+00
.12	.13126	.99713E+00	.98998E+00	.99284E+00	.48643E+01	.99856E+00
.13	.14217	.99663E+00	.98826E+00	.99160E+00	.44969E+01	.99831E+00
.14	.15306	.99610E+00	.98640E+00	.99027E+00	.41824E+01	.99805E+00
.15	.16395	.99552E+00	.98441E+00	.98884E+00	.39103E+01	.99776E+00
.16	.17482	.99491E+00	.98228E+00	.98731E+00	.36727E+01	.99745E+00
.17	.18569	.99425E+00	.98003E+00	.98569E+00	.34635E+01	.99712E+00
.18	.19654	.99356E+00	.97765E+00	.98398E+00	.32779E+01	.99678E+00
.19	.20739	.99283E+00	.97514E+00	.98218E+00	.31123E+01	.99641E+00
.20	.21822	.99206E+00	.97250E+00	.98028E+00	.29635E+01	.99602E+00
.21	.22904	.99126E+00	.96973E+00	.97829E+00	.28293E+01	.99562E+00
.22	.23984	.99041E+00	.96685E+00	.97620E+00	.27076E+01	.99519E+00
.23	.25063	.98953E+00	.96383E+00	.97403E+00	.25968E+01	.99475E+00
.24	.26141	.98861E+00	.96070E+00	.97177E+00	.24956E+01	.99429E+00
.25	.27217	.98765E+00	.95745E+00	.96942E+00	.24027E+01	.99381E+00
.26	.28291	.98666E+00	.95408E+00	.96698E+00	.23173E+01	.99331E+00
.27	.29364	.98563E+00	.95060E+00	.96446E+00	.22385E+01	.99279E+00
.28	.30435	.98456E+00	.94700E+00	.96185E+00	.21656E+01	.99225E+00
.29	.31504	.98346E+00	.94329E+00	.95916E+00	.20979E+01	.99169E+00
.30	.32572	.98232E+00	.93947E+00	.95638E+00	.20351E+01	.99112E+00
.31	.33637	.98114E+00	.93554E+00	.95352E+00	.19765E+01	.99053E+00
.32	.34701	.97993E+00	.93150E+00	.95058E+00	.19219E+01	.98991E+00
.33	.35762	.97868E+00	.92736E+00	.94756E+00	.18707E+01	.98928E+00
.34	.36822	.97740E+00	.92312E+00	.94446E+00	.18229E+01	.98864E+00
.35	.37879	.97609E+00	.91877E+00	.94128E+00	.17780E+01	.98797E+00
.36	.38935	.97473E+00	.91433E+00	.93803E+00	.17358E+01	.98729E+00
.37	.39988	.97335E+00	.90979E+00	.93470E+00	.16961E+01	.98658E+00
.38	.41039	.97193E+00	.90516E+00	.93130E+00	.16587E+01	.98587E+00
.39	.42087	.97048E+00	.90043E+00	.92782E+00	.16234E+01	.98513E+00
.40	.43133	.96899E+00	.89561E+00	.92427E+00	.15901E+01	.98437E+00
.41	.44177	.96747E+00	.89071E+00	.92066E+00	.15587E+01	.98360E+00
.42	.45218	.96592E+00	.88572E+00	.91697E+00	.15289E+01	.98281E+00
.43	.46257	.96434E+00	.88065E+00	.91322E+00	.15007E+01	.98201E+00
.44	.47293	.96272E+00	.87550E+00	.90940E+00	.14740E+01	.98118E+00
.45	.48326	.96108E+00	.87027E+00	.90551E+00	.14487E+01	.98035E+00
.46	.49357	.95940E+00	.86496E+00	.90157E+00	.14246E+01	.97949E+00
.47	.50385	.95769E+00	.85958E+00	.89756E+00	.14018E+01	.97862E+00
.48	.51410	.95595E+00	.85413E+00	.89349E+00	.13801E+01	.97773E+00
.49	.52433	.95418E+00	.84861E+00	.88936E+00	.13595E+01	.97682E+00

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
.50	.53452	.95238E+00	.84302E+00	.88517E+00	.13398E+01	.97590E+00
.51	.54469	.95055E+00	.83737E+00	.88093E+00	.13212E+01	.97496E+00
.52	.55483	.94869E+00	.83165E+00	.87663E+00	.13034E+01	.97401E+00
.53	.56493	.94681E+00	.82588E+00	.87228E+00	.12865E+01	.97304E+00
.54	.57501	.94489E+00	.82005E+00	.86788E+00	.12703E+01	.97206E+00
.55	.58506	.94295E+00	.81417E+00	.86342E+00	.12549E+01	.97106E+00
.56	.59507	.94098E+00	.80823E+00	.85892E+00	.12403E+01	.97004E+00
.57	.60505	.93898E+00	.80224E+00	.85437E+00	.12263E+01	.96901E+00
.58	.61501	.93696E+00	.79621E+00	.84978E+00	.12130E+01	.96797E+00
.59	.62492	.93491E+00	.79013E+00	.84514E+00	.12003E+01	.96691E+00
.60	.63481	.93284E+00	.78400E+00	.84045E+00	.11882E+01	.96583E+00
.61	.64466	.93073E+00	.77784E+00	.83573E+00	.11767E+01	.96475E+00
.62	.65448	.92861E+00	.77164E+00	.83096E+00	.11656E+01	.96364E+00
.63	.66427	.92646E+00	.76540E+00	.82616E+00	.11552E+01	.96253E+00
.64	.67402	.92428E+00	.75913E+00	.82132E+00	.11451E+01	.96140E+00
.65	.68374	.92208E+00	.75283E+00	.81644E+00	.11356E+01	.96025E+00
.66	.69342	.91986E+00	.74650E+00	.81153E+00	.11265E+01	.95909E+00
.67	.70307	.91762E+00	.74014E+00	.80659E+00	.11179E+01	.95792E+00
.68	.71268	.91535E+00	.73376E+00	.80162E+00	.11097E+01	.95674E+00
.69	.72225	.91306E+00	.72735E+00	.79661E+00	.11018E+01	.95554E+00
.70	.73179	.91075E+00	.72093E+00	.79158E+00	.10944E+01	.95433E+00
.71	.74129	.90841E+00	.71448E+00	.78652E+00	.10873E+01	.95311E+00
.72	.75076	.90606E+00	.70803E+00	.78143E+00	.10806E+01	.95187E+00
.73	.76019	.90369E+00	.70155E+00	.77632E+00	.10742E+01	.95062E+00
.74	.76958	.90129E+00	.69507E+00	.77119E+00	.10681E+01	.94936E+00
.75	.77894	.89888E+00	.68857E+00	.76604E+00	.10624E+01	.94809E+00
.76	.78825	.89644E+00	.68207E+00	.76086E+00	.10570E+01	.94681E+00
.77	.79753	.89399E+00	.67556E+00	.75567E+00	.10519E+01	.94551E+00
.78	.80677	.89152E+00	.66905E+00	.75046E+00	.10471E+01	.94420E+00
.79	.81597	.88903E+00	.66254E+00	.74523E+00	.10425E+01	.94288E+00
.80	.82514	.88652E+00	.65602E+00	.73999E+00	.10382E+01	.94155E+00
.81	.83426	.88400E+00	.64951E+00	.73474E+00	.10342E+01	.94021E+00
.82	.84335	.88146E+00	.64300E+00	.72947E+00	.10305E+01	.93886E+00
.83	.85239	.87890E+00	.63650E+00	.72419E+00	.10270E+01	.93750E+00
.84	.86140	.87633E+00	.63000E+00	.71891E+00	.10237E+01	.93613E+00
.85	.87037	.87374E+00	.62351E+00	.71361E+00	.10207E+01	.93474E+00
.86	.87929	.87114E+00	.61703E+00	.70831E+00	.10179E+01	.93335E+00
.87	.88818	.86852E+00	.61057E+00	.70300E+00	.10153E+01	.93195E+00
.88	.89703	.86589E+00	.60412E+00	.69768E+00	.10129E+01	.93053E+00
.89	.90583	.86324E+00	.59768E+00	.69236E+00	.10108E+01	.92911E+00
.90	.91460	.86059E+00	.59126E+00	.68704E+00	.10089E+01	.92768E+00
.91	.92332	.85791E+00	.58486E+00	.68172E+00	.10071E+01	.92624E+00
.92	.93201	.85523E+00	.57848E+00	.67640E+00	.10056E+01	.92479E+00
.93	.94065	.85253E+00	.57211E+00	.67108E+00	.10043E+01	.92333E+00
.94	.94925	.84982E+00	.56578E+00	.66576E+00	.10031E+01	.92186E+00
.95	.95781	.84710E+00	.55946E+00	.66044E+00	.10021E+01	.92038E+00
.96	.96633	.84437E+00	.55317E+00	.65513E+00	.10014E+01	.91889E+00
.97	.97481	.84162E+00	.54691E+00	.64982E+00	.10008E+01	.91740E+00
.98	.98325	.83887E+00	.54067E+00	.64452E+00	.10003E+01	.91590E+00
.99	.99165	.83611E+00	.53446E+00	.63923E+00	.10001E+01	.91439E+00

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
1.00	1.00000	.83333E+00	.52828E+00	.63394E+00	.10000E+01	.91287E+00
1.01	1.00831	.83055E+00	.52213E+00	.62866E+00	.10001E+01	.91135E+00
1.02	1.01658	.82776E+00	.51602E+00	.62339E+00	.10003E+01	.90981E+00
1.03	1.02481	.82496E+00	.50994E+00	.61813E+00	.10007E+01	.90827E+00
1.04	1.03300	.82215E+00	.50389E+00	.61289E+00	.10013E+01	.90673E+00
1.05	1.04114	.81934E+00	.49787E+00	.60765E+00	.10020E+01	.90517E+00
1.06	1.04925	.81651E+00	.49189E+00	.60243E+00	.10029E+01	.90361E+00
1.07	1.05731	.81368E+00	.48595E+00	.59723E+00	.10039E+01	.90204E+00
1.08	1.06533	.81085E+00	.48005E+00	.59203E+00	.10051E+01	.90047E+00
1.09	1.07331	.80800E+00	.47418E+00	.58686E+00	.10064E+01	.89889E+00
1.10	1.08124	.80515E+00	.46835E+00	.58170E+00	.10079E+01	.89730E+00
1.11	1.08913	.80230E+00	.46257E+00	.57655E+00	.10095E+01	.89571E+00
1.12	1.09698	.79944E+00	.45682E+00	.57143E+00	.10113E+01	.89411E+00
1.13	1.10479	.79657E+00	.45111E+00	.56632E+00	.10132E+01	.89251E+00
1.14	1.11256	.79370E+00	.44545E+00	.56123E+00	.10153E+01	.89090E+00
1.15	1.12029	.79083E+00	.43983E+00	.55616E+00	.10175E+01	.88928E+00
1.16	1.12797	.78795E+00	.43425E+00	.55112E+00	.10198E+01	.88766E+00
1.17	1.13561	.78507E+00	.42872E+00	.54609E+00	.10222E+01	.88604E+00
1.18	1.14321	.78218E+00	.42323E+00	.54108E+00	.10248E+01	.88441E+00
1.19	1.15077	.77929E+00	.41778E+00	.53610E+00	.10276E+01	.88277E+00
1.20	1.15828	.77640E+00	.41238E+00	.53114E+00	.10304E+01	.88113E+00
1.21	1.16575	.77350E+00	.40702E+00	.52621E+00	.10334E+01	.87949E+00
1.22	1.17318	.77061E+00	.40171E+00	.52129E+00	.10366E+01	.87784E+00
1.23	1.18057	.76771E+00	.39645E+00	.51640E+00	.10398E+01	.87619E+00
1.24	1.18792	.76481E+00	.39123E+00	.51154E+00	.10432E+01	.87453E+00
1.25	1.19523	.76191E+00	.38606E+00	.50670E+00	.10468E+01	.87287E+00
1.26	1.20249	.75900E+00	.38093E+00	.50189E+00	.10504E+01	.87121E+00
1.27	1.20972	.75610E+00	.37586E+00	.49710E+00	.10542E+01	.86954E+00
1.28	1.21690	.75319E+00	.37083E+00	.49234E+00	.10581E+01	.86787E+00
1.29	1.22404	.75029E+00	.36585E+00	.48761E+00	.10621E+01	.86619E+00
1.30	1.23114	.74738E+00	.36091E+00	.48290E+00	.10663E+01	.86451E+00
1.31	1.23819	.74448E+00	.35603E+00	.47823E+00	.10706E+01	.86283E+00
1.32	1.24521	.74158E+00	.35119E+00	.47358E+00	.10750E+01	.86115E+00
1.33	1.25218	.73867E+00	.34640E+00	.46895E+00	.10796E+01	.85946E+00
1.34	1.25912	.73577E+00	.34166E+00	.46436E+00	.10842E+01	.85777E+00
1.35	1.26601	.73287E+00	.33697E+00	.45980E+00	.10890E+01	.85608E+00
1.36	1.27286	.72997E+00	.33233E+00	.45526E+00	.10940E+01	.85438E+00
1.37	1.27967	.72707E+00	.32773E+00	.45076E+00	.10990E+01	.85269E+00
1.38	1.28645	.72418E+00	.32319E+00	.44628E+00	.11042E+01	.85099E+00
1.39	1.29318	.72128E+00	.31869E+00	.44184E+00	.11095E+01	.84928E+00
1.40	1.29987	.71839E+00	.31424E+00	.43742E+00	.11149E+01	.84758E+00
1.41	1.30652	.71550E+00	.30984E+00	.43304E+00	.11205E+01	.84587E+00
1.42	1.31313	.71262E+00	.30549E+00	.42869E+00	.11262E+01	.84417E+00
1.43	1.31970	.70973E+00	.30119E+00	.42436E+00	.11320E+01	.84246E+00
1.44	1.32623	.70685E+00	.29693E+00	.42007E+00	.11379E+01	.84075E+00
1.45	1.33272	.70398E+00	.29272E+00	.41581E+00	.11440E+01	.83903E+00
1.46	1.33917	.70111E+00	.28856E+00	.41158E+00	.11501E+01	.83732E+00
1.47	1.34558	.69824E+00	.28445E+00	.40739E+00	.11565E+01	.83561E+00
1.48	1.35195	.69537E+00	.28039E+00	.40322E+00	.11629E+01	.83389E+00
1.49	1.35828	.69251E+00	.27637E+00	.39909E+00	.11695E+01	.83217E+00

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
1.50	1.36458	.68966E+00	.27240E+00	.39498E+00	.11762E+01	.83046E+00
1.51	1.37083	.68680E+00	.26848E+00	.39091E+00	.11830E+01	.82874E+00
1.52	1.37705	.68396E+00	.26461E+00	.38688E+00	.11899E+01	.82702E+00
1.53	1.38322	.68112E+00	.26078E+00	.38287E+00	.11970E+01	.82530E+00
1.54	1.38936	.67828E+00	.25700E+00	.37890E+00	.12042E+01	.82358E+00
1.55	1.39546	.67545E+00	.25326E+00	.37496E+00	.12116E+01	.82186E+00
1.56	1.40152	.67262E+00	.24957E+00	.37105E+00	.12190E+01	.82014E+00
1.57	1.40755	.66980E+00	.24593E+00	.36717E+00	.12266E+01	.81841E+00
1.58	1.41353	.66699E+00	.24233E+00	.36332E+00	.12344E+01	.81669E+00
1.59	1.41948	.66418E+00	.23878E+00	.35951E+00	.12422E+01	.81497E+00
1.60	1.42539	.66138E+00	.23527E+00	.35573E+00	.12502E+01	.81325E+00
1.61	1.43127	.65858E+00	.23181E+00	.35198E+00	.12584E+01	.81153E+00
1.62	1.43710	.65579E+00	.22839E+00	.34827E+00	.12666E+01	.80981E+00
1.63	1.44290	.65301E+00	.22501E+00	.34458E+00	.12750E+01	.80809E+00
1.64	1.44866	.65023E+00	.22168E+00	.34093E+00	.12836E+01	.80637E+00
1.65	1.45439	.64746E+00	.21840E+00	.33731E+00	.12922E+01	.80465E+00
1.66	1.46008	.64470E+00	.21515E+00	.33372E+00	.13010E+01	.80293E+00
1.67	1.46573	.64194E+00	.21195E+00	.33017E+00	.13100E+01	.80121E+00
1.68	1.47135	.63919E+00	.20879E+00	.32664E+00	.13190E+01	.79949E+00
1.69	1.47693	.63645E+00	.20567E+00	.32315E+00	.13283E+01	.79778E+00
1.70	1.48247	.63371E+00	.20259E+00	.31969E+00	.13376E+01	.79606E+00
1.71	1.48798	.63099E+00	.19956E+00	.31626E+00	.13471E+01	.79435E+00
1.72	1.49345	.62827E+00	.19656E+00	.31287E+00	.13567E+01	.79263E+00
1.73	1.49889	.62556E+00	.19361E+00	.30950E+00	.13665E+01	.79092E+00
1.74	1.50429	.62285E+00	.19070E+00	.30617E+00	.13764E+01	.78921E+00
1.75	1.50966	.62016E+00	.18782E+00	.30287E+00	.13865E+01	.78750E+00
1.76	1.51499	.61747E+00	.18499E+00	.29960E+00	.13967E+01	.78579E+00
1.77	1.52029	.61479E+00	.18220E+00	.29635E+00	.14070E+01	.78408E+00
1.78	1.52555	.61212E+00	.17944E+00	.29315E+00	.14175E+01	.78238E+00
1.79	1.53078	.60945E+00	.17672E+00	.28997E+00	.14282E+01	.78067E+00
1.80	1.53598	.60680E+00	.17404E+00	.28682E+00	.14390E+01	.77897E+00
1.81	1.54114	.60415E+00	.17140E+00	.28370E+00	.14499E+01	.77727E+00
1.82	1.54626	.60151E+00	.16879E+00	.28061E+00	.14610E+01	.77557E+00
1.83	1.55136	.59888E+00	.16622E+00	.27756E+00	.14723E+01	.77387E+00
1.84	1.55642	.59626E+00	.16369E+00	.27453E+00	.14836E+01	.77218E+00
1.85	1.56144	.59365E+00	.16120E+00	.27153E+00	.14952E+01	.77049E+00
1.86	1.56644	.59104E+00	.15873E+00	.26857E+00	.15069E+01	.76879E+00
1.87	1.57140	.58845E+00	.15631E+00	.26563E+00	.15187E+01	.76711E+00
1.88	1.57633	.58586E+00	.15392E+00	.26272E+00	.15308E+01	.76542E+00
1.89	1.58122	.58329E+00	.15156E+00	.25984E+00	.15429E+01	.76373E+00
1.90	1.58609	.58072E+00	.14924E+00	.25699E+00	.15553E+01	.76205E+00
1.91	1.59092	.57816E+00	.14695E+00	.25417E+00	.15677E+01	.76037E+00
1.92	1.59572	.57561E+00	.14470E+00	.25138E+00	.15804E+01	.75869E+00
1.93	1.60049	.57307E+00	.14247E+00	.24861E+00	.15932E+01	.75702E+00
1.94	1.60522	.57054E+00	.14028E+00	.24588E+00	.16062E+01	.75534E+00
1.95	1.60993	.56802E+00	.13813E+00	.24317E+00	.16193E+01	.75367E+00
1.96	1.61460	.56551E+00	.13600E+00	.24049E+00	.16326E+01	.75200E+00
1.97	1.61925	.56301E+00	.13390E+00	.23784E+00	.16461E+01	.75034E+00
1.98	1.62386	.56051E+00	.13184E+00	.23521E+00	.16597E+01	.74867E+00
1.99	1.62844	.55803E+00	.12981E+00	.23262E+00	.16735E+01	.74701E+00

