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TABLE OF ELECTRONIC RADIAL FUNCTIONS AT THE
NUCLEAR SURFACE AND TANGENTS OF
PHASE SHIFTS

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M. E. Rose

OAK RIDGE NATIONAL LABORATORY

operated by

UNION CARBIDE CORPORATION

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U.S. ATOMIC ENERGY COMMISSION

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SURFACE AND TANGENTS OF PHASE SHIFTS

C. P. Bhalla^{*} and M. E. Rose

1. INTRODUCTION

Tables of electronic radial functions at the nuclear surface and sines of the differences in phase shifts have been published by Bhalla and Rose¹ for angular momentum $j = \frac{1}{2}$ ($\kappa = \pm 1$). In these calculations f_{κ} and g_{κ} , the nucleus was assumed to be a sphere of a uniform charge distribution and of a radius $1.2 A^{1/3} 10^{-13}$ cm.

Subsequently it became apparent that corresponding numerical tabulation for $\kappa = \pm 2$ would be of interest. The application of such tables arises in the following problems: first, the evaluation of the nuclear matrix elements by a comparison of beta decay experiments with the theory; second, the study of the second order effects in the allowed beta transitions, and finally, the analyses of the second forbidden beta experiments. To provide a complete set of tables for these investigations is the motivation of this work. The finite nuclear size effects^{1,2} and the finite deBroglie wave length effects³ have been incorporated in this work.

The standard theoretical formulas^{**} for beta decay experiments appear in the literature^{4,5,6}. In the study of the β - γ (circular polarization) cor-

^{*} On leave of absence from the Westinghouse Atomic Power Department, Pittsburgh, Pa.

^{**} We do not list all the references relevant to the subject. Most of these can be found in a review article by M. Deutsch and O. Kofoed-Hansen, Experimental Nuclear Physics, Vol. III (John Wiley and Sons Inc., New York, 1959).

relations, one needs combinations like $f_{\kappa} g_{\kappa'}$, $\cos (\Delta_{\kappa} - \Delta_{\kappa'})$ where $\kappa \neq \kappa'$. Here Δ_{κ} is the asymptotic phase exclusive of the log term. For this reason, we tabulate f_{κ} , g_{κ} and $\tan \Delta_{\kappa}$ for $\kappa = \pm 1$ and $\kappa = \pm 2$. Since $\cos (\Delta_{\kappa} - \Delta_{\kappa'})$ and $\sin (\Delta_{\kappa} - \Delta_{\kappa'})$ can be determined from $\tan \Delta_{\kappa}$ and $\tan \Delta_{\kappa'}$, only within a sign, we give a prescription for obtaining the appropriate sign in Section 3. It should be remembered that the quantities like $f_{\kappa} g_{\kappa'}$, $\cos (\Delta_{\kappa} - \Delta_{\kappa'})$ are independent of our (arbitrary) choice of phases in the evaluation of the radial functions and phases.

In the next section a brief summary of the formulation of the problem is given. Also we list definitions of the commonly used functions in beta decay. In Section 3, an explanation of the entries in the tables is given.

2. FORMULATION OF THE PROBLEM

In this report, we use the rationalized relativistic units:

$$\hbar = c = m_e = 1$$

We denote by f_{κ} and g_{κ} the radial functions of the β particle evaluated at the nuclear surface. In our units the nuclear radius is

$$\rho = 0.4285 \alpha A^{1/3} \quad (1)$$

where α is the fine structure constant (1/137.03). The uniform charge distribution corresponds to a potential $V(r)$, which is given by

$$\begin{aligned} V(r) &= -\frac{\alpha Z}{r} & \text{for } r > \rho \\ V(r) &= -\frac{\alpha Z}{2\rho} \left(3 - \frac{r^2}{\rho^2} \right) & r < \rho \end{aligned} \quad (2)$$

We express the solution of the Dirac equation

$$(-\alpha \cdot p - \beta + V(r)) \psi_{\kappa}^{\mu} = W \psi_{\kappa}^{\mu} \quad (3)$$

as⁷

$$\Psi_x^\mu = \begin{pmatrix} -i f_x(r) \chi_{-x}^\mu \\ g_x(r) \chi_x^\mu \end{pmatrix} \quad (3a)$$

We take the normalization of f_x and g_x to correspond to one particle in a sphere of unit radius.

The asymptotic behavior of rf_x and rg_x is

$$\begin{aligned} rf_x &\rightarrow -\sqrt{\frac{W-1}{W}} \sin\left(pr + \frac{\alpha ZW}{p} \ln 2pr + \Delta_x\right) \\ rg_x &\rightarrow \sqrt{\frac{W+1}{W}} \cos\left(pr + \frac{\alpha ZW}{p} \ln 2pr + \Delta_x\right) \end{aligned} \quad (4)$$

For the Coulomb field potential, we represent the solution of the Dirac equation as

$$\Psi_x^\mu = \begin{pmatrix} -i \frac{f_x}{r} \chi_{-x}^\mu \\ \frac{g_x}{r} \chi_x^\mu \end{pmatrix} \quad (5)$$

The asymptotic behavior of the radial function in Eq. (5) is given by (4) with Δ_x written as δ_x where⁸

$$\delta_x = -\arg \Gamma(\gamma_x + iy) + \eta_x - \frac{\pi\gamma_x}{2} \quad (6a)$$

and

$$y = \frac{\alpha ZW}{p} \quad (6b)$$

$$e^{2i\eta_x} = -\frac{x - i\alpha Z/p}{\gamma_x + iy} \quad (6c)$$

$$\gamma_x = \left[x^2 - (\alpha Z)^2 \right]^{\frac{1}{2}} \quad (6d)$$

$$\begin{aligned}
 j &= |\kappa| - \frac{1}{2} \\
 l &= \kappa & \text{for } \kappa > 0 \\
 l &= -(\kappa + 1) & \text{for } \kappa < 0
 \end{aligned} \tag{7}$$

We have computed f_κ and g_κ from the following equations*

$$g_\kappa = B_\kappa \left(\frac{f/g - \bar{f}/\bar{g}}{f^{(i)}/g^{(i)} - \bar{f}/\bar{g}} \right)_\kappa \frac{g_\kappa}{\rho} \tag{8a}$$

$$f_\kappa = \frac{f^{(i)}}{g^{(i)}} g_\kappa \tag{8b}$$

In Eq. (8a), we have put a subscript on the parenthesis to imply that all these functions carry a subscript κ . Also, whenever we do not give the arguments of the functions, it means that they are evaluated at the nuclear surface. In Eq. (8a),

$$B_\kappa = \left[1 + H_\kappa^2 + 2H_\kappa \cos(\delta_\kappa - \bar{\delta}_\kappa) \right]^{-\frac{1}{2}} \tag{9a}$$

where

$$H_\kappa = \left(\frac{f/g - f^{(i)}/g^{(i)}}{f^{(i)}/g^{(i)} - \bar{f}/\bar{g}} \right) \frac{g_\kappa}{\bar{g}_\kappa} \tag{9b}$$

$$\bar{\delta}_\kappa = -\arg \Gamma(-\gamma_\kappa + iy) + \bar{\gamma}_\kappa + \frac{\pi\gamma_\kappa}{2} \tag{9c}$$

We have denoted by $f^{(i)}/r$ and $g^{(i)}/r$ the regular solution of the Dirac equation (3) for $r < \rho$. The irregular solution for the Coulomb field is represented by $\bar{f}/r$ and $\bar{g}/r$.

*The details of the calculations can be found in ORNL report No. 2954.

We compute $\tan \Delta_{\kappa}$ from Eq. (10), where Δ_{κ} is defined in Eqs. (4).

$$\tan \Delta_{\kappa} = \frac{-a_0 + a_1 \tan \eta_{\kappa} + H_{\kappa} \left(\frac{\cos \bar{\eta}}{\cos \eta} \right)_{\kappa} [a_2 + a_3 \tan \bar{\eta}_{\kappa}]}{a_1 + a_0 \tan \eta_{\kappa} + H_{\kappa} \left(\frac{\cos \bar{\eta}}{\cos \eta} \right)_{\kappa} [a_3 - a_2 \tan \bar{\eta}_{\kappa}]} \quad (10)$$

where

$$\tan \eta_{\kappa} = \frac{\alpha Z}{p} \frac{W - 1}{\kappa - \gamma_{\kappa}}$$

$$\tan \bar{\eta}_{\kappa} = \frac{\alpha Z}{p} \frac{W - 1}{\kappa + \gamma_{\kappa}}$$

$$\left(\frac{\cos \bar{\eta}}{\cos \eta} \right)_{\kappa} = \left[\frac{\kappa + \gamma_{\kappa}}{\kappa - \gamma_{\kappa}} \cdot \frac{\kappa W - \gamma_{\kappa}}{\kappa W + \gamma_{\kappa}} \right]^{\frac{1}{2}}$$

$$a_0 \equiv \sin \frac{\pi \gamma_{\kappa}}{2} \operatorname{Re} \frac{\Gamma(\gamma_{\kappa} + iy)}{|\Gamma(\gamma_{\kappa} + iy)|} + \cos \frac{\pi \gamma_{\kappa}}{2} \operatorname{Im} \frac{\Gamma(\gamma_{\kappa} + iy)}{|\Gamma(\gamma_{\kappa} + iy)|}$$

$$a_1 \equiv \cos \frac{\pi \gamma_{\kappa}}{2} \operatorname{Re} \frac{\Gamma(\gamma_{\kappa} + iy)}{|\Gamma(\gamma_{\kappa} + iy)|} - \sin \frac{\pi \gamma_{\kappa}}{2} \operatorname{Im} \frac{\Gamma(\gamma_{\kappa} + iy)}{|\Gamma(\gamma_{\kappa} + iy)|}$$

$$a_2 \equiv \sin \frac{\pi \gamma_{\kappa}}{2} \operatorname{Re} \frac{\Gamma(-\gamma_{\kappa} + iy)}{|\Gamma(-\gamma_{\kappa} + iy)|} - \cos \frac{\pi \gamma_{\kappa}}{2} \operatorname{Im} \frac{\Gamma(-\gamma_{\kappa} + iy)}{|\Gamma(-\gamma_{\kappa} + iy)|}$$

$$a_3 \equiv \cos \frac{\pi \gamma_{\kappa}}{2} \operatorname{Re} \frac{\Gamma(-\gamma_{\kappa} + iy)}{|\Gamma(-\gamma_{\kappa} + iy)|} + \sin \frac{\pi \gamma_{\kappa}}{2} \operatorname{Im} \frac{\Gamma(-\gamma_{\kappa} + iy)}{|\Gamma(-\gamma_{\kappa} + iy)|}$$

It should be noted that $\tan \Delta_{\kappa}$, as given in Eq. (10), is independent of the choice of the (arbitrary) phase conventions which we adopt in the computations of f_{κ} and g_{κ} . We point out that the effect of the finite nuclear size on

$\tan \Delta_{\kappa}$ is contained in the terms multiplied by $H_{\kappa} \left(\frac{\cos \bar{\eta}}{\cos \eta} \right)_{\kappa}$ in Eq. (10).

We also tabulate the Fermi function, F_0 , which is defined as follows:

$$F_o(W, Z) = 4(2p\rho)^{2(\gamma_1-1)} e^{\pi y} \left(\frac{|\Gamma(\gamma_1 + iy)|}{\Gamma(2\gamma_1 + 1)} \right)^2 \quad (11)$$

In addition, we give $\bar{F}$, which is defined as follows

$$\bar{F} = 16 (2p\rho)^{2(\gamma_2-2)} e^{\pi y} \left(\frac{|\Gamma(\gamma_2 + iy)|}{\Gamma(2\gamma_2 + 1)} \right)^2 \quad (12)$$

We give a list of the useful combinations of radial wave functions and phases.

In the following $k = |\kappa|$ and notation of Morita is followed.

$$\begin{aligned} L_{k-1} &= (2p^2 F_o)^{-1} \rho^{2-2k} (g_{-k}^2 + f_k^2) \\ M_{k-1} &= (2p^2 F_o)^{-1} \rho^{-2k} (g_k^2 + f_{-k}^2) \\ N_{k-1} &= (2p^2 F_o)^{-1} \rho^{1-2k} (f_{-k} g_{-k} - f_k g_k) \\ P_{k-1} &= (2p^2 F_o)^{-1} \rho^{2-2k} (g_{-k}^2 - f_k^2) \\ Q_{k-1} &= (2p^2 F_o)^{-1} \rho^{-2k} (g_k^2 - f_{-k}^2) \\ R_{k-1} &= (2p^2 F_o)^{-1} \rho^{1-2k} (f_{-k} g_{-k} + f_k g_k) \\ A_{k-1} &= (p^2 F_o)^{-1} \rho^{2-2k} f_k g_{-k} \sin(\Delta_k - \Delta_{-k}) \\ B_{k-1} &= (p^2 F_o)^{-1} \rho^{-2k} f_{-k} g_k \sin(\Delta_k - \Delta_{-k}) \\ C_{k-1} &= (p^2 F_o)^{-1} \rho^{1-2k} (f_k f_{-k} + g_k g_{-k}) \sin(\Delta_k - \Delta_{-k}) \\ D_{k-1} &= (p^2 F_o)^{-1} \rho^{1-2k} (f_k f_{-k} - g_k g_{-k}) \sin(\Delta_k - \Delta_{-k}) \\ L_{12} &= (2p^2 F_o)^{-1} \rho^{-1} \left[g_{-1} f_2 \cos(\Delta_{-1} - \Delta_2) - f_1 g_{-2} \cos(\Delta_1 - \Delta_{-2}) \right] \end{aligned}$$

$$\begin{aligned}
 N_{12} &= (2p^2 F_0)^{-1} \bar{\rho}^{-2} \left[f_{-1} f_2 \cos (\Delta_{-1} - \Delta_2) + g_1 g_{-2} \cos (\Delta_1 - \Delta_{-2}) \right] \\
 \underline{L}_{12} &= (2p^2 F_0)^{-1} \bar{\rho}^{-1} \left[f_1 f_2 \sin (\Delta_1 - \Delta_2) + g_{-1} g_{-2} \sin (\Delta_{-1} - \Delta_{-2}) \right] \\
 \underline{N}_{11} &= (2p^2 F_0)^{-1} \bar{\rho}^{-1} \left[f_{-1} f_1 - g_{-1} g_1 \right] \sin (\Delta_{-1} - \Delta_1) \\
 \underline{N}_{12} &= (2p^2 F_0)^{-1} \bar{\rho}^{-2} \left[f_{-1} g_{-2} \sin (\Delta_{-1} - \Delta_{-2}) - g_1 f_2 \sin (\Delta_1 - \Delta_2) \right] \\
 H_{12} &= (2p^2 F_0)^{-1} \bar{\rho}^{-1} \left[g_{-1} f_2 \sin (\Delta_{-1} - \Delta_2) - f_1 g_{-2} \sin (\Delta_1 - \Delta_{-2}) \right] \\
 J_{12} &= (2p^2 F_0)^{-1} \bar{\rho}^{-2} \left[f_{-1} f_2 \sin (\Delta_{-1} - \Delta_2) + g_1 g_{-2} \sin (\Delta_1 - \Delta_{-2}) \right] \\
 \underline{H}_{12} &= (2p^2 F_0)^{-1} \bar{\rho}^{-1} \left[f_1 f_2 \cos (\Delta_1 - \Delta_2) + g_{-1} g_{-2} \cos (\Delta_{-1} - \Delta_{-2}) \right] \\
 \underline{J}_{11} &= (2p^2 F_0)^{-1} \bar{\rho}^{-1} \left[f_{-1} f_1 + g_{-1} g_1 \right] \cos (\Delta_{-1} - \Delta_1) \\
 \underline{J}_{12} &= (2p^2 F_0)^{-1} \bar{\rho}^{-2} \left[f_{-1} g_{-2} \cos (\Delta_{-1} - \Delta_{-2}) - g_1 f_2 \cos (\Delta_1 - \Delta_2) \right]
 \end{aligned}$$

3. EXPLANATION OF THE TABLES

In this report, Z and A refers to the atomic number and the mass number of the daughter nucleus. The values of Z and A are listed at the top of each page with the following notation: for the electrons, Z is positive and for the positrons, Z is a negative number. For $|\kappa| = 1$, we give F_0 , f_1 , g_1 , $\tan \Delta_1$, f_{-1} , g_{-1} and $\tan \Delta_{-1}$. For $|\kappa| = 2$, we tabulate $\bar{F}$, f_2 , g_2 , $\tan \Delta_2$, f_{-2} , g_{-2} and $\tan \Delta_{-2}$. $\bar{F}$ has been given as a matter of convenience since it has the same output format from the ORACLE for $|\kappa| = 1$ and $|\kappa| = 2$. We have tabulated the functions for thirty values of the beta momentum p in steps of 0.2 up to p = 6.2.

In all these tables, each entry, except for the momentum values p, appears in the form of a six digit number m followed by a positive or a negative

integer r , and $0.1 \leq m < 1.0$. This is to be read as $m \times (10)^r$. However, when $r = 0$, the printing of r is omitted. As an illustration, we take $Z = 10$ and $A = 20$. Since Z is a positive number, the tabulation refers to electrons. F_0 is written as .166099 1, which means $F_0 = 0.166099 \times (10)^1$.

The prescription for obtaining $\sin (\Delta_{\kappa} - \Delta_{\kappa'})$ and $\cos (\Delta_{\kappa} - \Delta_{\kappa'})$, when $\kappa = -\kappa'$, and $|\kappa| \neq |\kappa'|$ is given below. For β^- emission, the following formulas should be used:

$$|\kappa| \neq |\kappa'| \quad \left\{ \begin{array}{l} \cos (\Delta_{\kappa} - \Delta_{\kappa'}) = - \frac{1 + \tan \Delta_{\kappa} \tan \Delta_{\kappa'}}{\left[(1 + \tan^2 \Delta_{\kappa}) (1 + \tan^2 \Delta_{\kappa'}) \right]^{\frac{1}{2}}} \\ \sin (\Delta_{\kappa} - \Delta_{\kappa'}) = - \frac{\tan \Delta_{\kappa} - \tan \Delta_{\kappa'}}{\left[(1 + \tan^2 \Delta_{\kappa}) (1 + \tan^2 \Delta_{\kappa'}) \right]^{\frac{1}{2}}} \end{array} \right.$$

$$|\kappa| = |\kappa'| \quad \left\{ \begin{array}{l} \cos (\Delta_{\kappa} - \Delta_{\kappa'}) = + \frac{1 + \tan \Delta_{\kappa} \tan \Delta_{\kappa'}}{\left[(1 + \tan^2 \Delta_{\kappa}) (1 + \tan^2 \Delta_{\kappa'}) \right]^{\frac{1}{2}}} \\ \sin (\Delta_{\kappa} - \Delta_{\kappa'}) = + \frac{\tan \Delta_{\kappa} - \tan \Delta_{\kappa'}}{\left[(1 + \tan^2 \Delta_{\kappa}) (1 + \tan^2 \Delta_{\kappa'}) \right]^{\frac{1}{2}}} \end{array} \right.$$

For β^+ particles, the following formulas should be used

$$\cos (\Delta_{\kappa} - \Delta_{\kappa'}) = \frac{1 + \tan \Delta_{\kappa} \tan \Delta_{\kappa'}}{\left[(1 + \tan^2 \Delta_{\kappa}) (1 + \tan^2 \Delta_{\kappa'}) \right]^{\frac{1}{2}}}$$

$$\sin (\Delta_{\kappa} - \Delta_{\kappa'}) = \frac{\tan \Delta_{\kappa} - \tan \Delta_{\kappa'}}{\left[(1 + \tan^2 \Delta_{\kappa}) (1 + \tan^2 \Delta_{\kappa'}) \right]^{\frac{1}{2}}}$$

For β^+ emission, whenever $\tan \Delta_{-1}$ is negative, the square root of $1 + \tan^2 \Delta_{-1}$ should be taken as negative.

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ELECTRONS

Z = 9, A = 19

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁				
.4	.171017	1	-.141677	-.454118 - 2	-.652614 - 1	-.192122 - 1	.724984	-.102161	2		
.6	.149877	1	-.278749	-.900385 - 2	-.414586 - 1	-.267241 - 1	.999109	-.147716	2		
.8	.140668	1	-.445298	-.145252 - 1	-.294665 - 1	-.342013 - 1	.126362	1	-.190464	2	
1.0	.135765	1	-.631382	-.208295 - 1	-.221889 - 1	-.416830 - 1	.151921	1	-.230282	2	
1.2	.132832	1	-.830014	-.277236 - 1	-.172814 - 1	-.492206 - 1	.176746	1	-.267281	2	
1.4	.130935	1	-.103665	1	-.350822 - 1	-.137392 - 1	-.568604 - 1	.201001	1	-.301651	2
1.6	.129636	1	-.124842	1	-.428264 - 1	-.110582 - 1	-.646390 - 1	.224823	1	-.333608	2
1.8	.128705	1	-.146354	1	-.509071 - 1	-.895643 - 2	-.725835 - 1	.248317	1	-.363366	2
2.0	.128013	1	-.168086	1	-.592934 - 1	-.726352 - 2	-.807139 - 1	.271561	1	-.391125	2
2.2	.127484	1	-.189966	1	-.679654 - 1	-.587027 - 2	-.890443 - 1	.294613	1	-.417070	2
2.4	.127068	1	-.211945	1	-.769102 - 1	-.470334 - 2	-.975853 - 1	.317515	1	-.441365	2
2.6	.126736	1	-.233993	1	-.861192 - 1	-.371160 - 2	-.106344	.340297	1	-.464160	2
2.8	.126464	1	-.256086	1	-.955865 - 1	-.285828 - 2	-.115327	.362984	1	-.485586	2
3.0	.126238	1	-.278212	1	-.105308	-.211627 - 2	-.124538	.385592	1	-.505761	2
3.2	.126049	1	-.300358	1	-.115281	-.146512 - 2	-.133979	.408135	1	-.524793	2
3.4	.125887	1	-.322518	1	-.125504	-.889098 - 3	-.143654	.430624	1	-.542774	2
3.6	.125748	1	-.344685	1	-.135975	-.375925 - 3	-.153565	.453067	1	-.559790	2
3.8	.125626	1	-.366857	1	-.146692	.841422 - 4	-.163712	.475470	1	-.575917	2
4.0	.125520	1	-.389031	1	-.157656	.498919 - 3	-.174097	.497838	1	-.591223	2
4.2	.125425	1	-.411203	1	-.168865	.874768 - 3	-.184720	.520175	1	-.605770	2
4.4	.125341	1	-.433373	1	-.180318	.121690 - 2	-.195583	.542485	1	-.619613	2
4.6	.125266	1	-.455539	1	-.192017	.152965 - 2	-.206686	.564771	1	-.632804	2
4.8	.125197	1	-.477700	1	-.203959	.181662 - 2	-.218030	.587035	1	-.645388	2
5.0	.125135	1	-.499856	1	-.216146	.208086 - 2	-.229614	.609278	1	-.657407	2
5.2	.125079	1	-.522005	1	-.228576	.232494 - 2	-.241440	.631503	1	-.668899	2
5.4	.125027	1	-.544148	1	-.241250	.255107 - 2	-.253506	.653710	1	-.679899	2
5.6	.124978	1	-.566285	1	-.254167	.276115 - 2	-.265814	.675901	1	-.690438	2
5.8	.124934	1	-.588413	1	-.267327	.295681 - 2	-.278364	.698076	1	-.700546	2
6.0	.124893	1	-.610535	1	-.280730	.313947 - 2	-.291155	.720237	1	-.710249	2
6.2	.124854	1	-.632649	1	-.294376	.331036 - 2	-.304188	.742384	1	-.719573	2

Z = 9, A = 19

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.482340 - 1	-.156965 - 3	-.289988 - 5	.626041 1	-.122976 - 4	.812051 - 3	-.766311 - 1
.6	.416914 - 1	-.462597 - 3	-.861506 - 5	.892725 1	-.254940 - 4	.166710 - 2	-.569356 - 1
.8	.389511 - 1	-.985031 - 3	-.185323 - 4	.111377 2	-.434285 - 4	.280490 - 2	-.485575 - 1
1.0	.375207 - 1	-.174581 - 2	-.332342 - 4	.129289 2	-.661410 - 4	.421128 - 2	-.443939 - 1
1.2	.366765 - 1	-.275431 - 2	-.531109 - 4	.143689 2	-.937457 - 4	.587674 - 2	-.421485 - 1
1.4	.361362 - 1	-.401386 - 2	-.784581 - 4	.155282 2	-.126411 - 3	.779549 - 2	-.408808 - 1
1.6	.357694 - 1	-.552517 - 2	-.109531 - 3	.164679 2	-.164340 - 3	.996418 - 2	-.401497 - 1
1.8	.355090 - 1	-.728794 - 2	-.146569 - 3	.172369 2	-.207755 - 3	.123809 - 1	-.397290 - 1
2.0	.353173 - 1	-.930151 - 2	-.189807 - 3	.178729 2	-.256889 - 3	.150447 - 1	-.394946 - 1
2.2	.351719 - 1	-.115652 - 1	-.239479 - 3	.184046 2	-.311981 - 3	.179548 - 1	-.393754 - 1
2.4	.350590 - 1	-.140783 - 1	-.295821 - 3	.188536 2	-.373274 - 3	.211110 - 1	-.393286 - 1
2.6	.349693 - 1	-.168403 - 1	-.359069 - 3	.192366 2	-.441012 - 3	.245130 - 1	-.393280 - 1
2.8	.348969 - 1	-.198508 - 1	-.429462 - 3	.195661 2	-.515440 - 3	.281608 - 1	-.393569 - 1
3.0	.348374 - 1	-.231092 - 1	-.507240 - 3	.198521 2	-.596804 - 3	.320542 - 1	-.394045 - 1
3.2	.347878 - 1	-.266154 - 1	-.592642 - 3	.201021 2	-.685348 - 3	.361933 - 1	-.394637 - 1
3.4	.347461 - 1	-.303690 - 1	-.685911 - 3	.203222 2	-.781320 - 3	.405780 - 1	-.395298 - 1
3.6	.347105 - 1	-.343697 - 1	-.787287 - 3	.205173 2	-.884964 - 3	.452083 - 1	-.395997 - 1
3.8	.346799 - 1	-.386174 - 1	-.897014 - 3	.206912 2	-.996525 - 3	.500841 - 1	-.396712 - 1
4.0	.346533 - 1	-.431118 - 1	-.101533 - 2	.208471 2	-.111625 - 2	.552054 - 1	-.397428 - 1
4.2	.346301 - 1	-.478528 - 1	-.114249 - 2	.209875 2	-.124438 - 2	.605722 - 1	-.398136 - 1
4.4	.346096 - 1	-.528402 - 1	-.127873 - 2	.211146 2	-.138117 - 2	.661844 - 1	-.398830 - 1
4.6	.345914 - 1	-.580740 - 1	-.142428 - 2	.212301 2	-.152685 - 2	.720420 - 1	-.399506 - 1
4.8	.345751 - 1	-.635539 - 1	-.157941 - 2	.213354 2	-.168168 - 2	.781449 - 1	-.400161 - 1
5.0	.345605 - 1	-.692799 - 1	-.174434 - 2	.214319 2	-.184590 - 2	.844932 - 1	-.400794 - 1
5.2	.345473 - 1	-.752517 - 1	-.191932 - 2	.215205 2	-.201975 - 2	.910867 - 1	-.401403 - 1
5.4	.345353 - 1	-.814695 - 1	-.210460 - 2	.216022 2	-.220347 - 2	.979255 - 1	-.401990 - 1
5.6	.345244 - 1	-.879329 - 1	-.230043 - 2	.216777 2	-.239732 - 2	.105009	-.402554 - 1
5.8	.345144 - 1	-.946420 - 1	-.250703 - 2	.217477 2	-.260154 - 2	.112338	-.403095 - 1
6.0	.345053 - 1	-.101597	-.272466 - 2	.218127 2	-.281636 - 2	.119912	-.403615 - 1
6.2	.344968 - 1	-.108797	-.295356 - 2	.218733 2	-.304204 - 2	.127731	-.404114 - 1

Z = 10, A = 20

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.181103	1	-.146227		-.512926	- 2	-.721459	- 1	-.219464	- 1	.745762		-.918607	1
.6	.156830	1	-.285503		-.100867	- 1	-.456384	- 1	-.303219	- 1	.102162	1	-.132331	2
.8	.146290	1	-.454405		-.162010	- 1	-.323018	- 1	-.386486	- 1	.128812	1	-.170230	2
1.0	.140686	1	-.642953		-.231663	- 1	-.242121	- 1	-.469668	- 1	.154588	1	-.205438	2
1.2	.137337	1	-.844128		-.307680	- 1	-.187581	- 1	-.553308	- 1	.179646	1	-.238063	2
1.4	.135170	1	-.105336	1	-.388666	- 1	-.148219	- 1	-.637906	- 1	.204142	1	-.268290	2
1.6	.133685	1	-.126777	1	-.473745	- 1	-.118428	- 1	-.723860	- 1	.228213	1	-.296325	2
1.8	.132620	1	-.148554	1	-.562368	- 1	-.950735	- 2	-.811466	- 1	.251959	1	-.322368	2
2.0	.131827	1	-.170554	1	-.654189	- 1	-.762630	- 2	-.900942	- 1	.275460	1	-.346609	2
2.2	.131220	1	-.192702	1	-.748988	- 1	-.607823	- 2	-.992443	- 1	.298769	1	-.369219	2
2.4	.130743	1	-.214950	1	-.846618	- 1	-.478164	- 2	-.108608		.321930	1	-.390350	2
2.6	.130360	1	-.237266	1	-.946984	- 1	-.367971	- 2	-.118195		.344972	1	-.410140	2
2.8	.130047	1	-.259628	1	-.105002		-.273160	- 2	-.128009		.367919	1	-.428710	2
3.0	.129786	1	-.282021	1	-.115568		-.190717	- 2	-.138057		.390787	1	-.446168	2
3.2	.129567	1	-.304435	1	-.126393		-.118369	- 2	-.148341		.413590	1	-.462612	2
3.4	.129379	1	-.326861	1	-.137475		-.543696	- 3	-.158864		.436339	1	-.478126	2
3.6	.129217	1	-.349295	1	-.148813		.264620	- 4	-.169629		.459041	1	-.492787	2
3.8	.129076	1	-.371732	1	-.160405		.537606	- 3	-.180636		.481703	1	-.506665	2
4.0	.128951	1	-.394170	1	-.172249		.998430	- 3	-.191887		.504329	1	-.519821	2
4.2	.128841	1	-.416606	1	-.184346		.141599	- 2	-.203383		.526924	1	-.532310	2
4.4	.128742	1	-.439038	1	-.196695		.179609	- 2	-.215124		.549490	1	-.544183	2
4.6	.128653	1	-.461466	1	-.209295		.214354	- 2	-.227112		.572032	1	-.555484	2
4.8	.128573	1	-.483887	1	-.222146		.246233	- 2	-.239347		.594551	1	-.566255	2
5.0	.128500	1	-.506303	1	-.235248		.275587	- 2	-.251829		.617048	1	-.576533	2
5.2	.128433	1	-.528711	1	-.248600		.302701	- 2	-.264558		.639526	1	-.586352	2
5.4	.128371	1	-.551111	1	-.262202		.327820	- 2	-.277535		.661985	1	-.595742	2
5.6	.128314	1	-.573504	1	-.276054		.351155	- 2	-.290760		.684428	1	-.604732	2
5.8	.128261	1	-.595888	1	-.290156		.372887	- 2	-.304232		.706854	1	-.613348	2
6.0	.128212	1	-.618264	1	-.304507		.393175	- 2	-.317953		.729264	1	-.621613	2
6.2	.128166	1	-.640632	1	-.319108		.412155	- 2	-.331922		.751660	1	-.629550	2

Z = 10, A = 20

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.512584 - 1	-.164724 - 3	-.332802 - 5	.562945	1 -.143177 - 4	.851468 - 3	-.850394 - 1
.6	.436407 - 1	-.481596 - 3	-.980280 - 5	.804039	1 -.294342 - 4	.173485 - 2	-.630816 - 1
.8	.404791 - 1	-.102163 - 2	-.209934 - 4	.100393	2 -.499088 - 4	.290837 - 2	-.537548 - 1
1.0	.388360 - 1	-.180691 - 2	-.375390 - 4	.116599	2 -.757693 - 4	.435785 - 2	-.491223 - 1
1.2	.378685 - 1	-.284705 - 2	-.598617 - 4	.129633	2 -.107125 - 3	.607374 - 2	-.466246 - 1
1.4	.372499 - 1	-.414551 - 2	-.882764 - 4	.140131	2 -.144147 - 3	.805023 - 2	-.452147 - 1
1.6	.368303 - 1	-.570305 - 2	-.123052 - 3	.148644	2 -.187044 - 3	.102839 - 1	-.444016 - 1
1.8	.365324 - 1	-.751938 - 2	-.164439 - 3	.155613	2 -.236046 - 3	.127730 - 1	-.439337 - 1
2.0	.363130 - 1	-.959382 - 2	-.212682 - 3	.161378	2 -.291396 - 3	.155162 - 1	-.436731 - 1
2.2	.361466 - 1	-.119257 - 1	-.268027 - 3	.166198	2 -.353345 - 3	.185132 - 1	-.435404 - 1
2.4	.360172 - 1	-.145143 - 1	-.330718 - 3	.170269	2 -.422146 - 3	.217634 - 1	-.434884 - 1
2.6	.359144 - 1	-.173591 - 1	-.401004 - 3	.173742	2 -.498053 - 3	.252666 - 1	-.434877 - 1
2.8	.358313 - 1	-.204596 - 1	-.479134 - 3	.176731	2 -.581324 - 3	.290229 - 1	-.435198 - 1
3.0	.357630 - 1	-.238154 - 1	-.565357 - 3	.179324	2 -.672215 - 3	.330320 - 1	-.435726 - 1
3.2	.357060 - 1	-.274261 - 1	-.659924 - 3	.181593	2 -.770984 - 3	.372940 - 1	-.436384 - 1
3.4	.356580 - 1	-.312915 - 1	-.763089 - 3	.183590	2 -.877886 - 3	.418087 - 1	-.437119 - 1
3.6	.356170 - 1	-.354112 - 1	-.875102 - 3	.185360	2 -.993180 - 3	.465762 - 1	-.437895 - 1
3.8	.355817 - 1	-.397851 - 1	-.996219 - 3	.186938	2 -.111712 - 2	.515964 - 1	-.438689 - 1
4.0	.355510 - 1	-.444129 - 1	-.112669 - 2	.188353	2 -.124997 - 2	.568692 - 1	-.439486 - 1
4.2	.355241 - 1	-.492945 - 1	-.126678 - 2	.189627	2 -.139198 - 2	.623947 - 1	-.440273 - 1
4.4	.355003 - 1	-.544297 - 1	-.141673 - 2	.190780	2 -.154340 - 2	.681727 - 1	-.441044 - 1
4.6	.354792 - 1	-.598183 - 1	-.157679 - 2	.191828	2 -.170450 - 2	.742032 - 1	-.441795 - 1
4.8	.354603 - 1	-.654603 - 1	-.174723 - 2	.192784	2 -.187553 - 2	.804862 - 1	-.442523 - 1
5.0	.354434 - 1	-.713555 - 1	-.192830 - 2	.193660	2 -.205674 - 2	.870217 - 1	-.443226 - 1
5.2	.354280 - 1	-.775037 - 1	-.212026 - 2	.194464	2 -.224840 - 2	.938094 - 1	-.443904 - 1
5.4	.354140 - 1	-.839048 - 1	-.232335 - 2	.195206	2 -.245075 - 2	.100850	-.444556 - 1
5.6	.354013 - 1	-.905588 - 1	-.253783 - 2	.195891	2 -.266406 - 2	.108142	-.445183 - 1
5.8	.353896 - 1	-.974655 - 1	-.276396 - 2	.196526	2 -.288858 - 2	.115686	-.445785 - 1
6.0	.353788 - 1	-.104625	-.300199 - 2	.197117	2 -.312456 - 2	.123483	-.446362 - 1
6.2	.353689 - 1	-.112037	-.325217 - 2	.197667	2 -.337226 - 2	.131531	-.446917 - 1

Z = 11, A = 24

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁				
.4	.191643	1	-.150910	-.579058 - 2	-.789620 - 1	-.248192 - 1	.766799	-.834570	1		
.6	.164068	1	-.292419	-.112989 - 1	-.497313 - 1	-.340856 - 1	.104444	1	-.119759	2	
.8	.152129	1	-.463707	-.180769 - 1	-.350465 - 1	-.433004 - 1	.131295	1	-.153692	2	
1.0	.145791	1	-.654750	-.257875 - 1	-.261438 - 1	-.525059 - 1	.157292	1	-.185135	2	
1.2	.142004	1	-.858497	-.341939 - 1	-.201429 - 1	-.617599 - 1	.182582	1	-.214194	2	
1.4	.139553	1	-.107035	1	-.431421 - 1	-.158126 - 1	-.711158 - 1	.207322	1	-.241048	2
1.6	.137872	1	-.128742	1	-.525354 - 1	-.125353 - 1	-.806164 - 1	.231640	1	-.265893	2
1.8	.136666	1	-.150786	1	-.623129 - 1	-.996630 - 2	-.902937 - 1	.255640	1	-.288921	2
2.0	.135767	1	-.173054	1	-.724365 - 1	-.789714 - 2	-.100171	.279395	1	-.310309	2
2.2	.135077	1	-.195471	1	-.828815 - 1	-.619429 - 2	-.110266	.302961	1	-.330218	2
2.4	.134535	1	-.217988	1	-.936318 - 1	-.476809 - 2	-.120590	.326379	1	-.348791	2
2.6	.134098	1	-.240572	1	-.104677	-.355604 - 2	-.131152	.349678	1	-.366154	2
2.8	.133740	1	-.263202	1	-.116009	-.251320 - 2	-.141959	.372882	1	-.382421	2
3.0	.133442	1	-.285862	1	-.127623	-.160641 - 2	-.153016	.396008	1	-.397691	2
3.2	.133191	1	-.308541	1	-.139516	-.810691 - 3	-.164326	.419068	1	-.412052	2
3.4	.132975	1	-.331232	1	-.151685	-.106813 - 3	-.175894	.442072	1	-.425584	2
3.6	.132789	1	-.353929	1	-.164128	.520233 - 3	-.187719	.465029	1	-.438356	2
3.8	.132626	1	-.376628	1	-.176844	.108236 - 2	-.199805	.487944	1	-.450431	2
4.0	.132482	1	-.399326	1	-.189832	.158911 - 2	-.212153	.510823	1	-.461865	2
4.2	.132354	1	-.422021	1	-.203090	.204828 - 2	-.224763	.533669	1	-.472709	2
4.4	.132240	1	-.444711	1	-.216618	.246622 - 2	-.237637	.556486	1	-.483007	2
4.6	.132137	1	-.467395	1	-.230416	.284823 - 2	-.250775	.579276	1	-.492801	2
4.8	.132043	1	-.490071	1	-.244483	.319872 - 2	-.264178	.602042	1	-.502128	2
5.0	.131957	1	-.512740	1	-.258819	.352142 - 2	-.277845	.624786	1	-.511020	2
5.2	.131879	1	-.535400	1	-.273424	.381946 - 2	-.291778	.647508	1	-.519509	2
5.4	.131807	1	-.558050	1	-.288297	.409556 - 2	-.305976	.670211	1	-.527621	2
5.6	.131740	1	-.580692	1	-.303437	.435202 - 2	-.320440	.692895	1	-.535383	2
5.8	.131678	1	-.603323	1	-.318846	.459084 - 2	-.335170	.715562	1	-.542817	2
6.0	.131620	1	-.625945	1	-.334521	.481376 - 2	-.350166	.738211	1	-.549945	2
6.2	.131565	1	-.648556	1	-.350465	.502229 - 2	-.365427	.760845	1	-.556785	2

Z = 11, A = 24

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.544589 - 1	-.180574 - 3	-.398957 - 5	.511211 1	-.172450 - 4	.932517 - 3	-.934379 - 1
.6	.456795 - 1	-.523762 - 3	-.116560 - 4	.731411 1	-.351783 - 4	.188587 - 2	-.691946 - 1
.8	.420684 - 1	-.110692 - 2	-.248622 - 4	.914011 1	-.594131 - 4	.315025 - 2	-.589135 - 1
1.0	.401998 - 1	-.195368 - 2	-.443511 - 4	.106213 2	-.899791 - 4	.471084 - 2	-.538101 - 1
1.2	.391020 - 1	-.307436 - 2	-.706110 - 4	.118132 2	-.127000 - 3	.655760 - 2	-.510593 - 1
1.4	.384009 - 1	-.447270 - 2	-.104004 - 3	.127735 2	-.170668 - 3	.868444 - 2	-.495067 - 1
1.6	.379255 - 1	-.614955 - 2	-.144840 - 3	.135525 2	-.221223 - 3	.110878 - 1	-.486115 - 1
1.8	.375880 - 1	-.810459 - 2	-.193403 - 3	.141904 2	-.278926 - 3	.137657 - 1	-.480962 - 1
2.0	.373395 - 1	-.103371 - 1	-.249976 - 3	.147183 2	-.344054 - 3	.167169 - 1	-.478092 - 1
2.2	.371509 - 1	-.128464 - 1	-.314836 - 3	.151597 2	-.416894 - 3	.199409 - 1	-.476631 - 1
2.4	.370042 - 1	-.156317 - 1	-.388264 - 3	.155326 2	-.497735 - 3	.234372 - 1	-.476058 - 1
2.6	.368875 - 1	-.186925 - 1	-.470542 - 3	.158507 2	-.586867 - 3	.272056 - 1	-.476049 - 1
2.8	.367931 - 1	-.220282 - 1	-.561955 - 3	.161246 2	-.684584 - 3	.312459 - 1	-.476402 - 1
3.0	.367154 - 1	-.256383 - 1	-.662788 - 3	.163623 2	-.791179 - 3	.355582 - 1	-.476983 - 1
3.2	.366506 - 1	-.295224 - 1	-.773328 - 3	.165701 2	-.906944 - 3	.401422 - 1	-.477707 - 1
3.4	.365959 - 1	-.336803 - 1	-.893861 - 3	.167532 2	-.103217 - 2	.449980 - 1	-.478515 - 1
3.6	.365492 - 1	-.381116 - 1	-.102468 - 2	.169154 2	-.116716 - 2	.501254 - 1	-.479370 - 1
3.8	.365088 - 1	-.428161 - 1	-.116607 - 2	.170601 2	-.131220 - 2	.555245 - 1	-.480243 - 1
4.0	.364737 - 1	-.477936 - 1	-.131831 - 2	.171897 2	-.146758 - 2	.611951 - 1	-.481119 - 1
4.2	.364429 - 1	-.530438 - 1	-.148171 - 2	.173066 2	-.163360 - 2	.671372 - 1	-.481986 - 1
4.4	.364157 - 1	-.585665 - 1	-.165655 - 2	.174123 2	-.181055 - 2	.733508 - 1	-.482834 - 1
4.6	.363915 - 1	-.643617 - 1	-.184312 - 2	.175084 2	-.199871 - 2	.798357 - 1	-.483661 - 1
4.8	.363697 - 1	-.704291 - 1	-.204172 - 2	.175960 2	-.219840 - 2	.865919 - 1	-.484462 - 1
5.0	.363502 - 1	-.767685 - 1	-.225262 - 2	.176763 2	-.240988 - 2	.936194 - 1	-.485235 - 1
5.2	.363325 - 1	-.833799 - 1	-.247612 - 2	.177501 2	-.263347 - 2	.100918	-.485981 - 1
5.4	.363164 - 1	-.902630 - 1	-.271252 - 2	.178180 2	-.286944 - 2	.108488	-.486699 - 1
5.6	.363016 - 1	-.974179 - 1	-.296210 - 2	.178809 2	-.311809 - 2	.116328	-.487388 - 1
5.8	.362881 - 1	-.104844	-.322515 - 2	.179391 2	-.337972 - 2	.124440	-.488050 - 1
6.0	.362757 - 1	-.112542	-.350197 - 2	.179933 2	-.365461 - 2	.132822	-.488686 - 1
6.2	.362641 - 1	-.120511	-.379284 - 2	.180437 2	-.394305 - 2	.141475	-.489297 - 1

Z = 12, A = 24

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.202781	1	-.155785	-.643366 - 2	-.857110 - 1	-.278261 - 1	.788413	-.764748 1
.6	.171714	1	-.299616	-.124540 - 1	-.537368 - 1	-.379808 - 1	.106801	1 -.109294 2
.8	.158296	1	-.473392	-.198403 - 1	-.376998 - 1	-.480675 - 1	.133869	1 -.139924 2
1.0	.151181	1	-.667044	-.282246 - 1	-.279829 - 1	-.581297 - 1	.160101	1 -.168236 2
1.2	.146931	1	-.873482	-.373481 - 1	-.214348 - 1	-.682278 - 1	.185639	1 -.194333 2
1.4	.144181	1	-.108808	1 -.470428 - 1	-.167102 - 1	-.784184 - 1	.210635	1 -.218388 2
1.6	.142293	1	-.130793	1 -.572025 - 1	-.131347 - 1	-.887471 - 1	.235217	1 -.240592 2
1.8	.140936	1	-.153119	1 -.677609 - 1	-.103320 - 1	-.992483 - 1	.259483	1 -.261125 2
2.0	.139925	1	-.175669	1 -.786757 - 1	-.807466 - 2	-.109947	.283508	1 -.280156 2
2.2	.139148	1	-.198368	1 -.899200 - 1	-.621697 - 2	-.120861	.307345	1 -.297836 2
2.4	.138535	1	-.221168	1 -.101476	-.466109 - 2	-.132005	.331036	1 -.314300 2
2.6	.138041	1	-.244035	1 -.113332	-.333884 - 2	-.143386	.354609	1 -.329664 2
2.8	.137636	1	-.266947	1 -.125480	-.220119 - 2	-.155014	.378086	1 -.344035 2
3.0	.137298	1	-.289888	1 -.137915	-.121198 - 2	-.166893	.401485	1 -.357505 2
3.2	.137011	1	-.312848	1 -.150632	-.343922 - 3	-.179026	.424817	1 -.370156 2
3.4	.136766	1	-.335819	1 -.163628	.423934 - 3	-.191418	.448094	1 -.382060 2
3.6	.136553	1	-.358796	1 -.176901	.110797 - 2	-.204070	.471323	1 -.393282 2
3.8	.136367	1	-.381773	1 -.190451	.172118 - 2	-.216985	.494509	1 -.403879 2
4.0	.136202	1	-.404749	1 -.204275	.227399 - 2	-.230163	.517659	1 -.413902 2
4.2	.136055	1	-.427720	1 -.218373	.277488 - 2	-.243606	.540775	1 -.423398 2
4.4	.135924	1	-.450685	1 -.232743	.323079 - 2	-.257315	.563861	1 -.432407 2
4.6	.135805	1	-.473643	1 -.247386	.364750 - 2	-.271290	.586919	1 -.440966 2
4.8	.135696	1	-.496593	1 -.262301	.402983 - 2	-.285532	.609952	1 -.449110 2
5.0	.135597	1	-.519534	1 -.277487	.438182 - 2	-.300041	.632962	1 -.456868 2
5.2	.135507	1	-.542465	1 -.292945	.470693 - 2	-.314818	.655950	1 -.464267 2
5.4	.135423	1	-.565386	1 -.308673	.500809 - 2	-.329862	.678917	1 -.471334 2
5.6	.135345	1	-.588296	1 -.324672	.528783 - 2	-.345175	.701865	1 -.478090 2
5.8	.135272	1	-.611195	1 -.340941	.554832 - 2	-.360756	.724794	1 -.484556 2
6.0	.135205	1	-.634084	1 -.357480	.579146 - 2	-.376605	.747705	1 -.490751 2
6.2	.135141	1	-.656961	1 -.374289	.601890 - 2	-.392723	.770599	1 -.496693 2

Z = 12, A = 24

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.578634 - 1	-.186301 - 3	-.442719 - 5	.468000	1	-.193786 - 4	.961110 - 3	-.101830
.6	.478270 - 1	-.536136 - 3	-.128267 - 4	.670825	1	-.392131 - 4	.192946 - 2	-.752752 - 1
.8	.437354 - 1	-.112886 - 2	-.272400 - 4	.839043	1	-.659343 - 4	.321168 - 2	-.640338 - 1
1.0	.416272 - 1	-.198826 - 2	-.484565 - 4	.975558	1	-.995550 - 4	.479315 - 2	-.584574 - 1
1.2	.403913 - 1	-.312478 - 2	-.769875 - 4	.108546	2	-.140188 - 3	.666400 - 2	-.554526 - 1
1.4	.396030 - 1	-.454222 - 2	-.113207 - 3	.117405	2	-.188022 - 3	.881818 - 2	-.537569 - 1
1.6	.390687 - 1	-.624146 - 2	-.157429 - 3	.124593	2	-.243293 - 3	.112522 - 1	-.527792 - 1
1.8	.386895 - 1	-.822221 - 2	-.209943 - 3	.130482	2	-.306264 - 3	.139640 - 1	-.522165 - 1
2.0	.384101 - 1	-.104838 - 1	-.271032 - 3	.135355	2	-.377215 - 3	.169525 - 1	-.519030 - 1
2.2	.381980 - 1	-.130254 - 1	-.340979 - 3	.139432	2	-.456433 - 3	.202170 - 1	-.517434 - 1
2.4	.380329 - 1	-.158464 - 1	-.420065 - 3	.142876	2	-.544210 - 3	.237572 - 1	-.516807 - 1
2.6	.379016 - 1	-.189461 - 1	-.508575 - 3	.145815	2	-.640841 - 3	.275727 - 1	-.516797 - 1
2.8	.377952 - 1	-.223240 - 1	-.606796 - 3	.148345	2	-.746622 - 3	.316636 - 1	-.517181 - 1
3.0	.377076 - 1	-.259797 - 1	-.715016 - 3	.150541	2	-.861849 - 3	.360295 - 1	-.517815 - 1
3.2	.376344 - 1	-.299127 - 1	-.833525 - 3	.152462	2	-.986819 - 3	.406706 - 1	-.518605 - 1
3.4	.375725 - 1	-.341227 - 1	-.962612 - 3	.154154	2	-.112183 - 2	.455866 - 1	-.519487 - 1
3.6	.375196 - 1	-.386094 - 1	-.110257 - 2	.155654	2	-.126717 - 2	.507775 - 1	-.520419 - 1
3.8	.374740 - 1	-.433725 - 1	-.125369 - 2	.156991	2	-.142315 - 2	.562433 - 1	-.521372 - 1
4.0	.374341 - 1	-.484119 - 1	-.141626 - 2	.158189	2	-.159005 - 2	.619839 - 1	-.522328 - 1
4.2	.373992 - 1	-.537272 - 1	-.159058 - 2	.159269	2	-.176818 - 2	.679992 - 1	-.523273 - 1
4.4	.373682 - 1	-.593183 - 1	-.177694 - 2	.160247	2	-.195783 - 2	.742891 - 1	-.524200 - 1
4.6	.373406 - 1	-.651850 - 1	-.197563 - 2	.161135	2	-.215930 - 2	.808536 - 1	-.525101 - 1
4.8	.373159 - 1	-.713271 - 1	-.218695 - 2	.161945	2	-.237287 - 2	.876926 - 1	-.525976 - 1
5.0	.372935 - 1	-.777445 - 1	-.241119 - 2	.162688	2	-.259885 - 2	.948060 - 1	-.526820 - 1
5.2	.372733 - 1	-.844370 - 1	-.264864 - 2	.163370	2	-.283754 - 2	.102194	-.527633 - 1
5.4	.372548 - 1	-.914045 - 1	-.289960 - 2	.163998	2	-.308922 - 2	.109856	-.528416 - 1
5.6	.372380 - 1	-.986468 - 1	-.316436 - 2	.164580	2	-.335418 - 2	.117792	-.529169 - 1
5.8	.372225 - 1	-.106164	-.344321 - 2	.165118	2	-.363274 - 2	.126002	-.529892 - 1
6.0	.372081 - 1	-.113955	-.373645 - 2	.165619	2	-.392517 - 2	.134486	-.530586 - 1
6.2	.371949 - 1	-.122021	-.404437 - 2	.166085	2	-.423178 - 2	.143244	-.531252 - 1

Z = 13, A = 27

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.214407	1	-.160799		-.715186	- 2	-.923938	- 1	-.309777	- 1	.810272		-.705855	1
.6	.179671	1	-.306983		-.137393	- 1	-.576543	- 1	-.420493	- 1	.109190	1	-.100451	2
.8	.164699	1	-.483279		-.218028	- 1	-.402610	- 1	-.530465	- 1	.136477	1	-.128286	2
1.0	.156769	1	-.679569		-.309425	- 1	-.297287	- 1	-.640156	- 1	.162946	1	-.153954	2
1.2	.152033	1	-.888724		-.408773	- 1	-.226330	- 1	-.750198	- 1	.188732	1	-.177555	2
1.4	.148968	1	-.110610	1	-.514242	- 1	-.175139	- 1	-.861189	- 1	.213985	1	-.199257	2
1.6	.146862	1	-.132874	1	-.624676	- 1	-.136402	- 1	-.973611	- 1	.238829	1	-.219241	2
1.8	.145347	1	-.155482	1	-.739352	- 1	-.106038	- 1	-.108783		.263362	1	-.237681	2
2.0	.144217	1	-.178315	1	-.857809	- 1	-.815834	- 2	-.120411		.287655	1	-.254738	2
2.2	.143346	1	-.201297	1	-.979754	- 1	-.614586	- 2	-.132265		.311762	1	-.270553	2
2.4	.142659	1	-.224379	1	-.110499		-.446036	- 2	-.144359		.335723	1	-.285254	2
2.6	.142105	1	-.247528	1	-.123339		-.302798	- 2	-.156702		.359566	1	-.298952	2
2.8	.141649	1	-.270721	1	-.136487		-.179560	- 2	-.169304		.383314	1	-.311744	2
3.0	.141268	1	-.293943	1	-.149936		-.724034	- 3	-.182168		.406982	1	-.323717	2
3.2	.140944	1	-.317181	1	-.163682		.216263	- 3	-.195300		.430584	1	-.334947	2
3.4	.140667	1	-.340430	1	-.177722		.104800	- 2	-.208703		.454128	1	-.345501	2
3.6	.140426	1	-.363682	1	-.192053		.178893	- 2	-.222379		.477624	1	-.355438	2
3.8	.140214	1	-.386934	1	-.206674		.245311	- 2	-.236330		.501076	1	-.364811	2
4.0	.140027	1	-.410183	1	-.221584		.305185	- 2	-.250558		.524489	1	-.373668	2
4.2	.139859	1	-.433425	1	-.236781		.359433	- 2	-.265064		.547868	1	-.382051	2
4.4	.139709	1	-.456661	1	-.252264		.408808	- 2	-.279848		.571216	1	-.389996	2
4.6	.139573	1	-.479887	1	-.268033		.453935	- 2	-.294912		.594535	1	-.397539	2
4.8	.139449	1	-.503104	1	-.284088		.495336	- 2	-.310256		.617827	1	-.404710	2
5.0	.139335	1	-.526309	1	-.300428		.533450	- 2	-.325880		.641094	1	-.411536	2
5.2	.139231	1	-.549504	1	-.317052		.568651	- 2	-.341785		.664338	1	-.418042	2
5.4	.139134	1	-.572687	1	-.333960		.601256	- 2	-.357971		.687560	1	-.424251	2
5.6	.139044	1	-.595857	1	-.351152		.631539	- 2	-.374438		.710761	1	-.430184	2
5.8	.138961	1	-.619016	1	-.368627		.659736	- 2	-.391187		.733941	1	-.435859	2
6.0	.138882	1	-.642161	1	-.386386		.686053	- 2	-.408217		.757102	1	-.441293	2
6.2	.138809	1	-.665294	1	-.404428		.710668	- 2	-.425528		.780245	1	-.446502	2

Z = 13, A = 27

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.614644 - 1	-.199893 - 3	-.511401 - 5	.431344	1	-.224952 - 4	.103008 - 2	-.110218
.6	.500728 - 1	-.570774 - 3	-.146979 - 4	.619504	1	-.451770 - 4	.205299 - 2	-.813244 - 1
.8	.454691 - 1	-.119733 - 2	-.310892 - 4	.775571	1	-.756661 - 4	.340533 - 2	-.691159 - 1
1.0	.431070 - 1	-.210450 - 2	-.551711 - 4	.902282	1	-.113972 - 3	.507212 - 2	-.630642 - 1
1.2	.417252 - 1	-.330323 - 2	-.875124 - 4	.100434	2	-.160215 - 3	.704323 - 2	-.598043 - 1
1.4	.408449 - 1	-.479756 - 2	-.128526 - 3	.108663	2	-.214599 - 3	.931243 - 2	-.579650 - 1
1.6	.402486 - 1	-.658843 - 2	-.178558 - 3	.115344	2	-.277380 - 3	.118761 - 1	-.569045 - 1
1.8	.398253 - 1	-.867553 - 2	-.237925 - 3	.120818	2	-.348846 - 3	.147322 - 1	-.562942 - 1
2.0	.395135 - 1	-.110582 - 1	-.306938 - 3	.125349	2	-.429302 - 3	.178794 - 1	-.559542 - 1
2.2	.392767 - 1	-.137356 - 1	-.385903 - 3	.129140	2	-.519062 - 3	.213172 - 1	-.557810 - 1
2.4	.390922 - 1	-.167069 - 1	-.475129 - 3	.132344	2	-.618446 - 3	.250452 - 1	-.557130 - 1
2.6	.389453 - 1	-.199717 - 1	-.574929 - 3	.135078	2	-.727775 - 3	.290629 - 1	-.557118 - 1
2.8	.388262 - 1	-.235292 - 1	-.685613 - 3	.137433	2	-.847373 - 3	.333704 - 1	-.557534 - 1
3.0	.387281 - 1	-.273789 - 1	-.807499 - 3	.139476	2	-.977565 - 3	.379674 - 1	-.558220 - 1
3.2	.386461 - 1	-.315205 - 1	-.940901 - 3	.141264	2	-.111867 - 2	.428538 - 1	-.559076 - 1
3.4	.385766 - 1	-.359536 - 1	-.108614 - 2	.142839	2	-.127102 - 2	.480296 - 1	-.560031 - 1
3.6	.385172 - 1	-.406779 - 1	-.124352 - 2	.144234	2	-.143494 - 2	.534947 - 1	-.561041 - 1
3.8	.384658 - 1	-.456930 - 1	-.141338 - 2	.145479	2	-.161074 - 2	.592490 - 1	-.562074 - 1
4.0	.384210 - 1	-.509987 - 1	-.159603 - 2	.146595	2	-.179876 - 2	.652924 - 1	-.563110 - 1
4.2	.383815 - 1	-.565948 - 1	-.179179 - 2	.147600	2	-.199932 - 2	.716248 - 1	-.564135 - 1
4.4	.383466 - 1	-.624810 - 1	-.200098 - 2	.148510	2	-.221273 - 2	.782461 - 1	-.565138 - 1
4.6	.383154 - 1	-.686571 - 1	-.222392 - 2	.149337	2	-.243933 - 2	.851562 - 1	-.566116 - 1
4.8	.382874 - 1	-.751230 - 1	-.246094 - 2	.150092	2	-.267944 - 2	.923551 - 1	-.567063 - 1
5.0	.382621 - 1	-.818785 - 1	-.271234 - 2	.150783	2	-.293337 - 2	.998426 - 1	-.567978 - 1
5.2	.382391 - 1	-.889233 - 1	-.297846 - 2	.151418	2	-.320145 - 2	.107619	-.568860 - 1
5.4	.382181 - 1	-.962573 - 1	-.325960 - 2	.152004	2	-.348401 - 2	.115683	-.569708 - 1
5.6	.381989 - 1	-.103880	-.355611 - 2	.152545	2	-.378136 - 2	.124036	-.570524 - 1
5.8	.381813 - 1	-.111792	-.386828 - 2	.153047	2	-.409382 - 2	.132677	-.571307 - 1
6.0	.381649 - 1	-.119993	-.419645 - 2	.153513	2	-.442173 - 2	.141606	-.572060 - 1
6.2	.381498 - 1	-.128482	-.454093 - 2	.153947	2	-.476539 - 2	.150823	-.572782 - 1

Z = 14, A = 29

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.226626	1	-.165995		-.789530	- 2	-.990117	- 1	-.342745	- 1	.832585		-.655545	1
.6	.188025	1	-.314598		-.150534	- 1	-.614833	- 1	-.462767	- 1	.111639	1	-.928809	1
.8	.171416	1	-.493491		-.237945	- 1	-.427290	- 1	-.581940	- 1	.139156	1	-.118322	2
1.0	.162627	1	-.692500		-.336869	- 1	-.313801	- 1	-.700763	- 1	.165870	1	-.141729	2
1.2	.157379	1	-.904459		-.444266	- 1	-.237365	- 1	-.819895	- 1	.191915	1	-.163199	2
1.4	.153981	1	-.112469	1	-.558158	- 1	-.182227	- 1	-.939964	- 1	.217433	1	-.182894	2
1.6	.151645	1	-.135022	1	-.677294	- 1	-.140507	- 1	-.106148		.242549	1	-.200989	2
1.8	.149963	1	-.157920	1	-.800888	- 1	-.107806	- 1	-.118483		.267356	1	-.217650	2
2.0	.148706	1	-.181044	1	-.928442	- 1	-.814698	- 2	-.131028		.291926	1	-.233031	2
2.2	.147737	1	-.204318	1	-.105964		-.597969	- 2	-.143806		.316311	1	-.247266	2
2.4	.146971	1	-.227691	1	-.119426		-.416456	- 2	-.156830		.340551	1	-.260475	2
2.6	.146352	1	-.251131	1	-.133217		-.262204	- 2	-.170112		.364672	1	-.272763	2
2.8	.145842	1	-.274613	1	-.147328		-.129490	- 2	-.183660		.388698	1	-.284222	2
3.0	.145415	1	-.298123	1	-.161751		-.140968	- 3	-.197479		.412644	1	-.294932	2
3.2	.145052	1	-.321649	1	-.176481		.871589	- 3	-.211574		.436523	1	-.304963	2
3.4	.144739	1	-.345183	1	-.191516		.176723	- 2	-.225948		.460343	1	-.314380	2
3.6	.144468	1	-.368720	1	-.206853		.256506	- 2	-.240605		.484114	1	-.323236	2
3.8	.144229	1	-.392254	1	-.222489		.328024	- 2	-.255545		.507839	1	-.331581	2
4.0	.144017	1	-.415784	1	-.238424		.392493	- 2	-.270772		.531526	1	-.339458	2
4.2	.143827	1	-.439307	1	-.254655		.450902	- 2	-.286285		.555176	1	-.346906	2
4.4	.143657	1	-.462820	1	-.271183		.504063	- 2	-.302086		.578794	1	-.353960	2
4.6	.143502	1	-.486323	1	-.288007		.552647	- 2	-.318176		.602381	1	-.360651	2
4.8	.143361	1	-.509815	1	-.305125		.597219	- 2	-.334555		.625940	1	-.367007	2
5.0	.143231	1	-.533294	1	-.322538		.638250	- 2	-.351224		.649474	1	-.373052	2
5.2	.143112	1	-.556761	1	-.340244		.676142	- 2	-.368182		.672982	1	-.378810	2
5.4	.143001	1	-.580214	1	-.358245		.711239	- 2	-.385431		.696467	1	-.384302	2
5.6	.142898	1	-.603653	1	-.376538		.743834	- 2	-.402970		.719929	1	-.389546	2
5.8	.142802	1	-.627079	1	-.395124		.774182	- 2	-.420800		.743369	1	-.394559	2
6.0	.142712	1	-.650490	1	-.414003		.802504	- 2	-.438920		.766789	1	-.399357	2
6.2	.142628	1	-.673886	1	-.433174		.828992	- 2	-.457331		.790188	1	-.403954	2

Z = 14, A = 29

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.652853 - 1	-.211203 - 3	-.577601 - 5	.399838 1	-.255588 - 4	.108705 - 2	-.118605
.6	.524317 - 1	-.598409 - 3	-.164678 - 4	.575461 1	-.509456 - 4	.215111 - 2	-.873427 - 1
.8	.472815 - 1	-.125067 - 2	-.346924 - 4	.721133 1	-.849921 - 4	.355570 - 2	-.741601 - 1
1.0	.446500 - 1	-.219371 - 2	-.614139 - 4	.839452 1	-.127700 - 3	.528572 - 2	-.676306 - 1
1.2	.431139 - 1	-.343886 - 2	-.972489 - 4	.934791 1	-.179192 - 3	.733090 - 2	-.641145 - 1
1.4	.421365 - 1	-.499031 - 2	-.142641 - 3	.101170 2	-.239678 - 3	.968494 - 2	-.621310 - 1
1.6	.414747 - 1	-.684907 - 2	-.197959 - 3	.107416 2	-.309430 - 3	.123442 - 1	-.609876 - 1
1.8	.410050 - 1	-.901484 - 2	-.263540 - 3	.112535 2	-.388750 - 3	.153064 - 1	-.603294 - 1
2.0	.406589 - 1	-.114869 - 1	-.339712 - 3	.116774 2	-.477962 - 3	.185706 - 1	-.599628 - 1
2.2	.403959 - 1	-.142644 - 1	-.426801 - 3	.120321 2	-.577397 - 3	.221358 - 1	-.597760 - 1
2.4	.401909 - 1	-.173467 - 1	-.525133 - 3	.123319 2	-.687396 - 3	.260018 - 1	-.597025 - 1
2.6	.400276 - 1	-.207329 - 1	-.635040 - 3	.125878 2	-.808298 - 3	.301682 - 1	-.597011 - 1
2.8	.398951 - 1	-.244226 - 1	-.756851 - 3	.128082 2	-.940448 - 3	.346348 - 1	-.597458 - 1
3.0	.397858 - 1	-.284152 - 1	-.890900 - 3	.129995 2	-.108419 - 2	.394015 - 1	-.598198 - 1
3.2	.396944 - 1	-.327102 - 1	-.103752 - 2	.131669 2	-.123986 - 2	.444682 - 1	-.599119 - 1
3.4	.396169 - 1	-.373073 - 1	-.119705 - 2	.133143 2	-.140781 - 2	.498347 - 1	-.600148 - 1
3.6	.395505 - 1	-.422061 - 1	-.136983 - 2	.134450 2	-.158839 - 2	.555010 - 1	-.601236 - 1
3.8	.394930 - 1	-.474063 - 1	-.155619 - 2	.135616 2	-.178192 - 2	.614669 - 1	-.602349 - 1
4.0	.394428 - 1	-.529076 - 1	-.175648 - 2	.136661 2	-.198877 - 2	.677324 - 1	-.603465 - 1
4.2	.393986 - 1	-.587097 - 1	-.197102 - 2	.137603 2	-.220926 - 2	.742973 - 1	-.604568 - 1
4.4	.393594 - 1	-.648125 - 1	-.220017 - 2	.138455 2	-.244375 - 2	.811616 - 1	-.605650 - 1
4.6	.393243 - 1	-.712156 - 1	-.244425 - 2	.139230 2	-.269258 - 2	.883250 - 1	-.606703 - 1
4.8	.392928 - 1	-.779189 - 1	-.270362 - 2	.139937 2	-.295608 - 2	.957876 - 1	-.607723 - 1
5.0	.392643 - 1	-.849222 - 1	-.297860 - 2	.140584 2	-.323460 - 2	.103549	-.608709 - 1
5.2	.392384 - 1	-.922252 - 1	-.326954 - 2	.141179 2	-.352848 - 2	.111610	-.609659 - 1
5.4	.392148 - 1	-.998278 - 1	-.357678 - 2	.141727 2	-.383806 - 2	.119969	-.610573 - 1
5.6	.391931 - 1	-.107730	-.390065 - 2	.142235 2	-.416369 - 2	.128626	-.611452 - 1
5.8	.391731 - 1	-.115931	-.424150 - 2	.142705 2	-.450570 - 2	.137583	-.612296 - 1
6.0	.391546 - 1	-.124431	-.459967 - 2	.143141 2	-.486443 - 2	.146837	-.613107 - 1
6.2	.391374 - 1	-.133230	-.497549 - 2	.143548 2	-.524023 - 2	.156390	-.613884 - 1

Z = 15, A = 31

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.239443	1	-.171368		-.867891	- 2	-.105565		-.377213	- 1	.855304		-.612097	1
.6	.196778	1	-.322452		-.164249	- 1	-.652230	- 1	-.506731	- 1	.114141	1	-.863289	1
.8	.178445	1	-.504008		-.258621	- 1	-.451030	- 1	-.635285	- 1	.141897	1	-.109696	2
1.0	.168752	1	-.705809		-.365266	- 1	-.329362	- 1	-.763424	- 1	.168865	1	-.131149	2
1.2	.162965	1	-.920641		-.480912	- 1	-.247441	- 1	-.891835	- 1	.195175	1	-.150779	2
1.4	.159218	1	-.114380	1	-.603429	- 1	-.188356	- 1	-.102117		.220966	1	-.168745	2
1.6	.156637	1	-.137229	1	-.731468	- 1	-.143653	- 1	-.115197		.246360	1	-.185215	2
1.8	.154778	1	-.160424	1	-.864184	- 1	-.108614	- 1	-.128464		.271448	1	-.200348	2
2.0	.153387	1	-.183846	1	-.100104		-.803962	- 2	-.141946		.296301	1	-.214292	2
2.2	.152314	1	-.207418	1	-.114168		-.571751	- 2	-.155667		.320970	1	-.227173	2
2.4	.151464	1	-.231089	1	-.128589		-.377275	- 2	-.169641		.345494	1	-.239106	2
2.6	.150775	1	-.254825	1	-.143351		-.212009	- 2	-.183880		.369900	1	-.250190	2
2.8	.150208	1	-.278603	1	-.158444		-.698210	- 3	-.198392		.394209	1	-.260510	2
3.0	.149731	1	-.302407	1	-.173860		.538084	- 3	-.213184		.418438	1	-.270143	2
3.2	.149326	1	-.326226	1	-.189595		.162289	- 2	-.228260		.442598	1	-.279155	2
3.4	.148976	1	-.350051	1	-.205643		.258242	- 2	-.243625		.466700	1	-.287604	2
3.6	.148671	1	-.373877	1	-.222004		.343714	- 2	-.259280		.490750	1	-.295542	2
3.8	.148403	1	-.397700	1	-.238674		.420330	- 2	-.275228		.514754	1	-.303014	2
4.0	.148165	1	-.421516	1	-.255651		.489392	- 2	-.291470		.538718	1	-.310060	2
4.2	.147951	1	-.445324	1	-.272936		.551960	- 2	-.308009		.562644	1	-.316716	2
4.4	.147758	1	-.469120	1	-.290526		.608905	- 2	-.324844		.586536	1	-.323015	2
4.6	.147583	1	-.492905	1	-.308421		.660945	- 2	-.341976		.610396	1	-.328985	2
4.8	.147423	1	-.516676	1	-.326620		.708685	- 2	-.359407		.634227	1	-.334651	2
5.0	.147277	1	-.540433	1	-.345123		.752630	- 2	-.377137		.658029	1	-.340037	2
5.2	.147141	1	-.564176	1	-.363929		.793212	- 2	-.395165		.681806	1	-.345164	2
5.4	.147015	1	-.587904	1	-.383037		.830797	- 2	-.413493		.705557	1	-.350050	2
5.6	.146898	1	-.611616	1	-.402448		.865701	- 2	-.432119		.729285	1	-.354714	2
5.8	.146789	1	-.635313	1	-.422161		.898197	- 2	-.451046		.752989	1	-.359169	2
6.0	.146686	1	-.658994	1	-.442175		.928521	- 2	-.470271		.776671	1	-.363431	2
6.2	.146590	1	-.682659	1	-.462491		.956879	- 2	-.489797		.800331	1	-.367513	2

Z = 15, A = 31

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.693357 - 1	-.222802 - 3	-.648546 - 5	.372453	1	-.288449 - 4	.114527 - 2	-.126995
.6	.549068 - 1	-.626434 - 3	-.183443 - 4	.537243	1	-.570738 - 4	.225043 - 2	-.933310 - 1
.8	.491740 - 1	-.130444 - 2	-.384918 - 4	.673922	1	-.948493 - 4	.370709 - 2	-.791665 - 1
1.0	.462568 - 1	-.228330 - 2	-.679754 - 4	.784982	1	-.142166 - 3	.550003 - 2	-.721564 - 1
1.2	.445577 - 1	-.357474 - 2	-.107460 - 3	.874510	1	-.199146 - 3	.761889 - 2	-.683831 - 1
1.4	.434777 - 1	-.518311 - 2	-.157422 - 3	.946766	1	-.266011 - 3	.100573 - 1	-.662548 - 1
1.6	.427468 - 1	-.710945 - 2	-.218252 - 3	.100546	2	-.343043 - 3	.128115 - 1	-.650280 - 1
1.8	.422281 - 1	-.935349 - 2	-.290307 - 3	.105358	2	-.430562 - 3	.158793 - 1	-.643220 - 1
2.0	.418458 - 1	-.119145 - 1	-.373935 - 3	.109344	2	-.528908 - 3	.192595 - 1	-.639285 - 1
2.2	.415553 - 1	-.147916 - 1	-.469478 - 3	.112680	2	-.638433 - 3	.229514 - 1	-.637281 - 1
2.4	.413286 - 1	-.179840 - 1	-.577283 - 3	.115500	2	-.759494 - 3	.269545 - 1	-.636491 - 1
2.6	.411480 - 1	-.214911 - 1	-.697698 - 3	.117908	2	-.892453 - 3	.312685 - 1	-.636475 - 1
2.8	.410013 - 1	-.253121 - 1	-.831071 - 3	.119981	2	-.103767 - 2	.358931 - 1	-.636954 - 1
3.0	.408802 - 1	-.294465 - 1	-.977755 - 3	.121782	2	-.119551 - 2	.408283 - 1	-.637746 - 1
3.2	.407787 - 1	-.338939 - 1	-.113810 - 2	.123357	2	-.136633 - 2	.460739 - 1	-.638733 - 1
3.4	.406927 - 1	-.386538 - 1	-.131247 - 2	.124745	2	-.155051 - 2	.516297 - 1	-.639835 - 1
3.6	.406189 - 1	-.437259 - 1	-.150121 - 2	.125975	2	-.174839 - 2	.574957 - 1	-.641001 - 1
3.8	.405550 - 1	-.491098 - 1	-.170469 - 2	.127072	2	-.196035 - 2	.636717 - 1	-.642194 - 1
4.0	.404990 - 1	-.548053 - 1	-.192325 - 2	.128056	2	-.218674 - 2	.701575 - 1	-.643390 - 1
4.2	.404497 - 1	-.608119 - 1	-.215726 - 2	.128943	2	-.242794 - 2	.769531 - 1	-.644573 - 1
4.4	.404059 - 1	-.671295 - 1	-.240708 - 2	.129745	2	-.268429 - 2	.840584 - 1	-.645732 - 1
4.6	.403667 - 1	-.737579 - 1	-.267305 - 2	.130475	2	-.295617 - 2	.914731 - 1	-.646861 - 1
4.8	.403315 - 1	-.806967 - 1	-.295555 - 2	.131140	2	-.324393 - 2	.991972 - 1	-.647954 - 1
5.0	.402996 - 1	-.879458 - 1	-.325493 - 2	.131750	2	-.354793 - 2	.107231	-.649011 - 1
5.2	.402705 - 1	-.955049 - 1	-.357155 - 2	.132310	2	-.386854 - 2	.115573	-.650029 - 1
5.4	.402440 - 1	-.103374	-.390576 - 2	.132827	2	-.420611 - 2	.124224	-.651009 - 1
5.6	.402196 - 1	-.111552	-.425793 - 2	.133304	2	-.456101 - 2	.133185	-.651951 - 1
5.8	.401971 - 1	-.120040	-.462841 - 2	.133747	2	-.493360 - 2	.142453	-.652856 - 1
6.0	.401762 - 1	-.128838	-.501757 - 2	.134158	2	-.532423 - 2	.152031	-.653725 - 1
6.2	.401569 - 1	-.137944	-.542575 - 2	.134541	2	-.573326 - 2	.161916	-.654559 - 1