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
2.00	1.63299	.55556E+00	.12780E+00	.23005E+00	.16875E+01	.74536E+00
2.01	1.63751	.55309E+00	.12583E+00	.22751E+00	.17016E+01	.74370E+00
2.02	1.64200	.55064E+00	.12389E+00	.22499E+00	.17160E+01	.74205E+00
2.03	1.64647	.54819E+00	.12197E+00	.22250E+00	.17305E+01	.74040E+00
2.04	1.65090	.54576E+00	.12009E+00	.22004E+00	.17451E+01	.73875E+00
2.05	1.65530	.54333E+00	.11823E+00	.21760E+00	.17600E+01	.73711E+00
2.06	1.65967	.54092E+00	.11640E+00	.21519E+00	.17750E+01	.73547E+00
2.07	1.66401	.53851E+00	.11460E+00	.21281E+00	.17902E+01	.73383E+00
2.08	1.66833	.53611E+00	.11282E+00	.21045E+00	.18056E+01	.73220E+00
2.09	1.67262	.53373E+00	.11107E+00	.20811E+00	.18212E+01	.73057E+00
2.10	1.67687	.53135E+00	.10935E+00	.20580E+00	.18369E+01	.72894E+00
2.11	1.68110	.52898E+00	.10766E+00	.20352E+00	.18529E+01	.72731E+00
2.12	1.68530	.52663E+00	.10599E+00	.20126E+00	.18690E+01	.72569E+00
2.13	1.68947	.52428E+00	.10434E+00	.19903E+00	.18853E+01	.72407E+00
2.14	1.69362	.52194E+00	.10273E+00	.19681E+00	.19018E+01	.72246E+00
2.15	1.69774	.51962E+00	.10113E+00	.19463E+00	.19185E+01	.72084E+00
2.16	1.70182	.51730E+00	.99562E-01	.19247E+00	.19354E+01	.71923E+00
2.17	1.70589	.51499E+00	.98017E-01	.19033E+00	.19525E+01	.71763E+00
2.18	1.70992	.51269E+00	.96495E-01	.18821E+00	.19698E+01	.71603E+00
2.19	1.71393	.51041E+00	.94997E-01	.18612E+00	.19873E+01	.71443E+00
2.20	1.71791	.50813E+00	.93522E-01	.18405E+00	.20050E+01	.71283E+00
2.21	1.72187	.50586E+00	.92070E-01	.18200E+00	.20229E+01	.71124E+00
2.22	1.72579	.50361E+00	.90640E-01	.17998E+00	.20409E+01	.70965E+00
2.23	1.72970	.50136E+00	.89232E-01	.17798E+00	.20592E+01	.70807E+00
2.24	1.73357	.49912E+00	.87846E-01	.17600E+00	.20777E+01	.70649E+00
2.25	1.73742	.49689E+00	.86482E-01	.17404E+00	.20964E+01	.70491E+00
2.26	1.74125	.49468E+00	.85139E-01	.17211E+00	.21153E+01	.70333E+00
2.27	1.74504	.49247E+00	.83817E-01	.17020E+00	.21345E+01	.70176E+00
2.28	1.74882	.49027E+00	.82515E-01	.16830E+00	.21538E+01	.70020E+00
2.29	1.75256	.48809E+00	.81234E-01	.16643E+00	.21734E+01	.69863E+00
2.30	1.75629	.48591E+00	.79973E-01	.16458E+00	.21931E+01	.69707E+00
2.31	1.75999	.48374E+00	.78731E-01	.16275E+00	.22131E+01	.69552E+00
2.32	1.76366	.48158E+00	.77509E-01	.16095E+00	.22333E+01	.69396E+00
2.33	1.76731	.47944E+00	.76306E-01	.15916E+00	.22537E+01	.69241E+00
2.34	1.77093	.47730E+00	.75122E-01	.15739E+00	.22744E+01	.69087E+00
2.35	1.77453	.47517E+00	.73957E-01	.15564E+00	.22953E+01	.68933E+00
2.36	1.77811	.47306E+00	.72810E-01	.15391E+00	.23164E+01	.68779E+00
2.37	1.78166	.47095E+00	.71681E-01	.15221E+00	.23377E+01	.68626E+00
2.38	1.78519	.46885E+00	.70570E-01	.15052E+00	.23593E+01	.68473E+00
2.39	1.78869	.46676E+00	.69476E-01	.14885E+00	.23811E+01	.68320E+00
2.40	1.79218	.46468E+00	.68400E-01	.14720E+00	.24031E+01	.68168E+00
2.41	1.79563	.46262E+00	.67340E-01	.14556E+00	.24254E+01	.68016E+00
2.42	1.79907	.46056E+00	.66297E-01	.14395E+00	.24479E+01	.67864E+00
2.43	1.80248	.45851E+00	.65271E-01	.14235E+00	.24706E+01	.67713E+00
2.44	1.80587	.45647E+00	.64261E-01	.14078E+00	.24936E+01	.67563E+00
2.45	1.80924	.45444E+00	.63267E-01	.13922E+00	.25168E+01	.67412E+00
2.46	1.81258	.45242E+00	.62289E-01	.13768E+00	.25403E+01	.67262E+00
2.47	1.81591	.45041E+00	.61326E-01	.13615E+00	.25640E+01	.67113E+00
2.48	1.81921	.44841E+00	.60378E-01	.13465E+00	.25880E+01	.66964E+00
2.49	1.82248	.44642E+00	.59446E-01	.13316E+00	.26122E+01	.66815E+00

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
2.50	1.82574	.44444E+00	.58528E-01	.13169E+00	.26367E+01	.66667E+00
2.51	1.82898	.44247E+00	.57625E-01	.13023E+00	.26615E+01	.66519E+00
2.52	1.83219	.44051E+00	.56736E-01	.12879E+00	.26864E+01	.66371E+00
2.53	1.83538	.43856E+00	.55861E-01	.12737E+00	.27117E+01	.66224E+00
2.54	1.83855	.43662E+00	.55000E-01	.12597E+00	.27372E+01	.66077E+00
2.55	1.84170	.43469E+00	.54153E-01	.12458E+00	.27630E+01	.65931E+00
2.56	1.84483	.43277E+00	.53319E-01	.12321E+00	.27891E+01	.65785E+00
2.57	1.84794	.43085E+00	.52499E-01	.12185E+00	.28154E+01	.65639E+00
2.58	1.85103	.42895E+00	.51692E-01	.12051E+00	.28420E+01	.65494E+00
2.59	1.85410	.42706E+00	.50897E-01	.11918E+00	.28688E+01	.65349E+00
2.60	1.85714	.42517E+00	.50115E-01	.11787E+00	.28960E+01	.65205E+00
2.61	1.86017	.42330E+00	.49346E-01	.11658E+00	.29234E+01	.65061E+00
2.62	1.86318	.42143E+00	.48589E-01	.11530E+00	.29511E+01	.64918E+00
2.63	1.86616	.41957E+00	.47844E-01	.11403E+00	.29791E+01	.64774E+00
2.64	1.86913	.41773E+00	.47110E-01	.11278E+00	.30073E+01	.64632E+00
2.65	1.87208	.41589E+00	.46389E-01	.11154E+00	.30359E+01	.64489E+00
2.66	1.87501	.41406E+00	.45679E-01	.11032E+00	.30647E+01	.64347E+00
2.67	1.87792	.41224E+00	.44980E-01	.10911E+00	.30938E+01	.64206E+00
2.68	1.88081	.41043E+00	.44293E-01	.10792E+00	.31233E+01	.64065E+00
2.69	1.88368	.40863E+00	.43616E-01	.10674E+00	.31530E+01	.63924E+00
2.70	1.88653	.40684E+00	.42950E-01	.10557E+00	.31830E+01	.63784E+00
2.71	1.88936	.40505E+00	.42295E-01	.10442E+00	.32133E+01	.63644E+00
2.72	1.89218	.40328E+00	.41650E-01	.10328E+00	.32439E+01	.63504E+00
2.73	1.89497	.40151E+00	.41016E-01	.10215E+00	.32749E+01	.63365E+00
2.74	1.89775	.39976E+00	.40391E-01	.10104E+00	.33061E+01	.63226E+00
2.75	1.90051	.39801E+00	.39777E-01	.99939E-01	.33377E+01	.63088E+00
2.76	1.90325	.39627E+00	.39172E-01	.98852E-01	.33695E+01	.62950E+00
2.77	1.90598	.39454E+00	.38577E-01	.97777E-01	.34017E+01	.62813E+00
2.78	1.90868	.39282E+00	.37992E-01	.96714E-01	.34342E+01	.62676E+00
2.79	1.91137	.39111E+00	.37415E-01	.95664E-01	.34670E+01	.62539E+00
2.80	1.91404	.38941E+00	.36848E-01	.94627E-01	.35001E+01	.62403E+00
2.81	1.91669	.38771E+00	.36290E-01	.93601E-01	.35336E+01	.62267E+00
2.82	1.91933	.38603E+00	.35741E-01	.92587E-01	.35674E+01	.62131E+00
2.83	1.92195	.38435E+00	.35201E-01	.91585E-01	.36015E+01	.61996E+00
2.84	1.92455	.38268E+00	.34669E-01	.90595E-01	.36359E+01	.61862E+00
2.85	1.92713	.38103E+00	.34146E-01	.89616E-01	.36707E+01	.61727E+00
2.86	1.92970	.37937E+00	.33631E-01	.88648E-01	.37058E+01	.61593E+00
2.87	1.93225	.37773E+00	.33124E-01	.87692E-01	.37413E+01	.61460E+00
2.88	1.93479	.37610E+00	.32625E-01	.86747E-01	.37771E+01	.61327E+00
2.89	1.93731	.37447E+00	.32135E-01	.85813E-01	.38133E+01	.61194E+00
2.90	1.93981	.37286E+00	.31652E-01	.84890E-01	.38498E+01	.61062E+00
2.91	1.94230	.37125E+00	.31176E-01	.83977E-01	.38866E+01	.60930E+00
2.92	1.94477	.36965E+00	.30709E-01	.83075E-01	.39238E+01	.60799E+00
2.93	1.94722	.36806E+00	.30248E-01	.82184E-01	.39614E+01	.60668E+00
2.94	1.94966	.36647E+00	.29795E-01	.81302E-01	.39993E+01	.60537E+00
2.95	1.95208	.36490E+00	.29349E-01	.80432E-01	.40376E+01	.60407E+00
2.96	1.95449	.36333E+00	.28910E-01	.79571E-01	.40762E+01	.60277E+00
2.97	1.95688	.36177E+00	.28479E-01	.78720E-01	.41153E+01	.60147E+00
2.98	1.95925	.36022E+00	.28054E-01	.77879E-01	.41547E+01	.60018E+00
2.99	1.96161	.35868E+00	.27635E-01	.77048E-01	.41944E+01	.59890E+00

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
3.00	1.96396	.35714E+00	.27224E-01	.76227E-01	.42346E+01	.59761E+00
3.05	1.97547	.34959E+00	.25261E-01	.72260E-01	.44410E+01	.59126E+00
3.10	1.98661	.34223E+00	.23449E-01	.68517E-01	.46573E+01	.58501E+00
3.15	1.99740	.33506E+00	.21775E-01	.64986E-01	.48838E+01	.57885E+00
3.20	2.00786	.32808E+00	.20228E-01	.61654E-01	.51209E+01	.57279E+00
3.25	2.01799	.32129E+00	.18798E-01	.58510E-01	.53691E+01	.56682E+00
3.30	2.02781	.31466E+00	.17477E-01	.55541E-01	.56286E+01	.56095E+00
3.35	2.03733	.30821E+00	.16255E-01	.52739E-01	.59000E+01	.55517E+00
3.40	2.04656	.30193E+00	.15125E-01	.50093E-01	.61837E+01	.54948E+00
3.45	2.05551	.29581E+00	.14079E-01	.47594E-01	.64801E+01	.54389E+00
3.50	2.06419	.28986E+00	.13111E-01	.45233E-01	.67896E+01	.53838E+00
3.55	2.07261	.28405E+00	.12215E-01	.43002E-01	.71128E+01	.53296E+00
3.60	2.08077	.27840E+00	.11385E-01	.40894E-01	.74501E+01	.52763E+00
3.65	2.08870	.27289E+00	.10616E-01	.38901E-01	.78020E+01	.52239E+00
3.70	2.09639	.26752E+00	.99029E-02	.37017E-01	.81690E+01	.51723E+00
3.75	2.10386	.26230E+00	.92420E-02	.35235E-01	.85517E+01	.51215E+00
3.80	2.11111	.25720E+00	.86290E-02	.33549E-01	.89506E+01	.50715E+00
3.85	2.11815	.25224E+00	.80601E-02	.31954E-01	.93661E+01	.50223E+00
3.90	2.12499	.24740E+00	.75321E-02	.30445E-01	.97989E+01	.49740E+00
3.95	2.13163	.24269E+00	.70417E-02	.29015E-01	.10250E+02	.49264E+00
4.00	2.13809	.23810E+00	.65861E-02	.27662E-01	.10719E+02	.48795E+00
4.05	2.14436	.23362E+00	.61627E-02	.26379E-01	.11207E+02	.48334E+00
4.10	2.15046	.22925E+00	.57690E-02	.25164E-01	.11715E+02	.47880E+00
4.15	2.15639	.22500E+00	.54028E-02	.24013E-01	.12243E+02	.47434E+00
4.20	2.16215	.22085E+00	.50621E-02	.22921E-01	.12792E+02	.46994E+00
4.25	2.16776	.21680E+00	.47449E-02	.21886E-01	.13362E+02	.46562E+00
4.30	2.17321	.21286E+00	.44494E-02	.20903E-01	.13955E+02	.46136E+00
4.35	2.17852	.20901E+00	.41742E-02	.19971E-01	.14571E+02	.45717E+00
4.40	2.18368	.20525E+00	.39176E-02	.19087E-01	.15210E+02	.45305E+00
4.45	2.18871	.20159E+00	.36784E-02	.18247E-01	.15873E+02	.44899E+00
4.50	2.19360	.19802E+00	.34553E-02	.17449E-01	.16562E+02	.44499E+00
4.55	2.19836	.19453E+00	.32470E-02	.16691E-01	.17277E+02	.44106E+00
4.60	2.20300	.19113E+00	.30526E-02	.15971E-01	.18018E+02	.43719E+00
4.65	2.20752	.18781E+00	.28709E-02	.15286E-01	.18786E+02	.43337E+00
4.70	2.21192	.18457E+00	.27012E-02	.14635E-01	.19583E+02	.42962E+00
4.75	2.21621	.18141E+00	.25426E-02	.14016E-01	.20408E+02	.42592E+00
4.80	2.22038	.17832E+00	.23943E-02	.13427E-01	.21264E+02	.42228E+00
4.85	2.22445	.17530E+00	.22555E-02	.12866E-01	.22150E+02	.41869E+00
4.90	2.22842	.17235E+00	.21256E-02	.12333E-01	.23067E+02	.41516E+00
4.95	2.23229	.16948E+00	.20040E-02	.11824E-01	.24017E+02	.41168E+00
5.00	2.23607	.16667E+00	.18900E-02	.11340E-01	.25000E+02	.40825E+00
5.10	2.24334	.16124E+00	.16832E-02	.10439E-01	.27070E+02	.40154E+00
5.20	2.25026	.15605E+00	.15013E-02	.96204E-02	.29283E+02	.39504E+00
5.30	2.25685	.15110E+00	.13411E-02	.88753E-02	.31649E+02	.38872E+00
5.40	2.26314	.14637E+00	.11997E-02	.81965E-02	.34175E+02	.38258E+00
5.50	2.26913	.14184E+00	.10748E-02	.75775E-02	.36869E+02	.37662E+00
5.60	2.27484	.13751E+00	.96430E-03	.70124E-02	.39740E+02	.37083E+00
5.70	2.28030	.13337E+00	.86635E-03	.64959E-02	.42797E+02	.36520E+00
5.80	2.28552	.12940E+00	.77941E-03	.60233E-02	.46050E+02	.35972E+00
5.90	2.29051	.12560E+00	.70214E-03	.55904E-02	.49507E+02	.35440E+00

Tabella A.1 - Flussi Isentropici, $\gamma = 1.4$

M	M^*	$\frac{T}{T_0}$	$\frac{p}{p_0}$	$\frac{\rho}{\rho_0}$	$\frac{A}{A^*}$	$\frac{a}{a_0}$
6.00	2.29528	.12195E+00	.63336E-03	.51936E-02	.53180E+02	.34922E+00
6.10	2.29984	.11846E+00	.57206E-03	.48293E-02	.57077E+02	.34417E+00
6.20	2.30421	.11510E+00	.51735E-03	.44947E-02	.61210E+02	.33927E+00
6.30	2.30840	.11188E+00	.46845E-03	.41870E-02	.65590E+02	.33449E+00
6.40	2.31241	.10879E+00	.42468E-03	.39037E-02	.70227E+02	.32983E+00
6.50	2.31626	.10582E+00	.38547E-03	.36427E-02	.75134E+02	.32530E+00
6.60	2.31996	.10297E+00	.35028E-03	.34020E-02	.80323E+02	.32088E+00
6.70	2.32351	.10022E+00	.31868E-03	.31797E-02	.85805E+02	.31658E+00
6.80	2.32691	.97580E-01	.29024E-03	.29744E-02	.91593E+02	.31238E+00
6.90	2.33019	.95039E-01	.26464E-03	.27845E-02	.97702E+02	.30828E+00
7.00	2.33333	.92593E-01	.24156E-03	.26088E-02	.10414E+03	.30429E+00
7.10	2.33636	.90236E-01	.22072E-03	.24460E-02	.11093E+03	.30039E+00
7.20	2.33927	.87966E-01	.20189E-03	.22950E-02	.11808E+03	.29659E+00
7.30	2.34208	.85778E-01	.18485E-03	.21550E-02	.12560E+03	.29288E+00
7.40	2.34478	.83668E-01	.16942E-03	.20249E-02	.13352E+03	.28925E+00
7.50	2.34738	.81633E-01	.15543E-03	.19040E-02	.14184E+03	.28571E+00
7.60	2.34989	.79669E-01	.14273E-03	.17915E-02	.15058E+03	.28226E+00
7.70	2.35231	.77773E-01	.13119E-03	.16868E-02	.15977E+03	.27888E+00
7.80	2.35464	.75942E-01	.12069E-03	.15893E-02	.16940E+03	.27558E+00
7.90	2.35690	.74173E-01	.11114E-03	.14984E-02	.17951E+03	.27235E+00
8.00	2.35907	.72464E-01	.10243E-03	.14135E-02	.19011E+03	.26919E+00
8.10	2.36117	.70812E-01	.94485E-04	.13343E-02	.20121E+03	.26610E+00
8.20	2.36320	.69214E-01	.87232E-04	.12603E-02	.21285E+03	.26309E+00
8.30	2.36516	.67668E-01	.80602E-04	.11911E-02	.22502E+03	.26013E+00
8.40	2.36706	.66173E-01	.74537E-04	.11264E-02	.23776E+03	.25724E+00
8.50	2.36889	.64725E-01	.68984E-04	.10658E-02	.25109E+03	.25441E+00
8.60	2.37067	.63323E-01	.63895E-04	.10090E-02	.26501E+03	.25164E+00
8.70	2.37238	.61966E-01	.59228E-04	.95582E-03	.27957E+03	.24893E+00
8.80	2.37405	.60650E-01	.54943E-04	.90590E-03	.29477E+03	.24627E+00
8.90	2.37566	.59375E-01	.51006E-04	.85904E-03	.31063E+03	.24367E+00
9.00	2.37722	.58140E-01	.47386E-04	.81504E-03	.32719E+03	.24112E+00
9.10	2.37873	.56941E-01	.44055E-04	.77369E-03	.34446E+03	.23862E+00
9.20	2.38020	.55779E-01	.40986E-04	.73480E-03	.36246E+03	.23618E+00
9.30	2.38162	.54651E-01	.38158E-04	.69822E-03	.38123E+03	.23378E+00
9.40	2.38299	.53556E-01	.35549E-04	.66378E-03	.40078E+03	.23142E+00
9.50	2.38433	.52493E-01	.33141E-04	.63134E-03	.42113E+03	.22911E+00
9.60	2.38563	.51461E-01	.30916E-04	.60077E-03	.44232E+03	.22685E+00
9.70	2.38689	.50459E-01	.28860E-04	.57194E-03	.46437E+03	.22463E+00
9.80	2.38811	.49485E-01	.26957E-04	.54474E-03	.48731E+03	.22245E+00
9.90	2.38930	.48539E-01	.25195E-04	.51907E-03	.51115E+03	.22032E+00
10.00	2.39046	.47619E-01	.23563E-04	.49482E-03	.53594E+03	.21822E+00
11.00	2.40040	.39683E-01	.12448E-04	.31369E-03	.84191E+03	.19920E+00
12.00	2.40804	.33557E-01	.69222E-05	.20628E-03	.12762E+04	.18319E+00
13.00	2.41404	.28736E-01	.40223E-05	.13998E-03	.18761E+04	.16952E+00
14.00	2.41883	.24876E-01	.24278E-05	.97596E-04	.26854E+04	.15772E+00
15.00	2.42272	.21739E-01	.15148E-05	.69679E-04	.37553E+04	.14744E+00
16.00	2.42591	.19157E-01	.97309E-06	.50795E-04	.51446E+04	.13841E+00
17.00	2.42857	.17007E-01	.64147E-06	.37719E-04	.69205E+04	.13041E+00
18.00	2.43081	.15198E-01	.43272E-06	.28473E-04	.91593E+04	.12328E+00
19.00	2.43270	.13661E-01	.29800E-06	.21813E-04	.11946E+05	.11688E+00
20.00	2.43432	.12346E-01	.20907E-06	.16935E-04	.15377E+05	.11111E+00
∞	2.44950	.00000E+00	.00000E+00	.00000E+00	∞	.00000E+00

Tabella A.2 - Urto Normale, $\gamma = 1.4$

M_1	M_2	$\frac{\rho_2}{\rho_1} = \frac{V_1}{V_2}$	$\frac{T_2}{T_1}$	$\frac{p_2}{p_1}$	$\frac{p_{02}}{p_{01}} = \frac{A_1^*}{A_2^*}$	$\frac{a_2}{a_1}$
1.00	1.00000	.10000E+01	.10000E+01	.10000E+01	.10000E+01	.10000E+01
1.01	.99013	.10167E+01	.10066E+01	.10234E+01	.10000E+01	.10033E+01
1.02	.98052	.10334E+01	.10132E+01	.10471E+01	.99999E+00	.10066E+01
1.03	.97115	.10502E+01	.10198E+01	.10710E+01	.99997E+00	.10099E+01
1.04	.96203	.10671E+01	.10263E+01	.10952E+01	.99992E+00	.10131E+01
1.05	.95313	.10840E+01	.10328E+01	.11196E+01	.99985E+00	.10163E+01
1.06	.94445	.11009E+01	.10393E+01	.11442E+01	.99975E+00	.10195E+01
1.07	.93598	.11179E+01	.10458E+01	.11690E+01	.99961E+00	.10226E+01
1.08	.92771	.11349E+01	.10522E+01	.11941E+01	.99943E+00	.10258E+01
1.09	.91965	.11520E+01	.10586E+01	.12194E+01	.99920E+00	.10289E+01
1.10	.91177	.11691E+01	.10649E+01	.12450E+01	.99893E+00	.10320E+01
1.11	.90408	.11862E+01	.10713E+01	.12708E+01	.99860E+00	.10350E+01
1.12	.89656	.12034E+01	.10776E+01	.12968E+01	.99821E+00	.10381E+01
1.13	.88922	.12206E+01	.10840E+01	.13230E+01	.99777E+00	.10411E+01
1.14	.88204	.12378E+01	.10903E+01	.13495E+01	.99726E+00	.10442E+01
1.15	.87502	.12550E+01	.10966E+01	.13762E+01	.99669E+00	.10472E+01
1.16	.86816	.12723E+01	.11029E+01	.14032E+01	.99605E+00	.10502E+01
1.17	.86145	.12896E+01	.11092E+01	.14304E+01	.99535E+00	.10532E+01
1.18	.85488	.13069E+01	.11154E+01	.14578E+01	.99457E+00	.10561E+01
1.19	.84846	.13243E+01	.11217E+01	.14854E+01	.99372E+00	.10591E+01
1.20	.84217	.13416E+01	.11280E+01	.15133E+01	.99280E+00	.10621E+01
1.21	.83601	.13590E+01	.11343E+01	.15414E+01	.99180E+00	.10650E+01
1.22	.82999	.13764E+01	.11405E+01	.15698E+01	.99073E+00	.10680E+01
1.23	.82408	.13938E+01	.11468E+01	.15984E+01	.98958E+00	.10709E+01
1.24	.81830	.14112E+01	.11531E+01	.16272E+01	.98836E+00	.10738E+01
1.25	.81264	.14286E+01	.11594E+01	.16562E+01	.98706E+00	.10767E+01
1.26	.80709	.14460E+01	.11657E+01	.16855E+01	.98568E+00	.10797E+01
1.27	.80165	.14634E+01	.11720E+01	.17150E+01	.98422E+00	.10826E+01
1.28	.79631	.14808E+01	.11783E+01	.17448E+01	.98268E+00	.10855E+01
1.29	.79108	.14983E+01	.11846E+01	.17748E+01	.98107E+00	.10884E+01
1.30	.78596	.15157E+01	.11909E+01	.18050E+01	.97937E+00	.10913E+01
1.31	.78093	.15331E+01	.11972E+01	.18354E+01	.97760E+00	.10942E+01
1.32	.77600	.15505E+01	.12035E+01	.18661E+01	.97575E+00	.10971E+01
1.33	.77116	.15680E+01	.12099E+01	.18970E+01	.97382E+00	.10999E+01
1.34	.76641	.15854E+01	.12162E+01	.19282E+01	.97182E+00	.11028E+01
1.35	.76175	.16028E+01	.12226E+01	.19596E+01	.96974E+00	.11057E+01
1.36	.75718	.16202E+01	.12290E+01	.19912E+01	.96758E+00	.11086E+01
1.37	.75269	.16376E+01	.12354E+01	.20230E+01	.96534E+00	.11115E+01
1.38	.74829	.16549E+01	.12418E+01	.20551E+01	.96304E+00	.11144E+01
1.39	.74396	.16723E+01	.12482E+01	.20874E+01	.96065E+00	.11172E+01
1.40	.73971	.16897E+01	.12547E+01	.21200E+01	.95819E+00	.11201E+01
1.41	.73554	.17070E+01	.12612E+01	.21528E+01	.95566E+00	.11230E+01
1.42	.73144	.17243E+01	.12676E+01	.21858E+01	.95306E+00	.11259E+01
1.43	.72741	.17416E+01	.12741E+01	.22190E+01	.95039E+00	.11288E+01
1.44	.72345	.17589E+01	.12807E+01	.22525E+01	.94765E+00	.11317E+01
1.45	.71956	.17761E+01	.12872E+01	.22862E+01	.94484E+00	.11346E+01
1.46	.71574	.17934E+01	.12938E+01	.23202E+01	.94196E+00	.11374E+01
1.47	.71198	.18106E+01	.13003E+01	.23544E+01	.93901E+00	.11403E+01
1.48	.70829	.18278E+01	.13069E+01	.23888E+01	.93600E+00	.11432E+01
1.49	.70466	.18449E+01	.13136E+01	.24234E+01	.93293E+00	.11461E+01

Tabella A.2 - Urto Normale, $\gamma = 1.4$

M_1	M_2	$\frac{\rho_2}{\rho_1} = \frac{V_1}{V_2}$	$\frac{T_2}{T_1}$	$\frac{p_2}{p_1}$	$\frac{p_{0_2}}{p_{0_1}} = \frac{A_1^*}{A_2^*}$	$\frac{a_2}{a_1}$
1.50	.70109	.18621E+01	.13202E+01	.24583E+01	.92979E+00	.11490E+01
1.51	.69758	.18792E+01	.13269E+01	.24934E+01	.92659E+00	.11519E+01
1.52	.69413	.18963E+01	.13336E+01	.25288E+01	.92332E+00	.11548E+01
1.53	.69073	.19133E+01	.13403E+01	.25644E+01	.92000E+00	.11577E+01
1.54	.68739	.19303E+01	.13470E+01	.26002E+01	.91662E+00	.11606E+01
1.55	.68410	.19473E+01	.13538E+01	.26362E+01	.91319E+00	.11635E+01
1.56	.68087	.19643E+01	.13606E+01	.26725E+01	.90970E+00	.11664E+01
1.57	.67769	.19812E+01	.13674E+01	.27090E+01	.90615E+00	.11694E+01
1.58	.67455	.19981E+01	.13742E+01	.27458E+01	.90255E+00	.11723E+01
1.59	.67147	.20149E+01	.13811E+01	.27828E+01	.89890E+00	.11752E+01
1.60	.66844	.20317E+01	.13880E+01	.28200E+01	.89520E+00	.11781E+01
1.61	.66545	.20485E+01	.13949E+01	.28574E+01	.89145E+00	.11811E+01
1.62	.66251	.20653E+01	.14018E+01	.28951E+01	.88765E+00	.11840E+01
1.63	.65962	.20820E+01	.14088E+01	.29330E+01	.88381E+00	.11869E+01
1.64	.65677	.20986E+01	.14158E+01	.29712E+01	.87992E+00	.11899E+01
1.65	.65396	.21152E+01	.14228E+01	.30096E+01	.87599E+00	.11928E+01
1.66	.65119	.21318E+01	.14299E+01	.30482E+01	.87201E+00	.11958E+01
1.67	.64847	.21484E+01	.14369E+01	.30870E+01	.86800E+00	.11987E+01
1.68	.64579	.21649E+01	.14440E+01	.31261E+01	.86394E+00	.12017E+01
1.69	.64315	.21813E+01	.14512E+01	.31654E+01	.85985E+00	.12046E+01
1.70	.64054	.21977E+01	.14583E+01	.32050E+01	.85572E+00	.12076E+01
1.71	.63798	.22141E+01	.14655E+01	.32448E+01	.85156E+00	.12106E+01
1.72	.63545	.22304E+01	.14727E+01	.32848E+01	.84736E+00	.12136E+01
1.73	.63296	.22467E+01	.14800E+01	.33250E+01	.84312E+00	.12165E+01
1.74	.63051	.22629E+01	.14873E+01	.33655E+01	.83886E+00	.12195E+01
1.75	.62809	.22791E+01	.14946E+01	.34062E+01	.83457E+00	.12225E+01
1.76	.62570	.22952E+01	.15019E+01	.34472E+01	.83024E+00	.12255E+01
1.77	.62335	.23113E+01	.15093E+01	.34884E+01	.82589E+00	.12285E+01
1.78	.62104	.23273E+01	.15167E+01	.35298E+01	.82151E+00	.12315E+01
1.79	.61875	.23433E+01	.15241E+01	.35714E+01	.81711E+00	.12346E+01
1.80	.61650	.23592E+01	.15316E+01	.36133E+01	.81268E+00	.12376E+01
1.81	.61428	.23751E+01	.15391E+01	.36554E+01	.80824E+00	.12406E+01
1.82	.61209	.23909E+01	.15466E+01	.36978E+01	.80376E+00	.12436E+01
1.83	.60993	.24067E+01	.15541E+01	.37404E+01	.79927E+00	.12467E+01
1.84	.60780	.24224E+01	.15617E+01	.37832E+01	.79476E+00	.12497E+01
1.85	.60570	.24381E+01	.15693E+01	.38262E+01	.79023E+00	.12527E+01
1.86	.60363	.24537E+01	.15770E+01	.38695E+01	.78569E+00	.12558E+01
1.87	.60159	.24693E+01	.15847E+01	.39130E+01	.78113E+00	.12588E+01
1.88	.59957	.24848E+01	.15924E+01	.39568E+01	.77655E+00	.12619E+01
1.89	.59758	.25003E+01	.16001E+01	.40008E+01	.77196E+00	.12650E+01
1.90	.59562	.25157E+01	.16079E+01	.40450E+01	.76736E+00	.12680E+01
1.91	.59368	.25310E+01	.16157E+01	.40894E+01	.76274E+00	.12711E+01
1.92	.59177	.25463E+01	.16236E+01	.41341E+01	.75812E+00	.12742E+01
1.93	.58988	.25616E+01	.16314E+01	.41790E+01	.75349E+00	.12773E+01
1.94	.58802	.25767E+01	.16394E+01	.42242E+01	.74884E+00	.12804E+01
1.95	.58619	.25919E+01	.16473E+01	.42696E+01	.74420E+00	.12835E+01
1.96	.58437	.26069E+01	.16553E+01	.43152E+01	.73954E+00	.12866E+01
1.97	.58258	.26220E+01	.16633E+01	.43610E+01	.73488E+00	.12897E+01
1.98	.58082	.26369E+01	.16713E+01	.44071E+01	.73021E+00	.12928E+01
1.99	.57907	.26518E+01	.16794E+01	.44534E+01	.72555E+00	.12959E+01

Tabella A.2 - Urto Normale, $\gamma = 1.4$

M_1	M_2	$\frac{\rho_2}{\rho_1} = \frac{V_1}{V_2}$	$\frac{T_2}{T_1}$	$\frac{p_2}{p_1}$	$\frac{p_{02}}{p_{01}} = \frac{A_1^*}{A_2^*}$	$\frac{a_2}{a_1}$
2.00	.57735	.26667E+01	.16875E+01	.45000E+01	.72087E+00	.12990E+01
2.01	.57565	.26815E+01	.16956E+01	.45468E+01	.71620E+00	.13022E+01
2.02	.57397	.26962E+01	.17038E+01	.45938E+01	.71153E+00	.13053E+01
2.03	.57232	.27108E+01	.17120E+01	.46410E+01	.70685E+00	.13084E+01
2.04	.57068	.27255E+01	.17203E+01	.46885E+01	.70218E+00	.13116E+01
2.05	.56906	.27400E+01	.17285E+01	.47362E+01	.69751E+00	.13147E+01
2.06	.56747	.27545E+01	.17369E+01	.47842E+01	.69284E+00	.13179E+01
2.07	.56589	.27689E+01	.17452E+01	.48324E+01	.68817E+00	.13211E+01
2.08	.56433	.27833E+01	.17536E+01	.48808E+01	.68351E+00	.13242E+01
2.09	.56280	.27976E+01	.17620E+01	.49294E+01	.67886E+00	.13274E+01
2.10	.56128	.28119E+01	.17704E+01	.49783E+01	.67420E+00	.13306E+01
2.11	.55978	.28261E+01	.17789E+01	.50274E+01	.66956E+00	.13338E+01
2.12	.55829	.28402E+01	.17875E+01	.50768E+01	.66492E+00	.13370E+01
2.13	.55683	.28543E+01	.17960E+01	.51264E+01	.66029E+00	.13402E+01
2.14	.55538	.28683E+01	.18046E+01	.51762E+01	.65567E+00	.13434E+01
2.15	.55395	.28823E+01	.18132E+01	.52262E+01	.65105E+00	.13466E+01
2.16	.55254	.28962E+01	.18219E+01	.52765E+01	.64645E+00	.13498E+01
2.17	.55115	.29100E+01	.18306E+01	.53270E+01	.64185E+00	.13530E+01
2.18	.54977	.29238E+01	.18393E+01	.53778E+01	.63727E+00	.13562E+01
2.19	.54840	.29376E+01	.18481E+01	.54288E+01	.63270E+00	.13594E+01
2.20	.54706	.29512E+01	.18569E+01	.54800E+01	.62814E+00	.13627E+01
2.21	.54572	.29648E+01	.18657E+01	.55314E+01	.62359E+00	.13659E+01
2.22	.54441	.29784E+01	.18746E+01	.55831E+01	.61905E+00	.13691E+01
2.23	.54311	.29918E+01	.18835E+01	.56350E+01	.61453E+00	.13724E+01
2.24	.54182	.30053E+01	.18924E+01	.56872E+01	.61002E+00	.13756E+01
2.25	.54055	.30186E+01	.19014E+01	.57396E+01	.60553E+00	.13789E+01
2.26	.53930	.30319E+01	.19104E+01	.57922E+01	.60105E+00	.13822E+01
2.27	.53805	.30452E+01	.19194E+01	.58450E+01	.59659E+00	.13854E+01
2.28	.53683	.30584E+01	.19285E+01	.58981E+01	.59214E+00	.13887E+01
2.29	.53561	.30715E+01	.19376E+01	.59514E+01	.58771E+00	.13920E+01
2.30	.53441	.30845E+01	.19468E+01	.60050E+01	.58330E+00	.13953E+01
2.31	.53322	.30975E+01	.19560E+01	.60588E+01	.57890E+00	.13986E+01
2.32	.53205	.31105E+01	.19652E+01	.61128E+01	.57452E+00	.14019E+01
2.33	.53089	.31234E+01	.19745E+01	.61670E+01	.57016E+00	.14052E+01
2.34	.52974	.31362E+01	.19838E+01	.62215E+01	.56581E+00	.14085E+01
2.35	.52861	.31490E+01	.19931E+01	.62762E+01	.56149E+00	.14118E+01
2.36	.52749	.31617E+01	.20025E+01	.63312E+01	.55718E+00	.14151E+01
2.37	.52638	.31743E+01	.20119E+01	.63864E+01	.55289E+00	.14184E+01
2.38	.52528	.31869E+01	.20213E+01	.64418E+01	.54862E+00	.14217E+01
2.39	.52419	.31994E+01	.20308E+01	.64974E+01	.54437E+00	.14251E+01
2.40	.52312	.32119E+01	.20403E+01	.65533E+01	.54014E+00	.14284E+01
2.41	.52206	.32243E+01	.20499E+01	.66094E+01	.53594E+00	.14317E+01
2.42	.52100	.32367E+01	.20595E+01	.66658E+01	.53175E+00	.14351E+01
2.43	.51996	.32489E+01	.20691E+01	.67224E+01	.52758E+00	.14384E+01
2.44	.51894	.32612E+01	.20788E+01	.67792E+01	.52344E+00	.14418E+01
2.45	.51792	.32733E+01	.20885E+01	.68362E+01	.51931E+00	.14451E+01
2.46	.51691	.32855E+01	.20982E+01	.68935E+01	.51521E+00	.14485E+01
2.47	.51592	.32975E+01	.21080E+01	.69510E+01	.51113E+00	.14519E+01
2.48	.51493	.33095E+01	.21178E+01	.70088E+01	.50707E+00	.14553E+01
2.49	.51395	.33215E+01	.21276E+01	.70668E+01	.50303E+00	.14586E+01

Tabella A.2 - Urto Normale, $\gamma = 1.4$

M_1	M_2	$\frac{\rho_2}{\rho_1} = \frac{V_1}{V_2}$	$\frac{T_2}{T_1}$	$\frac{p_2}{p_1}$	$\frac{p_{0_2}}{p_{0_1}} = \frac{A_1^*}{A_2^*}$	$\frac{a_2}{a_1}$
2.50	.51299	.33333E+01	.21375E+01	.71250E+01	.49902E+00	.14620E+01
2.51	.51203	.33452E+01	.21474E+01	.71834E+01	.49502E+00	.14654E+01
2.52	.51109	.33569E+01	.21574E+01	.72421E+01	.49105E+00	.14688E+01
2.53	.51015	.33686E+01	.21674E+01	.73010E+01	.48711E+00	.14722E+01
2.54	.50923	.33803E+01	.21774E+01	.73602E+01	.48318E+00	.14756E+01
2.55	.50831	.33919E+01	.21875E+01	.74196E+01	.47928E+00	.14790E+01
2.56	.50741	.34034E+01	.21976E+01	.74792E+01	.47540E+00	.14824E+01
2.57	.50651	.34149E+01	.22077E+01	.75390E+01	.47155E+00	.14858E+01
2.58	.50562	.34263E+01	.22179E+01	.75991E+01	.46772E+00	.14893E+01
2.59	.50474	.34377E+01	.22281E+01	.76594E+01	.46391E+00	.14927E+01
2.60	.50387	.34490E+01	.22383E+01	.77200E+01	.46012E+00	.14961E+01
2.61	.50301	.34602E+01	.22486E+01	.77808E+01	.45636E+00	.14995E+01
2.62	.50216	.34714E+01	.22590E+01	.78418E+01	.45263E+00	.15030E+01
2.63	.50131	.34826E+01	.22693E+01	.79030E+01	.44891E+00	.15064E+01
2.64	.50048	.34936E+01	.22797E+01	.79645E+01	.44522E+00	.15099E+01
2.65	.49965	.35047E+01	.22902E+01	.80262E+01	.44156E+00	.15133E+01
2.66	.49883	.35156E+01	.23006E+01	.80882E+01	.43792E+00	.15168E+01
2.67	.49802	.35266E+01	.23111E+01	.81504E+01	.43430E+00	.15202E+01
2.68	.49722	.35374E+01	.23217E+01	.82128E+01	.43071E+00	.15237E+01
2.69	.49642	.35482E+01	.23323E+01	.82754E+01	.42714E+00	.15272E+01
2.70	.49563	.35590E+01	.23429E+01	.83383E+01	.42359E+00	.15307E+01
2.71	.49485	.35697E+01	.23535E+01	.84014E+01	.42007E+00	.15341E+01
2.72	.49408	.35803E+01	.23642E+01	.84648E+01	.41657E+00	.15376E+01
2.73	.49332	.35909E+01	.23750E+01	.85284E+01	.41310E+00	.15411E+01
2.74	.49256	.36015E+01	.23858E+01	.85922E+01	.40965E+00	.15446E+01
2.75	.49181	.36119E+01	.23966E+01	.86562E+01	.40623E+00	.15481E+01
2.76	.49107	.36224E+01	.24074E+01	.87205E+01	.40283E+00	.15516E+01
2.77	.49033	.36327E+01	.24183E+01	.87850E+01	.39945E+00	.15551E+01
2.78	.48960	.36431E+01	.24292E+01	.88498E+01	.39610E+00	.15586E+01
2.79	.48888	.36533E+01	.24402E+01	.89148E+01	.39277E+00	.15621E+01
2.80	.48817	.36635E+01	.24512E+01	.89800E+01	.38946E+00	.15656E+01
2.81	.48746	.36737E+01	.24622E+01	.90454E+01	.38618E+00	.15691E+01
2.82	.48676	.36838E+01	.24733E+01	.91111E+01	.38293E+00	.15727E+01
2.83	.48606	.36939E+01	.24844E+01	.91770E+01	.37970E+00	.15762E+01
2.84	.48538	.37039E+01	.24955E+01	.92432E+01	.37649E+00	.15797E+01
2.85	.48469	.37138E+01	.25067E+01	.93096E+01	.37330E+00	.15833E+01
2.86	.48402	.37238E+01	.25179E+01	.93762E+01	.37014E+00	.15868E+01
2.87	.48335	.37336E+01	.25292E+01	.94430E+01	.36700E+00	.15903E+01
2.88	.48269	.37434E+01	.25405E+01	.95101E+01	.36389E+00	.15939E+01
2.89	.48203	.37532E+01	.25518E+01	.95774E+01	.36080E+00	.15974E+01
2.90	.48138	.37629E+01	.25632E+01	.96450E+01	.35773E+00	.16010E+01
2.91	.48074	.37725E+01	.25746E+01	.97128E+01	.35469E+00	.16046E+01
2.92	.48010	.37821E+01	.25861E+01	.97808E+01	.35167E+00	.16081E+01
2.93	.47946	.37917E+01	.25975E+01	.98490E+01	.34867E+00	.16117E+01
2.94	.47884	.38012E+01	.26091E+01	.99175E+01	.34570E+00	.16153E+01
2.95	.47822	.38106E+01	.26206E+01	.99862E+01	.34275E+00	.16188E+01
2.96	.47760	.38200E+01	.26322E+01	.10055E+02	.33982E+00	.16224E+01
2.97	.47699	.38294E+01	.26439E+01	.10124E+02	.33692E+00	.16260E+01
2.98	.47638	.38387E+01	.26555E+01	.10194E+02	.33404E+00	.16296E+01
2.99	.47579	.38479E+01	.26673E+01	.10263E+02	.33118E+00	.16332E+01