Z = 16, A = 34

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.252848	1	-.176913		-.951630	- 2	-.112056		-.413211	- 1	.878363		-.574221	1
.6	.205921	1	-.330526		-.178791	- 1	-.688730	- 1	-.552462	- 1	.116688	1	-.806037	1
.8	.185778	1	-.514800		-.280465	- 1	-.473821	- 1	-.690647	- 1	.144691	1	-.102156	2
1.0	.175133	1	-.719446		-.395212	- 1	-.343960	- 1	-.828385	- 1	.171918	1	-.121904	2
1.2	.168779	1	-.937206		-.519528	- 1	-.256551	- 1	-.966392	- 1	.198498	1	-.139933	2
1.4	.164661	1	-.116334	1	-.651124	- 1	-.193517	- 1	-.110535		.224566	1	-.156395	2
1.6	.161826	1	-.139484	1	-.788556	- 1	-.145829	- 1	-.124582		.250241	1	-.171453	2
1.8	.159780	1	-.162982	1	-.930912	- 1	-.108453	- 1	-.138823		.275613	1	-.185263	2
2.0	.158248	1	-.186706	1	-.107762		-.783535	- 2	-.153287		.300752	1	-.197962	2
2.2	.157064	1	-.210580	1	-.122829		-.535845	- 2	-.167999		.325708	1	-.209673	2
2.4	.156124	1	-.234552	1	-.138270		-.328409	- 2	-.182974		.350519	1	-.220505	2
2.6	.155362	1	-.258588	1	-.154067		-.152132	- 2	-.198224		.375211	1	-.230551	2
2.8	.154733	1	-.282664	1	-.170209		-.474021	- 5	-.213759		.399806	1	-.239891	2
3.0	.154204	1	-.306765	1	-.186688		.131387	- 2	-.229584		.424320	1	-.248599	2
3.2	.153753	1	-.330880	1	-.203499		.247088	- 2	-.245705		.448764	1	-.256735	2
3.4	.153363	1	-.354998	1	-.220638		.349424	- 2	-.262126		.473147	1	-.264354	2
3.6	.153023	1	-.379116	1	-.238100		.440580	- 2	-.278849		.497478	1	-.271505	2
3.8	.152723	1	-.403229	1	-.255885		.522287	- 2	-.295876		.521761	1	-.278229	2
4.0	.152456	1	-.427333	1	-.273991		.595936	- 2	-.313210		.546002	1	-.284565	2
4.2	.152217	1	-.451426	1	-.292415		.662657	- 2	-.330852		.570204	1	-.290545	2
4.4	.152000	1	-.475507	1	-.311157		.723378	- 2	-.348802		.594369	1	-.296199	2
4.6	.151803	1	-.499573	1	-.330217		.778866	- 2	-.367061		.618502	1	-.301553	2
4.8	.151623	1	-.523624	1	-.349593		.829766	- 2	-.385630		.642603	1	-.306633	2
5.0	.151457	1	-.547660	1	-.369284		.876617	- 2	-.404510		.666675	1	-.311457	2
5.2	.151304	1	-.571678	1	-.389291		.919878	- 2	-.423701		.690718	1	-.316047	2
5.4	.151162	1	-.595680	1	-.409612		.959942	- 2	-.443202		.714735	1	-.320419	2
5.6	.151029	1	-.619665	1	-.430247		.997145	- 2	-.463015		.738726	1	-.324590	2
5.8	.150905	1	-.643632	1	-.451196		.103178	- 1	-.483139		.762691	1	-.328572	2
6.0	.150789	1	-.667581	1	-.472459		.106409	- 1	-.503574		.786633	1	-.332380	2
6.2	.150679	1	-.691512	1	-.494034		.109431	- 1	-.524320		.810551	1	-.336025	2

Z = 16, A = 34

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.736239 - 1	-.237053 - 3	-.732666 - 5	.348416 1	-.326869 - 4	.121685 - 2	-.135390
.6	.575001 - 1	-.661434 - 3	-.205626 - 4	.503755 1	-.642145 - 4	.237457 - 2	-.992899 - 1
.8	.511470 - 1	-.137228 - 2	-.429796 - 4	.632583 1	-.106323 - 3	.389826 - 2	-.841353 - 1
1.0	.479271 - 1	-.239713 - 2	-.757260 - 4	.737302 1	-.159002 - 3	.577248 - 2	-.766419 - 1
1.2	.460557 - 1	-.374817 - 2	-.119528 - 3	.821757 1	-.222383 - 3	.798664 - 2	-.726100 - 1
1.4	.448675 - 1	-.542996 - 2	-.174903 - 3	.889945 1	-.296699 - 3	.105342 - 1	-.703364 - 1
1.6	.440638 - 1	-.744360 - 2	-.242272 - 3	.945355 1	-.382254 - 3	.134114 - 1	-.690259 - 1
1.8	.434935 - 1	-.978884 - 2	-.322022 - 3	.990796 1	-.479392 - 3	.166160 - 1	-.682717 - 1
2.0	.430731 - 1	-.124649 - 1	-.414524 - 3	.102844 2	-.588478 - 3	.201467 - 1	-.678513 - 1
2.2	.427534 - 1	-.154709 - 1	-.520149 - 3	.105996 2	-.709889 - 3	.240026 - 1	-.676371 - 1
2.4	.425040 - 1	-.188060 - 1	-.639268 - 3	.108661 2	-.844009 - 3	.281834 - 1	-.675527 - 1
2.6	.423050 - 1	-.224694 - 1	-.772253 - 3	.110936 2	-.991227 - 3	.326887 - 1	-.675509 - 1
2.8	.421433 - 1	-.264605 - 1	-.919481 - 3	.112896 2	-.115193 - 2	.375183 - 1	-.676018 - 1
3.0	.420096 - 1	-.307788 - 1	-.108133 - 2	.114598 2	-.132651 - 2	.426719 - 1	-.676863 - 1
3.2	.418976 - 1	-.354236 - 1	-.125818 - 2	.116087 2	-.151536 - 2	.481494 - 1	-.677915 - 1
3.4	.418025 - 1	-.403946 - 1	-.145041 - 2	.117399 2	-.171886 - 2	.539507 - 1	-.679092 - 1
3.6	.417208 - 1	-.456912 - 1	-.165840 - 2	.118563 2	-.193741 - 2	.600756 - 1	-.680336 - 1
3.8	.416500 - 1	-.513133 - 1	-.188254 - 2	.119600 2	-.217140 - 2	.665239 - 1	-.681608 - 1
4.0	.415880 - 1	-.572604 - 1	-.212321 - 2	.120531 2	-.242121 - 2	.732956 - 1	-.682884 - 1
4.2	.415332 - 1	-.635322 - 1	-.238080 - 2	.121369 2	-.268724 - 2	.803904 - 1	-.684147 - 1
4.4	.414846 - 1	-.701284 - 1	-.265568 - 2	.122128 2	-.296987 - 2	.878082 - 1	-.685384 - 1
4.6	.414410 - 1	-.770488 - 1	-.294825 - 2	.122818 2	-.326950 - 2	.955489 - 1	-.686588 - 1
4.8	.414017 - 1	-.842930 - 1	-.325889 - 2	.123448 2	-.358650 - 2	.103612	-.687755 - 1
5.0	.413661 - 1	-.918609 - 1	-.358798 - 2	.124024 2	-.392128 - 2	.111998	-.688883 - 1
5.2	.413337 - 1	-.997522 - 1	-.393591 - 2	.124554 2	-.427421 - 2	.120706	-.689970 - 1
5.4	.413040 - 1	-.107967	-.430306 - 2	.125043 2	-.464568 - 2	.129737	-.691015 - 1
5.6	.412767 - 1	-.116504	-.468982 - 2	.125495 2	-.503608 - 2	.139089	-.692021 - 1
5.8	.412515 - 1	-.125364	-.509657 - 2	.125913 2	-.544579 - 2	.148764	-.692986 - 1
6.0	.412281 - 1	-.134547	-.552370 - 2	.126303 2	-.587521 - 2	.158760	-.693913 - 1
6.2	.412064 - 1	-.144052	-.597160 - 2	.126665 2	-.632472 - 2	.169077	-.694803 - 1

z = 17, A = 37

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.266898	1	-.182645		-.103974	- 1	-.118484		-.450782	- 1	.901831		-.540929	1
.6	.215498	1	-.338851		-.193950	- 1	-.724324	- 1	-.599982	- 1	.119291	1	-.755588	1
.8	.193450	1	-.525911		-.303117	- 1	-.495652	- 1	-.747993	- 1	.147549	1	-.955112	1
1.0	.181805	1	-.733475		-.426165	- 1	-.357585	- 1	-.895523	- 1	.175044	1	-.113758	2
1.2	.174854	1	-.954236		-.559350	- 1	-.264682	- 1	-.104332		.201900	1	-.130380	2
1.4	.170346	1	-.118342	1	-.700229	- 1	-.197698	- 1	-.119210		.220252	1	-.145524	2
1.6	.167241	1	-.141800	1	-.847254	- 1	-.147025	- 1	-.134243		.254215	1	-.159348	2
1.8	.164998	1	-.165607	1	-.999450	- 1	-.107312	- 1	-.149476		.279878	1	-.172000	2
2.0	.163315	1	-.189640	1	-.115620		-.753307	- 2	-.164942		.305309	1	-.183613	2
2.2	.162013	1	-.213823	1	-.131710		-.490138	- 2	-.180663		.330558	1	-.194305	2
2.4	.160979	1	-.238102	1	-.148189		-.269743	- 2	-.196657		.355661	1	-.204179	2
2.6	.160139	1	-.262445	1	-.165040		-.824552	- 3	-.212937		.380645	1	-.213322	2
2.8	.159443	1	-.286826	1	-.182249		.786719	- 3	-.229511		.405531	1	-.221812	2
3.0	.158858	1	-.311230	1	-.199809		.218763	- 2	-.246387		.430334	1	-.229717	2
3.2	.158358	1	-.335645	1	-.217714		.341683	- 2	-.263570		.455066	1	-.237094	2
3.4	.157926	1	-.360062	1	-.235958		.450401	- 2	-.281063		.479737	1	-.243995	2
3.6	.157548	1	-.384477	1	-.254540		.547239	- 2	-.298870		.504353	1	-.250465	2
3.8	.157214	1	-.408885	1	-.273455		.634035	- 2	-.316992		.528919	1	-.256544	2
4.0	.156916	1	-.433282	1	-.292704		.712268	- 2	-.335432		.553442	1	-.262266	2
4.2	.156648	1	-.457665	1	-.312283		.783139	- 2	-.354191		.577924	1	-.267663	2
4.4	.156406	1	-.482034	1	-.332192		.847633	- 2	-.373270		.602368	1	-.272762	2
4.6	.156185	1	-.506387	1	-.352430		.906567	- 2	-.392670		.626776	1	-.277587	2
4.8	.155983	1	-.530723	1	-.372995		.960623	- 2	-.412391		.651152	1	-.282161	2
5.0	.155797	1	-.555041	1	-.393888		.101038	- 1	-.432434		.675496	1	-.286503	2
5.2	.155625	1	-.579340	1	-.415108		.105631	- 1	-.452799		.699810	1	-.290632	2
5.4	.155465	1	-.603620	1	-.436654		.109885	- 1	-.473486		.724095	1	-.294562	2
5.6	.155315	1	-.627880	1	-.458525		.113835	- 1	-.494496		.748353	1	-.298309	2
5.8	.155175	1	-.652121	1	-.480722		.117512	- 1	-.515828		.772583	1	-.301886	2
6.0	.155043	1	-.676342	1	-.503243		.120942	- 1	-.537483		.796788	1	-.305304	2
6.2	.154919	1	-.700543	1	-.526089		.124149	- 1	-.559461		.820967	1	-.308575	2

Z = 17, A = 37

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.781677 - 1	-.251564 - 3	-.822594 - 5	.327136 1	-.367982 - 4	.128945 - 2	-.143793
.6	.602210 - 1	-.696629 - 3	-.229086 - 4	.474165 1	-.717841 - 4	.249912 - 2	-.105220
.8	.532071 - 1	-.144004 - 2	-.476993 - 4	.596082 1	-.118424 - 3	.408890 - 2	-.890667 - 1
1.0	.496665 - 1	-.251034 - 2	-.838500 - 4	.695217 1	-.176705 - 3	.604314 - 2	-.810868 - 1
1.2	.476131 - 1	-.392018 - 2	-.132150 - 3	.775203 1	-.246763 - 3	.835107 - 2	-.767951 - 1
1.4	.463107 - 1	-.567433 - 2	-.193155 - 3	.839809 1	-.328847 - 3	.110061 - 1	-.743755 - 1
1.6	.454302 - 1	-.777396 - 2	-.267322 - 3	.892327 1	-.423282 - 3	.140042 - 1	-.729809 - 1
1.8	.448055 - 1	-.102100 - 1	-.355063 - 3	.935409 1	-.530433 - 3	.173432 - 1	-.721784 - 1
2.0	.443449 - 1	-.130080 - 1	-.456777 - 3	.971110 1	-.650691 - 3	.210217 - 1	-.717310 - 1
2.2	.439945 - 1	-.161408 - 1	-.572858 - 3	.100100 2	-.784459 - 3	.250389 - 1	-.715030 - 1
2.4	.437209 - 1	-.196161 - 1	-.703703 - 3	.102629 2	-.932148 - 3	.293942 - 1	-.714130 - 1
2.6	.435025 - 1	-.234333 - 1	-.849711 - 3	.104788 2	-.109417 - 2	.340874 - 1	-.714109 - 1
2.8	.433249 - 1	-.275916 - 1	-.101128 - 2	.106648 2	-.127095 - 2	.391182 - 1	-.714650 - 1
3.0	.431780 - 1	-.320904 - 1	-.118882 - 2	.108263 2	-.146289 - 2	.444863 - 1	-.715546 - 1
3.2	.430548 - 1	-.369291 - 1	-.138274 - 2	.109676 2	-.167042 - 2	.501915 - 1	-.716665 - 1
3.4	.429500 - 1	-.421073 - 1	-.159343 - 2	.110922 2	-.189395 - 2	.562337 - 1	-.717915 - 1
3.6	.428600 - 1	-.476245 - 1	-.182132 - 2	.112026 2	-.213390 - 2	.626128 - 1	-.719237 - 1
3.8	.427818 - 1	-.534804 - 1	-.206680 - 2	.113011 2	-.239069 - 2	.693284 - 1	-.720590 - 1
4.0	.427133 - 1	-.596745 - 1	-.233029 - 2	.113895 2	-.266473 - 2	.763805 - 1	-.721946 - 1
4.2	.426528 - 1	-.662065 - 1	-.261221 - 2	.114691 2	-.295644 - 2	.837688 - 1	-.723288 - 1
4.4	.425989 - 1	-.730761 - 1	-.291295 - 2	.115412 2	-.326623 - 2	.914932 - 1	-.724602 - 1
4.6	.425506 - 1	-.802830 - 1	-.323293 - 2	.116067 2	-.359452 - 2	.995536 - 1	-.725883 - 1
4.8	.425070 - 1	-.878269 - 1	-.357256 - 2	.116665 2	-.394172 - 2	.107950	-.727123 - 1
5.0	.424675 - 1	-.957076 - 1	-.393226 - 2	.117212 2	-.430825 - 2	.116681	-.728322 - 1
5.2	.424314 - 1	-.103925	-.431243 - 2	.117716 2	-.469452 - 2	.125748	-.729477 - 1
5.4	.423984 - 1	-.112478	-.471348 - 2	.118180 2	-.510095 - 2	.135150	-.730589 - 1
5.6	.423680 - 1	-.121367	-.513584 - 2	.118609 2	-.552794 - 2	.144888	-.731658 - 1
5.8	.423399 - 1	-.130592	-.557990 - 2	.119007 2	-.597592 - 2	.154959	-.732684 - 1
6.0	.423138 - 1	-.140152	-.604607 - 2	.119376 2	-.644529 - 2	.165366	-.733669 - 1
6.2	.422895 - 1	-.150048	-.653478 - 2	.119721 2	-.693646 - 2	.176107	-.734615 - 1

z = 18, A = 39

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.281662	1	-.188589	-.113138 - 1	-.124851	-.489988 - 1	.925797	-.511454 1
.6	.225563	1	-.347464	-.209550 - 1	-.759005 - 1	-.649345 - 1	.121960	1 -.710805 1
.8	.201510	1	-.537398	-.326279 - 1	-.516515 - 1	-.807340 - 1	.150487	1 -.896112 1
1.0	.188810	1	-.747972	-.457675 - 1	-.370226 - 1	-.964786 - 1	.178260	1 -.106528 2
1.2	.181227	1	-.971830	-.599752 - 1	-.271826 - 1	-.112247	.205404	1 -.121905 2
1.4	.176309	1	-.120416	1 -.749906 - 1	-.200889 - 1	-.128113	.232050	1 -.135885 2
1.6	.172917	1	-.144192	1 -.906487 - 1	-.147231 - 1	-.144136	.258310	1 -.148621 2
1.8	.170465	1	-.168317	1 -.106846	-.105179 - 1	-.160363	.284274	1 -.160254 2
2.0	.168623	1	-.192669	1 -.123515	-.713161 - 2	-.176826	.310006	1 -.170913 2
2.2	.167196	1	-.217170	1 -.140615	-.434511 - 2	-.193551	.335557	1 -.180710 2
2.4	.166061	1	-.241767	1 -.158116	-.201154 - 2	-.210556	.360961	1 -.189743 2
2.6	.165137	1	-.266425	1 -.176001	-.285450 - 4	-.227852	.386246	1 -.198096 2
2.8	.164371	1	-.291120	1 -.194255	.167744 - 2	-.245451	.411432	1 -.205842 2
3.0	.163726	1	-.315836	1 -.212870	.316068 - 2	-.263358	.436534	1 -.213045 2
3.2	.163174	1	-.340561	1 -.231839	.446210 - 2	-.281580	.461564	1 -.219760 2
3.4	.162695	1	-.365287	1 -.251157	.561312 - 2	-.300121	.486530	1 -.226035 2
3.6	.162276	1	-.390008	1 -.270822	.663834 - 2	-.318983	.511440	1 -.231913 2
3.8	.161905	1	-.414720	1 -.290830	.755723 - 2	-.338169	.536299	1 -.237429 2
4.0	.161574	1	-.439418	1 -.311179	.838543 - 2	-.357680	.561113	1 -.242618 2
4.2	.161276	1	-.464102	1 -.331868	.913567 - 2	-.377519	.585883	1 -.247507 2
4.4	.161007	1	-.488769	1 -.352895	.981837 - 2	-.397685	.610614	1 -.252123 2
4.6	.160760	1	-.513417	1 -.374260	.104422 - 1	-.418181	.635309	1 -.256489 2
4.8	.160534	1	-.538047	1 -.395960	.110143 - 1	-.439006	.659968	1 -.260624 2
5.0	.160326	1	-.562656	1 -.417997	.115409 - 1	-.460162	.684593	1 -.264548 2
5.2	.160133	1	-.587244	1 -.440369	.120271 - 1	-.481647	.709187	1 -.268276 2
5.4	.159953	1	-.611812	1 -.463075	.124773 - 1	-.503463	.733750	1 -.271823 2
5.6	.159785	1	-.636357	1 -.486115	.128953 - 1	-.525610	.758284	1 -.275204 2
5.8	.159628	1	-.660881	1 -.509488	.132843 - 1	-.548087	.782788	1 -.278429 2
6.0	.159480	1	-.685384	1 -.533194	.136472 - 1	-.570896	.807265	1 -.281510 2
6.2	.159340	1	-.709864	1 -.557233	.139865 - 1	-.594034	.831714	1 -.284457 2

Z = 18 , A = 39

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.829879 - 1	-.264152 - 3	-.909947 - 5	.308153	1	-.408441 - 4	.135189 - 2	-.152208
.6	.630806 - 1	-.726015 - 3	-.251470 - 4	.447823	1	-.791229 - 4	.260257 - 2	-.111122
.8	.553625 - 1	-.149536 - 2	-.521579 - 4	.563610	1	-.130054 - 3	.424395 - 2	-.939609 - 1
1.0	.514819 - 1	-.260144 - 2	-.914750 - 4	.657794	1	-.193619 - 3	.626033 - 2	-.854914 - 1
1.2	.492359 - 1	-.405729 - 2	-.143940 - 3	.733815	1	-.269954 - 3	.864087 - 2	-.809384 - 1
1.4	.478129 - 1	-.586781 - 2	-.210144 - 3	.795244	1	-.359317 - 3	.113789 - 1	-.783720 - 1
1.6	.468514 - 1	-.803422 - 2	-.290565 - 3	.845197	1	-.462045 - 3	.144704 - 1	-.768931 - 1
1.8	.461692 - 1	-.105563 - 1	-.385637 - 3	.886187	1	-.578521 - 3	.179131 - 1	-.760419 - 1
2.0	.456662 - 1	-.134331 - 1	-.495777 - 3	.920163	1	-.709151 - 3	.217055 - 1	-.755675 - 1
2.2	.452833 - 1	-.166638 - 1	-.621398 - 3	.948619	1	-.854359 - 3	.258470 - 1	-.753255 - 1
2.4	.449843 - 1	-.202475 - 1	-.762915 - 3	.972691	1	-.101457 - 2	.303368 - 1	-.752299 - 1
2.6	.447454 - 1	-.241833 - 1	-.920745 - 3	.993248	1	-.119023 - 2	.351747 - 1	-.752275 - 1
2.8	.445510 - 1	-.284705 - 1	-.109531 - 2	.101096	2	-.138176 - 2	.403603 - 1	-.752847 - 1
3.0	.443900 - 1	-.331084 - 1	-.128702 - 2	.102634	2	-.158960 - 2	.458933 - 1	-.753796 - 1
3.2	.442549 - 1	-.380965 - 1	-.149632 - 2	.103981	2	-.181419 - 2	.517737 - 1	-.754980 - 1
3.4	.441399 - 1	-.434342 - 1	-.172362 - 2	.105167	2	-.205597 - 2	.580010 - 1	-.756304 - 1
3.6	.440410 - 1	-.491211 - 1	-.196935 - 2	.106220	2	-.231537 - 2	.645753 - 1	-.757704 - 1
3.8	.439550 - 1	-.551568 - 1	-.223394 - 2	.107158	2	-.259283 - 2	.714962 - 1	-.759137 - 1
4.0	.438796 - 1	-.615408 - 1	-.251782 - 2	.108000	2	-.288877 - 2	.787636 - 1	-.760574 - 1
4.2	.438129 - 1	-.682728 - 1	-.282142 - 2	.108759	2	-.320365 - 2	.863773 - 1	-.761995 - 1
4.4	.437534 - 1	-.753524 - 1	-.314517 - 2	.109445	2	-.353789 - 2	.943370 - 1	-.763388 - 1
4.6	.437001 - 1	-.827793 - 1	-.348949 - 2	.110070	2	-.389192 - 2	.102643	-.764744 - 1
4.8	.436519 - 1	-.905532 - 1	-.385482 - 2	.110640	2	-.426619 - 2	.111294	-.766058 - 1
5.0	.436082 - 1	-.986738 - 1	-.424158 - 2	.111162	2	-.466112 - 2	.120290	-.767328 - 1
5.2	.435683 - 1	-.107141	-.465021 - 2	.111641	2	-.507714 - 2	.129632	-.768552 - 1
5.4	.435316 - 1	-.115954	-.508114 - 2	.112084	2	-.551470 - 2	.139319	-.769729 - 1
5.6	.434979 - 1	-.125113	-.553480 - 2	.112493	2	-.597421 - 2	.149351	-.770861 - 1
5.8	.434666 - 1	-.134617	-.601161 - 2	.112872	2	-.645612 - 2	.159727	-.771949 - 1
6.0	.434376 - 1	-.144467	-.651201 - 2	.113224	2	-.696085 - 2	.170448	-.772993 - 1
6.2	.434106 - 1	-.154662	-.703642 - 2	.113553	2	-.748884 - 2	.181513	-.773995 - 1

Z = 19, A = 41

p	F_0		f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.297138	1	-.194738	-.122791 - 1	-.131157	-.530864 - 1	.950199	-.485191	1
.6	.236113	1	-.356350	-.225843 - 1	-.792766 - 1	-.700635 - 1	.124689	-.670789	1
.8	.209950	1	-.549232	-.350355 - 1	-.536400 - 1	-.868837 - 1	.153495	-.843382	1
1.0	.196139	1	-.762894	-.490331 - 1	-.381873 - 1	-.103642	.181555	-.100068	2
1.2	.187893	1	-.989927	-.641538 - 1	-.277970 - 1	-.120422	.208994	-.114338	2
1.4	.182540	1	-.122548	1	-.801209 - 1	-.203079 - 1	-.137298	.235941	1
1.6	.178846	1	-.146649	1	-.967590 - 1	-.146435 - 1	-.154334	.262506	1
1.8	.176172	1	-.171101	1	-.113958	-.102046 - 1	-.171577	.288777	1
2.0	.174162	1	-.195779	1	-.131646	-.663003 - 2	-.189061	.314817	1
2.2	.172602	1	-.220605	1	-.149780	-.368871 - 2	-.206812	.340676	1
2.4	.171359	1	-.245526	1	-.168328	-.122552 - 2	-.224850	.366388	1
2.6	.170346	1	-.270506	1	-.187270	.867593 - 3	-.243186	.391980	1
2.8	.169506	1	-.295522	1	-.206593	.266829 - 2	-.261831	.417472	1
3.0	.168796	1	-.320556	1	-.226286	.423385 - 2	-.280793	.442878	1
3.2	.168187	1	-.345597	1	-.246343	.560747 - 2	-.300076	.468210	1
3.4	.167660	1	-.370638	1	-.266759	.682233 - 2	-.319686	.493478	1
3.6	.167197	1	-.395671	1	-.287530	.790438 - 2	-.339625	.518687	1
3.8	.166786	1	-.420692	1	-.308652	.887417 - 2	-.359896	.543844	1
4.0	.166420	1	-.445698	1	-.330125	.974823 - 2	-.380500	.568953	1
4.2	.166089	1	-.470687	1	-.351946	.105400 - 1	-.401440	.594017	1
4.4	.165789	1	-.495657	1	-.374114	.112604 - 1	-.422716	.619040	1
4.6	.165515	1	-.520606	1	-.396627	.119187 - 1	-.444328	.644024	1
4.8	.165264	1	-.545534	1	-.419485	.125224 - 1	-.466279	.668970	1
5.0	.165031	1	-.570439	1	-.442687	.130780 - 1	-.488567	.693882	1
5.2	.164816	1	-.595321	1	-.466232	.135910 - 1	-.511193	.718759	1
5.4	.164615	1	-.620181	1	-.490120	.140659 - 1	-.534159	.743604	1
5.6	.164427	1	-.645016	1	-.514349	.145068 - 1	-.557462	.768418	1
5.8	.164250	1	-.669828	1	-.538920	.149172 - 1	-.581105	.793200	1
6.0	.164084	1	-.694615	1	-.563832	.153000 - 1	-.605086	.817953	1
6.2	.163928	1	-.719378	1	-.589085	.156578 - 1	-.629406	.842676	1

Z = 19, A = 41

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.880953 - 1	-.277133 - 3	-.100307 - 4	.291105 1	-.451535 - 4	.141601 - 2	-.160637
.6	.660818 - 1	-.756040 - 3	-.275099 - 4	.424216 1	-.868738 - 4	.270803 - 2	-.116997
.8	.576142 - 1	-.155159 - 2	-.568406 - 4	.534534 1	-.142282 - 3	.440133 - 2	-.988179 - 1
1.0	.533733 - 1	-.269376 - 2	-.994592 - 4	.624296 1	-.211352 - 3	.648017 - 2	-.898554 - 1
1.2	.509239 - 1	-.419594 - 2	-.156261 - 3	.696780 1	-.294223 - 3	.893367 - 2	-.850396 - 1
1.4	.493737 - 1	-.606318 - 2	-.227872 - 3	.755373 1	-.391161 - 3	.117551 - 1	-.823259 - 1
1.6	.483267 - 1	-.829675 - 2	-.314795 - 3	.803036 1	-.502515 - 3	.149403 - 1	-.807621 - 1
1.8	.475839 - 1	-.108964 - 1	-.417482 - 3	.842158 1	-.628685 - 3	.184871 - 1	-.798622 - 1
2.0	.470361 - 1	-.138613 - 1	-.536372 - 3	.874596 1	-.770096 - 3	.223940 - 1	-.793604 - 1
2.2	.466190 - 1	-.171904 - 1	-.671894 - 3	.901768 1	-.927189 - 3	.266601 - 1	-.791045 - 1
2.4	.462931 - 1	-.208828 - 1	-.824482 - 3	.924758 1	-.110041 - 2	.312849 - 1	-.790033 - 1
2.6	.460325 - 1	-.249377 - 1	-.994570 - 3	.944395 1	-.129022 - 2	.362679 - 1	-.790005 - 1
2.8	.458203 - 1	-.293543 - 1	-.118260 - 2	.961316 1	-.149706 - 2	.416087 - 1	-.790608 - 1
3.0	.456445 - 1	-.341318 - 1	-.138900 - 2	.976015 1	-.172140 - 2	.473073 - 1	-.791609 - 1
3.2	.454967 - 1	-.392698 - 1	-.161423 - 2	.988881 1	-.196368 - 2	.533632 - 1	-.792859 - 1
3.4	.453709 - 1	-.447675 - 1	-.185873 - 2	.100022 2	-.222438 - 2	.597762 - 1	-.794257 - 1
3.6	.452625 - 1	-.506246 - 1	-.212294 - 2	.101028 2	-.250393 - 2	.665462 - 1	-.795735 - 1
3.8	.451683 - 1	-.568406 - 1	-.240730 - 2	.101925 2	-.280280 - 2	.736729 - 1	-.797248 - 1
4.0	.450855 - 1	-.634150 - 1	-.271228 - 2	.102729 2	-.312144 - 2	.811561 - 1	-.798765 - 1
4.2	.450122 - 1	-.703474 - 1	-.303831 - 2	.103455 2	-.346030 - 2	.889956 - 1	-.800265 - 1
4.4	.449468 - 1	-.776375 - 1	-.338584 - 2	.104111 2	-.381985 - 2	.971911 - 1	-.801736 - 1
4.6	.448881 - 1	-.852849 - 1	-.375532 - 2	.104708 2	-.420052 - 2	.105742	-.803168 - 1
4.8	.448350 - 1	-.932893 - 1	-.414720 - 2	.105253 2	-.460278 - 2	.114649	-.804556 - 1
5.0	.447868 - 1	-.101650	-.456193 - 2	.105752 2	-.502708 - 2	.123911	-.805897 - 1
5.2	.447427 - 1	-.110368	-.499996 - 2	.106211 2	-.547387 - 2	.133529	-.807190 - 1
5.4	.447022 - 1	-.119441	-.546174 - 2	.106634 2	-.594360 - 2	.143501	-.808434 - 1
5.6	.446648 - 1	-.128870	-.594771 - 2	.107025 2	-.643672 - 2	.153827	-.809629 - 1
5.8	.446303 - 1	-.138654	-.645833 - 2	.107387 2	-.695369 - 2	.164508	-.810778 - 1
6.0	.445981 - 1	-.148794	-.699404 - 2	.107724 2	-.749495 - 2	.175544	-.811880 - 1
6.2	.445681 - 1	-.159288	-.755529 - 2	.108038 2	-.806095 - 2	.186933	-.812939 - 1

Z = 20, A = 43

p	F ₀		f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.313360	1	-.201099	-.132958 - 1	-.137403	-.573457 - 1	.975046	-.461655	1
.6	.247172	1	-.365517	-.242861 - 1	-.825599 - 1	-.753913 - 1	.127478	-.634822	1
.8	.218792	1	-.561424	-.375387 - 1	-.555295 - 1	-.932562 - 1	.156574	-.795979	1
1.0	.203811	1	-.778253	-.524184 - 1	-.392515 - 1	-.111052	.184930	-.942636	1
1.2	.194864	1	-.100854	1	-.684769 - 1	-.283105 - 1	-.128866	.212672	1
1.4	.189053	1	-.124741	1	-.854209 - 1	-.204258 - 1	-.146776	.239928	1
1.6	.185040	1	-.149174	1	-.103064	-.144627 - 1	-.164848	.266806	1
1.8	.182132	1	-.173960	1	-.121290	-.978995 - 2	-.183131	.293390	1
2.0	.179942	1	-.198972	1	-.140023	-.602721 - 2	-.201659	.319745	1
2.2	.178241	1	-.224130	1	-.159216	-.293108 - 2	-.220461	.345918	1
2.4	.176884	1	-.249382	1	-.178835	-.338268 - 3	-.239554	.371945	1
2.6	.175777	1	-.274691	1	-.198860	.186496 - 2	-.258953	.397850	1
2.8	.174856	1	-.300034	1	-.219276	.376037 - 2	-.278668	.423653	1
3.0	.174077	1	-.325393	1	-.240073	.540825 - 2	-.298707	.449369	1
3.2	.173409	1	-.350757	1	-.261242	.685405 - 2	-.319075	.475010	1
3.4	.172828	1	-.376118	1	-.282779	.813274 - 2	-.339777	.500583	1
3.6	.172318	1	-.401468	1	-.304680	.927160 - 2	-.360816	.526097	1
3.8	.171865	1	-.426805	1	-.326942	.102923 - 1	-.382194	.551556	1
4.0	.171460	1	-.452124	1	-.349562	.112122 - 1	-.403914	.576965	1
4.2	.171094	1	-.477424	1	-.372538	.120454 - 1	-.425977	.602328	1
4.4	.170762	1	-.502702	1	-.395870	.128036 - 1	-.448383	.627647	1
4.6	.170458	1	-.527957	1	-.419555	.134963 - 1	-.471135	.652925	1
4.8	.170178	1	-.553188	1	-.443593	.141315 - 1	-.494232	.678164	1
5.0	.169920	1	-.578394	1	-.467983	.147162 - 1	-.517674	.703366	1
5.2	.169680	1	-.603575	1	-.492724	.152558 - 1	-.541463	.728531	1
5.4	.169456	1	-.628731	1	-.517815	.157555 - 1	-.565599	.753662	1
5.6	.169247	1	-.653860	1	-.543256	.162193 - 1	-.590081	.778759	1
5.8	.169050	1	-.678963	1	-.569047	.166509 - 1	-.614909	.803823	1
6.0	.168864	1	-.704040	1	-.595186	.170536 - 1	-.640084	.828855	1
6.2	.168689	1	-.729091	1	-.621673	.174299 - 1	-.665605	.853855	1

Z = 20, A = 43

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.935066 - 1	-.290526 - 3	-.110223 - 4	.275701	1 -.497375 - 4	.148191 - 2	-.169083
.6	.692321 - 1	-.786742 - 3	-.300022 - 4	.402933	1 -.950517 - 4	.281562 - 2	-.122845
.8	.599669 - 1	-.160881 - 2	-.617553 - 4	.508343	1 -.155125 - 3	.456123 - 2	-.103638
1.0	.553443 - 1	-.278743 - 2	-.107814 - 3	.594136	1 -.229928 - 3	.670296 - 2	-.941788 - 1
1.2	.526798 - 1	-.433634 - 2	-.169129 - 3	.663443	1 -.319599 - 3	.922988 - 2	-.890988 - 1
1.4	.509954 - 1	-.626073 - 2	-.246361 - 3	.719490	1 -.424414 - 3	.121352 - 1	-.862369 - 1
1.6	.498583 - 1	-.856193 - 2	-.340038 - 3	.765098	1 -.544736 - 3	.154147 - 1	-.845879 - 1
1.8	.490516 - 1	-.112397 - 1	-.450633 - 3	.802545	1 -.680979 - 3	.190662 - 1	-.836389 - 1
2.0	.484566 - 1	-.142931 - 1	-.578602 - 3	.833600	1 -.833586 - 3	.230881 - 1	-.831098 - 1
2.2	.480034 - 1	-.177212 - 1	-.724395 - 3	.859621	1 -.100302 - 2	.274795 - 1	-.828398 - 1
2.4	.476490 - 1	-.215230 - 1	-.888462 - 3	.881641	1 -.118974 - 2	.322398 - 1	-.827328 - 1
2.6	.473656 - 1	-.256976 - 1	-.107126 - 2	.900452	1 -.139423 - 2	.373606 - 1	-.827297 - 1
2.8	.471345 - 1	-.302442 - 1	-.127324 - 2	.916664	1 -.161695 - 2	.428654 - 1	-.827930 - 1
3.0	.469430 - 1	-.351620 - 1	-.149486 - 2	.930749	1 -.185839 - 2	.487301 - 1	-.828984 - 1
3.2	.467818 - 1	-.404505 - 1	-.173659 - 2	.943078	1 -.211902 - 2	.549623 - 1	-.830300 - 1
3.4	.466445 - 1	-.461090 - 1	-.199888 - 2	.953946	1 -.239931 - 2	.615618 - 1	-.831771 - 1
3.6	.465261 - 1	-.521370 - 1	-.228221 - 2	.963585	1 -.269974 - 2	.685283 - 1	-.833327 - 1
3.8	.464231 - 1	-.585340 - 1	-.258703 - 2	.972184	1 -.302078 - 2	.758616 - 1	-.834920 - 1
4.0	.463325 - 1	-.652996 - 1	-.291382 - 2	.979897	1 -.336291 - 2	.835614 - 1	-.836518 - 1
4.2	.462522 - 1	-.724332 - 1	-.326304 - 2	.986849	1 -.372660 - 2	.916274 - 1	-.838098 - 1
4.4	.461804 - 1	-.799346 - 1	-.363516 - 2	.993143	1 -.411233 - 2	.100059	-.839647 - 1
4.6	.461160 - 1	-.878033 - 1	-.403064 - 2	.998867	1 -.452056 - 2	.108857	-.841155 - 1
4.8	.460576 - 1	-.960389 - 1	-.444996 - 2	.100409	2 -.495177 - 2	.118020	-.842617 - 1
5.0	.460046 - 1	-.104641	-.489357 - 2	.100888	2 -.540643 - 2	.127549	-.844029 - 1
5.2	.459560 - 1	-.113610	-.536196 - 2	.101327	2 -.588502 - 2	.137442	-.845391 - 1
5.4	.459114 - 1	-.122944	-.585558 - 2	.101733	2 -.638799 - 2	.147700	-.846701 - 1
5.6	.458702 - 1	-.132644	-.637491 - 2	.102108	2 -.691583 - 2	.158323	-.847960 - 1
5.8	.458321 - 1	-.142709	-.692040 - 2	.102456	2 -.746900 - 2	.169310	-.849169 - 1
6.0	.457965 - 1	-.153139	-.749254 - 2	.102779	2 -.804797 - 2	.180660	-.850331 - 1
6.2	.457634 - 1	-.163934	-.809178 - 2	.103080	2 -.865321 - 2	.192374	-.851445 - 1

Z = 21, A = 49

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.330143	1	-.207602		-.144071 - 1		-.143590		-.617656 - 1		.999950		-.440454	1
.6	.258594	1	-.374835		-.261410 - 1		-.857496 - 1		-.809162 - 1		.130277	1	-.602324	1
.8	.227902	1	-.573767		-.402665 - 1		-.573191 - 1		-.998676 - 1		.159661	1	-.753140	1
1.0	.211700	1	-.793757		-.561123 - 1		-.402143 - 1		-.118752		.188310	1	-.890199	1
1.2	.202021	1	-.102728	1	-.732040 - 1		-.287221 - 1		-.137663		.216350	1	-.101405	2
1.4	.195731	1	-.126943	1	-.912314 - 1		-.204417 - 1		-.156681		.243909	1	-.112597	2
1.6	.191383	1	-.151706	1	-.109998		-.141799 - 1		-.175873		.271092	1	-.122732	2
1.8	.188229	1	-.176821	1	-.129378		-.927340 - 2		-.195291		.297983	1	-.131940	2
2.0	.185852	1	-.202162	1	-.149294		-.532255 - 2		-.214970		.324644	1	-.140334	2
2.2	.184002	1	-.227647	1	-.169694		-.207172 - 2		-.234938		.351123	1	-.148014	2
2.4	.182524	1	-.253224	1	-.190544		.650562 - 3		-.255214		.377454	1	-.155063	2
2.6	.181316	1	-.278855	1	-.211821		.296375 - 2		-.275814		.403661	1	-.161556	2
2.8	.180311	1	-.304516	1	-.233510		.495369 - 2		-.296747		.429764	1	-.167555	2
3.0	.179459	1	-.330192	1	-.255599		.668369 - 2		-.318021		.455779	1	-.173115	2
3.2	.178727	1	-.355869	1	-.278081		.820149 - 2		-.339643		.481715	1	-.178281	2
3.4	.178090	1	-.381539	1	-.300949		.954377 - 2		-.361616		.507582	1	-.183094	2
3.6	.177529	1	-.407196	1	-.324200		.107392 - 1		-.383944		.533386	1	-.187591	2
3.8	.177031	1	-.432836	1	-.347831		.118105 - 1		-.406629		.559132	1	-.191801	2
4.0	.176585	1	-.458455	1	-.371838		.127760 - 1		-.429674		.584826	1	-.195751	2
4.2	.176182	1	-.484052	1	-.396219		.136504 - 1		-.453079		.610471	1	-.199465	2
4.4	.175815	1	-.509623	1	-.420974		.144460 - 1		-.476846		.636069	1	-.202965	2
4.6	.175479	1	-.535169	1	-.446101		.151728 - 1		-.500976		.661623	1	-.206269	2
4.8	.175169	1	-.560687	1	-.471599		.158393 - 1		-.525469		.687136	1	-.209393	2
5.0	.174883	1	-.586178	1	-.497466		.164525 - 1		-.550326		.712608	1	-.212352	2
5.2	.174617	1	-.611640	1	-.523702		.170185 - 1		-.575547		.738041	1	-.215160	2
5.4	.174369	1	-.637074	1	-.550307		.175425 - 1		-.601132		.763436	1	-.217828	2
5.6	.174136	1	-.662478	1	-.577278		.180288 - 1		-.627081		.788795	1	-.220368	2
5.8	.173917	1	-.687854	1	-.604617		.184813 - 1		-.653394		.814118	1	-.222788	2
6.0	.173710	1	-.713199	1	-.632322		.189033 - 1		-.680072		.839406	1	-.225097	2
6.2	.173515	1	-.738516	1	-.660393		.192977 - 1		-.707113		.864659	1	-.227304	2

Z = 21, A = 49

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.992060 - 1	-.313056 - 3	-.124644 - 4	.261707 1	-.561777 - 4	.159396 - 2	-.177549
.6	.725148 - 1	-.841561 - 3	-.336789 - 4	.383644 1	-.106669 - 3	.300913 - 2	-.128667
.8	.624044 - 1	-.171477 - 2	-.690737 - 4	.484625 1	-.173514 - 3	.485891 - 2	-.108421
1.0	.573792 - 1	-.296498 - 2	-.120342 - 3	.566837 1	-.256691 - 3	.712705 - 2	-.984616 - 1
1.2	.544886 - 1	-.460668 - 2	-.188536 - 3	.633277 1	-.356362 - 3	.980223 - 2	-.931158 - 1
1.4	.526631 - 1	-.664537 - 2	-.274384 - 3	.687027 1	-.472833 - 3	.128774 - 1	-.901048 - 1
1.6	.514314 - 1	-.908244 - 2	-.378472 - 3	.730781 1	-.606507 - 3	.163483 - 1	-.883702 - 1
1.8	.505577 - 1	-.119176 - 1	-.501323 - 3	.766716 1	-.757841 - 3	.202123 - 1	-.873719 - 1
2.0	.499130 - 1	-.151500 - 1	-.643439 - 3	.796526 1	-.927326 - 3	.244680 - 1	-.868152 - 1
2.2	.494219 - 1	-.187785 - 1	-.805316 - 3	.821508 1	-.111547 - 2	.291144 - 1	-.865311 - 1
2.4	.490377 - 1	-.228020 - 1	-.987453 - 3	.842653 1	-.132278 - 2	.341508 - 1	-.864184 - 1
2.6	.487302 - 1	-.272196 - 1	-.119035 - 2	.860719 1	-.154979 - 2	.395767 - 1	-.864149 - 1
2.8	.484793 - 1	-.320305 - 1	-.141450 - 2	.876291 1	-.179701 - 2	.453916 - 1	-.864812 - 1
3.0	.482711 - 1	-.372337 - 1	-.166043 - 2	.889822 1	-.206497 - 2	.515953 - 1	-.865918 - 1
3.2	.480959 - 1	-.428287 - 1	-.192862 - 2	.901668 1	-.235419 - 2	.581874 - 1	-.867299 - 1
3.4	.479464 - 1	-.488147 - 1	-.221961 - 2	.912110 1	-.266519 - 2	.651676 - 1	-.868845 - 1
3.6	.478174 - 1	-.551911 - 1	-.253389 - 2	.921373 1	-.299851 - 2	.725356 - 1	-.870479 - 1
3.8	.477050 - 1	-.619575 - 1	-.287198 - 2	.929637 1	-.335465 - 2	.802911 - 1	-.872152 - 1
4.0	.476061 - 1	-.691133 - 1	-.323439 - 2	.937050 1	-.373415 - 2	.884338 - 1	-.873830 - 1
4.2	.475184 - 1	-.766579 - 1	-.362164 - 2	.943732 1	-.413753 - 2	.969634 - 1	-.875491 - 1
4.4	.474400 - 1	-.845911 - 1	-.403424 - 2	.949782 1	-.456530 - 2	.105880	-.877118 - 1
4.6	.473694 - 1	-.929122 - 1	-.447271 - 2	.955283 1	-.501799 - 2	.115182	-.878702 - 1
4.8	.473055 - 1	-.101621	-.493755 - 2	.960305 1	-.549611 - 2	.124871	-.880238 - 1
5.0	.472473 - 1	-.110717	-.542930 - 2	.964905 1	-.600019 - 2	.134945	-.881722 - 1
5.2	.471940 - 1	-.120200	-.594845 - 2	.969133 1	-.653074 - 2	.145404	-.883152 - 1
5.4	.471450 - 1	-.130069	-.649553 - 2	.973032 1	-.708829 - 2	.156249	-.884528 - 1
5.6	.470997 - 1	-.140324	-.707105 - 2	.976637 1	-.767334 - 2	.167478	-.885851 - 1
5.8	.470577 - 1	-.150965	-.767552 - 2	.979980 1	-.828642 - 2	.179092	-.887122 - 1
6.0	.470186 - 1	-.161991	-.830946 - 2	.983087 1	-.892804 - 2	.191090	-.888342 - 1
6.2	.469820 - 1	-.173402	-.897338 - 2	.985983 1	-.959872 - 2	.203472	-.889513 - 1

Z = 22, A = 48

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.348124	1 -.214467	-.155036 - 1	-.149717	-.663937 - 1	.102601	1 -.421265	1
.6	.270877	1 -.384699	-.279404 - 1	-.888447 - 1	-.866675 - 1	.133231	1 -.572814	1
.8	.237719	1 -.586871	-.428803 - 1	-.590077 - 1	-.106702	.162936	1 -.714233	1
1.0	.220212	1 -.810259	-.596153 - 1	-.410741 - 1	-.126653	.191909	1 -.842594	1
1.2	.209749	1 -.104728	1 -.776452 - 1	-.290301 - 1	-.146619	.220280	1 -.958374	1
1.4	.202946	1 -.129297	1 -.966426 - 1	-.203538 - 1	-.166684	.248173	1 -.106280	2
1.6	.198239	1 -.154418	1 -.116400	-.137932 - 1	-.186917	.275693	1 -.115719	2
1.8	.194821	1 -.179892	1 -.136785	-.865270 - 2	-.207371	.302922	1 -.124280	2
2.0	.192241	1 -.205591	1 -.157715	-.451353 - 2	-.228082	.329923	1 -.132071	2
2.2	.190231	1 -.231433	1 -.179135	-.110779 - 2	-.249081	.356741	1 -.139188	2
2.4	.188623	1 -.257364	1 -.201010	.174422 - 2	-.270385	.383410	1 -.145713	2
2.6	.187308	1 -.283349	1 -.223315	.416764 - 2	-.292012	.409955	1 -.151714	2
2.8	.186210	1 -.309362	1 -.246034	.625241 - 2	-.313970	.436394	1 -.157252	2
3.0	.185279	1 -.335387	1 -.269155	.806485 - 2	-.336269	.462743	1 -.162379	2
3.2	.184478	1 -.361411	1 -.292670	.965497 - 2	-.358915	.489012	1 -.167138	2
3.4	.183780	1 -.387426	1 -.316573	.110612 - 1	-.381911	.515209	1 -.171569	2
3.6	.183165	1 -.413426	1 -.340858	.123136 - 1	-.405262	.541342	1 -.175703	2
3.8	.182618	1 -.439406	1 -.365524	.134360 - 1	-.428970	.567417	1 -.179571	2
4.0	.182127	1 -.465363	1 -.390567	.144474 - 1	-.453037	.593436	1 -.183197	2
4.2	.181682	1 -.491295	1 -.415984	.153635 - 1	-.477465	.619404	1 -.186605	2
4.4	.181277	1 -.517200	1 -.441775	.161969 - 1	-.502254	.645324	1 -.189813	2
4.6	.180907	1 -.543077	1 -.467938	.169583 - 1	-.527406	.671198	1 -.192840	2
4.8	.180565	1 -.568924	1 -.494471	.176565 - 1	-.552921	.697028	1 -.195700	2
5.0	.180248	1 -.594741	1 -.521375	.182989 - 1	-.578799	.722816	1 -.198408	2
5.2	.179953	1 -.620528	1 -.548647	.188919 - 1	-.605042	.748563	1 -.200976	2
5.4	.179678	1 -.646284	1 -.576288	.194408 - 1	-.631648	.774270	1 -.203415	2
5.6	.179420	1 -.672008	1 -.604295	.199502 - 1	-.658619	.799939	1 -.205735	2
5.8	.179177	1 -.697702	1 -.632670	.204242 - 1	-.685954	.825571	1 -.207945	2
6.0	.178947	1 -.723364	1 -.661411	.208662 - 1	-.713652	.851165	1 -.210054	2
6.2	.178730	1 -.748994	1 -.690518	.212793 - 1	-.741715	.876724	1 -.212067	2

Z = 22, A = 48

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.105302	-.320860 - 3	-.133018 - 4	.248929	1	-.601976 - 4	.163064 - 2	-.186039
.6	.760038 - 1	-.856293 - 3	-.356729 - 4	.366076	1	-.113548 - 3	.305898 - 2	-.134464
.8	.649885 - 1	-.173859 - 2	-.728821 - 4	.463045	1	-.184042 - 3	.492357 - 2	-.113168
1.0	.595340 - 1	-.300011 - 2	-.126677 - 3	.542010	1	-.271645 - 3	.720851 - 2	-.102704
1.2	.564028 - 1	-.465537 - 2	-.198136 - 3	.605851	1	-.376503 - 3	.990268 - 2	-.970904 - 1
1.4	.544274 - 1	-.670991 - 2	-.287999 - 3	.657518	1	-.498916 - 3	.129991 - 1	-.939297 - 1
1.6	.530951 - 1	-.916515 - 2	-.396852 - 3	.699592	1	-.639280 - 3	.164935 - 1	-.921090 - 1
1.8	.521502 - 1	-.120208 - 1	-.525220 - 3	.734157	1	-.798048 - 3	.203835 - 1	-.910611 - 1
2.0	.514529 - 1	-.152760 - 1	-.673601 - 3	.762837	1	-.975707 - 3	.246674 - 1	-.904767 - 1
2.2	.509215 - 1	-.189296 - 1	-.842491 - 3	.786878	1	-.117276 - 2	.293443 - 1	-.901783 - 1
2.4	.505054 - 1	-.229805 - 1	-.103238 - 2	.807231	1	-.138972 - 2	.344134 - 1	-.900598 - 1
2.6	.501723 - 1	-.274278 - 1	-.124377 - 2	.824623	1	-.162711 - 2	.398743 - 1	-.900559 - 1
2.8	.499003 - 1	-.322706 - 1	-.147716 - 2	.839616	1	-.188544 - 2	.457266 - 1	-.901252 - 1
3.0	.496745 - 1	-.375080 - 1	-.173306 - 2	.852645	1	-.216524 - 2	.519698 - 1	-.902410 - 1
3.2	.494842 - 1	-.431394 - 1	-.201196 - 2	.864053	1	-.246703 - 2	.586035 - 1	-.903857 - 1
3.4	.493218 - 1	-.491640 - 1	-.231438 - 2	.874110	1	-.279134 - 2	.656276 - 1	-.905476 - 1
3.6	.491815 - 1	-.555812 - 1	-.264082 - 2	.883032	1	-.313867 - 2	.730416 - 1	-.907189 - 1
3.8	.490591 - 1	-.623905 - 1	-.299180 - 2	.890993	1	-.350956 - 2	.808452 - 1	-.908942 - 1
4.0	.489513 - 1	-.695913 - 1	-.336782 - 2	.898134	1	-.390452 - 2	.890382 - 1	-.910701 - 1
4.2	.488556 - 1	-.771832 - 1	-.376941 - 2	.904571	1	-.432408 - 2	.976201 - 1	-.912441 - 1
4.4	.487700 - 1	-.851656 - 1	-.419706 - 2	.910400	1	-.476874 - 2	.106591	-.914146 - 1
4.6	.486929 - 1	-.935381 - 1	-.465130 - 2	.915701	1	-.523904 - 2	.115950	-.915807 - 1
4.8	.486230 - 1	-.102300	-.513263 - 2	.920539	1	-.573549 - 2	.125697	-.917417 - 1
5.0	.485593 - 1	-.111452	-.564157 - 2	.924972	1	-.625860 - 2	.135831	-.918972 - 1
5.2	.485009 - 1	-.120992	-.617864 - 2	.929046	1	-.680889 - 2	.146353	-.920471 - 1
5.4	.484472 - 1	-.130921	-.674433 - 2	.932803	1	-.738688 - 2	.157262	-.921914 - 1
5.6	.483975 - 1	-.141237	-.733918 - 2	.936277	1	-.799308 - 2	.168558	-.923300 - 1
5.8	.483514 - 1	-.151941	-.796367 - 2	.939499	1	-.862802 - 2	.180240	-.924632 - 1
6.0	.483084 - 1	-.163033	-.861834 - 2	.942494	1	-.929219 - 2	.192309	-.925911 - 1
6.2	.482681 - 1	-.174511	-.930369 - 2	.945285	1	-.998612 - 2	.204762	-.927139 - 1

Z = 23, A = 51

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.366730	1	-.221487		-.166998	- 1	-.155786		-.711912	- 1	.105213	1	-.403827	1
.6	.283570	1	-.394729		-.298992	- 1	-.918444	- 1	-.926277	- 1	.136195	1	-.545904	1
.8	.247843	1	-.600145		-.457262	- 1	-.605941	- 1	-.113790		.166222	1	-.678750	1
1.0	.228974	1	-.826925		-.634354	- 1	-.418303	- 1	-.134860		.195515	1	-.799198	1
1.2	.217692	1	-.106743	1	-.825000	- 1	-.292340	- 1	-.155945		.224211	1	-.907653	1
1.4	.210352	1	-.131664	1	-.102575		-.201616	- 1	-.177131		.252432	1	-.100529	2
1.6	.205268	1	-.157140	1	-.123440		-.133022	- 1	-.198490		.280283	1	-.109339	2
1.8	.201572	1	-.182967	1	-.144959		-.792779	- 2	-.220075		.307844	1	-.117316	2
2.0	.198780	1	-.209019	1	-.167042		-.360041	- 2	-.241926		.335176	1	-.124564	2
2.2	.196601	1	-.235213	1	-.189631		-.398679	- 4	-.264072		.362323	1	-.131176	2
2.4	.194856	1	-.261493	1	-.212690		.294173	- 2	-.286532		.389321	1	-.137229	2
2.6	.193426	1	-.287824	1	-.236192		.547521	- 2	-.309322		.416192	1	-.142790	2
2.8	.192231	1	-.314181	1	-.260121		.765463	- 2	-.332454		.442956	1	-.147916	2
3.0	.191216	1	-.340546	1	-.284463		.954931	- 2	-.355936		.469627	1	-.152656	2
3.2	.190342	1	-.366907	1	-.309210		.112115	- 1	-.379774		.496216	1	-.157052	2
3.4	.189579	1	-.393257	1	-.334356		.126815	- 1	-.403972		.522731	1	-.161140	2
3.6	.188906	1	-.419587	1	-.359895		.139906	- 1	-.428534		.549179	1	-.164953	2
3.8	.188306	1	-.445095	1	-.385825		.151637	- 1	-.453463		.575565	1	-.168517	2
4.0	.187767	1	-.472177	1	-.412142		.162209	- 1	-.478761		.601894	1	-.171856	2
4.2	.187279	1	-.498431	1	-.438844		.171783	- 1	-.504429		.628169	1	-.174992	2
4.4	.186834	1	-.524655	1	-.465929		.180493	- 1	-.530468		.654393	1	-.177943	2
4.6	.186426	1	-.550847	1	-.493396		.188450	- 1	-.556880		.680569	1	-.180725	2
4.8	.186049	1	-.577007	1	-.521243		.195745	- 1	-.583665		.706697	1	-.183352	2
5.0	.185699	1	-.603133	1	-.549470		.202457	- 1	-.610823		.732781	1	-.185839	2
5.2	.185374	1	-.629227	1	-.578076		.208652	- 1	-.638354		.758822	1	-.188196	2
5.4	.185070	1	-.655286	1	-.607060		.214386	- 1	-.666260		.784820	1	-.190434	2
5.6	.184784	1	-.681312	1	-.636420		.219707	- 1	-.694539		.810777	1	-.192562	2
5.8	.184515	1	-.707303	1	-.666157		.224658	- 1	-.723191		.836694	1	-.194589	2
6.0	.184261	1	-.733260	1	-.696270		.229274	- 1	-.752218		.862571	1	-.196521	2
6.2	.184021	1	-.759183	1	-.726757		.233587	- 1	-.781617		.888410	1	-.198367	2

Z = 23, A = 51

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.111722	-.337826 - 3	-.146035 - 4	.237209	1	-.661320 - 4	.171351 - 2	-.194555
.6	.796405 - 1	-.895095 - 3	-.388784 - 4	.350005	1	-.123951 - 3	.319450 - 2	-.140235
.8	.676669 - 1	-.181095 - 2	-.791402 - 4	.443322	1	-.200235 - 3	.512537 - 2	-.117877
1.0	.617598 - 1	-.311867 - 2	-.137257 - 3	.519332	1	-.294944 - 3	.749013 - 2	-.106905
1.2	.583755 - 1	-.483323 - 2	-.214377 - 3	.580807	1	-.408235 - 3	.102775 - 1	-.101023
1.4	.562425 - 1	-.696032 - 2	-.311286 - 3	.630579	1	-.540420 - 3	.134805 - 1	-.977111 - 1
1.6	.548047 - 1	-.950143 - 2	-.428604 - 3	.671122	1	-.691917 - 3	.170947 - 1	-.958039 - 1
1.8	.537851 - 1	-.124563 - 1	-.566885 - 3	.704441	1	-.863201 - 3	.211175 - 1	-.947062 - 1
2.0	.530325 - 1	-.158239 - 1	-.726653 - 3	.732094	1	-.105478 - 2	.255475 - 1	-.940939 - 1
2.2	.524587 - 1	-.196032 - 1	-.908428 - 3	.755280	1	-.126720 - 2	.303835 - 1	-.937811 - 1
2.4	.520093 - 1	-.237929 - 1	-.111273 - 2	.774911	1	-.150097 - 2	.356247 - 1	-.936567 - 1
2.6	.516492 - 1	-.283922 - 1	-.134008 - 2	.791690	1	-.175667 - 2	.412707 - 1	-.936524 - 1
2.8	.513550 - 1	-.334000 - 1	-.159101 - 2	.806156	1	-.203482 - 2	.473208 - 1	-.937247 - 1
3.0	.511105 - 1	-.388154 - 1	-.186604 - 2	.818730	1	-.233598 - 2	.537748 - 1	-.938457 - 1
3.2	.509044 - 1	-.446378 - 1	-.216570 - 2	.829740	1	-.266069 - 2	.606323 - 1	-.939969 - 1
3.4	.507282 - 1	-.508663 - 1	-.249054 - 2	.839446	1	-.300952 - 2	.678928 - 1	-.941662 - 1
3.6	.505760 - 1	-.575003 - 1	-.284107 - 2	.848058	1	-.338299 - 2	.755560 - 1	-.943453 - 1
3.8	.504431 - 1	-.645392 - 1	-.321785 - 2	.855743	1	-.378167 - 2	.836215 - 1	-.945287 - 1
4.0	.503259 - 1	-.719824 - 1	-.362140 - 2	.862637	1	-.420609 - 2	.920890 - 1	-.947126 - 1
4.2	.502218 - 1	-.798294 - 1	-.405227 - 2	.868852	1	-.465681 - 2	.100958	-.948946 - 1
4.4	.501285 - 1	-.880796 - 1	-.451099 - 2	.874480	1	-.513436 - 2	.110229	-.950730 - 1
4.6	.500445 - 1	-.967326 - 1	-.499810 - 2	.879598	1	-.563930 - 2	.119900	-.952467 - 1
4.8	.499682 - 1	-.105788	-.551414 - 2	.884270	1	-.617217 - 2	.129972	-.954151 - 1
5.0	.498987 - 1	-.115245	-.605965 - 2	.888551	1	-.673351 - 2	.140444	-.955778 - 1
5.2	.498349 - 1	-.125103	-.663517 - 2	.892486	1	-.732386 - 2	.151316	-.957346 - 1
5.4	.497761 - 1	-.135363	-.724123 - 2	.896114	1	-.794377 - 2	.162587	-.958855 - 1
5.6	.497217 - 1	-.146022	-.787837 - 2	.899469	1	-.859378 - 2	.174257	-.960306 - 1
5.8	.496712 - 1	-.157082	-.854714 - 2	.902580	1	-.927442 - 2	.186326	-.961699 - 1
6.0	.496240 - 1	-.168542	-.924806 - 2	.905473	1	-.998625 - 2	.198794	-.963037 - 1
6.2	.495799 - 1	-.180400	-.998168 - 2	.908168	1	-.107298 - 1	.211659	-.964321 - 1

Z = 24, A = 52

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.386376	1	-.228798		-.179382	- 1	-.161797		-.761919	- 1	.107898	1	-.387915	1
.6	.296994	1	-.405165		-.319075	- 1	-.947478	- 1	-.988234	- 1	.139257	1	-.521264	1
.8	.258552	1	-.613955		-.486258	- 1	-.620773	- 1	-.121134		.169624	1	-.646256	1
1.0	.238241	1	-.844266		-.673094	- 1	-.424814	- 1	-.143340		.199256	1	-.759476	1
1.2	.226091	1	-.108839	1	-.874041	- 1	-.293323	- 1	-.165553		.228293	1	-.861256	1
1.4	.218180	1	-.134128	1	-.108547		-.198636	- 1	-.187864		.256859	1	-.952720	1
1.6	.212696	1	-.159973	1	-.130507		-.127052	- 1	-.210348		.285055	1	-.103511	2
1.8	.208705	1	-.186170	1	-.153140		-.709685	- 2	-.233059		.312963	1	-.110958	2
2.0	.205686	1	-.212590	1	-.176350		-.258118	- 2	-.256037		.340641	1	-.117715	2
2.2	.203327	1	-.239150	1	-.200080		.113424	- 2	-.279312		.368135	1	-.123869	2
2.4	.201435	1	-.265795	1	-.224288		.424551	- 2	-.302906		.395476	1	-.129496	2
2.6	.199882	1	-.292488	1	-.248947		.688916	- 2	-.326833		.422690	1	-.134659	2
2.8	.198584	1	-.319203	1	-.274039		.916332	- 2	-.351105		.449794	1	-.139414	2
3.0	.197479	1	-.345924	1	-.299552		.111404	- 1	-.375732		.476803	1	-.143806	2
3.2	.196526	1	-.372638	1	-.325476		.128748	- 1	-.400718		.503720	1	-.147875	2
3.4	.195693	1	-.399337	1	-.351803		.144086	- 1	-.426069		.530576	1	-.151656	2
3.6	.194957	1	-.426015	1	-.378530		.157745	- 1	-.451789		.557355	1	-.155179	2
3.8	.194301	1	-.452667	1	-.405652		.169986	- 1	-.477880		.584070	1	-.158470	2
4.0	.193710	1	-.479290	1	-.433166		.181015	- 1	-.504344		.610725	1	-.161552	2
4.2	.193175	1	-.505881	1	-.461071		.191004	- 1	-.531184		.637323	1	-.164443	2
4.4	.192686	1	-.532440	1	-.489363		.200091	- 1	-.558399		.663868	1	-.167163	2
4.6	.192237	1	-.558964	1	-.518042		.208392	- 1	-.585991		.690362	1	-.169725	2
4.8	.191823	1	-.585453	1	-.547106		.216003	- 1	-.613961		.716806	1	-.172144	2
5.0	.191438	1	-.611906	1	-.576555		.223004	- 1	-.642308		.743204	1	-.174433	2
5.2	.191080	1	-.638323	1	-.606387		.229466	- 1	-.671034		.769555	1	-.176601	2
5.4	.190744	1	-.664704	1	-.636601		.235446	- 1	-.700139		.795862	1	-.178658	2
5.6	.190429	1	-.691047	1	-.667197		.240996	- 1	-.729621		.822125	1	-.180614	2
5.8	.190132	1	-.717354	1	-.698173		.246159	- 1	-.759482		.848345	1	-.182475	2
6.0	.189851	1	-.743624	1	-.729530		.250972	- 1	-.789721		.874524	1	-.184250	2
6.2	.189585	1	-.769857	1	-.761266		.255469	- 1	-.820338		.900661	1	-.185944	2

Z = 24, A = 52

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.118543	-.350880 - 3	-.157666 - 4	.226415 1	-.715247 - 4	.177611 - 2	-.203100
.6	.834742 - 1	-.923061 - 3	-.416696 - 4	.335244 1	-.133216 - 3	.329098 - 2	-.145983
.8	.704796 - 1	-.186097 - 2	-.845077 - 4	.425226 1	-.214473 - 3	.526359 - 2	-.122550
1.0	.640922 - 1	-.319837 - 2	-.146239 - 3	.498534 1	-.315253 - 3	.767806 - 2	-.111066
1.2	.604398 - 1	-.495047 - 2	-.228063 - 3	.557848 1	-.435709 - 3	.105232 - 1	-.104912
1.4	.581404 - 1	-.712310 - 2	-.330794 - 3	.605887 1	-.576157 - 3	.137918 - 1	-.101449
1.6	.565910 - 1	-.971777 - 2	-.455071 - 3	.645034 1	-.737019 - 3	.174797 - 1	-.994547 - 1
1.8	.554923 - 1	-.127342 - 1	-.601461 - 3	.677214 1	-.918784 - 3	.215841 - 1	-.983069 - 1
2.0	.546812 - 1	-.161713 - 1	-.770502 - 3	.703929 1	-.112197 - 2	.261036 - 1	-.976666 - 1
2.2	.540626 - 1	-.200281 - 1	-.962725 - 3	.726333 1	-.134712 - 2	.310369 - 1	-.973394 - 1
2.4	.535779 - 1	-.243033 - 1	-.117866 - 2	.745307 1	-.159479 - 2	.363833 - 1	-.972091 - 1
2.6	.531893 - 1	-.289959 - 1	-.141884 - 2	.761526 1	-.186553 - 2	.421422 - 1	-.972042 - 1
2.8	.528715 - 1	-.341048 - 1	-.168381 - 2	.775511 1	-.215991 - 2	.483131 - 1	-.972795 - 1
3.0	.526073 - 1	-.396292 - 1	-.197410 - 2	.787668 1	-.247848 - 2	.548955 - 1	-.974056 - 1
3.2	.523843 - 1	-.455682 - 1	-.229026 - 2	.798315 1	-.282180 - 2	.618890 - 1	-.975634 - 1
3.4	.521937 - 1	-.519211 - 1	-.263283 - 2	.807702 1	-.319045 - 2	.692932 - 1	-.977401 - 1
3.6	.520287 - 1	-.586872 - 1	-.300236 - 2	.816032 1	-.358496 - 2	.771078 - 1	-.979270 - 1
3.8	.518846 - 1	-.658659 - 1	-.339939 - 2	.823465 1	-.400592 - 2	.853322 - 1	-.981185 - 1
4.0	.517574 - 1	-.734565 - 1	-.382448 - 2	.830134 1	-.445387 - 2	.939662 - 1	-.983105 - 1
4.2	.516443 - 1	-.814584 - 1	-.427818 - 2	.836146 1	-.492937 - 2	.103009	-.985005 - 1
4.4	.515429 - 1	-.898712 - 1	-.476104 - 2	.841591 1	-.543299 - 2	.112461	-.986867 - 1
4.6	.514515 - 1	-.986942 - 1	-.527360 - 2	.846542 1	-.596527 - 2	.122321	-.988681 - 1
4.8	.513684 - 1	-.107927	-.581641 - 2	.851062 1	-.652678 - 2	.132589	-.990439 - 1
5.0	.512926 - 1	-.117569	-.639004 - 2	.855204 1	-.711808 - 2	.143265	-.992137 - 1
5.2	.512230 - 1	-.127620	-.699502 - 2	.859011 1	-.773970 - 2	.154348	-.993775 - 1
5.4	.511589 - 1	-.138079	-.763191 - 2	.862522 1	-.839222 - 2	.165838	-.995350 - 1
5.6	.510994 - 1	-.148946	-.830126 - 2	.865769 1	-.907619 - 2	.177734	-.996865 - 1
5.8	.510442 - 1	-.160220	-.900362 - 2	.868780 1	-.979215 - 2	.190036	-.998320 - 1
6.0	.509926 - 1	-.171901	-.973954 - 2	.871579 1	-.105407 - 1	.202743	-.999717 - 1
6.2	.509443 - 1	-.183989	-.105096 - 1	.874188 1	-.113223 - 1	.215856	-.100106

Z = 25, A = 55

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.406817	1	-.236314		-.192616	- 1	-.167750		-.813773	- 1	.110608	1	-.373347	1
.6	.310959	1	-.415849		-.340437	- 1	-.975539	- 1	-.105243		.142356	1	-.498620	1
.8	.269678	1	-.628052		-.517034	- 1	-.634562	- 1	-.128740		.173068	1	-.616391	1
1.0	.247856	1	-.861931		-.714181	- 1	-.430264	- 1	-.152121		.203041	1	-.722988	1
1.2	.234795	1	-.110971	1	-.926057	- 1	-.293240	- 1	-.175508		.232421	1	-.818665	1
1.4	.226284	1	-.136630	1	-.114885		-.194589	- 1	-.198996		.261331	1	-.904497	1
1.6	.220379	1	-.162846	1	-.138013		-.120015	- 1	-.222660		.289874	1	-.981683	1
1.8	.216077	1	-.189414	1	-.161837		-.615915	- 2	-.246557		.318127	1	-.105134	2
2.0	.212818	1	-.216203	1	-.186260		-.145524	- 2	-.270728		.346151	1	-.111444	2
2.2	.210269	1	-.243130	1	-.211217		.241500	- 2	-.295204		.373988	1	-.117184	2
2.4	.208222	1	-.270139	1	-.236666		.565586	- 2	-.320006		.401670	1	-.122426	2
2.6	.206539	1	-.297192	1	-.262580		.840959	- 2	-.345150		.429223	1	-.127230	2
2.8	.205130	1	-.324265	1	-.288939		.107784	- 1	-.370649		.456664	1	-.131649	2
3.0	.203929	1	-.351340	1	-.315729		.128377	- 1	-.396510		.484007	1	-.135727	2
3.2	.202892	1	-.378404	1	-.342940		.146442	- 1	-.422740		.511263	1	-.139502	2
3.4	.201985	1	-.405450	1	-.370566		.162417	- 1	-.449344		.538440	1	-.143007	2
3.6	.201182	1	-.432471	1	-.398601		.176643	- 1	-.476326		.565544	1	-.146271	2
3.8	.200465	1	-.459463	1	-.427041		.189391	- 1	-.503688		.592581	1	-.149317	2
4.0	.199820	1	-.486422	1	-.455883		.200877	- 1	-.531433		.619555	1	-.152167	2
4.2	.199234	1	-.513346	1	-.485124		.211279	- 1	-.559562		.646470	1	-.154840	2
4.4	.198698	1	-.540234	1	-.514763		.220741	- 1	-.588077		.673328	1	-.157353	2
4.6	.198206	1	-.567084	1	-.544798		.229384	- 1	-.616977		.700132	1	-.159719	2
4.8	.197751	1	-.593896	1	-.575227		.237307	- 1	-.646265		.726884	1	-.161952	2
5.0	.197329	1	-.620668	1	-.606050		.244596	- 1	-.675939		.753585	1	-.164064	2
5.2	.196934	1	-.647401	1	-.637265		.251322	- 1	-.706001		.780238	1	-.166063	2
5.4	.196565	1	-.674094	1	-.668872		.257547	- 1	-.736450		.806843	1	-.167960	2
5.6	.196218	1	-.700747	1	-.700869		.263322	- 1	-.767287		.833401	1	-.169763	2
5.8	.195891	1	-.727360	1	-.733256		.268694	- 1	-.798512		.859914	1	-.171478	2
6.0	.195581	1	-.753934	1	-.766032		.273702	- 1	-.830124		.886382	1	-.173113	2
6.2	.195288	1	-.780467	1	-.799197		.278381	- 1	-.862122		.912807	1	-.174674	2

Z = 25, A = 55

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.125743	-.368887 - 3	-.172276 - 4	.216436	1	-.781648 - 4	.186331 - 2	-.211677
.6	.874831 - 1	-.963576 - 3	-.452054 - 4	.321636	1	-.144692 - 3	.343182 - 2	-.151706
.8	.734062 - 1	-.193585 - 2	-.913472 - 4	.408561	1	-.232192 - 3	.547177 - 2	-.127187
1.0	.665116 - 1	-.332039 - 2	-.157737 - 3	.479393	1	-.340623 - 3	.796722 - 2	-.115185
1.2	.625768 - 1	-.513286 - 2	-.245649 - 3	.536723	1	-.470144 - 3	.109068 - 1	-.108759
1.4	.601021 - 1	-.737923 - 2	-.355944 - 3	.583175	1	-.621087 - 3	.142834 - 1	-.105143
1.6	.584354 - 1	-.100611 - 1	-.489296 - 3	.621041	1	-.793895 - 3	.180925 - 1	-.103061
1.8	.572536 - 1	-.131781 - 1	-.646300 - 3	.652178	1	-.989078 - 3	.223315 - 1	-.101863
2.0	.563811 - 1	-.167292 - 1	-.827522 - 3	.678034	1	-.120718 - 2	.269987 - 1	-.101195
2.2	.557153 - 1	-.207132 - 1	-.103352 - 2	.699721	1	-.144877 - 2	.320929 - 1	-.100853
2.4	.551934 - 1	-.251290 - 1	-.126484 - 2	.718092	1	-.171443 - 2	.376133 - 1	-.100716
2.6	.547747 - 1	-.299753 - 1	-.152206 - 2	.733798	1	-.200474 - 2	.435592 - 1	-.100711
2.8	.544322 - 1	-.352511 - 1	-.180572 - 2	.747344	1	-.232029 - 2	.499301 - 1	-.100789
3.0	.541471 - 1	-.409555 - 1	-.211640 - 2	.759120	1	-.266166 - 2	.567254 - 1	-.100921
3.2	.539064 - 1	-.470875 - 1	-.245467 - 2	.769434	1	-.302944 - 2	.639447 - 1	-.101085
3.4	.537003 - 1	-.536465 - 1	-.282110 - 2	.778529	1	-.342423 - 2	.715876 - 1	-.101269
3.6	.535220 - 1	-.606315 - 1	-.321625 - 2	.786599	1	-.384660 - 2	.796536 - 1	-.101464
3.8	.533659 - 1	-.680420 - 1	-.364071 - 2	.793802	1	-.429714 - 2	.881423 - 1	-.101663
4.0	.532282 - 1	-.758772 - 1	-.409505 - 2	.800265	1	-.477645 - 2	.970532 - 1	-.101863
4.2	.531056 - 1	-.841366 - 1	-.457984 - 2	.806091	1	-.528510 - 2	.106386	-.102061
4.4	.529956 - 1	-.928195 - 1	-.509566 - 2	.811369	1	-.582368 - 2	.116140	-.102255
4.6	.528962 - 1	-.101925	-.564309 - 2	.816168	1	-.639278 - 2	.126315	-.102444
4.8	.528060 - 1	-.111454	-.622271 - 2	.820549	1	-.699297 - 2	.136910	-.102628
5.0	.527235 - 1	-.121404	-.683508 - 2	.824564	1	-.762484 - 2	.147926	-.102805
5.2	.526477 - 1	-.131775	-.748079 - 2	.828255	1	-.828897 - 2	.159361	-.102975
5.4	.525778 - 1	-.142568	-.816042 - 2	.831658	1	-.898594 - 2	.171216	-.103140
5.6	.525130 - 1	-.153780	-.887453 - 2	.834806	1	-.971633 - 2	.183489	-.103298
5.8	.524527 - 1	-.165413	-.962371 - 2	.837725	1	-.104807 - 1	.196180	-.103449
6.0	.523964 - 1	-.177464	-.104085 - 1	.840439	1	-.112797 - 1	.209290	-.103595
6.2	.523437 - 1	-.189935	-.112296 - 1	.842968	1	-.121138 - 1	.222817	-.103735

Z = 26, A = 56

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.428421	1	-.244147		-.206340	- 1	-.173645		-.867813	- 1	.113396	1	-.359963	1
.6	.325743	1	-.426975		-.362391	- 1	-.100262		-.111918		.145560	1	-.477738	1
.8	.281460	1	-.642732		-.548477	- 1	-.647294	- 1	-.136628		.176638	1	-.588849	1
1.0	.258038	1	-.880329		-.755972	- 1	-.434639	- 1	-.161203		.206971	1	-.689355	1
1.2	.244010	1	-.113192	1	-.978771	- 1	-.292076	- 1	-.185777		.236711	1	-.779432	1
1.4	.234862	1	-.139237	1	-.121287		-.189458	- 1	-.210449		.265984	1	-.860107	1
1.6	.228508	1	-.165840	1	-.145574		-.111893	- 1	-.235296		.294889	1	-.932536	1
1.8	.223875	1	-.192795	1	-.170575		-.511295	- 2	-.260377		.323505	1	-.997796	1
2.0	.220361	1	-.219970	1	-.196188		-.220707	- 3	-.285733		.351890	1	-.105683	2
2.2	.217608	1	-.247280	1	-.222348		.380445	- 2	-.311397		.380087	1	-.111046	2
2.4	.215394	1	-.274669	1	-.249009		.717501	- 2	-.337389		.408128	1	-.115938	2
2.6	.213573	1	-.302100	1	-.276142		.100389	- 1	-.363727		.436037	1	-.120415	2
2.8	.212045	1	-.329546	1	-.303726		.125025	- 1	-.390423		.463831	1	-.124530	2
3.0	.210742	1	-.356992	1	-.331748		.146441	- 1	-.417485		.491525	1	-.128323	2
3.2	.209614	1	-.384423	1	-.360197		.165229	- 1	-.444921		.519129	1	-.131832	2
3.4	.208627	1	-.411833	1	-.389065		.181843	- 1	-.472734		.546651	1	-.135087	2
3.6	.207752	1	-.439214	1	-.418347		.196637	- 1	-.500929		.574098	1	-.138115	2
3.8	.206970	1	-.466562	1	-.448039		.209893	- 1	-.529509		.601474	1	-.140940	2
4.0	.206265	1	-.493874	1	-.478137		.221838	- 1	-.558476		.628785	1	-.143581	2
4.2	.205625	1	-.521149	1	-.508640		.232654	- 1	-.587831		.656034	1	-.146056	2
4.4	.205039	1	-.548383	1	-.539544		.242492	- 1	-.617576		.683223	1	-.148382	2
4.6	.204500	1	-.575577	1	-.570849		.251479	- 1	-.647711		.710355	1	-.150571	2
4.8	.204001	1	-.602729	1	-.602553		.259717	- 1	-.678237		.737433	1	-.152636	2
5.0	.203537	1	-.629838	1	-.634654		.267294	- 1	-.709155		.764457	1	-.154588	2
5.2	.203105	1	-.656905	1	-.667152		.274287	- 1	-.740465		.791430	1	-.156435	2
5.4	.202699	1	-.683929	1	-.700046		.280757	- 1	-.772166		.818352	1	-.158187	2
5.6	.202318	1	-.710911	1	-.733334		.286760	- 1	-.804259		.845225	1	-.159851	2
5.8	.201958	1	-.737849	1	-.767017		.292344	- 1	-.836744		.872049	1	-.161435	2
6.0	.201617	1	-.764744	1	-.801092		.297548	- 1	-.869621		.898827	1	-.162943	2
6.2	.201293	1	-.791596	1	-.835561		.302410	- 1	-.902889		.925558	1	-.164382	2