Tabella A.2 - Urto Normale, $\gamma = 1.4$

M_1	M_2	$\frac{\rho_2}{\rho_1} = \frac{V_1}{V_2}$	$\frac{T_2}{T_1}$	$\frac{p_2}{p_1}$	$\frac{p_{02}}{p_{01}} = \frac{A_1^*}{A_2^*}$	$\frac{a_2}{a_1}$
3.00	.47519	.38571E+01	.26790E+01	.10333E+02	.32834E+00	.16368E+01
3.05	.47230	.39025E+01	.27383E+01	.10686E+02	.31450E+00	.16548E+01
3.10	.46953	.39466E+01	.27986E+01	.11045E+02	.30121E+00	.16729E+01
3.15	.46689	.39896E+01	.28598E+01	.11410E+02	.28846E+00	.16911E+01
3.20	.46435	.40315E+01	.29220E+01	.11780E+02	.27623E+00	.17094E+01
3.25	.46192	.40723E+01	.29851E+01	.12156E+02	.26451E+00	.17277E+01
3.30	.45959	.41120E+01	.30492E+01	.12538E+02	.25328E+00	.17462E+01
3.35	.45735	.41507E+01	.31142E+01	.12926E+02	.24252E+00	.17647E+01
3.40	.45520	.41884E+01	.31802E+01	.13320E+02	.23223E+00	.17833E+01
3.45	.45314	.42251E+01	.32471E+01	.13720E+02	.22237E+00	.18020E+01
3.50	.45115	.42609E+01	.33150E+01	.14125E+02	.21295E+00	.18207E+01
3.55	.44925	.42957E+01	.33839E+01	.14536E+02	.20393E+00	.18395E+01
3.60	.44741	.43296E+01	.34537E+01	.14953E+02	.19531E+00	.18584E+01
3.65	.44565	.43627E+01	.35245E+01	.15376E+02	.18707E+00	.18774E+01
3.70	.44395	.43949E+01	.35962E+01	.15805E+02	.17919E+00	.18964E+01
3.75	.44231	.44262E+01	.36689E+01	.16240E+02	.17167E+00	.19154E+01
3.80	.44073	.44568E+01	.37426E+01	.16680E+02	.16447E+00	.19346E+01
3.85	.43921	.44866E+01	.38172E+01	.17126E+02	.15760E+00	.19538E+01
3.90	.43774	.45156E+01	.38928E+01	.17578E+02	.15103E+00	.19730E+01
3.95	.43633	.45439E+01	.39694E+01	.18036E+02	.14475E+00	.19923E+01
4.00	.43496	.45714E+01	.40469E+01	.18500E+02	.13876E+00	.20117E+01
4.05	.43364	.45983E+01	.41253E+01	.18970E+02	.13303E+00	.20311E+01
4.10	.43236	.46245E+01	.42048E+01	.19445E+02	.12756E+00	.20506E+01
4.15	.43113	.46500E+01	.42852E+01	.19926E+02	.12233E+00	.20701E+01
4.20	.42994	.46749E+01	.43666E+01	.20413E+02	.11733E+00	.20896E+01
4.25	.42878	.46992E+01	.44489E+01	.20906E+02	.11256E+00	.21092E+01
4.30	.42767	.47229E+01	.45322E+01	.21405E+02	.10800E+00	.21289E+01
4.35	.42659	.47459E+01	.46165E+01	.21910E+02	.10364E+00	.21486E+01
4.40	.42554	.47685E+01	.47017E+01	.22420E+02	.99481E-01	.21683E+01
4.45	.42453	.47904E+01	.47879E+01	.22936E+02	.95501E-01	.21881E+01
4.50	.42355	.48119E+01	.48751E+01	.23458E+02	.91698E-01	.22080E+01
4.55	.42260	.48328E+01	.49632E+01	.23986E+02	.88062E-01	.22278E+01
4.60	.42168	.48532E+01	.50523E+01	.24520E+02	.84587E-01	.22477E+01
4.65	.42079	.48731E+01	.51424E+01	.25060E+02	.81263E-01	.22677E+01
4.70	.41992	.48926E+01	.52334E+01	.25605E+02	.78086E-01	.22877E+01
4.75	.41908	.49116E+01	.53254E+01	.26156E+02	.75047E-01	.23077E+01
4.80	.41826	.49301E+01	.54184E+01	.26713E+02	.72140E-01	.23277E+01
4.85	.41747	.49482E+01	.55124E+01	.27276E+02	.69359E-01	.23478E+01
4.90	.41670	.49659E+01	.56073E+01	.27845E+02	.66699E-01	.23680E+01
4.95	.41595	.49831E+01	.57032E+01	.28420E+02	.64153E-01	.23881E+01
5.00	.41523	.50000E+01	.58000E+01	.29000E+02	.61716E-01	.24083E+01
5.10	.41384	.50326E+01	.59966E+01	.30178E+02	.57151E-01	.24488E+01
5.20	.41252	.50637E+01	.61971E+01	.31380E+02	.52966E-01	.24894E+01
5.30	.41127	.50934E+01	.64014E+01	.32605E+02	.49126E-01	.25301E+01
5.40	.41009	.51218E+01	.66097E+01	.33853E+02	.45601E-01	.25709E+01
5.50	.40897	.51489E+01	.68218E+01	.35125E+02	.42361E-01	.26119E+01
5.60	.40791	.51749E+01	.70378E+01	.36420E+02	.39383E-01	.26529E+01
5.70	.40690	.51998E+01	.72577E+01	.37738E+02	.36643E-01	.26940E+01
5.80	.40594	.52236E+01	.74814E+01	.39080E+02	.34120E-01	.27352E+01
5.90	.40503	.52464E+01	.77091E+01	.40445E+02	.31795E-01	.27765E+01

Tabella A.2 - Urto Normale, $\gamma = 1.4$

M_1	M_2	$\frac{\rho_2}{\rho_1} = \frac{V_1}{V_2}$	$\frac{T_2}{T_1}$	$\frac{p_2}{p_1}$	$\frac{p_{02}}{p_{01}} = \frac{A_1^*}{A_2^*}$	$\frac{a_2}{a_1}$
6.00	.40416	.52683E+01	.79406E+01	.41833E+02	.29651E-01	.28179E+01
6.10	.40333	.52893E+01	.81760E+01	.43245E+02	.27672E-01	.28594E+01
6.20	.40254	.53094E+01	.84153E+01	.44680E+02	.25845E-01	.29009E+01
6.30	.40179	.53287E+01	.86584E+01	.46138E+02	.24156E-01	.29425E+01
6.40	.40107	.53473E+01	.89055E+01	.47620E+02	.22594E-01	.29842E+01
6.50	.40038	.53651E+01	.91564E+01	.49125E+02	.21148E-01	.30260E+01
6.60	.39972	.53822E+01	.94113E+01	.50653E+02	.19808E-01	.30678E+01
6.70	.39909	.53987E+01	.96700E+01	.52205E+02	.18566E-01	.31097E+01
6.80	.39849	.54145E+01	.99325E+01	.53780E+02	.17414E-01	.31516E+01
6.90	.39791	.54298E+01	.10199E+02	.55378E+02	.16345E-01	.31936E+01
7.00	.39736	.54444E+01	.10469E+02	.57000E+02	.15351E-01	.32356E+01
7.10	.39683	.54586E+01	.10744E+02	.58645E+02	.14428E-01	.32777E+01
7.20	.39632	.54722E+01	.11022E+02	.60313E+02	.13569E-01	.33199E+01
7.30	.39583	.54853E+01	.11304E+02	.62005E+02	.12769E-01	.33621E+01
7.40	.39536	.54980E+01	.11590E+02	.63720E+02	.12023E-01	.34044E+01
7.50	.39491	.55102E+01	.11879E+02	.65458E+02	.11329E-01	.34467E+01
7.60	.39447	.55220E+01	.12173E+02	.67220E+02	.10680E-01	.34890E+01
7.70	.39405	.55334E+01	.12471E+02	.69005E+02	.10075E-01	.35314E+01
7.80	.39365	.55444E+01	.12772E+02	.70813E+02	.95102E-02	.35738E+01
7.90	.39326	.55550E+01	.13077E+02	.72645E+02	.89819E-02	.36163E+01
8.00	.39289	.55652E+01	.13387E+02	.74500E+02	.84878E-02	.36588E+01
8.10	.39253	.55751E+01	.13700E+02	.76378E+02	.80254E-02	.37013E+01
8.20	.39218	.55847E+01	.14017E+02	.78280E+02	.75924E-02	.37439E+01
8.30	.39185	.55940E+01	.14338E+02	.80205E+02	.71866E-02	.37865E+01
8.40	.39152	.56030E+01	.14662E+02	.82153E+02	.68061E-02	.38292E+01
8.50	.39121	.56117E+01	.14991E+02	.84125E+02	.64492E-02	.38718E+01
8.60	.39091	.56201E+01	.15324E+02	.86120E+02	.61141E-02	.39145E+01
8.70	.39062	.56282E+01	.15660E+02	.88138E+02	.57994E-02	.39573E+01
8.80	.39034	.56361E+01	.16000E+02	.90180E+02	.55036E-02	.40001E+01
8.90	.39006	.56437E+01	.16345E+02	.92245E+02	.52255E-02	.40429E+01
9.00	.38980	.56512E+01	.16693E+02	.94333E+02	.49639E-02	.40857E+01
9.10	.38954	.56584E+01	.17045E+02	.96445E+02	.47175E-02	.41285E+01
9.20	.38930	.56653E+01	.17401E+02	.98580E+02	.44855E-02	.41714E+01
9.30	.38906	.56721E+01	.17760E+02	.10074E+03	.42669E-02	.42143E+01
9.40	.38883	.56787E+01	.18124E+02	.10292E+03	.40608E-02	.42572E+01
9.50	.38860	.56850E+01	.18492E+02	.10513E+03	.38664E-02	.43002E+01
9.60	.38838	.56912E+01	.18863E+02	.10735E+03	.36828E-02	.43431E+01
9.70	.38817	.56972E+01	.19238E+02	.10961E+03	.35095E-02	.43861E+01
9.80	.38797	.57031E+01	.19617E+02	.11188E+03	.33458E-02	.44292E+01
9.90	.38777	.57088E+01	.20001E+02	.11418E+03	.31911E-02	.44722E+01
10.00	.38758	.57143E+01	.20388E+02	.11650E+03	.30447E-02	.45153E+01
11.00	.38592	.57619E+01	.24471E+02	.14100E+03	.19451E-02	.49468E+01
12.00	.38466	.57987E+01	.28943E+02	.16783E+03	.12866E-02	.53799E+01
13.00	.38368	.58276E+01	.33805E+02	.19700E+03	.87709E-03	.58142E+01
14.00	.38289	.58507E+01	.39055E+02	.22850E+03	.61379E-03	.62494E+01
15.00	.38226	.58696E+01	.44694E+02	.26233E+03	.43953E-03	.66853E+01
16.00	.38174	.58851E+01	.50722E+02	.29850E+03	.32119E-03	.71219E+01
17.00	.38131	.58980E+01	.57138E+02	.33700E+03	.23899E-03	.75590E+01
18.00	.38095	.59088E+01	.63944E+02	.37783E+03	.18072E-03	.79965E+01
19.00	.38065	.59180E+01	.71139E+02	.42100E+03	.13865E-03	.84344E+01
20.00	.38039	.59259E+01	.78722E+02	.46650E+03	.10777E-03	.88725E+01
∞	.37796	.60000E+01	∞	∞	.00000E-00	∞

Tabella A.3 - Caratteristiche odografe, $\gamma = 1.4$

<i>M</i>	$\omega(\text{gradi})$	<i>M</i>	$\omega(\text{gradi})$	<i>M</i>	$\omega(\text{gradi})$	<i>M</i>	$\omega(\text{gradi})$	<i>M</i>	$\omega(\text{gradi})$
1.00	.00	1.50	11.91	2.00	26.38	2.50	39.12	3.00	49.76
1.01	.04	1.51	12.20	2.01	26.66	2.51	39.36	3.02	50.14
1.02	.13	1.52	12.49	2.02	26.93	2.52	39.59	3.04	50.52
1.03	.23	1.53	12.79	2.03	27.20	2.53	39.82	3.06	50.90
1.04	.35	1.54	13.09	2.04	27.48	2.54	40.05	3.08	51.28
1.05	.49	1.55	13.38	2.05	27.75	2.55	40.28	3.10	51.65
1.06	.64	1.56	13.68	2.06	28.02	2.56	40.51	3.12	52.02
1.07	.80	1.57	13.97	2.07	28.29	2.57	40.74	3.14	52.39
1.08	.97	1.58	14.27	2.08	28.56	2.58	40.96	3.16	52.75
1.09	1.15	1.59	14.56	2.09	28.83	2.59	41.19	3.18	53.11
1.10	1.34	1.60	14.86	2.10	29.10	2.60	41.41	3.20	53.47
1.11	1.53	1.61	15.16	2.11	29.36	2.61	41.64	3.22	53.83
1.12	1.74	1.62	15.45	2.12	29.63	2.62	41.86	3.24	54.18
1.13	1.94	1.63	15.75	2.13	29.90	2.63	42.09	3.26	54.53
1.14	2.16	1.64	16.04	2.14	30.16	2.64	42.31	3.28	54.88
1.15	2.38	1.65	16.34	2.15	30.43	2.65	42.53	3.30	55.22
1.16	2.61	1.66	16.63	2.16	30.69	2.66	42.75	3.32	55.56
1.17	2.84	1.67	16.93	2.17	30.95	2.67	42.97	3.34	55.90
1.18	3.07	1.68	17.22	2.18	31.21	2.68	43.19	3.36	56.24
1.19	3.31	1.69	17.52	2.19	31.47	2.69	43.40	3.38	56.58
1.20	3.56	1.70	17.81	2.20	31.73	2.70	43.62	3.40	56.91
1.21	3.81	1.71	18.10	2.21	31.99	2.71	43.84	3.42	57.24
1.22	4.06	1.72	18.40	2.22	32.25	2.72	44.05	3.44	57.56
1.23	4.31	1.73	18.69	2.23	32.51	2.73	44.27	3.46	57.89
1.24	4.57	1.74	18.98	2.24	32.76	2.74	44.48	3.48	58.21
1.25	4.83	1.75	19.27	2.25	33.02	2.75	44.69	3.50	58.53
1.26	5.09	1.76	19.56	2.26	33.27	2.76	44.91	3.52	58.85
1.27	5.36	1.77	19.86	2.27	33.53	2.77	45.12	3.54	59.16
1.28	5.63	1.78	20.15	2.28	33.78	2.78	45.33	3.56	59.47
1.29	5.90	1.79	20.44	2.29	34.03	2.79	45.54	3.58	59.78
1.30	6.17	1.80	20.73	2.30	34.28	2.80	45.75	3.60	60.09
1.31	6.44	1.81	21.01	2.31	34.53	2.81	45.95	3.62	60.40
1.32	6.72	1.82	21.30	2.32	34.78	2.82	46.16	3.64	60.70
1.33	7.00	1.83	21.59	2.33	35.03	2.83	46.37	3.66	61.00
1.34	7.28	1.84	21.88	2.34	35.28	2.84	46.57	3.68	61.30
1.35	7.56	1.85	22.16	2.35	35.53	2.85	46.78	3.70	61.60
1.36	7.84	1.86	22.45	2.36	35.77	2.86	46.98	3.72	61.89
1.37	8.13	1.87	22.73	2.37	36.02	2.87	47.19	3.74	62.18
1.38	8.41	1.88	23.02	2.38	36.26	2.88	47.39	3.76	62.47
1.39	8.70	1.89	23.30	2.39	36.50	2.89	47.59	3.78	62.76
1.40	8.99	1.90	23.59	2.40	36.75	2.90	47.79	3.80	63.04
1.41	9.28	1.91	23.87	2.41	36.99	2.91	47.99	3.82	63.33
1.42	9.56	1.92	24.15	2.42	37.23	2.92	48.19	3.84	63.61
1.43	9.86	1.93	24.43	2.43	37.47	2.93	48.39	3.86	63.89
1.44	10.15	1.94	24.71	2.44	37.71	2.94	48.59	3.88	64.16
1.45	10.44	1.95	24.99	2.45	37.95	2.95	48.78	3.90	64.44
1.46	10.73	1.96	25.27	2.46	38.18	2.96	48.98	3.92	64.71
1.47	11.02	1.97	25.55	2.47	38.42	2.97	49.18	3.94	64.98
1.48	11.32	1.98	25.83	2.48	38.66	2.98	49.37	3.96	65.25
1.49	11.61	1.99	26.10	2.49	38.89	2.99	49.56	3.98	65.52

Tabella A.3 - Caratteristiche odografe, $\gamma = 1.4$

M	$\omega(\text{gradi})$	M	$\omega(\text{gradi})$	M	$\omega(\text{gradi})$	M	$\omega(\text{gradi})$
4.00	65.78	5.00	76.92	7.50	93.44	10.00	102.32
4.02	66.05	5.05	77.38	7.55	93.67	10.50	103.61
4.04	66.31	5.10	77.84	7.60	93.90	11.00	104.80
4.06	66.57	5.15	78.29	7.65	94.12	11.50	105.88
4.08	66.83	5.20	78.73	7.70	94.34	12.00	106.88
4.10	67.08	5.25	79.17	7.75	94.56	12.50	107.80
4.12	67.34	5.30	79.60	7.80	94.78	13.00	108.65
4.14	67.59	5.35	80.02	7.85	95.00	13.50	109.44
4.16	67.84	5.40	80.43	7.90	95.21	14.00	110.18
4.18	68.09	5.45	80.84	7.95	95.42	14.50	110.87
4.20	68.33	5.50	81.24	8.00	95.62	15.00	111.51
4.22	68.58	5.55	81.64	8.05	95.83	15.50	112.11
4.24	68.82	5.60	82.03	8.10	96.03	16.00	112.68
4.26	69.06	5.65	82.42	8.15	96.23	16.50	113.21
4.28	69.30	5.70	82.80	8.20	96.43	17.00	113.71
4.30	69.54	5.75	83.17	8.25	96.63	17.50	114.18
4.32	69.78	5.80	83.54	8.30	96.82	18.00	114.63
4.34	70.01	5.85	83.90	8.35	97.01	18.50	115.05
4.36	70.24	5.90	84.26	8.40	97.20	19.00	115.45
4.38	70.48	5.95	84.61	8.45	97.39	19.50	115.83
4.40	70.71	6.00	84.96	8.50	97.57	20.00	116.20
4.42	70.93	6.05	85.30	8.55	97.76	20.50	116.54
4.44	71.16	6.10	85.63	8.60	97.94	21.00	116.87
4.46	71.39	6.15	85.97	8.65	98.12	21.50	117.18
4.48	71.61	6.20	86.29	8.70	98.29	22.00	117.48
4.50	71.83	6.25	86.62	8.75	98.47	22.50	117.77
4.52	72.05	6.30	86.94	8.80	98.64	23.00	118.04
4.54	72.27	6.35	87.25	8.85	98.81	23.50	118.30
4.56	72.49	6.40	87.56	8.90	98.98	24.00	118.56
4.58	72.70	6.45	87.87	8.95	99.15	24.50	118.80
4.60	72.92	6.50	88.17	9.00	99.32	25.00	119.03
4.62	73.13	6.55	88.47	9.05	99.48	25.50	119.25
4.64	73.34	6.60	88.76	9.10	99.65	26.00	119.47
4.66	73.55	6.65	89.05	9.15	99.81	26.50	119.67
4.68	73.76	6.70	89.33	9.20	99.97	27.00	119.87
4.70	73.97	6.75	89.62	9.25	100.12	27.50	120.06
4.72	74.18	6.80	89.90	9.30	100.28	28.00	120.25
4.74	74.38	6.85	90.17	9.35	100.44	28.50	120.42
4.76	74.58	6.90	90.44	9.40	100.59	29.00	120.60
4.78	74.79	6.95	90.71	9.45	100.74	29.50	120.76
4.80	74.99	7.00	90.97	9.50	100.89	30.00	120.92
4.82	75.19	7.05	91.23	9.55	101.04	30.50	121.08
4.84	75.38	7.10	91.49	9.60	101.19	31.00	121.23
4.86	75.58	7.15	91.75	9.65	101.33	31.50	121.38
4.88	75.78	7.20	92.00	9.70	101.48	32.00	121.52
4.90	75.97	7.25	92.24	9.75	101.62	32.50	121.65
4.92	76.16	7.30	92.49	9.80	101.76	33.00	121.79
4.94	76.35	7.35	92.73	9.85	101.90	33.50	121.92
4.96	76.54	7.40	92.97	9.90	102.04	34.00	122.04
4.98	76.73	7.45	93.21	9.95	102.18	∞	130.45