Z = 26, A = 56

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.133393	-.382978 - 3	-.185391 - 4	.207177	1	-.842103 - 4	.193026 - 2	-.220289
.6	.917114 - 1	-.993375 - 3	-.482997 - 4	.309048	1	-.154936 - 3	.353409 - 2	-.157406
.8	.764814 - 1	-.198877 - 2	-.972439 - 4	.393162	1	-.247815 - 3	.561751 - 2	-.131787
1.0	.690486 - 1	-.340435 - 2	-.167552 - 3	.461716	1	-.362799 - 3	.816467 - 2	-.119264
1.2	.648148 - 1	-.525601 - 2	-.260550 - 3	.517223	1	-.500048 - 3	.111643 - 1	-.112562
1.4	.621547 - 1	-.754984 - 2	-.377129 - 3	.562215	1	-.659894 - 3	.146091 - 1	-.108793
1.6	.603639 - 1	-.102874 - 1	-.517984 - 3	.598903	1	-.842790 - 3	.184948 - 1	-.106623
1.8	.590943 - 1	-.134685 - 1	-.683725 - 3	.629080	1	-.104925 - 2	.228185 - 1	-.105375
2.0	.581567 - 1	-.170919 - 1	-.874927 - 3	.654146	1	-.127984 - 2	.275785 - 1	-.104678
2.2	.574412 - 1	-.211564 - 1	-.109216 - 2	.675176	1	-.153514 - 2	.327737 - 1	-.104321
2.4	.568799 - 1	-.256609 - 1	-.133599 - 2	.692993	1	-.181573 - 2	.384031 - 1	-.104179
2.6	.564294 - 1	-.306040 - 1	-.160699 - 2	.708228	1	-.212221 - 2	.444660 - 1	-.104173
2.8	.560605 - 1	-.359847 - 1	-.190574 - 2	.721369	1	-.245518 - 2	.509619 - 1	-.104254
3.0	.557534 - 1	-.418020 - 1	-.223280 - 2	.732795	1	-.281524 - 2	.578903 - 1	-.104390
3.2	.554938 - 1	-.480550 - 1	-.258877 - 2	.742804	1	-.320300 - 2	.652505 - 1	-.104561
3.4	.552714 - 1	-.547428 - 1	-.297422 - 2	.751630	1	-.361905 - 2	.730421 - 1	-.104753
3.6	.550787 - 1	-.618646 - 1	-.338974 - 2	.759463	1	-.406399 - 2	.812647 - 1	-.104955
3.8	.549101 - 1	-.694198 - 1	-.383591 - 2	.766455	1	-.453842 - 2	.899177 - 1	-.105163
4.0	.547611 - 1	-.774075 - 1	-.431332 - 2	.772728	1	-.504294 - 2	.990008 - 1	-.105371
4.2	.546283 - 1	-.858272 - 1	-.482257 - 2	.778384	1	-.557815 - 2	.108513	-.105577
4.4	.545091 - 1	-.946782 - 1	-.536423 - 2	.783508	1	-.614464 - 2	.118455	-.105779
4.6	.544014 - 1	-.103960	-.593890 - 2	.788167	1	-.674301 - 2	.128825	-.105976
4.8	.543034 - 1	-.113672	-.654716 - 2	.792421	1	-.737386 - 2	.139623	-.106166
5.0	.542138 - 1	-.123813	-.718961 - 2	.796319	1	-.803779 - 2	.150849	-.106351
5.2	.541315 - 1	-.134303	-.786683 - 2	.799903	1	-.873537 - 2	.162502	-.106528
5.4	.540554 - 1	-.145382	-.857941 - 2	.803208	1	-.946721 - 2	.174582	-.106699
5.6	.539849 - 1	-.156808	-.932794 - 2	.806265	1	-.102339 - 1	.187088	-.106863
5.8	.539192 - 1	-.168662	-.101130 - 1	.809099	1	-.110360 - 1	.200020	-.107021
6.0	.538579 - 1	-.180943	-.109352 - 1	.811735	1	-.118742 - 1	.213377	-.107173
6.2	.538003 - 1	-.193650	-.117951 - 1	.814191	1	-.127490 - 1	.227159	-.107318

Z = 27, A = 59

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.450887	1	-.252196		-.220974	- 1	-.179483		-.923780	- 1	.116210	1	-.347632	1
.6	.341116	1	-.438359		-.385695	- 1	-.102870		-.118829		.148800	1	-.458421	1
.8	.293698	1	-.657710		-.581783	- 1	-.658959	- 1	-.144790		.180250	1	-.563371	1
1.0	.268599	1	-.899061		-.800203	- 1	-.437928	- 1	-.170602		.210944	1	-.658261	1
1.2	.253557	1	-.115450	1	-.103456		-.289821	- 1	-.196409		.241046	1	-.743187	1
1.4	.243740	1	-.141882	1	-.128066		-.183235	- 1	-.222316		.270681	1	-.819128	1
1.6	.236915	1	-.168875	1	-.153584		-.102679	- 1	-.248402		.299948	1	-.887199	1
1.8	.231932	1	-.196218	1	-.179841		-.395754	- 2	-.274727		.328925	1	-.948439	1
2.0	.228148	1	-.223779	1	-.206729		.112299	- 2	-.301334		.357670	1	-.100376	2
2.2	.225180	1	-.251472	1	-.234178		.530300	- 2	-.328255		.386224	1	-.105396	2
2.4	.222790	1	-.279240	1	-.262143		.880318	- 2	-.355513		.414620	1	-.109968	2
2.6	.220821	1	-.307046	1	-.290592		.117772	- 1	-.383125		.442881	1	-.114149	2
2.8	.219167	1	-.334865	1	-.319503		.143354	- 1	-.411103		.471025	1	-.117987	2
3.0	.217755	1	-.362678	1	-.348862		.165593	- 1	-.439455		.499065	1	-.121522	2
3.2	.216532	1	-.390474	1	-.378659		.185102	- 1	-.468189		.527011	1	-.124790	2
3.4	.215459	1	-.418243	1	-.408884		.202352	- 1	-.497310		.554872	1	-.127818	2
3.6	.214508	1	-.445980	1	-.439532		.217713	- 1	-.526821		.582655	1	-.130634	2
3.8	.213656	1	-.473680	1	-.470600		.231476	- 1	-.556726		.610364	1	-.133258	2
4.0	.212888	1	-.501340	1	-.502083		.243877	- 1	-.587026		.638004	1	-.135711	2
4.2	.212189	1	-.528958	1	-.533979		.255105	- 1	-.617724		.665579	1	-.138009	2
4.4	.211549	1	-.556533	1	-.566285		.265318	- 1	-.648820		.693091	1	-.140166	2
4.6	.210960	1	-.584063	1	-.599001		.274646	- 1	-.680315		.720542	1	-.142196	2
4.8	.210414	1	-.611548	1	-.632124		.283196	- 1	-.712210		.747935	1	-.144110	2
5.0	.209907	1	-.638986	1	-.665654		.291060	- 1	-.744505		.775272	1	-.145919	2
5.2	.209433	1	-.666379	1	-.699589		.298316	- 1	-.777200		.802554	1	-.147630	2
5.4	.208988	1	-.693725	1	-.733928		.305029	- 1	-.810297		.829782	1	-.149252	2
5.6	.208569	1	-.721024	1	-.768670		.311257	- 1	-.843793		.856958	1	-.150792	2
5.8	.208174	1	-.748277	1	-.803814		.317049	- 1	-.877690		.884083	1	-.152258	2
6.0	.207800	1	-.775484	1	-.839361		.322447	- 1	-.911987		.911156	1	-.153653	2
6.2	.207445	1	-.802644	1	-.875308		.327489	- 1	-.946684		.938180	1	-.154985	2

Z = 27, A = 59

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.141463	-.402121 - 3	-.201753 - 4	.198558 1	-.916162 - 4	.202215 - 2	-.228939
.6	.961320 - 1	-.103578 - 2	-.521931 - 4	.297367 1	-.167564 - 3	.368079 - 2	-.163084
.8	.796807 - 1	-.206649 - 2	-.104708 - 3	.378890 1	-.267165 - 3	.583286 - 2	-.136350
1.0	.716799 - 1	-.353033 - 2	-.180032 - 3	.445342 1	-.390371 - 3	.846248 - 2	-.123301
1.2	.671312 - 1	-.544363 - 2	-.279569 - 3	.499167 1	-.537350 - 3	.115582 - 1	-.116323
1.4	.642761 - 1	-.781267 - 2	-.404259 - 3	.542811 1	-.708452 - 3	.151128 - 1	-.112399
1.6	.623549 - 1	-.106391 - 1	-.554832 - 3	.578413 1	-.904146 - 3	.191216 - 1	-.110141
1.8	.609929 - 1	-.139225 - 1	-.731925 - 3	.607706 1	-.112497 - 2	.235820 - 1	-.108841
2.0	.599870 - 1	-.176618 - 1	-.936144 - 3	.632044 1	-.137152 - 2	.284920 - 1	-.108115
2.2	.592190 - 1	-.218557 - 1	-.116808 - 2	.652467 1	-.164439 - 2	.338504 - 1	-.107744
2.4	.586163 - 1	-.265029 - 1	-.142833 - 2	.669774 1	-.194420 - 2	.396563 - 1	-.107596
2.6	.581323 - 1	-.316021 - 1	-.171749 - 2	.684576 1	-.227157 - 2	.459089 - 1	-.107589
2.8	.577358 - 1	-.371522 - 1	-.203616 - 2	.697344 1	-.262713 - 2	.526075 - 1	-.107673
3.0	.574053 - 1	-.431521 - 1	-.238493 - 2	.708448 1	-.301151 - 2	.597517 - 1	-.107815
3.2	.571258 - 1	-.496008 - 1	-.276443 - 2	.718175 1	-.342533 - 2	.673407 - 1	-.107992
3.4	.568862 - 1	-.564975 - 1	-.317525 - 2	.726755 1	-.386922 - 2	.753740 - 1	-.108191
3.6	.566784 - 1	-.638412 - 1	-.361800 - 2	.734369 1	-.434381 - 2	.838512 - 1	-.108401
3.8	.564964 - 1	-.716311 - 1	-.409330 - 2	.741166 1	-.484972 - 2	.927717 - 1	-.108617
4.0	.563355 - 1	-.798667 - 1	-.460177 - 2	.747265 1	-.538758 - 2	.102135	-.108833
4.2	.561919 - 1	-.885470 - 1	-.514401 - 2	.752765 1	-.595802 - 2	.111941	-.109047
4.4	.560630 - 1	-.976714 - 1	-.572064 - 2	.757746 1	-.656165 - 2	.122188	-.109257
4.6	.559464 - 1	-.107239	-.633227 - 2	.762277 1	-.719910 - 2	.132876	-.109462
4.8	.558402 - 1	-.117250	-.697952 - 2	.766414 1	-.787100 - 2	.144006	-.109660
5.0	.557431 - 1	-.127703	-.766300 - 2	.770205 1	-.857796 - 2	.155575	-.109851
5.2	.556538 - 1	-.138597	-.838334 - 2	.773690 1	-.932060 - 2	.167584	-.110036
5.4	.555712 - 1	-.149933	-.914113 - 2	.776904 1	-.100995 - 1	.180033	-.110213
5.6	.554946 - 1	-.161709	-.993701 - 2	.779877 1	-.109154 - 1	.192920	-.110384
5.8	.554232 - 1	-.173924	-.107716 - 1	.782634 1	-.117688 - 1	.206245	-.110548
6.0	.553564 - 1	-.186579	-.116454 - 1	.785198 1	-.126604 - 1	.220008	-.110705
6.2	.552937 - 1	-.199673	-.125592 - 1	.787587 1	-.135907 - 1	.234208	-.110857

Z = 28, A = 61

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.474547	1	-.260557		-.236265	- 1	-.185263		-.981995	- 1	.119093	1	-.336238	1
.6	.357329	1	-.450167		-.409866	- 1	-.105378		-.126006		.152134	1	-.440499	1
.8	.306604	1	-.673234		-.616164	- 1	-.669544	- 1	-.153252		.183973	1	-.539731	1
1.0	.279732	1	-.918467		-.845707	- 1	-.440119	- 1	-.180328		.215045	1	-.629428	1
1.2	.263616	1	-.117787	1	-.109180		-.286461	- 1	-.207392		.245522	1	-.709603	1
1.4	.253089	1	-.144621	1	-.135006		-.175905	- 1	-.234555		.275532	1	-.781185	1
1.6	.245764	1	-.172016	1	-.161769		-.923569	- 2	-.261898		.305175	1	-.845249	1
1.8	.240409	1	-.199760	1	-.189292		-.269121	- 2	-.289483		.334526	1	-.902801	1
2.0	.236338	1	-.227720	1	-.217463		.257768	- 2	-.317354		.363643	1	-.954723	1
2.2	.233142	1	-.255809	1	-.246209		.691261	- 2	-.345544		.392567	1	-.100177	2
2.4	.230564	1	-.283969	1	-.275481		.105425	- 1	-.374075		.421330	1	-.104457	2
2.6	.228437	1	-.312164	1	-.305246		.136267	- 1	-.402965		.449955	1	-.108368	2
2.8	.226648	1	-.340367	1	-.335482		.162796	- 1	-.432227		.478460	1	-.111954	2
3.0	.225119	1	-.368560	1	-.366174		.185858	- 1	-.461869		.506857	1	-.115254	2
3.2	.223793	1	-.396732	1	-.397310		.206088	- 1	-.491899		.535158	1	-.118301	2
3.4	.222628	1	-.424873	1	-.428882		.223977	- 1	-.522322		.563371	1	-.121124	2
3.6	.221595	1	-.452978	1	-.460884		.239905	- 1	-.553141		.591501	1	-.123746	2
3.8	.220669	1	-.481042	1	-.493311		.254176	- 1	-.584360		.619555	1	-.126189	2
4.0	.219832	1	-.509062	1	-.526161		.267033	- 1	-.615980		.647536	1	-.128470	2
4.2	.219070	1	-.537037	1	-.559429		.278675	- 1	-.648004		.675448	1	-.130607	2
4.4	.218372	1	-.564964	1	-.593115		.289263	- 1	-.680432		.703294	1	-.132612	2
4.6	.217729	1	-.592842	1	-.627216		.298932	- 1	-.713266		.731077	1	-.134497	2
4.8	.217133	1	-.620671	1	-.661730		.307795	- 1	-.746506		.758797	1	-.136274	2
5.0	.216578	1	-.648451	1	-.696657		.315946	- 1	-.780152		.786459	1	-.137952	2
5.2	.216060	1	-.676180	1	-.731994		.323466	- 1	-.814205		.814062	1	-.139540	2
5.4	.215573	1	-.703860	1	-.767742		.330424	- 1	-.848665		.841608	1	-.141044	2
5.6	.215114	1	-.731490	1	-.803899		.336877	- 1	-.883531		.869098	1	-.142473	2
5.8	.214681	1	-.759069	1	-.840465		.342878	- 1	-.918804		.896534	1	-.143831	2
6.0	.214271	1	-.786599	1	-.877438		.348470	- 1	-.954483		.923916	1	-.145125	2
6.2	.213881	1	-.814079	1	-.914818		.353692	- 1	-.990568		.951245	1	-.146358	2

Z = 28, A = 61

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.150023	-.419607 - 3	-.217804 - 4	.190511 1	-.989120 - 4	.210515 - 2	-.237630
.6	.100785	-.107338 - 2	-.559520 - 4	.286496 1	-.179851 - 3	.380993 - 2	-.168739
.8	.830352 - 1	-.213412 - 2	-.111848 - 3	.365622 1	-.285849 - 3	.601931 - 2	-.140878
1.0	.744325 - 1	-.363862 - 2	-.191900 - 3	.430131 1	-.416857 - 3	.871745 - 2	-.127298
1.2	.695508 - 1	-.560355 - 2	-.297577 - 3	.482399 1	-.573046 - 3	.118929 - 1	-.120040
1.4	.664897 - 1	-.803532 - 2	-.429862 - 3	.524798 1	-.754775 - 3	.155383 - 1	-.115961
1.6	.644308 - 1	-.109356 - 1	-.589511 - 3	.559396 1	-.962529 - 3	.196490 - 1	-.113613
1.8	.629714 - 1	-.143040 - 1	-.777186 - 3	.587872 1	-.119687 - 2	.242222 - 1	-.112262
2.0	.618933 - 1	-.181393 - 1	-.993510 - 3	.611537 1	-.145839 - 2	.292559 - 1	-.111508
2.2	.610699 - 1	-.224403 - 1	-.123910 - 2	.631400 1	-.174772 - 2	.347490 - 1	-.111122
2.4	.604234 - 1	-.272055 - 1	-.151455 - 2	.648236 1	-.206549 - 2	.407003 - 1	-.110967
2.6	.599040 - 1	-.324336 - 1	-.182050 - 2	.662636 1	-.241235 - 2	.471091 - 1	-.110960
2.8	.594781 - 1	-.381235 - 1	-.215755 - 2	.675061 1	-.278894 - 2	.539746 - 1	-.111046
3.0	.591230 - 1	-.442739 - 1	-.252633 - 2	.685868 1	-.319591 - 2	.612962 - 1	-.111193
3.2	.588224 - 1	-.508838 - 1	-.292746 - 2	.695335 1	-.363391 - 2	.690733 - 1	-.111377
3.4	.585645 - 1	-.579524 - 1	-.336158 - 2	.703686 1	-.410358 - 2	.773053 - 1	-.111583
3.6	.583407 - 1	-.654786 - 1	-.382930 - 2	.711099 1	-.460558 - 2	.859916 - 1	-.111802
3.8	.581445 - 1	-.734617 - 1	-.433126 - 2	.717716 1	-.514054 - 2	.951317 - 1	-.112025
4.0	.579709 - 1	-.819008 - 1	-.486809 - 2	.723654 1	-.570911 - 2	.104725	-.112250
4.2	.578159 - 1	-.907952 - 1	-.544043 - 2	.729009 1	-.631194 - 2	.114771	-.112472
4.4	.576766 - 1	-.100144	-.604891 - 2	.733860 1	-.694967 - 2	.125269	-.112690
4.6	.575505 - 1	-.109947	-.669416 - 2	.738273 1	-.762294 - 2	.136218	-.112902
4.8	.574357 - 1	-.120203	-.737682 - 2	.742301 1	-.833240 - 2	.147619	-.113107
5.0	.573305 - 1	-.130911	-.809751 - 2	.745993 1	-.907867 - 2	.159469	-.113306
5.2	.572337 - 1	-.142071	-.885689 - 2	.749388 1	-.986242 - 2	.171770	-.113497
5.4	.571442 - 1	-.153683	-.965557 - 2	.752518 1	-.106843 - 1	.184520	-.113682
5.6	.570610 - 1	-.165744	-.104942 - 1	.755414 1	-.115448 - 1	.197718	-.113859
5.8	.569835 - 1	-.178256	-.113734 - 1	.758100 1	-.124448 - 1	.211365	-.114029
6.0	.569110 - 1	-.191217	-.122938 - 1	.760597 1	-.133848 - 1	.225460	-.114192
6.2	.568429 - 1	-.204627	-.132560 - 1	.762924 1	-.143654 - 1	.240001	-.114349

Z = 29, A = 65

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.499130	1	-.269143		-.252526 - 1	-.190987	-.104220	.122000	1	-.325683 1
.6	.374175	1	-.462243		-.435454 - 1	-.107785	-.133428	.155501	1	-.423825 1
.8	.319998	1	-.689063		-.652480 - 1	-.679036 - 1	-.161998	.187735	1	-.517741 1
1.0	.291273	1	-.938209		-.893724 - 1	-.441198 - 1	-.190380	.219186	1	-.602623 1
1.2	.274031	1	-.120161	1	-.115219	-.281985 - 1	-.218749	.250039	1	-.678404 1
1.4	.262759	1	-.147399	1	-.142329	-.167458 - 1	-.247218	.280424	1	-.745965 1
1.6	.254907	1	-.175197	1	-.170409	-.809168 - 2	-.275874	.310440	1	-.806340 1
1.8	.249161	1	-.203342	1	-.199277	-.131314 - 2	-.304778	.340163	1	-.860502 1
2.0	.244788	1	-.231701	1	-.228812	.414406 - 2	-.333977	.369649	1	-.909300 1
2.2	.241349	1	-.260184	1	-.258940	.863385 - 2	-.363503	.398940	1	-.953460 1
2.4	.238572	1	-.288736	1	-.289608	.123933 - 1	-.393381	.428066	1	-.993596 1
2.6	.236278	1	-.317316	1	-.320784	.155876 - 1	-.423627	.457050	1	-.103023 2
2.8	.234347	1	-.345901	1	-.352444	.183352 - 1	-.454254	.485911	1	-.106378 2
3.0	.232694	1	-.374471	1	-.384571	.207235 - 1	-.485272	.514660	1	-.109464 2
3.2	.231258	1	-.403015	1	-.417153	.228186 - 1	-.516688	.543309	1	-.112311 2
3.4	.229996	1	-.431523	1	-.450182	.246710 - 1	-.548507	.571866	1	-.114946 2
3.6	.228875	1	-.459991	1	-.483653	.263203 - 1	-.580732	.600336	1	-.117393 2
3.8	.227869	1	-.488413	1	-.517559	.277980 - 1	-.613368	.628726	1	-.119671 2
4.0	.226960	1	-.516786	1	-.551898	.291292 - 1	-.646415	.657040	1	-.121798 2
4.2	.226131	1	-.545110	1	-.586666	.303345 - 1	-.679876	.685280	1	-.123788 2
4.4	.225371	1	-.573381	1	-.621861	.314305 - 1	-.713752	.713451	1	-.125654 2
4.6	.224670	1	-.601599	1	-.657482	.324314 - 1	-.748044	.741554	1	-.127410 2
4.8	.224020	1	-.629764	1	-.693526	.333487 - 1	-.782752	.769591	1	-.129063 2
5.0	.223415	1	-.657876	1	-.729993	.341922 - 1	-.817877	.797565	1	-.130624 2
5.2	.222848	1	-.685933	1	-.766881	.349703 - 1	-.853419	.825477	1	-.132100 2
5.4	.222317	1	-.713935	1	-.804188	.356901 - 1	-.889378	.853329	1	-.133499 2
5.6	.221815	1	-.741884	1	-.841915	.363577 - 1	-.925753	.881121	1	-.134827 2
5.8	.221342	1	-.769779	1	-.880060	.369783 - 1	-.962545	.908855	1	-.136089 2
6.0	.220893	1	-.797620	1	-.918623	.375566 - 1	-.999753	.936531	1	-.137291 2
6.2	.220466	1	-.825407	1	-.957602	.380965 - 1	-.103738 1	.964151	1	-.138437 2

Z = 29, A = 65

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.159048	-.442234 - 3	-.237456 - 4	.182976 1	-.107716 - 3	.221329 - 2	-.246365
.6	.105648	-.112353 - 2	-.605805 - 4	.276350 1	-.194745 - 3	.398308 - 2	-.174373
.8	.865237 - 1	-.222616 - 2	-.120677 - 3	.353257 1	-.308571 - 3	.627410 - 2	-.145368
1.0	.772864 - 1	-.378802 - 2	-.206621 - 3	.415963 1	-.449156 - 3	.907039 - 2	-.131252
1.2	.720542 - 1	-.582629 - 2	-.319975 - 3	.466789 1	-.616683 - 3	.123603 - 1	-.123713
1.4	.687766 - 1	-.834755 - 2	-.461781 - 3	.508033 1	-.811532 - 3	.161364 - 1	-.119478
1.6	.665731 - 1	-.113535 - 1	-.632838 - 3	.541700 1	-.103421 - 2	.203939 - 1	-.117040
1.8	.650112 - 1	-.148438 - 1	-.833845 - 3	.569419 1	-.128532 - 2	.251298 - 1	-.115638
2.0	.638573 - 1	-.188172 - 1	-.106546 - 2	.592460 1	-.156547 - 2	.303422 - 1	-.114854
2.2	.629757 - 1	-.232722 - 1	-.132832 - 2	.611805 1	-.187534 - 2	.360297 - 1	-.114453
2.4	.622832 - 1	-.282074 - 1	-.162309 - 2	.628204 1	-.221559 - 2	.421912 - 1	-.114292
2.6	.617264 - 1	-.336214 - 1	-.195039 - 2	.642234 1	-.258689 - 2	.488258 - 1	-.114284
2.8	.612697 - 1	-.395129 - 1	-.231088 - 2	.654341 1	-.298993 - 2	.559327 - 1	-.114374
3.0	.608886 - 1	-.458807 - 1	-.270522 - 2	.664872 1	-.342538 - 2	.635112 - 1	-.114526
3.2	.605658 - 1	-.527237 - 1	-.313407 - 2	.674099 1	-.389393 - 2	.715607 - 1	-.114716
3.4	.602886 - 1	-.600408 - 1	-.359808 - 2	.682239 1	-.439627 - 2	.800805 - 1	-.114930
3.6	.600479 - 1	-.678312 - 1	-.409791 - 2	.689465 1	-.493306 - 2	.890699 - 1	-.115156
3.8	.598368 - 1	-.760938 - 1	-.463424 - 2	.695916 1	-.550499 - 2	.985283 - 1	-.115388
4.0	.596497 - 1	-.848278 - 1	-.520771 - 2	.701706 1	-.611274 - 2	.108455	-.115620
4.2	.594827 - 1	-.940324 - 1	-.581901 - 2	.706927 1	-.675699 - 2	.118850	-.115850
4.4	.593324 - 1	-.103707	-.646880 - 2	.711657 1	-.743841 - 2	.129711	-.116076
4.6	.591963 - 1	-.113850	-.715774 - 2	.715960 1	-.815768 - 2	.141040	-.116296
4.8	.590722 - 1	-.124462	-.788650 - 2	.719889 1	-.891547 - 2	.152834	-.116509
5.0	.589585 - 1	-.135541	-.865574 - 2	.723489 1	-.971246 - 2	.165093	-.116715
5.2	.588538 - 1	-.147087	-.946614 - 2	.726800 1	-.105493 - 1	.177817	-.116913
5.4	.587568 - 1	-.159099	-.103184 - 1	.729853 1	-.114267 - 1	.191006	-.117104
5.6	.586668 - 1	-.171576	-.112131 - 1	.732677 1	-.123453 - 1	.204657	-.117288
5.8	.585828 - 1	-.184518	-.121509 - 1	.735297 1	-.133058 - 1	.218772	-.117464
6.0	.585041 - 1	-.197925	-.131326 - 1	.737732 1	-.143089 - 1	.233349	-.117633
6.2	.584302 - 1	-.211794	-.141587 - 1	.740003 1	-.153552 - 1	.248388	-.117796

Z = 30, A = 67

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.525150	1	-.278099	-.269432 - 1	-.196653	-.110492	.124996 1
.6	.392038	1	-.474831	-.461851 - 1	-.110089	-.141148	.158988 1
.8	.334207	1	-.705564	-.689746 - 1	-.687423 - 1	-.171078	.191640 1
1.0	.303514	1	-.958792	-.942801 - 1	-.441153 - 1	-.200793	.223491 1
1.2	.285077	1	-.122637	1	-.121371	-.276378 - 1	-.230486
1.4	.273011	1	-.150295	1	-.149767	-.157876 - 1	-.260277
1.6	.264598	1	-.178514	1	-.179164	-.683409 - 2	-.290254
1.8	.258435	1	-.207080	1	-.209368	.178670 - 3	-.320483
2.0	.253737	1	-.235855	1	-.240257	.582431 - 2	-.351009
2.2	.250040	1	-.264752	1	-.271750	.104691 - 1	-.381866
2.4	.247050	1	-.293712	1	-.303794	.143583 - 1	-.413079
2.6	.244578	1	-.322697	1	-.336354	.176628 - 1	-.444666
2.8	.242493	1	-.351681	1	-.369406	.205051 - 1	-.476639
3.0	.240706	1	-.380646	1	-.402932	.229758 - 1	-.509007
3.2	.239153	1	-.409580	1	-.436920	.251431 - 1	-.541779
3.4	.237786	1	-.438474	1	-.471361	.270592 - 1	-.574959
3.6	.236571	1	-.467323	1	-.506249	.287653 - 1	-.608552
3.8	.235479	1	-.496121	1	-.541578	.302937 - 1	-.642559
4.0	.234491	1	-.524867	1	-.577346	.316706 - 1	-.676985
4.2	.233590	1	-.553558	1	-.613549	.329171 - 1	-.711830
4.4	.232764	1	-.582193	1	-.650185	.340506 - 1	-.747095
4.6	.232000	1	-.610771	1	-.687251	.350856 - 1	-.782782
4.8	.231292	1	-.639291	1	-.724746	.360341 - 1	-.818890
5.0	.230632	1	-.667753	1	-.762669	.369062 - 1	-.855421
5.2	.230014	1	-.696157	1	-.801018	.377107 - 1	-.892375
5.4	.229433	1	-.724503	1	-.839793	.384547 - 1	-.929751
5.6	.228886	1	-.752791	1	-.878993	.391447 - 1	-.967549
5.8	.228369	1	-.781021	1	-.918615	.397861 - 1	-.100577 1
6.0	.227878	1	-.809193	1	-.958660	.403836 - 1	-.104441 1
6.2	.227411	1	-.837309	1	-.999127	.409415 - 1	-.108348 1

Z = 30, A = 67

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.168638	-.461013 - 3	-.255525 - 4	.175901 1	-.115879 - 3	.230153 - 2	-.255147
.6	.110781	-.116331 - 2	-.647434 - 4	.266859 1	-.208320 - 3	.411895 - 2	-.179985
.8	.901928 - 1	-.229712 - 2	-.128515 - 3	.341703 1	-.329062 - 3	.646896 - 2	-.149823
1.0	.802820 - 1	-.390103 - 2	-.219578 - 3	.402734 1	-.478068 - 3	.933570 - 2	-.135165
1.2	.746786 - 1	-.599256 - 2	-.339566 - 3	.452219 1	-.655526 - 3	.127075 - 1	-.127343
1.4	.711718 - 1	-.857845 - 2	-.489561 - 3	.492390 1	-.861825 - 3	.165768 - 1	-.122950
1.6	.688152 - 1	-.116604 - 1	-.670395 - 3	.525194 1	-.109749 - 2	.209388 - 1	-.120422
1.8	.671451 - 1	-.152380 - 1	-.882786 - 3	.552209 1	-.136312 - 2	.257904 - 1	-.118967
2.0	.659109 - 1	-.193100 - 1	-.112741 - 2	.574672 1	-.165938 - 2	.311296 - 1	-.118155
2.2	.649678 - 1	-.238749 - 1	-.140494 - 2	.593535 1	-.198693 - 2	.369550 - 1	-.117739
2.4	.642266 - 1	-.289311 - 1	-.171602 - 2	.609529 1	-.234646 - 2	.432653 - 1	-.117571
2.6	.636303 - 1	-.344772 - 1	-.206133 - 2	.623215 1	-.273868 - 2	.500597 - 1	-.117562
2.8	.631409 - 1	-.405118 - 1	-.244154 - 2	.635027 1	-.316428 - 2	.573373 - 1	-.117655
3.0	.627322 - 1	-.470337 - 1	-.285731 - 2	.645303 1	-.362396 - 2	.650973 - 1	-.117812
3.2	.623858 - 1	-.540417 - 1	-.330932 - 2	.654307 1	-.411842 - 2	.733390 - 1	-.118009
3.4	.620882 - 1	-.615346 - 1	-.379826 - 2	.662252 1	-.464837 - 2	.820618 - 1	-.118230
3.6	.618295 - 1	-.695116 - 1	-.432480 - 2	.669305 1	-.521450 - 2	.912648 - 1	-.118464
3.8	.616024 - 1	-.779715 - 1	-.488962 - 2	.675602 1	-.581751 - 2	.100947	-.118704
4.0	.614011 - 1	-.869135 - 1	-.549342 - 2	.681254 1	-.645811 - 2	.111109	-.118944
4.2	.612212 - 1	-.963367 - 1	-.613687 - 2	.686352 1	-.713699 - 2	.121749	-.119182
4.4	.610592 - 1	-.106240	-.682066 - 2	.690970 1	-.785484 - 2	.132866	-.119416
4.6	.609124 - 1	-.116623	-.754548 - 2	.695171 1	-.861237 - 2	.144460	-.119643
4.8	.607785 - 1	-.127485	-.831201 - 2	.699007 1	-.941026 - 2	.156531	-.119864
5.0	.606557 - 1	-.138825	-.912094 - 2	.702523 1	-.102492 - 1	.169077	-.120077
5.2	.605425 - 1	-.150642	-.997295 - 2	.705756 1	-.111299 - 1	.182098	-.120283
5.4	.604377 - 1	-.162935	-.108687 - 1	.708738 1	-.120531 - 1	.195594	-.120480
5.6	.603403 - 1	-.175704	-.118090 - 1	.711496 1	-.130194 - 1	.209563	-.120670
5.8	.602493 - 1	-.188948	-.127943 - 1	.714054 1	-.140295 - 1	.224005	-.120853
6.0	.601641 - 1	-.202666	-.138255 - 1	.716433 1	-.150841 - 1	.238919	-.121028
6.2	.600840 - 1	-.216857	-.149032 - 1	.718650 1	-.161839 - 1	.254305	-.121197

Z = 31, A = 71

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.552185	1	-.287295		-.287377	- 1	-.202261		-.116973		.128017	1	-.306757	1
.6	.410600	1	-.487703		-.489748	- 1	-.112289		-.149125		.162511	1	-.393731	1
.8	.348957	1	-.722386		-.729040	- 1	-.694693	- 1	-.180456		.195585	1	-.478055	1
1.0	.316205	1	-.979729		-.994494	- 1	-.439969	- 1	-.211549		.227839	1	-.554298	1
1.2	.296514	1	-.125150	1	-.127848		-.269628	- 1	-.242613		.259484	1	-.622223	1
1.4	.283616	1	-.153231	1	-.157600		-.147150	- 1	-.273776		.290656	1	-.682613	1
1.6	.274613	1	-.181873	1	-.188385		-.546203	- 2	-.305131		.321454	1	-.736428	1
1.8	.268010	1	-.210858	1	-.220004		.178493	- 2	-.336743		.351955	1	-.784574	1
2.0	.262971	1	-.240050	1	-.252327		.761897	- 2	-.368660		.382213	1	-.827842	1
2.2	.259000	1	-.269358	1	-.285270		.124187	- 1	-.400916		.412268	1	-.866907	1
2.4	.255785	1	-.298725	1	-.318780		.164376	- 1	-.433537		.442152	1	-.902335	1
2.6	.253123	1	-.328112	1	-.352817		.198521	- 1	-.466540		.471887	1	-.934604	1
2.8	.250876	1	-.357492	1	-.387357		.227892	- 1	-.499938		.501490	1	-.964115	1
3.0	.248948	1	-.386848	1	-.422383		.253420	- 1	-.533742		.530974	1	-.991206	1
3.2	.247270	1	-.416168	1	-.457881		.275813	- 1	-.567958		.560349	1	-.101617	2
3.4	.245792	1	-.445443	1	-.493843		.295610	- 1	-.602591		.589623	1	-.103924	2
3.6	.244476	1	-.474667	1	-.530260		.313236	- 1	-.637647		.618803	1	-.106063	2
3.8	.243293	1	-.503835	1	-.567130		.329025	- 1	-.673127		.647894	1	-.108052	2
4.0	.242221	1	-.532946	1	-.604446		.343248	- 1	-.709035		.676901	1	-.109908	2
4.2	.241243	1	-.561997	1	-.642208		.356123	- 1	-.745371		.705826	1	-.111642	2
4.4	.240345	1	-.590987	1	-.680411		.367830	- 1	-.782137		.734674	1	-.113268	2
4.6	.239515	1	-.619916	1	-.719054		.378519	- 1	-.819334		.763446	1	-.114796	2
4.8	.238745	1	-.648781	1	-.758135		.388312	- 1	-.856963		.792145	1	-.116234	2
5.0	.238027	1	-.677584	1	-.797653		.397317	- 1	-.895023		.820772	1	-.117590	2
5.2	.237354	1	-.706325	1	-.837606		.405621	- 1	-.933516		.849330	1	-.118873	2
5.4	.236721	1	-.735002	1	-.877994		.413301	- 1	-.972440		.877819	1	-.120087	2
5.6	.236124	1	-.763618	1	-.918815		.420421	- 1	-.101180	1	.906241	1	-.121239	2
5.8	.235560	1	-.792171	1	-.960069		.427039	- 1	-.105158	1	.934598	1	-.122334	2
6.0	.235024	1	-.820662	1	-.100175	1	.433203	- 1	-.109180	1	.962890	1	-.123377	2
6.2	.234515	1	-.849092	1	-.104387	1	.438956	- 1	-.113245	1	.991117	1	-.124371	2

Z = 31, A = 71

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.178745	-.484989 - 3	-.277462 - 4	.169242 1	-.125658 - 3	.241502 - 2	-.263979
.6	.116145	-.121559 - 2	-.698262 - 4	.257957 1	-.224655 - 3	.429849 - 2	-.185577
.8	.940086 - 1	-.239220 - 2	-.138125 - 3	.330882 1	-.353802 - 3	.673121 - 2	-.154240
1.0	.833879 - 1	-.405449 - 2	-.235515 - 3	.390353 1	-.513072 - 3	.969725 - 2	-.139037
1.2	.773940 - 1	-.622047 - 2	-.363725 - 3	.438590 1	-.702665 - 3	.131848 - 1	-.130929
1.4	.736464 - 1	-.889706 - 2	-.523900 - 3	.477763 1	-.922993 - 3	.171861 - 1	-.126377
1.6	.711292 - 1	-.120860 - 1	-.716914 - 3	.509762 1	-.117460 - 2	.216962 - 1	-.123758
1.8	.693452 - 1	-.157869 - 1	-.943523 - 3	.536123 1	-.145813 - 2	.267120 - 1	-.122251
2.0	.680269 - 1	-.199983 - 1	-.120444 - 2	.558048 1	-.177426 - 2	.322313 - 1	-.121409
2.2	.670190 - 1	-.247187 - 1	-.150036 - 2	.576463 1	-.212370 - 2	.382526 - 1	-.120978
2.4	.662266 - 1	-.299464 - 1	-.183197 - 2	.592081 1	-.250717 - 2	.447747 - 1	-.120804
2.6	.655888 - 1	-.356800 - 1	-.219998 - 2	.605448 1	-.292540 - 2	.517965 - 1	-.120794
2.8	.650649 - 1	-.419179 - 1	-.260508 - 2	.616985 1	-.337912 - 2	.593171 - 1	-.120890
3.0	.646272 - 1	-.486588 - 1	-.304798 - 2	.627023 1	-.386908 - 2	.673357 - 1	-.121051
3.2	.642559 - 1	-.559014 - 1	-.352938 - 2	.635821 1	-.439599 - 2	.758515 - 1	-.121255
3.4	.639367 - 1	-.636447 - 1	-.405001 - 2	.643585 1	-.496061 - 2	.848636 - 1	-.121483
3.6	.636591 - 1	-.718873 - 1	-.461056 - 2	.650477 1	-.556365 - 2	.943713 - 1	-.121725
3.8	.634152 - 1	-.806285 - 1	-.521176 - 2	.656631 1	-.620586 - 2	.104374	-.121973
4.0	.631988 - 1	-.898670 - 1	-.585433 - 2	.662155 1	-.688797 - 2	.114871	-.122222
4.2	.630053 - 1	-.996020 - 1	-.653898 - 2	.667138 1	-.761071 - 2	.125861	-.122468
4.4	.628310 - 1	-.109833	-.726642 - 2	.671652 1	-.837481 - 2	.137343	-.122710
4.6	.626728 - 1	-.120558	-.803739 - 2	.675759 1	-.918100 - 2	.149318	-.122945
4.8	.625285 - 1	-.131777	-.885259 - 2	.679509 1	-.100300 - 1	.161784	-.123173
5.0	.623961 - 1	-.143489	-.971275 - 2	.682946 1	-.109225 - 1	.174740	-.123393
5.2	.622739 - 1	-.155693	-.106186 - 1	.686107 1	-.118594 - 1	.188186	-.123606
5.4	.621608 - 1	-.168388	-.115708 - 1	.689022 1	-.128412 - 1	.202121	-.123810
5.6	.620555 - 1	-.181574	-.125701 - 1	.691719 1	-.138687 - 1	.216544	-.124007
5.8	.619572 - 1	-.195249	-.136173 - 1	.694221 1	-.149426 - 1	.231455	-.124195
6.0	.618650 - 1	-.209414	-.147130 - 1	.696547 1	-.160638 - 1	.246853	-.124377
6.2	.617783 - 1	-.224066	-.158579 - 1	.698715 1	-.172328 - 1	.262737	-.124551

Z = 32, A = 72

P	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁	
.4	.580972	1	-.296933		-.305977	- 1	-.207812		-.123739	.131153	1
.6	.430408	1	-.501199		-.518436	- 1	-.114384		-.157444	.166185	1
.8	.364709	1	-.740037		-.769223	- 1	-.700829	- 1	-.190215	.199713	1
1.0	.329763	1	-.100171	1	-.104712		-.437633	- 1	-.222712	.232396	1
1.2	.308732	1	-.127791	1	-.134418		-.261717	- 1	-.255167	.264463	1
1.4	.294944	1	-.156318	1	-.165517		-.135260	- 1	-.287715	.296054	1
1.6	.285309	1	-.185406	1	-.197678		-.397341	- 2	-.320451	.327268	1
1.8	.278234	1	-.214835	1	-.230690		.350795	- 2	-.353443	.358182	1
2.0	.272830	1	-.244467	1	-.264420		.953060	- 2	-.386741	.388849	1
2.2	.268565	1	-.274212	1	-.298779		.144855	- 1	-.420379	.419310	1
2.4	.265108	1	-.304010	1	-.333712		.186343	- 1	-.454383	.449596	1
2.6	.262242	1	-.333823	1	-.369178		.221592	- 1	-.488771	.479729	1
2.8	.259820	1	-.363625	1	-.405153		.251911	- 1	-.523557	.509726	1
3.0	.257739	1	-.393398	1	-.441616		.278264	- 1	-.558750	.539600	1
3.2	.255926	1	-.423129	1	-.478556		.301380	- 1	-.594358	.569361	1
3.4	.254328	1	-.452810	1	-.515962		.321816	- 1	-.630387	.599017	1
3.6	.252903	1	-.482435	1	-.553827		.340010	- 1	-.666840	.628575	1
3.8	.251622	1	-.512000	1	-.592147		.356307	- 1	-.703721	.658039	1
4.0	.250460	1	-.541503	1	-.630917		.370988	- 1	-.741032	.687415	1
4.2	.249398	1	-.570941	1	-.670135		.384276	- 1	-.778775	.716706	1
4.4	.248423	1	-.600313	1	-.709797		.396358	- 1	-.816951	.745915	1
4.6	.247521	1	-.629619	1	-.749901		.407388	- 1	-.855560	.775045	1
4.8	.246683	1	-.658859	1	-.790447		.417495	- 1	-.894604	.804097	1
5.0	.245902	1	-.688031	1	-.831432		.426786	- 1	-.934083	.833074	1
5.2	.245169	1	-.717136	1	-.872855		.435354	- 1	-.973997	.861978	1
5.4	.244480	1	-.746175	1	-.914715		.443276	- 1	-.101435	.890810	1
5.6	.243830	1	-.775147	1	-.957011		.450621	- 1	-.105513	.919571	1
5.8	.243215	1	-.804053	1	-.999742		.457447	- 1	-.109635	.948263	1
6.0	.242631	1	-.832893	1	-.104291	1	.463805	- 1	-.113800	.976886	1
6.2	.242075	1	-.861667	1	-.108650	1	.469737	- 1	-.118008	.100544	2

Z = 32, A = 72

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$		
.4	.189509	-.502893 - 3	-.296284 - 4	.162961	1	-.134152 - 3	.249757 - 2	-.272864	
.6	.121823	-.125208 - 2	-.740593 - 4	.249591	1	-.238528 - 3	.442161 - 2	-.191149	
.8	.980360 - 1	-.245568 - 2	-.145986 - 3	.320726	1	-.374510 - 3	.690401 - 2	-.158622	
1.0	.866604 - 1	-.415389 - 2	-.248394 - 3	.378742	1	-.542070 - 3	.992901 - 2	-.142866	
1.2	.802520 - 1	-.636499 - 2	-.383075 - 3	.425814	1	-.741410 - 3	.134848 - 1	-.134470	
1.4	.762491 - 1	-.909599 - 2	-.551209 - 3	.464055	1	-.972945 - 3	.175636 - 1	-.129758	
1.6	.735615 - 1	-.123486 - 1	-.753691 - 3	.495304	1	-.123723 - 2	.221605 - 1	-.127048	
1.8	.716570 - 1	-.161224 - 1	-.991294 - 3	.521055	1	-.153491 - 2	.272722 - 1	-.125488	
2.0	.702493 - 1	-.204160 - 1	-.126474 - 2	.542479	1	-.186668 - 2	.328965 - 1	-.124617	
2.2	.691728 - 1	-.252278 - 1	-.157474 - 2	.560478	1	-.223326 - 2	.390317 - 1	-.124170	
2.4	.683261 - 1	-.305559 - 1	-.192200 - 2	.575745	1	-.263539 - 2	.456767 - 1	-.123990	
2.6	.676442 - 1	-.363989 - 1	-.230723 - 2	.588814	1	-.307380 - 2	.528303 - 1	-.123979	
2.8	.670838 - 1	-.427552 - 1	-.273113 - 2	.600096	1	-.354924 - 2	.604915 - 1	-.124077	
3.0	.666153 - 1	-.496234 - 1	-.319443 - 2	.609914	1	-.406247 - 2	.686595 - 1	-.124244	
3.2	.662176 - 1	-.570021 - 1	-.369785 - 2	.618520	1	-.461422 - 2	.773333 - 1	-.124454	
3.4	.658754 - 1	-.648902 - 1	-.424210 - 2	.626114	1	-.520525 - 2	.865121 - 1	-.124690	
3.6	.655776 - 1	-.732865 - 1	-.482792 - 2	.632857	1	-.583630 - 2	.961951 - 1	-.124940	
3.8	.653158 - 1	-.821898 - 1	-.545604 - 2	.638878	1	-.650812 - 2	.106382	-.125196	
4.0	.650834 - 1	-.915992 - 1	-.612717 - 2	.644283	1	-.722146 - 2	.117071	-.125452	
4.2	.648754 - 1	-.101514	-.684206 - 2	.649159	1	-.797705 - 2	.128261	-.125707	
4.4	.646878 - 1	-.111932	-.760143 - 2	.653576	1	-.877565 - 2	.139953	-.125956	
4.6	.645176 - 1	-.122854	-.840601 - 2	.657595	1	-.961799 - 2	.152145	-.126199	
4.8	.643622 - 1	-.134277	-.925654 - 2	.661266	1	-.105048 - 1	.164837	-.126435	
5.0	.642195 - 1	-.146202	-.101537 - 1	.664630	1	-.114369 - 1	.178027	-.126662	
5.2	.640878	1	-.158628	-.110984 - 1	.667724	1	-.124149 - 1	.191715	-.126882
5.4	.639657 - 1	-.171553	-.120911 - 1	.670578	1	-.134396 - 1	.205901	-.127093	
5.6	.638520 - 1	-.184976	-.131327 - 1	.673218	1	-.145118 - 1	.220582	-.127296	
5.8	.637458 - 1	-.198898	-.142239 - 1	.675666	1	-.156321 - 1	.235760	-.127491	
6.0	.636462 - 1	-.213316	-.153655 - 1	.677943	1	-.168013 - 1	.251432	-.127678	
6.2	.635525 - 1	-.228231	-.165581 - 1	.680066	1	-.180202 - 1	.267599	-.127858	

Z = 33, A = 77

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.610581	1	-.306745		-.325857	- 1	-.213305		-.130694		.134276	1	-.290291	1
.6	.450769	1	-.514857		-.549009	- 1	-.116373		-.165998		.169846	1	-.367305	1
.8	.380874	1	-.757820		-.812004	- 1	-.705822	- 1	-.200256		.203822	1	-.443218	1
1.0	.343650	1	-.102378	1	-.110316		-.434133	- 1	-.234209		.236926	1	-.511941	1
1.2	.321227	1	-.130435	1	-.141419		-.252638	- 1	-.268113		.269405	1	-.573060	1
1.4	.306511	1	-.159401	1	-.173966		-.122201	- 1	-.302112		.301402	1	-.627264	1
1.6	.296216	1	-.188926	1	-.207609		-.236784	- 2	-.336305		.333019	1	-.675440	1
1.8	.288649	1	-.218789	1	-.242131		.534782	- 2	-.370762		.364330	1	-.718431	1
2.0	.282861	1	-.248851	1	-.277390		.115590	- 1	-.405532		.395391	1	-.756974	1
2.2	.278288	1	-.279019	1	-.313298		.166688	- 1	-.440652		.426242	1	-.791696	1
2.4	.274577	1	-.309236	1	-.349794		.209473	- 1	-.476148		.456913	1	-.823122	1
2.6	.271496	1	-.339461	1	-.386837		.245823	- 1	-.512038		.487425	1	-.851693	1
2.8	.268890	1	-.369669	1	-.424401		.277088	- 1	-.548336		.517796	1	-.877778	1
3.0	.266648	1	-.399841	1	-.462465		.304263	- 1	-.585053		.548039	1	-.901688	1
3.2	.264694	1	-.429966	1	-.501017		.328098	- 1	-.622194		.578164	1	-.923684	1
3.4	.262968	1	-.460034	1	-.540047		.349169	- 1	-.659767		.608180	1	-.943992	1
3.6	.261429	1	-.490041	1	-.579547		.367927	- 1	-.697775		.638091	1	-.962800	1
3.8	.260043	1	-.519982	1	-.619512		.384728	- 1	-.736221		.667905	1	-.980274	1
4.0	.258786	1	-.549855	1	-.659937		.399861	- 1	-.775109		.697625	1	-.996553	1
4.2	.257636	1	-.579657	1	-.700820		.413557	- 1	-.814438		.727255	1	-.101176	2
4.4	.256579	1	-.609388	1	-.742158		.426009	- 1	-.854211		.756798	1	-.102600	2
4.6	.255601	1	-.639048	1	-.783948		.437375	- 1	-.894429		.786257	1	-.103937	2
4.8	.254692	1	-.668635	1	-.826190		.447788	- 1	-.935092		.815633	1	-.105196	2
5.0	.253843	1	-.698150	1	-.868881		.457359	- 1	-.976200		.844930	1	-.106382	2
5.2	.253047	1	-.727592	1	-.912021		.466184	- 1	-.101775	1	.874149	1	-.107503	2
5.4	.252298	1	-.756963	1	-.955607		.474343	- 1	-.105975	1	.903291	1	-.108564	2
5.6	.251591	1	-.786262	1	-.999639		.481905	- 1	-.110220	1	.932357	1	-.109570	2
5.8	.250922	1	-.815490	1	-.104412	1	.488931	- 1	-.114509	1	.961350	1	-.110526	2
6.0	.250287	1	-.844647	1	-.108904	1	.495473	- 1	-.118842	1	.990270	1	-.111436	2
6.2	.249682	1	-.873734	1	-.113440	1	.501577	- 1	-.123220	1	.101912	2	-.112303	2

Z = 33, A = 77

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.200801	-.530641 - 3	-.322205 - 4	.157021 1	-.145600 - 3	.262823 - 2	-.281806
.6	.127725	-.131244 - 2	-.800047 - 4	.241712 1	-.257510 - 3	.462840 - 2	-.196701
.8	.102199	-.256541 - 2	-.157169 - 3	.311175 1	-.403139 - 3	.720622 - 2	-.162967
1.0	.900316 - 1	-.433099 - 2	-.266886 - 3	.367831 1	-.582476 - 3	.103458 - 1	-.146653
1.2	.831889 - 1	-.662803 - 2	-.411057 - 3	.413814 1	-.795742 - 3	.140352 - 1	-.137967
1.4	.789188 - 1	-.946373 - 2	-.590935 - 3	.451184 1	-.104338 - 2	.182664 - 1	-.133094
1.6	.760530 - 1	-.128399 - 1	-.807468 - 3	.481733 1	-.132597 - 2	.230343 - 1	-.130292
1.8	.740224 - 1	-.167560 - 1	-.106147 - 2	.506915 1	-.164420 - 2	.283355 - 1	-.128679
2.0	.725213 - 1	-.212105 - 1	-.135371 - 2	.527870 1	-.199880 - 2	.341676 - 1	-.127778
2.2	.713730 - 1	-.262017 - 1	-.168493 - 2	.545480 1	-.239053 - 2	.405290 - 1	-.127315
2.4	.704694 - 1	-.317278 - 1	-.205588 - 2	.560421 1	-.282017 - 2	.474183 - 1	-.127128
2.6	.697413 - 1	-.377871 - 1	-.246730 - 2	.573212 1	-.328849 - 2	.548343 - 1	-.127117
2.8	.691427 - 1	-.443779 - 1	-.291995 - 2	.584257 1	-.379629 - 2	.627758 - 1	-.127218
3.0	.686418 - 1	-.514987 - 1	-.341457 - 2	.593869 1	-.434434 - 2	.712419 - 1	-.127390
3.2	.682163 - 1	-.591481 - 1	-.395193 - 2	.602295 1	-.493345 - 2	.802317 - 1	-.127606
3.4	.678501 - 1	-.673248 - 1	-.453279 - 2	.609732 1	-.556439 - 2	.897442 - 1	-.127849
3.6	.675311 - 1	-.760276 - 1	-.515792 - 2	.616335 1	-.623796 - 2	.997785 - 1	-.128107
3.8	.672504 - 1	-.852551 - 1	-.582808 - 2	.622233 1	-.695495 - 2	.110334	-.128371
4.0	.670011 - 1	-.950064 - 1	-.654404 - 2	.627528 1	-.771613 - 2	.121409	-.128636
4.2	.667778 - 1	-.105280	-.730656 - 2	.632304 1	-.852230 - 2	.133004	-.128898
4.4	.665764 - 1	-.116076	-.811643 - 2	.636631 1	-.937423 - 2	.145116	-.129156
4.6	.663935 - 1	-.127391	-.897441 - 2	.640569 1	-.102727 - 1	.157747	-.129406
4.8	.662263 - 1	-.139227	-.988127 - 2	.644165 1	-.112185 - 1	.170894	-.129649
5.0	.660727 - 1	-.151581	-.108378 - 1	.647462 1	-.122124 - 1	.184556	-.129884
5.2	.659309 - 1	-.164452	-.118447 - 1	.650493 1	-.132552 - 1	.198734	-.130111
5.4	.657994 - 1	-.177840	-.129028 - 1	.653289 1	-.143477 - 1	.213426	-.130328
5.6	.656769 - 1	-.191744	-.140129 - 1	.655876 1	-.154906 - 1	.228631	-.130538
5.8	.655623 - 1	-.206163	-.151757 - 1	.658276 1	-.166847 - 1	.244348	-.130739
6.0	.654549 - 1	-.221095	-.163920 - 1	.660507 1	-.179308 - 1	.260577	-.130933
6.2	.653537 - 1	-.236541	-.176625 - 1	.662587 1	-.192297 - 1	.277317	-.131118

Z = 34, A = 78

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.642308	1	-.317077		-.346417	- 1	-.218740		-.137974		.137543	1	-.282841	1
.6	.472639	1	-.529262		-.580378	- 1	-.118254		-.174942		.173695	1	-.355260	1
.8	.398256	1	-.776602		-.855642	- 1	-.709654	- 1	-.210731		.208156	1	-.427347	1
1.0	.358591	1	-.104713	1	-.116005		-.429451	- 1	-.246171		.241716	1	-.492666	1
1.2	.334673	1	-.133234	1	-.148497		-.242369	- 1	-.281544		.274639	1	-.550716	1
1.4	.318960	1	-.162668	1	-.182474		-.107948	- 1	-.317003		.307075	1	-.602139	1
1.6	.307956	1	-.192661	1	-.217575		-.642619	- 3	-.352652		.339127	1	-.647787	1
1.8	.299858	1	-.222989	1	-.253572		.730764	- 2	-.388563		.370869	1	-.688471	1
2.0	.293657	1	-.253510	1	-.290320		.137075	- 1	-.424787		.402356	1	-.724905	1
2.2	.288752	1	-.284134	1	-.327725		.189727	- 1	-.461362		.433629	1	-.757691	1
2.4	.284766	1	-.314800	1	-.365723		.233812	- 1	-.498313		.464717	1	-.787337	1
2.6	.281453	1	-.345469	1	-.404274		.271267	- 1	-.535659		.495643	1	-.814264	1
2.8	.278647	1	-.376115	1	-.443349		.303482	- 1	-.573415		.526422	1	-.838829	1
3.0	.276232	1	-.406720	1	-.482929		.331483	- 1	-.611590		.557069	1	-.861328	1
3.2	.274123	1	-.437272	1	-.522998		.356041	- 1	-.650193		.587593	1	-.882013	1
3.4	.272260	1	-.467762	1	-.563548		.377751	- 1	-.689229		.618002	1	-.901097	1
3.6	.270596	1	-.498184	1	-.604570		.397077	- 1	-.728702		.648303	1	-.918763	1
3.8	.269098	1	-.528535	1	-.646058		.414387	- 1	-.768617		.678502	1	-.935166	1
4.0	.267736	1	-.558813	1	-.688010		.429976	- 1	-.808974		.708602	1	-.950441	1
4.2	.266491	1	-.589015	1	-.730421		.444086	- 1	-.849775		.738608	1	-.964704	1
4.4	.265345	1	-.619141	1	-.773289		.456912	- 1	-.891023		.768523	1	-.978057	1
4.6	.264284	1	-.649190	1	-.816611		.468620	- 1	-.932718		.798349	1	-.990588	1
4.8	.263298	1	-.679161	1	-.860387		.479344	- 1	-.974860		.828089	1	-.100237	2
5.0	.262376	1	-.709056	1	-.904614		.489201	- 1	-.101745	1	.857744	1	-.101349	2
5.2	.261511	1	-.738874	1	-.949291		.498288	- 1	-.106049	1	.887318	1	-.102398	2
5.4	.260697	1	-.768616	1	-.994417		.506689	- 1	-.110397	1	.916810	1	-.103391	2
5.6	.259929	1	-.798281	1	-.103999	1	.514475	- 1	-.114791	1	.946223	1	-.104333	2
5.8	.259201	1	-.827871	1	-.108601	1	.521708	- 1	-.119229	1	.975559	1	-.105228	2
6.0	.258510	1	-.857386	1	-.113248	1	.528441	- 1	-.123711	1	.100482	2	-.106079	2
6.2	.257851	1	-.886826	1	-.117939	1	.534723	- 1	-.128239	1	.103400	2	-.106891	2

$z = 34, A = 78$

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.212854	-.550050 - 3	-.343375 - 4	.151394 1	-.155078 - 3	.271680 - 2	-.290806
.6	.133993	-.135155 - 2	-.846961 - 4	.234276 1	-.272823 - 3	.475959 - 2	-.202233
.8	.106609	-.263301 - 2	-.165810 - 3	.302175 1	-.425846 - 3	.738953 - 2	-.167275
1.0	.935974 - 1	-.443643 - 2	-.280972 - 3	.357557 1	-.614141 - 3	.105909 - 1	-.150398
1.2	.862927 - 1	-.678091 - 2	-.432150 - 3	.402521 1	-.837929 - 3	.143518 - 1	-.141419
1.4	.817385 - 1	-.967373 - 2	-.620633 - 3	.439077 1	-.109765 - 2	.186642 - 1	-.136384
1.6	.786835 - 1	-.131167 - 1	-.847391 - 3	.468970 1	-.139391 - 2	.235228 - 1	-.133489
1.8	.765189 - 1	-.171092 - 1	-.111326 - 2	.493619 1	-.172740 - 2	.289242 - 1	-.131823
2.0	.749186 - 1	-.216498 - 1	-.141901 - 2	.514138 1	-.209884 - 2	.348661 - 1	-.130892
2.2	.736939 - 1	-.267366 - 1	-.176541 - 2	.531384 1	-.250903 - 2	.413466 - 1	-.130413
2.4	.727299 - 1	-.323677 - 1	-.215320 - 2	.546020 1	-.295874 - 2	.483642 - 1	-.130220
2.6	.719527 - 1	-.385413 - 1	-.258315 - 2	.558552 1	-.344877 - 2	.559176 - 1	-.130207
2.8	.713133 - 1	-.452557 - 1	-.305603 - 2	.569374 1	-.397992 - 2	.640058 - 1	-.130311
3.0	.707780 - 1	-.525094 - 1	-.357258 - 2	.578794 1	-.455299 - 2	.726277 - 1	-.130488
3.2	.703229 - 1	-.603009 - 1	-.413360 - 2	.587053 1	-.516878 - 2	.817823 - 1	-.130711
3.4	.699310 - 1	-.686287 - 1	-.473985 - 2	.594343 1	-.582810 - 2	.914685 - 1	-.130961
3.6	.695894 - 1	-.774916 - 1	-.539211 - 2	.600817 1	-.653174 - 2	.101685	-.131226
3.8	.692887 - 1	-.868882 - 1	-.609116 - 2	.606599 1	-.728050 - 2	.112432	-.131499
4.0	.690213 - 1	-.968175 - 1	-.683777 - 2	.611791 1	-.807519 - 2	.123708	-.131772
4.2	.687818 - 1	-.107278	-.763274 - 2	.616474 1	-.891660 - 2	.135511	-.132042
4.4	.685655 - 1	-.118269	-.847684 - 2	.620718 1	-.980553 - 2	.147841	-.132308
4.6	.683690 - 1	-.129789	-.937086 - 2	.624579 1	-.107428 - 1	.160698	-.132566
4.8	.681893 - 1	-.141838	-.103156 - 1	.628107 1	-.117291 - 1	.174079	-.132816
5.0	.680241 - 1	-.154413	-.113118 - 1	.631340 1	-.127654 - 1	.187985	-.133059
5.2	.678715 - 1	-.167515	-.123602 - 1	.634313 1	-.138523 - 1	.202414	-.133292
5.4	.677298 - 1	-.181142	-.134618 - 1	.637056 1	-.149907 - 1	.217366	-.133517
5.6	.675979 - 1	-.195293	-.146171 - 1	.639593 1	-.161814 - 1	.232840	-.133733
5.8	.674744 - 1	-.209967	-.158270 - 1	.641947 1	-.174252 - 1	.248834	-.133940
6.0	.673585 - 1	-.225163	-.170924 - 1	.644136 1	-.187227 - 1	.265348	-.134140
6.2	.672494 - 1	-.240881	-.184139 - 1	.646177 1	-.200749 - 1	.282381	-.134331

Z = 35, A = 79

p	F _o		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.675662	1	-.327784		-.368034	- 1	-.224116		-.145528		.140881	1	-.275851	1
.6	.495653	1	-.544157		-.613190	- 1	-.120026		-.184220		.177639	1	-.343904	1
.8	.416544	1	-.795996		-.901137	- 1	-.712312	- 1	-.221589		.212602	1	-.412386	1
1.0	.374300	1	-.107120	1	-.121923		-.423574	- 1	-.258560		.246632	1	-.474512	1
1.2	.348801	1	-.136119	1	-.155848		-.230900	- 1	-.295443		.280012	1	-.529691	1
1.4	.332032	1	-.166033	1	-.191300		-.924919	- 2	-.332404		.312898	1	-.578518	1
1.6	.320275	1	-.196505	1	-.227902		.120316	- 2	-.369550		.345395	1	-.621808	1
1.8	.311613	1	-.227308	1	-.265419		.938815	- 2	-.406955		.377578	1	-.660346	1
2.0	.304972	1	-.258301	1	-.303698		.159769	- 1	-.444672		.409501	1	-.694820	1
2.2	.299713	1	-.289390	1	-.342642		.213975	- 1	-.482739		.441205	1	-.725810	1
2.4	.295434	1	-.320516	1	-.382186		.259361	- 1	-.521183		.472719	1	-.753804	1
2.6	.291874	1	-.351639	1	-.422286		.297922	- 1	-.560023		.504066	1	-.779210	1
2.8	.288855	1	-.382733	1	-.462914		.331088	- 1	-.599274		.535261	1	-.802367	1
3.0	.286254	1	-.413779	1	-.504049		.359914	- 1	-.638946		.566319	1	-.823563	1
3.2	.283980	1	-.444766	1	-.545676		.385196	- 1	-.679047		.597249	1	-.843036	1
3.4	.281970	1	-.475686	1	-.587785		.407545	- 1	-.719582		.628060	1	-.860991	1
3.6	.280173	1	-.506532	1	-.630369		.427440	- 1	-.760557		.658758	1	-.877603	1
3.8	.278553	1	-.537301	1	-.673421		.445258	- 1	-.801974		.689348	1	-.893020	1
4.0	.277080	1	-.567991	1	-.716937		.461305	- 1	-.843836		.719835	1	-.907370	1
4.2	.275733	1	-.598600	1	-.760914		.475828	- 1	-.886145		.750223	1	-.920764	1
4.4	.274491	1	-.629127	1	-.805349		.489029	- 1	-.928902		.780515	1	-.933298	1
4.6	.273342	1	-.659573	1	-.850241		.501077	- 1	-.972108		.810714	1	-.945057	1
4.8	.272272	1	-.689936	1	-.895587		.512113	- 1	-.101576	1	.840823	1	-.956114	1
5.0	.271272	1	-.720217	1	-.941386		.522256	- 1	-.105987	1	.870842	1	-.966533	1
5.2	.270334	1	-.750416	1	-.987637		.531605	- 1	-.110442	1	.900775	1	-.976373	1
5.4	.269450	1	-.780534	1	-.103434	1	.540247	- 1	-.114943	1	.930624	1	-.985684	1
5.6	.268615	1	-.810572	1	-.108149	1	.548256	- 1	-.119488	1	.960388	1	-.994511	1
5.8	.267824	1	-.840529	1	-.112909	1	.555695	- 1	-.124079	1	.990071	1	-.100289	2
6.0	.267073	1	-.870407	1	-.117713	1	.562620	- 1	-.128714	1	.101967	2	-.101087	2
6.2	.266357	1	-.900205	1	-.122563	1	.569079	- 1	-.133394	1	.104919	2	-.101847	2

Z = 35, A = 79

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.225614	-.570151 - 3	-.365655 - 4	.146051	1	-.165015 - 3	.280807 - 2	-.299869
.6	.140582	-.139186 - 2	-.895992 - 4	.227246	1	-.288797 - 3	.489443 - 2	-.207746
.8	.111228	-.270252 - 2	-.174807 - 3	.293680	1	-.449461 - 3	.757764 - 2	-.171547
1.0	.973224 - 1	-.454467 - 2	-.295603 - 3	.347867	1	-.647008 - 3	.108422 - 1	-.154101
1.2	.895299 - 1	-.693766 - 2	-.454024 - 3	.391876	1	-.881658 - 3	.146761 - 1	-.144826
1.4	.846760 - 1	-.988888 - 2	-.651396 - 3	.427668	1	-.115386 - 2	.190713 - 1	-.139628
1.6	.814212 - 1	-.134001 - 1	-.888711 - 3	.456947	1	-.146422 - 2	.240226 - 1	-.136639
1.8	.791154 - 1	-.174708 - 1	-.116682 - 2	.481098	1	-.181343 - 2	.295264 - 1	-.134919
2.0	.774104 - 1	-.220992 - 1	-.148651 - 2	.501207	1	-.220225 - 2	.355802 - 1	-.133958
2.2	.761053 - 1	-.272835 - 1	-.184855 - 2	.518113	1	-.263146 - 2	.421821 - 1	-.133464
2.4	.750774 - 1	-.330217 - 1	-.225372 - 2	.532463	1	-.310186 - 2	.493306 - 1	-.133263
2.6	.742483 - 1	-.393121 - 1	-.270277 - 2	.544753	1	-.361426 - 2	.570243 - 1	-.133250
2.8	.735659 - 1	-.461527 - 1	-.319649 - 2	.555368	1	-.416947 - 2	.652621 - 1	-.133356
3.0	.729941 - 1	-.535419 - 1	-.373565 - 2	.564608	1	-.476830 - 2	.740428 - 1	-.133538
3.2	.725079 - 1	-.614782 - 1	-.432103 - 2	.572711	1	-.541158 - 2	.833653 - 1	-.133767
3.4	.720888 - 1	-.699601 - 1	-.495343 - 2	.579864	1	-.610011 - 2	.932285 - 1	-.134025
3.6	.717233 - 1	-.789862 - 1	-.563362 - 2	.586217	1	-.683471 - 2	.103631	-.134298
3.8	.714012 - 1	-.885552 - 1	-.636241 - 2	.591891	1	-.761620 - 2	.114573	-.134578
4.0	.711148 - 1	-.986659 - 1	-.714058 - 2	.596986	1	-.844537 - 2	.126053	-.134860
4.2	.708580 - 1	-.109317	-.796894 - 2	.601583	1	-.932306 - 2	.138069	-.135138
4.4	.706260 - 1	-.120507	-.884826 - 2	.605749	1	-.102501 - 1	.150621	-.135412
4.6	.704150 - 1	-.132236	-.977936 - 2	.609539	1	-.112272 - 1	.163707	-.135678
4.8	.702220 - 1	-.144501	-.107630 - 1	.613002	1	-.122552 - 1	.177328	-.135936
5.0	.700445 - 1	-.157302	-.118000 - 1	.616176	1	-.133350 - 1	.191482	-.136185
5.2	.698804 - 1	-.170638	-.128912 - 1	.619095	1	-.144673 - 1	.206167	-.136426
5.4	.697280 - 1	-.184508	-.140373 - 1	.621788	1	-.156530 - 1	.221383	-.136657
5.6	.695860 - 1	-.198911	-.152392 - 1	.624279	1	-.168928 - 1	.237130	-.136880
5.8	.694530 - 1	-.213845	-.164976 - 1	.626591	1	-.181876 - 1	.253406	-.137093
6.0	.693282 - 1	-.229310	-.178134 - 1	.628740	1	-.195381 - 1	.270210	-.137299
6.2	.692106 - 1	-.245305	-.191872 - 1	.630744	1	-.209451 - 1	.287541	-.137496

Z = 36, A = 84

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.709929	1	-.338672		-.391044	- 1	-.229432		-.153276		.144200	1	-.269283	1
.6	.519283	1	-.559214		-.648016	- 1	-.121688		-.193743		.181561	1	-.333177	1
.8	.435290	1	-.815513		-.949369	- 1	-.713785	- 1	-.232739		.217020	1	-.398262	1
1.0	.390376	1	-.109535	1	-.128196		-.416492	- 1	-.271292		.251509	1	-.457390	1
1.2	.363235	1	-.139003	1	-.163645		-.218218	- 1	-.309744		.285334	1	-.509879	1
1.4	.345366	1	-.169388	1	-.200660		-.758217	- 2	-.348272		.310050	1	-.556270	1
1.6	.332825	1	-.200328	1	-.238880		.317028	- 2	-.386987		.351583	1	-.597371	1
1.8	.323574	1	-.231596	1	-.278030		.115899	- 1	-.425967		.384189	1	-.633911	1
2.0	.316473	1	-.263047	1	-.317962		.183675	- 1	-.465267		.416530	1	-.666562	1
2.2	.310843	1	-.294587	1	-.358574		.239432	- 1	-.504924		.448646	1	-.695885	1
2.4	.306257	1	-.326158	1	-.399800		.286117	- 1	-.544966		.480566	1	-.722350	1
2.6	.302438	1	-.357718	1	-.441594		.325781	- 1	-.585412		.512312	1	-.746349	1
2.8	.299195	1	-.389241	1	-.483927		.359894	- 1	-.626279		.543902	1	-.768208	1
3.0	.296398	1	-.420710	1	-.526776		.389543	- 1	-.667575		.575347	1	-.788201	1
3.2	.293951	1	-.452112	1	-.570127		.415545	- 1	-.709309		.606659	1	-.806559	1
3.4	.291785	1	-.483440	1	-.613969		.438529	- 1	-.751487		.637846	1	-.823477	1
3.6	.289848	1	-.514687	1	-.658294		.458988	- 1	-.794114		.668913	1	-.839121	1
3.8	.288100	1	-.545851	1	-.703096		.477309	- 1	-.837192		.699867	1	-.853634	1
4.0	.286510	1	-.576929	1	-.748372		.493808	- 1	-.880725		.730713	1	-.867138	1
4.2	.285054	1	-.607919	1	-.794117		.508737	- 1	-.924713		.761453	1	-.879738	1
4.4	.283712	1	-.638821	1	-.840329		.522307	- 1	-.969159		.792092	1	-.891526	1
4.6	.282469	1	-.669635	1	-.887006		.534690	- 1	-.101406	1	.822633	1	-.902582	1
4.8	.281311	1	-.700361	1	-.934146		.546030	- 1	-.105943	1	.853077	1	-.912976	1
5.0	.280228	1	-.730998	1	-.981747		.556450	- 1	-.110525	1	.883427	1	-.922770	1
5.2	.279212	1	-.761548	1	-.102981	1	.566054	- 1	-.115153	1	.913685	1	-.932017	1
5.4	.278254	1	-.792011	1	-.107833	1	.574930	- 1	-.119827	1	.943853	1	-.940767	1
5.6	.277349	1	-.822387	1	-.112731	1	.583153	- 1	-.124547	1	.973932	1	-.949061	1
5.8	.276492	1	-.852678	1	-.117674	1	.590789	- 1	-.129313	1	.100392	2	-.956939	1
6.0	.275676	1	-.882883	1	-.122663	1	.597896	- 1	-.134124	1	.103383	2	-.964433	1
6.2	.274900	1	-.913004	1	-.127698	1	.604522	- 1	-.138982	1	.106365	2	-.971575	1

Z = 36, A = 84

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.238987	-.600476 - 3	-.395909 - 4	.140970 1	-.178261 - 3	.294879 - 2	-.308997
.6	.147427	-.145646 - 2	-.963863 - 4	.220589 1	-.310407 - 3	.511395 - 2	-.213241
.8	.115999	-.281858 - 2	-.187419 - 3	.285647 1	-.481737 - 3	.789557 - 2	-.175782
1.0	.101157	-.473062 - 2	-.316302 - 3	.338713 1	-.692274 - 3	.112781 - 1	-.157760
1.2	.928543 - 1	-.721247 - 2	-.485189 - 3	.381824 1	-.942256 - 3	.152494 - 1	-.148188
1.4	.876871 - 1	-.102717 - 1	-.695479 - 3	.416900 1	-.123216 - 2	.198011 - 1	-.142825
1.6	.842236 - 1	-.139102 - 1	-.948219 - 3	.445603 1	-.156262 - 2	.249279 - 1	-.139742
1.8	.817703 - 1	-.181272 - 1	-.124430 - 2	.469286 1	-.193437 - 2	.306259 - 1	-.137968
2.0	.799558 - 1	-.229210 - 1	-.158456 - 2	.489011 1	-.234821 - 2	.368928 - 1	-.136976
2.2	.785665 - 1	-.282896 - 1	-.196980 - 2	.505599 1	-.280494 - 2	.437263 - 1	-.136466
2.4	.774720 - 1	-.342309 - 1	-.240083 - 2	.519682 1	-.330543 - 2	.511248 - 1	-.136259
2.6	.765886 - 1	-.407428 - 1	-.287845 - 2	.531744 1	-.385050 - 2	.590870 - 1	-.136244
2.8	.758611 - 1	-.478236 - 1	-.340348 - 2	.542165 1	-.444102 - 2	.676114 - 1	-.136353
3.0	.752513 - 1	-.554714 - 1	-.397674 - 2	.551238 1	-.507783 - 2	.766968 - 1	-.136540
3.2	.747322 - 1	-.636846 - 1	-.459904 - 2	.559195 1	-.576181 - 2	.863420 - 1	-.136776
3.4	.742846 - 1	-.724616 - 1	-.527121 - 2	.566219 1	-.649379 - 2	.965459 - 1	-.137041
3.6	.738940 - 1	-.818008 - 1	-.599407 - 2	.572459 1	-.727463 - 2	.107307	-.137322
3.8	.735496 - 1	-.917009 - 1	-.676847 - 2	.578032 1	-.810519 - 2	.118625	-.137610
4.0	.732431 - 1	-.102161	-.759523 - 2	.583037 1	-.898632 - 2	.130499	-.137900
4.2	.729681 - 1	-.113178	-.847518 - 2	.587553 1	-.991887 - 2	.142926	-.138186
4.4	.727196 - 1	-.124753	-.940916 - 2	.591646 1	-.109037 - 1	.155907	-.138467
4.6	.724934 - 1	-.136883	-.103980 - 1	.595370 1	-.119416 - 1	.169440	-.138741
4.8	.722864 - 1	-.149568	-.114425 - 1	.598773 1	-.130335 - 1	.183524	-.139007
5.0	.720959 - 1	-.162806	-.125436 - 1	.601891 1	-.141802 - 1	.198158	-.139264
5.2	.719197 - 1	-.176597	-.137020 - 1	.604760 1	-.153826 - 1	.213342	-.139511
5.4	.717561 - 1	-.190938	-.149187 - 1	.607406 1	-.166415 - 1	.229073	-.139749
5.6	.716034 - 1	-.205829	-.161943 - 1	.609855 1	-.179577 - 1	.245351	-.139979
5.8	.714604 - 1	-.221269	-.175298 - 1	.612126 1	-.193320 - 1	.262176	-.140199
6.0	.713261 - 1	-.237256	-.189261 - 1	.614239 1	-.207654 - 1	.279545	-.140410
6.2	.711996 - 1	-.253791	-.203838 - 1	.616208 1	-.222586 - 1	.297459	-.140613

z = 37, A = 88

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.746111	1	-.349996	-.415124 - 1	-.234689	-.161327	.147612 1
.6	.544264	1	-.574855	-.684257 - 1	-.123239	-.203634	.185604 1
.8	.455111	1	-.835771	-.999366 - 1	-.714054 - 1	-.244308	.221582 1
1.0	.407368	1	-.112039	1	-.134680	-.408184 - 1	-.284487
1.2	.378484	1	-.141994	1	-.171685	-.204304 - 1	-.324547
1.4	.359447	1	-.172867	1	-.210314	-.579160 - 2	-.364676
1.6	.346071	1	-.204292	1	-.250161	.526120 - 2	-.404992
1.8	.336192	1	-.236040	1	-.290970	.139157 - 1	-.445576
2.0	.328601	1	-.267964	1	-.332578	.208822 - 1	-.486483
2.2	.322575	1	-.299971	1	-.374880	.266133 - 1	-.527752
2.4	.317661	1	-.332001	1	-.417805	.314119 - 1	-.569412
2.6	.313563	1	-.364013	1	-.461308	.354887 - 1	-.611482
2.8	.310081	1	-.395981	1	-.505356	.389950 - 1	-.653978
3.0	.307074	1	-.427887	1	-.549929	.420422 - 1	-.696910
3.2	.304442	1	-.459719	1	-.595010	.447145 - 1	-.740287
3.4	.302109	1	-.491469	1	-.640588	.470766 - 1	-.784114
3.6	.300022	1	-.523132	1	-.686656	.491789 - 1	-.828397
3.8	.298136	1	-.554704	1	-.733208	.510615 - 1	-.873137
4.0	.296420	1	-.586184	1	-.780239	.527567 - 1	-.918339
4.2	.294848	1	-.617569	1	-.827745	.542904 - 1	-.964003
4.4	.293397	1	-.648860	1	-.875724	.556843 - 1	-.101013
4.6	.292053	1	-.680056	1	-.924174	.569561 - 1	-.105673
4.8	.290801	1	-.711158	1	-.973093	.581207 - 1	-.110378
5.0	.289629	1	-.742165	1	-.102248	.591906 - 1	-.115131
5.2	.288529	1	-.773079	1	-.107233	.601765 - 1	-.119930
5.4	.287492	1	-.803900	1	-.112265	.610875 - 1	-.124776
5.6	.286511	1	-.834629	1	-.117343	.619313 - 1	-.129668
5.8	.285582	1	-.865266	1	-.122467	.627147 - 1	-.134607
6.0	.284698	1	-.895812	1	-.127638	.634436 - 1	-.139592
6.2	.283857	1	-.926268	1	-.132854	.641231 - 1	-.144624

Z = 37, A = 88

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.253164	-.629346 - 3	-.426109 - 4	.136128	1	-.191474 - 3	.308133 - 2	-.318194
.6	.154639	-.151676 - 2	-.103074 - 3	.214273	1	-.331758 - 3	.531750 - 2	-.218718
.8	.121009	-.292559 - 2	-.199752 - 3	.278039	1	-.513432 - 3	.818736 - 2	-.179981
1.0	.105175	-.490069 - 2	-.336442 - 3	.330050	1	-.736539 - 3	.116754 - 1	-.161377
1.2	.963320 - 1	-.746243 - 2	-.515405 - 3	.372318	1	-.100134 - 2	.157693 - 1	-.151505
1.4	.908338 - 1	-.106186 - 1	-.738106 - 3	.406720	1	-.130831 - 2	.204606 - 1	-.145976
1.6	.871500 - 1	-.143709 - 1	-.100564 - 2	.434883	1	-.165814 - 2	.257437 - 1	-.142798
1.8	.845408 - 1	-.187187 - 1	-.131893 - 2	.458127	1	-.205157 - 2	.316148 - 1	-.140969
2.0	.826108 - 1	-.236601 - 1	-.167885 - 2	.477492	1	-.248943 - 2	.380712 - 1	-.139946
2.2	.811326 - 1	-.291929 - 1	-.208624 - 2	.493781	1	-.297258 - 2	.451107 - 1	-.139420
2.4	.799676 - 1	-.353150 - 1	-.254193 - 2	.507613	1	-.350188 - 2	.527315 - 1	-.139206
2.6	.790269 - 1	-.420243 - 1	-.304675 - 2	.519463	1	-.407821 - 2	.609320 - 1	-.139190
2.8	.782516 - 1	-.493187 - 1	-.360156 - 2	.529702	1	-.470247 - 2	.697109 - 1	-.139301
3.0	.776015 - 1	-.571964 - 1	-.420721 - 2	.538618	1	-.537554 - 2	.790667 - 1	-.139493
3.2	.770478 - 1	-.656556 - 1	-.486453 - 2	.546437	1	-.609830 - 2	.889982 - 1	-.139735
3.4	.765700 - 1	-.746945 - 1	-.557440 - 2	.553342	1	-.687165 - 2	.995042 - 1	-.140008
3.6	.761528 - 1	-.843116 - 1	-.633767 - 2	.559475	1	-.769648 - 2	.110583	-.140297
3.8	.757847 - 1	-.945054 - 1	-.715520 - 2	.564955	1	-.857367 - 2	.122235	-.140593
4.0	.754569 - 1	-.105274	-.802786 - 2	.569876	1	-.950410 - 2	.134457	-.140891
4.2	.751627 - 1	-.116617	-.895651 - 2	.574316	1	-.104887 - 1	.147249	-.141186
4.4	.748965 - 1	-.128532	-.994202 - 2	.578340	1	-.115282 - 1	.160609	-.141475
4.6	.746543 - 1	-.141019	-.109853 - 1	.582003	1	-.126237 - 1	.174537	-.141757
4.8	.744324 - 1	-.154075	-.120871 - 1	.585349	1	-.137760 - 1	.189031	-.142030
5.0	.742281 - 1	-.167700	-.132484 - 1	.588416	1	-.149859 - 1	.204090	-.142294
5.2	.740390 - 1	-.181892	-.144700 - 1	.591237	1	-.162543 - 1	.219713	-.142548
5.4	.738633 - 1	-.196650	-.157528 - 1	.593840	1	-.175821 - 1	.235899	-.142793
5.6	.736993 - 1	-.211973	-.170976 - 1	.596248	1	-.189702 - 1	.252648	-.143029
5.8	.735457 - 1	-.227859	-.185054 - 1	.598483	1	-.204195 - 1	.269956	-.143255
6.0	.734014 - 1	-.244308	-.199770 - 1	.600561	1	-.219308 - 1	.287825	-.143473
6.2	.732653 - 1	-.261319	-.215131 - 1	.602498	1	-.235049 - 1	.306252	-.143681

Z = 38, A = 89

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.784798	1	-.361890	-.440215 - 1	-.239885	-.169746	.151170 1
.6	.571022	1	-.591295	-.721784 - 1	-.124676	-.213970	.189837 1
.8	.476358	1	-.857079	-.105090	-.713104 - 1	-.256381	.226369 1
1.0	.425586	1	-.114675	1	-.141339	-.398634 - 1	-.298231
1.2	.394833	1	-.145144	1	-.179917	-.189140 - 1	-.339934
1.4	.374541	1	-.176533	1	-.220160	-.387550 - 2	-.381693
1.6	.360268	1	-.208471	1	-.261647	.747801 - 2	-.423631
1.8	.349715	1	-.240728	1	-.304114	.163677 - 1	-.465832
2.0	.341595	1	-.273155	1	-.347389	.235235 - 1	-.508353
2.2	.335142	1	-.305659	1	-.391364	.294104 - 1	-.551234
2.4	.329874	1	-.338177	1	-.435967	.343394 - 1	-.594505
2.6	.325476	1	-.370671	1	-.481150	.385271 - 1	-.638186
2.8	.321735	1	-.403113	1	-.526880	.421286 - 1	-.682292
3.0	.318502	1	-.435486	1	-.573135	.452586 - 1	-.726835
3.2	.315668	1	-.467778	1	-.619899	.480035 - 1	-.771822
3.4	.313156	1	-.499980	1	-.667161	.504296 - 1	-.817260
3.6	.310905	1	-.532089	1	-.714912	.525888 - 1	-.863153
3.8	.308871	1	-.564101	1	-.763147	.545223 - 1	-.909505
4.0	.307018	1	-.596013	1	-.811860	.562632 - 1	-.956320
4.2	.305320	1	-.627824	1	-.861050	.578382 - 1	-.100360 1
4.4	.303752	1	-.659536	1	-.910712	.592695 - 1	-.105134 1
4.6	.302299	1	-.691146	1	-.960845	.605752 - 1	-.109955 1
4.8	.300944	1	-.722656	1	-.101145	1	.617709 - 1
5.0	.299676	1	-.754066	1	-.106252	1	.628692 - 1
5.2	.298484	1	-.785376	1	-.111405	1	.638811 - 1
5.4	.297361	1	-.816588	1	-.116605	1	.648160 - 1
5.6	.296299	1	-.847703	1	-.121852	1	.656819 - 1
5.8	.295292	1	-.878721	1	-.127145	1	.664857 - 1
6.0	.294334	1	-.909643	1	-.132484	1	.672334 - 1
6.2	.293422	1	-.940469	1	-.137869	1	.679304 - 1

Z = 38, A = 89

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.268272	-.652065 - 3	-.452627 - 4	.131507 1	-.203148 - 3	.318285 - 2	-.327463
.6	.162286	-.156159 - 2	-.108788 - 3	.208272 1	-.350250 - 3	.546611 - 2	-.224176
.8	.126306	-.300219 - 2	-.210116 - 3	.270823 1	-.540523 - 3	.839338 - 2	-.184142
1.0	.109417	-.501928 - 2	-.353176 - 3	.321842 1	-.774018 - 3	.119494 - 1	-.164951
1.2	.100000	-.763350 - 2	-.540300 - 3	.363315 1	-.105100 - 2	.161218 - 1	-.154775
1.4	.941503 - 1	-.108527 - 1	-.772995 - 3	.397084 1	-.137195 - 2	.209022 - 1	-.149079
1.6	.902327 - 1	-.146786 - 1	-.105238 - 2	.424737 1	-.173756 - 2	.262848 - 1	-.145806
1.8	.874580 - 1	-.191104 - 1	-.137939 - 2	.447569 1	-.214858 - 2	.322657 - 1	-.143922
2.0	.854054 - 1	-.241462 - 1	-.175492 - 2	.466596 1	-.260586 - 2	.388420 - 1	-.142868
2.2	.838329 - 1	-.297838 - 1	-.217981 - 2	.482605 1	-.311025 - 2	.460116 - 1	-.142325
2.4	.825929 - 1	-.360209 - 1	-.265491 - 2	.496201 1	-.366265 - 2	.537725 - 1	-.142104
2.6	.815912 - 1	-.428552 - 1	-.318106 - 2	.507852 1	-.426394 - 2	.621230 - 1	-.142087
2.8	.807654 - 1	-.502847 - 1	-.375913 - 2	.517921 1	-.491502 - 2	.710618 - 1	-.142201
3.0	.800723 - 1	-.583074 - 1	-.438998 - 2	.526689 1	-.561680 - 2	.805872 - 1	-.142398
3.2	.794818 - 1	-.669215 - 1	-.507445 - 2	.534381 1	-.637017 - 2	.906980 - 1	-.142646
3.4	.789718 - 1	-.761251 - 1	-.581344 - 2	.541173 1	-.717604 - 2	.101393	-.142926
3.6	.785263 - 1	-.859165 - 1	-.660780 - 2	.547207 1	-.803531 - 2	.112671	-.143223
3.8	.781329 - 1	-.962943 - 1	-.745842 - 2	.552598 1	-.894888 - 2	.124530	-.143528
4.0	.777825 - 1	-.107257	-.836616 - 2	.557440 1	-.991764 - 2	.136969	-.143833
4.2	.774677 - 1	-.118803	-.933191 - 2	.561810 1	-.109425 - 1	.149987	-.144136
4.4	.771828 - 1	-.130930	-.103565 - 1	.565770 1	-.120243 - 1	.163583	-.144433
4.6	.769234 - 1	-.143638	-.114409 - 1	.569375 1	-.131641 - 1	.177756	-.144723
4.8	.766856 - 1	-.156925	-.125860 - 1	.572668 1	-.143626 - 1	.192504	-.145004
5.0	.764666 - 1	-.170790	-.137925 - 1	.575687 1	-.156208 - 1	.207827	-.145275
5.2	.762638 - 1	-.185231	-.150615 - 1	.578464 1	-.169395 - 1	.223722	-.145537
5.4	.760752 - 1	-.200247	-.163937 - 1	.581026 1	-.183197 - 1	.240189	-.145788
5.6	.758992 - 1	-.215838	-.177901 - 1	.583397 1	-.197622 - 1	.257227	-.146030
5.8	.757343 - 1	-.232000	-.192516 - 1	.585596 1	-.212679 - 1	.274835	-.146263
6.0	.755792 - 1	-.248735	-.207789 - 1	.587642 1	-.228378 - 1	.293011	-.146486
6.2	.754329 - 1	-.266039	-.223730 - 1	.589550 1	-.244726 - 1	.311754	-.146701

Z = 39, A = 91

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.825272	1	-.374160		-.466647	- 1	-.245019		-.178450		.154783	1	-.251762	1
.6	.599028	1	-.608203		-.761151	- 1	-.125999		-.224659		.194142	1	-.304271	1
.8	.498584	1	-.878946		-.110482		-.710921	- 1	-.268862		.231242	1	-.360236	1
1.0	.444627	1	-.117376	1	-.148295		-.387829	- 1	-.312435		.267241	1	-.411375	1
1.2	.411905	1	-.148367	1	-.188505		-.172713	- 1	-.355832		.302522	1	-.456734	1
1.4	.390290	1	-.180279	1	-.230425		-.183284	- 2	-.399271		.337268	1	-.496724	1
1.6	.375068	1	-.212737	1	-.273617		.982160	- 2	-.442883		.371596	1	-.532028	1
1.8	.363800	1	-.245509	1	-.317806		.189466	- 1	-.486754		.405583	1	-.563322	1
2.0	.355120	1	-.278444	1	-.362815		.262919	- 1	-.530944		.439284	1	-.591201	1
2.2	.348214	1	-.311448	1	-.408532		.323346	- 1	-.575493		.472742	1	-.616168	1
2.4	.342570	1	-.344459	1	-.454882		.373941	- 1	-.620433		.505984	1	-.638644	1
2.6	.337854	1	-.377437	1	-.501815		.416926	- 1	-.665782		.539033	1	-.658977	1
2.8	.333838	1	-.410356	1	-.549298		.453894	- 1	-.711559		.571907	1	-.677458	1
3.0	.330363	1	-.443198	1	-.597308		.486022	- 1	-.757772		.604617	1	-.694328	1
3.2	.327315	1	-.475950	1	-.645828		.514195	- 1	-.804432		.637176	1	-.709792	1
3.4	.324611	1	-.508607	1	-.694848		.539096	- 1	-.851545		.669591	1	-.724021	1
3.6	.322186	1	-.541161	1	-.744358		.561257	- 1	-.899115		.701869	1	-.737160	1
3.8	.319994	1	-.573612	1	-.794353		.581100	- 1	-.947146		.734016	1	-.749333	1
4.0	.317995	1	-.605956	1	-.844829		.598964	- 1	-.995640		.766037	1	-.760647	1
4.2	.316162	1	-.638192	1	-.895781		.615125	- 1	-.104460	1	.797936	1	-.771193	1
4.4	.314469	1	-.670322	1	-.947207		.629809	- 1	-.109403	1	.829716	1	-.781051	1
4.6	.312899	1	-.702344	1	-.999105		.643205	- 1	-.114392	1	.861382	1	-.790289	1
4.8	.311435	1	-.734259	1	-.105147	1	.655470	- 1	-.119429	1	.892935	1	-.798968	1
5.0	.310064	1	-.766068	1	-.110431	1	.666734	- 1	-.124512	1	.924377	1	-.807142	1
5.2	.308775	1	-.797772	1	-.115762	1	.677112	- 1	-.129642	1	.955712	1	-.814855	1
5.4	.307560	1	-.829371	1	-.121139	1	.686697	- 1	-.134820	1	.986942	1	-.822150	1
5.6	.306411	1	-.860867	1	-.126563	1	.695574	- 1	-.140044	1	.101807	2	-.829064	1
5.8	.305320	1	-.892260	1	-.132033	1	.703813	- 1	-.145315	1	.104909	2	-.835628	1
6.0	.304283	1	-.923552	1	-.137549	1	.711475	- 1	-.150633	1	.108001	2	-.841872	1
6.2	.303295	1	-.954743	1	-.143112	1	.718615	- 1	-.155997	1	.111083	2	-.847823	1

Z = 39, A = 91

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.284221	-.678031 - 3	-.482381 - 4	.127090	1	-.216147 - 3	.329929 - 2	-.336807
.6	.170303	-.161360 - 2	-.115207 - 3	.202563	1	-.370864 - 3	.563913 - 2	-.229618
.8	.131836	-.309208 - 2	-.221771 - 3	.263969	1	-.570752 - 3	.863587 - 2	-.188267
1.0	.113834	-.515960 - 2	-.372014 - 3	.314052	1	-.815880 - 3	.122744 - 1	-.168481
1.2	.103812	-.783713 - 2	-.568356 - 3	.354777	1	-.110651 - 2	.165425 - 1	-.158000
1.4	.975927 - 1	-.111326 - 1	-.812353 - 3	.387949	1	-.144316 - 2	.214313 - 1	-.152135
1.6	.934290 - 1	-.150477 - 1	-.110515 - 2	.415124	1	-.182650 - 2	.269352 - 1	-.148765
1.8	.904803 - 1	-.195817 - 1	-.144772 - 2	.437568	1	-.225732 - 2	.330501 - 1	-.146826
2.0	.882987 - 1	-.247324 - 1	-.184096 - 2	.456277	1	-.273647 - 2	.397730 - 1	-.145741
2.2	.866268 - 1	-.304977 - 1	-.228574 - 2	.472022	1	-.326484 - 2	.471015 - 1	-.145182
2.4	.853080 - 1	-.368749 - 1	-.278292 - 2	.485397	1	-.384332 - 2	.550337 - 1	-.144953
2.6	.842422 - 1	-.438619 - 1	-.333336 - 2	.496861	1	-.447283 - 2	.635679 - 1	-.144935
2.8	.833629 - 1	-.514565 - 1	-.393795 - 2	.506769	1	-.515428 - 2	.727023 - 1	-.145051
3.0	.826247 - 1	-.596565 - 1	-.459756 - 2	.515400	1	-.588860 - 2	.824355 - 1	-.145253
3.2	.819952 - 1	-.684599 - 1	-.531307 - 2	.522971	1	-.667672 - 2	.927660 - 1	-.145508
3.4	.814514 - 1	-.778650 - 1	-.608536 - 2	.529658	1	-.751954 - 2	.103692	-.145795
3.6	.809759 - 1	-.878700 - 1	-.691534 - 2	.535599	1	-.841799 - 2	.115213	-.146100
3.8	.805559 - 1	-.984730 - 1	-.780388 - 2	.540908	1	-.937299 - 2	.127327	-.146413
4.0	.801815 - 1	-.109673	-.875189 - 2	.545676	1	-.103855 - 1	.140033	-.146727
4.2	.798450 - 1	-.121467	-.976027 - 2	.549979	1	-.114563 - 1	.153330	-.147038
4.4	.795403 - 1	-.133855	-.108299 - 1	.553880	1	-.125865 - 1	.167215	-.147343
4.6	.792627 - 1	-.146835	-.119617 - 1	.557430	1	-.137768 - 1	.181689	-.147640
4.8	.790081 - 1	-.160406	-.131565 - 1	.560673	1	-.150283 - 1	.196749	-.147928
5.0	.787735 - 1	-.174565	-.144154 - 1	.563647	1	-.163419 - 1	.212395	-.148207
5.2	.785562 - 1	-.189313	-.157390 - 1	.566383	1	-.177184 - 1	.228625	-.148476
5.4	.783540 - 1	-.204646	-.171284 - 1	.568907	1	-.191587 - 1	.245438	-.148734
5.6	.781652 - 1	-.220565	-.185845 - 1	.571243	1	-.206638 - 1	.262832	-.148983
5.8	.779882 - 1	-.237068	-.201080 - 1	.573410	1	-.222346 - 1	.280807	-.149222
6.0	.778217 - 1	-.254152	-.217001 - 1	.575426	1	-.238719 - 1	.299362	-.149451
6.2	.776646 - 1	-.271819	-.233614 - 1	.577305	1	-.255767 - 1	.318494	-.149672

Z = 40, A = 93

p	F ₀		f ₁		ε ₁		tanΔ ₁		f ₋₁		ε ₋₁		tanΔ ₋₁	
.4	.867863	1	-.386875		-.494417	- 1	-.250091		-.187475		.158478	1	-.246554	1
.6	.628520	1	-.625691		-.802324	- 1	-.127207		-.235742		.198554	1	-.295586	1
.8	.521983	1	-.901528		-.116104		-.707489	- 1	-.281796		.236240	1	-.348825	1
1.0	.464661	1	-.120162	1	-.155531		-.375752	- 1	-.327144		.272776	1	-.397595	1
1.2	.429855	1	-.151689	1	-.197426		-.155006	- 1	-.372285		.308570	1	-.440850	1
1.4	.406837	1	-.184136	1	-.241074		.338215	- 3	-.417452		.343816	1	-.478957	1
1.6	.390608	1	-.217127	1	-.286022		.122939	- 1	-.462784		.378634	1	-.512566	1
1.8	.378580	1	-.250425	1	-.331984		.216545	- 1	-.508370		.413104	1	-.542329	1
2.0	.369305	1	-.283880	1	-.378777		.291893	- 1	-.554273		.447281	1	-.568819	1
2.2	.361916	1	-.317395	1	-.426284		.353881	- 1	-.600534		.481205	1	-.592521	1
2.4	.355872	1	-.350910	1	-.474429		.405783	- 1	-.647184		.514908	1	-.613841	1
2.6	.350815	1	-.384383	1	-.523160		.449877	- 1	-.694245		.548410	1	-.633114	1
2.8	.346505	1	-.417788	1	-.572443		.487800	- 1	-.741732		.581729	1	-.650620	1
3.0	.342772	1	-.451107	1	-.622254		.520756	- 1	-.789658		.614879	1	-.666590	1
3.2	.339495	1	-.484330	1	-.672576		.549655	- 1	-.838032		.647870	1	-.681222	1
3.4	.336585	1	-.517448	1	-.723398		.575196	- 1	-.886859		.680710	1	-.694677	1
3.6	.333975	1	-.550456	1	-.774711		.597925	- 1	-.936144		.713408	1	-.707097	1
3.8	.331612	1	-.583353	1	-.826510		.618276	- 1	-.985892		.745967	1	-.718600	1
4.0	.329458	1	-.616136	1	-.878789		.636596	- 1	-.103611	1	.778394	1	-.729287	1
4.2	.327480	1	-.648805	1	-.931546		.653168	- 1	-.108679	1	.810694	1	-.739245	1
4.4	.325654	1	-.681359	1	-.984777		.668224	- 1	-.113794	1	.842868	1	-.748551	1
4.6	.323958	1	-.713799	1	-.103848	1	.681958	- 1	-.118955	1	.874922	1	-.757270	1
4.8	.322377	1	-.746125	1	-.109266	1	.694530	- 1	-.124164	1	.906857	1	-.765460	1
5.0	.320895	1	-.778339	1	-.114730	1	.706076	- 1	-.129421	1	.938676	1	-.773171	1
5.2	.319503	1	-.810441	1	-.120242	1	.716710	- 1	-.134724	1	.970382	1	-.780448	1
5.4	.318189	1	-.842433	1	-.125800	1	.726532	- 1	-.140074	1	.100198	2	-.787329	1
5.6	.316946	1	-.874315	1	-.131404	1	.735625	- 1	-.145472	1	.103346	2	-.793849	1
5.8	.315766	1	-.906088	1	-.137056	1	.744064	- 1	-.150916	1	.106484	2	-.800040	1
6.0	.314645	1	-.937755	1	-.142753	1	.751910	- 1	-.156408	1	.109611	2	-.805928	1
6.2	.313575	1	-.969314	1	-.148497	1	.759220	- 1	-.161946	1	.112728	2	-.811540	1

Z = 40, A = 93

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.301097	-.704931 - 3	-.513717 - 4	.122860	1	-.229782 - 3	.341928 - 2	-.346229
.6	.178732	-.166721 - 2	-.121923 - 3	.197122	1	-.392390 - 3	.581691 - 2	-.235042
.8	.137630	-.318444 - 2	-.233920 - 3	.257450	1	-.602228 - 3	.888453 - 2	-.192354
1.0	.118449	-.530350 - 2	-.391606 - 3	.306650	1	-.859387 - 3	.126073 - 1	-.171968
1.2	.107790	-.804568 - 2	-.597490 - 3	.346669	1	-.116414 - 2	.169728 - 1	-.161178
1.4	.101180	-.114190 - 1	-.853175 - 3	.379279	1	-.151700 - 2	.219722 - 1	-.155143
1.6	.967568 - 1	-.154252 - 1	-.115984 - 2	.406002	1	-.191866 - 2	.275997 - 1	-.151676
1.8	.936247 - 1	-.200633 - 1	-.151849 - 2	.428081	1	-.236992 - 2	.338511 - 1	-.149681
2.0	.913070 - 1	-.253312 - 1	-.193002 - 2	.446490	1	-.287166 - 2	.407232 - 1	-.148565
2.2	.895304 - 1	-.312265 - 1	-.239533 - 2	.461988	1	-.342476 - 2	.482136 - 1	-.147989
2.4	.881284 - 1	-.377465 - 1	-.291529 - 2	.475156	1	-.403016 - 2	.563202 - 1	-.147753
2.6	.869948 - 1	-.448890 - 1	-.349080 - 2	.486444	1	-.468879 - 2	.650411 - 1	-.147733
2.8	.860592 - 1	-.526516 - 1	-.412275 - 2	.496202	1	-.540157 - 2	.743747 - 1	-.147852
3.0	.852731 - 1	-.610320 - 1	-.481202 - 2	.504702	1	-.616945 - 2	.843192 - 1	-.148059
3.2	.846026 - 1	-.700283 - 1	-.555951 - 2	.512161	1	-.699338 - 2	.948731 - 1	-.148320
3.4	.840229 - 1	-.796384 - 1	-.636614 - 2	.518749	1	-.787429 - 2	.106035	-.148615
3.6	.835158 - 1	-.898604 - 1	-.723282 - 2	.524603	1	-.881312 - 2	.117803	-.148927
3.8	.830676 - 1	-.100693	-.816044 - 2	.529834	1	-.981081 - 2	.130177	-.149248
4.0	.826678 - 1	-.112133	-.914994 - 2	.534533	1	-.108683 - 1	.143153	-.149570
4.2	.823083 - 1	-.124181	-.102022 - 1	.538774	1	-.119865 - 1	.156732	-.149889
4.4	.819827 - 1	-.136834	-.113182 - 1	.542619	1	-.131664 - 1	.170912	-.150202
4.6	.816857 - 1	-.150090	-.124988 - 1	.546118	1	-.144090 - 1	.185692	-.150507
4.8	.814133 - 1	-.163949	-.137449 - 1	.549316	1	-.157150 - 1	.201069	-.150803
5.0	.811622 - 1	-.178408	-.150575 - 1	.552247	1	-.170855 - 1	.217043	-.151089
5.2	.809294 - 1	-.193466	-.164374 - 1	.554944	1	-.185214 - 1	.233613	-.151365
5.4	.807129 - 1	-.209122	-.178856 - 1	.557433	1	-.200237 - 1	.250777	-.151630
5.6	.805105 - 1	-.225375	-.194030 - 1	.559736	1	-.215932 - 1	.268534	-.151886
5.8	.803207 - 1	-.242222	-.209906 - 1	.561872	1	-.232309 - 1	.286882	-.152131
6.0	.801421 - 1	-.259663	-.226491 - 1	.563860	1	-.249376 - 1	.305820	-.152366
6.2	.799736 - 1	-.277696	-.243796 - 1	.565713	1	-.267144 - 1	.325348	-.152593

Z = 41, A = 97

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁	
.4	.912117	1	-.399918		-.523692 - 1	-.255100	-.196767		.162200	1	-.241622 1
.6	.659166	1	-.643558		-.845566 - 1	-.128296	-.247156		.203003	1	-.287316 1
.8	.546279	1	-.924531		-.121995	-.702792 - 1	-.295116		.241279	1	-.337968 1
1.0	.485439	1	-.122993	1	-.163104	-.362388 - 1	-.342292		.278352	1	-.384499 1
1.2	.448450	1	-.155057	1	-.206755	-.136005 - 1	-.389230		.314658	1	-.425771 1
1.4	.423959	1	-.188041	1	-.252206	.263905 - 2	-.436180		.350402	1	-.462105 1
1.6	.406671	1	-.221565	1	-.298988	.148961 - 1	-.483290		.385707	1	-.494123 1
1.8	.393844	1	-.255388	1	-.346804	.244924 - 1	-.530653		.420654	1	-.522450 1
2.0	.383940	1	-.289359	1	-.395465	.322169 - 1	-.578332		.455299	1	-.547639 1
2.2	.376043	1	-.323383	1	-.444850	.385717 - 1	-.626372		.489684	1	-.570159 1
2.4	.369575	1	-.357395	1	-.494879	.438926 - 1	-.674803		.523838	1	-.590400 1
2.6	.364158	1	-.391358	1	-.545501	.484129 - 1	-.723649		.557784	1	-.608684 1
2.8	.359537	1	-.425242	1	-.596678	.523004 - 1	-.772924		.591540	1	-.625282 1
3.0	.355531	1	-.459032	1	-.648388	.556787 - 1	-.822642		.625118	1	-.640416 1
3.2	.352012	1	-.492717	1	-.700613	.586410 - 1	-.872811		.658530	1	-.654273 1
3.4	.348884	1	-.526287	1	-.753340	.612589 - 1	-.923438		.691784	1	-.667012 1
3.6	.346076	1	-.559740	1	-.806563	.635884 - 1	-.974528		.724888	1	-.678765 1
3.8	.343534	1	-.593073	1	-.860274	.656739 - 1	-.102608	1	.757846	1	-.689647 1
4.0	.341214	1	-.626284	1	-.914469	.675512 - 1	-.107811	1	.790666	1	-.699754 1
4.2	.339083	1	-.659372	1	-.969145	.692491 - 1	-.113061	1	.823350	1	-.709170 1
4.4	.337114	1	-.692338	1	-.102430	.707915 - 1	-.118358	1	.855903	1	-.717967 1
4.6	.335285	1	-.725183	1	-.107993	.721982 - 1	-.123703	1	.888328	1	-.726207 1
4.8	.333579	1	-.757906	1	-.113603	.734857 - 1	-.129095	1	.920629	1	-.733947 1
5.0	.331981	1	-.790510	1	-.119261	.746678 - 1	-.134535	1	.952807	1	-.741233 1
5.2	.330477	1	-.822995	1	-.124966	.757565 - 1	-.140022	1	.984865	1	-.748108 1
5.4	.329059	1	-.855363	1	-.130718	.767617 - 1	-.145557	1	.101681	2	-.754610 1
5.6	.327716	1	-.887614	1	-.136517	.776921 - 1	-.151139	1	.104863	2	-.760770 1
5.8	.326442	1	-.919750	1	-.142363	.785553 - 1	-.156769	1	.108034	2	-.766619 1
6.0	.325230	1	-.951772	1	-.148256	.793577 - 1	-.162447	1	.111194	2	-.772183 1
6.2	.324073	1	-.983681	1	-.154196	.801050 - 1	-.168172	1	.114343	2	-.777486 1

Z = 41, A = 97

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.318852	-.737781 - 3	-.550732 - 4	.118804	1	-.245743 - 3	.356702 - 2	-.355732
.6	.187536	-.173417 - 2	-.129900 - 3	.191931	1	-.417701 - 3	.604035 - 2	-.240449
.8	.143654	-.330164 - 2	-.248409 - 3	.251241	1	-.639362 - 3	.920163 - 2	-.196405
1.0	.123235	-.548814 - 2	-.415044 - 3	.299607	1	-.910849 - 3	.130361 - 1	-.175411
1.2	.111906	-.831541 - 2	-.632428 - 3	.338961	1	-.123245 - 2	.175312 - 1	-.164309
1.4	.104886	-.117916 - 1	-.902235 - 3	.371039	1	-.160470 - 2	.226781 - 1	-.158103
1.6	.100191	-.159185 - 1	-.122569 - 2	.397337	1	-.202831 - 2	.284705 - 1	-.154539
1.8	.968662 - 1	-.206950 - 1	-.160383 - 2	.419071	1	-.250412 - 2	.349042 - 1	-.152487
2.0	.944058 - 1	-.261188 - 1	-.203759 - 2	.437199	1	-.303302 - 2	.419758 - 1	-.151339
2.2	.925193 - 1	-.321874 - 1	-.252790 - 2	.452463	1	-.361595 - 2	.496828 - 1	-.150746
2.4	.910300 - 1	-.388980 - 1	-.307566 - 2	.465436	1	-.425385 - 2	.580229 - 1	-.150503
2.6	.898253 - 1	-.462482 - 1	-.368180 - 2	.476559	1	-.494770 - 2	.669942 - 1	-.150482
2.8	.888305 - 1	-.542354 - 1	-.434723 - 2	.486175	1	-.569845 - 2	.765947 - 1	-.150603
3.0	.879943 - 1	-.628574 - 1	-.507287 - 2	.494554	1	-.650709 - 2	.868227 - 1	-.150815
3.2	.872805 - 1	-.721118 - 1	-.585966 - 2	.501907	1	-.737459 - 2	.976766 - 1	-.151083
3.4	.866631 - 1	-.819967 - 1	-.670854 - 2	.508402	1	-.830192 - 2	.109155	-.151384
3.6	.861227 - 1	-.925100 - 1	-.762044 - 2	.514174	1	-.929005 - 2	.121255	-.151705
3.8	.856448 - 1	-.103650	-.859631 - 2	.519333	1	-.103400 - 1	.133977	-.152034
4.0	.852183 - 1	-.115414	-.963709 - 2	.523967	1	-.114526 - 1	.147319	-.152364
4.2	.848346 - 1	-.127802	-.107437 - 1	.528150	1	-.126290 - 1	.161278	-.152691
4.4	.844868 - 1	-.140811	-.119172 - 1	.531942	1	-.138700 - 1	.175854	-.153012
4.6	.841695 - 1	-.154439	-.131584 - 1	.535394	1	-.151768 - 1	.191045	-.153325
4.8	.838783 - 1	-.168685	-.144683 - 1	.538548	1	-.165501 - 1	.206850	-.153628
5.0	.836097 - 1	-.183548	-.158479 - 1	.541441	1	-.179910 - 1	.223267	-.153922
5.2	.833607 - 1	-.199025	-.172980 - 1	.544101	1	-.195005 - 1	.240295	-.154205
5.4	.831289 - 1	-.215115	-.188197 - 1	.546557	1	-.210794 - 1	.257932	-.154477
5.6	.829122 - 1	-.231818	-.204139 - 1	.548829	1	-.227288 - 1	.276178	-.154739
5.8	.827089 - 1	-.249130	-.220816 - 1	.550937	1	-.244497 - 1	.295030	-.154990
6.0	.825175 - 1	-.267051	-.238236 - 1	.552898	1	-.262429 - 1	.314487	-.155232
6.2	.823369 - 1	-.285580	-.256410 - 1	.554726	1	-.281094 - 1	.334548	-.155464

Z = 42, A = 96

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.960230	1	-.413790	-.554192 - 1	-.260044	-.206569	.166158 1
.6	.692550	1	-.662613	-.890347 - 1	-.129266	-.259189	.207751 1
.8	.572777	1	-.949119	-.128067	-.696811 - 1	-.309137	.246675 1
1.0	.508118	1	-.126026	1	-.170877	-.347715 - 1	-.358204
1.2	.468755	1	-.158671	1	-.216296	-.115683 - 1	-.406986
1.4	.442660	1	-.192238	1	-.263553	.507279 - 2	-.455756
1.6	.424219	1	-.226340	1	-.312161	.176319 - 1	-.504667
1.8	.410520	1	-.260736	1	-.361814	.274646 - 1	-.553818
2.0	.399932	1	-.295273	1	-.412315	.353795 - 1	-.603276
2.2	.391478	1	-.329852	1	-.463539	.418910 - 1	-.653085
2.4	.384548	1	-.364413	1	-.515405	.473432 - 1	-.703277
2.6	.378738	1	-.398914	1	-.567859	.519752 - 1	-.753877
2.8	.373776	1	-.433329	1	-.620863	.559588 - 1	-.804900
3.0	.369472	1	-.467641	1	-.674394	.594206 - 1	-.856359
3.2	.365688	1	-.501839	1	-.728433	.624561 - 1	-.908263
3.4	.362322	1	-.535915	1	-.782969	.651386 - 1	-.960620
3.6	.359298	1	-.569865	1	-.837994	.675256 - 1	-.101343
3.8	.356558	1	-.603687	1	-.893501	.696625 - 1	-.106671
4.0	.354057	1	-.637380	1	-.949485	.715859 - 1	-.112045
4.2	.351758	1	-.670943	1	-.100594	1	.733255 - 1
4.4	.349634	1	-.704377	1	-.106288	1	.749057 - 1
4.6	.347660	1	-.737683	1	-.112028	1	.763467 - 1
4.8	.345817	1	-.770861	1	-.117815	1	.776656 - 1
5.0	.344090	1	-.803912	1	-.123649	1	.788764 - 1
5.2	.342466	1	-.836839	1	-.129529	1	.799914 - 1
5.4	.340932	1	-.869642	1	-.135457	1	.810208 - 1
5.6	.339481	1	-.902323	1	-.141430	1	.819735 - 1
5.8	.338103	1	-.934882	1	-.147450	1	.828573 - 1
6.0	.336792	1	-.967323	1	-.153517	1	.836787 - 1
6.2	.335541	1	-.999645	1	-.159629	1	.844437 - 1

Z = 42, A = 96

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.337898	-.759114 - 3	-.579325 - 4	.114910	1 -.258189 - 3	.365806 - 2	-.365321
.6	.196948	-.177344 - 2	-.135800 - 3	.186972	1 -.436832 - 3	.616656 - 2	-.245840
.8	.150084	-.336557 - 2	-.258830 - 3	.245320	1 -.666831 - 3	.936958 - 2	-.200418
1.0	.128338	-.558372 - 2	-.431577 - 3	.292899	1 -.948318 - 3	.132528 - 1	-.178809
1.2	.116291	-.844977 - 2	-.656714 - 3	.331623	1 -.128158 - 2	.178037 - 1	-.167393
1.4	.108834	-.119719 - 1	-.935942 - 3	.363199	1 -.166713 - 2	.230133 - 1	-.161014
1.6	.103848	-.161517 - 1	-.127049 - 2	.389096	1 -.210570 - 2	.288754 - 1	-.157352
1.8	.100318	-.209881 - 1	-.166140 - 2	.410506	1 -.259810 - 2	.353857 - 1	-.155244
2.0	.977050 - 1	-.264788 - 1	-.210961 - 2	.428368	1 -.314523 - 2	.425407 - 1	-.154063
2.2	.957010 - 1	-.326211 - 1	-.261604 - 2	.443413	1 -.374801 - 2	.503377 - 1	-.153454
2.4	.941184 - 1	-.394122 - 1	-.318159 - 2	.456202	1 -.440740 - 2	.587744 - 1	-.153203
2.6	.928377 - 1	-.468494 - 1	-.380719 - 2	.467169	1 -.512436 - 2	.678488 - 1	-.153180
2.8	.917795 - 1	-.549302 - 1	-.449373 - 2	.476653	1 -.589986 - 2	.775587 - 1	-.153304
3.0	.908896 - 1	-.636523 - 1	-.524215 - 2	.484918	1 -.673486 - 2	.879025 - 1	-.153520
3.2	.901295 - 1	-.730132 - 1	-.605338 - 2	.492171	1 -.763034 - 2	.988784 - 1	-.153794
3.4	.894717 - 1	-.830109 - 1	-.692836 - 2	.498579	1 -.858728 - 2	.110485	-.154104
3.6	.888957 - 1	-.936433 - 1	-.786801 - 2	.504274	1 -.960664 - 2	.122720	-.154432
3.8	.883860 - 1	-.104908	-.887328 - 2	.509365	1 -.106894 - 1	.135582	-.154769
4.0	.879309 - 1	-.116804	-.994511 - 2	.513938	1 -.118365 - 1	.149069	-.155107
4.2	.875212 - 1	-.129329	-.110845 - 1	.518067	1 -.130490 - 1	.163181	-.155443
4.4	.871497 - 1	-.142481	-.122923 - 1	.521810	1 -.143278 - 1	.177915	-.155772
4.6	.868106 - 1	-.156258	-.135695 - 1	.525217	1 -.156738 - 1	.193269	-.156092
4.8	.864993 - 1	-.170659	-.149170 - 1	.528331	1 -.170881 - 1	.209244	-.156403
5.0	.862119 - 1	-.185682	-.163359 - 1	.531186	1 -.185716 - 1	.225836	-.156704
5.2	.859455 - 1	-.201326	-.178270 - 1	.533813	1 -.201253 - 1	.243044	-.156994
5.4	.856973 - 1	-.217589	-.193913 - 1	.536237	1 -.217500 - 1	.260867	-.157273
5.6	.854652 - 1	-.234468	-.210297 - 1	.538480	1 -.234469 - 1	.279304	-.157541
5.8	.852474 - 1	-.251964	-.227433 - 1	.540562	1 -.252168 - 1	.298353	-.157799
6.0	.850423 - 1	-.270074	-.245328 - 1	.542498	1 -.270607 - 1	.318013	-.158047
6.2	.848486 - 1	-.288797	-.263994 - 1	.544304	1 -.289795 - 1	.338282	-.158285

z = 43, A = 99

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁	
.4	.100965	2	-.427880		-.586432	- 1	-.264923		-.216592	.170086	1
.6	.726824	1	-.681857		-.937547	- 1	-.130116		-.271500	.212465	1
.8	.599945	1	-.973840		-.134457		-.689534	- 1	-.323488	.252027	1
1.0	.531331	1	-.129063	1	-.179054		-.331722	- 1	-.374500	.290267	1
1.2	.489504	1	-.162280	1	-.226332		-.940335	- 2	-.425185	.327685	1
1.4	.461743	1	-.196417	1	-.275494		.763949	- 2	-.475037	.364507	1
1.6	.442100	1	-.231085	1	-.326035		.205008	- 1	-.526620	.400866	1
1.8	.427492	1	-.266038	1	-.377637		.305699	- 1	-.577637	.436847	1
2.0	.416188	1	-.301122	1	-.430097		.386751	- 1	-.628957	.472508	1
2.2	.407153	1	-.336240	1	-.483286		.453433	- 1	-.680626	.507891	1
2.4	.399738	1	-.371329	1	-.537121		.509266	- 1	-.732678	.543027	1
2.6	.393516	1	-.406347	1	-.591545		.556700	- 1	-.785136	.577939	1
2.8	.388198	1	-.441270	1	-.646520		.597493	- 1	-.838018	.612644	1
3.0	.383580	1	-.476079	1	-.702022		.632942	- 1	-.891336	.647157	1
3.2	.379517	1	-.510764	1	-.758033		.664023	- 1	-.945101	.681488	1
3.4	.375900	1	-.545318	1	-.814540		.691490	- 1	-.999319	.715646	1
3.6	.372650	1	-.579738	1	-.871536		.715928	- 1	-.105400	.749640	1
3.8	.369702	1	-.614020	1	-.929015		.737804	- 1	-.110914	.783474	1
4.0	.367010	1	-.648164	1	-.986971		.757492	- 1	-.116474	.817156	1
4.2	.364535	1	-.682170	1	-.104540	1	.775297	- 1	-.122082	.850689	1
4.4	.362247	1	-.716039	1	-.110431	1	.791469	- 1	-.127736	.884078	1
4.6	.360119	1	-.749771	1	-.116368	1	.806214	- 1	-.133438	.917326	1
4.8	.358133	1	-.783368	1	-.122352	1	.819706	- 1	-.139187	.950437	1
5.0	.356271	1	-.816831	1	-.128383	1	.832092	- 1	-.144984	.983413	1
5.2	.354518	1	-.850162	1	-.134461	1	.843494	- 1	-.150828	.101626	2
5.4	.352864	1	-.883361	1	-.140586	1	.854020	- 1	-.156719	.104897	2
5.6	.351298	1	-.916431	1	-.146757	1	.863759	- 1	-.162657	.108156	2
5.8	.349811	1	-.949374	1	-.152975	1	.872790	- 1	-.168643	.111402	2
6.0	.348395	1	-.982189	1	-.159239	1	.881183	- 1	-.174676	.114636	2
6.2	.347045	1	-.101488	2	-.165549	1	.888995	- 1	-.180757	.117858	2

Z = 43, A = 99

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.357830	-.791587 - 3	-.617980 - 4	.111165	1	-.274762 - 3	.380171 - 2	-.374998
.6	.206720	-.183814 - 2	-.143980 - 3	.182229	1	-.462788 - 3	.638030 - 2	-.251214
.8	.156724	-.347720 - 2	-.273531 - 3	.239669	1	-.704600 - 3	.966948 - 2	-.204394
1.0	.133589	-.575792 - 2	-.455192 - 3	.286502	1	-.100037 - 2	.136552 - 1	-.182164
1.2	.120794	-.870255 - 2	-.691744 - 3	.324630	1	-.135038 - 2	.183247 - 1	-.170430
1.4	.112880	-.123194 - 1	-.984948 - 3	.355733	1	-.175518 - 2	.236691 - 1	-.163877
1.6	.107590	-.166100 - 1	-.133608 - 2	.381250	1	-.221549 - 2	.296818 - 1	-.160115
1.8	.103845	-.215732 - 1	-.174619 - 2	.402354	1	-.273217 - 2	.363584 - 1	-.157950
2.0	.101074	-.272066 - 1	-.221627 - 2	.419966	1	-.330613 - 2	.436952 - 1	-.156737
2.2	.989470 - 1	-.335072 - 1	-.274724 - 2	.434804	1	-.393832 - 2	.516894 - 1	-.156111
2.4	.972670 - 1	-.404722 - 1	-.334004 - 2	.447419	1	-.462971 - 2	.603386 - 1	-.155852
2.6	.959068 - 1	-.480987 - 1	-.399560 - 2	.458241	1	-.538129 - 2	.696404 - 1	-.155828
2.8	.947824 - 1	-.563841 - 1	-.471487 - 2	.467600	1	-.619406 - 2	.795929 - 1	-.155954
3.0	.938364 - 1	-.653259 - 1	-.549878 - 2	.475757	1	-.706901 - 2	.901940 - 1	-.156175
3.2	.930280 - 1	-.749215 - 1	-.634830 - 2	.482917	1	-.800714 - 2	.101442	-.156456
3.4	.923279 - 1	-.851688 - 1	-.726438 - 2	.489243	1	-.900945 - 2	.113335	-.156772
3.6	.917145 - 1	-.960655 - 1	-.824798 - 2	.494867	1	-.100769 - 1	.125871	-.157108
3.8	.911715 - 1	-.107610	-.930007 - 2	.499893	1	-.112106 - 1	.139049	-.157453
4.0	.906864 - 1	-.119799	-.104216 - 1	.504410	1	-.124115 - 1	.152866	-.157800
4.2	.902495 - 1	-.132632	-.116136 - 1	.508487	1	-.136805 - 1	.167321	-.158143
4.4	.898531 - 1	-.146106	-.128770 - 1	.512184	1	-.150186 - 1	.182413	-.158480
4.6	.894911 - 1	-.160219	-.142127 - 1	.515549	1	-.164270 - 1	.198140	-.158809
4.8	.891586 - 1	-.174971	-.156218 - 1	.518625	1	-.179065 - 1	.214500	-.159127
5.0	.888516 - 1	-.190359	-.171053 - 1	.521446	1	-.194581 - 1	.231492	-.159435
5.2	.885668 - 1	-.206381	-.186640 - 1	.524041	1	-.210828 - 1	.249114	-.159732
5.4	.883014 - 1	-.223035	-.202989 - 1	.526436	1	-.227817 - 1	.267364	-.160018
5.6	.880532 - 1	-.240321	-.220111 - 1	.528652	1	-.245556 - 1	.286241	-.160293
5.8	.878202 - 1	-.258236	-.238016 - 1	.530709	1	-.264056 - 1	.305744	-.160557
6.0	.876007 - 1	-.276779	-.256711 - 1	.532622	1	-.283327 - 1	.325871	-.160811
6.2	.873933 - 1	-.295948	-.276209 - 1	.534406	1	-.303378 - 1	.346620	-.161055

Z = 44, A = 99

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.106282	2	-.442733	-.620182 - 1	-.269735	-.227106	.174209 1
.6	.763743	1	-.702163	-.986714 - 1	-.130843	-.284409	.217426 1
.8	.629228	1	-.999947	-.141088	-.680938 - 1	-.338522	.257671 1
1.0	.556357	1	-.132273	1	-.187513	-.314384 - 1	-.391546 .296530 1
1.2	.511875	1	-.166097	1	-.236687	-.710286 - 2	-.444193 .334535 1
1.4	.482314	1	-.200841	1	-.287784	.103426 - 1	-.496776 .371926 1
1.6	.461373	1	-.236110	1	-.340282	.235067 - 1	-.549472 .408840 1
1.8	.445781	1	-.271656	1	-.393851	.338129 - 1	-.602388 .445364 1
2.0	.433702	1	-.307325	1	-.448282	.421090 - 1	-.655596 .481559 1
2.2	.424038	1	-.343018	1	-.503441	.489344 - 1	-.709145 .517467 1
2.4	.416097	1	-.378671	1	-.559242	.546495 - 1	-.763068 .553118 1
2.6	.409429	1	-.414244	1	-.615628	.595048 - 1	-.817391 .588537 1
2.8	.403723	1	-.449711	1	-.672559	.636805 - 1	-.872131 .623740 1
3.0	.398765	1	-.485055	1	-.730012	.673090 - 1	-.927303 .658743 1
3.2	.394399	1	-.520265	1	-.787966	.704905 - 1	-.982914 .693556 1
3.4	.390511	1	-.555335	1	-.846412	.733019 - 1	-.103897 1 .728190 1
3.6	.387013	1	-.590261	1	-.905339	.758032 - 1	-.109549 1 .762650 1
3.8	.383841	1	-.625042	1	-.964743	.780421 - 1	-.115246 1 .796945 1
4.0	.380942	1	-.659676	1	-.102462	1 .800571 - 1	-.120990 1 .831079 1
4.2	.378275	1	-.694164	1	-.108496	1 .818791 - 1	-.126780 1 .865058 1
4.4	.375808	1	-.728506	1	-.114577	1 .835339 - 1	-.132616 1 .898886 1
4.6	.373514	1	-.762704	1	-.120705	1 .850426 - 1	-.138500 1 .932566 1
4.8	.371372	1	-.796760	1	-.126879	1 .864229 - 1	-.144430 1 .966103 1
5.0	.369362	1	-.830674	1	-.133100	1 .876899 - 1	-.150407 1 .999499 1
5.2	.367471	1	-.864449	1	-.139366	1 .888561 - 1	-.156432 1 .103276 2
5.4	.365686	1	-.898085	1	-.145679	1 .899325 - 1	-.162503 1 .106588 2
5.6	.363995	1	-.931586	1	-.152038	1 .909284 - 1	-.168621 1 .109887 2
5.8	.362389	1	-.964952	1	-.158443	1 .918517 - 1	-.174787 1 .113173 2
6.0	.360860	1	-.998186	1	-.164894	1 .927095 - 1	-.180999 1 .116446 2
6.2	.359402	1	-.103129	2	-.171390	1 .935080 - 1	-.187258 1 .119706 2

Z = 44, A = 99

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.379108	-.817270 - 3	-.651856 - 4	.107560	1	-.289320 - 3	.391164 - 2	-.384767
.6	.217106	-.188642 - 2	-.150953 - 3	.177686	1	-.485146 - 3	.653617 - 2	-.256573
.8	.163766	-.355719 - 2	-.285842 - 3	.234267	1	-.736695 - 3	.988063 - 2	-.208332
1.0	.139151	-.587919 - 2	-.474728 - 3	.280395	1	-.104416 - 2	.139313 - 1	-.185473
1.2	.125558	-.887484 - 2	-.720461 - 3	.317959	1	-.140782 - 2	.186756 - 1	-.173420
1.4	.117157	-.125524 - 1	-.102483 - 2	.348614	1	-.182823 - 2	.241043 - 1	-.166691
1.6	.111545	-.169136 - 1	-.138914 - 2	.373773	1	-.230612 - 2	.302110 - 1	-.162829
1.8	.107572	-.219570 - 1	-.181444 - 2	.394587	1	-.284231 - 2	.369909 - 1	-.160606
2.0	.104631	-.276799 - 1	-.230171 - 2	.411964	1	-.343775 - 2	.444404 - 1	-.159361
2.2	.102374	-.340796 - 1	-.285191 - 2	.426607	1	-.409337 - 2	.525565 - 1	-.158717
2.4	.100590	-.411530 - 1	-.346596 - 2	.439059	1	-.481015 - 2	.613366 - 1	-.158451
2.6	.991455 - 1	-.488970 - 1	-.414479 - 2	.449743	1	-.558910 - 2	.707783 - 1	-.158425
2.8	.979507 - 1	-.573091 - 1	-.488936 - 2	.458985	1	-.643120 - 2	.808795 - 1	-.158553
3.0	.969448 - 1	-.663863 - 1	-.570060 - 2	.467041	1	-.733747 - 2	.916381 - 1	-.158779
3.2	.960848 - 1	-.761264 - 1	-.657949 - 2	.474113	1	-.830889 - 2	.103052	-.159066
3.4	.953397 - 1	-.865268 - 1	-.752698 - 2	.480363	1	-.934649 - 2	.115120	-.159389
3.6	.946865 - 1	-.975854 - 1	-.854403 - 2	.485919	1	-.104513 - 1	.127839	-.159733
3.8	.941080 - 1	-.109300	-.963163 - 2	.490885	1	-.116242 - 1	.141208	-.160086
4.0	.935909 - 1	-.121668	-.107907 - 1	.495348	1	-.128663 - 1	.155225	-.160441
4.2	.931249 - 1	-.134688	-.120223 - 1	.499378	1	-.141786 - 1	.169889	-.160793
4.4	.927019 - 1	-.148358	-.133274 - 1	.503031	1	-.155621 - 1	.185197	-.161138
4.6	.923155 - 1	-.162675	-.147069 - 1	.506358	1	-.170178 - 1	.201148	-.161474
4.8	.919604 - 1	-.177639	-.161618 - 1	.509398	1	-.185466 - 1	.217741	-.161800
5.0	.916325 - 1	-.193247	-.176931 - 1	.512186	1	-.201497 - 1	.234973	-.162116
5.2	.913281 - 1	-.209497	-.193018 - 1	.514751	1	-.218278 - 1	.252842	-.162420
5.4	.910443 - 1	-.226387	-.209889 - 1	.517119	1	-.235822 - 1	.271349	-.162713
5.6	.907788 - 1	-.243917	-.227553 - 1	.519310	1	-.254137 - 1	.290489	-.162994
5.8	.905295 - 1	-.262084	-.246019 - 1	.521344	1	-.273233 - 1	.310263	-.163265
6.0	.902946 - 1	-.280886	-.265299 - 1	.523235	1	-.293120 - 1	.330669	-.163525
6.2	.900726 - 1	-.300322	-.285401 - 1	.524999	1	-.313809 - 1	.351705	-.163774

Z = 45, A = 103

P	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.111733	2	-.457795		-.655775	- 1	-.274478		-.237835		.178292	1	-.224253	1
.6	.801577	1	-.722637		-.103841		-.131446		-.297592		.222337	1	-.257808	1
.8	.659195	1	-.102615	1	-.148049		-.671011	- 1	-.353880		.263254	1	-.299310	1
1.0	.581925	1	-.135483	1	-.196386		-.295692	- 1	-.408969		.302716	1	-.337997	1
1.2	.534691	1	-.169901	1	-.247548		-.466606	- 2	-.463632		.341288	1	-.372363	1
1.4	.503263	1	-.205236	1	-.300679		.131823	- 1	-.518209		.379226	1	-.402556	1
1.6	.480972	1	-.241090	1	-.355239		.266495	- 1	-.572885		.416672	1	-.429079	1
1.8	.464357	1	-.277212	1	-.410886		.371928	- 1	-.627774		.453716	1	-.452465	1
2.0	.451469	1	-.313445	1	-.467404		.456798	- 1	-.682951		.490418	1	-.473191	1
2.2	.441147	1	-.349691	1	-.524657		.526623	- 1	-.738467		.526822	1	-.491662	1
2.4	.432658	1	-.385885	1	-.582554		.585089	- 1	-.794356		.562960	1	-.508217	1
2.6	.425522	1	-.421987	1	-.641037		.634760	- 1	-.850644		.598855	1	-.523132	1
2.8	.419411	1	-.457972	1	-.700066		.677475	- 1	-.907351		.634525	1	-.536639	1
3.0	.414096	1	-.493823	1	-.759616		.714593	- 1	-.964488		.669985	1	-.548928	1
3.2	.409413	1	-.529529	1	-.819669		.747136	- 1	-.102207	1	.705246	1	-.560159	1
3.4	.405239	1	-.565085	1	-.880212		.775890	- 1	-.108010	1	.740318	1	-.570466	1
3.6	.401483	1	-.600486	1	-.941236		.801471	- 1	-.113858	1	.775209	1	-.579961	1
3.8	.398074	1	-.635732	1	-.100274	1	.824367	- 1	-.119753	1	.809925	1	-.588739	1
4.0	.394957	1	-.670821	1	-.106471	1	.844969	- 1	-.125693	1	.844473	1	-.596883	1
4.2	.392089	1	-.705755	1	-.112715	1	.863597	- 1	-.131681	1	.878857	1	-.604463	1
4.4	.389434	1	-.740534	1	-.119006	1	.880511	- 1	-.137715	1	.913082	1	-.611537	1
4.6	.386966	1	-.775160	1	-.125343	1	.895929	- 1	-.143797	1	.947152	1	-.618160	1
4.8	.384659	1	-.809634	1	-.131727	1	.910033	- 1	-.149925	1	.981070	1	-.624376	1
5.0	.382495	1	-.843959	1	-.138157	1	.922975	- 1	-.156101	1	.101484	2	-.630224	1
5.2	.380458	1	-.878136	1	-.144634	1	.934886	- 1	-.162324	1	.104846	2	-.635741	1
5.4	.378535	1	-.912166	1	-.151157	1	.945876	- 1	-.168594	1	.108195	2	-.640956	1
5.6	.376712	1	-.946053	1	-.157726	1	.956041	- 1	-.174912	1	.111529	2	-.645897	1
5.8	.374982	1	-.979798	1	-.164341	1	.965463	- 1	-.181276	1	.114849	2	-.650587	1
6.0	.373334	1	-.101340	2	-.171002	1	.974213	- 1	-.187688	1	.118156	2	-.655049	1
6.2	.371762	1	-.104687	2	-.177709	1	.982355	- 1	-.194148	1	.121449	2	-.659301	1

Z = 45, A = 103

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.401349	-.854697 - 3	-.696864 - 4	.104085	1	-.308426 - 3	.407652 - 2	-.394631
.6	.227879	-.196110 - 2	-.160414 - 3	.173332	1	-.514952 - 3	.678251 - 2	-.261916
.8	.171031	-.368633 - 2	-.302786 - 3	.229100	1	-.779965 - 3	.102273 - 1	-.212232
1.0	.144869	-.608105 - 2	-.501895 - 3	.274559	1	-.110370 - 2	.143974 - 1	-.188738
1.2	.130443	-.916817 - 2	-.760712 - 3	.311589	1	-.148646 - 2	.192801 - 1	-.176361
1.4	.121536	-.129561 - 1	-.108110 - 2	.341820	1	-.192881 - 2	.248660 - 1	-.169455
1.6	.115587	-.174464 - 1	-.146441 - 2	.366640	1	-.243150 - 2	.311484 - 1	-.165492
1.8	.111376	-.226375 - 1	-.191173 - 2	.387182	1	-.299539 - 2	.381223 - 1	-.163211
2.0	.108259	-.285268 - 1	-.242407 - 2	.404336	1	-.362145 - 2	.457839 - 1	-.161933
2.2	.105866	-.351112 - 1	-.300241 - 2	.418794	1	-.431064 - 2	.541301 - 1	-.161272
2.4	.103974	-.423873 - 1	-.364771 - 2	.431094	1	-.506398 - 2	.631580 - 1	-.160998
2.6	.102441	-.503522 - 1	-.436094 - 2	.441648	1	-.588249 - 2	.728652 - 1	-.160971
2.8	.101173	-.590028 - 1	-.514306 - 2	.450780	1	-.676720 - 2	.832493 - 1	-.161101
3.0	.100104	-.683364 - 1	-.599506 - 2	.458741	1	-.771915 - 2	.943082 - 1	-.161331
3.2	.991903 - 1	-.783502 - 1	-.691792 - 2	.465731	1	-.873937 - 2	.106040	-.161624
3.4	.983981 - 1	-.890418 - 1	-.791264 - 2	.471908	1	-.982890 - 2	.118442	-.161955
3.6	.977033 - 1	-.100409	-.898022 - 2	.477401	1	-.109888 - 1	.131512	-.162307
3.8	.970876 - 1	-.112449	-.101216 - 1	.482311	1	-.122200 - 1	.145250	-.162668
4.0	.965370 - 1	-.125159	-.113379 - 1	.486724	1	-.135237 - 1	.159652	-.163031
4.2	.960405 - 1	-.138538	-.126301 - 1	.490708	1	-.149009 - 1	.174716	-.163391
4.4	.955898 - 1	-.152584	-.139991 - 1	.494321	1	-.163525 - 1	.190442	-.163744
4.6	.951778 - 1	-.167294	-.154460 - 1	.497611	1	-.178796 - 1	.206827	-.164088
4.8	.947990 - 1	-.182666	-.169718 - 1	.500618	1	-.194833 - 1	.223870	-.164422
5.0	.944490 - 1	-.198699	-.185775 - 1	.503376	1	-.211645 - 1	.241568	-.164745
5.2	.941241 - 1	-.215391	-.202641 - 1	.505913	1	-.229244 - 1	.259920	-.165056
5.4	.938211 - 1	-.232739	-.220327 - 1	.508255	1	-.247639 - 1	.278924	-.165356
5.6	.935375 - 1	-.250742	-.238841 - 1	.510423	1	-.266840 - 1	.298579	-.165644
5.8	.932711 - 1	-.269398	-.258195 - 1	.512435	1	-.286858 - 1	.318882	-.165921
6.0	.930200 - 1	-.288705	-.278399 - 1	.514306	1	-.307703 - 1	.339833	-.166186
6.2	.927826 - 1	-.308662	-.299461 - 1	.516051	1	-.329384 - 1	.361429	-.166442

Z = 46, A = 106

P	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁	
.4	.117518	2	-.473497		-.693112	- 1	-.279152		-.248999	.182507	1
.6	.841757	1	-.743960		-.109241		-.131923		-.311307	.227418	1
.8	.691021	1	-.105342	1	-.155298		-.659732	- 1	-.369850	.269036	1
1.0	.609071	1	-.138821	1	-.205604		-.275621	- 1	-.427073	.309126	1
1.2	.558904	1	-.173856	1	-.258809		-.209016	- 2	-.483813	.348290	1
1.4	.525482	1	-.209805	1	-.314028		.161619	- 1	-.540438	.386797	1
1.6	.501749	1	-.246265	1	-.370699		.299328	- 1	-.597145	.424795	1
1.8	.484037	1	-.282984	1	-.428472		.407137	- 1	-.654055	.462378	1
2.0	.470285	1	-.319802	1	-.487122		.493921	- 1	-.711245	.499607	1
2.2	.459258	1	-.356621	1	-.546509		.565321	- 1	-.768768	.536527	1
2.4	.450180	1	-.393376	1	-.606540		.625107	- 1	-.826660	.573169	1
2.6	.442542	1	-.430028	1	-.667155		.675898	- 1	-.884949	.609558	1
2.8	.435996	1	-.466550	1	-.728314		.719577	- 1	-.943652	.645713	1
3.0	.430298	1	-.502927	1	-.789991		.757530	- 1	-.100278	.681647	1
3.2	.425274	1	-.539148	1	-.852167		.790804	- 1	-.106236	.717374	1
3.4	.420794	1	-.575207	1	-.914830		.820202	- 1	-.112238	.752902	1
3.6	.416759	1	-.611101	1	-.977972		.846354	- 1	-.118285	.788240	1
3.8	.413095	1	-.646830	1	-.104159	1	.869758	- 1	-.124379	.823395	1
4.0	.409744	1	-.682392	1	-.110567	1	.890815	- 1	-.130519	.858373	1
4.2	.406660	1	-.717789	1	-.117022	1	.909852	- 1	-.136705	.893179	1
4.4	.403804	1	-.753022	1	-.123524	1	.927135	- 1	-.142938	.927817	1
4.6	.401147	1	-.788092	1	-.130071	1	.942886	- 1	-.149218	.962293	1
4.8	.398663	1	-.823003	1	-.136665	1	.957293	- 1	-.155546	.996609	1
5.0	.396334	1	-.857754	1	-.143306	1	.970510	- 1	-.161920	.103077	2
5.2	.394140	1	-.892350	1	-.149992	1	.982671	- 1	-.168342	.106478	2
5.4	.392067	1	-.926792	1	-.156724	1	.993889	- 1	-.174811	.109863	2
5.6	.390104	1	-.961081	1	-.163503	1	.100426		-.181327	.113235	2
5.8	.388239	1	-.995220	1	-.170327	1	.101387		-.187891	.116591	2
6.0	.386464	1	-.102921	2	-.177198	1	.102280		-.194502	.119933	2
6.2	.384769	1	-.106306	2	-.184114	1	.103110		-.201160	.123261	2

Z = 46, A = 106

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.424942	-.890698 - 3	-.741829 - 4	.100730 1	-.327456 - 3	.423319 - 2	-.404595
.6	.239249	-.203169 - 2	-.169755 - 3	.169153 1	-.544401 - 3	.701353 - 2	-.267244
.8	.178676	-.380699 - 2	-.319394 - 3	.224151 1	-.822483 - 3	.105495 - 1	-.216095
1.0	.150873	-.626822 - 2	-.528395 - 3	.268976 1	-.116198 - 2	.148278 - 1	-.191957
1.2	.135566	-.943866 - 2	-.799840 - 3	.305501 1	-.156321 - 2	.198356 - 1	-.179254
1.4	.126122	-.133268 - 1	-.113566 - 2	.335330 1	-.202674 - 2	.255634 - 1	-.172169
1.6	.119818	-.179341 - 1	-.153723 - 2	.359830 1	-.255336 - 2	.320043 - 1	-.168105
1.8	.115356	-.232590 - 1	-.200568 - 2	.380114 1	-.314393 - 2	.391531 - 1	-.165766
2.0	.112052	-.292986 - 1	-.254205 - 2	.397057 1	-.379944 - 2	.470057 - 1	-.164454
2.2	.109515	-.360496 - 1	-.314733 - 2	.411343 1	-.452088 - 2	.555589 - 1	-.163775
2.4	.107509	-.435086 - 1	-.382250 - 2	.423498 1	-.530929 - 2	.648097 - 1	-.163493
2.6	.105882	-.516724 - 1	-.456856 - 2	.433930 1	-.616572 - 2	.747555 - 1	-.163464
2.8	.104536	-.605378 - 1	-.538649 - 2	.442958 1	-.709122 - 2	.853937 - 1	-.163597
3.0	.103402	-.701019 - 1	-.627730 - 2	.450830 1	-.808686 - 2	.967221 - 1	-.163832
3.2	.102431	-.803618 - 1	-.724200 - 2	.457742 1	-.915368 - 2	.108738	-.164131
3.4	.101589	-.913149 - 1	-.828160 - 2	.463852 1	-.102928 - 1	.121440	-.164469
3.6	.100850	-.102959	-.939713 - 2	.469285 1	-.115052 - 1	.134826	-.164829
3.8	.100194	-.115290	-.105896 - 1	.474143 1	-.127919 - 1	.148893	-.165198
4.0	.996083 - 1	-.128308	-.118601 - 1	.478509 1	-.141542 - 1	.163639	-.165569
4.2	.990796 - 1	-.142009	-.132095 - 1	.482451 1	-.155929 - 1	.179063	-.165937
4.4	.985993 - 1	-.156391	-.146390 - 1	.486026 1	-.171092 - 1	.195163	-.166298
4.6	.981601 - 1	-.171452	-.161496 - 1	.489282 1	-.187041 - 1	.211936	-.166650
4.8	.977563 - 1	-.187191	-.177423 - 1	.492258 1	-.203786 - 1	.229381	-.166992
5.0	.973829 - 1	-.203604	-.194181 - 1	.494987 1	-.221339 - 1	.247495	-.167322
5.2	.970362 - 1	-.220690	-.211781 - 1	.497499 1	-.239710 - 1	.266278	-.167640
5.4	.967127 - 1	-.238447	-.230234 - 1	.499817 1	-.258909 - 1	.285726	-.167947
5.6	.964098 - 1	-.256873	-.249548 - 1	.501962 1	-.278946 - 1	.305839	-.168241
5.8	.961253 - 1	-.275965	-.269735 - 1	.503954 1	-.299833 - 1	.326615	-.168525
6.0	.958570 - 1	-.295724	-.290806 - 1	.505806 1	-.321580 - 1	.348051	-.168797
6.2	.956033 - 1	-.316145	-.312770 - 1	.507534 1	-.344196 - 1	.370146	-.169058

Z = 47, A = 109

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁	
.4	.123619	2	-.489777		-.732315	- 1	-.283754		-.260571	.186825	1
.6	.884139	1	-.766028		-.114890		-.132273		-.325524	.232628	1
.8	.724583	1	-.108159	1	-.162859		-.647083	- 1	-.386399	.274969	1
1.0	.637679	1	-.142267	1	-.215199		-.254153	- 1	-.445822	.315705	1
1.2	.584404	1	-.177934	1	-.270513		.626682	- 3	-.504701	.355475	1
1.4	.548865	1	-.214512	1	-.327883		.192832	- 1	-.563432	.394565	1
1.6	.523598	1	-.251593	1	-.386731		.333584	- 1	-.622227	.433128	1
1.8	.504720	1	-.288922	1	-.446691		.443774	- 1	-.681211	.471261	1
2.0	.490045	1	-.326338	1	-.507534		.532476	- 1	-.740467	.509027	1
2.2	.478267	1	-.363742	1	-.569114		.605456	- 1	-.800049	.546472	1
2.4	.468561	1	-.401070	1	-.631337		.666564	- 1	-.859995	.583628	1
2.6	.460386	1	-.438281	1	-.694141		.718480	- 1	-.920332	.620520	1
2.8	.453375	1	-.475351	1	-.757485		.763124	- 1	-.981081	.657167	1
3.0	.447268	1	-.512263	1	-.821343		.801914	- 1	-.104226	.693584	1
3.2	.441880	1	-.549007	1	-.885695		.835920	- 1	-.110387	.729782	1
3.4	.437071	1	-.585579	1	-.950530		.865964	- 1	-.116593	.765773	1
3.6	.432739	1	-.621974	1	-.101584	1	.892687	- 1	-.122844	.801565	1
3.8	.428803	1	-.658193	1	-.108162	1	.916600	- 1	-.129140	.837164	1
4.0	.425201	1	-.694235	1	-.114786	1	.938112	- 1	-.135483	.872577	1
4.2	.421884	1	-.730102	1	-.121457	1	.957558	- 1	-.141873	.907809	1
4.4	.418813	1	-.765795	1	-.128173	1	.975209	- 1	-.148309	.942866	1
4.6	.415954	1	-.801316	1	-.134936	1	.991294	- 1	-.154792	.977752	1
4.8	.413282	1	-.836667	1	-.141745	1	.100600		-.161322	.101247	2
5.0	.410774	1	-.871852	1	-.148599	1	.101949		-.167899	.104702	2
5.2	.408413	1	-.906871	1	-.155500	1	.103190		-.174523	.108142	2
5.4	.406181	1	-.941728	1	-.162446	1	.104335		-.181194	.111565	2
5.6	.404067	1	-.976424	1	-.169438	1	.105393		-.187913	.114974	2
5.8	.402058	1	-.101096	2	-.176476	1	.106373		-.194679	.118367	2
6.0	.400146	1	-.104534	2	-.183559	1	.107282		-.201492	.121744	2
6.2	.398321	1	-.107957	2	-.190688	1	.108128		-.208352	.125108	2

Z = 47, A = 109

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.449895	-.927983 - 3	-.789149 - 4	.974895	-.347391 - 3	.439453 - 2	-.414661
.6	.251208	-.210441 - 2	-.179526 - 3	.165138	1 -.575134 - 3	.725074 - 2	-.272556
.8	.186689	-.393091 - 2	-.336705 - 3	.219408	1 -.866739 - 3	.108795 - 1	-.219919
1.0	.157153	-.646004 - 2	-.555954 - 3	.263631	1 -.122253 - 2	.152680 - 1	-.195130
1.2	.140915	-.971545 - 2	-.840468 - 3	.299676	1 -.164285 - 2	.204033 - 1	-.182098
1.4	.130906	-.137057 - 1	-.119224 - 2	.329125	1 -.212828 - 2	.262755 - 1	-.174833
1.6	.124226	-.184323 - 1	-.161269 - 2	.353323	1 -.267960 - 2	.328776 - 1	-.170667
1.8	.119499	-.238934 - 1	-.210297 - 2	.373362	1 -.329772 - 2	.402042 - 1	-.168268
2.0	.115998	-.300859 - 1	-.266415 - 2	.390107	1 -.398363 - 2	.482511 - 1	-.166924
2.2	.113310	-.370065 - 1	-.329723 - 2	.404230	1 -.473835 - 2	.570148 - 1	-.166227
2.4	.111183	-.446515 - 1	-.400323 - 2	.416248	1 -.556295 - 2	.664921 - 1	-.165937
2.6	.109458	-.530175 - 1	-.478315 - 2	.426566	1 -.645848 - 2	.766802 - 1	-.165906
2.8	.108029	-.621012 - 1	-.563800 - 2	.435496	1 -.742604 - 2	.875766 - 1	-.166040
3.0	.106825	-.718995 - 1	-.656882 - 2	.443284	1 -.846671 - 2	.991786 - 1	-.166280
3.2	.105794	-.824094 - 1	-.757664 - 2	.450124	1 -.958156 - 2	.111484	-.166586
3.4	.104899	-.936281 - 1	-.866248 - 2	.456171	1 -.107717 - 1	.124490	-.166931
3.6	.104114	-.105553	-.982741 - 2	.461548	1 -.120382 - 1	.138195	-.167298
3.8	.103417	-.118181	-.110725 - 1	.466356	1 -.133822 - 1	.152597	-.167676
4.0	.102793	-.131510	-.123987 - 1	.470678	1 -.148047 - 1	.167693	-.168055
4.2	.102230	-.145538	-.138071 - 1	.474581	1 -.163068 - 1	.183481	-.168431
4.4	.101719	-.160261	-.152989 - 1	.478121	1 -.178896 - 1	.199960	-.168800
4.6	.101251	-.175679	-.168750 - 1	.481344	1 -.195542 - 1	.217126	-.169160
4.8	.100820	-.191788	-.185365 - 1	.484291	1 -.213017 - 1	.234979	-.169509
5.0	.100422	-.208587	-.202844 - 1	.486994	1 -.231332 - 1	.253516	-.169847
5.2	.100052	-.226073	-.221199 - 1	.489481	1 -.250497 - 1	.272735	-.170172
5.4	.997071 - 1	-.244245	-.240440 - 1	.491777	1 -.270522 - 1	.292634	-.170485
5.6	.993839 - 1	-.263099	-.260577 - 1	.493902	1 -.291420 - 1	.313211	-.170787
5.8	.990801 - 1	-.282635	-.281621 - 1	.495874	1 -.313200 - 1	.334465	-.171076
6.0	.987936 - 1	-.302850	-.303582 - 1	.497709	1 -.335873 - 1	.356394	-.171354
6.2	.985226 - 1	-.323742	-.326471 - 1	.499420	1 -.359450 - 1	.378995	-.171621