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	M_1
σ_{max}		85.36	83.49	82.08	80.93	79.94	79.06	78.27	77.56	76.90	σ_{max}
δ_{max}		.05	.14	.26	.40	.56	.73	.91	1.10	1.30	δ_{max}
δ											δ
.5						77.32	74.20	72.04	70.25	68.69	.5
1.0									74.46	71.76	1.0
M_1	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	M_1
σ_{max}	76.30	75.73	75.21	74.72	74.26	73.82	73.41	73.02	72.66	72.31	σ_{max}
δ_{max}	1.52	1.73	1.96	2.19	2.43	2.67	2.92	3.17	3.42	3.68	δ_{max}
δ											δ
.5	67.29	66.01	64.83	63.72	62.68	61.70	60.77	59.89	59.04	58.23	.5
1.0	69.80	68.17	66.74	65.45	64.26	63.16	62.13	61.16	60.25	59.38	1.0
1.5	75.14	71.40	69.29	67.61	66.15	64.86	63.69	62.60	61.59	60.63	1.5
2.0				70.93	68.71	67.00	65.56	64.28	63.11	62.04	2.0
2.5						70.34	68.08	66.38	64.95	63.69	2.5
3.0								69.65	67.41	65.74	3.0
										68.89	3.5
M_1	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	M_1
σ_{max}	71.98	71.66	71.36	71.07	70.80	70.54	70.29	70.05	69.82	69.60	σ_{max}
δ_{max}	3.94	4.21	4.47	4.74	5.01	5.29	5.56	5.83	6.11	6.39	δ_{max}
δ											δ
.5	57.46	56.71	55.99	55.30	54.63	53.98	53.36	52.75	52.16	51.59	.5
1.0	58.55	57.75	56.99	56.26	55.56	54.88	54.22	53.59	52.98	52.39	1.0
1.5	59.73	58.88	58.07	57.29	56.54	55.83	55.14	54.48	53.84	53.22	1.5
2.0	61.05	60.12	59.24	58.40	57.60	56.84	56.12	55.42	54.75	54.10	2.0
2.5	62.55	61.50	60.53	59.61	58.75	57.93	57.16	56.42	55.71	55.02	2.5
3.0	64.34	63.11	61.99	60.97	60.02	59.13	58.29	57.49	56.73	56.01	3.0
3.5	66.72	65.10	63.74	62.54	61.45	60.46	59.53	58.66	57.85	57.07	3.5
4.0		68.09	66.03	64.47	63.15	61.99	60.93	59.96	59.06	58.22	4.0
4.5				67.28	65.35	63.85	62.58	61.46	60.44	59.49	4.5
5.0					69.90	66.50	64.69	63.26	62.04	60.95	5.0
5.5							68.46	65.75	64.06	62.69	5.5
6.0									67.38	65.05	6.0
M_1	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	M_1
σ_{max}	69.40	69.19	69.00	68.82	68.64	68.47	68.31	68.15	68.00	67.85	σ_{max}
δ_{max}	6.66	6.94	7.22	7.49	7.77	8.05	8.33	8.60	8.88	9.15	δ_{max}
δ											δ
.5	51.03	50.49	49.97	49.45	48.96	48.47	47.99	47.53	47.08	46.64	.5
1.0	51.81	51.25	50.71	50.18	49.67	49.17	48.68	48.20	47.74	47.28	1.0
1.5	52.62	52.04	51.48	50.93	50.40	49.89	49.38	48.89	48.42	47.95	1.5
2.0	53.47	52.87	52.28	51.72	51.16	50.63	50.11	49.61	49.12	48.64	2.0
2.5	54.37	53.74	53.13	52.54	51.96	51.41	50.87	50.35	49.84	49.35	2.5
3.0	55.31	54.65	54.01	53.39	52.80	52.22	51.66	51.12	50.60	50.09	3.0
3.5	56.33	55.62	54.95	54.30	53.67	53.07	52.49	51.92	51.38	50.85	3.5
4.0	57.42	56.67	55.95	55.26	54.60	53.97	53.36	52.77	52.20	51.65	4.0
4.5	58.62	57.80	57.02	56.29	55.58	54.91	54.27	53.65	53.06	52.48	4.5
5.0	59.96	59.05	58.20	57.40	56.64	55.93	55.24	54.59	53.96	53.36	5.0
5.5	61.52	60.47	59.51	58.63	57.80	57.03	56.29	55.59	54.93	54.29	5.5
6.0	63.46	62.16	61.03	60.02	59.09	58.23	57.43	56.68	55.96	55.28	6.0
6.5	66.46	64.39	62.89	61.65	60.57	59.59	58.69	57.86	57.08	56.35	6.5
7.0			65.65	63.78	62.37	61.18	60.14	59.19	58.32	57.52	7.0
7.5					64.93	63.21	61.88	60.74	59.74	58.82	7.5
8.0						66.91	64.29	62.70	61.43	60.34	8.0
8.5								65.92	63.71	62.22	8.5
9.0										65.14	9.0

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	M_1
σ_{max}	67.72	67.58	67.45	67.33	67.21	67.10	66.99	66.88	66.78	66.68	σ_{max}
δ_{max}	9.43	9.70	9.97	10.25	10.52	10.79	11.05	11.32	11.59	11.85	δ_{max}
δ											δ
.5	46.21	45.78	45.37	44.96	44.57	44.18	36.85	43.43	43.06	42.71	.5
1.0	46.84	46.41	45.99	45.57	45.17	44.77	44.39	44.01	43.63	43.27	1.0
1.5	47.50	47.05	46.62	46.20	45.79	45.38	44.98	44.59	44.22	43.84	1.5
2.0	48.17	47.72	47.27	46.84	46.42	46.00	45.60	45.20	44.82	44.44	2.0
2.5	48.87	48.40	47.95	47.50	47.07	46.64	46.23	45.82	45.42	45.04	2.5
3.0	49.59	49.11	48.64	48.18	47.74	47.30	46.88	46.46	46.06	45.66	3.0
3.5	50.34	49.84	49.36	48.88	48.43	47.98	47.54	47.12	46.70	46.30	3.5
4.0	51.12	50.60	50.10	49.61	49.14	48.68	48.23	47.79	47.36	46.95	4.0
4.5	51.93	51.39	50.87	50.37	49.88	49.40	48.94	48.49	48.05	47.62	4.5
5.0	52.78	52.22	51.68	51.16	50.65	50.16	49.68	49.21	48.76	48.32	5.0
5.5	53.68	53.09	52.52	51.98	51.45	50.94	50.44	49.96	49.49	49.04	5.5
6.0	54.63	54.01	53.41	52.84	52.29	51.75	51.24	50.74	50.25	49.78	6.0
6.5	55.65	54.99	54.36	53.75	53.17	52.61	52.07	51.55	51.05	50.56	6.5
7.0	56.76	56.05	55.37	54.73	54.11	53.52	52.95	52.41	51.88	51.37	7.0
7.5	57.98	57.20	56.46	55.77	55.11	54.48	53.88	53.31	52.75	52.22	7.5
8.0	59.37	58.48	57.67	56.91	56.19	55.52	54.87	54.26	53.68	53.11	8.0
8.5	61.01	59.96	59.03	58.17	57.38	56.64	55.95	55.29	54.66	54.06	8.5
9.0	63.19	61.79	60.63	59.62	58.72	57.89	57.12	56.40	55.72	55.08	9.0
9.5		64.50	62.72	61.40	60.29	59.32	58.44	57.63	56.88	56.18	9.5
10.0				63.95	62.31	61.05	59.98	59.04	58.19	57.41	10.0
10.5					66.36	63.48	61.94	60.73	59.71	58.80	10.5
11.0							65.44	63.07	61.61	60.46	11.0
11.5									64.82	62.72	11.5

M_1	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	M_1
σ_{max}	66.59	66.50	66.41	66.33	66.25	66.17	66.10	66.03	65.96	65.89	σ_{max}
δ_{max}	12.11	12.37	12.63	12.89	13.15	13.40	13.66	13.91	14.16	14.41	δ_{max}
δ											δ
.5	42.35	42.01	41.67	41.34	41.02	40.70	40.38	40.07	39.77	39.47	.5
1.0	42.91	42.56	42.22	41.88	41.55	41.22	40.90	40.59	40.28	39.98	1.0
1.5	43.48	43.12	42.77	42.43	42.09	41.76	41.44	41.12	40.81	40.50	1.5
2.0	44.06	43.70	43.34	42.99	42.65	42.32	41.98	41.66	41.34	41.03	2.0
2.5	44.66	44.29	43.92	43.57	43.22	42.88	42.54	42.21	41.89	41.57	2.5
3.0	45.27	44.89	44.52	44.16	43.80	43.45	43.11	42.77	42.44	42.12	3.0
3.5	45.90	45.51	45.13	44.76	44.40	44.04	43.69	43.35	43.01	42.68	3.5
4.0	46.54	46.14	45.76	45.38	45.00	44.64	44.29	43.94	43.59	43.26	4.0
4.5	47.21	46.80	46.40	46.01	45.63	45.26	44.89	44.54	44.19	43.85	4.5
5.0	47.89	47.47	47.06	46.66	46.27	45.89	45.52	45.16	44.80	44.45	5.0
5.5	48.60	48.16	47.74	47.33	46.93	46.54	46.16	45.79	45.42	45.07	5.5
6.0	49.33	48.88	48.45	48.03	47.62	47.21	46.82	46.44	46.07	45.70	6.0
6.5	50.08	49.62	49.18	48.74	48.32	47.91	47.50	47.11	46.73	46.35	6.5
7.0	50.87	50.40	49.93	49.48	49.04	48.62	48.20	47.80	47.41	47.02	7.0
7.5	51.70	51.20	50.72	50.26	49.80	49.36	48.93	48.51	48.11	47.71	7.5
8.0	52.57	52.05	51.55	51.06	50.59	50.13	49.69	49.26	48.84	48.43	8.0
8.5	53.49	52.94	52.41	51.90	51.41	50.93	50.47	50.02	49.59	49.17	8.5
9.0	54.47	53.89	53.33	52.79	52.27	51.77	51.29	50.83	50.37	49.94	9.0
9.5	55.52	54.90	54.30	53.73	53.18	52.66	52.15	51.67	51.19	50.74	9.5
10.0	56.68	55.99	55.35	54.74	54.16	53.60	53.06	52.55	52.05	51.58	10.0
10.5	57.97	57.21	56.50	55.83	55.20	54.60	54.03	53.49	52.96	52.46	10.5
11.0	59.47	58.58	57.78	57.03	56.34	55.69	55.07	54.49	53.93	53.40	11.0
11.5	61.33	60.22	59.26	58.40	57.61	56.89	56.21	55.57	54.97	54.39	11.5
12.0	64.36	62.42	61.10	60.02	59.08	58.24	57.47	56.77	56.10	55.48	12.0
12.5			64.00	62.18	60.90	59.85	58.93	58.11	57.36	56.67	12.5
13.0					63.72	61.98	60.74	59.71	58.82	58.02	13.0
13.5							63.51	61.83	60.62	59.61	13.5
14.0									63.37	61.73	14.0

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	M_1
σ_{max}	65.83	65.77	65.71	65.65	65.60	65.55	65.50	65.45	65.40	65.36	σ_{max}
δ_{max}	14.65	14.90	15.14	15.38	15.62	15.86	16.09	16.32	16.55	16.78	δ_{max}
δ											δ
1.0	39.68	39.39	39.10	38.82	38.54	38.27	38.00	37.73	37.47	37.22	1.0
2.0	40.72	40.42	40.13	39.84	39.55	39.27	38.99	38.72	38.45	38.19	2.0
3.0	41.80	41.49	41.19	40.89	40.59	40.30	40.02	39.74	39.46	39.19	3.0
4.0	42.93	42.61	42.29	41.98	41.68	41.38	41.08	40.79	40.51	40.23	4.0
5.0	44.11	43.77	43.44	43.12	42.81	42.50	42.19	41.89	41.60	41.31	5.0
6.0	45.34	44.99	44.65	44.32	43.99	43.67	43.35	43.04	42.74	42.44	6.0
7.0	46.65	46.28	45.92	45.57	45.23	44.89	44.56	44.24	43.92	43.61	7.0
8.0	48.03	47.64	47.26	46.89	46.53	46.18	45.83	45.50	45.17	44.84	8.0
9.0	49.51	49.10	48.69	48.30	47.92	47.55	47.18	46.83	46.48	46.14	9.0
10.0	51.12	50.67	50.23	49.81	49.41	49.01	48.62	48.24	47.88	47.52	10.0
11.0	52.88	52.39	51.92	51.46	51.01	50.58	50.17	49.76	49.37	48.98	11.0
12.0	54.89	54.33	53.79	53.28	52.78	52.31	51.85	51.41	50.98	50.57	12.0
13.0	57.28	56.60	55.96	55.36	54.80	54.26	53.74	53.24	52.77	52.31	13.0
14.0	60.54	59.55	58.69	57.91	57.20	56.54	55.93	55.34	54.79	54.27	14.0
15.0			63.31	61.66	60.49	59.52	58.67	57.92	57.23	56.58	15.0
16.0							63.58	61.80	60.60	59.63	16.0
M_1	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	M_1
σ_{max}	65.32	65.28	65.24	65.20	65.17	65.13	65.10	65.07	65.04	65.01	σ_{max}
δ_{max}	17.01	17.24	17.46	17.68	17.90	18.12	18.34	18.55	18.76	18.97	δ_{max}
δ											δ
1.0	36.96	36.71	36.47	36.23	35.99	35.75	35.52	35.29	35.07	34.85	1.0
2.0	37.93	37.67	37.42	37.17	36.93	36.69	36.45	36.22	35.99	35.76	2.0
3.0	38.92	38.66	38.40	38.15	37.90	37.65	37.41	37.17	36.93	36.70	3.0
4.0	39.96	39.69	39.42	39.16	38.90	38.65	38.40	38.16	37.91	37.68	4.0
5.0	41.03	40.75	40.48	40.21	39.94	39.68	39.43	39.17	38.93	38.68	5.0
6.0	42.14	41.86	41.57	41.30	41.02	40.76	40.49	40.23	39.98	39.73	6.0
7.0	43.31	43.01	42.72	42.43	42.15	41.87	41.60	41.33	41.07	40.81	7.0
8.0	44.53	44.22	43.91	43.61	43.32	43.03	42.75	42.47	42.20	41.94	8.0
9.0	45.81	45.49	45.17	44.86	44.55	44.25	43.96	43.67	43.39	43.11	9.0
10.0	47.17	46.82	46.49	46.16	45.84	45.53	45.22	44.92	44.63	44.34	10.0
11.0	48.61	48.25	47.89	47.55	47.21	46.88	46.56	46.24	45.93	45.63	11.0
12.0	50.17	49.78	49.40	49.03	48.67	48.32	47.98	47.64	47.32	47.00	12.0
13.0	51.87	51.44	51.03	50.63	50.24	49.86	49.50	49.14	48.79	48.45	13.0
14.0	53.77	53.29	52.83	52.39	51.96	51.55	51.15	50.76	50.38	50.01	14.0
15.0	55.98	55.42	54.88	54.37	53.89	53.42	52.97	52.54	52.13	51.73	15.0
16.0	58.79	58.04	57.36	56.73	56.14	55.59	55.06	54.57	54.09	53.63	16.0
17.0	64.63	62.18	60.90	59.90	59.05	58.30	57.61	56.99	56.40	55.86	17.0
18.0						62.94	61.42	60.34	59.46	58.69	18.0
M_1	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89	M_1
σ_{max}	64.99	64.96	64.94	64.91	64.89	64.87	64.85	64.83	64.82	64.80	σ_{max}
δ_{max}	19.18	19.39	19.59	19.80	20.00	20.20	20.40	20.59	20.79	20.98	δ_{max}
δ											δ
1.0	34.63	34.41	34.20	33.99	33.78	33.58	33.38	33.18	32.98	32.79	1.0
2.0	35.54	35.32	35.10	34.89	34.68	34.47	34.26	34.06	33.86	33.66	2.0
3.0	36.47	36.25	36.03	35.81	35.59	35.38	35.17	34.96	34.76	34.56	3.0
4.0	37.44	37.21	36.99	36.76	36.54	36.32	36.11	35.90	35.69	35.48	4.0
5.0	38.44	38.21	37.97	37.74	37.52	37.30	37.08	36.86	36.65	36.44	5.0
6.0	39.48	39.24	39.00	38.76	38.53	38.30	38.08	37.86	37.64	37.42	6.0
7.0	40.56	40.31	40.06	39.82	39.58	39.34	39.11	38.89	38.66	38.44	7.0
8.0	41.67	41.41	41.16	40.91	40.67	40.42	40.19	39.95	39.72	39.50	8.0
9.0	42.84	42.57	42.31	42.05	41.79	41.55	41.30	41.06	40.82	40.59	9.0
10.0	44.06	43.78	43.51	43.24	42.98	42.72	42.46	42.21	41.97	41.73	10.0
11.0	45.34	45.05	44.76	44.48	44.21	43.94	43.68	43.42	43.16	42.91	11.0
12.0	46.69	46.38	46.08	45.79	45.50	45.22	44.95	44.68	44.41	44.15	12.0
13.0	48.12	47.80	47.48	47.17	46.87	46.58	46.29	46.00	45.73	45.46	13.0
14.0	49.66	49.31	48.98	48.65	48.33	48.01	47.71	47.41	47.12	46.83	14.0
15.0	51.34	50.96	50.59	50.24	49.89	49.56	49.23	48.91	48.59	48.29	15.0
16.0	53.20	52.78	52.37	51.98	51.60	51.23	50.88	50.53	50.19	49.86	16.0
17.0	55.34	54.85	54.38	53.93	53.50	53.09	52.69	52.31	51.94	51.58	17.0
18.0	57.99	57.36	56.78	56.23	55.71	55.23	54.76	54.32	53.90	53.49	18.0
19.0	62.31	61.03	60.05	59.24	58.52	57.87	57.27	56.71	56.19	55.71	19.0
20.0						62.10	60.91	59.99	59.21	58.52	20.0

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99	M_1
σ_{max}	64.78	64.77	64.75	64.74	64.73	64.72	64.71	64.70	64.69	64.68	σ_{max}
δ_{max}	21.17	21.36	21.54	21.73	21.91	22.09	22.27	22.45	22.63	22.80	δ_{max}
δ											δ
1.0	32.60	32.41	32.22	32.04	31.86	31.68	31.50	31.32	31.15	30.98	1.0
2.0	33.46	33.27	33.08	32.89	32.71	32.53	32.34	32.17	31.99	31.82	2.0
3.0	34.36	34.16	33.97	33.78	33.59	33.40	33.22	33.04	32.86	32.68	3.0
4.0	35.28	35.08	34.88	34.69	34.49	34.30	34.12	33.93	33.75	33.57	4.0
5.0	36.23	36.02	35.82	35.62	35.43	35.23	35.04	34.85	34.67	34.48	5.0
6.0	37.21	37.00	36.79	36.59	36.39	36.19	36.00	35.80	35.61	35.43	6.0
7.0	38.22	38.01	37.80	37.59	37.38	37.18	36.98	36.78	36.59	36.40	7.0
8.0	39.27	39.05	38.84	38.62	38.41	38.20	38.00	37.80	37.60	37.40	8.0
9.0	40.36	40.13	39.91	39.69	39.47	39.26	39.05	38.85	38.64	38.44	9.0
10.0	41.49	41.26	41.03	40.80	40.58	40.36	40.14	39.93	39.72	39.51	10.0
11.0	42.67	42.43	42.19	41.96	41.73	41.50	41.28	41.06	40.84	40.63	11.0
12.0	43.90	43.65	43.40	43.16	42.92	42.69	42.46	42.23	42.01	41.79	12.0
13.0	45.19	44.93	44.67	44.42	44.17	43.93	43.69	43.46	43.22	43.00	13.0
14.0	46.55	46.27	46.01	45.74	45.48	45.23	44.98	44.74	44.50	44.26	14.0
15.0	47.99	47.70	47.42	47.14	46.87	46.60	46.34	46.08	45.83	45.58	15.0
16.0	49.54	49.23	48.93	48.63	48.34	48.06	47.78	47.51	47.25	46.99	16.0
17.0	51.23	50.89	50.56	50.24	49.93	49.62	49.32	49.03	48.75	48.47	17.0
18.0	53.10	52.72	52.35	52.00	51.65	51.32	51.00	50.68	50.37	50.08	18.0
19.0	55.24	54.80	54.38	53.97	53.58	53.21	52.84	52.49	52.15	51.83	19.0
20.0	57.90	57.33	56.80	56.30	55.83	55.38	54.96	54.55	54.16	53.78	20.0
21.0	62.25	61.05	60.14	59.38	58.70	58.10	57.54	57.02	56.54	56.08	21.0
22.0						62.86	61.49	60.53	59.74	59.06	22.0
M_1	2.00	2.02	2.04	2.06	2.08	2.10	2.15	2.20	2.25	2.30	M_1
σ_{max}	64.67	64.65	64.64	64.63	64.63	64.62	64.62	64.62	64.63	64.65	σ_{max}
δ_{max}	22.97	23.31	23.65	23.98	24.30	24.61	25.38	26.10	26.79	27.45	δ_{max}
δ											δ
1.0	30.81	30.48	30.15	29.84	29.53	29.22	28.49	27.80	27.14	26.52	1.0
2.0	31.64	31.31	30.98	30.65	30.34	30.03	29.29	28.59	27.93	27.29	2.0
3.0	32.50	32.16	31.83	31.50	31.18	30.87	30.11	29.40	28.73	28.09	3.0
4.0	33.39	33.04	32.70	32.37	32.04	31.72	30.96	30.24	29.55	28.91	4.0
5.0	34.30	33.94	33.60	33.26	32.93	32.60	31.83	31.10	30.40	29.75	5.0
6.0	35.24	34.88	34.52	34.18	33.84	33.51	32.72	31.98	31.28	30.61	6.0
7.0	36.21	35.84	35.48	35.13	34.78	34.45	33.65	32.89	32.18	31.50	7.0
8.0	37.21	36.83	36.46	36.10	35.75	35.41	34.60	33.83	33.10	32.42	8.0
9.0	38.24	37.86	37.48	37.11	36.75	36.41	35.57	34.79	34.05	33.36	9.0
10.0	39.31	38.91	38.53	38.15	37.79	37.43	36.58	35.78	35.03	34.33	10.0
11.0	40.42	40.01	39.62	39.23	38.86	38.49	37.62	36.81	36.05	35.32	11.0
12.0	41.58	41.15	40.75	40.35	39.97	39.59	38.70	37.87	37.09	36.35	12.0
13.0	42.77	42.34	41.92	41.51	41.11	40.73	39.82	38.96	38.16	37.41	13.0
14.0	44.03	43.58	43.14	42.72	42.31	41.91	40.97	40.09	39.28	38.51	14.0
15.0	45.34	44.87	44.42	43.98	43.55	43.14	42.17	41.27	40.43	39.64	15.0
16.0	46.73	46.23	45.76	45.30	44.86	44.43	43.42	42.49	41.62	40.81	16.0
17.0	48.20	47.68	47.18	46.69	46.23	45.78	44.73	43.76	42.86	42.03	17.0
18.0	49.79	49.22	48.69	48.17	47.68	47.21	46.10	45.09	44.16	43.30	18.0
19.0	51.51	50.89	50.31	49.76	49.23	48.73	47.56	46.49	45.52	44.62	19.0
20.0	53.42	52.74	52.09	51.49	50.91	50.36	49.11	47.98	46.95	46.01	20.0
21.0	55.64	54.83	54.09	53.40	52.76	52.15	50.78	49.56	48.47	47.47	21.0
22.0	58.46	57.39	56.46	55.63	54.87	54.17	52.62	51.28	50.09	49.03	22.0
23.0		61.20	59.63	58.43	57.43	56.55	54.70	53.18	51.86	50.70	23.0
24.0					61.28	59.77	57.22	55.36	53.83	52.53	24.0
25.0							60.86	58.06	56.14	54.61	25.0
26.0								62.69	59.12	57.08	26.0
27.0									60.55	58.55	27.0