Z = 48, A = 111

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁	
.4	.130103	2	-.506762		-.773472 - 1	-.288283	-.272620		.191289	1	-.213254 1
.6	.929212	1	-.789029		-.120796	-.132493	-.340327		.238022	1	-.238772 1
.8	.760275	1	-.111094	1	-.170742	-.633042 - 1	-.403621		.281118	1	-.274467 1
1.0	.668093	1	-.145854	1	-.225181	-.231265 - 1	-.465320		.322528	1	-.308248 1
1.2	.611499	1	-.182177	1	-.282666	.348675 - 2	-.526405		.362931	1	-.338332 1
1.4	.573697	1	-.219408	1	-.342248	.225487 - 1	-.587305		.402626	1	-.364743 1
1.6	.546789	1	-.257133	1	-.403328	.369289 - 1	-.648244		.441777	1	-.387901 1
1.8	.526661	1	-.295095	1	-.465530	.481867 - 1	-.709357		.480481	1	-.408277 1
2.0	.510998	1	-.333132	1	-.528617	.572493 - 1	-.770728		.518805	1	-.426296 1
2.2	.498413	1	-.371143	1	-.592439	.647058 - 1	-.832415		.556796	1	-.442323 1
2.4	.488032	1	-.409065	1	-.656898	.709494 - 1	-.894457		.594485	1	-.456660 1
2.6	.479282	1	-.446857	1	-.721932	.762538 - 1	-.956883		.631900	1	-.469554 1
2.8	.471771	1	-.484495	1	-.787499	.808152 - 1	-.101971	1	.669058	1	-.481214 1
3.0	.465224	1	-.521962	1	-.853572	.847784 - 1	-.108297	1	.705976	1	-.491808 1
3.2	.459443	1	-.559250	1	-.920133	.882526 - 1	-.114665	1	.742665	1	-.501478 1
3.4	.454282	1	-.596353	1	-.987168	.913217 - 1	-.121077	1	.779137	1	-.510343 1
3.6	.449629	1	-.633269	1	-.105467	.940515 - 1	-.127534	1	.815400	1	-.518502 1
3.8	.445400	1	-.669997	1	-.112264	.964940 - 1	-.134037	1	.851461	1	-.526040 1
4.0	.441529	1	-.706538	1	-.119106	.986911 - 1	-.140585	1	.887327	1	-.533028 1
4.2	.437963	1	-.742893	1	-.125994	.100677	-.147179	1	.923004	1	-.539529 1
4.4	.434659	1	-.779065	1	-.132928	.102479	-.153820	1	.958497	1	-.545594 1
4.6	.431583	1	-.815055	1	-.139907	.104121	-.160507	1	.993810	1	-.551270 1
4.8	.428708	1	-.850866	1	-.146931	.105622	-.167241	1	.102895	2	-.556596 1
5.0	.426008	1	-.886500	1	-.154001	.106999	-.174021	1	.106391	2	-.561607 1
5.2	.423466	1	-.921961	1	-.161116	.108265	-.180849	1	.109871	2	-.566333 1
5.4	.421063	1	-.957251	1	-.168276	.109432	-.187723	1	.113334	2	-.570800 1
5.6	.418787	1	-.992371	1	-.175482	.110511	-.194645	1	.116781	2	-.575034 1
5.8	.416624	1	-.102733	2	-.182733	.111510	-.201613	1	.120212	2	-.579054 1
6.0	.414564	1	-.106212	2	-.190029	.112437	-.208628	1	.123628	2	-.582879 1
6.2	.412597	1	-.109674	2	-.197370	.113299	-.215690	1	.127028	2	-.586525 1

Z = 48, A = 111

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.476375	-.963813 - 3	-.836334 - 4	.943543	-.367203 - 3	.454755 - 2	-.424833
.6	.263836	-.217305 - 2	-.189153 - 3	.161278	1 -.605435 - 3	.747275 - 2	-.277854
.8	.195126	-.404648 - 2	-.353639 - 3	.214856	1 -.910137 - 3	.111855 - 1	-.223705
1.0	.163751	-.663746 - 2	-.582780 - 3	.258510	1 -.128168 - 2	.156733 - 1	-.198258
1.2	.146528	-.996996 - 2	-.879874 - 3	.294100	1 -.172042 - 2	.209231 - 1	-.184893
1.4	.135920	-.140526 - 1	-.124697 - 2	.323188	1 -.222693 - 2	.269251 - 1	-.177447
1.6	.128843	-.188867 - 1	-.168551 - 2	.347099	1 -.280202 - 2	.336718 - 1	-.173177
1.8	.123836	-.244704 - 1	-.219669 - 2	.366908	1 -.344660 - 2	.411578 - 1	-.170719
2.0	.120127	-.308005 - 1	-.278157 - 2	.383466	1 -.416167 - 2	.493786 - 1	-.169341
2.2	.117278	-.378732 - 1	-.344118 - 2	.397434	1 -.494827 - 2	.583305 - 1	-.168626
2.4	.115024	-.456850 - 1	-.417654 - 2	.409325	1 -.580748 - 2	.680103 - 1	-.168328
2.6	.113194	-.542321 - 1	-.498868 - 2	.419534	1 -.674038 - 2	.784150 - 1	-.168295
2.8	.111679	-.635112 - 1	-.587863 - 2	.428373	1 -.774807 - 2	.895417 - 1	-.168431
3.0	.110401	-.735189 - 1	-.684742 - 2	.436082	1 -.883166 - 2	.101388	-.168676
3.2	.109306	-.842521 - 1	-.789610 - 2	.442854	1 -.999224 - 2	.113951	-.168988
3.4	.108355	-.957078 - 1	-.902574 - 2	.448841	1 -.112309 - 1	.127228	-.169340
3.6	.107520	-.107883	-.102374 - 1	.454166	1 -.125488 - 1	.141218	-.169715
3.8	.106779	-.120776	-.115321 - 1	.458928	1 -.139470 - 1	.155917	-.170101
4.0	.106115	-.134382	-.129109 - 1	.463208	1 -.154266 - 1	.171324	-.170488
4.2	.105516	-.148701	-.143750 - 1	.467074	1 -.169887 - 1	.187436	-.170873
4.4	.104972	-.163728	-.159254 - 1	.470581	1 -.186345 - 1	.204251	-.171250
4.6	.104473	-.179463	-.175631 - 1	.473775	1 -.203650 - 1	.221767	-.171617
4.8	.104014	-.195902	-.192892 - 1	.476694	1 -.221813 - 1	.239981	-.171974
5.0	.103590	-.213043	-.211049 - 1	.479372	1 -.240845 - 1	.258893	-.172319
5.2	.103196	-.230884	-.230112 - 1	.481836	1 -.260758 - 1	.278499	-.172651
5.4	.102827	-.249423	-.250091 - 1	.484111	1 -.281561 - 1	.298797	-.172971
5.6	.102483	-.268658	-.270998 - 1	.486217	1 -.303267 - 1	.319786	-.173279
5.8	.102158	-.288586	-.292843 - 1	.488172	1 -.325886 - 1	.341463	-.173575
6.0	.101852	-.309205	-.315636 - 1	.489990	1 -.349428 - 1	.363827	-.173860
6.2	.101563	-.330514	-.339389 - 1	.491686	1 -.373905 - 1	.386876	-.174133

Z = 49, A = 113

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.136951	2	-.524385		-.816704	- 1	-.292737		-.285115		.195865	1	-.209904	1
.6	.976820	1	-.812852		-.126978		-.132582		-.355680		.243559	1	-.232914	1
.8	.797963	1	-.114129	1	-.178971		-.617593	- 1	-.421478		.287434	1	-.266842	1
1.0	.700188	1	-.149558	1	-.235580		-.206940	- 1	-.485526		.329537	1	-.299143	1
1.2	.640071	1	-.186556	1	-.295307		.649201	- 2	-.548885		.370588	1	-.327941	1
1.4	.599864	1	-.224456	1	-.357172		.259603	- 1	-.612017		.410905	1	-.353221	1
1.6	.571209	1	-.262841	1	-.420554		.406462	- 1	-.675162		.450655	1	-.375376	1
1.8	.549749	1	-.301450	1	-.485066		.521435	- 1	-.738461		.489944	1	-.394856	1
2.0	.533031	1	-.340121	1	-.550463		.613991	- 1	-.802005		.528837	1	-.412072	1
2.2	.519585	1	-.378753	1	-.616590		.690145	- 1	-.865853		.567384	1	-.427375	1
2.4	.508484	1	-.417281	1	-.683349		.753914	- 1	-.930046		.605617	1	-.441056	1
2.6	.499118	1	-.455666	1	-.750674		.808089	- 1	-.994615		.643563	1	-.453354	1
2.8	.491073	1	-.493883	1	-.818524		.854675	- 1	-.105958	1	.681241	1	-.464469	1
3.0	.484055	1	-.531917	1	-.886871		.895151	- 1	-.112496	1	.718668	1	-.474564	1
3.2	.477854	1	-.569758	1	-.955697		.930632	- 1	-.119076	1	.755856	1	-.483776	1
3.4	.472315	1	-.607402	1	-.102499	1	.961973	- 1	-.125700	1	.792816	1	-.492217	1
3.6	.467319	1	-.644847	1	-.109474	1	.989847	- 1	-.132368	1	.829557	1	-.499985	1
3.8	.462777	1	-.682092	1	-.116495	1	.101479		-.139081	1	.866087	1	-.507159	1
4.0	.458617	1	-.719140	1	-.123560	1	.103721		-.145839	1	.902412	1	-.513809	1
4.2	.454783	1	-.755991	1	-.130671	1	.105748		-.152642	1	.938539	1	-.519994	1
4.4	.451230	1	-.792648	1	-.137826	1	.107588		-.159492	1	.974473	1	-.525764	1
4.6	.447923	1	-.829114	1	-.145026	1	.109263		-.166388	1	.101022	2	-.531162	1
4.8	.444829	1	-.865390	1	-.152271	1	.110795		-.173329	1	.104578	2	-.536228	1
5.0	.441925	1	-.901481	1	-.159561	1	.112199		-.180318	1	.108116	2	-.540994	1
5.2	.439188	1	-.937389	1	-.166895	1	.113490		-.187353	1	.111637	2	-.545489	1
5.4	.436603	1	-.973116	1	-.174274	1	.114680		-.194434	1	.115140	2	-.549739	1
5.6	.434152	1	-.100867	2	-.181698	1	.115780		-.201562	1	.118626	2	-.553766	1
5.8	.431823	1	-.104404	2	-.189166	1	.116798		-.208736	1	.122095	2	-.557590	1
6.0	.429605	1	-.107924	2	-.196679	1	.117742		-.215957	1	.125548	2	-.561229	1
6.2	.427488	1	-.111428	2	-.204237	1	.118619		-.223225	1	.128985	2	-.564698	1

Z = 49, A = 113

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.504389	-.100094 - 2	-.885917 - 4	.913183	-.387925 - 3	.470524 - 2	-.435116
.6	.277127	-.224385 - 2	-.199214 - 3	.157562	1 -.637019 - 3	.770102 - 2	-.283136
.8	.203974	-.416538 - 2	-.371275 - 3	.210486	1 -.955265 - 3	.114995 - 1	-.227452
1.0	.170656	-.681969 - 2	-.610658 - 3	.253598	1 -.134309 - 2	.160888 - 1	-.201340
1.2	.152393	-.102310 - 1	-.920766 - 3	.288756	1 -.180085 - 2	.214557 - 1	-.187639
1.4	.141153	-.144081 - 1	-.130370 - 2	.317503	1 -.232914 - 2	.275901 - 1	-.180009
1.6	.133657	-.193521 - 1	-.176094 - 2	.341142	1 -.292876 - 2	.344845 - 1	-.175635
1.8	.128354	-.250610 - 1	-.229369 - 2	.360733	1 -.360064 - 2	.421331 - 1	-.173118
2.0	.124426	-.315315 - 1	-.290303 - 2	.377114	1 -.434579 - 2	.505313 - 1	-.171706
2.2	.121408	-.387596 - 1	-.359002 - 2	.390937	1 -.516528 - 2	.596752 - 1	-.170973
2.4	.119019	-.467415 - 1	-.435567 - 2	.402707	1 -.606018 - 2	.695614 - 1	-.170666
2.6	.117079	-.554734 - 1	-.520104 - 2	.412815	1 -.703160 - 2	.801867 - 1	-.170631
2.8	.115472	-.649517 - 1	-.612716 - 2	.421568	1 -.808066 - 2	.915482 - 1	-.170769
3.0	.114115	-.751728 - 1	-.713509 - 2	.429203	1 -.920847 - 2	.103643	-.171018
3.2	.112953	-.861336 - 1	-.822588 - 2	.435911	1 -.104162 - 1	.116469	-.171336
3.4	.111943	-.978310 - 1	-.940062 - 2	.441842	1 -.117048 - 1	.130022	-.171696
3.6	.111056	-.110262	-.106604 - 1	.447118	1 -.130756 - 1	.144302	-.172079
3.8	.110268	-.123423	-.120062 - 1	.451837	1 -.145297 - 1	.159304	-.172473
4.0	.109562	-.137312	-.134393 - 1	.456079	1 -.160681 - 1	.175027	-.172868
4.2	.108925	-.151927	-.149606 - 1	.459910	1 -.176920 - 1	.191469	-.173261
4.4	.108345	-.167264	-.165712 - 1	.463386	1 -.194025 - 1	.208626	-.173646
4.6	.107814	-.183321	-.182724 - 1	.466551	1 -.212008 - 1	.226498	-.174021
4.8	.107326	-.200095	-.200650 - 1	.469445	1 -.230879 - 1	.245080	-.174386
5.0	.106874	-.217585	-.219503 - 1	.472100	1 -.250649 - 1	.264373	-.174738
5.2	.106453	-.235788	-.239294 - 1	.474544	1 -.271330 - 1	.284372	-.175077
5.4	.106061	-.254701	-.260033 - 1	.476799	1 -.292934 - 1	.305076	-.175404
5.6	.105693	-.274322	-.281731 - 1	.478887	1 -.315470 - 1	.326483	-.175719
5.8	.105347	-.294649	-.304399 - 1	.480825	1 -.338950 - 1	.348591	-.176021
6.0	.105020	-.315680	-.328048 - 1	.482628	1 -.363386 - 1	.371398	-.176312
6.2	.104712	-.337413	-.352689 - 1	.484310	1 -.388788 - 1	.394901	-.176591

Z = 50, A = 117

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.144070	2	-.542444		-.862091	- 1	-.297114		-.297949		.200470	1	-.206693	1
.6	.102631	2	-.837172		-.133447		-.132537		-.371452		.249131	1	-.227273	1
.8	.837111	1	-.117218	1	-.187562		-.600717	- 1	-.439822		.293788	1	-.259513	1
1.0	.733489	1	-.153319	1	-.246419		-.181158	- 1	-.506282		.336584	1	-.290403	1
1.2	.669682	1	-.190991	1	-.308470		.964419	- 2	-.571976		.378280	1	-.317980	1
1.4	.626950	1	-.229559	1	-.372701		.295196	- 1	-.637400		.419211	1	-.342187	1
1.6	.596458	1	-.268601	1	-.438472		.445119	- 1	-.702812		.459555	1	-.363391	1
1.8	.573597	1	-.307853	1	-.505380		.562491	- 1	-.768361		.499417	1	-.382025	1
2.0	.555768	1	-.347153	1	-.573176		.656980	- 1	-.834142		.538870	1	-.398484	1
2.2	.541414	1	-.386398	1	-.641700		.734726	- 1	-.900217		.577960	1	-.413104	1
2.4	.529552	1	-.425524	1	-.710850		.799828	- 1	-.966630		.616724	1	-.426168	1
2.6	.519536	1	-.464492	1	-.780561		.855135	- 1	-.103341	1	.655187	1	-.437906	1
2.8	.510925	1	-.503277	1	-.850790		.902694	- 1	-.110058	1	.693370	1	-.448510	1
3.0	.503410	1	-.541865	1	-.921508		.944012	- 1	-.116817	1	.731290	1	-.458137	1
3.2	.496765	1	-.580246	1	-.992699		.980228	- 1	-.123617	1	.768959	1	-.466919	1
3.4	.490826	1	-.618417	1	-.106435	1	.101222		-.130460	1	.806389	1	-.474964	1
3.6	.485467	1	-.656376	1	-.113645	1	.104066		-.137347	1	.843590	1	-.482366	1
3.8	.480592	1	-.694123	1	-.120900	1	.106611		-.144279	1	.880568	1	-.489201	1
4.0	.476127	1	-.731660	1	-.128200	1	.108899		-.151255	1	.917332	1	-.495535	1
4.2	.472010	1	-.768989	1	-.135544	1	.110967		-.158277	1	.953887	1	-.501426	1
4.4	.468194	1	-.806112	1	-.142932	1	.112843		-.165345	1	.990239	1	-.506922	1
4.6	.464640	1	-.843033	1	-.150365	1	.114551		-.172458	1	.102639	2	-.512064	1
4.8	.461316	1	-.879755	1	-.157841	1	.116112		-.179617	1	.106235	2	-.516888	1
5.0	.458194	1	-.916280	1	-.165362	1	.117543		-.186823	1	.109813	2	-.521428	1
5.2	.455253	1	-.952612	1	-.172927	1	.118859		-.194075	1	.113371	2	-.525710	1
5.4	.452473	1	-.988754	1	-.180537	1	.120071		-.201373	1	.116912	2	-.529758	1
5.6	.449838	1	-.102471	2	-.188191	1	.121190		-.208718	1	.120434	2	-.533595	1
5.8	.447334	1	-.106048	2	-.195889	1	.122226		-.216109	1	.123939	2	-.537239	1
6.0	.444949	1	-.109607	2	-.203632	1	.123186		-.223547	1	.127427	2	-.540707	1
6.2	.442672	1	-.113148	2	-.211419	1	.124078		-.231031	1	.130898	2	-.544015	1

Z = 50, A = 117

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.533821	-.104519 - 2	-.943606 - 4	.883752	-.411874 - 3	.489476 - 2	-.445512
.6	.291003	-.232976 - 2	-.210978 - 3	.153983	1 -.673677 - 3	.797981 - 2	-.288404
.8	.213174	-.431153 - 2	-.391977 - 3	.206285	1 -.100781 - 2	.118876 - 1	-.231161
1.0	.177814	-.704575 - 2	-.643480 - 3	.248883	1 -.141476 - 2	.166065 - 1	-.204374
1.2	.158460	-.105571 - 1	-.969020 - 3	.283631	1 -.189491 - 2	.221234 - 1	-.190335
1.4	.146558	-.148544 - 1	-.137078 - 2	.312054	1 -.244888 - 2	.284277 - 1	-.182521
1.6	.138624	-.199387 - 1	-.185027 - 2	.335437	1 -.307748 - 2	.355117 - 1	-.178042
1.8	.133011	-.258078 - 1	-.240875 - 2	.354822	1 -.378166 - 2	.433694 - 1	-.175464
2.0	.128853	-.324582 - 1	-.304732 - 2	.371036	1 -.456247 - 2	.519959 - 1	-.174017
2.2	.125657	-.398857 - 1	-.376705 - 2	.384722	1 -.542098 - 2	.613872 - 1	-.173266
2.4	.123127	-.480862 - 1	-.456900 - 2	.396378	1 -.635831 - 2	.715395 - 1	-.172951
2.6	.121072	-.570557 - 1	-.545424 - 2	.406391	1 -.737560 - 2	.824496 - 1	-.172913
2.8	.119368	-.667905 - 1	-.642384 - 2	.415062	1 -.847398 - 2	.941142 - 1	-.173054
3.0	.117930	-.772868 - 1	-.747887 - 2	.422628	1 -.965461 - 2	.106530	-.173307
3.2	.116697	-.885411 - 1	-.862043 - 2	.429276	1 -.109186 - 1	.119695	-.173632
3.4	.115625	-.100550	-.984961 - 2	.435155	1 -.122672 - 1	.133606	-.173999
3.6	.114683	-.113311	-.111675 - 1	.440385	1 -.137015 - 1	.148260	-.174389
3.8	.113846	-.126820	-.125753 - 1	.445064	1 -.152226 - 1	.163655	-.174791
4.0	.113096	-.141075	-.140740 - 1	.449270	1 -.168318 - 1	.179788	-.175195
4.2	.112418	-.156072	-.156648 - 1	.453069	1 -.185301 - 1	.196657	-.175595
4.4	.111801	-.171810	-.173487 - 1	.456516	1 -.203188 - 1	.214259	-.175988
4.6	.111237	-.188285	-.191270 - 1	.459655	1 -.221989 - 1	.232591	-.176372
4.8	.110717	-.205494	-.210008 - 1	.462525	1 -.241716 - 1	.251652	-.176744
5.0	.110235	-.223436	-.229710 - 1	.465159	1 -.262381 - 1	.271439	-.177103
5.2	.109787	-.242107	-.250390 - 1	.467582	1 -.283996 - 1	.291949	-.177450
5.4	.109369	-.261506	-.272058 - 1	.469820	1 -.306570 - 1	.313181	-.177784
5.6	.108977	-.281629	-.294725 - 1	.471891	1 -.330117 - 1	.335132	-.178105
5.8	.108608	-.302475	-.318402 - 1	.473814	1 -.354647 - 1	.357800	-.178414
6.0	.108260	-.324040	-.343102 - 1	.475603	1 -.380172 - 1	.381183	-.178710
6.2	.107931	-.346324	-.368834 - 1	.477272	1 -.406703 - 1	.405278	-.178995

Z = 51, A = 125

p	F ₀		f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁				
.4	.151350	2	-.560707	-.909648	- 1	-.301413	-.310992	.205011	1	-.203614 1		
.6	.107688	2	-.861628	-.140203		-.132357	-.387487	.254623	1	-.221838 1		
.8	.877062	1	-.120309	1	-.196516	-.582395	- 1	-.458478	.300044	1	-.252461 1	
1.0	.767418	1	-.157068	1	-.257703	-.153903	- 1	-.527395	.343510	1	-.282007 1	
1.2	.699801	1	-.195395	1	-.322165	.129450	- 1	-.595470	.385825	1	-.308423 1	
1.4	.654457	1	-.234611	1	-.388854	.332783	- 1	-.663230	.427343	1	-.331610 1	
1.6	.622062	1	-.274287	1	-.457108	.485274	- 1	-.730972	.468249	1	-.351919 1	
1.8	.597746	1	-.314158	1	-.526514	.605047	- 1	-.798831	.508654	1	-.369753 1	
2.0	.578762	1	-.354060	1	-.596813	.701470	- 1	-.866915	.548631	1	-.385497 1	
2.2	.563463	1	-.393889	1	-.667843	.780807	- 1	-.935288	.588230	1	-.399475 1	
2.4	.550808	1	-.433503	1	-.739499	.847240	- 1	-.100400	1	.627487	1	-.411959 1
2.6	.540114	1	-.473101	1	-.811715	.903676	- 1	-.107307	1	.666429	1	-.423171 1
2.8	.530914	1	-.512421	1	-.884446	.952201	- 1	-.114254	1	.705077	1	-.433296 1
3.0	.522878	1	-.551526	1	-.957664	.994355	- 1	-.121242	1	.743447	1	-.442486 1
3.2	.515770	1	-.590411	1	-.103135	1	.103130	-.128271	1	.781555	1	-.450867 1
3.4	.509413	1	-.629069	1	-.110550	1	.106393	-.135344	1	.819410	1	-.458543 1
3.6	.503675	1	-.667502	1	-.118009	1	.109294	-.142461	1	.857024	1	-.465605 1
3.8	.498453	1	-.705709	1	-.125514	1	.111888	-.149623	1	.894403	1	-.472125 1
4.0	.493667	1	-.743692	1	-.133062	1	.114221	-.156829	1	.931556	1	-.478168 1
4.2	.489255	1	-.781454	1	-.140655	1	.116327	-.164082	1	.968490	1	-.483788 1
4.4	.485163	1	-.818998	1	-.148292	1	.118238	-.171380	1	.100521	2	-.489030 1
4.6	.481352	1	-.856327	1	-.155973	1	.119978	-.178724	1	.104172	2	-.493936 1
4.8	.477786	1	-.893444	1	-.163698	1	.121568	-.186115	1	.107803	2	-.498540 1
5.0	.474438	1	-.930353	1	-.171468	1	.123024	-.193552	1	.111413	2	-.502873 1
5.2	.471282	1	-.967058	1	-.179282	1	.124362	-.201035	1	.115005	2	-.506960 1
5.4	.468299	1	-.100356	2	-.187140	1	.125594	-.208566	1	.118577	2	-.510826 1
5.6	.465471	1	-.103987	2	-.195042	1	.126731	-.216143	1	.122130	2	-.514491 1
5.8	.462784	1	-.107598	2	-.202989	1	.127783	-.223766	1	.125664	2	-.517973 1
6.0	.460224	1	-.111189	2	-.210981	1	.128758	-.231437	1	.129181	2	-.521288 1
6.2	.457781	1	-.114762	2	-.219017	1	.129663	-.239154	1	.132679	2	-.524451 1

Z = 51, A = 125

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.564513	-.110243 - 2	-.101560 - 3	.855194	-.441540 - 3	.514311 - 2	-.456027
.6	.305370	-.244355 - 2	-.225801 - 3	.150532	1 -.719422 - 3	.835237 - 2	-.293658
.8	.222652	-.450822 - 2	-.418232 - 3	.202245	1 -.107373 - 2	.124134 - 1	-.234830
1.0	.185162	-.735339 - 2	-.685305 - 3	.244354	1 -.150504 - 2	.173149 - 1	-.207362
1.2	.164672	-.110044 - 1	-.103074 - 2	.278713	1 -.201379 - 2	.230434 - 1	-.192980
1.4	.152081	-.154702 - 1	-.145683 - 2	.306829	1 -.260063 - 2	.295879 - 1	-.184980
1.6	.143691	-.207518 - 1	-.196517 - 2	.329968	1 -.326641 - 2	.369404 - 1	-.180396
1.8	.137756	-.268467 - 1	-.255708 - 2	.349159	1 -.401214 - 2	.450945 - 1	-.177757
2.0	.133359	-.337511 - 1	-.323371 - 2	.365216	1 -.483889 - 2	.540451 - 1	-.176275
2.2	.129979	-.414606 - 1	-.399618 - 2	.378773	1 -.574782 - 2	.637876 - 1	-.175505
2.4	.127302	-.499707 - 1	-.484561 - 2	.390322	1 -.674008 - 2	.743183 - 1	-.175182
2.6	.125127	-.592773 - 1	-.578312 - 2	.400245	1 -.781687 - 2	.856333 - 1	-.175142
2.8	.123323	-.693761 - 1	-.680981 - 2	.408840	1 -.897938 - 2	.977295 - 1	-.175285
3.0	.121799	-.802633 - 1	-.792683 - 2	.416341	1 -.102288 - 1	.110603	-.175543
3.2	.120492	-.919351 - 1	-.913532 - 2	.422933	1 -.115664 - 1	.124252	-.175873
3.4	.119356	-.104388	-.104364 - 1	.428763	1 -.129933 - 1	.138673	-.176247
3.6	.118356	-.117619	-.118313 - 1	.433950	1 -.145108 - 1	.153862	-.176646
3.8	.117468	-.131623	-.133211 - 1	.438591	1 -.161201 - 1	.169817	-.177055
4.0	.116672	-.146400	-.149071 - 1	.442763	1 -.178223 - 1	.186536	-.177467
4.2	.115952	-.161944	-.165903 - 1	.446533	1 -.196187 - 1	.204015	-.177876
4.4	.115297	-.178253	-.183720 - 1	.449953	1 -.215106 - 1	.222252	-.178277
4.6	.114697	-.195325	-.202533 - 1	.453068	1 -.234990 - 1	.241245	-.178668
4.8	.114144	-.213157	-.222354 - 1	.455916	1 -.255853 - 1	.260990	-.179048
5.0	.113632	-.231745	-.243195 - 1	.458529	1 -.277705 - 1	.281485	-.179415
5.2	.113155	-.251087	-.265068 - 1	.460934	1 -.300560 - 1	.302728	-.179769
5.4	.112710	-.271180	-.287984 - 1	.463155	1 -.324429 - 1	.324716	-.180110
5.6	.112293	-.292022	-.311955 - 1	.465211	1 -.349325 - 1	.347447	-.180437
5.8	.111900	-.313611	-.336994 - 1	.467119	1 -.375258 - 1	.370918	-.180752
6.0	.111530	-.335943	-.363111 - 1	.468895	1 -.402241 - 1	.395127	-.181055
6.2	.111179	-.359017	-.390318 - 1	.470552	1 -.430287 - 1	.420072	-.181346

Z = 52, A = 124

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.159586	2	-.580721		-.959763	- 1	-.305629		-.325104		.210074	1	-.200654	1
.6	.113420	2	-.888605		-.147292		-.132040		-.404822		.260769	1	-.216591	1
.8	.922422	1	-.123738	1	-.205875		-.562592	- 1	-.478616		.307073	1	-.245663	1
1.0	.805999	1	-.161245	1	-.269455		-.125129	- 1	-.550140		.351323	1	-.273926	1
1.2	.734092	1	-.200325	1	-.336376		.164001	- 1	-.620719		.394368	1	-.299234	1
1.4	.685807	1	-.240288	1	-.405556		.370933	- 1	-.690930		.436582	1	-.321454	1
1.6	.651267	1	-.280699	1	-.476312		.527012	- 1	-.761065		.478160	1	-.340904	1
1.8	.625312	1	-.321292	1	-.548217		.649206	- 1	-.831293		.519218	1	-.357977	1
2.0	.605027	1	-.361899	1	-.621006		.747583	- 1	-.901720		.559831	1	-.373039	1
2.2	.588664	1	-.402419	1	-.694510		.828532	- 1	-.972415		.600050	1	-.386405	1
2.4	.575117	1	-.442780	1	-.768623		.896316	- 1	-.104343	1	.639913	1	-.398335	1
2.6	.563660	1	-.482966	1	-.843278		.953902	- 1	-.111478	1	.679448	1	-.409045	1
2.8	.553796	1	-.522930	1	-.918430		.100342		-.118652	1	.718676	1	-.418713	1
3.0	.545175	1	-.562665	1	-.994051		.104643		-.125864	1	.757615	1	-.427483	1
3.2	.537545	1	-.602166	1	-.107012	1	.108413		-.133117	1	.796279	1	-.435479	1
3.4	.530718	1	-.641427	1	-.114664	1	.111742		-.140412	1	.834680	1	-.442800	1
3.6	.524553	1	-.680450	1	-.122358	1	.114701		-.147750	1	.872829	1	-.449533	1
3.8	.518940	1	-.719234	1	-.130096	1	.117348		-.155131	1	.910733	1	-.455748	1
4.0	.513795	1	-.757783	1	-.137876	1	.119728		-.162556	1	.948400	1	-.461507	1
4.2	.509049	1	-.796099	1	-.145699	1	.121877		-.170025	1	.985839	1	-.466862	1
4.4	.504648	1	-.834186	1	-.153564	1	.123826		-.177539	1	.102305	2	-.471857	1
4.6	.500548	1	-.872047	1	-.161473	1	.125600		-.185097	1	.106005	2	-.476530	1
4.8	.496711	1	-.909686	1	-.169424	1	.127220		-.192701	1	.109683	2	-.480916	1
5.0	.493107	1	-.947107	1	-.177418	1	.128705		-.200351	1	.113341	2	-.485042	1
5.2	.489710	1	-.984314	1	-.185454	1	.130069		-.208045	1	.116978	2	-.488935	1
5.4	.486499	1	-.102131	2	-.193534	1	.131324		-.215786	1	.120595	2	-.492617	1
5.6	.483455	1	-.105810	2	-.201657	1	.132483		-.223572	1	.124193	2	-.496107	1
5.8	.480562	1	-.109468	2	-.209823	1	.133555		-.231404	1	.127771	2	-.499423	1
6.0	.477806	1	-.113107	2	-.218033	1	.134547		-.239282	1	.131331	2	-.502581	1
6.2	.475175	1	-.116725	2	-.226286	1	.135468		-.247205	1	.134871	2	-.505593	1

Z = 52, A = 124

p	$\bar{P}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.597962	-.113547 - 2	-.106516 - 3	.827454	-.461986 - 3	.527684 - 2	-.466664
.6	.321021	-.250278 - 2	-.235488 - 3	.147202	1 -.749838 - 3	.853715 - 2	-.298898
.8	.232981	-.460345 - 2	-.434811 - 3	.198356	1 -.111643 - 2	.126587 - 1	-.238461
1.0	.193176	-.749477 - 2	-.711083 - 3	.240000	1 -.156242 - 2	.176308 - 1	-.210303
1.2	.171450	-.112022 - 1	-.106809 - 2	.273990	1 -.208821 - 2	.234400 - 1	-.195576
1.4	.158111	-.157347 - 1	-.150816 - 2	.301815	1 -.269445 - 2	.300753 - 1	-.187387
1.6	.149225	-.210931 - 1	-.203290 - 2	.324724	1 -.338197 - 2	.375284 - 1	-.182696
1.8	.142940	-.272747 - 1	-.264360 - 2	.343731	1 -.415178 - 2	.457928 - 1	-.179996
2.0	.138283	-.342756 - 1	-.334142 - 2	.359639	1 -.500495 - 2	.548631 - 1	-.178480
2.2	.134703	-.420913 - 1	-.412748 - 2	.373074	1 -.594261 - 2	.647348 - 1	-.177691
2.4	.131866	-.507170 - 1	-.500289 - 2	.384523	1 -.696592 - 2	.754037 - 1	-.177359
2.6	.129561	-.601485 - 1	-.596874 - 2	.394362	1 -.807606 - 2	.868660 - 1	-.177317
2.8	.127648	-.703814 - 1	-.702616 - 2	.402886	1 -.927423 - 2	.991183 - 1	-.177461
3.0	.126031	-.814117 - 1	-.817626 - 2	.410326	1 -.105616 - 1	.112157	-.177724
3.2	.124644	-.932355 - 1	-.942019 - 2	.416865	1 -.119395 - 1	.125979	-.178060
3.4	.123437	-.105849	-.107591 - 1	.422650	1 -.134089 - 1	.140582	-.178441
3.6	.122375	-.119249	-.121941 - 1	.427797	1 -.149712 - 1	.155962	-.178848
3.8	.121432	-.133432	-.137264 - 1	.432402	1 -.166276 - 1	.172115	-.179265
4.0	.120585	-.148394	-.153572 - 1	.436543	1 -.183792 - 1	.189041	-.179685
4.2	.119819	-.164133	-.170876 - 1	.440285	1 -.202274 - 1	.206735	-.180102
4.4	.119122	-.180645	-.189187 - 1	.443679	1 -.221731 - 1	.225194	-.180511
4.6	.118483	-.197927	-.208519 - 1	.446772	1 -.242178 - 1	.244417	-.180910
4.8	.117895	-.215977	-.228881 - 1	.449600	1 -.263626 - 1	.264400	-.181297
5.0	.117349	-.234791	-.250287 - 1	.452194	1 -.286087 - 1	.285141	-.181672
5.2	.116842	-.254368	-.272748 - 1	.454583	1 -.309572 - 1	.306638	-.182033
5.4	.116368	-.274703	-.296275 - 1	.456788	1 -.334095 - 1	.328887	-.182381
5.6	.115923	-.295794	-.320881 - 1	.458829	1 -.359666 - 1	.351886	-.182715
5.8	.115504	-.317640	-.346577 - 1	.460725	1 -.386298 - 1	.375632	-.183037
6.0	.115109	-.340236	-.373374 - 1	.462488	1 -.414003 - 1	.400124	-.183345
6.2	.114735	-.363581	-.401285 - 1	.464133	1 -.442793 - 1	.425359	-.183642

Z = 53, A = 127

p	F ₀		f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁		
.4	.168043	2	-.601007	-.101230	-.309763	-.339469	.215085	1	-.197807	1
.6	.119301	2	-.915804	-.154702	-.131583	-.422474	.266849	1	-.211524	1
.8	.968911	1	-.127179	1	-.215638	-.541301 - 1	-.499128	.314018	1	-.239111 1
1.0	.845480	1	-.165422	1	-.281698	-.948345 - 2	-.573311	.359031	1	-.266149 1
1.2	.769128	1	-.205239	1	-.351173	.200088 - 1	-.646448	.402783	1	-.290404 1
1.4	.717788	1	-.245929	1	-.422942	.411128 - 1	-.719158	.445667	1	-.311703 1
1.6	.681019	1	-.287054	1	-.496302	.570301 - 1	-.791756	.487888	1	-.330341 1
1.8	.653356	1	-.328345	1	-.570813	.694921 - 1	-.864419	.529567	1	-.346694 1
2.0	.631715	1	-.369633	1	-.646201	.795254 - 1	-.937260	.570782	1	-.361114 1
2.2	.614240	1	-.410815	1	-.722295	.877814 - 1	-.101035 1	.611587	1	-.373902 1
2.4	.599760	1	-.451829	1	-.798985	.946949 - 1	-.108374 1	.652020	1	-.385312 1
2.6	.587505	1	-.492635	1	-.876203	.100568	-.115747 1	.692109	1	-.395550 1
2.8	.576946	1	-.533210	1	-.953904	.105618	-.123156 1	.731878	1	-.404788 1
3.0	.567712	1	-.573541	1	-.103206 1	.110005	-.130603 1	.771344	1	-.413166 1
3.2	.559536	1	-.613621	1	-.111065 1	.113849	-.138090 1	.810522	1	-.420802 1
3.4	.552216	1	-.653447	1	-.118968 1	.117243	-.145618 1	.849425	1	-.427792 1
3.6	.545603	1	-.693020	1	-.126912 1	.120261	-.153187 1	.888062	1	-.434219 1
3.8	.539581	1	-.732340	1	-.134898 1	.122959	-.160799 1	.926444	1	-.440151 1
4.0	.534059	1	-.771412	1	-.142925 1	.125384	-.168454 1	.964578	1	-.445647 1
4.2	.528965	1	-.810237	1	-.150994 1	.127574	-.176152 1	.100247	2	-.450757 1
4.4	.524239	1	-.848821	1	-.159104 1	.129560	-.183895 1	.104013	2	-.455524 1
4.6	.519835	1	-.887168	1	-.167257 1	.131367	-.191681 1	.107756	2	-.459983 1
4.8	.515714	1	-.925280	1	-.175451 1	.133017	-.199513 1	.111477	2	-.464168 1
5.0	.511842	1	-.963163	1	-.183686 1	.134529	-.207309 1	.115176	2	-.468107 1
5.2	.508193	1	-.100082	2	-.191964 1	.135917	-.215310 1	.118854	2	-.471822 1
5.4	.504742	1	-.103826	2	-.200284 1	.137194	-.223275 1	.122510	2	-.475337 1
5.6	.501471	1	-.107548	2	-.208647 1	.138373	-.231287 1	.126146	2	-.478669 1
5.8	.498362	1	-.111248	2	-.217051 1	.139462	-.239343 1	.129762	2	-.481836 1
6.0	.495401	1	-.114927	2	-.225498 1	.140470	-.247444 1	.133358	2	-.484851 1
6.2	.492574	1	-.118586	2	-.233988 1	.141406	-.255591 1	.136935	2	-.487729 1

Z = 53, A = 127

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.632887	-.118156 - 2	-.112913 - 3	.800485	-.488175 - 3	.546956 - 2	-.477427
.6	.337251	-.259002 - 2	-.248247 - 3	.143986	1 -.789375 - 3	.881607 - 2	-.304123
.8	.243640	-.474946 - 2	-.456963 - 3	.194609	1 -.117256 - 2	.130423 - 1	-.242051
1.0	.201417	-.771813 - 2	-.745890 - 3	.235812	1 -.163845 - 2	.181382 - 1	-.213196
1.2	.178404	-.115219 - 1	-.111894 - 2	.269451	1 -.218749 - 2	.240902 - 1	-.198120
1.4	.164284	-.161696 - 1	-.157851 - 2	.297000	1 -.282033 - 2	.308870 - 1	-.189742
1.6	.154883	-.216621 - 1	-.212623 - 2	.319691	1 -.353781 - 2	.385200 - 1	-.184944
1.8	.148233	-.279964 - 1	-.276344 - 2	.338524	1 -.434095 - 2	.469825 - 1	-.182181
2.0	.143306	-.351684 - 1	-.349130 - 2	.354292	1 -.523084 - 2	.562688 - 1	-.180630
2.2	.139517	-.431733 - 1	-.431096 - 2	.367613	1 -.620863 - 2	.663741 - 1	-.179822
2.4	.136514	-.520062 - 1	-.522352 - 2	.378967	1 -.727549 - 2	.772941 - 1	-.179481
2.6	.134073	-.616625 - 1	-.623012 - 2	.388727	1 -.843263 - 2	.890248 - 1	-.179437
2.8	.132046	-.721377 - 1	-.733188 - 2	.397184	1 -.968126 - 2	.101562	-.179583
3.0	.130332	-.834276 - 1	-.852996 - 2	.404568	1 -.110226 - 1	.114903	-.179850
3.2	.128861	-.955279 - 1	-.982550 - 2	.411958	1 -.124579 - 1	.129044	-.180192
3.4	.127581	-.108435	-.112197 - 1	.416800	1 -.139884 - 1	.143982	-.180581
3.6	.126455	-.122145	-.127137 - 1	.421910	1 -.156152 - 1	.159713	-.180995
3.8	.125453	-.136654	-.143086 - 1	.426482	1 -.173397 - 1	.176235	-.181420
4.0	.124554	-.151959	-.160058 - 1	.430594	1 -.191631 - 1	.193544	-.181849
4.2	.123740	-.168057	-.178063 - 1	.434310	1 -.210866 - 1	.211637	-.182274
4.4	.122999	-.184944	-.197113 - 1	.437681	1 -.231114 - 1	.230511	-.182691
4.6	.122320	-.202618	-.217222 - 1	.440753	1 -.252388 - 1	.250165	-.183098
4.8	.121694	-.221074	-.238399 - 1	.443562	1 -.274700 - 1	.270594	-.183492
5.0	.121114	-.240310	-.260658 - 1	.446139	1 -.298061 - 1	.291796	-.183874
5.2	.120574	-.260324	-.284011 - 1	.448512	1 -.322486 - 1	.313768	-.184242
5.4	.120069	-.281112	-.308469 - 1	.450702	1 -.347984 - 1	.336508	-.184597
5.6	.119596	-.302671	-.334044 - 1	.452731	1 -.374570 - 1	.360013	-.184938
5.8	.119150	-.324999	-.360749 - 1	.454614	1 -.402254 - 1	.384280	-.185266
6.0	.118729	-.348093	-.388594 - 1	.456366	1 -.431050 - 1	.409307	-.185581
6.2	.118331	-.371950	-.417593 - 1	.458001	1 -.460969 - 1	.435091	-.185883

Z = 54, A = 131

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.176913	2	-.621924		-.106742		-.313811		-.354287		.220175	1	-.195066	1
.6	.125469	2	-.943775		-.162450		-.130985		-.440685		.273027	1	-.206626	1
.8	.101763	2	-.130710	1	-.225821		-.518496	- 1	-.520284		.321077	1	-.232789	1
1.0	.886824	1	-.169700	1	-.294446		-.629920	- 2	-.597203		.366863	1	-.258657	1
1.2	.805781	1	-.210262	1	-.366559		.237742	- 1	-.672969		.411327	1	-.281908	1
1.4	.751213	1	-.251687	1	-.441002		.452904	- 1	-.748246		.454884	1	-.302332	1
1.6	.712084	1	-.293533	1	-.517050		.615182	- 1	-.823370		.497750	1	-.320200	1
1.8	.682612	1	-.335526	1	-.594249		.742235	- 1	-.898532		.540051	1	-.335870	1
2.0	.659531	1	-.377498	1	-.672320		.844531	- 1	-.973850		.581868	1	-.349680	1
2.2	.640877	1	-.419346	1	-.751084		.928708	- 1	-.104940	1	.623257	1	-.361923	1
2.4	.625407	1	-.461006	1	-.830432		.999198	- 1	-.112524	1	.664256	1	-.372841	1
2.6	.612303	1	-.502440	1	-.910294		.105908		-.120140	1	.704896	1	-.382634	1
2.8	.601006	1	-.543625	1	-.990624		.111057		-.127790	1	.745201	1	-.391466	1
3.0	.591120	1	-.584549	1	-.107140	1	.115529		-.135478	1	.785188	1	-.399475	1
3.2	.582362	1	-.625205	1	-.115259	1	.119447		-.143205	1	.824874	1	-.406772	1
3.4	.574518	1	-.665592	1	-.123420	1	.122907		-.150971	1	.864270	1	-.413451	1
3.6	.567430	1	-.705710	1	-.131621	1	.125983		-.158779	1	.903389	1	-.419591	1
3.8	.560972	1	-.745561	1	-.139863	1	.128732		-.166628	1	.942239	1	-.425258	1
4.0	.555049	1	-.785149	1	-.148146	1	.131203		-.174519	1	.980830	1	-.430507	1
4.2	.549582	1	-.824477	1	-.156468	1	.133433		-.182453	1	.101917	2	-.435388	1
4.4	.544511	1	-.863550	1	-.164832	1	.135455		-.190431	1	.105726	2	-.439941	1
4.6	.539784	1	-.902373	1	-.173235	1	.137295		-.198452	1	.109511	2	-.444200	1
4.8	.535360	1	-.940949	1	-.181680	1	.138975		-.206517	1	.113273	2	-.448198	1
5.0	.531204	1	-.979204	1	-.190166	1	.140512		-.214626	1	.117012	2	-.451961	1
5.2	.527286	1	-.101738	2	-.198692	1	.141923		-.222779	1	.120729	2	-.455511	1
5.4	.523581	1	-.105525	2	-.207260	1	.143222		-.230977	1	.124424	2	-.458870	1
5.6	.520069	1	-.109288	2	-.215869	1	.144419		-.239220	1	.128097	2	-.462055	1
5.8	.516730	1	-.113029	2	-.224520	1	.145526		-.247507	1	.131749	2	-.465083	1
6.0	.513550	1	-.116748	2	-.233213	1	.146550		-.255838	1	.135380	2	-.467967	1
6.2	.510514	1	-.120446	2	-.241947	1	.147498		-.264214	1	.138991	2	-.470720	1

Z = 54, A = 131

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.669692	-.123233 - 2	-.119949 - 3	.774240	-.516825 - 3	.568198 - 2	-.488321
.6	.354264	-.268656 - 2	-.262270 - 3	.140878	1 -.832630 - 3	.912504 - 2	-.309334
.8	.254773	-.491161 - 2	-.481305 - 3	.190998	1 -.123397 - 2	.134688 - 1	-.245602
1.0	.210003	-.796686 - 2	-.784143 - 3	.231781	1 -.172167 - 2	.187038 - 1	-.216041
1.2	.185635	-.118786 - 1	-.117484 - 2	.265087	1 -.229618 - 2	.248163 - 1	-.200613
1.4	.170695	-.166556 - 1	-.165586 - 2	.292374	1 -.295817 - 2	.317948 - 1	-.192044
1.6	.160752	-.222987 - 1	-.222888 - 2	.314858	1 -.370851 - 2	.396302 - 1	-.187137
1.8	.153719	-.288046 - 1	-.289527 - 2	.333527	1 -.454822 - 2	.483157 - 1	-.184312
2.0	.148508	-.361690 - 1	-.365623 - 2	.349163	1 -.547842 - 2	.578452 - 1	-.182726
2.2	.144500	-.443867 - 1	-.451292 - 2	.362377	1 -.650028 - 2	.682136 - 1	-.181899
2.4	.141321	-.534527 - 1	-.546646 - 2	.373642	1 -.761500 - 2	.794164 - 1	-.181549
2.6	.138737	-.633621 - 1	-.651801 - 2	.383328	1 -.882382 - 2	.914493 - 1	-.181502
2.8	.136591	-.741101 - 1	-.766873 - 2	.391723	1 -.101280 - 1	.104308	-.181650
3.0	.134775	-.856922 - 1	-.891978 - 2	.399053	1 -.115287 - 1	.117990	-.181921
3.2	.133216	-.981041 - 1	-.102723 - 1	.405497	1 -.130273 - 1	.132490	-.182269
3.4	.131859	-.111342	-.117276 - 1	.411200	1 -.146249 - 1	.147806	-.182665
3.6	.130664	-.125401	-.132868 - 1	.416275	1 -.163230 - 1	.163933	-.183087
3.8	.129601	-.140278	-.149511 - 1	.420817	1 -.181226 - 1	.180869	-.183520
4.0	.128647	-.155970	-.167217 - 1	.424902	1 -.200252 - 1	.198610	-.183957
4.2	.127783	-.172473	-.185999 - 1	.428594	1 -.220319 - 1	.217154	-.184390
4.4	.126996	-.189782	-.205868 - 1	.431944	1 -.241439 - 1	.236496	-.184815
4.6	.126274	-.207896	-.226837 - 1	.434996	1 -.263627 - 1	.256635	-.185230
4.8	.125609	-.226811	-.248918 - 1	.437787	1 -.286894 - 1	.277567	-.185632
5.0	.124992	-.246524	-.272124 - 1	.440349	1 -.311252 - 1	.299209	-.186021
5.2	.124418	-.267030	-.296466 - 1	.442707	1 -.336715 - 1	.321799	-.186397
5.4	.123881	-.288329	-.321957 - 1	.444884	1 -.363295 - 1	.345092	-.186758
5.6	.123377	-.310416	-.348609 - 1	.446900	1 -.391003 - 1	.369168	-.187106
5.8	.122903	-.333288	-.376435 - 1	.448773	1 -.419854 - 1	.394022	-.187440
6.0	.122455	-.356943	-.405446 - 1	.450514	1 -.449859 - 1	.419653	-.187761
6.2	.122030	-.381378	-.435655 - 1	.452139	1 -.481030 - 1	.446057	-.188069

Z = 55, A = 135

p	F ₀		f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁					
.4	.186291	2	-.643629		-.112527	-.317770	-.369648	.225397	1	-.192422	1		
.6	.131991	2	-.972748		-.170557	-.130243	-.459561	.279369	1	-.201885	1		
.8	.106913	2	-.134361	1	-.236449	-.494153 - 1	-.542209	.328325	1	-.226683	1		
1.0	.930494	1	-.174118	1	-.307725	-.295741 - 2	-.621952	.374904	1	-.251433	1		
1.2	.844466	1	-.215444	1	-.382561	.276992 - 1	-.700426	.420098	1	-.273727	1		
1.4	.786464	1	-.257623	1	-.459762	.496292 - 1	-.778343	.464345	1	-.293318	1		
1.6	.744820	1	-.300206	1	-.538578	.661687 - 1	-.856063	.507869	1	-.310453	1		
1.8	.713420	1	-.342918	1	-.618545	.791185 - 1	-.933791	.550805	1	-.325475	1		
2.0	.688803	1	-.385588	1	-.699373	.895453 - 1	-.101165	1	.593234	1	-.338708	1	
2.2	.668888	1	-.428114	1	-.780882	.981255 - 1	-.108972	1	.635216	1	-.350434	1	
2.4	.652360	1	-.470433	1	-.862959	.105311	-.116806	1	.676792	1	-.360886	1	
2.6	.638349	1	-.512506	1	-.945532	.111414	-.124671	1	.717991	1	-.370257	1	
2.8	.626261	1	-.554312	1	-.102856	1	.116662	-.132569	1	.758839	1	-.378707	1
3.0	.615679	1	-.595839	1	-.111201	1	.121220	-.140503	1	.799355	1	-.386367	1
3.2	.606299	1	-.637081	1	-.119586	1	.125214	-.148475	1	.839554	1	-.393344	1
3.4	.597894	1	-.678037	1	-.128012	1	.128739	-.156485	1	.879450	1	-.399730	1
3.6	.590296	1	-.718708	1	-.136477	1	.131872	-.164535	1	.919055	1	-.405599	1
3.8	.583372	1	-.759096	1	-.144901	1	.134673	-.172626	1	.958379	1	-.411015	1
4.0	.577019	1	-.799207	1	-.153523	1	.137189	-.180759	1	.997430	1	-.416033	1
4.2	.571155	1	-.839043	1	-.162105	1	.139460	-.188933	1	.103622	2	-.420698	1
4.4	.565714	1	-.878611	1	-.170726	1	.141519	-.197150	1	.107475	2	-.425049	1
4.6	.560642	1	-.917915	1	-.179387	1	.143391	-.205409	1	.111302	2	-.429121	1
4.8	.555894	1	-.956960	1	-.188087	1	.145099	-.213712	1	.115106	2	-.432943	1
5.0	.551433	1	-.995750	1	-.196826	1	.146663	-.222058	1	.118885	2	-.436540	1
5.2	.547227	1	-.103429	2	-.205606	1	.148098	-.230448	1	.122641	2	-.439935	1
5.4	.543250	1	-.107259	2	-.214427	1	.149417	-.238882	1	.126374	2	-.443148	1
5.6	.539480	1	-.111064	2	-.223287	1	.150633	-.247359	1	.130085	2	-.446195	1
5.8	.535896	1	-.114846	2	-.232188	1	.151756	-.255880	1	.133773	2	-.449092	1
6.0	.532482	1	-.118605	2	-.241130	1	.152795	-.264445	1	.137439	2	-.451852	1
6.2	.529223	1	-.122341	2	-.250112	1	.153757	-.273055	1	.141084	2	-.454488	1

Z = 55, A = 135

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.708608	-.128491 - 2	-.127344 - 3	.748678	-.546784 - 3	.590065 - 2	-.499349
.6	.372168	-.278602 - 2	-.276926 - 3	.137872	1 -.877718 - 3	.944224 - 2	-.314531
.8	.266452	-.507815 - 2	-.506661 - 3	.187514	1 -.129784 - 2	.139058 - 1	-.249113
1.0	.218990	-.822179 - 2	-.823904 - 3	.227898	1 -.180807 - 2	.192825 - 1	-.218838
1.2	.193192	-.122436 - 1	-.123285 - 2	.260888	1 -.240889 - 2	.255584 - 1	-.203054
1.4	.177388	-.171525 - 1	-.173604 - 2	.287926	1 -.310099 - 2	.327216 - 1	-.194292
1.6	.166872	-.229489 - 1	-.233520 - 2	.310215	1 -.388524 - 2	.407631 - 1	-.189276
1.8	.159436	-.296296 - 1	-.303173 - 2	.328730	1 -.476269 - 2	.496752 - 1	-.186389
2.0	.153925	-.371897 - 1	-.382684 - 2	.344241	1 -.573447 - 2	.594518 - 1	-.184766
2.2	.149686	-.456239 - 1	-.472172 - 2	.357354	1 -.680177 - 2	.700876 - 1	-.183920
2.4	.146323	-.549269 - 1	-.571752 - 2	.368536	1 -.796584 - 2	.815777 - 1	-.183561
2.6	.143588	-.650935 - 1	-.681541 - 2	.378153	1 -.922791 - 2	.939176 - 1	-.183511
2.8	.141315	-.761186 - 1	-.801657 - 2	.386489	1 -.105893 - 1	.107103	-.183661
3.0	.139392	-.879976 - 1	-.932219 - 2	.393770	1 -.120512 - 1	.121130	-.183936
3.2	.137740	-.100726	-.107335 - 1	.400172	1 -.136149 - 1	.135995	-.184291
3.4	.136302	-.114299	-.122517 - 1	.405837	1 -.152818 - 1	.151694	-.184693
3.6	.135034	-.128713	-.138779 - 1	.410880	1 -.170530 - 1	.168223	-.185123
3.8	.133906	-.143964	-.156136 - 1	.415394	1 -.189300 - 1	.185579	-.185565
4.0	.132893	-.160048	-.174598 - 1	.419454	1 -.209140 - 1	.203759	-.186009
4.2	.131977	-.176961	-.194178 - 1	.423123	1 -.230062 - 1	.222759	-.186450
4.4	.131141	-.194699	-.214889 - 1	.426454	1 -.252081 - 1	.242576	-.186883
4.6	.130374	-.213260	-.236743 - 1	.429488	1 -.275208 - 1	.263207	-.187306
4.8	.129667	-.232640	-.259753 - 1	.432263	1 -.299456 - 1	.284649	-.187716
5.0	.129011	-.252834	-.283932 - 1	.434810	1 -.324839 - 1	.306898	-.188112
5.2	.128401	-.273841	-.309291 - 1	.437155	1 -.351369 - 1	.329951	-.188495
5.4	.127830	-.295657	-.335843 - 1	.439320	1 -.379059 - 1	.353806	-.188863
5.6	.127294	-.318278	-.363602 - 1	.441325	1 -.407921 - 1	.378459	-.189218
5.8	.126789	-.341702	-.392578 - 1	.443196	1 -.437969 - 1	.403908	-.189558
6.0	.126313	-.365925	-.422786 - 1	.444919	1 -.469216 - 1	.430149	-.189886
6.2	.125861	-.390945	-.454237 - 1	.446535	1 -.501673 - 1	.457181	-.190200

Z = 56, A = 135

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.196545	2	-.666756		-.118633		-.321638		-.385923		.230974	1	-.189869	1
.6	.139125	2	-.100368	1	-.179085		-.129354		-.479556		.286151	1	-.197292	1
.8	.112550	2	-.138266	1	-.247600		-.468241	- 1	-.565416		.336091	1	-.220778	1
1.0	.978298	1	-.178848	1	-.321623		.545499	- 3	-.648124		.383535	1	-.244459	1
1.2	.886817	1	-.221000	1	-.399273		.317881	- 1	-.729427		.429526	1	-.265839	1
1.4	.825054	1	-.263993	1	-.479315		.541341	- 1	-.810093		.474527	1	-.284635	1
1.6	.780655	1	-.307375	1	-.560975		.709873	- 1	-.890505		.518774	1	-.301072	1
1.8	.747140	1	-.350867	1	-.643775		.841833	- 1	-.970883		.562407	1	-.315476	1
2.0	.720839	1	-.394298	1	-.727418		.948091	- 1	-.105136	1	.605512	1	-.328160	1
2.2	.699542	1	-.437565	1	-.811720		.103554		-.113201	1	.648150	1	-.339393	1
2.4	.681852	1	-.480605	1	-.896565		.110876		-.121291	1	.690364	1	-.349402	1
2.6	.666845	1	-.523380	1	-.981882		.117097		-.129410	1	.732186	1	-.358372	1
2.8	.653891	1	-.565869	1	-.106763	1	.122446		-.137559	1	.773640	1	-.366458	1
3.0	.642544	1	-.608061	1	-.115377	1	.127091		-.145743	1	.814746	1	-.373784	1
3.2	.632480	1	-.649951	1	-.124030	1	.131161		-.153962	1	.855523	1	-.380457	1
3.4	.623461	1	-.691539	1	-.132720	1	.134754		-.162218	1	.895983	1	-.386562	1
3.6	.615303	1	-.732826	1	-.141447	1	.137946		-.170512	1	.936138	1	-.392172	1
3.8	.607867	1	-.773816	1	-.150211	1	.140800		-.178845	1	.976000	1	-.397348	1
4.0	.601043	1	-.814513	1	-.159012	1	.143363		-.187210	1	.101558	2	-.402143	1
4.2	.594743	1	-.854922	1	-.167850	1	.145676		-.195631	1	.105488	2	-.406601	1
4.4	.588896	1	-.895049	1	-.176725	1	.147772		-.204085	1	.109391	2	-.410758	1
4.6	.583445	1	-.934899	1	-.185637	1	.149679		-.212581	1	.113268	2	-.414649	1
4.8	.578342	1	-.974478	1	-.194588	1	.151418		-.221119	1	.117119	2	-.418300	1
5.0	.573547	1	-.101379	2	-.203577	1	.153009		-.229698	1	.120946	2	-.421737	1
5.2	.569026	1	-.105284	2	-.212603	1	.154469		-.238319	1	.124748	2	-.424982	1
5.4	.564751	1	-.109164	2	-.221669	1	.155811		-.246984	1	.128526	2	-.428051	1
5.6	.560697	1	-.113018	2	-.230773	1	.157048		-.255690	1	.132281	2	-.430963	1
5.8	.556845	1	-.116848	2	-.239916	1	.158189		-.264440	1	.136012	2	-.433732	1
6.0	.553175	1	-.120653	2	-.249099	1	.159244		-.273232	1	.139721	2	-.436371	1
6.2	.549671	1	-.124435	2	-.258321	1	.160222		-.282067	1	.143407	2	-.438891	1

Z = 56, A = 135

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.750374	-.132698 - 2	-.133777 - 3	.723759	-.572746 - 3	.606915 - 2	-.510518
.6	.391333	-.286181 - 2	-.289344 - 3	.134963	1 -.916108 - 3	.967770 - 2	-.319715
.8	.278935	-.520073 - 2	-.527769 - 3	.184151	1 -.135151 - 2	.142211 - 1	-.252584
1.0	.228587	-.840479 - 2	-.856591 - 3	.224156	1 -.187998 - 2	.196912 - 1	-.221586
1.2	.201257	-.125008 - 1	-.128009 - 2	.256845	1 -.250199 - 2	.260741 - 1	-.205443
1.4	.184527	-.174976 - 1	-.180085 - 2	.283648	1 -.321821 - 2	.333578 - 1	-.196487
1.6	.173399	-.233955 - 1	-.242061 - 2	.305753	1 -.402951 - 2	.415329 - 1	-.191361
1.8	.165531	-.301909 - 1	-.314076 - 2	.324121	1 -.493694 - 2	.505916 - 1	-.188410
2.0	.159699	-.378790 - 1	-.396252 - 2	.339516	1 -.594161 - 2	.605276 - 1	-.186751
2.2	.155212	-.464540 - 1	-.488706 - 2	.352533	1 -.704471 - 2	.713352 - 1	-.185885
2.4	.151651	-.559106 - 1	-.591553 - 2	.363638	1 -.824747 - 2	.830093 - 1	-.185517
2.6	.148755	-.662431 - 1	-.704910 - 2	.373190	1 -.955115 - 2	.955453 - 1	-.185465
2.8	.146347	-.774465 - 1	-.828895 - 2	.381472	1 -.109570 - 1	.108939	-.185616
3.0	.144309	-.895158 - 1	-.963626 - 2	.388706	1 -.124663 - 1	.123186	-.185895
3.2	.142557	-.102446	-.110922 - 1	.395069	1 -.140804 - 1	.138282	-.186256
3.4	.141031	-.116233	-.126581 - 1	.400700	1 -.158005 - 1	.154223	-.186666
3.6	.139687	-.130873	-.143350 - 1	.405713	1 -.176279 - 1	.171006	-.187103
3.8	.138489	-.146361	-.161243 - 1	.410201	1 -.195639 - 1	.188627	-.187553
4.0	.137414	-.162692	-.180272 - 1	.414238	1 -.216098 - 1	.207083	-.188005
4.2	.136440	-.179865	-.200449 - 1	.417887	1 -.237669 - 1	.226370	-.188455
4.4	.135552	-.197873	-.221787 - 1	.421199	1 -.260366 - 1	.246484	-.188896
4.6	.134737	-.216715	-.244298 - 1	.424217	1 -.284200 - 1	.267422	-.189326
4.8	.133985	-.236386	-.267994 - 1	.426977	1 -.309184 - 1	.289182	-.189744
5.0	.133288	-.256883	-.292889 - 1	.429510	1 -.335333 - 1	.311759	-.190148
5.2	.132638	-.278202	-.318995 - 1	.431843	1 -.362658 - 1	.335151	-.190537
5.4	.132031	-.300341	-.346324 - 1	.433997	1 -.391172 - 1	.359354	-.190913
5.6	.131460	-.323295	-.374889 - 1	.435992	1 -.420888 - 1	.384366	-.191274
5.8	.130923	-.347062	-.404703 - 1	.437844	1 -.451820 - 1	.410183	-.191621
6.0	.130416	-.371638	-.435778 - 1	.439568	1 -.483979 - 1	.436803	-.191954
6.2	.129935	-.397021	-.468126 - 1	.441176	1 -.517378 - 1	.464221	-.192274

Z = 57, A = 139

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁			
.4	.207065	2	-.690163		-.125014	-.325412	-.402453		.236480	1	-.187401	1	
.6	.146439	2	-.103482	1	-.187971	-.128317	-.499867		.292845	1	-.192840	1	
.8	.118320	2	-.142178	1	-.259192	-.440748 - 1	-.588995		.343745	1	-.215067	1	
1.0	.102717	2	-.183570	1	-.336053	.421026 - 2	-.674715		.392028	1	-.237726	1	
1.2	.930044	1	-.226527	1	-.416608	.360409 - 1	-.758897		.438788	1	-.258235	1	
1.4	.864381	1	-.270312	1	-.499585	.588043 - 1	-.842361		.484510	1	-.276275	1	
1.6	.817120	1	-.314467	1	-.584188	.759722 - 1	-.925519		.529445	1	-.292049	1	
1.8	.781405	1	-.358710	1	-.669923	.894152 - 1	-.100860	1	.573738	1	-.305868	1	
2.0	.753349	1	-.402870	1	-.756486	.100240	-.109175	1	.617479	1	-.318032	1	
2.2	.730610	1	-.446844	1	-.843689	.109149	-.117506	1	.660733	1	-.328800	1	
2.4	.711708	1	-.490569	1	-.931414	.116610	-.125859	1	.703542	1	-.338391	1	
2.6	.695662	1	-.534008	1	-.101959	1	.122947	-.134238	1	.745940	1	-.346984	1
2.8	.681803	1	-.577141	1	-.110817	1	.128396	-.142647	1	.787954	1	-.354727	1
3.0	.669656	1	-.619957	1	-.119713	1	.133128	-.151088	1	.829604	1	-.361742	1
3.2	.658878	1	-.662452	1	-.128645	1	.137273	-.159563	1	.870907	1	-.368129	1
3.4	.649214	1	-.704627	1	-.137613	1	.140932	-.168074	1	.911880	1	-.373972	1
3.6	.640472	1	-.746483	1	-.146616	1	.144183	-.176622	1	.952533	1	-.379341	1
3.8	.632501	1	-.788026	1	-.155653	1	.147088	-.185207	1	.992878	1	-.384205	1
4.0	.625184	1	-.829259	1	-.164726	1	.149697	-.193831	1	.103292	2	-.388884	1
4.2	.618427	1	-.870190	1	-.173835	1	.152051	-.202494	1	.107268	2	-.393149	1
4.4	.612156	1	-.910823	1	-.182979	1	.154184	-.211197	1	.111216	2	-.397129	1
4.6	.606309	1	-.951165	1	-.192159	1	.156122	-.219940	1	.115136	2	-.400852	1
4.8	.600834	1	-.991222	1	-.201375	1	.157890	-.228724	1	.119029	2	-.404348	1
5.0	.595689	1	-.103100	2	-.210628	1	.159507	-.237549	1	.122897	2	-.407639	1
5.2	.590839	1	-.107050	2	-.219918	1	.160990	-.246415	1	.126738	2	-.410746	1
5.4	.586252	1	-.110973	2	-.229245	1	.162352	-.255323	1	.130555	2	-.413686	1
5.6	.581903	1	-.114870	2	-.238610	1	.163607	-.264272	1	.134347	2	-.416476	1
5.8	.577769	1	-.118742	2	-.248013	1	.164765	-.273264	1	.138115	2	-.419130	1
6.0	.573831	1	-.122587	2	-.257453	1	.165835	-.282297	1	.141859	2	-.421660	1
6.2	.570072	1	-.126408	2	-.266932	1	.166824	-.291372	1	.145580	2	-.424076	1

Z = 57, A = 139

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.793927	-.138325 - 2	-.141903 - 3	.699447	-.605353 - 3	.630055 - 2	-.521830
.6	.411188	-.296732 - 2	-.305284 - 3	.132145	1 -.964892 - 3	.100119 - 1	-.324885
.8	.291806	-.537645 - 2	-.555175 - 3	.180903	1 -.142033 - 2	.146800 - 1	-.256013
1.0	.238449	-.867280 - 2	-.899391 - 3	.220547	1 -.197279 - 2	.202974 - 1	-.224285
1.2	.209524	-.128836 - 1	-.134236 - 2	.252951	1 -.262280 - 2	.268501 - 1	-.207779
1.4	.191830	-.180176 - 1	-.188674 - 2	.279531	1 -.337103 - 2	.343258 - 1	-.198628
1.6	.180065	-.240750 - 1	-.253431 - 2	.301461	1 -.421836 - 2	.427145 - 1	-.193390
1.8	.171748	-.310520 - 1	-.328648 - 2	.319691	1 -.516585 - 2	.520083 - 1	-.190376
2.0	.165583	-.389433 - 1	-.414450 - 2	.334976	1 -.621464 - 2	.622005 - 1	-.188680
2.2	.160838	-.477430 - 1	-.510957 - 2	.347905	1 -.736593 - 2	.732850 - 1	-.187795
2.4	.157072	-.574453 - 1	-.618285 - 2	.358937	1 -.862098 - 2	.852566 - 1	-.187417
2.6	.154007	-.680444 - 1	-.736552 - 2	.368429	1 -.990107 - 2	.981103 - 1	-.187362
2.8	.151459	-.795349 - 1	-.865879 - 2	.376660	1 -.114475 - 1	.111841	-.187514
3.0	.149301	-.919115 - 1	-.100639 - 1	.383852	1 -.130215 - 1	.126446	-.187798
3.2	.147446	-.105169	-.115820 - 1	.390177	1 -.147045 - 1	.141918	-.188165
3.4	.145829	-.119304	-.132143 - 1	.395777	1 -.164977 - 1	.158256	-.188582
3.6	.144403	-.134310	-.149622 - 1	.400763	1 -.184025 - 1	.175454	-.189026
3.8	.143133	-.150183	-.168268 - 1	.405227	1 -.204202 - 1	.193509	-.189484
4.0	.141992	-.166920	-.188095 - 1	.409243	1 -.225521 - 1	.212418	-.189945
4.2	.140959	-.184516	-.209115 - 1	.412873	1 -.247995 - 1	.232175	-.190402
4.4	.140016	-.202968	-.231341 - 1	.416168	1 -.271638 - 1	.252779	-.190851
4.6	.139151	-.222270	-.254785 - 1	.419171	1 -.296463 - 1	.274225	-.191290
4.8	.138353	-.242421	-.279460 - 1	.421918	1 -.322482 - 1	.296509	-.191715
5.0	.137612	-.263415	-.305380 - 1	.424439	1 -.349710 - 1	.319629	-.192126
5.2	.136922	-.285250	-.332557 - 1	.426760	1 -.378159 - 1	.343582	-.192523
5.4	.136276	-.307921	-.361004 - 1	.428904	1 -.407842 - 1	.368363	-.192905
5.6	.135670	-.331426	-.390733 - 1	.430889	1 -.438773 - 1	.393969	-.193273
5.8	.135099	-.355761	-.421758 - 1	.432733	1 -.470964 - 1	.420398	-.193626
6.0	.134559	-.380922	-.454091 - 1	.434449	1 -.504429 - 1	.447646	-.193966
6.2	.134048	-.406907	-.487745 - 1	.436050	1 -.539180 - 1	.475710	-.194292

Z = 58, A = 140

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.218492	2	-.714965		-.131747	-.329089	-.419892		.242311	1	-.185011	1
.6	.154386	2	-.106784	1	-.197319	-.127129	-.521289		.299941	1	-.188519	1
.8	.124592	2	-.146332	1	-.271358	-.411637 - 1	-.613850		.351872	1	-.209536	1
1.0	.108028	2	-.188586	1	-.351162	.804143 - 2	-.702725		.401056	1	-.231216	1
1.2	.977016	1	-.232402	1	-.434725	.404632 - 1	-.789910		.448642	1	-.250892	1
1.4	.907105	1	-.277033	1	-.520734	.636464 - 1	-.876284		.495143	1	-.268211	1
1.6	.856725	1	-.322015	1	-.608368	.811313 - 1	-.962288		.540820	1	-.283353	1
1.8	.818611	1	-.367063	1	-.697119	.948232 - 1	-.104817	1	.585827	1	-.296615	1
2.0	.788640	1	-.412006	1	-.786676	.105849	-.113408	1	.630258	1	-.308283	1
2.2	.764329	1	-.456740	1	-.876845	.114924	-.122011	1	.674178	1	-.318608	1
2.4	.744103	1	-.501203	1	-.967509	.122524	-.130634	1	.717635	1	-.327801	1
2.6	.726923	1	-.545359	1	-.105859	1 .128980	-.139280	1	.760662	1	-.336035	1
2.8	.712074	1	-.589188	1	-.115006	1 .134531	-.147953	1	.803287	1	-.343452	1
3.0	.699054	1	-.632680	1	-.124187	1 .139351	-.156657	1	.845532	1	-.350170	1
3.2	.687496	1	-.675832	1	-.133401	1 .143573	-.165392	1	.887415	1	-.356285	1
3.4	.677130	1	-.718646	1	-.142649	1 .147299	-.174161	1	.928951	1	-.361878	1
3.6	.667748	1	-.761124	1	-.151929	1 .150610	-.182964	1	.970154	1	-.367017	1
3.8	.659193	1	-.803271	1	-.161242	1 .153567	-.191804	1	.101103	2	-.371758	1
4.0	.651337	1	-.845094	1	-.170588	1 .156224	-.200680	1	.105160	2	-.376149	1
4.2	.644083	1	-.886598	1	-.179966	1 .158620	-.209594	1	.109187	2	-.380231	1
4.4	.637349	1	-.927790	1	-.189379	1 .160789	-.218546	1	.113184	2	-.384038	1
4.6	.631069	1	-.968677	1	-.198825	1 .162762	-.227537	1	.117153	2	-.387602	1
4.8	.625189	1	-.100926	2	-.208306	1 .164560	-.236567	1	.121094	2	-.390947	1
5.0	.619663	1	-.104956	2	-.217821	1 .166204	-.245637	1	.125007	2	-.394097	1
5.2	.614452	1	-.108957	2	-.227371	1 .167711	-.254746	1	.128894	2	-.397071	1
5.4	.609525	1	-.112929	2	-.236957	1 .169095	-.263896	1	.132754	2	-.399886	1
5.6	.604854	1	-.116874	2	-.246578	1 .170370	-.273086	1	.136589	2	-.402558	1
5.8	.600413	1	-.120792	2	-.256236	1 .171545	-.282316	1	.140399	2	-.405099	1
6.0	.596184	1	-.124684	2	-.265930	1 .172630	-.291587	1	.144184	2	-.407522	1
6.2	.592146	1	-.128549	2	-.275660	1 .173634	-.300898	1	.147945	2	-.409837	1

Z = 58, A = 140

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.840519	-.143187 - 2	-.149362 - 3	.675707	-.635134 - 3	.649502 - 2	-.533291
.6	.432366	-.305548 - 2	-.319628 - 3	.129415	1 -.100888 - 2	.102859 - 1	-.330041
.8	.305510	-.551982 - 2	-.579516 - 3	.177764	1 -.148179 - 2	.150492 - 1	-.259402
1.0	.248936	-.888779 - 2	-.937054 - 3	.217066	1 -.205509 - 2	.207782 - 1	-.226935
1.2	.218307	-.131868 - 1	-.139678 - 2	.249198	1 -.272932 - 2	.274590 - 1	-.210063
1.4	.199585	-.184256 - 1	-.196138 - 2	.275567	1 -.350515 - 2	.350789 - 1	-.200713
1.6	.187141	-.246041 - 1	-.263267 - 2	.297332	1 -.438346 - 2	.436278 - 1	-.195364
1.8	.178344	-.317184 - 1	-.341207 - 2	.315433	1 -.536529 - 2	.530974 - 1	-.192285
2.0	.171823	-.397628 - 1	-.430081 - 2	.330615	1 -.645178 - 2	.634807 - 1	-.190553
2.2	.166803	-.487311 - 1	-.530009 - 2	.343460	1 -.764413 - 2	.747714 - 1	-.189647
2.4	.162818	-.586173 - 1	-.641109 - 2	.354424	1 -.894361 - 2	.869640 - 1	-.189260
2.6	.159574	-.694154 - 1	-.763497 - 2	.363860	1 -.103515 - 1	.100053	-.189202
2.8	.156875	-.811198 - 1	-.897294 - 2	.372044	1 -.118691 - 1	.114034	-.189356
3.0	.154589	-.937249 - 1	-.104262 - 1	.379196	1 -.134976 - 1	.128903	-.189644
3.2	.152623	-.107226	-.119960 - 1	.385488	1 -.152385 - 1	.144654	-.190017
3.4	.150909	-.121617	-.136836 - 1	.391059	1 -.170931 - 1	.161283	-.190440
3.6	.149397	-.136894	-.154902 - 1	.396020	1 -.190625 - 1	.178787	-.190893
3.8	.148050	-.153052	-.174170 - 1	.400462	1 -.211483 - 1	.197161	-.191358
4.0	.146839	-.170088	-.194655 - 1	.404458	1 -.233517 - 1	.216401	-.191827
4.2	.145742	-.187995	-.216367 - 1	.408071	1 -.256741 - 1	.236504	-.192293
4.4	.144741	-.206772	-.239321 - 1	.411351	1 -.281167 - 1	.257465	-.192750
4.6	.143822	-.226413	-.263528 - 1	.414340	1 -.306810 - 1	.279282	-.193196
4.8	.142974	-.246914	-.289003 - 1	.417075	1 -.333682 - 1	.301950	-.193629
5.0	.142187	-.268272	-.315757 - 1	.419585	1 -.361796 - 1	.325466	-.194048
5.2	.141453	-.290483	-.343803 - 1	.421896	1 -.391167 - 1	.349826	-.194452
5.4	.140767	-.313544	-.373155 - 1	.424030	1 -.421806 - 1	.375027	-.194841
5.6	.140122	-.337450	-.403826 - 1	.426007	1 -.453728 - 1	.401066	-.195215
5.8	.139515	-.362198	-.435828 - 1	.427843	1 -.486945 - 1	.427939	-.195575
6.0	.138941	-.387785	-.469174 - 1	.429552	1 -.521471 - 1	.455643	-.195920
6.2	.138397	-.414208	-.503876 - 1	.431147	1 -.557318 - 1	.484175	-.196252

Z = 59, A = 141

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.230622	2	-.740753		-.138825		-.332666		-.438004		.248310	1	-.182693	1
.6	.162820	2	-.110213	1	-.207117		-.125788		-.543536		.307244	1	-.184322	1
.8	.131246	2	-.150637	1	-.284079		-.380887	- 1	-.639655		.360235	1	-.204176	1
1.0	.113659	2	-.193779	1	-.366933		.120412	- 1	-.731794		.410347	1	-.224920	1
1.2	.102677	2	-.238478	1	-.453608		.450570	- 1	-.822079		.458783	1	-.243800	1
1.4	.952325	1	-.283977	1	-.542751		.686624	- 1	-.911452		.506080	1	-.260430	1
1.6	.898611	1	-.329806	1	-.633514		.864659	- 1	-.100039	1	.552518	1	-.274971	1
1.8	.857929	1	-.375679	1	-.725376		.100408		-.108915	1	.598253	1	-.287702	1
2.0	.825909	1	-.421423	1	-.818017		.111637		-.117789	1	.643388	1	-.298899	1
2.2	.799912	1	-.466935	1	-.911242		.120879		-.126673	1	.687989	1	-.308804	1
2.4	.778268	1	-.512151	1	-.100493	1	.128619		-.135572	1	.732105	1	-.317619	1
2.6	.759870	1	-.557038	1	-.109901	1	.135195		-.144492	1	.775772	1	-.325512	1
2.8	.743961	1	-.601577	1	-.119343	1	.140847		-.153437	1	.819019	1	-.332621	1
3.0	.730004	1	-.645758	1	-.128817	1	.145756		-.162409	1	.861869	1	-.339057	1
3.2	.717609	1	-.689580	1	-.138322	1	.150056		-.171410	1	.904339	1	-.344914	1
3.4	.706489	1	-.733044	1	-.147857	1	.153850		-.180443	1	.946448	1	-.350271	1
3.6	.696422	1	-.776154	1	-.157421	1	.157220		-.189509	1	.988207	1	-.355193	1
3.8	.687239	1	-.818916	1	-.167016	1	.160231		-.198609	1	.102963	2	-.359732	1
4.0	.678807	1	-.861336	1	-.176641	1	.162935		-.207743	1	.107073	2	-.363937	1
4.2	.671018	1	-.903423	1	-.186296	1	.165373		-.216913	1	.111151	2	-.367845	1
4.4	.663787	1	-.945181	1	-.195983	1	.167580		-.226120	1	.115199	2	-.371491	1
4.6	.657043	1	-.986619	1	-.205702	1	.169586		-.235364	1	.119216	2	-.374903	1
4.8	.650728	1	-.102774	2	-.215452	1	.171414		-.244645	1	.123205	2	-.378107	1
5.0	.644793	1	-.106856	2	-.225235	1	.173085		-.253964	1	.127165	2	-.381124	1
5.2	.639197	1	-.110908	2	-.235052	1	.174616		-.263321	1	.131097	2	-.383972	1
5.4	.633906	1	-.114930	2	-.244901	1	.176023		-.272717	1	.135002	2	-.386669	1
5.6	.628888	1	-.118924	2	-.254785	1	.177317		-.282152	1	.138880	2	-.389229	1
5.8	.624120	1	-.122889	2	-.264703	1	.178509		-.291625	1	.142732	2	-.391665	1
6.0	.619577	1	-.126827	2	-.274655	1	.179610		-.301138	1	.146558	2	-.393987	1
6.2	.615241	1	-.130737	2	-.284642	1	.180627		-.310690	1	.150359	2	-.396207	1

Z = 59, A = 141

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.889841	-.148223 - 2	-.157175 - 3	.652506	-.666167 - 3	.669530 - 2	-.544906
.6	.454688	-.314645 - 2	-.334582 - 3	.126766	1 -.105460 - 2	.105678 - 1	-.335183
.8	.319910	-.566747 - 2	-.604816 - 3	.174729	1 -.154555 - 2	.154285 - 1	-.262750
1.0	.259933	-.910889 - 2	-.976128 - 3	.213704	1 -.214036 - 2	.212718 - 1	-.229534
1.2	.227503	-.134983 - 1	-.145315 - 2	.245579	1 -.283957 - 2	.280836 - 1	-.212293
1.4	.207694	-.188445 - 1	-.203864 - 2	.271748	1 -.364386 - 2	.358512 - 1	-.202744
1.6	.194533	-.251470 - 1	-.273440 - 2	.293358	1 -.455410 - 2	.445639 - 1	-.197282
1.8	.185230	-.324017 - 1	-.354187 - 2	.311337	1 -.557130 - 2	.542133 - 1	-.194138
2.0	.178333	-.406027 - 1	-.446228 - 2	.326422	1 -.669662 - 2	.647920 - 1	-.192369
2.2	.173023	-.497435 - 1	-.549682 - 2	.339190	1 -.793127 - 2	.762935 - 1	-.191443
2.4	.168806	-.598178 - 1	-.664666 - 2	.350090	1 -.927648 - 2	.887119 - 1	-.191046
2.6	.165372	-.708194 - 1	-.791298 - 2	.359474	1 -.107335 - 1	.102042	-.190986
2.8	.162515	-.827423 - 1	-.929697 - 2	.367615	1 -.123038 - 1	.116278	-.191140
3.0	.160094	-.955808 - 1	-.107999 - 1	.374731	1 -.139884 - 1	.131416	-.191433
3.2	.158010	-.109329	-.124229 - 1	.380992	1 -.157889 - 1	.147451	-.191811
3.4	.156194	-.123983	-.141672 - 1	.386536	1 -.177065 - 1	.164378	-.192242
3.6	.154591	-.139537	-.160342 - 1	.391474	1 -.197425 - 1	.182194	-.192702
3.8	.153162	-.155986	-.180250 - 1	.395895	1 -.218983 - 1	.200893	-.193175
4.0	.151877	-.173326	-.201411 - 1	.399874	1 -.241752 - 1	.220472	-.193652
4.2	.150713	-.191552	-.223835 - 1	.403472	1 -.265746 - 1	.240927	-.194126
4.4	.149650	-.210660	-.247537 - 1	.406737	1 -.290977 - 1	.262254	-.194591
4.6	.148674	-.230646	-.272529 - 1	.409714	1 -.317460 - 1	.284448	-.195045
4.8	.147773	-.251505	-.298823 - 1	.412438	1 -.345207 - 1	.307507	-.195485
5.0	.146937	-.273235	-.326434 - 1	.414938	1 -.374232 - 1	.331426	-.195911
5.2	.146157	-.295830	-.355371 - 1	.417240	1 -.404549 - 1	.356203	-.196323
5.4	.145428	-.319287	-.385656 - 1	.419366	1 -.436170 - 1	.381832	-.196719
5.6	.144743	-.343602	-.417293 - 1	.421336	1 -.469109 - 1	.408312	-.197099
5.8	.144097	-.368772	-.450298 - 1	.423165	1 -.503379 - 1	.435638	-.197466
6.0	.143487	-.394792	-.484683 - 1	.424867	1 -.538994 - 1	.463806	-.197817
6.2	.142908	-.421661	-.520463 - 1	.426456	1 -.575966 - 1	.492814	-.198155

Z = 60, A = 142

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.243505	2	-.767571		-.146267		-.336140		-.456816		.254481	1	-.180444	1
.6	.171776	2	-.113772	1	-.217390		-.124291		-.566641		.314759	1	-.180242	1
.8	.138307	2	-.155100	1	-.297385		-.348469	- 1	-.666449		.368845	1	-.198979	1
1.0	.119631	2	-.199155	1	-.383398		.162125	- 1	-.761964		.419911	1	-.218825	1
1.2	.107950	2	-.244761	1	-.473294		.498256	- 1	-.855450		.469218	1	-.236945	1
1.4	.100021	2	-.291151	1	-.565675		.738556	- 1	-.947916		.517333	1	-.252919	1
1.6	.942928	1	-.337850	1	-.659668		.919799	- 1	-.103987	1	.564548	1	-.266886	1
1.8	.899498	1	-.384568	1	-.754739		.106175		-.113159	1	.611029	1	-.279112	1
2.0	.865281	1	-.431131	1	-.850560		.117607		-.122325	1	.656881	1	-.289861	1
2.2	.837478	1	-.477437	1	-.946931		.127018		-.131496	1	.702176	1	-.299366	1
2.4	.814313	1	-.523424	1	-.104373	1	.134899		-.140679	1	.746964	1	-.307823	1
2.6	.794610	1	-.569057	1	-.114088	1	.141595		-.149880	1	.791282	1	-.315393	1
2.8	.777562	1	-.614320	1	-.123835	1	.147351		-.159103	1	.835161	1	-.322208	1
3.0	.762599	1	-.659203	1	-.133610	1	.152349		-.168351	1	.878625	1	-.328378	1
3.2	.749307	1	-.703706	1	-.143412	1	.156726		-.177625	1	.921692	1	-.333992	1
3.4	.737377	1	-.747831	1	-.153242	1	.160589		-.186928	1	.964381	1	-.339125	1
3.6	.726575	1	-.791584	1	-.163098	1	.164020		-.196262	1	.100671	2	-.343840	1
3.8	.716719	1	-.834970	1	-.172981	1	.167084		-.205628	1	.104060	2	-.340190	1
4.0	.707667	1	-.877998	1	-.182892	1	.169835		-.215026	1	.109031	2	-.352218	1
4.2	.699305	1	-.920674	1	-.192831	1	.172315		-.224458	1	.113161	2	-.355963	1
4.4	.691541	1	-.963007	1	-.202799	1	.174560		-.233925	1	.117260	2	-.359456	1
4.6	.684299	1	-.100500	2	-.212795	1	.176600		-.243426	1	.121327	2	-.362725	1
4.8	.677518	1	-.104667	2	-.222822	1	.178458		-.252964	1	.125363	2	-.365795	1
5.0	.671144	1	-.108802	2	-.232879	1	.180156		-.262537	1	.129370	2	-.368686	1
5.2	.665135	1	-.112905	2	-.242967	1	.181711		-.272147	1	.133348	2	-.371417	1
5.4	.659452	1	-.116978	2	-.253086	1	.183139		-.281794	1	.137298	2	-.374002	1
5.6	.654065	1	-.121020	2	-.263237	1	.184452		-.291478	1	.141219	2	-.376457	1
5.8	.648944	1	-.125033	2	-.273420	1	.185662		-.301199	1	.145114	2	-.378792	1
6.0	.644066	1	-.129017	2	-.283636	1	.186778		-.310959	1	.148981	2	-.381021	1
6.2	.639411	1	-.132973	2	-.293884	1	.187809		-.320755	1	.152822	2	-.383151	1

Z = 60, A = 142

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.942054	-.153438 - 2	-.165357 - 3	.629817	-.698502 - 3	.690157 - 2	-.556680
.6	.478218	-.324035 - 2	-.350169 - 3	.124197	1 -.110212 - 2	.108577 - 1	-.340312
.8	.335044	-.581954 - 2	-.631115 - 3	.171792	1 -.161169 - 2	.158182 - 1	-.266056
1.0	.271465	-.933630 - 2	-.101667 - 2	.210458	1 -.222870 - 2	.217786 - 1	-.232084
1.2	.237132	-.138184 - 1	-.151157 - 2	.242089	1 -.295369 - 2	.287246 - 1	-.214469
1.4	.216176	-.192745 - 1	-.211860 - 2	.268069	1 -.378732 - 2	.366432 - 1	-.204720
1.6	.202257	-.257040 - 1	-.283961 - 2	.289532	1 -.473045 - 2	.455235 - 1	-.199144
1.8	.192419	-.331025 - 1	-.367603 - 2	.307396	1 -.578412 - 2	.553567 - 1	-.195934
2.0	.185126	-.414637 - 1	-.462908 - 2	.322390	1 -.694944 - 2	.661352 - 1	-.194128
2.2	.179509	-.507810 - 1	-.569995 - 2	.335086	1 -.822763 - 2	.778521 - 1	-.193181
2.4	.175048	-.610476 - 1	-.688981 - 2	.345928	1 -.961993 - 2	.905013 - 1	-.192774
2.6	.171414	-.722572 - 1	-.819983 - 2	.355263	1 -.111276 - 1	.104077	-.192711
2.8	.168388	-.844034 - 1	-.963120 - 2	.363365	1 -.127520 - 1	.118574	-.192867
3.0	.165824	-.974804 - 1	-.111851 - 1	.370446	1 -.144944 - 1	.133988	-.193163
3.2	.163617	-.111482	-.128629 - 1	.376679	1 -.163562 - 1	.150313	-.193548
3.4	.161692	-.126404	-.146657 - 1	.382199	1 -.183386 - 1	.167544	-.193985
3.6	.159992	-.142241	-.165948 - 1	.387116	1 -.204430 - 1	.185677	-.194453
3.8	.158477	-.158987	-.186514 - 1	.391519	1 -.226708 - 1	.204709	-.194934
4.0	.157114	-.176637	-.208369 - 1	.395482	1 -.250232 - 1	.224633	-.195419
4.2	.155879	-.195188	-.231525 - 1	.399065	1 -.275017 - 1	.245447	-.195901
4.4	.154751	-.214634	-.255996 - 1	.402319	1 -.301076 - 1	.267146	-.196374
4.6	.153715	-.234972	-.281794 - 1	.405285	1 -.328421 - 1	.289726	-.196836
4.8	.152758	-.256197	-.308931 - 1	.407998	1 -.357068 - 1	.313184	-.197284
5.0	.151869	-.278305	-.337423 - 1	.410489	1 -.387029 - 1	.337515	-.197717
5.2	.151041	-.301291	-.367280 - 1	.412783	1 -.418317 - 1	.362715	-.198136
5.4	.150266	-.325152	-.398517 - 1	.414902	1 -.450946 - 1	.388781	-.198538
5.6	.149538	-.349885	-.431146 - 1	.416865	1 -.484929 - 1	.415710	-.198926
5.8	.148852	-.375484	-.465180 - 1	.418688	1 -.520280 - 1	.443497	-.199299
6.0	.148203	-.401947	-.500633 - 1	.420385	1 -.557012 - 1	.472138	-.199656
6.2	.147588	-.429269	-.537517 - 1	.421968	1 -.595138 - 1	.501632	-.200000

Z = 61, A = 147

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.256699	2	-.794655	-.154021	-.339508	-.475869	.260555	1
.6	.180941	2	-.117348	1	-.228060	-.122636	-.590043	.322148
.8	.145524	2	-.159563	1	-.311174	-.314367	- 1	-.693588
1.0	.125725	2	-.204509	1	-.400433	.205571	- 1	-.792520
1.2	.113323	2	-.250996	1	-.493638	.547704	- 1	-.889248
1.4	.104891	2	-.298247	1	-.589347	.792770	- 1	-.984847
1.6	.987936	1	-.345781	1	-.686663	.976737	- 1	-.107986
1.8	.941651	1	-.393308	1	-.785037	.112122	-.117459	1
2.0	.905151	1	-.440652	1	-.884133	.123759	-.126921	1
2.2	.875468	1	-.487711	1	-.983749	.133338	-.136385	1
2.4	.850719	1	-.534424	1	-.108376	1	.141361	-.145857
2.6	.829655	1	-.580758	1	-.118409	1	.148176	-.155345
2.8	.811421	1	-.626695	1	-.128471	1	.154035	-.164852
3.0	.795410	1	-.672230	1	-.138558	1	.159122	-.174382
3.2	.781181	1	-.717362	1	-.148669	1	.163576	-.183936
3.4	.768406	1	-.762094	1	-.158804	1	.167506	-.193517
3.6	.756837	1	-.806433	1	-.168964	1	.170996	-.203126
3.8	.746279	1	-.850386	1	-.179148	1	.174112	-.212766
4.0	.736580	1	-.893961	1	-.189357	1	.176908	-.222436
4.2	.727620	1	-.937167	1	-.199592	1	.179429	-.232139
4.4	.719300	1	-.980011	1	-.209853	1	.181709	-.241874
4.6	.711539	1	-.102250	2	-.220141	1	.183780	-.251644
4.8	.704271	1	-.106465	2	-.230457	1	.185666	-.261447
5.0	.697441	1	-.110646	2	-.240802	1	.187389	-.271285
5.2	.691001	1	-.114794	2	-.251175	1	.188966	-.281158
5.4	.684911	1	-.118910	2	-.261578	1	.190412	-.291067
5.6	.679137	1	-.122994	2	-.272010	1	.191742	-.301011
5.8	.673649	1	-.127047	2	-.282474	1	.192966	-.310992
6.0	.668423	1	-.131070	2	-.292968	1	.194094	-.321009
6.2	.663434	1	-.135063	2	-.303493	1	.195136	-.331062

Z = 61, A = 147

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.996412	-.160228 - 2	-.175548 - 3	.607609	-.738604 - 3	.717616 - 2	-.568618
.6	.502561	-.336643 - 2	-.369844 - 3	.121702	1 -.116163 - 2	.112533 - 1	-.345427
.8	.350628	-.602838 - 2	-.664626 - 3	.168950	1 -.169513 - 2	.163603 - 1	-.269320
1.0	.283301	-.965376 - 2	-.106868 - 2	.207321	1 -.234076 - 2	.224935 - 1	-.234582
1.2	.246990	-.142708 - 1	-.158693 - 2	.238720	1 -.309911 - 2	.296385 - 1	-.216592
1.4	.224841	-.198880 - 1	-.222224 - 2	.264521	1 -.397084 - 2	.377818 - 1	-.206639
1.6	.210136	-.265047 - 1	-.297649 - 2	.285846	1 -.495682 - 2	.469122 - 1	-.200949
1.8	.199743	-.341159 - 1	-.385114 - 2	.303603	1 -.605810 - 2	.570204 - 1	-.197673
2.0	.192038	-.427150 - 1	-.484745 - 2	.318513	1 -.727583 - 2	.680982 - 1	-.195828
2.2	.186102	-.522951 - 1	-.596661 - 2	.331141	1 -.861124 - 2	.801386 - 1	-.194861
2.4	.181388	-.628491 - 1	-.720983 - 2	.341928	1 -.100656 - 1	.931351 - 1	-.194445
2.6	.177545	-.743701 - 1	-.857828 - 2	.351220	1 -.116402 - 1	.107082	-.194378
2.8	.174346	-.868515 - 1	-.100732 - 1	.359284	1 -.133364 - 1	.121972	-.194535
3.0	.171633	-.100287	-.116958 - 1	.366335	1 -.151555 - 1	.137802	-.194836
3.2	.169297	-.114671	-.134473 - 1	.372542	1 -.170989 - 1	.154566	-.195226
3.4	.167259	-.129997	-.153291 - 1	.378040	1 -.191679 - 1	.172259	-.195670
3.6	.165459	-.146261	-.173424 - 1	.382938	1 -.213639 - 1	.190875	-.196145
3.8	.163854	-.163456	-.194884 - 1	.387325	1 -.236884 - 1	.210411	-.196635
4.0	.162410	-.181578	-.217686 - 1	.391274	1 -.261425 - 1	.230862	-.197128
4.2	.161100	-.200622	-.241842 - 1	.394844	1 -.287279 - 1	.252223	-.197618
4.4	.159904	-.220583	-.267365 - 1	.398087	1 -.314457 - 1	.274491	-.198099
4.6	.158805	-.241457	-.294269 - 1	.401043	1 -.342974 - 1	.297660	-.198568
4.8	.157790	-.263238	-.322566 - 1	.403747	1 -.372843 - 1	.321727	-.199024
5.0	.156848	-.285924	-.352271 - 1	.406230	1 -.404080 - 1	.346687	-.199465
5.2	.155969	-.309508	-.383397 - 1	.408517	1 -.436696 - 1	.372537	-.199890
5.4	.155146	-.333988	-.415956 - 1	.410630	1 -.470706 - 1	.399273	-.200300
5.6	.154373	-.359359	-.449963 - 1	.412587	1 -.506123 - 1	.426891	-.200694
5.8	.153644	-.385617	-.485430 - 1	.414404	1 -.542962 - 1	.455387	-.201073
6.0	.152955	-.412757	-.522371 - 1	.416096	1 -.581235 - 1	.484757	-.201437
6.2	.152302	-.440778	-.560800 - 1	.417675	1 -.620957 - 1	.514997	-.201787

Z = 62, A = 150

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.270947	2	-.823198		-.162199	-.342765	-.495880		.266935	1	-.176133	1
.6	.190837	2	-.121118	1	-.239284	-.120820	-.614618		.329916	1	-.172410	1
.8	.153317	2	-.164267	1	-.325645	-.278535 - 1	-.722074		.386194	1	-.189040	1
1.0	.132303	2	-.210153	1	-.418277	.250803 - 1	-.824574		.439159	1	-.207204	1
1.2	.119119	2	-.257570	1	-.514910	.598977 - 1	-.924675		.490186	1	-.223904	1
1.4	.110144	2	-.305729	1	-.614063	.047042 - 1	-.102353	1	.539903	1	-.238664	1
1.6	.103645	2	-.354146	1	-.714809	.103556	-.112171	1	.588632	1	-.251555	1
1.8	.987072	1	-.402527	1	-.816587	.118259	-.121954	1	.636556	1	-.262844	1
2.0	.948093	1	-.450698	1	-.919053	.130104	-.131722	1	.683792	1	-.272764	1
2.2	.916368	1	-.498554	1	-.102200	1 .139854	-.141487	1	.730416	1	-.281532	1
2.4	.809098	1	-.546036	1	-.112530	1 .148020	-.151257	1	.776484	1	-.289328	1
2.6	.867357	1	-.593113	1	-.122889	1 .154956	-.161039	1	.822038	1	-.296303	1
2.8	.847833	1	-.639768	1	-.133272	1 .160919	-.170837	1	.867110	1	-.302581	1
3.0	.830683	1	-.685996	1	-.143677	1 .166096	-.180654	1	.911725	1	-.308262	1
3.2	.815437	1	-.731799	1	-.154102	1 .170628	-.190494	1	.955907	1	-.313431	1
3.4	.801745	1	-.777179	1	-.164549	1 .174627	-.200358	1	.999674	1	-.318156	1
3.6	.789342	1	-.822145	1	-.175016	1 .178176	-.210248	1	.104304	2	-.322497	1
3.8	.778021	1	-.866705	1	-.185505	1 .181345	-.220165	1	.108602	2	-.326501	1
4.0	.767621	1	-.910867	1	-.196015	1 .184188	-.230112	1	.112863	2	-.330210	1
4.2	.758011	1	-.954641	1	-.206549	1 .186750	-.240088	1	.117088	2	-.333658	1
4.4	.749087	1	-.998036	1	-.217106	1 .189068	-.250095	1	.121278	2	-.336876	1
4.6	.740763	1	-.104106	2	-.227688	1 .191171	-.260134	1	.125434	2	-.339889	1
4.8	.732968	1	-.108372	2	-.238295	1 .193086	-.270205	1	.129556	2	-.342720	1
5.0	.725641	1	-.112604	2	-.248928	1 .194834	-.280309	1	.133646	2	-.345387	1
5.2	.718734	1	-.116800	2	-.259588	1 .196433	-.290447	1	.137705	2	-.347907	1
5.4	.712202	1	-.120963	2	-.270275	1 .197899	-.300618	1	.141732	2	-.350295	1
5.6	.706009	1	-.125093	2	-.280989	1 .199246	-.310823	1	.145729	2	-.352563	1
5.8	.700124	1	-.129190	2	-.291732	1 .200485	-.321063	1	.149696	2	-.354723	1
6.0	.694519	1	-.133256	2	-.302503	1 .201627	-.331338	1	.153634	2	-.356786	1
6.2	.689170	1	-.137291	2	-.313304	1 .202679	-.341648	1	.157543	2	-.358759	1

$Z = 62, A = 150$

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.105437	1 -.166562 - 2	-.185422 - 3	.585857	-.777231 - 3	.742764 - 2	-.580726
.6	.528435	-.348177 - 2	-.388659 - 3	.119278	1 -.121849 - 2	.116108 - 1	-.350529
.8	.367157	-.621688 - 2	-.696395 - 3	.166197	1 -.177437 - 2	.168452 - 1	-.272541
1.0	.295837	-.993759 - 2	-.111770 - 2	.204289	1 -.244669 - 2	.231281 - 1	-.237030
1.2	.257419	-.146724 - 1	-.165763 - 2	.235468	1 -.323606 - 2	.304451 - 1	-.218659
1.4	.234002	-.204298 - 1	-.231911 - 2	.261100	1 -.414317 - 2	.387823 - 1	-.208502
1.6	.218460	-.272087 - 1	-.310407 - 2	.282295	1 -.516887 - 2	.481281 - 1	-.202696
1.8	.207477	-.350040 - 1	-.401396 - 2	.299951	1 -.631421 - 2	.584727 - 1	-.199354
2.0	.199333	-.438086 - 1	-.505006 - 2	.314782	1 -.758033 - 2	.698077 - 1	-.197471
2.2	.193059	-.536152 - 1	-.621356 - 2	.327348	1 -.896849 - 2	.821257 - 1	-.196483
2.4	.188074	-.644164 - 1	-.750567 - 2	.338085	1 -.104799 - 1	.954197 - 1	-.196056
2.6	.184010	-.762049 - 1	-.892758 - 2	.347336	1 -.121160 - 1	.109683	-.195986
2.8	.180625	-.889739 - 1	-.104805 - 1	.355367	1 -.138781 - 1	.124911	-.196145
3.0	.177755	-.102717	-.121657 - 1	.362390	1 -.157675 - 1	.141097	-.196449
3.2	.175282	-.117428	-.139845 - 1	.368574	1 -.177855 - 1	.158235	-.196845
3.4	.173123	-.133100	-.159380 - 1	.374051	1 -.199337 - 1	.176321	-.197296
3.6	.171216	-.149728	-.180277 - 1	.378932	1 -.222133 - 1	.195349	-.197779
3.8	.169515	-.167307	-.202548 - 1	.383305	1 -.246257 - 1	.215314	-.198276
4.0	.167985	-.185831	-.226206 - 1	.387241	1 -.271724 - 1	.236213	-.198778
4.2	.166596	-.205295	-.251265 - 1	.390800	1 -.298547 - 1	.258039	-.199275
4.4	.165328	-.225694	-.277739 - 1	.394033	1 -.326740 - 1	.280789	-.199764
4.6	.164162	-.247023	-.305639 - 1	.396980	1 -.356318 - 1	.304458	-.200242
4.8	.163085	-.269278	-.334981 - 1	.399677	1 -.387294 - 1	.329042	-.200705
5.0	.162085	-.292453	-.365777 - 1	.402153	1 -.419682 - 1	.354536	-.201153
5.2	.161152	-.316546	-.398041 - 1	.404434	1 -.453496 - 1	.380937	-.201586
5.4	.160279	-.341550	-.431787 - 1	.406541	1 -.488750 - 1	.408240	-.202002
5.6	.159458	-.367462	-.467027 - 1	.408493	1 -.525458 - 1	.436441	-.202403
5.8	.158684	-.394277	-.503776 - 1	.410306	1 -.563633 - 1	.465535	-.202789
6.0	.157952	-.421992	-.542047 - 1	.411994	1 -.603290 - 1	.495521	-.203159
6.2	.157258	-.450602	-.581854 - 1	.413569	1 -.644443 - 1	.526392	-.203514

Z = 63, A = 153

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.286076	2	-.852866		-.170791	-.345908	-.516652		.273496	1	-.174060	1
.6	.201343	2	-.125029	1	-.251044	-.118840	-.640121		.337905	1	-.168644	1
.8	.161584	2	-.169141	1	-.340772	-.240950	- 1	-.751628	.395342	1	-.184280	1
1.0	.139277	2	-.215993	1	-.436894	.297847	- 1	-.857816	.449309	1	-.201655	1
1.2	.125259	2	-.264363	1	-.537073	.652103	- 1	-.961396	.501245	1	-.217691	1
1.4	.115704	2	-.313454	1	-.639780	.905297	- 1	-.106360	.551805	1	-.231869	1
1.6	.108776	2	-.362775	1	-.744064	.109629	-.116504	1	.601330	1	-.244273	1
1.8	.103507	2	-.412030	1	-.849348	.124590	-.126606	1	.650013	1	-.255126	1
2.0	.993435	1	-.461043	1	-.955282	.136643	-.136687	1	.697974	1	-.264661	1
2.2	.959523	1	-.509713	1	-.106165	.146565	-.146761	1	.745295	1	-.273086	1
2.4	.931209	1	-.557979	1	-.116834	.154876	-.156836	1	.792035	1	-.280576	1
2.6	.907083	1	-.605813	1	-.127527	.161935	-.166919	1	.838235	1	-.287276	1
2.8	.886178	1	-.653198	1	-.138239	.168003	-.177015	1	.883932	1	-.293304	1
3.0	.867806	1	-.700131	1	-.148970	.173270	-.187126	1	.929151	1	-.298759	1
3.2	.851469	1	-.746613	1	-.159718	.177882	-.197257	1	.973916	1	-.303722	1
3.4	.836794	1	-.792651	1	-.170482	.181949	-.207410	1	.101825	2	-.308258	1
3.6	.823496	1	-.838252	1	-.181264	.185559	-.217586	1	.106216	2	-.312425	1
3.8	.811358	1	-.883425	1	-.192064	.188781	-.227787	1	.110567	2	-.316270	1
4.0	.800205	1	-.928182	1	-.202883	.191671	-.238015	1	.114879	2	-.319831	1
4.2	.789899	1	-.972530	1	-.213722	.194274	-.248270	1	.119154	2	-.323143	1
4.4	.780329	1	-.101648	2	-.224582	.196628	-.258554	1	.123392	2	-.326233	1
4.6	.771401	1	-.106004	2	-.235463	.198764	-.268868	1	.127594	2	-.329128	1
4.8	.763040	1	-.110323	2	-.246366	.200707	-.279211	1	.131761	2	-.331848	1
5.0	.755182	1	-.114604	2	-.257293	.202480	-.289586	1	.135895	2	-.334411	1
5.2	.747774	1	-.118850	2	-.268244	.204102	-.299992	1	.139995	2	-.336833	1
5.4	.740769	1	-.123060	2	-.279220	.205588	-.310429	1	.144064	2	-.339129	1
5.6	.734128	1	-.127236	2	-.290221	.206952	-.320900	1	.148100	2	-.341311	1
5.8	.727817	1	-.131377	2	-.301248	.208205	-.331403	1	.152106	2	-.343390	1
6.0	.721807	1	-.135486	2	-.312301	.209359	-.341938	1	.156081	2	-.345375	1
6.2	.716072	1	-.139563	2	-.323382	.210423	-.352508	1	.160026	2	-.347275	1

Z = 63, A = 153

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.111568	1 -.173127 - 2	-.195783 - 3	.564537	-.817548 - 3	.768679 - 2	-.593009
.6	.555698	-.360084 - 2	-.408307 - 3	.116923	1 -.127768 - 2	.119786 - 1	-.355617
.8	.384523	-.641098 - 2	-.729474 - 3	.163529	1 -.185670 - 2	.173433 - 1	-.275720
1.0	.308979	-.102294 - 1	-.116864 - 2	.201356	1 -.255661 - 2	.237793 - 1	-.239426
1.2	.268336	-.150847 - 1	-.173100 - 2	.232327	1 -.337804 - 2	.312721 - 1	-.220671
1.4	.243580	-.209855 - 1	-.241954 - 2	.257799	1 -.432168 - 2	.398073 - 1	-.210308
1.6	.227154	-.279304 - 1	-.323622 - 2	.278872	1 -.538837 - 2	.493730 - 1	-.204386
1.8	.215548	-.359137 - 1	-.418250 - 2	.296435	1 -.657916 - 2	.599590 - 1	-.200976
2.0	.206942	-.449282 - 1	-.525966 - 2	.311193	1 -.789521 - 2	.715564 - 1	-.199055
2.2	.200311	-.549660 - 1	-.646891 - 2	.323701	1 -.933775 - 2	.841574 - 1	-.198046
2.4	.195041	-.660195 - 1	-.781144 - 2	.334392	1 -.109081 - 1	.977548 - 1	-.197609
2.6	.190743	-.780810 - 1	-.928846 - 2	.343605	1 -.126075 - 1	.112342	-.197536
2.8	.187162	-.911434 - 1	-.109012 - 1	.351606	1 -.144374 - 1	.127913	-.197695
3.0	.184125	-.105200	-.126509 - 1	.358604	1 -.163992 - 1	.144461	-.198004
3.2	.181507	-.120244	-.145389 - 1	.364766	1 -.184942 - 1	.161981	-.198405
3.4	.179221	-.136268	-.165664 - 1	.370226	1 -.207237 - 1	.180467	-.198863
3.6	.177202	-.153269	-.187347 - 1	.375092	1 -.230893 - 1	.199914	-.199353
3.8	.175399	-.171238	-.210452 - 1	.379452	1 -.255924 - 1	.220317	-.199859
4.0	.173777	-.190171	-.234992 - 1	.383377	1 -.282342 - 1	.241671	-.200368
4.2	.172305	-.210063	-.260981 - 1	.386926	1 -.310163 - 1	.263971	-.200874
4.4	.170960	-.230908	-.288431 - 1	.390151	1 -.339401 - 1	.287212	-.201371
4.6	.169724	-.252701	-.317357 - 1	.393090	1 -.370069 - 1	.311390	-.201856
4.8	.168581	-.275437	-.347772 - 1	.395781	1 -.402182 - 1	.336500	-.202327
5.0	.167520	-.299112	-.379690 - 1	.398251	1 -.435754 - 1	.362537	-.202782
5.2	.166530	-.323720	-.413124 - 1	.400527	1 -.470799 - 1	.389497	-.203222
5.4	.165603	-.349257	-.448089 - 1	.402629	1 -.507331 - 1	.417376	-.203645
5.6	.164732	-.375720	-.484597 - 1	.404576	1 -.545364 - 1	.446170	-.204053
5.8	.163910	-.403102	-.522663 - 1	.406385	1 -.584913 - 1	.475874	-.204445
6.0	.163133	-.431400	-.562300 - 1	.408070	1 -.625991 - 1	.506484	-.204821
6.2	.162397	-.460610	-.603521 - 1	.409642	1 -.668613 - 1	.537996	-.205183

Z = 64, A = 155

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁			
.4	.302299	2	-.883940		-.179843	-.348934	-.538357		.280320	1	-.172036	1	
.6	.212605	2	-.129123	1	-.263401	-.116693	-.666765		.346216	1	-.164971	1	
.8	.170444	2	-.174238	1	-.356633	-.201576	- 1	-.782494	.404863	1	-.179651	1	
1.0	.146747	2	-.222097	1	-.456379	.346744	- 1	-.892514	.459878	1	-.196268	1	
1.2	.131832	2	-.271460	1	-.560232	.707127	- 1	-.999704	.512760	1	-.211667	1	
1.4	.121652	2	-.321520	1	-.666616	.964687	- 1	-.110537	1	.564200	1	-.225299	1
1.6	.114261	2	-.371780	1	-.774556	.115899		-.121018	1	.614554	1	-.237229	1
1.8	.108634	2	-.421944	1	-.883457	.131121		-.131449	1	.664026	1	-.247666	1
2.0	.104185	2	-.471834	1	-.992963	.143384		-.141854	1	.712743	1	-.256834	1
2.2	.100557	2	-.521349	1	-.110286	1	.153481	-.152245	1	.760790	1	-.264932	1
2.4	.975266	1	-.570432	1	-.121302	1	.161937	-.162633	1	.808228	1	-.272130	1
2.6	.949429	1	-.619051	1	-.132338	1	.169120	-.173025	1	.855103	1	-.278567	1
2.8	.927030	1	-.667195	1	-.143388	1	.175294	-.183425	1	.901449	1	-.284359	1
3.0	.907339	1	-.714861	1	-.154453	1	.180654	-.193839	1	.947297	1	-.289598	1
3.2	.889822	1	-.762051	1	-.165529	1	.185345	-.204260	1	.992670	1	-.294364	1
3.4	.874084	1	-.808772	1	-.176619	1	.189482	-.214715	1	.103759	2	-.298722	1
3.6	.859821	1	-.855034	1	-.187723	1	.193153	-.225183	1	.108207	2	-.302724	1
3.8	.846799	1	-.900848	1	-.198840	1	.196429	-.235674	1	.112613	2	-.306416	1
4.0	.834834	1	-.946223	1	-.209973	1	.199367	-.246188	1	.116979	2	-.309836	1
4.2	.823776	1	-.991170	1	-.221122	1	.202012	-.256726	1	.121305	2	-.313018	1
4.4	.813507	1	-.103570	2	-.232289	1	.204403	-.267292	1	.125593	2	-.315987	1
4.6	.803927	1	-.107983	2	-.243474	1	.206572	-.277884	1	.129844	2	-.318768	1
4.8	.794956	1	-.112356	2	-.254678	1	.208544	-.288504	1	.134059	2	-.321382	1
5.0	.786525	1	-.116690	2	-.265903	1	.210343	-.299152	1	.138238	2	-.323846	1
5.2	.778577	1	-.120986	2	-.277149	1	.211987	-.309830	1	.142383	2	-.326175	1
5.4	.771061	1	-.125246	2	-.288417	1	.213493	-.320538	1	.146494	2	-.328384	1
5.6	.763937	1	-.129470	2	-.299707	1	.214874	-.331275	1	.150572	2	-.330483	1
5.8	.757168	1	-.133658	2	-.311022	1	.216143	-.342044	1	.154618	2	-.332484	1
6.0	.750721	1	-.137812	2	-.322360	1	.217310	-.352843	1	.158633	2	-.334395	1
6.2	.744570	1	-.141932	2	-.333722	1	.218384	-.363674	1	.162616	2	-.336225	1

Z = 64, A = 155

P	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.118083	1	-.179570 - 2		-.206209 - 3		.543623		-.857886 - 3		.793784 - 2		-.605472
.6	.584565		-.371628 - 2		-.427902 - 3		.114632	1	-.133659 - 2		.123322 - 1		-.360691
.8	.402866		-.659757 - 2		-.762267 - 3		.160943	1	-.193832 - 2		.178191 - 1		-.278856
1.0	.322836		-.105081 - 1		-.121893 - 2		.198518	1	-.266523 - 2		.243984 - 1		-.241770
1.2	.279832		-.154769 - 1		-.180321 - 2		.229292	1	-.351800 - 2		.320554 - 1		-.222628
1.4	.253656		-.215123 - 1		-.251815 - 2		.254614	1	-.449730 - 2		.407754 - 1		-.212057
1.6	.236294		-.286125 - 1		-.336571 - 2		.275573	1	-.560396 - 2		.505461 - 1		-.206017
1.8	.224027		-.367717 - 1		-.434738 - 2		.293047	1	-.683903 - 2		.613568 - 1		-.202540
2.0	.214931		-.459821 - 1		-.546442 - 2		.307738	1	-.820365 - 2		.731984 - 1		-.200580
2.2	.207921		-.562356 - 1		-.671803 - 2		.320193	1	-.969905 - 2		.860625 - 1		-.199550
2.4	.202348		-.675240 - 1		-.810940 - 2		.330842	1	-.113265 - 1		.999417 - 1		-.199102
2.6	.197803		-.798396 - 1		-.963975 - 2		.340021	1	-.130874 - 1		.114829		-.199026
2.8	.194014		-.931746 - 1		-.113103 - 1		.347994	1	-.149831 - 1		.130718		-.199186
3.0	.190799		-.107522		-.131223 - 1		.354970	1	-.170149 - 1		.147602		-.199498
3.2	.188028		-.122875		-.150770 - 1		.361114	1	-.191842 - 1		.165475		-.199905
3.4	.185607		-.139227		-.171757 - 1		.366558	1	-.214925 - 1		.184332		-.200370
3.6	.183468		-.156571		-.194198 - 1		.371411	1	-.239411 - 1		.204167		-.200868
3.8	.181559		-.174902		-.218105 - 1		.375759	1	-.265314 - 1		.224975		-.201381
4.0	.179839		-.194214		-.243492 - 1		.379674	1	-.292650 - 1		.246750		-.201898
4.2	.178278		-.214502		-.270373 - 1		.383216	1	-.321431 - 1		.269487		-.202412
4.4	.176852		-.235759		-.298761 - 1		.386432	1	-.351673 - 1		.293181		-.202917
4.6	.175541		-.257980		-.328669 - 1		.389366	1	-.383389 - 1		.317828		-.203410
4.8	.174329		-.281161		-.360112 - 1		.392051	1	-.416593 - 1		.343422		-.203888
5.0	.173203		-.305296		-.393103 - 1		.394516	1	-.451301 - 1		.369959		-.204351
5.2	.172153		-.330380		-.427656 - 1		.396787	1	-.487526 - 1		.397435		-.204798
5.4	.171169		-.356409		-.463785 - 1		.398886	1	-.525282 - 1		.425845		-.205229
5.6	.170244		-.383378		-.501503 - 1		.400830	1	-.564584 - 1		.455184		-.205643
5.8	.169372		-.411282		-.540824 - 1		.402636	1	-.605446 - 1		.485448		-.206041
6.0	.168546		-.440117		-.581763 - 1		.404317	1	-.647881 - 1		.516632		-.206423
6.2	.167764		-.469879		-.624332 - 1		.405886	1	-.691905 - 1		.548733		-.206791

Z = 65, A = 159

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.319234	2	-.915777		-.189306		-.351839		-.560599		.287183	1	-.170059	1
.6	.224354	2	-.133303	1	-.276281		-.114377		-.694065		.354572	1	-.161387	1
.8	.179679	2	-.179426	1	-.373125		-.160388	- 1	-.814112		.414429	1	-.175146	1
1.0	.154524	2	-.228293	1	-.476603		.397517	- 1	-.928049		.470486	1	-.191038	1
1.2	.138667	2	-.278646	1	-.584235		.764071	- 1	-.103892	1	.524305	1	-.205829	1
1.4	.127828	2	-.329670	1	-.694400		.102603		.111812	1	.576611	1	-.218939	1
1.6	.119950	2	-.380862	1	-.806095		.122366		-.125636	1	.627779	1	-.230416	1
1.8	.113946	2	-.431923	1	-.918711		.137851		-.136403	1	.678021	1	-.240457	1
2.0	.109194	2	-.482677	1	-.103188	1	.150327		-.147136	1	.727473	1	-.249276	1
2.2	.105317	2	-.533022	1	-.114540	1	.160598		-.157851	1	.776223	1	-.257064	1
2.4	.102076	2	-.582902	1	-.125913	1	.169202		-.168558	1	.824335	1	-.263985	1
2.6	.993112	1	-.632288	1	-.137300	1	.176510		-.179264	1	.871857	1	-.270174	1
2.8	.969134	1	-.681170	1	-.148698	1	.182790		-.189975	1	.918826	1	-.275741	1
3.0	.948047	1	-.729545	1	-.160105	1	.188241		-.200696	1	.965274	1	-.280778	1
3.2	.929283	1	-.777418	1	-.171520	1	.193012		-.211428	1	.101122	2	-.285359	1
3.4	.912421	1	-.824797	1	-.182943	1	.197219		-.222177	1	.105670	2	-.289547	1
3.6	.897137	1	-.871693	1	-.194376	1	.200950		-.232942	1	.110172	2	-.293394	1
3.8	.883181	1	-.918116	1	-.205820	1	.204279		-.243727	1	.114630	2	-.296944	1
4.0	.870356	1	-.964080	1	-.217275	1	.207264		-.254533	1	.119045	2	-.300233	1
4.2	.858504	1	-.100959	2	-.228743	1	.209950		-.265362	1	.123420	2	-.303292	1
4.4	.847496	1	-.105467	2	-.240225	1	.212377		-.276214	1	.127754	2	-.306148	1
4.6	.837228	1	-.109932	2	-.251723	1	.214577		-.287091	1	.132050	2	-.308825	1
4.8	.827612	1	-.114356	2	-.263236	1	.216577		-.297993	1	.136308	2	-.311340	1
5.0	.818576	1	-.118740	2	-.274767	1	.218400		-.308922	1	.140529	2	-.313712	1
5.2	.810057	1	-.123083	2	-.286317	1	.220065		-.319878	1	.144714	2	-.315956	1
5.4	.802003	1	-.127389	2	-.297885	1	.221589		-.330861	1	.148864	2	-.318084	1
5.6	.794368	1	-.131656	2	-.309474	1	.222985		-.341872	1	.152979	2	-.320107	1
5.8	.787115	1	-.135887	2	-.321083	1	.224267		-.352913	1	.157061	2	-.322036	1
6.0	.780208	1	-.140082	2	-.332714	1	.225445		-.363982	1	.161110	2	-.323880	1
6.2	.773618	1	-.144242	2	-.344367	1	.226528		-.375080	1	.165127	2	-.325646	1

Z = 65, A = 159

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.124919	1 -.186987 - 2	-.218056 - 3	.523096	-.903525 - 3	.822910 - 2	-.618122
.6	.614704	-.385072 - 2	-.450249 - 3	.112402	1 -.140346 - 2	.127463 - 1	-.365751
.8	.421946	-.681678 - 2	-.799776 - 3	.158435	1 -.203117 - 2	.183808 - 1	-.281949
1.0	.337212	-.108378 - 1	-.127658 - 2	.195771	1 -.278905 - 2	.251334 - 1	-.244061
1.2	.291734	-.159430 - 1	-.188614 - 2	.226359	1 -.367780 - 2	.329893 - 1	-.224529
1.4	.264071	-.221405 - 1	-.263157 - 2	.251539	1 -.469808 - 2	.419336 - 1	-.213748
1.6	.245729	-.294285 - 1	-.351487 - 2	.272391	1 -.585074 - 2	.519532 - 1	-.207590
1.8	.232771	-.378005 - 1	-.453753 - 2	.289784	1 -.713682 - 2	.630372 - 1	-.204044
2.0	.223162	-.472484 - 1	-.570081 - 2	.304412	1 -.855747 - 2	.751758 - 1	-.202046
2.2	.215756	-.577636 - 1	-.700594 - 2	.316818	1 -.101139 - 1	.883603 - 1	-.200994
2.4	.209866	-.693376 - 1	-.845411 - 2	.327429	1 -.118075 - 1	.102583	-.200536
2.6	.205061	-.819621 - 1	-.100465 - 1	.336578	1 -.136395 - 1	.117836	-.200455
2.8	.201055	-.956291 - 1	-.117844 - 1	.344527	1 -.156114 - 1	.134113	-.200617
3.0	.197655	-.110331	-.136691 - 1	.351482	1 -.177245 - 1	.151408	-.200933
3.2	.194723	-.126061	-.157018 - 1	.357609	1 -.199802 - 1	.169713	-.201345
3.4	.192161	-.142812	-.178838 - 1	.363040	1 -.223799 - 1	.189023	-.201817
3.6	.189896	-.160577	-.202165 - 1	.367882	1 -.249252 - 1	.209332	-.202322
3.8	.187874	-.179350	-.227012 - 1	.372220	1 -.276173 - 1	.230634	-.202843
4.0	.186052	-.199125	-.253393 - 1	.376127	1 -.304578 - 1	.252924	-.203369
4.2	.184399	-.219896	-.281321 - 1	.379662	1 -.334481 - 1	.276197	-.203890
4.4	.182887	-.241657	-.310811 - 1	.382873	1 -.365897 - 1	.300447	-.204403
4.6	.181498	-.264403	-.341875 - 1	.385801	1 -.398839 - 1	.325668	-.204904
4.8	.180213	-.288128	-.374529 - 1	.388481	1 -.433323 - 1	.351857	-.205390
5.0	.179019	-.312827	-.408785 - 1	.390942	1 -.469363 - 1	.379008	-.205860
5.2	.177905	-.338495	-.444658 - 1	.393210	1 -.506973 - 1	.407117	-.206314
5.4	.176861	-.365127	-.482162 - 1	.395305	1 -.546168 - 1	.436178	-.206751
5.6	.175880	-.392718	-.521311 - 1	.397247	1 -.586962 - 1	.466186	-.207172
5.8	.174955	-.421263	-.562118 - 1	.399050	1 -.629370 - 1	.497139	-.207577
6.0	.174079	-.450757	-.604599 - 1	.400729	1 -.673406 - 1	.529030	-.207965
6.2	.173249	-.481196	-.648766 - 1	.402297	1 -.719084 - 1	.561855	-.208339

Z = 66, A = 161

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.337574	2	-.949382		-.199305		-.354617		-.584002		.294407	1	-.168123	1
.6	.237077	2	-.137716	1	-.289859		-.111887		-.722782		.363371	1	-.157885	1
.8	.189676	2	-.184904	1	-.390476		-.117341	- 1	-.847359		.424509	1	-.170758	1
1.0	.162940	2	-.234834	1	-.497840		.450225	- 1	-.965392		.481670	1	-.185953	1
1.2	.146059	2	-.286233	1	-.609401		.823003	- 1	-.108011	1	.536484	1	-.200160	1
1.4	.134505	2	-.338275	1	-.723489		.108941		-.119299	1	.589710	1	-.212771	1
1.6	.126098	2	-.390452	1	-.839073		.129041		-.130479	1	.641742	1	-.223815	1
1.8	.119684	2	-.442463	1	-.955530		.144791		-.141593	1	.692805	1	-.233477	1
2.0	.114602	2	-.494131	1	-.107249	1	.157482		-.152666	1	.743039	1	-.241962	1
2.2	.110454	2	-.545356	1	-.118973	1	.167932		-.163715	1	.792539	1	-.249455	1
2.4	.106983	2	-.596083	1	-.130713	1	.176685		-.174750	1	.841371	1	-.256112	1
2.6	.104022	2	-.646284	1	-.142462	1	.184119		-.185780	1	.889585	1	-.262063	1
2.8	.101452	2	-.695950	1	-.154216	1	.190508		-.196811	1	.937222	1	-.267416	1
3.0	.991912	1	-.745081	1	-.165973	1	.196053		-.207846	1	.984312	1	-.272258	1
3.2	.971791	1	-.793682	1	-.177733	1	.200905		-.218890	1	.103088	2	-.276662	1
3.4	.953705	1	-.841764	1	-.189498	1	.205183		-.229946	1	.107696	2	-.280689	1
3.6	.937310	1	-.889338	1	-.201267	1	.208976		-.241016	1	.112256	2	-.284388	1
3.8	.922337	1	-.936416	1	-.213042	1	.212360		-.252101	1	.116770	2	-.287801	1
4.0	.908577	1	-.983012	1	-.224825	1	.215392		-.263205	1	.121239	2	-.290963	1
4.2	.895860	1	-.102914	2	-.236617	1	.218120		-.274328	1	.125666	2	-.293906	1
4.4	.884050	1	-.107481	2	-.248419	1	.220585		-.285471	1	.130051	2	-.296653	1
4.6	.873032	1	-.112003	2	-.260232	1	.222817		-.296637	1	.134396	2	-.299228	1
4.8	.862716	1	-.116482	2	-.272058	1	.224846		-.307825	1	.138701	2	-.301649	1
5.0	.853021	1	-.120918	2	-.283898	1	.226694		-.319037	1	.142968	2	-.303932	1
5.2	.843882	1	-.125314	2	-.295753	1	.228381		-.330273	1	.147198	2	-.306093	1
5.4	.835242	1	-.129669	2	-.307624	1	.229924		-.341534	1	.151390	2	-.308142	1
5.6	.827053	1	-.133985	2	-.319512	1	.231337		-.352821	1	.155547	2	-.310092	1
5.8	.819274	1	-.138263	2	-.331418	1	.232633		-.364135	1	.159670	2	-.311951	1
6.0	.811867	1	-.142503	2	-.343343	1	.233823		-.375475	1	.163757	2	-.313729	1
6.2	.804801	1	-.146706	2	-.355286	1	.234917		-.386842	1	.167811	2	-.315433	1

Z = 66, A = 161

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.132214	1	-.193925 - 2		-.229543 - 3		.502933		-.947488 - 3		.849633 - 2		-.630966
.6	.646775		-.397412 - 2		-.471644 - 3		.110232	1	-.146737 - 2		.131215 - 1		-.370797
.8	.442208		-.701530 - 2		-.835379 - 3		.156002	1	-.211940 - 2		.188846 - 1		-.284998
1.0	.352457		-.111334 - 1		-.133097 - 2		.193111	1	-.290617 - 2		.257875 - 1		-.246300
1.2	.304342		-.163580 - 1		-.196403 - 2		.223523	1	-.382841 - 2		.338157 - 1		-.226373
1.4	.275095		-.226969 - 1		-.273771 - 2		.248571	1	-.488677 - 2		.429536 - 1		-.215381
1.6	.255709		-.301480 - 1		-.365404 - 2		.269322	1	-.608209 - 2		.531879 - 1		-.209104
1.8	.242016		-.387044 - 1		-.471449 - 2		.286640	1	-.741537 - 2		.645070 - 1		-.205489
2.0	.231860		-.483576 - 1		-.592033 - 2		.301210	1	-.888778 - 2		.769009 - 1		-.203451
2.2	.224032		-.590986 - 1		-.727277 - 2		.313572	1	-.105005 - 1		.903604 - 1		-.202378
2.4	.217806		-.709184 - 1		-.877298 - 2		.324148	1	-.122549 - 1		.104877		-.201909
2.6	.212724		-.838084 - 1		-.104222 - 1		.333270	1	-.141523 - 1		.120444		-.201825
2.8	.208487		-.977604 - 1		-.122216 - 1		.341197	1	-.161941 - 1		.137053		-.201987
3.0	.204888		-.112766		-.141725 - 1		.348135	1	-.183816 - 1		.154698		-.202306
3.2	.201785		-.128819		-.162761 - 1		.354248	1	-.207163 - 1		.173372		-.202725
3.4	.199072		-.145911		-.185339 - 1		.359667	1	-.231996 - 1		.193068		-.203203
3.6	.196674		-.164035		-.209470 - 1		.364499	1	-.258330 - 1		.213781		-.203716
3.8	.194531		-.183185		-.235168 - 1		.368830	1	-.286178 - 1		.235504		-.204245
4.0	.192601		-.203354		-.262448 - 1		.372730	1	-.315555 - 1		.258232		-.204778
4.2	.190849		-.224537		-.291323 - 1		.376259	1	-.346476 - 1		.281959		-.205308
4.4	.189247		-.246727		-.321806 - 1		.379465	1	-.378955 - 1		.306680		-.205828
4.6	.187773		-.269919		-.353912 - 1		.382389	1	-.413008 - 1		.332390		-.206337
4.8	.186411		-.294106		-.387654 - 1		.385066	1	-.448648 - 1		.359082		-.206830
5.0	.185144		-.319284		-.423046 - 1		.387524	1	-.485889 - 1		.386753		-.207308
5.2	.183963		-.345447		-.460104 - 1		.389789	1	-.524748 - 1		.415397		-.207769
5.4	.182855		-.372590		-.498840 - 1		.391882	1	-.565238 - 1		.445008		-.208213
5.6	.181814		-.400707		-.539268 - 1		.393821	1	-.607373 - 1		.475583		-.208641
5.8	.180832		-.429794		-.581403 - 1		.395623	1	-.651169 - 1		.507116		-.209051
6.0	.179903		-.459846		-.625260 - 1		.397301	1	-.696639 - 1		.539603		-.209446
6.2	.179022		-.490857		-.670851 - 1		.398866	1	-.743798 - 1		.573039		-.209825

Z = 67, A = 165

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.356733	2	-.983814		-.209753		-.357266		-.607978		.301673	1	-.166227	1
.6	.250358	2	-.142222	1	-.304008		-.109222		-.752197		.372216	1	-.154463	1
.8	.200103	2	-.190480	1	-.408512		-.724117	- 2	-.881406		.434634	1	-.166482	1
1.0	.171707	2	-.241475	1	-.519876		.504887	- 1	-.100362	1	.492894	1	-.181010	1
1.2	.153751	2	-.293917	1	-.635474		.883941	- 1	-.112225	1	.548691	1	-.194658	1
1.4	.141443	2	-.346971	1	-.753590		.115483		-.123088	1	.607823	1	-.206797	1
1.6	.132478	2	-.400124	1	-.873165		.135923		-.135430	1	.655702	1	-.217423	1
1.8	.125631	2	-.453072	1	-.993562		.151941		-.146898	1	.707564	1	-.226725	1
2.0	.120202	2	-.505640	1	-.111440	1	.164850		-.158317	1	.758559	1	-.234893	1
2.2	.115766	2	-.557727	1	-.123547	1	.175479		-.169705	1	.808783	1	-.242104	1
2.4	.112053	2	-.609280	1	-.135663	1	.184382		-.181075	1	.858308	1	-.248510	1
2.6	.108883	2	-.660275	1	-.147782	1	.191944		-.192434	1	.907187	1	-.254237	1
2.8	.106131	2	-.710702	1	-.159900	1	.198442		-.203789	1	.955461	1	-.259387	1
3.0	.103710	2	-.760564	1	-.172016	1	.204080		-.215145	1	.100316	2	-.264046	1
3.2	.101554	2	-.809867	1	-.184131	1	.209013		-.226505	1	.105032	2	-.268284	1
3.4	.996163	1	-.858623	1	-.196244	1	.213361		-.237874	1	.109696	2	-.272158	1
3.6	.978592	1	-.906845	1	-.208358	1	.217216		-.249252	1	.114311	2	-.275717	1
3.8	.962544	1	-.954546	1	-.220473	1	.220653		-.260644	1	.118877	2	-.279002	1
4.0	.947796	1	-.100174	2	-.232591	1	.223732		-.272050	1	.123397	2	-.282047	1
4.2	.934165	1	-.104844	2	-.244715	1	.226501		-.283473	1	.127872	2	-.284880	1
4.4	.921505	1	-.109467	2	-.256844	1	.229001		-.294913	1	.132304	2	-.287526	1
4.6	.909697	1	-.114042	2	-.268981	1	.231265		-.306372	1	.136694	2	-.290007	1
4.8	.898639	1	-.118573	2	-.281128	1	.233321		-.317851	1	.141042	2	-.292340	1
5.0	.888249	1	-.123059	2	-.293285	1	.235193		-.329351	1	.145350	2	-.294541	1
5.2	.878456	1	-.127502	2	-.305453	1	.236900		-.340874	1	.149620	2	-.296625	1
5.4	.869198	1	-.131903	2	-.317634	1	.238460		-.352418	1	.153851	2	-.298602	1
5.6	.860424	1	-.136263	2	-.329830	1	.239888		-.363987	1	.158045	2	-.300484	1
5.8	.852090	1	-.140583	2	-.342040	1	.241196		-.375579	1	.162203	2	-.302280	1
6.0	.844156	1	-.144864	2	-.354265	1	.242395		-.387195	1	.166325	2	-.303998	1
6.2	.836588	1	-.149106	2	-.366507	1	.243496		-.398836	1	.170412	2	-.305644	1

Z = 67, A = 165

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.139866	1 -.201883 - 2	-.242560 - 3	.483116	-.997106 - 3	.880513 - 2	-.644008
.6	.680260	-.411721 - 2	-.495975 - 3	.108118	1 -.153972 - 2	.135591 - 1	-.375829
.8	.463288	-.724739 - 2	-.875980 - 3	.153640	1 -.221951 - 2	.194762 - 1	-.288002
1.0	.368274	-.114812 - 1	-.139313 - 2	.190535	1 -.303930 - 2	.265600 - 1	-.248486
1.2	.317398	-.168484 - 1	-.205320 - 2	.220781	1 -.399987 - 2	.347955 - 1	-.228160
1.4	.286493	-.233568 - 1	-.285941 - 2	.245703	1 -.510186 - 2	.441669 - 1	-.216955
1.6	.266014	-.310037 - 1	-.381381 - 2	.266362	1 -.634611 - 2	.546602 - 1	-.210558
1.8	.251551	-.397819 - 1	-.491789 - 2	.283610	1 -.773362 - 2	.662635 - 1	-.206874
2.0	.240824	-.496824 - 1	-.617292 - 2	.298127	1 -.926554 - 2	.789660 - 1	-.204796
2.2	.232554	-.606957 - 1	-.758010 - 2	.310449	1 -.109431 - 1	.927584 - 1	-.203700
2.4	.225974	-.728124 - 1	-.914062 - 2	.320994	1 -.127676 - 1	.107632	-.203221
2.6	.220604	-.860234 - 1	-.108557 - 1	.330092	1 -.147404 - 1	.123578	-.203133
2.8	.216124	-.100320	-.127265 - 1	.338000	1 -.168630 - 1	.140590	-.203296
3.0	.212318	-.115694	-.147544 - 1	.344923	1 -.191366 - 1	.158660	-.203619
3.2	.209035	-.132137	-.169406 - 1	.351024	1 -.215627 - 1	.177781	-.204043
3.4	.206165	-.149643	-.192865 - 1	.356434	1 -.241428 - 1	.197946	-.204528
3.6	.203626	-.168203	-.217934 - 1	.361258	1 -.268783 - 1	.219150	-.205048
3.8	.201358	-.187810	-.244627 - 1	.365582	1 -.297707 - 1	.241385	-.205585
4.0	.199314	-.208459	-.272957 - 1	.369477	1 -.328215 - 1	.264646	-.206126
4.2	.197458	-.230142	-.302938 - 1	.373001	1 -.360321 - 1	.288927	-.206664
4.4	.195761	-.252854	-.334585 - 1	.376204	1 -.394040 - 1	.314221	-.207192
4.6	.194199	-.276588	-.367911 - 1	.379125	1 -.429386 - 1	.340525	-.207708
4.8	.192755	-.301338	-.402930 - 1	.381799	1 -.466375 - 1	.367831	-.208210
5.0	.191413	-.327099	-.439657 - 1	.384255	1 -.505022 - 1	.396135	-.208695
5.2	.190160	-.353864	-.478106 - 1	.386518	1 -.545340 - 1	.425432	-.209163
5.4	.188986	-.381629	-.518291 - 1	.388610	1 -.587346 - 1	.455715	-.209614
5.6	.187882	-.410388	-.560227 - 1	.390548	1 -.631053 - 1	.486981	-.210048
5.8	.186841	-.440136	-.603927 - 1	.392348	1 -.676476 - 1	.519223	-.210465
6.0	.185855	-.470868	-.649406 - 1	.394025	1 -.723631 - 1	.552438	-.210866
6.2	.184921	-.502577	-.696679 - 1	.395590	1 -.772531 - 1	.586620	-.211251

Z = 68, A = 166

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.377709	2	-.102047	1	-.220838		-.359780		-.633404		.309417	1	-.164364	1
.6	.264896	2	-.147024	1	-.318987		-.106377		-.783381		.381650	1	-.151113	1
.8	.211515	2	-.196426	1	-.427570		-.255444 - 2		-.917484		.445442	1	-.162311	1
1.0	.181301	2	-.248561	1	-.543121		.561574 - 1		-.104411	1	.504886	1	-.176196	1
1.2	.162165	2	-.302122	1	-.662936		.946969 - 1		-.116685	1	.561747	1	-.189309	1
1.4	.149032	2	-.356262	1	-.785251		.122239		-.128741	1	.616860	1	-.200985	1
1.6	.139454	2	-.410464	1	-.908977		.143024		-.140662	1	.670658	1	-.211221	1
1.8	.132131	2	-.464422	1	-.103346	1	.159315		-.152498	1	.723391	1	-.220177	1
2.0	.126320	2	-.517961	1	-.115833	1	.172444		-.164278	1	.775214	1	-.228041	1
2.2	.121569	2	-.570981	1	-.128334	1	.183256		-.176019	1	.826231	1	-.234983	1
2.4	.117590	2	-.623432	1	-.140838	1	.192312		-.187735	1	.876517	1	-.241148	1
2.6	.114191	2	-.675288	1	-.153339	1	.200005		-.199434	1	.926127	1	-.246659	1
2.8	.111240	2	-.726545	1	-.165832	1	.206614		-.211125	1	.975104	1	-.251615	1
3.0	.108641	2	-.777205	1	-.178316	1	.212348		-.222810	1	.102348	2	-.256098	1
3.2	.106328	2	-.827277	1	-.190793	1	.217365		-.234496	1	.107130	2	-.260176	1
3.4	.104248	2	-.876774	1	-.203264	1	.221786		-.246185	1	.111857	2	-.263904	1
3.6	.102362	2	-.925710	1	-.215729	1	.225704		-.257881	1	.116532	2	-.267329	1
3.8	.100639	2	-.974101	1	-.228190	1	.229197		-.269585	1	.121157	2	-.270490	1
4.0	.990555	1	-.102196	2	-.240650	1	.232325		-.281301	1	.125734	2	-.273420	1
4.2	.975922	1	-.106931	2	-.253110	1	.235138		-.293029	1	.130264	2	-.276147	1
4.4	.962331	1	-.111615	2	-.265572	1	.237676		-.304771	1	.134749	2	-.278695	1
4.6	.949655	1	-.116251	2	-.278037	1	.239973		-.316528	1	.139190	2	-.281084	1
4.8	.937785	1	-.120839	2	-.290507	1	.242058		-.328303	1	.143588	2	-.283331	1
5.0	.926633	1	-.125381	2	-.302983	1	.243955		-.340095	1	.147945	2	-.285452	1
5.2	.916122	1	-.129878	2	-.315467	1	.245684		-.351906	1	.152261	2	-.287460	1
5.4	.906187	1	-.134332	2	-.327960	1	.247263		-.363737	1	.156537	2	-.289366	1
5.6	.896772	1	-.138743	2	-.340464	1	.248707		-.375588	1	.160775	2	-.291181	1
5.8	.887830	1	-.143112	2	-.352979	1	.250029		-.387461	1	.164975	2	-.292914	1
6.0	.879319	1	-.147440	2	-.365506	1	.251240		-.399355	1	.169137	2	-.294571	1
6.2	.871201	1	-.151728	2	-.378046	1	.252351		-.411271	1	.173264	2	-.296161	1

Z = 68, A = 166

p	$\bar{F}$		f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.148072	1	-.208964 - 2	-.254702 - 3	.463626		-.104303 - 2	.907262 - 2	-.657257
.6	.716086		-.424121 - 2	-.518294 - 3	.106059	1	-.160602 - 2	.139314 - 1	-.380847
.8	.485806		-.744477 - 2	-.912801 - 3	.151347	1	-.231052 - 2	.199724 - 1	-.290962
1.0	.385153		-.117729 - 1	-.144905 - 2	.188039	1	-.315959 - 2	.272006 - 1	-.250618
1.2	.331318		-.172555 - 1	-.213291 - 2	.218128	1	-.415403 - 2	.356012 - 1	-.229890
1.4	.298638		-.239001 - 1	-.296766 - 2	.242934	1	-.529446 - 2	.451578 - 1	-.218470
1.6	.276991		-.317038 - 1	-.395534 - 2	.263505	1	-.658170 - 2	.558561 - 1	-.211952
1.8	.261703		-.406588 - 1	-.509743 - 2	.280689	1	-.801672 - 2	.676836 - 1	-.208198
2.0	.250364		-.507557 - 1	-.639518 - 2	.295159	1	-.960064 - 2	.806293 - 1	-.206080
2.2	.241621		-.619847 - 1	-.784977 - 2	.307444	1	-.113347 - 1	.946832 - 1	-.204962
2.4	.234664		-.743359 - 1	-.946236 - 2	.317963	1	-.132202 - 1	.109836	-.204472
2.6	.228984		-.877998 - 1	-.112342 - 1	.327039	1	-.152584 - 1	.126080	-.204380
2.8	.224244		-.102367	-.131664 - 1	.334931	1	-.174508 - 1	.143407	-.204543
3.0	.220217		-.118030	-.152602 - 1	.341842	1	-.197987 - 1	.161808	-.204870
3.2	.216742		-.134780	-.175171 - 1	.347933	1	-.223036 - 1	.181278	-.205300
3.4	.213702		-.152608	-.199382 - 1	.353335	1	-.249669 - 1	.201808	-.205791
3.6	.211014		-.171508	-.225249 - 1	.358153	1	-.277900 - 1	.223393	-.206319
3.8	.208611		-.191472	-.252785 - 1	.362472	1	-.307745 - 1	.246025	-.206863
4.0	.206445		-.212494	-.282005 - 1	.366363	1	-.339217 - 1	.269699	-.207412
4.2	.204478		-.234566	-.312922 - 1	.369884	1	-.372332 - 1	.294408	-.207958
4.4	.202679		-.257682	-.345550 - 1	.373084	1	-.407104 - 1	.320146	-.208494
4.6	.201023		-.281836	-.379903 - 1	.376003	1	-.443548 - 1	.346908	-.209018
4.8	.199492		-.307021	-.415995 - 1	.378676	1	-.481679 - 1	.374688	-.209527
5.0	.198069		-.333232	-.453841 - 1	.381131	1	-.521511 - 1	.403479	-.210019
5.2	.196740		-.360463	-.493454 - 1	.383393	1	-.563060 - 1	.433278	-.210494
5.4	.195494		-.388708	-.534850 - 1	.385484	1	-.606341 - 1	.464078	-.210952
5.6	.194323		-.417961	-.578041 - 1	.387421	1	-.651367 - 1	.495874	-.211393
5.8	.193218		-.448217	-.623043 - 1	.389221	1	-.698155 - 1	.528660	-.211816
6.0	.192172		-.479471	-.669869 - 1	.390898	1	-.746718 - 1	.562433	-.212223
6.2	.191180		-.511716	-.718535 - 1	.392463	1	-.797071 - 1	.597186	-.212615

Z = 69, A = 171

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.399229	2	-.105745	1	-.232344	-.362155	-.659083		.317025	1	-.162536	1
.6	.279799	2	-.151844	1	-.334486	-.103350	-.814870		.390907	1	-.147836	1
.8	.223198	2	-.202368	1	-.447239	.232725 - 2	-.953908		.456034	1	-.158243	1
1.0	.191107	2	-.255613	1	-.567063	.620290 - 1	-.108497	1	.516616	1	-.171513	1
1.2	.170751	2	-.310256	1	-.691179	.101208	-.121186	1	.574492	1	-.184113	1
1.4	.156761	2	-.365442	1	-.817772	.129208	-.133635	1	.630531	1	-.195353	1
1.6	.146547	2	-.420648	1	-.945728	.150341	-.145938	1	.685192	1	-.205211	1
1.8	.138730	2	-.475567	1	-.107438	1 .166906	-.158144	1	.738735	1	-.213839	1
2.0	.132522	2	-.530024	1	-.120334	1 .180258	-.170286	1	.791325	1	-.221415	1
2.2	.127443	2	-.583922	1	-.133238	1 .191254	-.182382	1	.843069	1	-.228101	1
2.4	.123187	2	-.637211	1	-.146138	1 .200463	-.194446	1	.894048	1	-.234040	1
2.6	.119549	2	-.689869	1	-.159027	1 .208286	-.206488	1	.944318	1	-.239348	1
2.8	.116389	2	-.741891	1	-.171902	1 .215006	-.218516	1	.993927	1	-.244122	1
3.0	.113607	2	-.793283	1	-.184763	1 .220835	-.230534	1	.104291	2	-.248440	1
3.2	.111130	2	-.844056	1	-.197611	1 .225934	-.242548	1	.109130	2	-.252367	1
3.4	.108901	2	-.894223	1	-.210446	1 .230426	-.254562	1	.113913	2	-.255959	1
3.6	.106881	2	-.943802	1	-.223270	1 .234406	-.266577	1	.118641	2	-.259259	1
3.8	.105035	2	-.992807	1	-.236086	1 .237953	-.278598	1	.123317	2	-.262306	1
4.0	.103339	2	-.104126	2	-.248895	1 .241127	-.290626	1	.127942	2	-.265131	1
4.2	.101771	2	-.108917	2	-.261699	1 .243980	-.302663	1	.132519	2	-.267760	1
4.4	.100315	2	-.113655	2	-.274501	1 .246552	-.314711	1	.137048	2	-.270218	1
4.6	.989568	1	-.118342	2	-.287302	1 .248880	-.326771	1	.141532	2	-.272523	1
4.8	.976854	1	-.122980	2	-.300104	1 .250990	-.338846	1	.145971	2	-.274693	1
5.0	.964909	1	-.127570	2	-.312909	1 .252909	-.350935	1	.150367	2	-.276742	1
5.2	.953651	1	-.132113	2	-.325717	1 .254657	-.363040	1	.154720	2	-.278682	1
5.4	.943012	1	-.136610	2	-.338531	1 .256251	-.375162	1	.159032	2	-.280525	1
5.6	.932932	1	-.141062	2	-.351352	1 .257707	-.387301	1	.163304	2	-.282281	1
5.8	.923359	1	-.145471	2	-.364180	1 .259039	-.399460	1	.167536	2	-.283957	1
6.0	.914247	1	-.149838	2	-.377018	1 .260258	-.411637	1	.171730	2	-.285562	1
6.2	.905559	1	-.154163	2	-.389865	1 .261374	-.423834	1	.175885	2	-.287103	1

Z = 69, A = 171

p	$\bar{F}$		f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.156605	1	-.217894 - 2	-.269507 - 3	.444444		-.109891 - 2	.941705 - 2	-.670718
.6	.753127		-.440149 - 2	-.545813 - 3	.104051	1	-.168731 - 2	.144200 - 1	-.385851
.8	.508987		-.770455 - 2	-.958573 - 3	.149119	1	-.242280 - 2	.206333 - 1	-.293877
1.0	.402471		-.121620 - 1	-.151898 - 2	.185619	1	-.330871 - 2	.280637 - 1	-.252695
1.2	.345566		-.178041 - 1	-.223309 - 2	.215561	1	-.434590 - 2	.366962 - 1	-.231562
1.4	.311044		-.246382 - 1	-.310425 - 2	.240257	1	-.553499 - 2	.465139 - 1	-.219925
1.6	.288184		-.326608 - 1	-.413453 - 2	.260749	1	-.687678 - 2	.575018 - 1	-.213285
1.8	.272042		-.418638 - 1	-.532542 - 2	.277874	1	-.837225 - 2	.696469 - 1	-.209461
2.0	.260069		-.522372 - 1	-.667817 - 2	.292300	1	-.100225 - 1	.829375 - 1	-.207302
2.2	.250835		-.637705 - 1	-.819396 - 2	.304554	1	-.118288 - 1	.973632 - 1	-.206162
2.4	.243487		-.764534 - 1	-.987396 - 2	.315049	1	-.137925 - 1	.112914	-.205660
2.6	.237485		-.902760 - 1	-.117194 - 1	.324107	1	-.159148 - 1	.129582	-.205565
2.8	.232476		-.105229	-.137314 - 1	.331986	1	-.181972 - 1	.147358	-.205729
3.0	.228219		-.121302	-.159113 - 1	.338886	1	-.206411 - 1	.166235	-.206059
3.2	.224544		-.138488	-.182605 - 1	.344970	1	-.232479 - 1	.186204	-.206494
3.4	.221330		-.156779	-.207801 - 1	.350366	1	-.260191 - 1	.207258	-.206992
3.6	.218485		-.176165	-.234716 - 1	.355179	1	-.289562 - 1	.229390	-.207527
3.8	.215943		-.196640	-.263364 - 1	.359495	1	-.320606 - 1	.252593	-.208079
4.0	.213650		-.218196	-.293757 - 1	.363383	1	-.353339 - 1	.276862	-.208636
4.2	.211568		-.240827	-.325911 - 1	.366903	1	-.387775 - 1	.302188	-.209190
4.4	.209663		-.264525	-.359840 - 1	.370101	1	-.423929 - 1	.328567	-.209734
4.6	.207909		-.289283	-.395557 - 1	.373019	1	-.461817 - 1	.355991	-.210266
4.8	.206287		-.315096	-.433077 - 1	.375691	1	-.501453 - 1	.384455	-.210782
5.0	.204779		-.341957	-.472414 - 1	.378146	1	-.542852 - 1	.413953	-.211282
5.2	.203371		-.369860	-.513584 - 1	.380408	1	-.586030 - 1	.444479	-.211764
5.4	.202052		-.398799	-.556599 - 1	.382499	1	-.631002 - 1	.476028	-.212229
5.6	.200810		-.428767	-.601476 - 1	.384436	1	-.677782 - 1	.508594	-.212676
5.8	.199639		-.459760	-.648227 - 1	.386237	1	-.726386 - 1	.542171	-.213106
6.0	.198531		-.491771	-.696869 - 1	.387914	1	-.776829 - 1	.576754	-.213519
6.2	.197479		-.524796	-.747415 - 1	.389479	1	-.829125 - 1	.612338	-.213916

Z = 70, A = 170

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.423506	2	-.109779	1	-.244689	-.364386	-.686937		.325435	1	-.160732	1
.6	.296612	2	-.157121	1	-.351092	-.100136	-.849012		.401154	1	-.144623	1
.8	.236383	2	-.208891	1	-.468281	.741223 - 2	-.993380		.467778	1	-.154267	1
1.0	.202177	2	-.263375	1	-.592638	.681144 - 1	-.112922	1	.529651	1	-.166944	1
1.2	.180447	2	-.319233	1	-.721305	.107942	-.126056	1	.588683	1	-.179051	1
1.4	.165493	2	-.375596	1	-.852414	.136407	-.138928	1	.645788	1	-.189871	1
1.6	.154562	2	-.431939	1	-.984822	.157894	-.151637	1	.701446	1	-.199367	1
1.8	.146188	2	-.487951	1	-.111785	1 .174739	-.164237	1	.755933	1	-.207679	1
2.0	.139532	2	-.543459	1	-.125110	1 .188319	-.176762	1	.809421	1	-.214977	1
2.2	.134084	2	-.598366	1	-.138434	1 .199503	-.189233	1	.862025	1	-.221418	1
2.4	.129515	2	-.652624	1	-.151746	1 .208872	-.201664	1	.913828	1	-.227137	1
2.6	.125609	2	-.706214	1	-.165039	1 .216828	-.214066	1	.964890	1	-.232249	1
2.8	.122215	2	-.759133	1	-.178310	1 .223664	-.226447	1	.101526	2	-.236845	1
3.0	.119226	2	-.811389	1	-.191560	1 .229594	-.238813	1	.106498	2	-.241002	1
3.2	.116563	2	-.862993	1	-.204788	1 .234779	-.251170	1	.111408	2	-.244784	1
3.4	.114168	2	-.913963	1	-.217998	1 .239346	-.263520	1	.116259	2	-.248242	1
3.6	.111996	2	-.964315	1	-.231191	1 .243393	-.275867	1	.121053	2	-.251419	1
3.8	.110012	2	-.101407	2	-.244368	1 .246997	-.288214	1	.125793	2	-.254353	1
4.0	.108189	2	-.106324	2	-.257534	1 .250222	-.300564	1	.130481	2	-.257073	1
4.2	.106504	2	-.111185	2	-.270689	1 .253120	-.312919	1	.135117	2	-.259606	1
4.4	.104939	2	-.115990	2	-.283836	1 .255732	-.325281	1	.139705	2	-.261973	1
4.6	.103479	2	-.120743	2	-.296977	1 .258094	-.337651	1	.144245	2	-.264194	1
4.8	.102113	2	-.125444	2	-.310114	1 .260235	-.350031	1	.148738	2	-.266285	1
5.0	.100829	2	-.130095	2	-.323249	1 .262181	-.362422	1	.153187	2	-.268260	1
5.2	.996199	1	-.134697	2	-.336384	1 .263952	-.374825	1	.157591	2	-.270130	1
5.4	.984769	1	-.139251	2	-.349519	1 .265566	-.387242	1	.161953	2	-.271908	1
5.6	.973942	1	-.143760	2	-.362657	1 .267040	-.399673	1	.166273	2	-.273601	1
5.8	.963660	1	-.148222	2	-.375799	1 .268386	-.412118	1	.170552	2	-.275219	1
6.0	.953875	1	-.152641	2	-.388945	1 .269618	-.424580	1	.174791	2	-.276768	1
6.2	.944546	1	-.157017	2	-.402098	1 .270744	-.437058	1	.178991	2	-.278256	1