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75	2.80	M_1
σ_{max}	64.68	64.71	64.74	64.78	64.82	64.87	64.91	64.96	65.00	65.05	σ_{max}
δ_{max}	28.08	28.68	29.25	29.80	30.32	30.81	31.29	31.74	32.17	32.59	δ_{max}
δ											δ
1.0	25.93	25.36	24.82	24.30	23.81	23.33	22.88	22.44	22.03	21.62	1.0
2.0	26.69	26.12	25.57	25.05	24.55	24.07	23.61	23.17	22.75	22.34	2.0
3.0	27.48	26.90	26.35	25.82	25.31	24.83	24.37	23.92	23.50	23.09	3.0
4.0	28.29	27.70	27.14	26.61	26.10	25.61	25.14	24.70	24.26	23.85	4.0
5.0	29.12	28.53	27.96	27.42	26.91	26.41	25.94	25.49	25.06	24.64	5.0
6.0	29.98	29.38	28.80	28.26	27.74	27.24	26.77	26.31	25.87	25.45	6.0
7.0	30.86	30.25	29.67	29.12	28.59	28.09	27.61	27.15	26.71	26.29	7.0
8.0	31.77	31.15	30.56	30.01	29.47	28.97	28.48	28.02	27.57	27.15	8.0
9.0	32.70	32.07	31.48	30.91	30.38	29.87	29.38	28.91	28.46	28.03	9.0
10.0	33.66	33.02	32.42	31.85	31.31	30.79	30.29	29.82	29.37	28.94	10.0
11.0	34.64	34.00	33.39	32.81	32.26	31.74	31.24	30.76	30.31	29.87	11.0
12.0	35.66	35.01	34.39	33.80	33.24	32.71	32.21	31.73	31.27	30.83	12.0
13.0	36.71	36.04	35.41	34.82	34.25	33.72	33.21	32.72	32.26	31.81	13.0
14.0	37.79	37.11	36.47	35.87	35.29	34.75	34.23	33.74	33.27	32.82	14.0
15.0	38.91	38.21	37.56	36.94	36.36	35.81	35.28	34.79	34.31	33.86	15.0
16.0	40.06	39.35	38.68	38.06	37.46	36.90	36.37	35.86	35.38	34.92	16.0
17.0	41.25	40.53	39.85	39.20	38.60	38.02	37.48	36.97	36.48	36.02	17.0
18.0	42.49	41.75	41.05	40.39	39.77	39.18	38.63	38.11	37.61	37.14	18.0
19.0	43.79	43.02	42.29	41.62	40.98	40.38	39.82	39.28	38.78	38.30	19.0
20.0	45.14	44.34	43.59	42.89	42.24	41.62	41.04	40.50	39.98	39.49	20.0
21.0	46.56	45.72	44.94	44.22	43.54	42.91	42.31	41.75	41.22	40.72	21.0
22.0	48.06	47.17	46.36	45.60	44.90	44.24	43.63	43.05	42.50	41.99	22.0
23.0	49.66	48.72	47.85	47.06	46.32	45.64	45.00	44.40	43.84	43.31	23.0
24.0	51.39	50.37	49.44	48.60	47.82	47.10	46.43	45.81	45.22	44.68	24.0
25.0	53.30	52.17	51.16	50.25	49.42	48.65	47.94	47.29	46.68	46.10	25.0
26.0	55.50	54.18	53.05	52.03	51.13	50.30	49.55	48.85	48.21	47.60	26.0
27.0	58.22	56.54	55.18	54.03	53.01	52.10	51.27	50.52	49.83	49.19	27.0
28.0	62.97	59.65	57.78	56.33	55.13	54.09	53.16	52.33	51.58	50.88	28.0
29.0			61.73	59.31	57.69	56.39	55.30	54.35	53.50	52.73	29.0
30.0					61.45	59.35	57.88	56.69	55.67	54.79	30.0
31.0							61.71	59.72	58.33	57.20	31.0
32.0									62.55	60.43	32.0

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	2.85	2.90	2.95	3.00	3.25	3.50	3.75	4.00	4.25	4.50	M_1
σ_{max}	65.10	65.15	65.19	65.24	65.47	65.69	65.88	66.06	66.21	66.35	σ_{max}
δ_{max}	32.98	33.36	33.73	34.07	35.61	36.87	37.91	38.77	39.51	40.13	δ_{max}
δ											δ
1.0	21.24	20.86	20.50	20.16	18.59	17.27	16.12	15.13	14.26	13.49	1.0
2.0	21.95	21.58	21.22	20.87	19.29	17.96	16.81	15.81	14.94	14.16	2.0
3.0	22.69	22.32	21.95	21.60	20.02	18.67	17.52	16.52	15.64	14.87	3.0
4.0	23.45	23.07	22.71	22.35	20.76	19.41	18.26	17.26	16.38	15.60	4.0
5.0	24.24	23.86	23.49	23.13	21.53	20.18	19.02	18.02	17.14	16.37	5.0
6.0	25.05	24.67	24.29	23.93	22.33	20.97	19.81	18.81	17.94	17.17	6.0
7.0	25.89	25.50	25.12	24.76	23.14	21.79	20.63	19.63	18.75	17.99	7.0
8.0	26.74	26.35	25.97	25.61	23.99	22.63	21.47	20.47	19.60	18.84	8.0
9.0	27.62	27.23	26.85	26.48	24.86	23.49	22.34	21.34	20.48	19.72	9.0
10.0	28.53	28.13	27.75	27.38	25.75	24.38	23.23	22.23	21.37	20.62	10.0
11.0	29.45	29.05	28.67	28.30	26.66	25.30	24.14	23.15	22.30	21.55	11.0
12.0	30.41	30.01	29.62	29.25	27.60	26.23	25.08	24.09	23.24	22.50	12.0
13.0	31.39	30.98	30.59	30.22	28.57	27.20	26.04	25.06	24.22	23.48	13.0
14.0	32.39	31.99	31.59	31.22	29.56	28.18	27.03	26.05	25.21	24.48	14.0
15.0	33.43	33.01	32.62	32.24	30.57	29.19	28.04	27.06	26.23	25.50	15.0
16.0	34.49	34.07	33.67	33.29	31.61	30.22	29.07	28.10	27.27	26.55	16.0
17.0	35.57	35.15	34.75	34.36	32.67	31.28	30.13	29.16	28.33	27.61	17.0
18.0	36.69	36.26	35.86	35.47	33.76	32.36	31.21	30.24	29.41	28.70	18.0
19.0	37.84	37.41	36.99	36.60	34.87	33.47	32.31	31.34	30.51	29.81	19.0
20.0	39.03	38.58	38.16	37.76	36.01	34.60	33.44	32.46	31.64	30.93	20.0
21.0	40.25	39.79	39.37	38.96	37.19	35.76	34.59	33.61	32.79	32.08	21.0
22.0	41.50	41.04	40.61	40.19	38.39	36.95	35.77	34.79	33.96	33.26	22.0
23.0	42.81	42.33	41.89	41.46	39.63	38.16	36.97	35.98	35.15	34.45	23.0
24.0	44.16	43.67	43.21	42.78	40.90	39.41	38.20	37.21	36.37	35.67	24.0
25.0	45.57	45.06	44.59	44.14	42.21	40.69	39.47	38.46	37.62	36.91	25.0
26.0	47.04	46.51	46.02	45.55	43.56	42.01	40.76	39.74	38.89	38.17	26.0
27.0	48.59	48.04	47.52	47.03	44.97	43.37	42.09	41.05	40.19	39.47	27.0
28.0	50.25	49.65	49.10	48.59	46.43	44.77	43.46	42.40	41.52	40.79	28.0
29.0	52.03	51.38	50.79	50.24	47.95	46.23	44.88	43.79	42.89	42.15	29.0
30.0	53.99	53.27	52.62	52.01	49.56	47.75	46.35	45.22	44.30	43.54	30.0
31.0	56.24	55.40	54.64	53.96	51.28	49.35	47.88	46.71	45.76	44.97	31.0
32.0	59.04	57.93	57.00	56.18	53.14	51.05	49.48	48.26	47.27	46.45	32.0
33.0		61.57	60.05	58.91	55.21	52.88	51.19	49.88	48.84	47.99	33.0
34.0				63.67	57.62	54.89	53.01	51.61	50.50	49.60	34.0
35.0					60.81	57.19	55.02	53.46	52.26	51.30	35.0
36.0						60.09	57.31	55.50	54.15	53.10	36.0
37.0							60.17	57.84	56.26	55.07	37.0
38.0								60.83	58.72	57.29	38.0
39.0									62.06	59.98	39.0
40.0										64.34	40.0

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	4.75	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	M_1
σ_{max}	66.48	66.58	66.77	66.91	67.03	67.13	67.21	67.28	67.33	67.38	σ_{max}
δ_{max}	40.66	41.12	41.86	42.44	42.89	43.25	43.55	43.79	43.99	44.16	δ_{max}
δ											δ
1.0	12.80	12.18	11.11	10.23	9.49	8.85	8.30	7.82	7.39	7.02	1.0
2.0	13.47	12.85	11.79	10.91	10.16	9.53	8.98	8.50	8.08	7.71	2.0
3.0	14.18	13.56	12.50	11.62	10.88	10.25	9.71	9.24	8.82	8.46	3.0
4.0	14.92	14.30	13.24	12.37	11.64	11.02	10.48	10.02	9.61	9.25	4.0
5.0	15.69	15.07	14.02	13.16	12.44	11.82	11.30	10.85	10.45	10.10	5.0
6.0	16.48	15.88	14.84	13.98	13.27	12.67	12.16	11.71	11.33	10.99	6.0
7.0	17.31	16.71	15.68	14.84	14.14	13.55	13.05	12.62	12.25	11.92	7.0
8.0	18.17	17.57	16.55	15.73	15.04	14.46	13.98	13.56	13.20	12.88	8.0
9.0	19.05	18.46	17.46	16.64	15.97	15.41	14.93	14.53	14.18	13.88	9.0
10.0	19.96	19.38	18.39	17.59	16.93	16.38	15.92	15.53	15.19	14.90	10.0
11.0	20.90	20.32	19.34	18.56	17.91	17.38	16.93	16.55	16.23	15.95	11.0
12.0	21.85	21.28	20.32	19.55	18.92	18.40	17.97	17.60	17.28	17.01	12.0
13.0	22.84	22.27	21.33	20.57	19.96	19.45	19.02	18.67	18.36	18.10	13.0
14.0	23.85	23.29	22.35	21.61	21.01	20.51	20.10	19.76	19.46	19.21	14.0
15.0	24.87	24.32	23.40	22.67	22.08	21.60	21.20	20.86	20.58	20.33	15.0
16.0	25.92	25.38	24.47	23.75	23.17	22.70	22.31	21.98	21.71	21.47	16.0
17.0	26.99	26.45	25.56	24.85	24.28	23.82	23.44	23.12	22.85	22.62	17.0
18.0	28.08	27.55	26.66	25.97	25.41	24.96	24.58	24.27	24.01	23.79	18.0
19.0	29.20	28.66	27.79	27.10	26.55	26.11	25.74	25.44	25.18	24.96	19.0
20.0	30.33	29.80	28.93	28.25	27.71	27.28	26.92	26.62	26.37	26.15	20.0
21.0	31.48	30.95	30.09	29.42	28.89	28.46	28.10	27.81	27.57	27.36	21.0
22.0	32.65	32.13	31.28	30.61	30.08	29.66	29.31	29.02	28.78	28.58	22.0
23.0	33.85	33.33	32.47	31.81	31.29	30.87	30.53	30.24	30.01	29.80	23.0
24.0	35.06	34.54	33.69	33.04	32.52	32.10	31.76	31.48	31.24	31.05	24.0
25.0	36.30	35.78	34.93	34.28	33.76	33.35	33.01	32.73	32.50	32.30	25.0
26.0	37.56	37.04	36.19	35.54	35.02	34.61	34.27	34.00	33.77	33.57	26.0
27.0	38.85	38.32	37.47	36.82	36.30	35.89	35.56	35.28	35.05	34.86	27.0
28.0	40.17	39.63	38.77	38.12	37.60	37.19	36.86	36.58	36.35	36.16	28.0
29.0	41.51	40.97	40.10	39.44	38.92	38.51	38.18	37.90	37.67	37.48	29.0
30.0	42.89	42.34	41.46	40.79	40.27	39.85	39.52	39.24	39.01	38.82	30.0
31.0	44.31	43.75	42.85	42.17	41.64	41.22	40.88	40.60	40.37	40.18	31.0
32.0	45.77	45.20	44.28	43.58	43.05	42.62	42.28	41.99	41.76	41.57	32.0
33.0	47.28	46.69	45.74	45.03	44.48	44.05	43.70	43.41	43.18	42.98	33.0
34.0	48.86	48.24	47.26	46.52	45.96	45.51	45.16	44.86	44.62	44.42	34.0
35.0	50.51	49.86	48.83	48.06	47.48	47.02	46.65	46.35	46.11	45.90	35.0
36.0	52.26	51.56	50.47	49.67	49.06	48.58	48.20	47.89	47.63	47.42	36.0
37.0	54.14	53.37	52.21	51.35	50.71	50.21	49.81	49.48	49.22	49.00	37.0
38.0	56.21	55.35	54.06	53.14	52.44	51.91	51.49	51.15	50.86	50.63	38.0
39.0	58.60	57.57	56.09	55.06	54.30	53.72	53.26	52.90	52.60	52.35	39.0
40.0	61.71	60.26	58.40	57.19	56.32	55.67	55.17	54.77	54.44	54.17	40.0
41.0		64.66	61.28	59.68	58.62	57.86	57.27	56.82	56.45	56.15	41.0
42.0				63.10	61.48	60.45	59.71	59.15	58.71	58.36	42.0
43.0						64.28	62.95	62.10	61.48	61.00	43.0
44.0										65.14	44.0

Tabella A.4 - Angolo σ dell'urto obliquo - Soluzione debole ($\gamma = 1.4$)