Z = 70, A = 170

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.165884	1	-.224719 - 2		-.281799 - 3		.425555		-.114480 - 2		.966735 - 2		-.684400
.6	.793382		-.451804 - 2		-.568009 - 3		.102093	1	-.175289 - 2		.147627 - 1		-.390840
.8	.534171		-.788667 - 2		-.994742 - 3		.146954	1	-.251209 - 2		.210840 - 1		-.296746
1.0	.421284		-.124275 - 1		-.157342 - 2		.183273	1	-.342598 - 2		.286395 - 1		-.254718
1.2	.361042		-.181708 - 1		-.231018 - 2		.213076	1	-.449542 - 2		.374141 - 1		-.233176
1.4	.324519		-.251235 - 1		-.320839 - 2		.237671	1	-.572101 - 2		.473908 - 1		-.221321
1.6	.300343		-.332820 - 1		-.427010 - 2		.258089	1	-.710350 - 2		.585542 - 1		-.214557
1.8	.283273		-.426375 - 1		-.549676 - 2		.275161	1	-.864384 - 2		.708906 - 1		-.210663
2.0	.270611		-.531797 - 1		-.688958 - 2		.289548	1	-.103431 - 1		.843882 - 1		-.208463
2.2	.260845		-.648977 - 1		-.844971 - 2		.301774	1	-.122025 - 1		.990360 - 1		-.207300
2.4	.253071		-.777808 - 1		-.101783 - 1		.312248	1	-.142232 - 1		.114824		-.206787
2.6	.246721		-.918187 - 1		-.120765 - 1		.321292	1	-.164067 - 1		.131743		-.206687
2.8	.241419		-.107002		-.141454 - 1		.329159	1	-.187543 - 1		.149785		-.206852
3.0	.236912		-.123320		-.163864 - 1		.336052	1	-.212673 - 1		.168941		-.207185
3.2	.233021		-.140765		-.188007 - 1		.342130	1	-.239473 - 1		.189202		-.207626
3.4	.229616		-.159327		-.213896 - 1		.347521	1	-.267955 - 1		.210563		-.208131
3.6	.226602		-.179000		-.241545 - 1		.352332	1	-.298136 - 1		.233014		-.208673
3.8	.223908		-.199775		-.270966 - 1		.356646	1	-.330029 - 1		.256550		-.209232
4.0	.221478		-.221644		-.302174 - 1		.360533	1	-.363649 - 1		.281162		-.209797
4.2	.219270		-.244600		-.335181 - 1		.364052	1	-.399012 - 1		.306846		-.210359
4.4	.217250		-.268636		-.370004 - 1		.367250	1	-.436131 - 1		.333593		-.210911
4.6	.215391		-.293745		-.406654 - 1		.370169	1	-.475022 - 1		.361399		-.211450
4.8	.213670		-.319920		-.445147 - 1		.372841	1	-.515700 - 1		.390255		-.211974
5.0	.212071		-.347156		-.485497 - 1		.375296	1	-.558180 - 1		.420158		-.212481
5.2	.210577		-.375445		-.527718 - 1		.377559	1	-.602477 - 1		.451100		-.212970
5.4	.209177		-.404781		-.571825 - 1		.379650	1	-.648605 - 1		.483075		-.213442
5.6	.207860		-.435159		-.617831 - 1		.381589	1	-.696580 - 1		.516078		-.213896
5.8	.206617		-.466572		-.665752 - 1		.383390	1	-.746416 - 1		.550104		-.214332
6.0	.205440		-.499015		-.715601 - 1		.385068	1	-.798129 - 1		.585147		-.214751
6.2	.204324		-.532482		-.767393 - 1		.386634	1	-.851733 - 1		.621200		-.215154

Z = 71, A = 175

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁				
.4	.447981	2	-.113787	1	-.257408	-.366469	-.714658		.333505	1	-.158959	1		
.6	.313542	2	-.162329	1	-.368141	-.967335	- 1	-.882985	.410971	1	-.141476	1		
.8	.249637	2	-.215290	1	-.489824	.126995	- 1	-.103265	1	.479006	1	-.150386	1	
1.0	.213284	2	-.270948	1	-.618765	.744110	- 1	-.117323	1	.542080	1	-.162495	1	
1.2	.190154	2	-.327946	1	-.752029	.114893		-.130897	1	.602176	1	-.174132	1	
1.4	.174216	2	-.385408	1	-.887700	.143827		-.144187	1	.660250	1	-.184551	1	
1.6	.162552	2	-.442802	1	-.102460	1	.165671		-.157299	1	.716806	1	-.193703	1
1.8	.153609	2	-.499818	1	-.116205	1	.182798		-.170289	1	.772132	1	-.201715	1
2.0	.146494	2	-.556282	1	-.129963	1	.196607		-.183195	1	.826412	1	-.208750	1
2.2	.140667	2	-.612100	1	-.143713	1	.207980		-.196037	1	.879765	1	-.214959	1
2.4	.135778	2	-.667226	1	-.157441	1	.217507		-.208833	1	.932278	1	-.220473	1
2.6	.131596	2	-.721643	1	-.171143	1	.225597		-.221594	1	.984016	1	-.225400	1
2.8	.127961	2	-.775351	1	-.184815	1	.232546		-.234327	1	.103503	2	-.229831	1
3.0	.124759	2	-.828359	1	-.198459	1	.238573		-.247039	1	.108536	2	-.233839	1
3.2	.121907	2	-.880681	1	-.212075	1	.243843		-.259737	1	.113505	2	-.237485	1
3.4	.119341	2	-.932336	1	-.225665	1	.248482		-.272423	1	.118412	2	-.240820	1
3.6	.117014	2	-.983343	1	-.239232	1	.252591		-.285102	1	.123260	2	-.243885	1
3.8	.114888	2	-.103372	2	-.252778	1	.256250		-.297777	1	.128051	2	-.246716	1
4.0	.112934	2	-.108349	2	-.266306	1	.259522		-.310450	1	.132787	2	-.249341	1
4.2	.111128	2	-.113267	2	-.279819	1	.262460		-.323124	1	.137470	2	-.251787	1
4.4	.109452	2	-.118127	2	-.293319	1	.265107		-.335801	1	.142102	2	-.254074	1
4.6	.107888	2	-.122932	2	-.306808	1	.267498		-.348483	1	.146684	2	-.256220	1
4.8	.106425	2	-.127683	2	-.320288	1	.269664		-.361171	1	.151218	2	-.258241	1
5.0	.105050	2	-.132381	2	-.333762	1	.271631		-.373867	1	.155705	2	-.260151	1
5.2	.103755	2	-.137029	2	-.347230	1	.273419		-.386571	1	.160146	2	-.261961	1
5.4	.102531	2	-.141627	2	-.360696	1	.275047		-.399286	1	.164543	2	-.263682	1
5.6	.101372	2	-.146176	2	-.374160	1	.276532		-.412012	1	.168896	2	-.265323	1
5.8	.100271	2	-.150678	2	-.387623	1	.277887		-.424750	1	.173207	2	-.266891	1
6.0	.992236	1	-.155135	2	-.401088	1	.279124		-.437500	1	.177476	2	-.268393	1
6.2	.982252	1	-.159546	2	-.414556	1	.280254		-.450265	1	.181704	2	-.269837	1

Z = 71, A = 175

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁
.4	.175444	1	-.234281	- 2	-.298010	- 3	.406942		-.120534	- 2	.100319	- 1	-.698309
.6	.834594		-.468838	- 2	-.597884	- 3	.100182	1	-.184060	- 2	.152782	- 1	-.395815
.8	.559824		-.816140	- 2	-.104416	- 2	.144849	1	-.263283	- 2	.217795	- 1	-.299569
1.0	.440372		-.128377	- 1	-.164864	- 2	.180999	1	-.358593	- 2	.295458	- 1	-.256686
1.2	.376698		-.187477	- 1	-.241764	- 2	.210671	1	-.470083	- 2	.385620	- 1	-.234731
1.4	.338119		-.258982	- 1	-.335461	- 2	.235172	1	-.597810	- 2	.488104	- 1	-.222655
1.6	.312590		-.342850	- 1	-.446161	- 2	.255522	1	-.741850	- 2	.602750	- 1	-.215768
1.8	.294567		-.438988	- 1	-.574009	- 2	.272545	1	-.902295	- 2	.729415	- 1	-.211802
2.0	.281198		-.547287	- 1	-.719128	- 2	.286899	1	-.107925	- 1	.867974	- 1	-.209561
2.2	.270885		-.667632	- 1	-.881630	- 2	.299100	1	-.127284	- 1	.101831		-.208376
2.4	.262674		-.799911	- 1	-.106163	- 1	.309557	1	-.148320	- 1	.118033		-.207851
2.6	.255965		-.944015	- 1	-.125924	- 1	.318589	1	-.171044	- 1	.135392		-.207747
2.8	.250362		-.109984		-.147458	- 1	.326448	1	-.195471	- 1	.153899		-.207912
3.0	.245599		-.126729		-.170779	- 1	.333335	1	-.221616	- 1	.173547		-.208249
3.2	.241484		-.144626		-.195897	- 1	.339409	1	-.249492	- 1	.194326		-.208694
3.4	.237884		-.163667		-.222827	- 1	.344799	1	-.279114	- 1	.216228		-.209206
3.6	.234696		-.183844		-.251582	- 1	.349608	1	-.310497	- 1	.239246		-.209755
3.8	.231845		-.205147		-.282175	- 1	.353921	1	-.343656	- 1	.263372		-.210322
4.0	.229274		-.227570		-.314620	- 1	.357809	1	-.378605	- 1	.288600		-.210895
4.2	.226937		-.251103		-.348932	- 1	.361328	1	-.415359	- 1	.314922		-.211465
4.4	.224799		-.275741		-.385125	- 1	.364528	1	-.453935	- 1	.342330		-.212025
4.6	.222830		-.301475		-.423212	- 1	.367447	1	-.494346	- 1	.370820		-.212572
4.8	.221008		-.328299		-.463208	- 1	.370121	1	-.536609	- 1	.400383		-.213103
5.0	.219314		-.356206		-.505128	- 1	.372577	1	-.580737	- 1	.431014		-.213617
5.2	.217732		-.385189		-.548985	- 1	.374842	1	-.626747	- 1	.462707		-.214114
5.4	.216249		-.415242		-.594795	- 1	.376935	1	-.674653	- 1	.495455		-.214592
5.6	.214854		-.446358		-.642573	- 1	.378875	1	-.724471	- 1	.529252		-.215052
5.8	.213537		-.478531		-.692332	- 1	.380678	1	-.776216	- 1	.564092		-.215495
6.0	.212290		-.511755		-.744087	- 1	.382357	1	-.829902	- 1	.599970		-.215920
6.2	.211108		-.546024		-.797853	- 1	.383925	1	-.885546	- 1	.636880		-.216329

Z = 72, A = 177

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.474850	2	-.118060	1	-.270926		-.368397		-.744108		.342127	1	-.157206	1
.6	.332124	2	-.167887	1	-.386229		-.931366	- 1	-.919066		.421464	1	-.138387	1
.8	.264183	2	-.222126	1	-.512639		.181976	- 1	-.107433	1	.491017	1	-.146589	1
1.0	.225470	2	-.279042	1	-.646390		.809298	- 1	-.121993	1	.555388	1	-.158152	1
1.2	.200801	2	-.337267	1	-.784469		.122074		-.136031	1	.616637	1	-.169336	1
1.4	.183780	2	-.395910	1	-.924907		.151485		-.149761	1	.675763	1	-.179372	1
1.6	.171310	2	-.454437	1	-.106650	1	.173693		-.163294	1	.733296	1	-.188193	1
1.8	.161739	2	-.512537	1	-.120855	1	.191108		-.176693	1	.789540	1	-.195918	1
2.0	.154120	2	-.570036	1	-.135063	1	.205150		-.189995	1	.844686	1	-.202700	1
2.2	.147875	2	-.626843	1	-.149253	1	.216717		-.203225	1	.898862	1	-.208686	1
2.4	.142633	2	-.682913	1	-.163413	1	.226405		-.216400	1	.952159	1	-.214002	1
2.6	.138148	2	-.738233	1	-.177537	1	.234633		-.229532	1	.100465	2	-.218753	1
2.8	.134249	2	-.792804	1	-.191624	1	.241700		-.242630	1	.105638	2	-.223024	1
3.0	.130813	2	-.846637	1	-.205673	1	.247827		-.255701	1	.110739	2	-.226889	1
3.2	.127751	2	-.899750	1	-.219687	1	.253183		-.268750	1	.115774	2	-.230405	1
3.4	.124997	2	-.952163	1	-.233668	1	.257898		-.281783	1	.120743	2	-.233621	1
3.6	.122499	2	-.100390	2	-.247618	1	.262073		-.294803	1	.125651	2	-.236577	1
3.8	.120217	2	-.105497	2	-.261542	1	.265788		-.307815	1	.130500	2	-.239308	1
4.0	.118120	2	-.110541	2	-.275441	1	.269109		-.320819	1	.135292	2	-.241841	1
4.2	.116182	2	-.115523	2	-.289318	1	.272090		-.333820	1	.140029	2	-.244202	1
4.4	.114383	2	-.120445	2	-.303177	1	.274773		-.346820	1	.144712	2	-.246409	1
4.6	.112705	2	-.125309	2	-.317020	1	.277197		-.359819	1	.149344	2	-.248482	1
4.8	.111134	2	-.130116	2	-.330848	1	.279390		-.372821	1	.153925	2	-.250435	1
5.0	.109659	2	-.134870	2	-.344665	1	.281380		-.385827	1	.158458	2	-.252281	1
5.2	.108270	2	-.139569	2	-.358472	1	.283188		-.398838	1	.162943	2	-.254031	1
5.4	.106957	2	-.144218	2	-.372271	1	.284833		-.411855	1	.167381	2	-.255696	1
5.6	.105714	2	-.148816	2	-.386064	1	.286331		-.424880	1	.171775	2	-.257284	1
5.8	.104534	2	-.153364	2	-.399852	1	.287696		-.437913	1	.176124	2	-.258802	1
6.0	.103411	2	-.157865	2	-.413637	1	.288941		-.450956	1	.180430	2	-.260257	1
6.2	.102341	2	-.162320	2	-.427421	1	.290076		-.464009	1	.184694	2	-.261656	1

Z = 72, A = 177

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.185704	1 -.242927 - 2	-.313284 - 3	.388590	-.126191 - 2	.103536 - 1	-.712453
.6	.878731	-.483901 - 2	-.625617 - 3	.983173	-.192185 - 2	.157264 - 1	-.400774
.8	.587256	-.840051 - 2	-.108956 - 2	.142803	1 -.274390 - 2	.223772 - 1	-.302346
1.0	.460764	-.131905 - 1	-.171725 - 2	.178792	1 -.373226 - 2	.303176 - 1	-.258598
1.2	.393411	-.192396 - 1	-.251510 - 2	.208343	1 -.488791 - 2	.395326 - 1	-.236227
1.4	.352629	-.265543 - 1	-.348662 - 2	.232755	1 -.621141 - 2	.500041 - 1	-.223929
1.6	.325650	-.351298 - 1	-.463387 - 2	.253044	1 -.770347 - 2	.617153 - 1	-.216917
1.8	.306606	-.449565 - 1	-.595828 - 2	.270024	1 -.936498 - 2	.746515 - 1	-.212879
2.0	.292479	-.560227 - 1	-.746104 - 2	.284348	1 -.111970 - 1	.887997 - 1	-.210597
2.2	.281580	-.683166 - 1	-.914326 - 2	.296529	1 -.132007 - 1	.104148	-.209388
2.4	.272901	-.818263 - 1	-.110060 - 1	.306972	1 -.153774 - 1	.120685	-.208852
2.6	.265807	-.965405 - 1	-.130505 - 1	.315994	1 -.177282 - 1	.138401	-.208743
2.8	.259883	-.112448	-.152779 - 1	.323848	1 -.202548 - 1	.157286	-.208908
3.0	.254844	-.129540	-.176894 - 1	.330731	1 -.229583 - 1	.177331	-.209249
3.2	.250491	-.147804	-.202862 - 1	.336804	1 -.258403 - 1	.198528	-.209699
3.4	.246681	-.167233	-.230697 - 1	.342193	1 -.289022 - 1	.220868	-.210217
3.6	.243306	-.187817	-.260412 - 1	.347003	1 -.321455 - 1	.244343	-.210774
3.8	.240288	-.209548	-.292021 - 1	.351317	1 -.355716 - 1	.268944	-.211349
4.0	.237566	-.232417	-.325537 - 1	.355206	1 -.391821 - 1	.294666	-.211930
4.2	.235091	-.256416	-.360974 - 1	.358728	1 -.429784 - 1	.321500	-.212507
4.4	.232825	-.281538	-.398346 - 1	.361929	1 -.469621 - 1	.349439	-.213075
4.6	.230740	-.307775	-.437668 - 1	.364851	1 -.511347 - 1	.378477	-.213629
4.8	.228809	-.335119	-.478955 - 1	.367526	1 -.554977 - 1	.408606	-.214168
5.0	.227014	-.363565	-.522219 - 1	.369985	1 -.600527 - 1	.439820	-.214690
5.2	.225337	-.393104	-.567477 - 1	.372252	1 -.648010 - 1	.472112	-.215193
5.4	.223765	-.423729	-.614742 - 1	.374347	1 -.697444 - 1	.505477	-.215678
5.6	.222286	-.455436	-.664029 - 1	.376290	1 -.748842 - 1	.539907	-.216145
5.8	.220890	-.488216	-.715352 - 1	.378095	1 -.802220 - 1	.575397	-.216594
6.0	.219569	-.522063	-.768727 - 1	.379776	1 -.857594 - 1	.611940	-.217026
6.2	.218315	-.556972	-.824168 - 1	.381346	1 -.914978 - 1	.649530	-.217440

Z = 73, A = 181

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁			
.4	.502981	2	-.122440	1	-.285038	-.370166	-.774256		.350796	1	-.155475	1	
.6	.351563	2	-.173565	1	-.405060	-.893431	- 1	-.955990	.432007	1	-.135355	1	
.8	.279383	2	-.229085	1	-.536333	.239088	- 1	-.111698	1	.503075	1	-.142876	1
1.0	.238188	2	-.287261	1	-.675023	.876729	- 1	-.126767	1	.568732	1	-.153915	1
1.2	.211899	2	-.346706	1	-.818038	.129489		-.141277	1	.631118	1	-.164666	1
1.4	.193735	2	-.406521	1	-.963355	.159382		-.155453	1	.691277	1	-.174334	1
1.6	.180413	2	-.466167	1	-.110975	1	.181938	-.169414	1	.749783	1	-.182839	1
1.8	.170180	2	-.525333	1	-.125649	1	.199665	-.183227	1	.806897	1	-.190290	1
2.0	.162027	2	-.583847	1	-.140317	1	.213944	-.196931	1	.862880	1	-.196832	1
2.2	.155340	2	-.641618	1	-.154957	1	.225706	-.210553	1	.917846	1	-.202607	1
2.4	.149725	2	-.698607	1	-.169557	1	.235558	-.224112	1	.971893	1	-.207735	1
2.6	.144919	2	-.754800	1	-.184112	1	.243924	-.237619	1	.102509	2	-.212318	1
2.8	.140739	2	-.810203	1	-.198620	1	.251108	-.251085	1	.107750	2	-.216439	1
3.0	.137055	2	-.864830	1	-.213082	1	.257337	-.264517	1	.112916	2	-.220168	1
3.2	.133772	2	-.918699	1	-.227501	1	.262780	-.277923	1	.118012	2	-.223561	1
3.4	.130819	2	-.971832	1	-.241879	1	.267569	-.291305	1	.123040	2	-.226665	1
3.6	.128140	2	-.102425	2	-.256220	1	.271808	-.304670	1	.128004	2	-.229520	1
3.8	.125694	2	-.107598	2	-.270527	1	.275579	-.318020	1	.132907	2	-.232157	1
4.0	.123445	2	-.112705	2	-.284803	1	.278948	-.331359	1	.137749	2	-.234604	1
4.2	.121367	2	-.117747	2	-.299051	1	.281969	-.344690	1	.142535	2	-.236886	1
4.4	.119438	2	-.122726	2	-.313274	1	.284688	-.358015	1	.147264	2	-.239020	1
4.6	.117639	2	-.127644	2	-.327476	1	.287141	-.371335	1	.151940	2	-.241025	1
4.8	.115956	2	-.132504	2	-.341658	1	.289360	-.384654	1	.156564	2	-.242915	1
5.0	.114375	2	-.137307	2	-.355823	1	.291370	-.397972	1	.161137	2	-.244702	1
5.2	.112887	2	-.142055	2	-.369973	1	.293195	-.411292	1	.165660	2	-.246397	1
5.4	.111480	2	-.146748	2	-.384111	1	.294854	-.424614	1	.170135	2	-.248010	1
5.6	.110148	2	-.151389	2	-.398238	1	.296362	-.437940	1	.174564	2	-.249550	1
5.8	.108884	2	-.155979	2	-.412356	1	.297735	-.451271	1	.178946	2	-.251023	1
6.0	.107682	2	-.160520	2	-.426466	1	.298985	-.464608	1	.183284	2	-.252436	1
6.2	.106536	2	-.165012	2	-.440570	1	.300122	-.477952	1	.187578	2	-.253795	1

Z = 73, A = 181

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.196463	1	-.252754	- 2	-.330479	- 3	.370486		-.132538	- 2	.107218	- 1	-.726840
.6	.924816		-.501177	- 2	-.656934	- 3	.964963		-.201323	- 2	.162433	- 1	-.405719
.8	.615803		-.867666	- 2	-.114096	- 2	.140812	1	-.286907	- 2	.230705	- 1	-.305076
1.0	.481929		-.136002	- 1	-.179505	- 2	.176650	1	-.389745	- 2	.312170	- 1	-.260455
1.2	.410722		-.198130	- 1	-.262582	- 2	.206088	1	-.509939	- 2	.406677	- 1	-.237663
1.4	.367634		-.273215	- 1	-.363679	- 2	.230420	1	-.647546	- 2	.514038	- 1	-.225142
1.6	.339139		-.361203	- 1	-.483006	- 2	.250652	1	-.802632	- 2	.634081	- 1	-.218004
1.8	.319026		-.461990	- 1	-.620703	- 2	.267594	1	-.975286	- 2	.766650	- 1	-.213893
2.0	.304106		-.575456	- 1	-.776889	- 2	.281892	1	-.116561	- 1	.911610	- 1	-.211569
2.2	.292594		-.701474	- 1	-.951672	- 2	.294057	1	-.137372	- 1	.106883		-.210336
2.4	.283425		-.839921	- 1	-.114516	- 1	.304489	1	-.159975	- 1	.123821		-.209788
2.6	.275930		-.990677	- 1	-.135747	- 1	.313505	1	-.184381	- 1	.141962		-.209675
2.8	.269669		-.115363		-.158871	- 1	.321355	1	-.210606	- 1	.161298		-.209841
3.0	.264342		-.132867		-.183901	- 1	.328238	1	-.238663	- 1	.181818		-.210184
3.2	.259739		-.151570		-.210850	- 1	.334310	1	-.268566	- 1	.203514		-.210640
3.4	.255709		-.171461		-.239729	- 1	.339701	1	-.300330	- 1	.226377		-.211165
3.6	.252139		-.192532		-.270554	- 1	.344513	1	-.333970	- 1	.250397		-.211728
3.8	.248946		-.214773		-.303336	- 1	.348830	1	-.369500	- 1	.275568		-.212311
4.0	.246065		-.238175		-.338091	- 1	.352722	1	-.406936	- 1	.301881		-.212900
4.2	.243445		-.262731		-.374831	- 1	.356246	1	-.446294	- 1	.329329		-.213485
4.4	.241047		-.288432		-.413572	- 1	.359451	1	-.487587	- 1	.357904		-.214060
4.6	.238838		-.315270		-.454327	- 1	.362376	1	-.530832	- 1	.387598		-.214623
4.8	.236794		-.343238		-.497112	- 1	.365055	1	-.576043	- 1	.418406		-.215169
5.0	.234893		-.372329		-.541939	- 1	.367517	1	-.623237	- 1	.450319		-.215698
5.2	.233117		-.402534		-.588825	- 1	.369786	1	-.672428	- 1	.483331		-.216208
5.4	.231452		-.433847		-.637784	- 1	.371885	1	-.723631	- 1	.517435		-.216700
5.6	.229885		-.466261		-.688830	- 1	.373830	1	-.776863	- 1	.552625		-.217174
5.8	.228406		-.499769		-.741979	- 1	.375638	1	-.832139	- 1	.588894		-.217629
6.0	.227006		-.534365		-.797244	- 1	.377322	1	-.889473	- 1	.626237		-.218067
6.2	.225678		-.570041		-.854642	- 1	.378895	1	-.948882	- 1	.664645		-.218487

Z = 74, A = 182

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.533925	2	-.127114	1	-.300058		-.371770		-.806327		.360068	1	-.153759	1
.6	.372941	2	-.179631	1	-.425068		-.853467	- 1	-.995255		.443289	1	-.132375	1
.8	.296094	2	-.236527	1	-.561467		.298409	- 1	-.116231	1	.515986	1	-.139239	1
1.0	.252166	2	-.296054	1	-.705351		.946500	- 1	-.131840	1	.583034	1	-.149773	1
1.2	.224091	2	-.356811	1	-.853544		.137148		-.146848	1	.646652	1	-.160108	1
1.4	.204669	2	-.417888	1	-.100397	1	.167533		-.161494	1	.707933	1	-.169423	1
1.6	.190408	2	-.478742	1	-.115538	1	.190484		-.175904	1	.767457	1	-.177625	1
1.8	.179443	2	-.539060	1	-.130702	1	.208489		-.190150	1	.825564	1	-.184812	1
2.0	.170702	2	-.598673	1	-.145850	1	.223011		-.204275	1	.882464	1	-.191124	1
2.2	.163527	2	-.657493	1	-.160957	1	.234973		-.218307	1	.938300	1	-.196696	1
2.4	.157501	2	-.715481	1	-.176014	1	.244993		-.232264	1	.993173	1	-.201643	1
2.6	.152340	2	-.772628	1	-.191014	1	.253502		-.246162	1	.104716	2	-.206065	1
2.8	.147851	2	-.828942	1	-.205958	1	.260808		-.260011	1	.110032	2	-.210041	1
3.0	.143894	2	-.884439	1	-.220847	1	.267141		-.273819	1	.115270	2	-.213639	1
3.2	.140368	2	-.939141	1	-.235684	1	.272674		-.287592	1	.120435	2	-.216913	1
3.4	.137195	2	-.993072	1	-.250471	1	.277541		-.301337	1	.125529	2	-.219909	1
3.6	.134317	2	-.104626	2	-.265213	1	.281847		-.315057	1	.130557	2	-.222665	1
3.8	.131688	2	-.109872	2	-.279914	1	.285676		-.328757	1	.135520	2	-.225211	1
4.0	.129273	2	-.115049	2	-.294576	1	.289096		-.342440	1	.140421	2	-.227575	1
4.2	.127041	2	-.120158	2	-.309204	1	.292161		-.356109	1	.145262	2	-.229778	1
4.4	.124969	2	-.125201	2	-.323800	1	.294918		-.369767	1	.150045	2	-.231841	1
4.6	.123038	2	-.130182	2	-.338368	1	.297404		-.383417	1	.154773	2	-.233779	1
4.8	.121230	2	-.135102	2	-.352910	1	.299650		-.397059	1	.159446	2	-.235607	1
5.0	.119533	2	-.139962	2	-.367430	1	.301684		-.410697	1	.164067	2	-.237335	1
5.2	.117935	2	-.144764	2	-.381929	1	.303528		-.424331	1	.168636	2	-.238976	1
5.4	.116426	2	-.149510	2	-.396410	1	.305202		-.437964	1	.173155	2	-.240538	1
5.6	.114997	2	-.154202	2	-.410876	1	.306724		-.451597	1	.177625	2	-.242029	1
5.8	.113641	2	-.158841	2	-.425327	1	.308107		-.465230	1	.182048	2	-.243457	1
6.0	.112351	2	-.163428	2	-.439766	1	.309364		-.478866	1	.186425	2	-.244826	1
6.2	.111122	2	-.167965	2	-.454194	1	.310506		-.492505	1	.190756	2	-.246144	1

Z = 74, A = 182

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.208019	1	-.261625	- 2	-.346655	- 3	.352614		-.138457	- 2	.110457	- 1	-.741479
.6	.974213		-.516425	- 2	-.685958	- 3	.947174		-.209771	- 2	.166913	- 1	-.410648
.8	.646356		-.891638	- 2	-.118810	- 2	.138876	1	-.298398	- 2	.236641	- 1	-.307759
1.0	.504560		-.139514	- 1	-.186587	- 2	.174572	1	-.404825	- 2	.319798	- 1	-.262254
1.2	.429218		-.203002	- 1	-.272599	- 2	.203904	1	-.529158	- 2	.416231	- 1	-.239039
1.4	.383656		-.279686	- 1	-.377204	- 2	.228162	1	-.671451	- 2	.525750	- 1	-.226292
1.6	.353535		-.369507	- 1	-.500606	- 2	.248344	1	-.831766	- 2	.648174	- 1	-.219027
1.8	.332277		-.472358	- 1	-.642944	- 2	.265252	1	-.101019	- 1	.783345	- 1	-.214843
2.0	.316507		-.588110	- 1	-.804332	- 2	.279529	1	-.120681	- 1	.931118	- 1	-.212477
2.2	.304338		-.716633	- 1	-.984875	- 2	.291680	1	-.142176	- 1	.109136		-.211221
2.4	.294644		-.857798	- 1	-.118468	- 1	.302105	1	-.165514	- 1	.126396		-.210661
2.6	.286718		-.101148		-.140385	- 1	.311118	1	-.190710	- 1	.144880		-.210543
2.8	.280095		-.117756		-.164251	- 1	.318967	1	-.217776	- 1	.164578		-.210709
3.0	.274459		-.135593		-.190076	- 1	.325851	1	-.246725	- 1	.185479		-.211056
3.2	.269589		-.154648		-.217875	- 1	.331926	1	-.277574	- 1	.207575		-.211517
3.4	.265323		-.174911		-.247658	- 1	.337320	1	-.310335	- 1	.230855		-.212048
3.6	.261544		-.196372		-.279441	- 1	.342135	1	-.345024	- 1	.255312		-.212618
3.8	.258162		-.219021		-.313235	- 1	.346456	1	-.381655	- 1	.280937		-.213209
4.0	.255111		-.242851		-.349054	- 1	.350352	1	-.420243	- 1	.307721		-.213805
4.2	.252336		-.267051		-.386913	- 1	.353881	1	-.460804	- 1	.335656		-.214398
4.4	.249795		-.294013		-.426826	- 1	.357090	1	-.503353	- 1	.364736		-.214981
4.6	.247456		-.321331		-.468806	- 1	.360019	1	-.547904	- 1	.394952		-.215551
4.8	.245290		-.349794		-.512869	- 1	.362702	1	-.594473	- 1	.426297		-.216105
5.0	.243275		-.379397		-.559028	- 1	.365168	1	-.643076	- 1	.458763		-.216641
5.2	.241392		-.410130		-.607298	- 1	.367441	1	-.693727	- 1	.492344		-.217159
5.4	.239627		-.441988		-.657694	- 1	.369544	1	-.746442	- 1	.527033		-.217657
5.6	.237967		-.474962		-.710230	- 1	.371493	1	-.801237	- 1	.562823		-.218137
5.8	.236399		-.509046		-.764921	- 1	.373304	1	-.858127	- 1	.599707		-.218599
6.0	.234915		-.544232		-.821782	- 1	.374992	1	-.917126	- 1	.637679		-.219043
6.2	.233507		-.580515		-.880827	- 1	.376567	1	-.978251	- 1	.676732		-.219469

Z = 75, A = 187

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁			
.4	.565720	2	-.131827	1	-.315609	-.373205	-.838642		.369159	1	-.152062	1	
.6	.394881	2	-.185716	1	-.445718	-.811463	- 1	-.103481	1	.454336	1	-.129449	1
.8	.313222	2	-.243957	1	-.587336	.359949	- 1	-.120795	1	.528610	1	-.135680	1
1.0	.266469	2	-.304797	1	-.736495	.101861		-.136945	1	.596989	1	-.145730	1
1.2	.236545	2	-.366818	1	-.889941	.145050		-.152451	1	.661777	1	-.155666	1
1.4	.215816	2	-.429104	1	-.104554	1	.175933	-.167566	1	.724111	1	-.164644	1
1.6	.200580	2	-.491108	1	-.120202	1	.199265	-.182424	1	.784603	1	-.172557	1
1.8	.188855	2	-.552516	1	-.135863	1	.217572	-.197102	1	.843607	1	-.179494	1
2.0	.179501	2	-.613161	1	-.151494	1	.232338	-.211646	1	.901346	1	-.185588	1
2.2	.171819	2	-.672958	1	-.167074	1	.244502	-.226085	1	.957970	1	-.190967	1
2.4	.165364	2	-.731872	1	-.182591	1	.254692	-.240441	1	.101359	2	-.195744	1
2.6	.159834	2	-.789897	1	-.198042	1	.263342	-.254728	1	.106827	2	-.200014	1
2.8	.155023	2	-.847042	1	-.213426	1	.270769	-.268958	1	.112210	2	-.203854	1
3.0	.150782	2	-.903328	1	-.228745	1	.277205	-.283139	1	.117511	2	-.207330	1
3.2	.147001	2	-.958778	1	-.244003	1	.282826	-.297279	1	.122735	2	-.210494	1
3.4	.143600	2	-.101342	2	-.259204	1	.287769	-.311384	1	.127886	2	-.213389	1
3.6	.140515	2	-.106728	2	-.274350	1	.292140	-.325458	1	.132967	2	-.216053	1
3.8	.137697	2	-.112038	2	-.289448	1	.296024	-.339506	1	.137981	2	-.218516	1
4.0	.135108	2	-.117276	2	-.304500	1	.299491	-.353532	1	.142931	2	-.220803	1
4.2	.132716	2	-.122443	2	-.319510	1	.302597	-.367539	1	.147818	2	-.222936	1
4.4	.130495	2	-.127541	2	-.334483	1	.305387	-.381530	1	.152645	2	-.224934	1
4.6	.128426	2	-.132574	2	-.349420	1	.307900	-.395507	1	.157413	2	-.226812	1
4.8	.126490	2	-.137543	2	-.364326	1	.310170	-.409473	1	.162125	2	-.228584	1
5.0	.124672	2	-.142450	2	-.379204	1	.312222	-.423429	1	.166783	2	-.230261	1
5.2	.122960	2	-.147297	2	-.394056	1	.314081	-.437378	1	.171387	2	-.231853	1
5.4	.121344	2	-.152086	2	-.408884	1	.315766	-.451321	1	.175939	2	-.233370	1
5.6	.119814	2	-.156817	2	-.423691	1	.317295	-.465260	1	.180440	2	-.234819	1
5.8	.118362	2	-.161494	2	-.438479	1	.318682	-.479196	1	.184892	2	-.236207	1
6.0	.116982	2	-.166117	2	-.453250	1	.319940	-.493130	1	.189296	2	-.237540	1
6.2	.115667	2	-.170688	2	-.468006	1	.321082	-.507063	1	.193653	2	-.238823	1

Z = 75, A = 187

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.220021	1	-.272617	- 2	-.366142	- 3	.334963		-.145578	- 2	.114549	- 1	-.756378
.6	.102526	1	-.535712	- 2	-.721268	- 3	.929791		-.220005	- 2	.172663	- 1	-.415561
.8	.677797		-.922438	- 2	-.124587	- 2	.136991	1	-.312393	- 2	.244356	- 1	-.310394
1.0	.527772		-.144081	- 1	-.195314	- 2	.172555	1	-.423272	- 2	.329808	- 1	-.263997
1.2	.448142		-.209392	- 1	-.285000	- 2	.201789	1	-.552754	- 2	.428865	- 1	-.240354
1.4	.400017		-.288233	- 1	-.394006	- 2	.225979	1	-.700890	- 2	.541330	- 1	-.227380
1.6	.368211		-.380540	- 1	-.522539	- 2	.246116	1	-.867742	- 2	.667015	- 1	-.219988
1.8	.345767		-.486196	- 1	-.670737	- 2	.262996	1	-.105339	- 1	.805754	- 1	-.215730
2.0	.329117		-.605067	- 1	-.838711	- 2	.277255	1	-.125793	- 1	.957396	- 1	-.213321
2.2	.316267		-.737016	- 1	-.102656	- 1	.289397	1	-.148148	- 1	.112180		-.212041
2.4	.306029		-.881906	- 1	-.123440	- 1	.299817	1	-.172415	- 1	.129885		-.211469
2.6	.297656		-.103961		-.146233	- 1	.308830	1	-.198608	- 1	.148842		-.211346
2.8	.290659		-.121000		-.171046	- 1	.316681	1	-.226740	- 1	.169041		-.211512
3.0	.284703		-.139296		-.197891	- 1	.323567	1	-.256824	- 1	.190470		-.211862
3.2	.279554		-.158837		-.226780	- 1	.329647	1	-.288876	- 1	.213120		-.212328
3.4	.275044		-.179614		-.257727	- 1	.335045	1	-.322909	- 1	.236981		-.212865
3.6	.271048		-.201615		-.290744	- 1	.339866	1	-.358939	- 1	.262045		-.213443
3.8	.267472		-.224832		-.325846	- 1	.344193	1	-.396980	- 1	.288301		-.214041
4.0	.264244		-.249254		-.363044	- 1	.348094	1	-.437047	- 1	.315742		-.214645
4.2	.261308		-.274872		-.402354	- 1	.351628	1	-.479157	- 1	.344358		-.215246
4.4	.258620		-.301678		-.443791	- 1	.354842	1	-.523323	- 1	.374143		-.215837
4.6	.256144		-.329663		-.487367	- 1	.357777	1	-.569561	- 1	.405088		-.216414
4.8	.253851		-.358818		-.533097	- 1	.360465	1	-.617888	- 1	.437186		-.216976
5.0	.251718		-.389136		-.580997	- 1	.362936	1	-.668318	- 1	.470428		-.217519
5.2	.249726		-.420609		-.631080	- 1	.365214	1	-.720866	- 1	.504807		-.218043
5.4	.247857		-.453229		-.683362	- 1	.367321	1	-.775549	- 1	.540317		-.218549
5.6	.246099		-.486988		-.737857	- 1	.369274	1	-.832382	- 1	.576949		-.219036
5.8	.244439		-.521880		-.794581	- 1	.371090	1	-.891380	- 1	.614698		-.219503
6.0	.242867		-.557896		-.853547	- 1	.372781	1	-.952559	- 1	.653556		-.219953
6.2	.241376		-.595030		-.914771	- 1	.374361	1	-.101593		.693516		-.220385

Z = 76, A = 188

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.601086	2	-.136903	1	-.332243		-.374462		-.873319		.379016	1	-.150374	1
.6	.419282	2	-.192283	1	-.467775		-.767337	- 1	-.107723	1	.466322	1	-.126567	1
.8	.332267	2	-.251987	1	-.614928		.423814	- 1	-.125689	1	.542319	1	-.132188	1
1.0	.282372	2	-.314257	1	-.769670		.109321		-.142416	1	.612164	1	-.141772	1
1.2	.250388	2	-.377661	1	-.928661		.153212		-.158452	1	.678244	1	-.151325	1
1.4	.228206	2	-.441273	1	-.108972	1	.184604		-.174066	1	.741749	1	-.159979	1
1.6	.211884	2	-.504540	1	-.125153	1	.208326		-.189400	1	.803320	1	-.167614	1
1.8	.199312	2	-.567151	1	-.141334	1	.226942		-.204535	1	.863331	1	-.174310	1
2.0	.189275	2	-.628939	1	-.157472	1	.241960		-.219520	1	.922017	1	-.180193	1
2.2	.181029	2	-.689823	1	-.173546	1	.254333		-.234389	1	.979534	1	-.185386	1
2.4	.174095	2	-.749770	1	-.189545	1	.264697		-.249163	1	.103600	2	-.189999	1
2.6	.168155	2	-.808779	1	-.205465	1	.273495		-.263858	1	.109149	2	-.194122	1
2.8	.162985	2	-.866861	1	-.221307	1	.281048		-.278486	1	.114608	2	-.197831	1
3.0	.158427	2	-.924040	1	-.237073	1	.287592		-.293058	1	.119982	2	-.201188	1
3.2	.154364	2	-.980343	1	-.252768	1	.293306		-.307581	1	.125276	2	-.204244	1
3.4	.150709	2	-.103580	2	-.268396	1	.298328		-.322060	1	.130494	2	-.207042	1
3.6	.147393	2	-.109043	2	-.283961	1	.302768		-.336503	1	.135639	2	-.209616	1
3.8	.144365	2	-.114428	2	-.299467	1	.306712		-.350913	1	.140714	2	-.211997	1
4.0	.141583	2	-.119736	2	-.314921	1	.310230		-.365294	1	.145721	2	-.214208	1
4.2	.139013	2	-.124971	2	-.330325	1	.313380		-.379650	1	.150664	2	-.216272	1
4.4	.136628	2	-.130135	2	-.345683	1	.316207		-.393985	1	.155544	2	-.218205	1
4.6	.134405	2	-.135230	2	-.361000	1	.318753		-.408300	1	.160364	2	-.220022	1
4.8	.132326	2	-.140259	2	-.376278	1	.321049		-.422598	1	.165126	2	-.221738	1
5.0	.130374	2	-.145223	2	-.391522	1	.323124		-.436882	1	.169830	2	-.223362	1
5.2	.128536	2	-.150125	2	-.406733	1	.325001		-.451154	1	.174479	2	-.224906	1
5.4	.126802	2	-.154966	2	-.421914	1	.326701		-.465415	1	.179074	2	-.226377	1
5.6	.125160	2	-.159748	2	-.437069	1	.328240		-.479667	1	.183617	2	-.227782	1
5.8	.123602	2	-.164472	2	-.452199	1	.329636		-.493911	1	.188108	2	-.229130	1
6.0	.122122	2	-.169141	2	-.467307	1	.330900		-.508150	1	.192550	2	-.230424	1
6.2	.120711	2	-.173756	2	-.482394	1	.332044		-.522384	1	.196943	2	-.231670	1

Z = 76, A = 188

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.232977	1	-.282190	- 2	-.383945	- 3	.317519		-.152020	- 2	.118004	- 1	-.771547
.6	.108028	1	-.552064	- 2	-.752966	- 3	.912798		-.229168	- 2	.177433	- 1	-.420458
.8	.711655		-.948044	- 2	-.129709	- 2	.135156	1	-.324819	- 2	.250665	- 1	-.312980
1.0	.552753		-.147823	- 1	-.202982	- 2	.170597	1	-.439542	- 2	.337901	- 1	-.265682
1.2	.468497		-.214571	- 1	-.295819	- 2	.199740	1	-.573452	- 2	.438989	- 1	-.241607
1.4	.417608		-.295100	- 1	-.408584	- 2	.223868	1	-.726598	- 2	.553726	- 1	-.228405
1.6	.383986		-.389341	- 1	-.541481	- 2	.243966	1	-.899036	- 2	.681918	- 1	-.220884
1.8	.360264		-.497171	- 1	-.694644	- 2	.260822	1	-.109084	- 1	.823391	- 1	-.216552
2.0	.342665		-.618450	- 1	-.868177	- 2	.275068	1	-.130210	- 1	.977990	- 1	-.214100
2.2	.329081		-.753034	- 1	-.106218	- 1	.287204	1	-.153294	- 1	.114557		-.212796
2.4	.318256		-.900782	- 1	-.127675	- 1	.297623	1	-.178345	- 1	.132601		-.212212
2.6	.309403		-.106156		-.151200	- 1	.306637	1	-.205378	- 1	.151917		-.212084
2.8	.302001		-.123523		-.176803	- 1	.314492	1	-.234405	- 1	.172495		-.212250
3.0	.295700		-.142168		-.204495	- 1	.321385	1	-.265440	- 1	.194324		-.212603
3.2	.290253		-.162080		-.234290	- 1	.327470	1	-.298496	- 1	.217392		-.213074
3.4	.285479		-.183246		-.266198	- 1	.332875	1	-.333590	- 1	.241691		-.213617
3.6	.281249		-.205656		-.300234	- 1	.337703	1	-.370734	- 1	.267211		-.214202
3.8	.277463		-.229300		-.336411	- 1	.342036	1	-.409944	- 1	.293941		-.214808
4.0	.274045		-.254169		-.374741	- 1	.345945	1	-.451234	- 1	.321875		-.215419
4.2	.270935		-.280252		-.415239	- 1	.349486	1	-.494621	- 1	.351002		-.216028
4.4	.268088		-.307541		-.457919	- 1	.352706	1	-.540118	- 1	.381314		-.216627
4.6	.265465		-.336026		-.502795	- 1	.355647	1	-.587742	- 1	.412803		-.217212
4.8	.263036		-.365699		-.549881	- 1	.358341	1	-.637508	- 1	.445462		-.217780
5.0	.260776		-.396552		-.599192	- 1	.360818	1	-.689431	- 1	.479282		-.218331
5.2	.258665		-.428577		-.650743	- 1	.363101	1	-.743526	- 1	.514255		-.218863
5.4	.256685		-.461765		-.704547	- 1	.365213	1	-.799810	- 1	.550374		-.219375
5.6	.254821		-.496109		-.760620	- 1	.367172	1	-.858297	- 1	.587632		-.219868
5.8	.253062		-.531601		-.818977	- 1	.368992	1	-.919003	- 1	.626021		-.220342
6.0	.251397		-.568234		-.879632	- 1	.370688	1	-.981943	- 1	.665535		-.220798
6.2	.249816		-.605999		-.942599	- 1	.372272	1	-.104713		.706165		-.221236

Z = 77, A = 191

P	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.638217	2	-.142109	1	-.349607		-.375537		-.908826		.388933	1	-.148699	1
.6	.444877	2	-.198996	1	-.490740		-.721072	- 1	-.112066	1	.478372	1	-.123732	1
.8	.352223	2	-.260170	1	-.643587		.490023	- 1	-.130695	1	.556089	1	-.128765	1
1.0	.299012	2	-.323871	1	-.804056		.117030		-.148010	1	.627387	1	-.137902	1
1.2	.264855	2	-.388652	1	-.968725		.161636		-.164585	1	.694741	1	-.147087	1
1.4	.241134	2	-.453577	1	-.113536	1	.193545		-.180704	1	.759395	1	-.155431	1
1.6	.223662	2	-.518092	1	-.130262	1	.217663		-.196518	1	.822018	1	-.162800	1
1.8	.210193	2	-.581885	1	-.146974	1	.236594		-.212115	1	.883005	1	-.169266	1
2.0	.199433	2	-.644793	1	-.163628	1	.251868		-.227547	1	.942602	1	-.174949	1
2.2	.190588	2	-.706736	1	-.180205	1	.264452		-.242849	1	.100098	2	-.179966	1
2.4	.183140	2	-.767686	1	-.196693	1	.274993		-.258044	1	.105825	2	-.184423	1
2.6	.176772	2	-.827645	1	-.213090	1	.283941		-.273150	1	.111450	2	-.188407	1
2.8	.171222	2	-.886628	1	-.229396	1	.291620		-.288181	1	.116982	2	-.191992	1
3.0	.166329	2	-.944663	1	-.245616	1	.298272		-.303145	1	.122424	2	-.195237	1
3.2	.161967	2	-.100178	2	-.261754	1	.304078		-.318052	1	.127783	2	-.198192	1
3.4	.158042	2	-.105800	2	-.277815	1	.309180		-.332909	1	.133063	2	-.200897	1
3.6	.154482	2	-.111337	2	-.293803	1	.313688		-.347722	1	.138266	2	-.203388	1
3.8	.151231	2	-.116792	2	-.309725	1	.317690		-.362495	1	.143397	2	-.205692	1
4.0	.148245	2	-.122167	2	-.325584	1	.321258		-.377233	1	.148458	2	-.207833	1
4.2	.145486	2	-.127464	2	-.341386	1	.324449		-.391940	1	.153451	2	-.209832	1
4.4	.142927	2	-.132688	2	-.357135	1	.327312		-.406619	1	.158380	2	-.211705	1
4.6	.140542	2	-.137841	2	-.372835	1	.329887		-.421273	1	.163245	2	-.213467	1
4.8	.138311	2	-.142923	2	-.388489	1	.332207		-.435905	1	.168050	2	-.215131	1
5.0	.136218	2	-.147939	2	-.404102	1	.334301		-.450517	1	.172795	2	-.216707	1
5.2	.134247	2	-.152890	2	-.419676	1	.336193		-.465112	1	.177483	2	-.218206	1
5.4	.132387	2	-.157778	2	-.435214	1	.337904		-.479692	1	.182115	2	-.219635	1
5.6	.130627	2	-.162605	2	-.450719	1	.339452		-.494258	1	.186693	2	-.221002	1
5.8	.128958	2	-.167372	2	-.466195	1	.340851		-.508812	1	.191218	2	-.222312	1
6.0	.127371	2	-.172081	2	-.481642	1	.342117		-.523355	1	.195691	2	-.223571	1
6.2	.125861	2	-.176734	2	-.497063	1	.343260		-.537890	1	.200114	2	-.224785	1

Z = 77, A = 191

p	$\overline{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.246568	1	-.293048	- 2	-.403938	- 3	.300271		-.159232	- 2	.121955	- 1	-.786994
.6	.113776	1	-.570788	- 2	-.788683	- 3	.896181		-.239455	- 2	.182929	- 1	-.425339
.8	.746913		-.977577	- 2	-.135496	- 2	.133369	1	-.338800	- 2	.257979	- 1	-.315518
1.0	.578699		-.152162	- 1	-.211664	- 2	.168695	1	-.457880	- 2	.347329	- 1	-.267309
1.2	.489598		-.220603	- 1	-.308091	- 2	.197755	1	-.596817	- 2	.450827	- 1	-.242800
1.4	.435815		-.303127	- 1	-.425144	- 2	.221828	1	-.755655	- 2	.568264	- 1	-.229366
1.6	.400292		-.399658	- 1	-.563026	- 2	.241891	1	-.934446	- 2	.699439	- 1	-.221716
1.8	.375231		-.510066	- 1	-.721866	- 2	.258728	1	-.113326	- 1	.844171	- 1	-.217309
2.0	.356639		-.634205	- 1	-.901767	- 2	.272965	1	-.135219	- 1	.100230		-.214814
2.2	.342287		-.771923	- 1	-.110282	- 1	.285098	1	-.159134	- 1	.117367		-.213486
2.4	.330849		-.923073	- 1	-.132513	- 1	.295519	1	-.185081	- 1	.135815		-.212889
2.6	.321492		-.108751		-.156879	- 1	.304538	1	-.213075	- 1	.155561		-.212756
2.8	.313668		-.126511		-.183390	- 1	.312400	1	-.243127	- 1	.176592		-.212922
3.0	.307006		-.145573		-.212059	- 1	.319300	1	-.275251	- 1	.198899		-.213278
3.2	.301244		-.165926		-.242896	- 1	.325393	1	-.309461	- 1	.222469		-.213754
3.4	.296195		-.187558		-.275915	- 1	.330807	1	-.345772	- 1	.247293		-.214303
3.6	.291720		-.210457		-.311127	- 1	.335643	1	-.384197	- 1	.273359		-.214895
3.8	.287714		-.234614		-.348547	- 1	.339985	1	-.424752	- 1	.300660		-.215508
4.0	.284096		-.260018		-.388187	- 1	.343901	1	-.467452	- 1	.329184		-.216128
4.2	.280805		-.286659		-.430062	- 1	.347450	1	-.512312	- 1	.358924		-.216744
4.4	.277791		-.314527		-.474185	- 1	.350678	1	-.559347	- 1	.389870		-.217350
4.6	.275014		-.343613		-.520570	- 1	.353626	1	-.608571	- 1	.422015		-.217943
4.8	.272443		-.373909		-.569232	- 1	.356327	1	-.660002	- 1	.455348		-.218519
5.0	.270050		-.405405		-.620185	- 1	.358810	1	-.713654	- 1	.489863		-.219077
5.2	.267814		-.438094		-.673443	- 1	.361100	1	-.769542	- 1	.525552		-.219615
5.4	.265717		-.471965		-.729022	- 1	.363218	1	-.827682	- 1	.562405		-.220134
5.6	.263744		-.507013		-.786936	- 1	.365182	1	-.888090	- 1	.600417		-.220634
5.8	.261881		-.543228		-.847200	- 1	.367008	1	-.950781	- 1	.639579		-.221114
6.0	.260117		-.580603		-.909827	- 1	.368710	1	-.101577		.679883		-.221576
6.2	.258443		-.619130		-.974835	- 1	.370299	1	-.108307		.721323		-.222020

Z = 78, A = 194

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.677968	2	-.147537	1	-.367883		-.376424		-.945752		.399161	1	-.147033	1
.6	.472259	2	-.205984	1	-.514856		-.672608	- 1	-.116580	1	.490795	1	-.120940	1
.8	.373554	2	-.268674	1	-.673619		.558651	- 1	-.135898	1	.570280	1	-.125406	1
1.0	.316783	2	-.333847	1	-.840024		.124997		-.153820	1	.643069	1	-.134113	1
1.2	.280288	2	-.400041	1	-.101057	1	.170330		-.170950	1	.711728	1	-.142945	1
1.4	.254913	2	-.466312	1	-.118296	1	.202767		-.187589	1	.777553	1	-.150991	1
1.6	.236202	2	-.532102	1	-.135584	1	.227290		-.203090	1	.841248	1	-.158106	1
1.8	.221767	2	-.597102	1	-.152842	1	.246543		-.219968	1	.903226	1	-.164353	1
2.0	.210227	2	-.661149	1	-.170028	1	.262078		-.235857	1	.963740	1	-.169844	1
2.2	.200737	2	-.724169	1	-.187120	1	.274878		-.251602	1	.102299	2	-.174693	1
2.4	.192751	2	-.786138	1	-.204110	1	.285600		-.267228	1	.108107	2	-.179001	1
2.6	.185906	2	-.847060	1	-.220995	1	.294700		-.282753	1	.113810	2	-.182853	1
2.8	.179946	2	-.906956	1	-.237777	1	.302509		-.298193	1	.119414	2	-.186319	1
3.0	.174691	2	-.965855	1	-.254461	1	.309271		-.313557	1	.124926	2	-.189457	1
3.2	.170006	2	-.102379	2	-.271051	1	.315171		-.328856	1	.130350	2	-.192316	1
3.4	.165791	2	-.108079	2	-.287553	1	.320353		-.344096	1	.135691	2	-.194934	1
3.6	.161969	2	-.113690	2	-.303973	1	.324930		-.359285	1	.140953	2	-.197345	1
3.8	.158478	2	-.119214	2	-.320317	1	.328990		-.374426	1	.146140	2	-.199576	1
4.0	.155272	2	-.124656	2	-.336589	1	.332607		-.389526	1	.151253	2	-.201650	1
4.2	.152311	2	-.130017	2	-.352796	1	.335840		-.404588	1	.156297	2	-.203587	1
4.4	.149564	2	-.135301	2	-.368941	1	.338739		-.419616	1	.161273	2	-.205404	1
4.6	.147005	2	-.140510	2	-.385029	1	.341342		-.434613	1	.166184	2	-.207113	1
4.8	.144611	2	-.145647	2	-.401065	1	.343686		-.449582	1	.171031	2	-.208728	1
5.0	.142366	2	-.150714	2	-.417052	1	.345799		-.464526	1	.175817	2	-.210260	1
5.2	.140253	2	-.155714	2	-.432993	1	.347705		-.479448	1	.180543	2	-.211716	1
5.4	.138258	2	-.160648	2	-.448892	1	.349426		-.494349	1	.185212	2	-.213105	1
5.6	.136372	2	-.165519	2	-.464752	1	.350980		-.509231	1	.189824	2	-.214435	1
5.8	.134582	2	-.170327	2	-.480575	1	.352383		-.524097	1	.194382	2	-.215710	1
6.0	.132882	2	-.175076	2	-.496365	1	.353648		-.538947	1	.198886	2	-.216937	1
6.2	.131264	2	-.179766	2	-.512123	1	.354789		-.553784	1	.203337	2	-.218120	1

Z = 78, A = 194

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.260962	1 -.304308 - 2	-.424886 - 3	.283207	-.166747 - 2	.126028 - 1	-.802730
.6	.119845	1 -.590142 - 2	-.825961 - 3	.879927	-.250154 - 2	.188588 - 1	-.430204
.8	.784040	-.100804 - 1	-.141520 - 2	.131629	1 -.353321 - 2	.265502 - 1	-.318007
1.0	.605969	-.156632 - 1	-.220687 - 2	.166848	1 -.476904 - 2	.357018 - 1	-.268878
1.2	.511742	-.226808 - 1	-.320827 - 2	.195831	1 -.621033 - 2	.462984 - 1	-.243929
1.4	.454899	-.311376 - 1	-.442313 - 2	.219855	1 -.785748 - 2	.583184 - 1	-.230264
1.6	.417367	-.410252 - 1	-.585345 - 2	.239889	1 -.971097 - 2	.717410 - 1	-.222483
1.8	.390892	-.523300 - 1	-.750048 - 2	.256712	1 -.117714 - 1	.865474 - 1	-.218000
2.0	.371250	-.650365 - 1	-.936520 - 2	.270943	1 -.140398 - 1	.102720	-.215462
2.2	.356087	-.791290 - 1	-.114485 - 1	.283077	1 -.165169 - 1	.120245	-.214109
2.4	.344000	-.945918 - 1	-.137513 - 1	.293503	1 -.192041 - 1	.139106	-.213499
2.6	.334110	-.111410	-.162746 - 1	.302530	1 -.221024 - 1	.159290	-.213362
2.8	.325840	-.129571	-.190194 - 1	.310401	1 -.252132 - 1	.180786	-.213527
3.0	.318796	-.149059	-.219868 - 1	.317310	1 -.285378 - 1	.203580	-.213886
3.2	.312703	-.169863	-.251780 - 1	.323414	1 -.320775 - 1	.227662	-.214367
3.4	.307362	-.191970	-.285941 - 1	.328838	1 -.358339 - 1	.253021	-.214923
3.6	.302628	-.215369	-.322365 - 1	.333684	1 -.398083 - 1	.279646	-.215522
3.8	.298389	-.240049	-.361065 - 1	.338035	1 -.440022 - 1	.307527	-.216142
4.0	.294561	-.265999	-.402053 - 1	.341961	1 -.484172 - 1	.336654	-.216769
4.2	.291078	-.293208	-.445343 - 1	.345519	1 -.530546 - 1	.367019	-.217393
4.4	.287888	-.321667	-.490950 - 1	.348756	1 -.579161 - 1	.398611	-.218007
4.6	.284948	-.351366	-.538887 - 1	.351712	1 -.630031 - 1	.431423	-.218608
4.8	.282226	-.382296	-.589168 - 1	.354421	1 -.683173 - 1	.465444	-.219191
5.0	.279692	-.414448	-.641808 - 1	.356912	1 -.738601 - 1	.500667	-.219756
5.2	.277325	-.447812	-.696822 - 1	.359209	1 -.796331 - 1	.537084	-.220301
5.4	.275105	-.482380	-.754224 - 1	.361334	1 -.856378 - 1	.574685	-.220827
5.6	.273015	-.518145	-.814028 - 1	.363304	1 -.918759 - 1	.613464	-.221333
5.8	.271042	-.555096	-.876250 - 1	.365136	1 -.983488 - 1	.653412	-.221820
6.0	.269174	-.593227	-.940904 - 1	.366843	1 -.105058	.694522	-.222288
6.2	.267401	-.632528	-.100800	.368438	1 -.112005	.736785	-.222737

Z = 79, A = 197

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.720549	2	-.153196	1	-.387121		-.377115		-.984157		.409711	1	-.145372	1
.6	.501571	2	-.213258	1	-.540185		-.621896 - 1		-.121273	1	.503605	1	-.118187	1
.8	.396368	2	-.277513	1	-.705098		.629762 - 1		-.141304	1	.584906	1	-.122108	1
1.0	.335771	2	-.344199	1	-.877656		.133231		-.159854	1	.659225	1	-.130401	1
1.2	.296762	2	-.411844	1	-.105428	1	.179306		-.177557	1	.729219	1	-.138895	1
1.4	.269605	2	-.479493	1	-.123262	1	.212281		-.194731	1	.796241	1	-.146656	1
1.6	.249560	2	-.546587	1	-.141128	1	.237218		-.211547	1	.861027	1	-.153528	1
1.8	.234083	2	-.612818	1	-.158948	1	.256800		-.228103	1	.924011	1	-.159564	1
2.0	.221703	2	-.678026	1	-.176680	1	.272602		-.244461	1	.985469	1	-.164872	1
2.2	.211516	2	-.742141	1	-.194302	1	.285624		-.260658	1	.104559	2	-.169560	1
2.4	.202942	2	-.805144	1	-.211806	1	.296530		-.276724	1	.110449	2	-.173726	1
2.6	.195590	2	-.867043	1	-.229191	1	.305786		-.292677	1	.116230	2	-.177451	1
2.8	.189189	2	-.927862	1	-.246460	1	.313726		-.308534	1	.121907	2	-.180804	1
3.0	.183544	2	-.987633	1	-.263617	1	.320600		-.324305	1	.127487	2	-.183841	1
3.2	.178512	2	-.104639	2	-.280669	1	.326596		-.340002	1	.132977	2	-.186608	1
3.4	.173984	2	-.110418	2	-.297622	1	.331860		-.355632	1	.138380	2	-.189143	1
3.6	.169879	2	-.116103	2	-.314481	1	.336505		-.371201	1	.143701	2	-.191479	1
3.8	.166130	2	-.121697	2	-.331255	1	.340625		-.386717	1	.148943	2	-.193641	1
4.0	.162688	2	-.127205	2	-.347947	1	.344292		-.402183	1	.154109	2	-.195651	1
4.2	.159509	2	-.132630	2	-.364564	1	.347567		-.417604	1	.159202	2	-.197530	1
4.4	.156560	2	-.137973	2	-.381112	1	.350499		-.432985	1	.164225	2	-.199292	1
4.6	.153813	2	-.143239	2	-.397594	1	.353132		-.448329	1	.169181	2	-.200952	1
4.8	.151245	2	-.148430	2	-.414016	1	.355498		-.463639	1	.174070	2	-.202521	1
5.0	.148836	2	-.153549	2	-.430382	1	.357628		-.478918	1	.178896	2	-.204009	1
5.2	.146570	2	-.158597	2	-.446695	1	.359547		-.494169	1	.183660	2	-.205425	1
5.4	.144431	2	-.163577	2	-.462958	1	.361277		-.509394	1	.188365	2	-.206777	1
5.6	.142409	2	-.168491	2	-.479176	1	.362836		-.524595	1	.193011	2	-.208072	1
5.8	.140491	2	-.173341	2	-.495351	1	.364241		-.539774	1	.197600	2	-.209314	1
6.0	.138669	2	-.178128	2	-.511487	1	.365505		-.554933	1	.202133	2	-.210510	1
6.2	.136935	2	-.182855	2	-.527584	1	.366642		-.570074	1	.206613	2	-.211664	1

Z = 79, A = 197

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.276206	1 -.315987 - 2	-.446832 - 3	.266316	-.174576 - 2	.130228 - 1	-.818765
.6	.126252	1 -.610151 - 2	-.864868 - 3	.864021	-.261282 - 2	.194417 - 1	-.435051
.8	.823141	-.103946 - 1	-.147791 - 2	.129933	1 -.368402 - 2	.273242 - 1	-.320445
1.0	.634635	-.161235 - 1	-.230062 - 2	.165054	1 -.496639 - 2	.366977 - 1	-.270387
1.2	.534985	-.233191 - 1	-.334045 - 2	.193968	1 -.646131 - 2	.475470 - 1	-.244997
1.4	.474906	-.319854 - 1	-.460113 - 2	.217948	1 -.816914 - 2	.598498 - 1	-.231097
1.6	.435250	-.421133 - 1	-.608466 - 2	.237958	1 -.100903 - 1	.735846 - 1	-.223185
1.8	.407280	-.536884 - 1	-.779223 - 2	.254770	1 -.122254 - 1	.887317 - 1	-.218626
2.0	.386529	-.666944 - 1	-.972478 - 2	.269001	1 -.145752 - 1	.105273	-.216043
2.2	.370508	-.811148 - 1	-.118832 - 1	.281139	1 -.171408 - 1	.123193	-.214666
2.4	.357736	-.969334 - 1	-.142682 - 1	.291573	1 -.199231 - 1	.142476	-.214044
2.6	.347283	-.114135	-.168809 - 1	.300610	1 -.229234 - 1	.163109	-.213901
2.8	.338541	-.132704	-.197222 - 1	.308492	1 -.261430 - 1	.185078	-.214066
3.0	.331093	-.152628	-.227932 - 1	.315413	1 -.295831 - 1	.208370	-.214427
3.2	.324650	-.173892	-.260950 - 1	.321529	1 -.332451 - 1	.232974	-.214913
3.4	.319002	-.196485	-.296289 - 1	.326965	1 -.371304 - 1	.258879	-.215475
3.6	.313993	-.220394	-.333959 - 1	.331823	1 -.412405 - 1	.286073	-.216081
3.8	.309508	-.245607	-.373975 - 1	.336185	1 -.455768 - 1	.314547	-.216709
4.0	.305458	-.272114	-.416350 - 1	.340122	1 -.501408 - 1	.344289	-.217343
4.2	.301772	-.299903	-.461097 - 1	.343690	1 -.549340 - 1	.375291	-.217975
4.4	.298395	-.328965	-.508229 - 1	.346937	1 -.599579 - 1	.407542	-.218597
4.6	.295284	-.359289	-.557761 - 1	.349902	1 -.652141 - 1	.441033	-.219205
4.8	.292401	-.390865	-.609708 - 1	.352620	1 -.707041 - 1	.475755	-.219795
5.0	.289719	-.423685	-.664082 - 1	.355119	1 -.764294 - 1	.511699	-.220367
5.2	.287213	-.457738	-.720899 - 1	.357424	1 -.823916 - 1	.548857	-.220920
5.4	.284862	-.493016	-.780173 - 1	.359557	1 -.885922 - 1	.587220	-.221452
5.6	.282649	-.529510	-.841919 - 1	.361534	1 -.950328 - 1	.626780	-.221965
5.8	.280560	-.567211	-.906152 - 1	.363373	1 -.101715	.667528	-.222458
6.0	.278583	-.606111	-.972886 - 1	.365087	1 -.108640	.709457	-.222932
6.2	.276705	-.646201	-.104214	.366688	1 -.115810	.752558	-.223387

Z = 80, A = 198

p	F _o		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.767159	2	-.159204	1	-.407573	-.377603	-.102481	1	.420888	1	-.143714	1
.6	.533639	2	-.220981	1	-.567068	-.568868 - 1	-.126239	1	.517177	1	-.115472	1
.8	.421315	2	-.286895	1	-.738451	.703446 - 1	-.147022	1	.600408	1	-.118866	1
1.0	.356522	2	-.355187	1	-.917469	.141743	-.166233	1	.676354	1	-.126761	1
1.2	.314752	2	-.424370	1	-.110045	1 .188574	-.184537	1	.747770	1	-.134928	1
1.4	.285639	2	-.493482	1	-.128501	1 .222102	-.202272	1	.816067	1	-.142416	1
1.6	.264129	2	-.561961	1	-.146972	1 .247483	-.219619	1	.882018	1	-.149054	1
1.8	.247508	2	-.629499	1	-.165379	1 .267383	-.236683	1	.946079	1	-.154888	1
2.0	.234204	2	-.695943	1	-.183678	1 .283461	-.253528	1	.100854	2	-.160020	1
2.2	.223252	2	-.761225	1	-.201851	1 .296711	-.270197	1	.106960	2	-.164554	1
2.4	.214032	2	-.825331	1	-.219889	1 .307808	-.286719	1	.112939	2	-.168583	1
2.6	.206124	2	-.888273	1	-.237792	1 .317224	-.303117	1	.118803	2	-.172187	1
2.8	.199237	2	-.950079	1	-.255564	1 .325302	-.319406	1	.124559	2	-.175431	1
3.0	.193164	2	-.101079	2	-.273211	1 .332292	-.335599	1	.130215	2	-.178370	1
3.2	.187751	2	-.107043	2	-.290740	1 .338387	-.351707	1	.135775	2	-.181049	1
3.4	.182880	2	-.112906	2	-.308156	1 .343736	-.367739	1	.141246	2	-.183504	1
3.6	.178464	2	-.118671	2	-.325469	1 .348454	-.383702	1	.146631	2	-.185766	1
3.8	.174433	2	-.124342	2	-.342684	1 .352635	-.399602	1	.151933	2	-.187860	1
4.0	.170731	2	-.129922	2	-.359808	1 .356354	-.415446	1	.157158	2	-.189810	1
4.2	.167313	2	-.135415	2	-.376847	1 .359674	-.431237	1	.162306	2	-.191631	1
4.4	.164144	2	-.140825	2	-.393807	1 .362643	-.446981	1	.167381	2	-.193341	1
4.6	.161192	2	-.146153	2	-.410693	1 .365306	-.462680	1	.172387	2	-.194952	1
4.8	.158432	2	-.151403	2	-.427511	1 .367697	-.478339	1	.177324	2	-.196476	1
5.0	.155845	2	-.156578	2	-.444263	1 .369847	-.493961	1	.182195	2	-.197922	1
5.2	.153410	2	-.161680	2	-.460955	1 .371781	-.509549	1	.187002	2	-.199298	1
5.4	.151114	2	-.166711	2	-.477591	1 .373521	-.525105	1	.191747	2	-.200613	1
5.6	.148943	2	-.171674	2	-.494174	1 .375087	-.540631	1	.196432	2	-.201873	1
5.8	.146885	2	-.176570	2	-.510707	1 .376495	-.556130	1	.201057	2	-.203082	1
6.0	.144930	2	-.181401	2	-.527194	1 .377760	-.571603	1	.205626	2	-.204247	1
6.2	.143069	2	-.186170	2	-.543637	1 .378893	-.587054	1	.210139	2	-.205372	1

Z = 80, A = 198

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.292523	1	-.327105	- 2	-.468310	- 3	.249586		-.182176	- 2	.134150	- 1	-.835110
.6	.133096	1	-.628923	- 2	-.902552	- 3	.848451		-.272020	- 2	.199814	- 1	-.439881
.8	.864834		-.106862	- 1	-.153821	- 2	.128281	1	-.382889	- 2	.280354	- 1	-.322833
1.0	.665161		-.165473	- 1	-.239028	- 2	.163311	1	-.515525	- 2	.376072	- 1	-.271837
1.2	.559712		-.239033	- 1	-.346632	- 2	.192162	1	-.670073	- 2	.486818	- 1	-.246001
1.4	.496174		-.327575	- 1	-.477008	- 2	.216105	1	-.846567	- 2	.612362	- 1	-.231865
1.6	.454248		-.431003	- 1	-.630349	- 2	.236096	1	-.104504	- 1	.752481	- 1	-.223820
1.8	.424681		-.549164	- 1	-.806771	- 2	.252902	1	-.126555	- 1	.906972	- 1	-.219186
2.0	.402744		-.681889	- 1	-.100636	- 1	.267135	1	-.150816	- 1	.107565		-.216559
2.2	.385807		-.829006	- 1	-.122919	- 1	.279281	1	-.177297	- 1	.125835		-.215156
2.4	.372302		-.990346	- 1	-.147534	- 1	.289727	1	-.206008	- 1	.145490		-.214521
2.6	.361249		-.116575		-.174491	- 1	.298776	1	-.236961	- 1	.166518		-.214373
2.8	.352001		-.135506		-.203799	- 1	.306672	1	-.270168	- 1	.188903		-.214537
3.0	.344122		-.155814		-.235467	- 1	.313607	1	-.305642	- 1	.212633		-.214901
3.2	.337305		-.177484		-.269508	- 1	.319737	1	-.343395	- 1	.237696		-.215392
3.4	.331328		-.200504		-.305932	- 1	.325187	1	-.383442	- 1	.264080		-.215960
3.6	.326027		-.224861		-.344751	- 1	.330058	1	-.425797	- 1	.291773		-.216573
3.8	.321279		-.250543		-.385978	- 1	.334433	1	-.470474	- 1	.320765		-.217208
4.0	.316990		-.277538		-.429626	- 1	.338382	1	-.517489	- 1	.351045		-.217850
4.2	.313087		-.305836		-.475708	- 1	.341962	1	-.566855	- 1	.382603		-.218489
4.4	.309512		-.335425		-.524238	- 1	.345219	1	-.618588	- 1	.415429		-.219119
4.6	.306216		-.366295		-.575229	- 1	*.348195	1	-.672702	- 1	.449513		-.219734
4.8	.303164		-.398436		-.628696	- 1	.350922	1	-.729214	- 1	.484845		-.220332
5.0	.300323		-.431838		-.684652	- 1	.353431	1	-.788138	- 1	.521418		-.220911
5.2	.297668		-.466492		-.743112	- 1	.355745	1	-.849490	- 1	.559221		-.221471
5.4	.295178		-.502388		-.804090	- 1	.357886	1	-.913285	- 1	.598246		-.222010
5.6	.292834		-.539517		-.867601	- 1	.359871	1	-.979539	- 1	.638484		-.222529
5.8	.290621		-.577871		-.933658	- 1	.361717	1	-.104827		.679927		-.223028
6.0	.288526		-.617439		-.100228		.363438	1	-.111948		.722567		-.223508
6.2	.286537		-.658215		-.107347		.365046	1	-.119320		.766395		-.223969

Z = 81, A = 203

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.815150	2	-.165255	1	-.428701	-.377886	-.106567	1	.431825	1	-.142063	1
.6	.566616	2	-.228722	1	-.594753	-.513509 - 1	-.131228	1	.530439	1	-.112795	1
.8	.446929	2	-.296256	1	-.772699	.779716 - 1	-.152763	1	.615528	1	-.115683	1
1.0	.377790	2	-.366103	1	-.958248	.150533	-.172633	1	.693026	1	-.123196	1
1.2	.333157	2	-.436763	1	-.114765	1 .198136	-.191536	1	.765783	1	-.131052	1
1.4	.302011	2	-.507268	1	-.133847	1 .232226	-.209827	1	.835270	1	-.138278	1
1.6	.278977	2	-.577056	1	-.152925	1 .258020	-.227699	1	.902295	1	-.144093	1
1.8	.261164	2	-.645823	1	-.171919	1 .278284	-.245263	1	.967340	1	-.150336	1
2.0	.246898	2	-.713416	1	-.190788	1 .294642	-.262590	1	.103071	2	-.155301	1
2.2	.235150	2	-.779776	1	-.209512	1 .308121	-.279723	1	.109260	2	-.159689	1
2.4	.225255	2	-.844891	1	-.228083	1 .319410	-.296696	1	.115318	2	-.163590	1
2.6	.216768	2	-.908780	1	-.246504	1 .328988	-.313530	1	.121254	2	-.167080	1
2.8	.209376	2	-.971474	1	-.264779	1 .337201	-.330244	1	.127079	2	-.170223	1
3.0	.202857	2	-.103302	2	-.282913	1 .344305	-.346851	1	.132798	2	-.173071	1
3.2	.197046	2	-.109345	2	-.300916	1 .350497	-.363364	1	.138419	2	-.175667	1
3.4	.191819	2	-.115281	2	-.318795	1 .355927	-.379790	1	.143945	2	-.178048	1
3.6	.187080	2	-.121115	2	-.336558	1 .360714	-.396139	1	.149382	2	-.180243	1
3.8	.182755	2	-.126851	2	-.354213	1 .364953	-.412417	1	.154734	2	-.182277	1
4.0	.178783	2	-.132492	2	-.371766	1 .368720	-.428630	1	.160004	2	-.184170	1
4.2	.175117	2	-.138042	2	-.389224	1 .372078	-.444783	1	.165196	2	-.185941	1
4.4	.171718	2	-.143505	2	-.406593	1 .375078	-.460882	1	.170311	2	-.187604	1
4.6	.168553	2	-.148884	2	-.423879	1 .377765	-.476930	1	.175354	2	-.189172	1
4.8	.165596	2	-.154182	2	-.441088	1 .380174	-.492931	1	.180326	2	-.190656	1
5.0	.162822	2	-.159401	2	-.458225	1 .382337	-.508888	1	.185229	2	-.192065	1
5.2	.160214	2	-.164544	2	-.475293	1 .384279	-.524805	1	.190067	2	-.193407	1
5.4	.157755	2	-.169614	2	-.492297	1 .386022	-.540684	1	.194840	2	-.194691	1
5.6	.155429	2	-.174612	2	-.509241	1 .387587	-.556528	1	.199550	2	-.195921	1
5.8	.153226	2	-.179542	2	-.526128	1 .388991	-.572340	1	.204200	2	-.197103	1
6.0	.151133	2	-.184405	2	-.542962	1 .390247	-.588121	1	.208790	2	-.198242	1
6.2	.149142	2	-.189203	2	-.559746	1 .391369	-.603873	1	.213322	2	-.199343	1