M_1	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	M_1
σ_{max}	67.42	67.45	67.48	67.51	67.53	67.55	67.57	67.59	67.60	67.62	σ_{max}
δ_{max}	44.31	44.43	44.54	44.63	44.71	44.78	44.84	44.90	44.95	44.99	δ_{max}
δ											δ
1.0	6.68	6.38	6.10	5.86	5.63	5.42	5.23	5.06	4.89	4.74	1.0
2.0	7.38	7.08	6.81	6.56	6.34	6.14	5.95	5.78	5.62	5.48	2.0
3.0	8.13	7.84	7.57	7.34	7.12	6.92	6.74	6.58	6.43	6.29	3.0
4.0	8.93	8.65	8.40	8.17	7.96	7.77	7.60	7.44	7.30	7.17	4.0
5.0	9.79	9.52	9.27	9.05	8.86	8.68	8.51	8.36	8.23	8.10	5.0
6.0	10.69	10.43	10.20	9.98	9.80	9.63	9.47	9.33	9.20	9.09	6.0
7.0	11.63	11.38	11.16	10.96	10.78	10.62	10.47	10.34	10.22	10.11	7.0
8.0	12.61	12.37	12.15	11.96	11.79	11.64	11.50	11.38	11.27	11.16	8.0
9.0	13.62	13.38	13.18	13.00	12.84	12.69	12.56	12.45	12.34	12.24	9.0
10.0	14.65	14.43	14.23	14.06	13.91	13.77	13.65	13.54	13.44	13.35	10.0
11.0	15.70	15.49	15.31	15.14	14.99	14.86	14.75	14.64	14.55	14.47	11.0
12.0	16.78	16.58	16.40	16.24	16.10	15.98	15.87	15.77	15.68	15.60	12.0
13.0	17.88	17.68	17.51	17.36	17.23	17.11	17.01	16.91	16.83	16.75	13.0
14.0	18.99	18.81	18.64	18.50	18.37	18.26	18.16	18.07	17.99	17.91	14.0
15.0	20.12	19.94	19.78	19.64	19.52	19.41	19.32	19.23	19.15	19.09	15.0
16.0	21.27	21.09	20.94	20.81	20.69	20.58	20.49	20.41	20.33	20.27	16.0
17.0	22.42	22.25	22.11	21.98	21.86	21.76	21.68	21.60	21.52	21.46	17.0
18.0	23.60	23.43	23.29	23.16	23.05	22.96	22.87	22.79	22.72	22.66	18.0
19.0	24.78	24.62	24.48	24.36	24.25	24.16	24.07	24.00	23.93	23.87	19.0
20.0	25.97	25.82	25.68	25.56	25.46	25.37	25.29	25.21	25.15	25.09	20.0
21.0	27.18	27.03	26.89	26.78	26.68	26.59	26.51	26.44	26.38	26.32	21.0
22.0	28.40	28.25	28.12	28.01	27.91	27.82	27.75	27.68	27.62	27.56	22.0
23.0	29.63	29.49	29.36	29.25	29.15	29.07	28.99	28.92	28.86	28.81	23.0
24.0	30.88	30.73	30.61	30.50	30.40	30.32	30.25	30.18	30.12	30.07	24.0
25.0	32.14	31.99	31.87	31.76	31.67	31.59	31.51	31.45	31.39	31.34	25.0
26.0	33.41	33.27	33.14	33.04	32.95	32.86	32.79	32.73	32.67	32.62	26.0
27.0	34.69	34.55	34.43	34.33	34.24	34.15	34.08	34.02	33.96	33.91	27.0
28.0	36.00	35.86	35.74	35.63	35.54	35.46	35.39	35.33	35.27	35.22	28.0
29.0	37.32	37.18	37.06	36.95	36.86	36.78	36.71	36.65	36.59	36.54	29.0
30.0	38.66	38.52	38.40	38.29	38.20	38.12	38.05	37.99	37.93	37.88	30.0
31.0	40.02	39.88	39.76	39.65	39.56	39.48	39.41	39.35	39.29	39.24	31.0
32.0	41.40	41.26	41.14	41.03	40.94	40.86	40.79	40.72	40.67	40.62	32.0
33.0	42.81	42.67	42.54	42.44	42.34	42.26	42.19	42.13	42.07	42.02	33.0
34.0	44.25	44.10	43.98	43.87	43.78	43.69	43.62	43.56	43.50	43.45	34.0
35.0	45.72	45.58	45.45	45.34	45.24	45.16	45.08	45.02	44.96	44.90	35.0
36.0	47.24	47.09	46.96	46.84	46.74	46.66	46.58	46.51	46.45	46.40	36.0
37.0	48.81	48.65	48.51	48.40	48.29	48.20	48.13	48.06	47.99	47.94	37.0
38.0	50.44	50.27	50.13	50.00	49.90	49.80	49.72	49.65	49.58	49.53	38.0
39.0	52.14	51.97	51.81	51.68	51.57	51.47	51.39	51.31	51.24	51.18	39.0
40.0	53.95	53.76	53.60	53.46	53.34	53.23	53.14	53.06	52.98	52.92	40.0
41.0	55.90	55.69	55.51	55.35	55.22	55.11	55.00	54.92	54.84	54.77	41.0
42.0	58.06	57.82	57.61	57.44	57.29	57.16	57.04	56.94	56.85	56.77	42.0
43.0	60.62	60.31	60.05	59.84	59.65	59.49	59.36	59.23	59.13	59.03	43.0
44.0	64.31	63.74	63.30	62.96	62.68	62.44	62.25	62.07	61.93	61.80	44.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	M_1
σ_{max}		85.36	83.49	82.08	80.93	79.94	79.06	78.27	77.56	76.90	σ_{max}
δ_{max}		.05	.14	.26	.40	.56	.73	.91	1.10	1.30	δ_{max}
δ											δ
.5						82.75	84.58	85.53	86.17	86.63	.5
1.0									80.86	82.57	1.0
M_1	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	M_1
σ_{max}	76.30	75.73	75.21	74.72	74.26	73.82	73.41	73.02	72.66	72.31	σ_{max}
δ_{max}	1.52	1.73	1.96	2.19	2.43	2.67	2.92	3.17	3.42	3.68	δ_{max}
δ											δ
.5	86.99	87.28	87.52	87.71	87.88	88.03	88.16	88.27	88.37	88.45	.5
1.0	83.58	84.30	84.85	85.30	85.67	85.98	86.26	86.49	86.69	86.88	1.0
1.5	77.47	80.37	81.65	82.54	83.22	83.77	84.22	84.61	84.94	85.24	1.5
2.0				78.69	80.18	81.17	81.93	82.54	83.05	83.48	2.0
2.5						77.43	79.03	80.09	80.89	81.54	2.5
3.0								76.50	78.13	79.21	3.0
										75.81	3.5
M_1	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	M_1
σ_{max}	71.98	71.66	71.36	71.07	70.80	70.54	70.29	70.05	69.82	69.60	σ_{max}
δ_{max}	3.94	4.21	4.47	4.74	5.01	5.29	5.56	5.83	6.11	6.39	δ_{max}
δ											δ
.5	88.53	88.60	88.67	88.73	88.78	88.83	88.88	88.92	88.96	89.00	.5
1.0	87.04	87.19	87.32	87.44	87.55	87.65	87.75	87.83	87.91	87.99	1.0
1.5	85.50	85.73	85.94	86.13	86.30	86.45	86.59	86.73	86.85	86.96	1.5
2.0	83.86	84.19	84.49	84.75	84.99	85.21	85.41	85.59	85.76	85.91	2.0
2.5	82.08	82.54	82.95	83.31	83.63	83.92	84.18	84.42	84.64	84.84	2.5
3.0	80.03	80.70	81.26	81.74	82.17	82.54	82.89	83.19	83.47	83.72	3.0
3.5	77.42	78.49	79.32	79.99	80.56	81.06	81.49	81.88	82.23	82.55	3.5
4.0		75.31	76.84	77.89	78.71	79.39	79.96	80.46	80.90	81.29	4.0
4.5				74.93	76.38	77.39	78.20	78.86	79.43	79.93	4.5
5.0					71.71	74.64	75.99	76.97	77.75	78.40	5.0
5.5							72.13	74.40	75.66	76.60	5.5
6.0									72.28	74.19	6.0
M_1	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	M_1
σ_{max}	69.40	69.19	69.00	68.82	68.64	68.47	68.31	68.15	68.00	67.85	σ_{max}
δ_{max}	6.66	6.94	7.22	7.49	7.77	8.05	8.33	8.60	8.88	9.15	δ_{max}
δ											δ
.5	89.03	89.06	89.09	89.12	89.15	89.17	89.19	89.22	89.24	89.26	.5
1.0	88.05	88.12	88.18	88.23	88.29	88.34	88.38	88.43	88.47	88.51	1.0
1.5	87.06	87.16	87.25	87.34	87.42	87.50	87.57	87.63	87.70	87.76	1.5
2.0	86.06	86.19	86.32	86.43	86.54	86.64	86.74	86.83	86.92	87.00	2.0
2.5	85.02	85.20	85.36	85.51	85.65	85.78	85.90	86.02	86.13	86.23	2.5
3.0	83.95	84.17	84.37	84.55	84.73	84.89	85.04	85.18	85.32	85.44	3.0
3.5	82.83	83.10	83.34	83.57	83.78	83.98	84.16	84.33	84.49	84.64	3.5
4.0	81.65	81.97	82.27	82.54	82.79	83.03	83.25	83.45	83.64	83.82	4.0
4.5	80.37	80.77	81.13	81.46	81.76	82.04	82.30	82.54	82.76	82.97	4.5
5.0	78.97	79.46	79.90	80.30	80.66	80.99	81.30	81.58	81.84	82.08	5.0
5.5	77.35	78.00	78.55	79.04	79.48	79.88	80.24	80.57	80.87	81.16	5.5
6.0	75.37	76.27	77.01	77.63	78.18	78.66	79.09	79.49	79.85	80.18	6.0
6.5	72.34	74.01	75.12	75.98	76.69	77.30	77.84	78.31	78.74	79.13	6.5
7.0			72.35	73.85	74.89	75.72	76.40	77.00	77.52	77.99	7.0
7.5					72.34	73.70	74.68	75.47	76.14	76.72	7.5
8.0						70.02	72.30	73.56	74.49	75.25	8.0
8.5								70.37	72.25	73.42	8.5
9.0										70.55	9.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	M_1
σ_{max}	67.72	67.58	67.45	67.33	67.21	67.10	66.99	66.88	66.78	66.68	σ_{max}
δ_{max}	9.43	9.70	9.97	10.25	10.52	10.79	11.05	11.32	11.59	11.85	δ_{max}
δ											δ
.5	89.27	89.29	89.31	89.33	89.34	89.36	89.37	89.38	89.40	89.41	.5
1.0	88.55	88.58	88.62	88.65	88.68	88.71	88.74	88.77	88.79	88.82	1.0
1.5	87.82	87.87	87.92	87.97	88.02	88.06	88.10	88.14	88.18	88.22	1.5
2.0	87.08	87.15	87.22	87.28	87.35	87.41	87.46	87.52	87.57	87.62	2.0
2.5	86.33	86.42	86.51	86.59	86.67	86.75	86.82	86.89	86.95	87.02	2.5
3.0	85.56	85.68	85.78	85.89	85.99	86.08	86.17	86.25	86.33	86.40	3.0
3.5	84.79	84.92	85.05	85.17	85.29	85.40	85.50	85.60	85.69	85.78	3.5
4.0	83.99	84.15	84.30	84.44	84.57	84.70	84.82	84.94	85.05	85.15	4.0
4.5	83.17	83.35	83.53	83.69	83.84	83.99	84.13	84.27	84.39	84.51	4.5
5.0	82.31	82.53	82.73	82.92	83.10	83.27	83.42	83.58	83.72	83.86	5.0
5.5	81.42	81.67	81.90	82.12	82.32	82.51	82.69	82.87	83.03	83.19	5.5
6.0	80.48	80.77	81.03	81.28	81.51	81.73	81.94	82.13	82.32	82.49	6.0
6.5	79.49	79.82	80.12	80.41	80.67	80.92	81.15	81.38	81.58	81.78	6.5
7.0	78.41	78.80	79.15	79.48	79.79	80.07	80.33	80.58	80.82	81.04	7.0
7.5	77.23	77.69	78.11	78.49	78.84	79.17	79.47	79.75	80.01	80.26	7.5
8.0	75.89	76.46	76.96	77.41	77.82	78.20	78.55	78.87	79.17	79.45	8.0
8.5	74.30	75.03	75.66	76.21	76.70	77.14	77.55	77.92	78.27	78.59	8.5
9.0	72.19	73.28	74.12	74.83	75.44	75.98	76.46	76.89	77.29	77.66	9.0
9.5		70.64	72.11	73.14	73.95	74.63	75.23	75.75	76.22	76.65	9.5
10.0				70.67	72.02	73.00	73.78	74.44	75.02	75.53	10.0
10.5					68.06	70.66	71.92	72.85	73.61	74.25	10.5
11.0							68.53	70.62	71.81	72.70	11.0
11.5									68.72	70.56	11.5

M_1	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	M_1
σ_{max}	66.59	66.50	66.41	66.33	66.25	66.17	66.10	66.03	65.96	65.89	σ_{max}
δ_{max}	12.11	12.37	12.63	12.89	13.15	13.40	13.66	13.91	14.16	14.41	δ_{max}
δ											δ
.5	89.42	89.43	89.44	89.45	89.46	89.47	89.48	89.49	89.50	89.51	.5
1.0	88.84	88.86	88.88	88.90	88.92	88.94	88.96	88.98	89.00	89.01	1.0
1.5	88.26	88.29	88.32	88.35	88.38	88.41	88.44	88.47	88.49	88.52	1.5
2.0	87.67	87.71	87.76	87.80	87.84	87.88	87.92	87.95	87.99	88.02	2.0
2.5	87.08	87.13	87.19	87.24	87.29	87.34	87.39	87.44	87.48	87.52	2.5
3.0	86.48	86.55	86.61	86.68	86.74	86.80	86.86	86.91	86.97	87.02	3.0
3.5	85.87	85.95	86.04	86.11	86.18	86.25	86.32	86.39	86.45	86.51	3.5
4.0	85.26	85.35	85.44	85.53	85.62	85.70	85.78	85.85	85.92	86.00	4.0
4.5	84.63	84.74	84.85	84.95	85.04	85.14	85.23	85.31	85.39	85.47	4.5
5.0	83.99	84.12	84.23	84.35	84.46	84.56	84.67	84.76	84.86	84.94	5.0
5.5	83.34	83.48	83.61	83.74	83.86	83.98	84.09	84.20	84.31	84.41	5.5
6.0	82.66	82.82	82.97	83.12	83.25	83.39	83.51	83.63	83.75	83.86	6.0
6.5	81.97	82.14	82.31	82.47	82.63	82.77	82.92	83.05	83.18	83.30	6.5
7.0	81.25	81.45	81.63	81.81	81.98	82.15	82.30	82.45	82.59	82.73	7.0
7.5	80.50	80.72	80.93	81.13	81.32	81.50	81.67	81.83	81.99	82.14	7.5
8.0	79.71	79.96	80.19	80.42	80.63	80.83	81.02	81.20	81.37	81.53	8.0
8.5	78.88	79.16	79.42	79.67	79.91	80.13	80.34	80.54	80.73	80.91	8.5
9.0	78.00	78.32	78.61	78.89	79.15	79.39	79.63	79.85	80.06	80.26	9.0
9.5	77.04	77.40	77.74	78.06	78.35	78.62	78.88	79.13	79.36	79.58	9.5
10.0	75.99	76.42	76.80	77.16	77.49	77.80	78.10	78.37	78.63	78.87	10.0
10.5	74.82	75.32	75.77	76.19	76.57	76.92	77.25	77.56	77.85	78.12	10.5
11.0	73.44	74.06	74.62	75.11	75.56	75.97	76.34	76.69	77.02	77.32	11.0
11.5	71.69	72.55	73.26	73.88	74.42	74.90	75.34	75.75	76.12	76.47	11.5
12.0	68.79	70.47	71.55	72.39	73.09	73.69	74.22	74.70	75.13	75.53	12.0
12.5			68.79	70.37	71.41	72.22	72.91	73.50	74.02	74.49	12.5
13.0					68.73	70.24	71.25	72.05	72.72	73.30	13.0
13.5							68.63	70.09	71.08	71.87	13.5
14.0									68.49	69.92	14.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	M_1
σ_{max}	65.83	65.77	65.71	65.65	65.60	65.55	65.50	65.45	65.40	65.36	σ_{max}
δ_{max}	14.65	14.90	15.14	15.38	15.62	15.86	16.09	16.32	16.55	16.78	δ_{max}
δ											δ
1.0	89.03	89.05	89.06	89.08	89.09	89.10	89.12	89.13	89.14	89.15	1.0
2.0	88.05	88.09	88.12	88.15	88.17	88.20	88.23	88.25	88.28	88.30	2.0
3.0	87.07	87.11	87.16	87.20	87.25	87.29	87.33	87.37	87.41	87.44	3.0
4.0	86.06	86.13	86.19	86.25	86.31	86.36	86.42	86.47	86.52	86.57	4.0
5.0	85.03	85.11	85.19	85.27	85.35	85.42	85.49	85.56	85.62	85.68	5.0
6.0	83.97	84.07	84.17	84.27	84.36	84.45	84.53	84.62	84.70	84.77	6.0
7.0	82.86	82.99	83.11	83.22	83.33	83.44	83.54	83.64	83.74	83.83	7.0
8.0	81.69	81.84	81.99	82.13	82.26	82.39	82.51	82.63	82.75	82.86	8.0
9.0	80.45	80.63	80.80	80.97	81.13	81.28	81.43	81.57	81.71	81.84	9.0
10.0	79.10	79.32	79.53	79.73	79.92	80.10	80.28	80.44	80.60	80.76	10.0
11.0	77.61	77.88	78.14	78.38	78.61	78.83	79.03	79.23	79.42	79.60	11.0
12.0	75.90	76.24	76.56	76.86	77.14	77.41	77.66	77.91	78.13	78.35	12.0
13.0	73.82	74.29	74.71	75.10	75.46	75.80	76.12	76.41	76.69	76.95	13.0
14.0	70.89	71.67	72.33	72.90	73.41	73.86	74.28	74.67	75.02	75.36	14.0
15.0			68.06	69.50	70.48	71.25	71.90	72.47	72.97	73.42	15.0
16.0							67.38	68.97	69.98	70.77	16.0
M_1	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	M_1
σ_{max}	65.32	65.28	65.24	65.20	65.17	65.13	65.10	65.07	65.04	65.01	σ_{max}
δ_{max}	17.01	17.24	17.46	17.68	17.90	18.12	18.34	18.55	18.76	18.97	δ_{max}
δ											δ
1.0	89.16	89.18	89.19	89.20	89.21	89.22	89.23	89.24	89.25	89.26	1.0
2.0	88.33	88.35	88.37	88.39	88.41	88.43	88.45	88.47	88.49	88.51	2.0
3.0	87.48	87.51	87.55	87.58	87.61	87.64	87.67	87.70	87.73	87.75	3.0
4.0	86.62	86.67	86.71	86.76	86.80	86.84	86.88	86.92	86.96	86.99	4.0
5.0	85.74	85.80	85.86	85.92	85.97	86.03	86.08	86.13	86.17	86.22	5.0
6.0	84.85	84.92	84.99	85.06	85.13	85.19	85.25	85.31	85.37	85.43	6.0
7.0	83.92	84.01	84.10	84.18	84.26	84.33	84.41	84.48	84.55	84.62	7.0
8.0	82.97	83.07	83.17	83.27	83.36	83.45	83.54	83.62	83.71	83.79	8.0
9.0	81.96	82.09	82.20	82.32	82.43	82.53	82.63	82.73	82.83	82.93	9.0
10.0	80.91	81.05	81.19	81.32	81.45	81.57	81.69	81.80	81.92	82.02	10.0
11.0	79.78	79.94	80.11	80.26	80.41	80.55	80.69	80.82	80.95	81.08	11.0
12.0	78.56	78.75	78.94	79.12	79.30	79.47	79.63	79.78	79.93	80.08	12.0
13.0	77.20	77.44	77.67	77.89	78.09	78.29	78.48	78.66	78.83	79.00	13.0
14.0	75.67	75.96	76.24	76.50	76.75	76.99	77.21	77.43	77.63	77.83	14.0
15.0	73.84	74.22	74.58	74.91	75.22	75.51	75.79	76.05	76.30	76.53	15.0
16.0	71.43	72.00	72.50	72.96	73.37	73.76	74.11	74.44	74.76	75.05	16.0
17.0	66.00	68.28	69.38	70.21	70.89	71.48	71.99	72.46	72.88	73.26	17.0
18.0						67.27	68.63	69.55	70.27	70.89	18.0
M_1	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89	M_1
σ_{max}	64.99	64.96	64.94	64.91	64.89	64.87	64.85	64.83	64.82	64.80	σ_{max}
δ_{max}	19.18	19.39	19.59	19.80	20.00	20.20	20.40	20.59	20.79	20.98	δ_{max}
δ											δ
1.0	89.26	89.27	89.28	89.29	89.30	89.31	89.31	89.32	89.33	89.34	1.0
2.0	88.53	88.54	88.56	88.57	88.59	88.61	88.62	88.64	88.65	88.66	2.0
3.0	87.78	87.81	87.83	87.86	87.88	87.91	87.93	87.95	87.97	87.99	3.0
4.0	87.03	87.06	87.10	87.13	87.16	87.19	87.22	87.25	87.28	87.31	4.0
5.0	86.27	86.31	86.35	86.39	86.43	86.47	86.51	86.55	86.59	86.62	5.0
6.0	85.48	85.54	85.59	85.64	85.69	85.74	85.79	85.83	85.88	85.92	6.0
7.0	84.69	84.75	84.81	84.87	84.93	84.99	85.05	85.10	85.16	85.21	7.0
8.0	83.87	83.94	84.01	84.09	84.15	84.22	84.29	84.35	84.41	84.48	8.0
9.0	83.02	83.10	83.19	83.27	83.35	83.43	83.51	83.58	83.65	83.72	9.0
10.0	82.13	82.23	82.33	82.42	82.52	82.61	82.69	82.78	82.86	82.94	10.0
11.0	81.20	81.32	81.43	81.54	81.64	81.75	81.85	81.94	82.04	82.13	11.0
12.0	80.21	80.35	80.48	80.60	80.73	80.84	80.96	81.07	81.18	81.28	12.0
13.0	79.16	79.32	79.47	79.61	79.75	79.89	80.02	80.14	80.27	80.39	13.0
14.0	78.02	78.20	78.38	78.54	78.71	78.86	79.01	79.16	79.30	79.43	14.0
15.0	76.76	76.97	77.18	77.37	77.56	77.75	77.92	78.09	78.25	78.41	15.0
16.0	75.32	75.59	75.83	76.07	76.30	76.51	76.72	76.92	77.11	77.29	16.0
17.0	73.62	73.96	74.27	74.57	74.84	75.11	75.36	75.60	75.82	76.04	17.0
18.0	71.42	71.90	72.34	72.73	73.10	73.44	73.76	74.06	74.34	74.61	18.0
19.0	67.58	68.71	69.53	70.20	70.78	71.28	71.74	72.15	72.53	72.88	19.0
20.0						67.54	68.60	69.38	70.02	70.57	20.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99	M_1
σ_{max}	64.78	64.77	64.75	64.74	64.73	64.72	64.71	64.70	64.69	64.68	σ_{max}
δ_{max}	21.17	21.36	21.54	21.73	21.91	22.09	22.27	22.45	22.63	22.80	δ_{max}
δ											δ
1.0	89.34	89.35	89.35	89.36	89.37	89.37	89.38	89.38	89.39	89.40	1.0
2.0	88.68	88.69	88.70	88.72	88.73	88.74	88.75	88.77	88.78	88.79	2.0
3.0	88.01	88.03	88.05	88.07	88.09	88.11	88.13	88.14	88.16	88.18	3.0
4.0	87.34	87.37	87.39	87.42	87.44	87.47	87.49	87.51	87.54	87.56	4.0
5.0	86.66	86.69	86.73	86.76	86.79	86.82	86.85	86.88	86.91	86.94	5.0
6.0	85.96	86.01	86.05	86.09	86.13	86.16	86.20	86.24	86.27	86.31	6.0
7.0	85.26	85.31	85.36	85.40	85.45	85.49	85.54	85.58	85.62	85.66	7.0
8.0	84.53	84.59	84.65	84.70	84.76	84.81	84.86	84.91	84.96	85.01	8.0
9.0	83.79	83.86	83.92	83.98	84.05	84.11	84.16	84.22	84.28	84.33	9.0
10.0	83.02	83.10	83.17	83.24	83.31	83.38	83.45	83.51	83.58	83.64	10.0
11.0	82.22	82.31	82.39	82.47	82.55	82.63	82.71	82.78	82.86	82.93	11.0
12.0	81.38	81.48	81.58	81.67	81.76	81.85	81.93	82.02	82.10	82.18	12.0
13.0	80.50	80.61	80.72	80.83	80.93	81.03	81.13	81.22	81.31	81.40	13.0
14.0	79.57	79.69	79.82	79.94	80.05	80.17	80.27	80.38	80.49	80.59	14.0
15.0	78.56	78.71	78.85	78.98	79.12	79.24	79.37	79.49	79.61	79.72	15.0
16.0	77.46	77.63	77.80	77.96	78.11	78.25	78.40	78.53	78.67	78.80	16.0
17.0	76.25	76.45	76.64	76.82	77.00	77.17	77.33	77.49	77.65	77.79	17.0
18.0	74.86	75.10	75.33	75.55	75.76	75.96	76.16	76.34	76.52	76.70	18.0
19.0	73.21	73.52	73.81	74.08	74.34	74.58	74.82	75.04	75.26	75.46	19.0
20.0	71.06	71.50	71.90	72.27	72.61	72.93	73.23	73.51	73.78	74.03	20.0
21.0	67.22	68.29	69.08	69.71	70.26	70.74	71.18	71.57	71.94	72.27	21.0
22.0						66.52	67.78	68.62	69.28	69.84	22.0
M_1	2.00	2.02	2.04	2.06	2.08	2.10	2.15	2.20	2.25	2.30	M_1
σ_{max}	64.67	64.65	64.64	64.63	64.63	64.62	64.62	64.62	64.63	64.65	σ_{max}
δ_{max}	22.97	23.31	23.65	23.98	24.30	24.61	25.38	26.10	26.79	27.45	δ_{max}
δ											δ
1.0	89.40	89.41	89.42	89.43	89.44	89.45	89.47	89.49	89.50	89.52	1.0
2.0	88.80	88.82	88.84	88.86	88.88	88.90	88.94	88.97	89.01	89.04	2.0
3.0	88.19	88.22	88.25	88.28	88.31	88.34	88.40	88.46	88.51	88.56	3.0
4.0	87.58	87.62	87.67	87.70	87.74	87.78	87.86	87.94	88.01	88.07	4.0
5.0	86.97	87.02	87.07	87.12	87.17	87.21	87.32	87.41	87.50	87.58	5.0
6.0	86.34	86.41	86.47	86.53	86.58	86.64	86.77	86.88	86.99	87.09	6.0
7.0	85.70	85.78	85.85	85.92	85.99	86.06	86.21	86.35	86.47	86.58	7.0
8.0	85.05	85.14	85.23	85.31	85.39	85.46	85.64	85.80	85.94	86.08	8.0
9.0	84.39	84.49	84.59	84.68	84.77	84.86	85.06	85.24	85.40	85.56	9.0
10.0	83.70	83.82	83.93	84.04	84.14	84.24	84.46	84.67	84.86	85.03	10.0
11.0	82.99	83.13	83.25	83.37	83.49	83.60	83.85	84.09	84.29	84.48	11.0
12.0	82.26	82.41	82.55	82.68	82.81	82.94	83.23	83.48	83.72	83.93	12.0
13.0	81.49	81.66	81.82	81.97	82.11	82.25	82.57	82.86	83.12	83.36	13.0
14.0	80.68	80.87	81.05	81.22	81.38	81.54	81.90	82.22	82.50	82.76	14.0
15.0	79.83	80.04	80.25	80.44	80.62	80.79	81.19	81.54	81.86	82.15	15.0
16.0	78.92	79.16	79.39	79.60	79.81	80.00	80.44	80.84	81.19	81.51	16.0
17.0	77.94	78.21	78.47	78.71	78.94	79.16	79.66	80.10	80.49	80.84	17.0
18.0	76.86	77.18	77.47	77.75	78.01	78.26	78.82	79.31	79.74	80.13	18.0
19.0	75.66	76.03	76.37	76.69	76.99	77.28	77.91	78.47	78.95	79.38	19.0
20.0	74.27	74.72	75.13	75.51	75.86	76.19	76.92	77.55	78.10	78.58	20.0
21.0	72.59	73.17	73.68	74.15	74.57	74.96	75.82	76.54	77.17	77.72	21.0
22.0	70.33	71.17	71.88	72.49	73.03	73.52	74.56	75.42	76.14	76.77	22.0
23.0		67.93	69.28	70.26	71.05	71.72	73.07	74.12	74.99	75.72	23.0
24.0					67.79	69.10	71.16	72.56	73.64	74.51	24.0
25.0							68.14	70.48	71.97	73.09	25.0
26.0								66.48	69.63	71.26	26.0
27.0									68.46		27.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75	2.80	M_1
σ_{max}	64.68	64.71	64.74	64.78	64.82	64.87	64.91	64.96	65.00	65.05	σ_{max}
δ_{max}	28.08	28.68	29.25	29.80	30.32	30.81	31.29	31.74	32.17	32.59	δ_{max}
δ											δ
1.0	89.53	89.55	89.56	89.57	89.58	89.59	89.60	89.61	89.62	89.63	1.0
2.0	89.07	89.09	89.12	89.14	89.16	89.18	89.20	89.22	89.23	89.25	2.0
3.0	88.60	88.64	88.68	88.71	88.74	88.77	88.80	88.83	88.85	88.87	3.0
4.0	88.13	88.18	88.23	88.28	88.32	88.36	88.40	88.43	88.46	88.49	4.0
5.0	87.65	87.72	87.79	87.84	87.90	87.94	87.99	88.03	88.07	88.11	5.0
6.0	87.17	87.26	87.33	87.40	87.46	87.52	87.58	87.63	87.68	87.73	6.0
7.0	86.69	86.78	86.87	86.95	87.03	87.10	87.17	87.23	87.28	87.34	7.0
8.0	86.20	86.31	86.41	86.50	86.59	86.67	86.75	86.82	86.88	86.94	8.0
9.0	85.69	85.82	85.94	86.05	86.14	86.24	86.32	86.40	86.48	86.55	9.0
10.0	85.18	85.32	85.46	85.58	85.69	85.79	85.89	85.98	86.06	86.14	10.0
11.0	84.66	84.82	84.96	85.10	85.22	85.34	85.45	85.55	85.64	85.73	11.0
12.0	84.12	84.30	84.46	84.61	84.75	84.88	85.00	85.11	85.21	85.31	12.0
13.0	83.57	83.77	83.95	84.11	84.27	84.41	84.54	84.66	84.77	84.88	13.0
14.0	83.00	83.22	83.42	83.60	83.77	83.92	84.07	84.20	84.32	84.44	14.0
15.0	82.41	82.65	82.87	83.07	83.25	83.42	83.58	83.73	83.86	83.99	15.0
16.0	81.80	82.06	82.30	82.52	82.72	82.91	83.08	83.24	83.39	83.53	16.0
17.0	81.16	81.44	81.71	81.95	82.17	82.37	82.56	82.73	82.90	83.05	17.0
18.0	80.48	80.80	81.09	81.35	81.59	81.82	82.02	82.21	82.39	82.55	18.0
19.0	79.77	80.12	80.44	80.73	80.99	81.23	81.46	81.66	81.86	82.03	19.0
20.0	79.02	79.40	79.75	80.07	80.36	80.63	80.87	81.09	81.30	81.50	20.0
21.0	78.20	78.63	79.02	79.37	79.69	79.98	80.25	80.50	80.72	80.93	21.0
22.0	77.32	77.80	78.24	78.63	78.98	79.30	79.59	79.86	80.11	80.34	22.0
23.0	76.34	76.90	77.38	77.82	78.21	78.57	78.89	79.19	79.46	79.71	23.0
24.0	75.25	75.89	76.45	76.94	77.38	77.78	78.14	78.47	78.77	79.04	24.0
25.0	73.99	74.74	75.40	75.96	76.47	76.91	77.32	77.68	78.02	78.33	25.0
26.0	72.45	73.40	74.19	74.86	75.44	75.96	76.41	76.83	77.20	77.54	26.0
27.0	70.41	71.72	72.73	73.56	74.26	74.87	75.40	75.87	76.30	76.69	27.0
28.0	66.33	69.29	70.83	71.95	72.85	73.59	74.23	74.79	75.28	75.73	28.0
29.0			67.58	69.68	71.00	72.01	72.82	73.51	74.11	74.63	29.0
30.0					67.97	69.78	70.98	71.91	72.68	73.33	30.0
31.0							67.89	69.63	70.78	71.68	31.0
32.0									67.32	69.21	32.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	2.85	2.90	2.95	3.00	3.25	3.50	3.75	4.00	4.25	4.50	M_1
σ_{max}	65.10	65.15	65.19	65.24	65.47	65.69	65.88	66.06	66.21	66.35	σ_{max}
δ_{max}	32.98	33.36	33.73	34.07	35.61	36.87	37.91	38.77	39.51	40.13	δ_{max}
δ											δ
1.0	89.63	89.64	89.65	89.65	89.68	89.69	89.71	89.72	89.73	89.74	1.0
2.0	89.26	89.28	89.29	89.30	89.35	89.39	89.42	89.44	89.46	89.48	2.0
3.0	88.89	88.91	88.93	88.95	89.02	89.08	89.12	89.16	89.19	89.21	3.0
4.0	88.52	88.55	88.57	88.59	88.69	88.77	88.83	88.88	88.92	88.95	4.0
5.0	88.15	88.18	88.21	88.24	88.36	88.46	88.53	88.59	88.64	88.68	5.0
6.0	87.77	87.81	87.85	87.88	88.03	88.15	88.24	88.31	88.37	88.41	6.0
7.0	87.39	87.43	87.48	87.52	87.69	87.83	87.94	88.02	88.09	88.15	7.0
8.0	87.00	87.06	87.11	87.15	87.36	87.51	87.63	87.73	87.81	87.88	8.0
9.0	86.61	86.67	86.73	86.78	87.01	87.19	87.33	87.44	87.53	87.60	9.0
10.0	86.22	86.28	86.35	86.41	86.67	86.86	87.02	87.14	87.24	87.32	10.0
11.0	85.81	85.89	85.96	86.03	86.31	86.53	86.70	86.84	86.95	87.04	11.0
12.0	85.40	85.48	85.56	85.64	85.95	86.20	86.38	86.53	86.66	86.76	12.0
13.0	84.98	85.07	85.16	85.24	85.59	85.85	86.06	86.22	86.36	86.47	13.0
14.0	84.55	84.65	84.75	84.84	85.21	85.50	85.73	85.91	86.06	86.18	14.0
15.0	84.11	84.22	84.32	84.42	84.83	85.15	85.39	85.59	85.74	85.87	15.0
16.0	83.66	83.78	83.89	84.00	84.44	84.78	85.05	85.26	85.43	85.57	16.0
17.0	83.19	83.32	83.44	83.56	84.04	84.41	84.69	84.92	85.10	85.26	17.0
18.0	82.70	82.84	82.98	83.11	83.63	84.02	84.33	84.57	84.77	84.94	18.0
19.0	82.20	82.35	82.50	82.63	83.20	83.63	83.96	84.22	84.43	84.61	19.0
20.0	81.68	81.84	82.00	82.15	82.76	83.22	83.57	83.85	84.08	84.27	20.0
21.0	81.13	81.31	81.48	81.64	82.30	82.79	83.18	83.48	83.72	83.92	21.0
22.0	80.55	80.75	80.93	81.11	81.82	82.35	82.76	83.09	83.35	83.56	22.0
23.0	79.94	80.16	80.36	80.55	81.32	81.89	82.33	82.68	82.96	83.19	23.0
24.0	79.30	79.53	79.75	79.96	80.79	81.41	81.89	82.26	82.56	82.81	24.0
25.0	78.61	78.86	79.10	79.33	80.24	80.91	81.42	81.82	82.14	82.40	25.0
26.0	77.86	78.14	78.41	78.65	79.65	80.38	80.93	81.36	81.70	81.99	26.0
27.0	77.04	77.36	77.65	77.92	79.02	79.81	80.41	80.87	81.24	81.55	27.0
28.0	76.13	76.49	76.82	77.13	78.34	79.21	79.86	80.36	80.76	81.08	28.0
29.0	75.10	75.52	75.90	76.24	77.60	78.56	79.27	79.81	80.25	80.60	29.0
30.0	73.89	74.39	74.84	75.24	76.79	77.85	78.63	79.23	79.70	80.08	30.0
31.0	72.41	73.04	73.59	74.07	75.87	77.07	77.94	78.60	79.11	79.52	31.0
32.0	70.39	71.29	72.02	72.64	74.83	76.21	77.18	77.91	78.47	78.92	32.0
33.0		68.44	69.76	70.71	73.58	75.22	76.33	77.15	77.78	78.27	33.0
34.0				66.75	71.99	74.05	75.36	76.30	77.00	77.56	34.0
35.0					69.63	72.59	74.22	75.32	76.13	76.76	35.0
36.0						70.54	72.79	74.16	75.12	75.85	36.0
37.0							70.80	72.70	73.91	74.78	37.0
38.0								70.60	72.35	73.47	38.0
39.0									69.91	71.70	39.0
40.0										68.25	40.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	4.75	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	M_1
σ_{max}	66.48	66.58	66.77	66.91	67.03	67.13	67.21	67.28	67.33	67.38	σ_{max}
δ_{max}	40.66	41.12	41.86	42.44	42.89	43.25	43.55	43.79	43.99	44.16	δ_{max}
δ											δ
1.0	89.74	89.75	89.76	89.77	89.77	89.78	89.78	89.78	89.78	89.79	1.0
2.0	89.49	89.50	89.52	89.53	89.54	89.55	89.56	89.56	89.56	89.57	2.0
3.0	89.23	89.25	89.28	89.30	89.31	89.33	89.34	89.34	89.35	89.36	3.0
4.0	88.97	89.00	89.03	89.06	89.08	89.10	89.11	89.12	89.13	89.14	4.0
5.0	88.72	88.74	88.79	88.83	88.85	88.87	88.89	88.90	88.91	88.92	5.0
6.0	88.46	88.49	88.54	88.58	88.62	88.64	88.66	88.68	88.69	88.70	6.0
7.0	88.19	88.23	88.30	88.34	88.38	88.41	88.43	88.45	88.47	88.48	7.0
8.0	87.93	87.98	88.05	88.10	88.15	88.18	88.21	88.23	88.25	88.26	8.0
9.0	87.66	87.71	87.80	87.86	87.91	87.95	87.98	88.00	88.02	88.04	9.0
10.0	87.39	87.45	87.54	87.61	87.67	87.71	87.74	87.77	87.79	87.81	10.0
11.0	87.12	87.18	87.29	87.36	87.42	87.47	87.51	87.54	87.56	87.58	11.0
12.0	86.84	86.91	87.03	87.11	87.18	87.23	87.27	87.30	87.33	87.35	12.0
13.0	86.56	86.64	86.76	86.85	86.92	86.98	87.03	87.06	87.09	87.12	13.0
14.0	86.28	86.36	86.49	86.59	86.67	86.73	86.78	86.82	86.85	86.88	14.0
15.0	85.98	86.08	86.22	86.33	86.41	86.48	86.53	86.57	86.61	86.64	15.0
16.0	85.69	85.78	85.94	86.06	86.15	86.22	86.28	86.32	86.36	86.39	16.0
17.0	85.38	85.49	85.66	85.78	85.88	85.96	86.02	86.07	86.11	86.14	17.0
18.0	85.07	85.19	85.37	85.50	85.61	85.69	85.75	85.81	85.85	85.89	18.0
19.0	84.75	84.87	85.07	85.21	85.32	85.41	85.48	85.54	85.59	85.62	19.0
20.0	84.43	84.56	84.76	84.92	85.04	85.13	85.20	85.27	85.32	85.36	20.0
21.0	84.09	84.23	84.45	84.62	84.74	84.84	84.92	84.99	85.04	85.08	21.0
22.0	83.74	83.89	84.13	84.30	84.44	84.54	84.63	84.70	84.75	84.80	22.0
23.0	83.38	83.54	83.79	83.98	84.13	84.24	84.33	84.40	84.46	84.51	23.0
24.0	83.01	83.18	83.45	83.65	83.80	83.92	84.02	84.10	84.16	84.21	24.0
25.0	82.62	82.80	83.09	83.31	83.47	83.60	83.70	83.78	83.85	83.90	25.0
26.0	82.22	82.41	82.72	82.95	83.12	83.26	83.36	83.45	83.52	83.59	26.0
27.0	81.79	82.00	82.33	82.57	82.76	82.90	83.02	83.11	83.19	83.25	27.0
28.0	81.35	81.57	81.92	82.18	82.38	82.53	82.66	82.76	82.84	82.91	28.0
29.0	80.88	81.12	81.50	81.77	81.98	82.15	82.28	82.39	82.47	82.54	29.0
30.0	80.39	80.64	81.05	81.34	81.57	81.74	81.88	82.00	82.09	82.17	30.0
31.0	79.86	80.13	80.57	80.89	81.13	81.32	81.47	81.59	81.69	81.77	31.0
32.0	79.29	79.59	80.06	80.40	80.66	80.86	81.02	81.15	81.26	81.35	32.0
33.0	78.67	79.00	79.51	79.88	80.17	80.38	80.56	80.69	80.81	80.90	33.0
34.0	78.00	78.36	78.92	79.33	79.63	79.87	80.05	80.20	80.33	80.43	34.0
35.0	77.25	77.66	78.28	78.72	79.05	79.31	79.51	79.68	79.81	79.92	35.0
36.0	76.42	76.87	77.56	78.06	78.42	78.71	78.93	79.10	79.25	79.37	36.0
37.0	75.45	75.98	76.76	77.31	77.72	78.04	78.28	78.48	78.64	78.77	37.0
38.0	74.29	74.93	75.84	76.48	76.94	77.29	77.56	77.78	77.96	78.10	38.0
39.0	72.82	73.63	74.75	75.50	76.04	76.44	76.75	77.00	77.20	77.36	39.0
40.0	70.63	71.87	73.38	74.32	74.97	75.45	75.81	76.10	76.33	76.51	40.0
41.0		68.41	71.44	72.77	73.63	74.23	74.67	75.02	75.29	75.52	41.0
42.0				70.30	71.73	72.60	73.20	73.66	74.01	74.29	42.0
43.0						69.73	70.94	71.68	72.21	72.62	43.0
44.0									69.46	70.00	44.0

Tabella A.5 - Angolo σ dell'urto obliquo - Soluzione forte ($\gamma = 1.4$)

M_1	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	M_1
σ_{max}	67.42	67.45	67.48	67.51	67.53	67.55	67.57	67.59	67.60	67.62	σ_{max}
δ_{max}	44.31	44.43	44.54	44.63	44.71	44.78	44.84	44.90	44.95	44.99	δ_{max}
δ											δ
1.0	89.79	89.79	89.79	89.79	89.79	89.79	89.79	89.79	89.79	89.79	1.0
2.0	89.57	89.58	89.58	89.58	89.58	89.58	89.58	89.59	89.59	89.59	2.0
3.0	89.36	89.36	89.37	89.37	89.37	89.38	89.38	89.38	89.38	89.38	3.0
4.0	89.14	89.15	89.15	89.16	89.16	89.16	89.17	89.17	89.17	89.17	4.0
5.0	88.93	88.94	88.94	88.95	88.95	88.95	88.96	88.96	88.96	88.97	5.0
6.0	88.71	88.72	88.73	88.73	88.74	88.74	88.75	88.75	88.75	88.76	6.0
7.0	88.49	88.50	88.51	88.52	88.52	88.53	88.53	88.54	88.54	88.54	7.0
8.0	88.27	88.28	88.29	88.30	88.31	88.31	88.32	88.32	88.33	88.33	8.0
9.0	88.05	88.06	88.07	88.08	88.09	88.10	88.10	88.11	88.11	88.12	9.0
10.0	87.83	87.84	87.85	87.86	87.87	87.88	87.89	87.89	87.90	87.90	10.0
11.0	87.60	87.62	87.63	87.64	87.65	87.66	87.67	87.67	87.68	87.68	11.0
12.0	87.37	87.39	87.40	87.41	87.42	87.43	87.44	87.45	87.46	87.46	12.0
13.0	87.14	87.16	87.17	87.19	87.20	87.21	87.22	87.22	87.23	87.24	13.0
14.0	86.90	86.92	86.94	86.95	86.97	86.98	86.99	87.00	87.00	87.01	14.0
15.0	86.66	86.68	86.70	86.72	86.73	86.74	86.75	86.76	86.77	86.78	15.0
16.0	86.42	86.44	86.46	86.48	86.49	86.51	86.52	86.53	86.54	86.55	16.0
17.0	86.17	86.20	86.22	86.24	86.25	86.27	86.28	86.29	86.30	86.31	17.0
18.0	85.92	85.94	85.97	85.99	86.00	86.02	86.03	86.04	86.05	86.06	18.0
19.0	85.66	85.69	85.71	85.73	85.75	85.76	85.78	85.79	85.80	85.81	19.0
20.0	85.39	85.42	85.45	85.47	85.49	85.51	85.52	85.53	85.55	85.56	20.0
21.0	85.12	85.15	85.18	85.20	85.22	85.24	85.26	85.27	85.28	85.30	21.0
22.0	84.84	84.88	84.90	84.93	84.95	84.97	84.99	85.00	85.02	85.03	22.0
23.0	84.55	84.59	84.62	84.65	84.67	84.69	84.71	84.73	84.74	84.75	23.0
24.0	84.26	84.30	84.33	84.36	84.38	84.40	84.42	84.44	84.46	84.47	24.0
25.0	83.95	83.99	84.03	84.06	84.08	84.11	84.13	84.15	84.16	84.18	25.0
26.0	83.64	83.68	83.72	83.75	83.78	83.80	83.82	83.84	83.86	83.87	26.0
27.0	83.31	83.35	83.39	83.43	83.46	83.48	83.50	83.52	83.54	83.56	27.0
28.0	82.96	83.01	83.06	83.09	83.12	83.15	83.18	83.20	83.22	83.23	28.0
29.0	82.61	82.66	82.70	82.74	82.77	82.80	82.83	82.85	82.87	82.89	29.0
30.0	82.23	82.29	82.33	82.38	82.41	82.44	82.47	82.49	82.52	82.53	30.0
31.0	81.84	81.90	81.95	81.99	82.03	82.06	82.09	82.12	82.14	82.16	31.0
32.0	81.42	81.49	81.54	81.59	81.63	81.66	81.69	81.72	81.75	81.77	32.0
33.0	80.98	81.05	81.11	81.16	81.20	81.24	81.27	81.30	81.33	81.35	33.0
34.0	80.51	80.59	80.65	80.70	80.75	80.79	80.83	80.86	80.89	80.91	34.0
35.0	80.01	80.09	80.16	80.22	80.27	80.31	80.35	80.38	80.41	80.44	35.0
36.0	79.47	79.56	79.63	79.69	79.74	79.79	79.83	79.87	79.90	79.93	36.0
37.0	78.88	78.97	79.05	79.12	79.18	79.23	79.28	79.32	79.35	79.38	37.0
38.0	78.23	78.33	78.42	78.49	78.56	78.61	78.67	78.71	78.75	78.78	38.0
39.0	77.50	77.61	77.71	77.80	77.87	77.93	77.99	78.04	78.08	78.12	39.0
40.0	76.67	76.80	76.91	77.01	77.09	77.16	77.22	77.28	77.33	77.37	40.0
41.0	75.70	75.85	75.98	76.09	76.19	76.27	76.34	76.41	76.46	76.51	41.0
42.0	74.51	74.70	74.86	74.99	75.11	75.21	75.29	75.37	75.44	75.50	42.0
43.0	72.93	73.19	73.40	73.58	73.73	73.86	73.97	74.06	74.15	74.23	43.0
44.0	70.23	70.75	71.14	71.44	71.69	71.90	72.07	72.22	72.34	72.45	44.0