Z = 81, A = 203

p	$\overline{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.309455	1	-.340666	- 2	-.493905	- 3	.233010		-.191228	- 2	.139025	- 1	-.851776
.6	.140163	1	-.652228	- 2	-.947849	- 3	.833207		-.284892	- 2	.206605	- 1	-.444693
.8	.907723		-.110532	- 1	-.161116	- 2	.126671	1	-.400329	- 2	.289400	- 1	-.325171
1.0	.696464		-.170860	- 1	-.249930	- 2	.161617	1	-.538349	- 2	.387738	- 1	-.273227
1.2	.585006		-.246516	- 1	-.362000	- 2	.190412	1	-.699103	- 2	.501468	- 1	-.246941
1.4	.517885		-.337528	- 1	-.497704	- 2	.214323	1	-.882620	- 2	.630355	- 1	-.232568
1.6	.473609		-.443791	- 1	-.657233	- 2	.234301	1	-.108893	- 1	.774165	- 1	-.224390
1.8	.442389		-.565143	- 1	-.840698	- 2	.251106	1	-.131808	- 1	.932686	- 1	-.219678
2.0	.419226		-.701406	- 1	-.104818	- 1	.265345	1	-.157014	- 1	.110572		-.217006
2.2	.401340		-.852398	- 1	-.127975	- 1	.277502	1	-.184520	- 1	.129310		-.215579
2.4	.387078		-.101794		-.153549	- 1	.287962	1	-.214335	- 1	.149465		-.214930
2.6	.375401		-.119787		-.181547	- 1	.297027	1	-.246472	- 1	.171023		-.214776
2.8	.365632		-.139203		-.211980	- 1	.304939	1	-.280941	- 1	.193969		-.214940
3.0	.357306		-.160025		-.244857	- 1	.311890	1	-.317756	- 1	.218289		-.215307
3.2	.350102		-.182241		-.280188	- 1	.318036	1	-.356931	- 1	.243970		-.215803
3.4	.343783		-.205836		-.317985	- 1	.323501	1	-.398477	- 1	.271001		-.216377
3.6	.338179		-.230796		-.358261	- 1	.328387	1	-.442411	- 1	.299369		-.216996
3.8	.333159		-.257110		-.401027	- 1	.332776	1	-.488745	- 1	.329063		-.217639
4.0	.328624		-.284765		-.446296	- 1	.336739	1	-.537495	- 1	.360071		-.218288
4.2	.324497		-.313749		-.494081	- 1	.340331	1	-.588676	- 1	.392384		-.218935
4.4	.320715		-.344052		-.544396	- 1	.343601	1	-.642303	- 1	.425990		-.219572
4.6	.317229		-.375662		-.597255	- 1	.346588	1	-.698390	- 1	.460880		-.220195
4.8	.314000		-.408569		-.652671	- 1	.349326	1	-.756953	- 1	.497043		-.220800
5.0	.310995		-.442763		-.710659	- 1	.351845	1	-.818008	- 1	.534471		-.221387
5.2	.308187		-.478233		-.771232	- 1	.354169	1	-.881569	- 1	.573153		-.221953
5.4	.305552		-.514970		-.834406	- 1	.356318	1	-.947653	- 1	.613081		-.222499
5.6	.303072		-.552964		-.900194	- 1	.358312	1	-.101627		.654245		-.223024
5.8	.300730		-.592206		-.968612	- 1	.360167	1	-.108745		.696637		-.223530
6.0	.298514		-.632687		-.103967		.361895	1	-.116119		.740248		-.224016
6.2	.296409		-.674398		-.111339		.363510	1	-.123752		.785069		-.224483

Z = 82, A = 208

p	F _o		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁			
.4	.866585	2	-.171563	1	-.450932	-.377952	-.110815	1	.443100	1	-.140412	1	
.6	.601932	2	-.236781	1	-.623820	-.455736 - 1	-.136412	1	.544106	1	-.110153	1	
.8	.474335	2	-.305984	1	-.808582	.858687 - 1	-.158724	1	.631103	1	-.112552	1	
1.0	.400523	2	-.377427	1	-.100089	1	.159615	-.179275	1	.710190	1	-.119697	1
1.2	.352808	2	-.449601	1	-.119693	1	.208008	-.198793	1	.784317	1	-.127254	1
1.4	.319473	2	-.521532	1	-.139420	1	.242674	-.217656	1	.855015	1	-.134230	1
1.6	.294796	2	-.592656	1	-.159123	1	.268912	-.236066	1	.923131	1	-.140432	1
1.8	.275698	2	-.662672	1	-.178722	1	.289529	-.254144	1	.989170	1	-.145891	1
2.0	.260395	2	-.731433	1	-.198174	1	.306173	-.271962	1	.105345	2	-.150697	1
2.2	.247787	2	-.798885	1	-.217461	1	.319889	-.289569	1	.111620	2	-.154946	1
2.4	.237166	2	-.865021	1	-.236579	1	.331375	-.307000	1	.117756	2	-.158724	1
2.6	.228053	2	-.929865	1	-.255528	1	.341117	-.324278	1	.123765	2	-.162106	1
2.8	.220117	2	-.993455	1	-.274315	1	.349468	-.341424	1	.129658	2	-.165152	1
3.0	.213118	2	-.105583	2	-.292947	1	.356690	-.358451	1	.135441	2	-.167914	1
3.2	.206879	2	-.111705	2	-.311433	1	.362980	-.375373	1	.141120	2	-.170433	1
3.4	.201268	2	-.117715	2	-.329782	1	.368493	-.392199	1	.146702	2	-.172743	1
3.6	.196181	2	-.123618	2	-.348002	1	.373349	-.408938	1	.152192	2	-.174874	1
3.8	.191539	2	-.129418	2	-.366101	1	.377645	-.425597	1	.157592	2	-.176850	1
4.0	.187277	2	-.135120	2	-.384089	1	.381459	-.442183	1	.162907	2	-.178691	1
4.2	.183345	2	-.140727	2	-.401970	1	.384855	-.458701	1	.168141	2	-.180413	1
4.4	.179699	2	-.146244	2	-.419754	1	.387886	-.475157	1	.173296	2	-.182032	1
4.6	.176305	2	-.151672	2	-.437444	1	.390596	-.491556	1	.178375	2	-.183559	1
4.8	.173134	2	-.157016	2	-.455049	1	.393022	-.507900	1	.183381	2	-.185005	1
5.0	.170162	2	-.162279	2	-.472571	1	.395196	-.524194	1	.188315	2	-.186379	1
5.2	.167367	2	-.167462	2	-.490018	1	.397144	-.540441	1	.193182	2	-.187690	1
5.4	.164732	2	-.172570	2	-.507392	1	.398889	-.556645	1	.197981	2	-.188943	1
5.6	.162242	2	-.177604	2	-.524699	1	.400451	-.572808	1	.202716	2	-.190145	1
5.8	.159882	2	-.182566	2	-.541942	1	.401848	-.588932	1	.207388	2	-.191302	1
6.0	.157642	2	-.187459	2	-.559125	1	.403094	-.605020	1	.211999	2	-.192417	1
6.2	.155512	2	-.192284	2	-.576251	1	.404202	-.621075	1	.216550	2	-.193495	1

Z = 82, A = 208

p	$\bar{F}$		f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.327381	1	-.354730 - 2	-.520734 - 3	.216575	-.200662 - 2	.144048 - 1	-.868775
.6	.147623	1	-.676310 - 2	-.995143 - 3	.818277	-.298279 - 2	.213595 - 1	-.449487
.8	.952884		-.114315 - 1	-.168713 - 2	.125101	1	-.418445 - 2	.298697 - 1
1.0	.729364		-.176403 - 1	-.261262 - 2	.159972	1	-.562030 - 2	.399714 - 1
1.2	.611550		-.254207 - 1	-.377951 - 2	.188717	1	-.729192 - 2	.516496 - 1
1.4	.540643		-.347746 - 1	-.519162 - 2	.212602	1	-.919960 - 2	.648798 - 1
1.6	.493884		-.456907 - 1	-.685084 - 2	.232571	1	-.113436 - 1	.796377 - 1
1.8	.460917		-.581520 - 1	-.875821 - 2	.249378	1	-.137242 - 1	.959011 - 1
2.0	.436459		-.721396 - 1	-.109145 - 1	.263627	1	-.163422 - 1	.113650
2.2	.417571		-.876346 - 1	-.133203 - 1	.275800	1	-.191984 - 1	.132865
2.4	.402507		-.104618	-.159765 - 1	.286276	1	-.222937 - 1	.153530
2.6	.390173		-.123073	-.188837 - 1	.295359	1	-.256293 - 1	.175628
2.8	.379852		-.142982	-.220429 - 1	.303290	1	-.292062 - 1	.199144
3.0	.371055		-.164330	-.254549 - 1	.310260	1	-.330259 - 1	.224065
3.2	.363440		-.187101	-.291210 - 1	.316424	1	-.370895 - 1	.250377
3.4	.356762		-.211281	-.330421 - 1	.321906	1	-.413984 - 1	.278066
3.6	.350837		-.236856	-.372195 - 1	.326808	1	-.459541 - 1	.307120
3.8	.345530		-.263813	-.416543 - 1	.331213	1	-.507579 - 1	.337528
4.0	.340735		-.292140	-.463479 - 1	.335191	1	-.558114 - 1	.369278
4.2	.336370		-.321023	-.513015 - 1	.338797	1	-.611160 - 1	.402358
4.4	.332370		-.352852	-.565165 - 1	.342080	1	-.666732 - 1	.436757
4.6	.328684		-.385215	-.619942 - 1	.345079	1	-.724845 - 1	.472466
4.8	.325268		-.418901	-.677361 - 1	.347829	1	-.785515 - 1	.509474
5.0	.322089		-.453899	-.737435 - 1	.350359	1	-.848757 - 1	.547770
5.2	.319118		-.490199	-.800179 - 1	.352693	1	-.914586 - 1	.587346
5.4	.316331		-.527790	-.865607 - 1	.354853	1	-.983019 - 1	.628190
5.6	.313708		-.566663	-.933734 - 1	.356856	1	-.105407	.670295
5.8	.311231		-.606808	-.100457	.358720	1	-.112775	.713650
6.0	.308885		-.648215	-.107814	.360457	1	-.120409	.758247
6.2	.306659		-.690875	-.115445	.362079	1	-.128309	.804076

Z = 83, A = 214

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.921159	2	-.178080	1	-.474208	-.377797	-.115190	1	.454566	1	-.138762	1
.6	.639368	2	-.245086	1	-.654179	-.395495 - 1	-.141749	1	.557992	1	-.107543	1
.8	.503355	2	-.315986	1	-.845974	.940428 - 1	-.164859	1	.646914	1	-.109472	1
1.0	.424564	2	-.389044	1	-.104524	1 .168998	-.186105	1	.727597	1	-.116264	1
1.2	.373563	2	-.462742	1	-.124808	1 .218199	-.206251	1	.803093	1	-.123534	1
1.4	.337890	2	-.536102	1	-.145196	1 .253456	-.225695	1	.874994	1	-.130270	1
1.6	.311459	2	-.608560	1	-.165537	1 .280140	-.244052	1	.944109	1	-.136268	1
1.8	.290988	2	-.679819	1	-.185751	1 .301127	-.263248	1	.101121	2	-.141552	1
2.0	.274576	2	-.749738	1	-.205798	1 .318066	-.281563	1	.107638	2	-.146207	1
2.2	.261049	2	-.818268	1	-.225659	1 .332023	-.299648	1	.113995	2	-.150323	1
2.4	.249651	2	-.885408	1	-.245330	1 .343709	-.317540	1	.120207	2	-.153985	1
2.6	.239871	2	-.951187	1	-.264815	1 .353619	-.335266	1	.126286	2	-.157264	1
2.8	.231353	2	-.101565	2	-.284120	1 .362111	-.352845	1	.132244	2	-.160218	1
3.0	.223841	2	-.107884	2	-.303255	1 .369451	-.370294	1	.138087	2	-.162898	1
3.2	.217145	2	-.114081	2	-.322229	1 .375840	-.387626	1	.143823	2	-.165344	1
3.4	.211124	2	-.120162	2	-.341051	1 .381435	-.404852	1	.149457	2	-.167588	1
3.6	.205666	2	-.126131	2	-.359731	1 .386359	-.421981	1	.154995	2	-.169660	1
3.8	.200686	2	-.131993	2	-.378279	1 .390711	-.439021	1	.160440	2	-.171581	1
4.0	.196115	2	-.137752	2	-.396703	1 .394571	-.455980	1	.165796	2	-.173372	1
4.2	.191899	2	-.143412	2	-.415010	1 .398003	-.472862	1	.171068	2	-.175050	1
4.4	.187990	2	-.148978	2	-.433208	1 .401062	-.489675	1	.176258	2	-.176627	1
4.6	.184353	2	-.154453	2	-.451304	1 .403793	-.506422	1	.181370	2	-.178116	1
4.8	.180955	2	-.159839	2	-.469304	1 .406232	-.523108	1	.186405	2	-.179528	1
5.0	.177771	2	-.165141	2	-.487214	1 .408414	-.539737	1	.191367	2	-.180870	1
5.2	.174778	2	-.170362	2	-.505038	1 .410364	-.556312	1	.196258	2	-.182151	1
5.4	.171957	2	-.175503	2	-.522783	1 .412107	-.572838	1	.201080	2	-.183377	1
5.6	.169291	2	-.180567	2	-.540452	1 .413662	-.589316	1	.205835	2	-.184554	1
5.8	.166766	2	-.185558	2	-.558049	1 .415048	-.605750	1	.210525	2	-.185687	1
6.0	.164370	2	-.190477	2	-.575579	1 .416279	-.622143	1	.215152	2	-.186780	1
6.2	.162091	2	-.195325	2	-.593045	1 .417370	-.638496	1	.219717	2	-.187838	1

Z = 83, A = 214

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.346258	1 -.369835 - 2	-.549672 - 3	.200272	-.210790 - 2	.149436 - 1	-.886119
.6	.155453	1 -.702184 - 2	-.104608 - 2	.803650	-.312647 - 2	.221099 - 1	-.454262
.8	.100015	1 -.118380 - 1	-.176889 - 2	.123570	1 -.437883 - 2	.308686 - 1	-.329691
1.0	.763724	-.182364 - 1	-.273450 - 2	.158373	1 -.587432 - 2	.412590 - 1	-.275825
1.2	.639224	-.262478 - 1	-.395102 - 2	.187075	1 -.761465 - 2	.532659 - 1	-.248629
1.4	.564337	-.358739 - 1	-.542231 - 2	.210939	1 -.960006 - 2	.668639 - 1	-.233776
1.6	.514968	-.471022 - 1	-.715020 - 2	.230904	1 -.118307 - 1	.820278 - 1	-.225328
1.8	.480165	-.599146 - 1	-.913570 - 2	.247718	1 -.143070 - 1	.987343 - 1	-.220461
2.0	.454345	-.742914 - 1	-.113795 - 1	.261981	1 -.170294 - 1	.116962	-.217698
2.2	.434404	-.902125 - 1	-.138822 - 1	.274172	1 -.199988 - 1	.136692	-.216220
2.4	.418499	-.107659	-.166445 - 1	.284668	1 -.232162 - 1	.157905	-.215544
2.6	.405474	-.126611	-.196671 - 1	.293772	1 -.266825 - 1	.180586	-.215379
2.8	.394573	-.147052	-.229508 - 1	.301724	1 -.303990 - 1	.204717	-.215541
3.0	.385280	-.168965	-.264967 - 1	.308715	1 -.343668 - 1	.230285	-.215913
3.2	.377235	-.192335	-.303056 - 1	.314898	1 -.385873 - 1	.257275	-.216418
3.4	.370178	-.217145	-.343787 - 1	.320400	1 -.430618 - 1	.285674	-.217004
3.6	.363917	-.243382	-.387172 - 1	.325320	1 -.477917 - 1	.315468	-.217637
3.8	.358308	-.271032	-.433222 - 1	.329742	1 -.527785 - 1	.346644	-.218294
4.0	.353239	-.300082	-.481951 - 1	.333736	1 -.580235 - 1	.379192	-.218959
4.2	.348625	-.330518	-.533370 - 1	.337357	1 -.635284 - 1	.413099	-.219621
4.4	.344396	-.362329	-.587494 - 1	.340654	1 -.692946 - 1	.448353	-.220273
4.6	.340498	-.395503	-.644336 - 1	.343667	1 -.753235 - 1	.484944	-.220910
4.8	.336887	-.430027	-.703909 - 1	.346430	1 -.816169 - 1	.522860	-.221530
5.0	.333526	-.465891	-.766229 - 1	.348972	1 -.881761 - 1	.562092	-.222131
5.2	.330384	-.503084	-.831309 - 1	.351318	1 -.950028 - 1	.602629	-.222711
5.4	.327437	-.541596	-.899163 - 1	.353488	1 -.102099	.644461	-.223270
5.6	.324662	-.581415	-.969807 - 1	.355502	1 -.109465	.687578	-.223808
5.8	.322043	-.622531	-.104325	.357375	1 -.117103	.731970	-.224326
6.0	.319563	-.664935	-.111952	.359120	1 -.125015	.777628	-.224824
6.2	.317209	-.708617	-.119862	.360752	1 -.133203	.824543	-.225302

Z = 84, A = 210

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.986090	2	-.185512	1	-.500009		-.377404		-.120162	1	.468069	1	-.137096	1
.6	.683926	2	-.254611	1	-.687849		-.332617	-1	-.147812	1	.574379	1	-.104954	1
.8	.537915	2	-.327519	1	-.887451		.102517		-.171828	1	.665624	1	-.106427	1
1.0	.453217	2	-.402510	1	-.109443	1	.178713		-.193863	1	.748266	1	-.112878	1
1.2	.398320	2	-.478053	1	-.130482	1	.228748		-.214723	1	.825471	1	-.119870	1
1.4	.359879	2	-.553160	1	-.151600	1	.264618		-.234825	1	.898904	1	-.126372	1
1.6	.331370	2	-.627270	1	-.172648	1	.291787		-.254400	1	.969494	1	-.132171	1
1.8	.309275	2	-.700087	1	-.193542	1	.313147		-.273584	1	.103780	2	-.137284	1
2.0	.291551	2	-.771475	1	-.214244	1	.330397		-.292460	1	.110418	2	-.141789	1
2.2	.276939	2	-.841392	1	-.234737	1	.344613		-.311085	1	.116887	2	-.145775	1
2.4	.264623	2	-.909843	1	-.255018	1	.356516		-.329497	1	.123205	2	-.149321	1
2.6	.254054	2	-.976864	1	-.275091	1	.366610		-.347725	1	.129385	2	-.152496	1
2.8	.244849	2	-.104250	2	-.294966	1	.375258		-.365792	1	.135438	2	-.155358	1
3.0	.236731	2	-.110681	2	-.314651	1	.382730		-.383714	1	.141371	2	-.157955	1
3.2	.229496	2	-.116984	2	-.334159	1	.389233		-.401506	1	.147193	2	-.160325	1
3.4	.222991	2	-.123166	2	-.353499	1	.394926		-.419179	1	.152909	2	-.162500	1
3.6	.217095	2	-.129231	2	-.372682	1	.399934		-.436744	1	.158525	2	-.164509	1
3.8	.211717	2	-.135184	2	-.391719	1	.404357		-.454209	1	.164044	2	-.166372	1
4.0	.206782	2	-.141031	2	-.410618	1	.408277		-.471583	1	.169472	2	-.168110	1
4.2	.202230	2	-.146774	2	-.429388	1	.411761		-.488870	1	.174812	2	-.169738	1
4.4	.198012	2	-.152420	2	-.448037	1	.414863		-.506079	1	.180067	2	-.171269	1
4.6	.194088	2	-.157971	2	-.466573	1	.417629		-.523213	1	.185241	2	-.172715	1
4.8	.190423	2	-.163430	2	-.485002	1	.420098		-.540277	1	.190337	2	-.174086	1
5.0	.186989	2	-.168802	2	-.503330	1	.422302		-.557277	1	.195356	2	-.175391	1
5.2	.183762	2	-.174089	2	-.521564	1	.424271		-.574215	1	.200302	2	-.176636	1
5.4	.180722	2	-.179294	2	-.539708	1	.426026		-.591096	1	.205177	2	-.177828	1
5.6	.177849	2	-.184420	2	-.557767	1	.427591		-.607922	1	.209982	2	-.178973	1
5.8	.175129	2	-.189470	2	-.575747	1	.428982		-.624698	1	.214721	2	-.180075	1
6.0	.172548	2	-.194445	2	-.593651	1	.430215		-.641425	1	.219394	2	-.181140	1
6.2	.170095	2	-.199348	2	-.611482	1	.431304		-.658106	1	.224004	2	-.182170	1

Z = 84, A = 210

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.367334	1	-.380163	- 2	-.571504	- 3	.184093		-.218274	- 2	.152845	- 1	-.903821
.6	.164207	1	-.718831	- 2	-.108313	- 2	.789316		-.323041	- 2	.225659	- 1	-.459018
.8	.105306	1	-.120876	- 1	-.182674	- 2	.122078	1	-.451689	- 2	.314547	- 1	-.331872
1.0	.802229		-.185891	- 1	-.281897	- 2	.156820	1	-.605206	- 2	.419932	- 1	-.277031
1.2	.670267		-.267236	- 1	-.406794	- 2	.185484	1	-.783764	- 2	.541662	- 1	-.249375
1.4	.590936		-.364918	- 1	-.557745	- 2	.209332	1	-.987379	- 2	.679483	- 1	-.234279
1.6	.538653		-.478806	- 1	-.734923	- 2	.229298	1	-.121606	- 1	.833133	- 1	-.225696
1.8	.501802		-.608713	- 1	-.938417	- 2	.246124	1	-.146982	- 1	.100237		-.220750
2.0	.474462		-.754434	- 1	-.116828	- 1	.260405	1	-.174872	- 1	.118699		-.217942
2.2	.453346		-.915761	- 1	-.142457	- 1	.272617	1	-.205283	- 1	.138677		-.216437
2.4	.436501		-.109249		-.170734	- 1	.283136	1	-.238222	- 1	.160154		-.215748
2.6	.422705		-.128444		-.201665	- 1	.292264	1	-.273700	- 1	.183112		-.215577
2.8	.411157		-.149143		-.235258	- 1	.300240	1	-.311727	- 1	.207535		-.215738
3.0	.401311		-.171328		-.271521	- 1	.307253	1	-.352315	- 1	.233408		-.216112
3.2	.392786		-.194982		-.310463	- 1	.313459	1	-.395476	- 1	.260715		-.216621
3.4	.385307		-.220091		-.352096	- 1	.318981	1	-.441223	- 1	.289444		-.217213
3.6	.378671		-.246640		-.396429	- 1	.323921	1	-.489569	- 1	.319580		-.217853
3.8	.372724		-.274614		-.443473	- 1	.328362	1	-.540529	- 1	.351111		-.218517
4.0	.367351		-.304000		-.493242	- 1	.332373	1	-.594116	- 1	.384024		-.219189
4.2	.362458		-.334785		-.545746	- 1	.336011	1	-.650344	- 1	.418308		-.219859
4.4	.357974		-.366956		-.601000	- 1	.339324	1	-.709228	- 1	.453950		-.220518
4.6	.353841		-.400501		-.659015	- 1	.342351	1	-.770783	- 1	.490940		-.221163
4.8	.350011		-.435407		-.719806	- 1	.345128	1	-.835023	- 1	.529265		-.221791
5.0	.346447		-.471665		-.783385	- 1	.347683	1	-.901963	- 1	.568916		-.222398
5.2	.343115		-.509261		-.849767	- 1	.350041	1	-.971620	- 1	.609882		-.222985
5.4	.339989		-.548186		-.918966	- 1	.352222	1	-.104401		.652153		-.223551
5.6	.337047		-.588429		-.990995	- 1	.354247	1	-.111914		.695718		-.224095
5.8	.334269		-.629979		-.106587		.356130	1	-.119703		.740568		-.224619
6.0	.331639		-.672826		-.114360		.357886	1	-.127770		.786693		-.225123
6.2	.329142		-.716960		-.122421		.359526	1	-.136116		.834083		-.225607

Z = 85, A = 217.

p	F _o		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.104862	3	-.192554	1	-.525717	-.376781	-.124860	1	.480122	1	-.135439	1
.6	.726742	2	-.263551	1	-.721230	-.267231 - 1	-.153537	1	.588959	1	-.102403	1
.8	.571035	2	-.338240	1	-.928385	.111274	-.178400	1	.682201	1	-.103439	1
1.0	.480590	2	-.414912	1	-.114279	1 .188734	-.201170	1	.766488	1	-.109564	1
1.2	.421893	2	-.492030	1	-.136039	1 .239618	-.222690	1	.845090	1	-.116292	1
1.4	.380744	2	-.568604	1	-.157856	1 .276113	-.243400	1	.919740	1	-.122574	1
1.6	.350200	2	-.644074	1	-.179575	1 .303763	-.263544	1	.991411	1	-.128186	1
1.8	.326512	2	-.718149	1	-.201116	1 .325506	-.283266	1	.106069	2	-.133140	1
2.0	.307501	2	-.790702	1	-.222439	1 .343066	-.302655	1	.112794	2	-.137507	1
2.2	.291823	2	-.861695	1	-.243529	1 .357538	-.321771	1	.119344	2	-.141372	1
2.4	.278606	2	-.931142	1	-.264384	1 .369652	-.340657	1	.125735	2	-.144813	1
2.6	.267263	2	-.999084	1	-.285012	1 .379921	-.359342	1	.131982	2	-.147896	1
2.8	.257383	2	-.106557	2	-.305422	1 .388715	-.377851	1	.138097	2	-.150675	1
3.0	.248670	2	-.113067	2	-.325625	1 .396310	-.396202	1	.144087	2	-.153199	1
3.2	.240907	2	-.119443	2	-.345633	1 .402914	-.414410	1	.149961	2	-.155503	1
3.4	.233927	2	-.125692	2	-.365458	1 .408690	-.432489	1	.155724	2	-.157620	1
3.6	.227603	2	-.131820	2	-.385112	1 .413766	-.450448	1	.161383	2	-.159575	1
3.8	.221835	2	-.137831	2	-.404606	1 .418245	-.468297	1	.166943	2	-.161391	1
4.0	.216543	2	-.143730	2	-.423949	1 .422208	-.486045	1	.172407	2	-.163085	1
4.2	.211663	2	-.149523	2	-.443151	1 .425725	-.503699	1	.177780	2	-.164673	1
4.4	.207143	2	-.155213	2	-.462221	1 .428851	-.521264	1	.183065	2	-.166169	1
4.6	.202938	2	-.160805	2	-.481166	1 .431634	-.538747	1	.188266	2	-.167582	1
4.8	.199013	2	-.166302	2	-.499994	1 .434112	-.556152	1	.193386	2	-.168923	1
5.0	.195336	2	-.171708	2	-.518712	1 .436319	-.573485	1	.198427	2	-.170200	1
5.2	.191882	2	-.177027	2	-.537325	1 .438284	-.590750	1	.203391	2	-.171420	1
5.4	.188628	2	-.182260	2	-.555840	1 .440031	-.607951	1	.208283	2	-.172589	1
5.6	.185554	2	-.187411	2	-.574262	1 .441582	-.625090	1	.213102	2	-.173712	1
5.8	.182645	2	-.192483	2	-.592596	1 .442955	-.642172	1	.217853	2	-.174795	1
6.0	.179885	2	-.197478	2	-.610845	1 .444167	-.659200	1	.222535	2	-.175842	1
6.2	.177262	2	-.202398	2	-.629016	1 .445231	-.676176	1	.227153	2	-.176855	1

Z = 85, A = 217

p	$\overline{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.388429	1	-.396889	- 2	-.603972	- 3	.168029		-.229528	- 2	.158769	- 1	-.921896
.6	.172903	1	-.747403	- 2	-.114000	- 2	.775267		-.338979	- 2	.233910	- 1	-.463755
.8	.110530	1	-.125358	- 1	-.191772	- 2	.120622	1	-.473217	- 2	.325528	- 1	-.334000
1.0	.840045		-.192454	- 1	-.295431	- 2	.155310	1	-.633303	- 2	.434079	- 1	-.278176
1.2	.700627		-.276337	- 1	-.425810	- 2	.183943	1	-.819425	- 2	.559415	- 1	-.250056
1.4	.616861		-.377005	- 1	-.583291	- 2	.207781	1	-.103159	- 1	.701270	- 1	-.234716
1.6	.561673		-.494317	- 1	-.768043	- 2	.227753	1	-.126981	- 1	.859371	- 1	-.225995
1.8	.522779		-.628075	- 1	-.980150	- 2	.244594	1	-.153408	- 1	.103347		-.220970
2.0	.493923		-.778062	- 1	-.121966	- 1	.258897	1	-.182447	- 1	.122333		-.218116
2.2	.471636		-.944059	- 1	-.148662	- 1	.271133	1	-.214102	- 1	.142874		-.216585
2.4	.453855		-.112586		-.178107	- 1	.281679	1	-.248381	- 1	.164952		-.215882
2.6	.439290		-.132325		-.210308	- 1	.290833	1	-.285296	- 1	.188547		-.215704
2.8	.427096		-.153606		-.245272	- 1	.298835	1	-.324855	- 1	.213643		-.215865
3.0	.416699		-.176410		-.283006	- 1	.305873	1	-.367070	- 1	.240224		-.216242
3.2	.407695		-.200719		-.323521	- 1	.312103	1	-.411953	- 1	.268273		-.216755
3.4	.399795		-.226518		-.366825	- 1	.317648	1	-.459518	- 1	.297778		-.217353
3.6	.392784		-.253790		-.412929	- 1	.322609	1	-.509777	- 1	.328722		-.217999
3.8	.386501		-.282522		-.461844	- 1	.327070	1	-.562745	- 1	.361093		-.218670
4.0	.380823		-.312699		-.513583	- 1	.331100	1	-.618434	- 1	.394879		-.219350
4.2	.375653		-.344306		-.568158	- 1	.334756	1	-.676860	- 1	.430065		-.220027
4.4	.370914		-.377332		-.625580	- 1	.338086	1	-.738036	- 1	.466641		-.220694
4.6	.366546		-.411762		-.685864	- 1	.341129	1	-.801979	- 1	.504593		-.221346
4.8	.362499		-.447584		-.749022	- 1	.343921	1	-.868702	- 1	.543911		-.221981
5.0	.358731		-.484788		-.815068	- 1	.346489	1	-.938220	- 1	.584583		-.222595
5.2	.355209		-.523359		-.884016	- 1	.348860	1	-.101055		.626598		-.223189
5.4	.351906		-.563288		-.955880	- 1	.351054	1	-.108571		.669946		-.223761
5.6	.348796		-.604563		-.103067		.353090	1	-.116370		.714615		-.224312
5.8	.345859		-.647173		-.110841		.354985	1	-.124456		.760596		-.224843
6.0	.343079		-.691108		-.118910		.356751	1	-.132828		.807878		-.225352
6.2	.340441		-.736356		-.127277		.358401	1	-.141489		.856451		-.225842

Z = 86, A = 219'

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.111947	3	-.200250	1	-.553526	-.375907	-.129978	1	.493458	1	-.133770	1
.6	.775245	2	-.273342	1	-.757313	-.199108 - 1	-.159771	1	.605104	1	-.998734	
.8	.608547	2	-.350006	1	-.972593	.120344	-.185555	1	.700582	1	-.100488	1
1.0	.511591	2	-.428552	1	-.119497	1 .199102	-.209123	1	.786724	1	-.106297	1
1.2	.448586	2	-.507434	1	-.142032	1 .250863	-.231359	1	.866917	1	-.112770	1
1.4	.404370	2	-.585659	1	-.164595	1 .288005	-.252726	1	.942967	1	-.118840	1
1.6	.371521	2	-.662669	1	-.187033	1 .316156	-.273484	1	.101589	2	-.124272	1
1.8	.346029	2	-.738179	1	-.209263	1 .338299	-.293787	1	.108631	2	-.129071	1
2.0	.325560	2	-.812068	1	-.231248	1 .356185	-.313729	1	.115461	2	-.133304	1
2.2	.308674	2	-.884306	1	-.252974	1 .370925	-.333374	1	.122106	2	-.137052	1
2.4	.294437	2	-.954914	1	-.274441	1 .383262	-.352769	1	.128586	2	-.140390	1
2.6	.282217	2	-.102394	2	-.295658	1 .393718	-.371945	1	.134916	2	-.143382	1
2.8	.271574	2	-.109144	2	-.316635	1 .402669	-.390928	1	.141108	2	-.146081	1
3.0	.262190	2	-.115748	2	-.337386	1 .410395	-.409738	1	.147170	2	-.148531	1
3.2	.253829	2	-.122214	2	-.357924	1 .417110	-.428392	1	.153111	2	-.150771	1
3.4	.246312	2	-.128546	2	-.378262	1 .422978	-.446903	1	.158937	2	-.152829	1
3.6	.239504	2	-.134751	2	-.398413	1 .428131	-.465283	1	.164655	2	-.154731	1
3.8	.233296	2	-.140834	2	-.418389	1 .432673	-.483541	1	.170269	2	-.156498	1
4.0	.227602	2	-.146802	2	-.438200	1 .436688	-.501688	1	.175785	2	-.158140	1
4.2	.222352	2	-.152659	2	-.457856	1 .440246	-.519730	1	.181205	2	-.159695	1
4.4	.217491	2	-.158409	2	-.477368	1 .443404	-.537675	1	.186535	2	-.161153	1
4.6	.212970	2	-.164057	2	-.496743	1 .446210	-.555528	1	.191778	2	-.162532	1
4.8	.208751	2	-.169607	2	-.515990	1 .448704	-.573295	1	.196936	2	-.163841	1
5.0	.204800	2	-.175063	2	-.535116	1 .450921	-.590981	1	.202014	2	-.165088	1
5.2	.201089	2	-.180427	2	-.554127	1 .452889	-.608592	1	.207012	2	-.166281	1
5.4	.197594	2	-.185703	2	-.573030	1 .454635	-.626130	1	.211934	2	-.167424	1
5.6	.194294	2	-.190895	2	-.591831	1 .456180	-.643600	1	.216783	2	-.168524	1
5.8	.191172	2	-.196004	2	-.610534	1 .457542	-.661006	1	.221560	2	-.169584	1
6.0	.188211	2	-.201034	2	-.629146	1 .458739	-.678350	1	.226268	2	-.170610	1
6.2	.185397	2	-.205987	2	-.647669	1 .459784	-.695636	1	.230907	2	-.171604	1

Z = 86, A = 219

p	$\overline{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.411382	1	-.411447	- 2	-.633468	- 3	.152070		-.239631	- 2	.163766	- 1	-.940356
.6	.182360	1	-.771697	- 2	-.119084	- 2	.761491		-.353158	- 2	.240771	- 1	-.468471
.8	.116207	1	-.129103	- 1	-.199809	- 2	.119202	1	-.492223	- 2	.334547	- 1	-.336075
1.0	.881135		-.197867	- 1	-.307282	- 2	.153843	1	-.657955	- 2	.445588	- 1	-.279257
1.2	.733610		-.283767	- 1	-.442347	- 2	.182450	1	-.850551	- 2	.573745	- 1	-.250671
1.4	.645023		-.386795	- 1	-.605383	- 2	.206284	1	-.107001	- 1	.718743	- 1	-.235084
1.6	.586675		-.506801	- 1	-.796553	- 2	.226266	1	-.131634	- 1	.880302	- 1	-.226226
1.8	.545560		-.643574	- 1	-.101593	- 1	.243127	1	-.158952	- 1	.105816		-.221121
2.0	.515058		-.796888	- 1	-.126355	- 1	.257455	1	-.188961	- 1	.125208		-.218220
2.2	.491497		-.966517	- 1	-.153945	- 1	.269720	1	-.221664	- 1	.146184		-.216663
2.4	.472698		-.115224		-.184367	- 1	.280295	1	-.257071	- 1	.168723		-.215945
2.6	.457290		-.135385		-.217626	- 1	.289478	1	-.295189	- 1	.192808		-.215762
2.8	.444403		-.157114		-.253728	- 1	.297508	1	-.336028	- 1	.218419		-.215922
3.0	.433406		-.180394		-.292681	- 1	.304574	1	-.379599	- 1	.245541		-.216300
3.2	.423882		-.205206		-.334494	- 1	.310829	1	-.425915	- 1	.274157		-.216818
3.4	.415524		-.231533		-.379175	- 1	.316399	1	-.474986	- 1	.304252		-.217422
3.6	.408106		-.259359		-.426735	- 1	.321383	1	-.526827	- 1	.335811		-.218075
3.8	.401458		-.288668		-.477184	- 1	.325867	1	-.581451	- 1	.368820		-.218753
4.0	.395449		-.319447		-.530534	- 1	.329917	1	-.638871	- 1	.403267		-.219440
4.2	.389978		-.351680		-.586796	- 1	.333592	1	-.699101	- 1	.439136		-.220124
4.4	.384962		-.385354		-.645984	- 1	.336939	1	-.762156	- 1	.476417		-.220799
4.6	.380339		-.420455		-.708109	- 1	.340000	1	-.828050	- 1	.515096		-.221458
4.8	.376055		-.456971		-.773185	- 1	.342807	1	-.896798	- 1	.555162		-.222100
5.0	.372067		-.494888		-.841225	- 1	.345391	1	-.968414	- 1	.596603		-.222721
5.2	.368339		-.534196		-.912242	- 1	.347776	1	-.104291		.639407		-.223322
5.4	.364842		-.574882		-.986250	- 1	.349983	1	-.112031		.683563		-.223901
5.6	.361550		-.616933		-.106326		.352032	1	-.120062		.729061		-.224458
5.8	.358442		-.660340		-.114329		.353937	1	-.128387		.775889		-.224995
6.0	.355500		-.705091		-.122636		.355715	1	-.137005		.824036		-.225510
6.2	.352707		-.751175		-.131247		.357375	1	-.145919		.873494		-.226006

Z = 87, A = 221

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.119585	3	-.208294	1	-.582853		-.374779		-.135309	1	.507240	1	-.132094	1
.6	.827487	2	-.283560	1	-.795289		-.128219	- 1	-.166263	1	.621781	1	-.973682	
.8	.648910	2	-.362265	1	-.101903	1	.129732		-.193001	1	.719558	1	-.975761	
1.0	.544909	2	-.442739	1	-.124967	1	.209821		-.217394	1	.807603	1	-.103083	1
1.2	.477241	2	-.523432	1	-.148303	1	.262487		-.240367	1	.889424	1	-.109311	1
1.4	.429703	2	-.603347	1	-.171639	1	.300295		-.262411	1	.966900	1	-.115176	1
1.6	.394355	2	-.681929	1	-.194816	1	.328964		-.283800	1	.104110	2	-.120436	1
1.8	.366906	2	-.758900	1	-.217756	1	.351521		-.304697	1	.111267	2	-.125086	1
2.0	.344857	2	-.834147	1	-.240420	1	.369743		-.325204	1	.118202	2	-.129192	1
2.2	.326663	2	-.907647	1	-.262797	1	.384760		-.345390	1	.124944	2	-.132829	1
2.4	.311320	2	-.979430	1	-.281890	1	.397329		-.365302	1	.131514	2	-.136068	1
2.6	.298151	2	-.104955	2	-.306709	1	.407977		-.384977	1	.137927	2	-.138973	1
2.8	.286682	2	-.111807	2	-.328265	1	.417089		-.404442	1	.144195	2	-.141595	1
3.0	.276570	2	-.118507	2	-.349575	1	.424951		-.423718	1	.150329	2	-.143977	1
3.2	.267561	2	-.125061	2	-.370652	1	.431778		-.442823	1	.156337	2	-.146154	1
3.4	.259465	2	-.131476	2	-.391512	1	.437741		-.461772	1	.162225	2	-.148156	1
3.6	.252133	2	-.137758	2	-.412167	1	.442972		-.480577	1	.168001	2	-.150008	1
3.8	.245449	2	-.143915	2	-.432631	1	.447577		-.499250	1	.173669	2	-.151729	1
4.0	.239320	2	-.149950	2	-.452916	1	.451643		-.517799	1	.179235	2	-.153337	1
4.2	.233672	2	-.155871	2	-.473033	1	.455242		-.536233	1	.184703	2	-.154846	1
4.4	.228442	2	-.161680	2	-.492991	1	.458430		-.554559	1	.190076	2	-.156268	1
4.6	.223580	2	-.167384	2	-.512801	1	.461250		-.572784	1	.195360	2	-.157615	1
4.8	.219044	2	-.172986	2	-.532470	1	.463767		-.590915	1	.200556	2	-.158894	1
5.0	.214798	2	-.178409	2	-.552007	1	.465992		-.608956	1	.205668	2	-.160113	1
5.2	.210811	2	-.183899	2	-.571419	1	.467962		-.626913	1	.210699	2	-.161280	1
5.4	.207057	2	-.189217	2	-.590713	1	.469704		-.644790	1	.215651	2	-.162399	1
5.6	.203513	2	-.194448	2	-.609894	1	.471240		-.662591	1	.220527	2	-.163476	1
5.8	.200161	2	-.199593	2	-.628969	1	.472588		-.680321	1	.225330	2	-.164516	1
6.0	.196983	2	-.204657	2	-.647942	1	.473767		-.697982	1	.230060	2	-.165521	1
6.2	.193964	2	-.209641	2	-.666819	1	.474791		-.715577	1	.234722	2	-.166497	1

Z = 87, A = 221

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.435722	1 -.426547 - 2	-.664336 - 3	.136209	-.250146 - 2	.168919 - 1	-.959218
.6	.192360	1 -.796825 - 2	-.124386 - 2	.747982	-.367895 - 2	.247840 - 1	-.473166
.8	.122197	1 -.132969 - 1	-.208173 - 2	.117817	1 -.511952 - 2	.343834 - 1	-.338095
1.0	.924408	-.203447 - 1	-.319594 - 2	.152417	1 -.683517 - 2	.457428 - 1	-.280276
1.2	.768294	-.291419 - 1	-.459505 - 2	.181005	1 -.882798 - 2	.588476 - 1	-.251218
1.4	.674601	-.396869 - 1	-.628283 - 2	.204840	1 -.110979 - 1	.736696 - 1	-.235384
1.6	.612910	-.519636 - 1	-.826081 - 2	.224836	1 -.136448 - 1	.901798 - 1	-.226387
1.8	.569444	-.659500 - 1	-.105296 - 1	.241722	1 -.164685 - 1	.108351	-.221202
2.0	.537199	-.816224 - 1	-.130895 - 1	.256079	1 -.195694 - 1	.128158	-.218254
2.2	.512290	-.989571 - 1	-.159407 - 1	.268375	1 -.229479 - 1	.149578	-.216670
2.4	.492415	-.117931	-.190836 - 1	.278982	1 -.266046 - 1	.172590	-.215939
2.6	.476130	-.138523	-.225185 - 1	.288198	1 -.305403 - 1	.197175	-.215749
2.8	.462493	-.160712	-.262461 - 1	.296259	1 -.347561 - 1	.223313	-.215907
3.0	.450861	-.184478	-.302670 - 1	.303354	1 -.392528 - 1	.250988	-.216288
3.2	.440787	-.209804	-.345819 - 1	.309638	1 -.440317 - 1	.280183	-.216810
3.4	.431944	-.236671	-.391917 - 1	.315234	1 -.490940 - 1	.310881	-.217419
3.6	.424096	-.265062	-.440975 - 1	.320243	1 -.544408 - 1	.343068	-.218079
3.8	.417062	-.294963	-.493002 - 1	.324749	1 -.600735 - 1	.376729	-.218764
4.0	.410703	-.326356	-.548009 - 1	.328822	1 -.659934 - 1	.411850	-.219458
4.2	.404912	-.359228	-.606008 - 1	.332517	1 -.722020 - 1	.448417	-.220150
4.4	.399605	-.393564	-.667010 - 1	.335884	1 -.787005 - 1	.486418	-.220832
4.6	.394711	-.429350	-.731028 - 1	.338962	1 -.854904 - 1	.525839	-.221499
4.8	.390177	-.466573	-.798075 - 1	.341787	1 -.925731 - 1	.566667	-.222148
5.0	.385956	-.505220	-.868163 - 1	.344386	1 -.999502 - 1	.608892	-.222776
5.2	.382010	-.545278	-.941306 - 1	.346786	1 -.107623	.652500	-.223383
5.4	.378309	-.586735	-.101752	.349007	1 -.115593	.697481	-.223969
5.6	.374825	-.629579	-.109681	.351069	1 -.123862	.743822	-.224533
5.8	.371535	-.673798	-.117920	.352988	1 -.132431	.791514	-.225075
6.0	.368420	-.719381	-.126469	.354777	1 -.141302	.840544	-.225597
6.2	.365464	-.766317	-.135331	.356448	1 -.150476	.890902	-.226098

Z = 88, A = 222

p	F ₀		f ₁		g ₁	tanΔ ₁		f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.127914	3	-.216784	1	-.613969	-.373387		-.140918	1	.521689	1	-.130406	1
.6	.884416	2	-.294335	1	-.835510	-.544679	- 2	-.173089	1	.639260	1	-.948844	
.8	.692855	2	-.375180	1	-.106812	1	.139452	-.200826	1	.739442	1	-.947002	
1.0	.581149	2	-.457671	1	-.130741	1	.220910	-.226081	1	.829476	1	-.999150	
1.2	.508379	2	-.540255	1	-.154913	1	.274508	-.249824	1	.912996	1	-.105908	1
1.4	.457202	2	-.621935	1	-.179051	1	.313007	-.272571	1	.991962	1	-.111578	1
1.6	.419118	2	-.702156	1	-.202998	1	.342213	-.294614	1	.106749	2	-.116672	1
1.8	.389527	2	-.780649	1	-.226673	1	.365199	-.316127	1	.114026	2	-.121180	1
2.0	.365747	2	-.857308	1	-.250040	1	.383771	-.337218	1	.121071	2	-.125163	1
2.2	.346120	2	-.932122	1	-.273092	1	.399076	-.357961	1	.127914	2	-.128693	1
2.4	.329566	2	-.100513	2	-.295831	1	.411884	-.378408	1	.134577	2	-.131839	1
2.6	.315358	2	-.107638	2	-.318269	1	.422733	-.398597	1	.141077	2	-.134660	1
2.8	.302985	2	-.114597	2	-.340422	1	.432013	-.418557	1	.147425	2	-.137208	1
3.0	.292076	2	-.121395	2	-.362306	1	.440015	-.438311	1	.153633	2	-.139524	1
3.2	.282361	2	-.128042	2	-.383937	1	.446960	-.457879	1	.159711	2	-.141642	1
3.4	.273631	2	-.134543	2	-.405332	1	.453020	-.477277	1	.165664	2	-.143590	1
3.6	.265727	2	-.140907	2	-.426504	1	.458332	-.496517	1	.171500	2	-.145393	1
3.8	.258523	2	-.147139	2	-.447468	1	.463003	-.515612	1	.177225	2	-.147070	1
4.0	.251920	2	-.153245	2	-.468238	1	.467123	-.534572	1	.182844	2	-.148638	1
4.2	.245836	2	-.159232	2	-.488824	1	.470763	-.553405	1	.188361	2	-.150110	1
4.4	.240205	2	-.165103	2	-.509238	1	.473983	-.572121	1	.193781	2	-.151498	1
4.6	.234971	2	-.170865	2	-.529491	1	.476834	-.590726	1	.199107	2	-.152813	1
4.8	.230090	2	-.176521	2	-.549590	1	.479358	-.609226	1	.204343	2	-.154063	1
5.0	.225522	2	-.182076	2	-.569545	1	.481590	-.627628	1	.209492	2	-.155255	1
5.2	.221234	2	-.187532	2	-.589364	1	.483562	-.645937	1	.214558	2	-.156397	1
5.4	.217198	2	-.192895	2	-.609054	1	.485300	-.664158	1	.219542	2	-.157492	1
5.6	.213390	2	-.198167	2	-.628622	1	.486826	-.682295	1	.224448	2	-.158548	1
5.8	.209788	2	-.203351	2	-.648073	1	.488160	-.700352	1	.229278	2	-.159567	1
6.0	.206374	2	-.208450	2	-.667414	1	.489321	-.718333	1	.234034	2	-.160553	1
6.2	.203133	2	-.213468	2	-.686649	1	.490322	-.736243	1	.238718	2	-.161510	1

Z = 88, A = 222

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$
.4	.461680	1	-.441620	- 2	-.695657	- 3	.120436		-.260740	- 2	.174002	- 1	-.978497
.6	.203001	1	-.821723	- 2	-.129733	- 2	.734731		-.382699	- 2	.254787	- 1	-.477840
.8	.128558	1	-.136778	- 1	-.216569	- 2	.116466	1	-.531717	- 2	.352926	- 1	-.340060
1.0	.970295		-.208922	- 1	-.331913	- 2	.151031	1	-.709070	- 2	.468986	- 1	-.281231
1.2	.805029		-.298902	- 1	-.476631	- 2	.179605	1	-.914975	- 2	.602823	- 1	-.251699
1.4	.705897		-.406695	- 1	-.651092	- 2	.203446	1	-.114942	- 1	.754146	- 1	-.235615
1.6	.640645		-.532129	- 1	-.855442	- 2	.223463	1	-.141238	- 1	.922654	- 1	-.226479
1.8	.594677		-.674974	- 1	-.108973	- 1	.240376	1	-.170382	- 1	.110807		-.221212
2.0	.560576		-.834982	- 1	-.135397	- 1	.254766	1	-.202378	- 1	.131012		-.218218
2.2	.534233		-.101191		-.164817	- 1	.267098	1	-.237228	- 1	.152859		-.216607
2.4	.513211		-.120551		-.197237	- 1	.277741	1	-.274937	- 1	.176324		-.215861
2.6	.495985		-.141556		-.232657	- 1	.286991	1	-.315514	- 1	.201387		-.215665
2.8	.481557		-.164186		-.271085	- 1	.295085	1	-.358967	- 1	.228030		-.215822
3.0	.469251		-.188419		-.312525	- 1	.302212	1	-.405306	- 1	.256234		-.216205
3.2	.458590		-.214236		-.356984	- 1	.308526	1	-.454540	- 1	.285981		-.216731
3.4	.449232		-.241619		-.404470	- 1	.314150	1	-.506683	- 1	.317255		-.217346
3.6	.440925		-.270551		-.454993	- 1	.319187	1	-.561745	- 1	.350041		-.218012
3.8	.433480		-.301016		-.508562	- 1	.323718	1	-.619739	- 1	.384324		-.218704
4.0	.426749		-.332996		-.565188	- 1	.327814	1	-.680678	- 1	.420088		-.219405
4.2	.420619		-.366477		-.624880	- 1	.331531	1	-.744576	- 1	.457319		-.220105
4.4	.415000		-.401444		-.687652	- 1	.334918	1	-.811446	- 1	.496005		-.220794
4.6	.409819		-.437883		-.753514	- 1	.338016	1	-.881301	- 1	.536131		-.221468
4.8	.405018		-.475780		-.822480	- 1	.340858	1	-.954157	- 1	.577686		-.222124
5.0	.400549		-.515121		-.894560	- 1	.343475	1	-.103003		.620655		-.222759
5.2	.396372		-.555893		-.969769	- 1	.345890	1	-.110893		.665028		-.223373
5.4	.392453		-.598084		-.104812		.348127	1	-.119087		.710791		-.223965
5.6	.388764		-.641681		-.112962		.350203	1	-.127587		.757934		-.224535
5.8	.385282		-.686672		-.121430		.352134	1	-.136394		.806444		-.225084
6.0	.381984		-.733045		-.130215		.353936	1	-.145510		.856311		-.225611
6.2	.378855		-.780789		-.139320		.355620	1	-.154936		.907524		-.226118

Z = 89, A = 225

p	F ₀		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁			
.4	.136722	3	-.225499	1	-.646429	-.371726	-.146654	1	.536215	1	-.128711	1	
.6	.944541	2	-.305362	1	-.877359	.221902 - 2	-.180064	1	.656815	1	-.924242		
.8	.739202	2	-.388353	1	-.111906	1	.149510	-.208817	1	.759385	1	-.918621	
1.0	.619311	2	-.472856	1	-.136719	1	.232374	-.234944	1	.851381	1	-.967968	
1.2	.541115	2	-.557313	1	-.161742	1	.286934	-.259462	1	.936565	1	-.102564	1
1.4	.486065	2	-.640728	1	-.186695	1	.326148	-.282917	1	.101698	2	-.108047	1
1.6	.445066	2	-.722553	1	-.211421	1	.355908	-.305818	1	.109370	2	-.112983	1
1.8	.413192	2	-.802526	1	-.235838	1	.379336	-.327744	1	.116770	2	-.117357	1
2.0	.387568	2	-.880552	1	-.259915	1	.398268	-.349417	1	.123919	2	-.121223	1
2.2	.366414	2	-.956626	1	-.283644	1	.413870	-.370715	1	.130857	2	-.124652	1
2.4	.348571	2	-.103080	2	-.307032	1	.426923	-.391693	1	.137606	2	-.127709	1
2.6	.333257	2	-.110313	2	-.330092	1	.437975	-.412391	1	.144185	2	-.130453	1
2.8	.319920	2	-.117371	2	-.352842	1	.447425	-.432841	1	.150606	2	-.132932	1
3.0	.308165	2	-.124262	2	-.375299	1	.455568	-.453068	1	.156882	2	-.135186	1
3.2	.297698	2	-.130994	2	-.397483	1	.462629	-.473092	1	.163022	2	-.137249	1
3.4	.288294	2	-.137575	2	-.419409	1	.468786	-.492931	1	.169032	2	-.139147	1
3.6	.279783	2	-.144012	2	-.441095	1	.474175	-.512600	1	.174921	2	-.140905	1
3.8	.272028	2	-.150313	2	-.462556	1	.478909	-.532110	1	.180695	2	-.142542	1
4.0	.264921	2	-.156482	2	-.483806	1	.483078	-.551473	1	.186359	2	-.144072	1
4.2	.258375	2	-.162527	2	-.504857	1	.486755	-.570699	1	.191917	2	-.145511	1
4.4	.252318	2	-.168453	2	-.525722	1	.490002	-.589795	1	.197375	2	-.146868	1
4.6	.246691	2	-.174265	2	-.546412	1	.492870	-.608771	1	.202736	2	-.148155	1
4.8	.241444	2	-.179967	2	-.566935	1	.495402	-.627632	1	.208003	2	-.149379	1
5.0	.236536	2	-.185565	2	-.587303	1	.497636	-.646386	1	.213181	2	-.150547	1
5.2	.231930	2	-.191061	2	-.607522	1	.499602	-.665038	1	.218273	2	-.151667	1
5.4	.227596	2	-.196459	2	-.627602	1	.501328	-.683593	1	.223281	2	-.152742	1
5.6	.223508	2	-.201764	2	-.647548	1	.502837	-.702056	1	.228208	2	-.153778	1
5.8	.219643	2	-.206978	2	-.667369	1	.504149	-.720432	1	.233056	2	-.154780	1
6.0	.215980	2	-.212105	2	-.687069	1	.505283	-.738725	1	.237829	2	-.155750	1
6.2	.212504	2	-.217147	2	-.706654	1	.506253	-.756938	1	.242528	2	-.156691	1

Z = 89, A = 225

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.488910	1 -.458453 - 2	-.730438 - 3	.104745	-.272475 - 2	.179716 - 1	-.998209
.6	.214124	1 -.849704 - 2	-.135685 - 2	.721730	-.399127 - 2	.262633 - 1	-.482492
.8	.135188	1 -.141080 - 1	-.225932 - 2	.115147	1 -.553685 - 2	.363239 - 1	-.341969
1.0	.101800	1 -.215130 - 1	-.345672 - 2	.149685	1 -.737510 - 2	.482141 - 1	-.282121
1.2	.843148	-.307415 - 1	-.495782 - 2	.178251	1 -.950826 - 2	.619194 - 1	-.252112
1.4	.738321	-.417902 - 1	-.676629 - 2	.202103	1 -.119362 - 1	.774101 - 1	-.235777
1.6	.669341	-.546407 - 1	-.888347 - 2	.222144	1 -.146584 - 1	.946548 - 1	-.226500
1.8	.620754	-.692688 - 1	-.113097 - 1	.239090	1 -.176747 - 1	.113624	-.221152
2.0	.584711	-.856486 - 1	-.140451 - 1	.253517	1 -.209851 - 1	.134292	-.218110
2.2	.556866	-.103754	-.170896 - 1	.265887	1 -.245897 - 1	.156632	-.216472
2.4	.534644	-.123561	-.204433 - 1	.276568	1 -.284893 - 1	.180622	-.215711
2.6	.516433	-.145046	-.241065 - 1	.285856	1 -.326843 - 1	.206242	-.215509
2.8	.501179	-.168185	-.280795 - 1	.293986	1 -.371755 - 1	.233470	-.215664
3.0	.488166	-.192959	-.323629 - 1	.301148	1 -.419640 - 1	.262288	-.216049
3.2	.476891	-.219347	-.369572 - 1	.307494	1 -.470506 - 1	.292678	-.216580
3.4	.466994	-.247331	-.418632 - 1	.313149	1 -.524366 - 1	.324622	-.217200
3.6	.458208	-.276891	-.470817 - 1	.318213	1 -.581230 - 1	.358106	-.217872
3.8	.450332	-.308011	-.526138 - 1	.322771	1 -.641110 - 1	.393111	-.218571
4.0	.443211	-.340674	-.584603 - 1	.326892	1 -.704020 - 1	.429624	-.219280
4.2	.436726	-.374864	-.646223 - 1	.330633	1 -.769972 - 1	.467630	-.219987
4.4	.430781	-.410566	-.711009 - 1	.334042	1 -.838979 - 1	.507115	-.220683
4.6	.425300	-.447765	-.778972 - 1	.337160	1 -.911056 - 1	.548064	-.221365
4.8	.420221	-.486447	-.850125 - 1	.340021	1 -.986215 - 1	.590465	-.222028
5.0	.415493	-.526597	-.924479 - 1	.342655	1 -.106447	.634304	-.222670
5.2	.411073	-.568202	-.100205	.345088	1 -.114584	.679569	-.223291
5.4	.406927	-.611249	-.108284	.347340	1 -.123033	.726247	-.223889
5.6	.403024	-.655724	-.116688	.349431	1 -.131797	.774325	-.224466
5.8	.399339	-.701616	-.125417	.351377	1 -.140875	.823793	-.225020
6.0	.395851	-.748912	-.134472	.353192	1 -.150271	.874638	-.225553
6.2	.392540	-.797600	-.143855	.354888	1 -.159985	.926850	-.226066

Z = 90, A = 228

p	F _o		f ₁		g ₁	tanΔ ₁	f ₋₁		g ₋₁	tanΔ ₋₁			
.4	.146230	3	-.234610	1	-.680665	-.369784	-.152627	1	.551224	1	-.127004	1	
.6	.100939	3	-.316871	1	-.921407	.101874 - 1	-.187325	1	.674941	1	-.899834		
.8	.789136	2	-.402079	1	-.117257	1	.159922	-.217129	1	.779965	1	-.890571	
1.0	.660377	2	-.488650	1	-.142985	1	.244236	-.244157	1	.873971	1	-.937224	
1.2	.576297	2	-.575027	1	-.168888	1	.299792	-.269474	1	.960852	1	-.992738	
1.4	.517046	2	-.660215	1	-.194682	1	.339745	-.293655	1	.104273	2	-.104578	1
1.6	.472885	2	-.743674	1	-.220209	1	.370081	-.317025	1	.112083	2	-.109303	1
1.8	.438533	2	-.825150	1	-.245389	1	.393969	-.339782	1	.119591	2	-.113607	1
2.0	.410908	2	-.904559	1	-.270192	1	.413275	-.362049	1	.126844	2	-.117363	1
2.2	.388096	2	-.981908	1	-.294614	1	.429183	-.383912	1	.133877	2	-.120695	1
2.4	.368855	2	-.105725	2	-.318664	1	.442490	-.405428	1	.140713	2	-.123668	1
2.6	.352340	2	-.113067	2	-.342358	1	.453753	-.426642	1	.147370	2	-.126337	1
2.8	.337961	2	-.120225	2	-.365714	1	.463377	-.447588	1	.153865	2	-.128750	1
3.0	.325289	2	-.127209	2	-.388755	1	.471665	-.468293	1	.160207	2	-.130946	1
3.2	.314006	2	-.134026	2	-.411498	1	.478846	-.488779	1	.166408	2	-.132956	1
3.4	.303874	2	-.140686	2	-.433964	1	.485100	-.509064	1	.172475	2	-.134808	1
3.6	.294705	2	-.147196	2	-.456170	1	.490569	-.529163	1	.178416	2	-.136524	1
3.8	.286354	2	-.153564	2	-.478133	1	.495366	-.549091	1	.184237	2	-.138122	1
4.0	.278703	2	-.159796	2	-.499867	1	.499583	-.568859	1	.189944	2	-.139618	1
4.2	.271658	2	-.165898	2	-.521387	1	.503295	-.588477	1	.195542	2	-.141024	1
4.4	.265142	2	-.171877	2	-.542706	1	.506567	-.607956	1	.201036	2	-.142353	1
4.6	.259090	2	-.177738	2	-.563834	1	.509450	-.627303	1	.206430	2	-.143613	1
4.8	.253449	2	-.183485	2	-.584784	1	.511989	-.646525	1	.211728	2	-.144813	1
5.0	.248173	2	-.189123	2	-.605565	1	.514221	-.665630	1	.216933	2	-.145959	1
5.2	.243225	2	-.194657	2	-.626186	1	.516178	-.684624	1	.222049	2	-.147057	1
5.4	.238570	2	-.200090	2	-.646655	1	.517889	-.703513	1	.227078	2	-.148113	1
5.6	.234181	2	-.205426	2	-.666981	1	.519377	-.722301	1	.232025	2	-.149132	1
5.8	.230032	2	-.210669	2	-.687169	1	.520663	-.740994	1	.236890	2	-.150117	1
6.0	.226103	2	-.215821	2	-.707228	1	.521766	-.759596	1	.241678	2	-.151072	1
6.2	.222373	2	-.220886	2	-.727163	1	.522701	-.778111	1	.246389	2	-.151999	1

Z = 90, A' = 228

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.517782	1 -.475919 - 2	-.766857 - 3	.891274 - 1	-.284693 - 2	.185610 - 1	-.101837	1
.6	.225887	1 -.878656 - 2	-.141896 - 2	.708971	-.416208 - 2	.270720 - 1	-.487121	
.8	.142183	1 -.145523 - 1	-.235681 - 2	.113860	1 -.576500 - 2	.373859 - 1	-.343823	
1.0	.106825	1 -.221532 - 1	-.359974 - 2	.148376	1 -.767013 - 2	.495674 - 1	-.282947	
1.2	.883237	-.316183 - 1	-.515664 - 2	.176940	1 -.987987 - 2	.636025 - 1	-.252457	
1.4	.772380	-.429433 - 1	-.703113 - 2	.200809	1 -.123940 - 1	.794603 - 1	-.235869	
1.6	.699454	-.561087 - 1	-.922446 - 2	.220879	1 -.152119 - 1	.971085 - 1	-.226450	
1.8	.648094	-.710891 - 1	-.117368 - 1	.237861	1 -.183332 - 1	.116516	-.221021	
2.0	.609996	-.878572 - 1	-.145682 - 1	.252329	1 -.217578 - 1	.137656	-.217931	
2.2	.580563	-.106386	-.177184 - 1	.264741	1 -.254860 - 1	.160502	-.216265	
2.4	.557072	-.126650	-.211875 - 1	.275464	1 -.295180 - 1	.185029	-.215490	
2.6	.537818	-.148625	-.249755 - 1	.284793	1 -.338544 - 1	.211217	-.215281	
2.8	.521689	-.172287	-.290827 - 1	.292961	1 -.384960 - 1	.239043	-.215435	
3.0	.507928	-.197613	-.335097 - 1	.300160	1 -.434437 - 1	.268489	-.215821	
3.2	.496005	-.224585	-.382568 - 1	.306540	1 -.486983 - 1	.299535	-.216356	
3.4	.485537	-.253181	-.433249 - 1	.312227	1 -.542610 - 1	.332164	-.216982	
3.6	.476243	-.283383	-.487146 - 1	.317322	1 -.601328 - 1	.366359	-.217660	
3.8	.467912	-.315172	-.544268 - 1	.321909	1 -.663149 - 1	.402103	-.218366	
4.0	.460379	-.348532	-.604626 - 1	.326056	1 -.728085 - 1	.439381	-.219082	
4.2	.453518	-.383446	-.668228 - 1	.329821	1 -.796149 - 1	.478176	-.219796	
4.4	.447229	-.419898	-.735085 - 1	.333253	1 -.867354 - 1	.518475	-.220500	
4.6	.441430	-.457873	-.805209 - 1	.336393	1 -.941713 - 1	.560264	-.221188	
4.8	.436056	-.497355	-.878610 - 1	.339275	1 -.101924	.603528	-.221858	
5.0	.431054	-.538330	-.955301 - 1	.341928	1 -.109995	.648253	-.222508	
5.2	.426378	-.580784	-.103529	.344378	1 -.118385	.694427	-.223135	
5.4	.421991	-.624704	-.111860	.346648	1 -.127096	.742036	-.223740	
5.6	.417863	-.670075	-.120523	.348754	1 -.136130	.791068	-.224323	
5.8	.413964	-.716885	-.129521	.350715	1 -.145487	.841511	-.224883	
6.0	.410274	-.765121	-.138853	.352544	1 -.155170	.893353	-.225422	
6.2	.406772	-.814770	-.148522	.354253	1 -.165179	.946580	-.225941	

Z = 91, A = 234

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.156164	3	-.243858	1	-.716115		-.367557		-.158661	1	.566052	1	-.125290	1
.6	.107705	3	-.328507	1	-.966881		.184627 - 1		-.194653	1	.692823	1	-.875649	
.8	.841148	2	-.415899	1	-.122765	1	.170696		-.225511	1	.800229	1	-.862877	
1.0	.703073	2	-.504487	1	-.149418	1	.256504		-.253438	1	.896166	1	-.906944	
1.2	.612805	2	-.592721	1	-.176206	1	.313089		-.279548	1	.984658	1	-.960393	
1.4	.549131	2	-.679609	1	-.202843	1	.353807		-.304446	1	.106791	2	-.101172	1
1.6	.501638	2	-.764619	1	-.229169	1	.384737		-.328478	1	.114721	2	-.105814	1
1.8	.464676	2	-.847509	1	-.255109	1	.409099		-.351852	1	.122334	2	-.109937	1
2.0	.434942	2	-.928207	1	-.280635	1	.428788		-.374700	1	.129681	2	-.113588	1
2.2	.410385	2	-.100673	2	-.305743	1	.445011		-.397113	1	.136797	2	-.116830	1
2.4	.389670	2	-.108314	2	-.330447	1	.458575		-.419154	1	.143709	2	-.119724	1
2.6	.371892	2	-.115754	2	-.354765	1	.470051		-.440869	1	.150434	2	-.122324	1
2.8	.356415	2	-.123001	2	-.378719	1	.479850		-.462296	1	.156989	2	-.124677	1
3.0	.342777	2	-.130065	2	-.402332	1	.488280		-.483462	1	.163386	2	-.126818	1
3.2	.330639	2	-.136957	2	-.425624	1	.495578		-.504392	1	.169636	2	-.128781	1
3.4	.319741	2	-.143684	2	-.448617	1	.501925		-.525106	1	.175747	2	-.130590	1
3.6	.309882	2	-.150255	2	-.471330	1	.507466		-.545619	1	.181728	2	-.132268	1
3.8	.300905	2	-.156678	2	-.493781	1	.512319		-.565948	1	.187584	2	-.133832	1
4.0	.292684	2	-.162960	2	-.515986	1	.516576		-.586103	1	.193322	2	-.135297	1
4.2	.285116	2	-.169108	2	-.537961	1	.520317		-.606097	1	.198948	2	-.136675	1
4.4	.278119	2	-.175127	2	-.559718	1	.523604		-.625940	1	.204465	2	-.137979	1
4.6	.271623	2	-.181024	2	-.581272	1	.526492		-.645640	1	.209880	2	-.139216	1
4.8	.265570	2	-.186804	2	-.602633	1	.529027		-.665206	1	.215195	2	-.140395	1
5.0	.259910	2	-.192471	2	-.623811	1	.531246		-.684644	1	.220415	2	-.141523	1
5.2	.254604	2	-.198030	2	-.644818	1	.533183		-.703963	1	.225542	2	-.142604	1
5.4	.249614	2	-.203484	2	-.665662	1	.534867		-.723167	1	.230581	2	-.143645	1
5.6	.244911	2	-.208839	2	-.686350	1	.536322		-.742262	1	.235534	2	-.144649	1
5.8	.240467	2	-.214097	2	-.706891	1	.537570		-.761254	1	.240404	2	-.145621	1
6.0	.236259	2	-.219262	2	-.727292	1	.538629		-.780147	1	.245193	2	-.146564	1
6.2	.232267	2	-.224337	2	-.747560	1	.539517		-.798946	1	.249904	2	-.147481	1

Z = 91, A = 234

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.547862	1 -.495919 - 2	-.808221 - 3	.735753 - 1	-.298544 - 2	.192417 - 1	-.103900	1
.6	.238096	1 -.912061 - 2	-.148974 - 2	.696448	-.435622 - 2	.280112 - 1	-.491727	
.8	.149419	1 -.150680 - 1	-.246821 - 2	.112605	1 -.602485 - 2	.386250 - 1	-.345620	
1.0	.112009	1 -.228996 - 1	-.376354 - 2	.147105	1 -.800676 - 2	.511525 - 1	-.283707	
1.2	.924503	-.326443 - 1	-.538477 - 2	.175673	1 -.103045 - 1	.655797 - 1	-.252732	
1.4	.807374	-.442966 - 1	-.733549 - 2	.199562	1 -.129178 - 1	.818746 - 1	-.235891	
1.6	.730346	-.578356 - 1	-.961685 - 2	.219666	1 -.158459 - 1	.100004	-.226330	
1.8	.676105	-.732346 - 1	-.122289 - 1	.236690	1 -.190884 - 1	.119935	-.220818	
2.0	.635871	-.904648 - 1	-.151715 - 1	.251202	1 -.226449 - 1	.141638	-.217679	
2.2	.604787	-.109498	-.184444 - 1	.263659	1 -.265157 - 1	.165088	-.215986	
2.4	.579976	-.130307	-.220474 - 1	.274427	1 -.307010 - 1	.190258	-.215196	
2.6	.559640	-.152867	-.259806 - 1	.283799	1 -.352013 - 1	.217125	-.214980	
2.8	.542602	-.177152	-.302442 - 1	.292010	1 -.400172 - 1	.245668	-.215132	
3.0	.528063	-.203140	-.348384 - 1	.299247	1 -.451496 - 1	.275866	-.215521	
3.2	.515466	-.230810	-.397639 - 1	.305664	1 -.505994 - 1	.307700	-.216059	
3.4	.504405	-.260140	-.450212 - 1	.311386	1 -.563676 - 1	.341150	-.216690	
3.6	.494584	-.291110	-.506110 - 1	.316513	1 -.624552 - 1	.376199	-.217375	
3.8	.485779	-.323703	-.565342 - 1	.321129	1 -.688634 - 1	.412829	-.218088	
4.0	.477818	-.357899	-.627915 - 1	.325304	1 -.755934 - 1	.451025	-.218811	
4.2	.470567	-.393682	-.693841 - 1	.329096	1 -.826463 - 1	.490770	-.219532	
4.4	.463920	-.431034	-.763129 - 1	.332553	1 -.900236 - 1	.532049	-.220243	
4.6	.457791	-.469941	-.835790 - 1	.335715	1 -.977265 - 1	.574847	-.220939	
4.8	.452112	-.510385	-.911835 - 1	.338618	1 -.105756	.619149	-.221616	
5.0	.446825	-.552352	-.991275 - 1	.341292	1 -.114114	.664942	-.222272	
5.2	.441883	-.595828	-.107412	.343761	1 -.122802	.712211	-.222906	
5.4	.437246	-.640797	-.116039	.346048	1 -.131821	.760943	-.223518	
5.6	.432883	-.687247	-.125009	.348172	1 -.141172	.811124	-.224106	
5.8	.428763	-.735162	-.134323	.350148	1 -.150857	.862743	-.224673	
6.0	.424863	-.784531	-.143984	.351992	1 -.160878	.915785	-.225218	
6.2	.421162	-.835339	-.153991	.353715	1 -.171235	.970240	-.225742	

Z = 92, A = 233

p	F _o		f ₁		g ₁	tanΔ ₁		f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.167737	3	-.254201	1	-.755130	-.365020		-.165397	1	.583000	1	-.123548	1
.6	.115587	3	-.341566	1	-.101693	1	.270736 - 1	-.202834	1	.713290	1	-.851530	
.8	.901737	2	-.431462	1	-.128827	1	.181871	-.234867	1	.823468	1	-.835366	
1.0	.752817	2	-.522383	1	-.156497	1	.269229	-.263797	1	.921681	1	-.876929	
1.2	.655347	2	-.612781	1	-.184258	1	.326890	-.290793	1	.101210	2	-.928375	
1.4	.586528	2	-.701670	1	-.211819	1	.368413	-.316494	1	.109703	2	-.978051	
1.6	.535162	2	-.788524	1	-.239024	1	.399972	-.341264	1	.117781	2	-.102307	1
1.8	.495165	2	-.873115	1	-.265798	1	.424837	-.365327	1	.125527	2	-.106311	1
2.0	.462980	2	-.955381	1	-.292115	1	.444937	-.388825	1	.132994	2	-.109859	1
2.2	.436395	2	-.103535	2	-.317976	1	.461498	-.411852	1	.140220	2	-.113011	1
2.4	.413970	2	-.111311	2	-.343397	1	.475343	-.434478	1	.147232	2	-.115827	1
2.6	.394725	2	-.118874	2	-.368400	1	.487052	-.456753	1	.154050	2	-.118358	1
2.8	.377974	2	-.126236	2	-.393009	1	.497045	-.478716	1	.160691	2	-.120649	1
3.0	.363217	2	-.133407	2	-.417248	1	.505637	-.500398	1	.167168	2	-.122736	1
3.2	.350086	2	-.140398	2	-.441141	1	.513068	-.521824	1	.173491	2	-.124650	1
3.4	.338300	2	-.147218	2	-.464711	1	.519525	-.543016	1	.179671	2	-.126414	1
3.6	.327642	2	-.153875	2	-.487980	1	.525156	-.563991	1	.185715	2	-.128052	1
3.8	.317940	2	-.160378	2	-.510966	1	.530080	-.584766	1	.191630	2	-.129579	1
4.0	.309057	2	-.166735	2	-.533687	1	.534394	-.605355	1	.197424	2	-.131010	1
4.2	.300885	2	-.172952	2	-.556159	1	.538177	-.625768	1	.203100	2	-.132358	1
4.4	.293331	2	-.179037	2	-.578397	1	.541495	-.646017	1	.208666	2	-.133634	1
4.6	.286320	2	-.184994	2	-.600416	1	.544403	-.666111	1	.214124	2	-.134845	1
4.8	.279790	2	-.190830	2	-.622227	1	.546947	-.686060	1	.219480	2	-.136000	1
5.0	.273687	2	-.196550	2	-.643842	1	.549168	-.705871	1	.224738	2	-.137104	1
5.2	.267966	2	-.202158	2	-.665271	1	.551100	-.725552	1	.229901	2	-.138165	1
5.4	.262589	2	-.207658	2	-.686525	1	.552771	-.745108	1	.234972	2	-.139186	1
5.6	.257522	2	-.213055	2	-.707611	1	.554207	-.764546	1	.239955	2	-.140172	1
5.8	.252736	2	-.218353	2	-.728539	1	.555431	-.783872	1	.244853	2	-.141127	1
6.0	.248207	2	-.223555	2	-.749315	1	.556461	-.803091	1	.249668	2	-.142053	1
6.2	.243910	2	-.228663	2	-.769948	1	.557314	-.822206	1	.254402	2	-.142955	1

Z = 92, A = 233

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$	
.4	.581058	1	-.512210	- 2	-.843795	- 3	.580814	- 1	-.310268	- 2	.197718	- 1	-.106013	1
.6	.251572	1	-.938441	- 2	-.154936	- 2	.684154		-.451868	- 2	.287288	- 1	-.496309	
.8	.157409	1	-.154656	- 1	-.256059	- 2	.111379	1	-.624011	- 2	.395562	- 1	-.347359	
1.0	.117734	1	-.234646	- 1	-.389773	- 2	.145870	1	-.828329	- 2	.523275	- 1	-.284402	
1.2	.970091		-.334098	- 1	-.556988	- 2	.174447	1	-.106508	- 1	.670289	- 1	-.252939	
1.4	.846043		-.452946	- 1	-.758054	- 2	.198362	1	-.133424	- 1	.836279	- 1	-.235841	
1.6	.764489		-.590971	- 1	-.993068	- 2	.218505	1	-.163571	- 1	.102090		-.226137	
1.8	.707070		-.747891	- 1	-.126202	- 1	.235574	1	-.196942	- 1	.122381		-.220542	
2.0	.664481		-.923410	- 1	-.156488	- 1	.250134	1	-.233535	- 1	.144472		-.217355	
2.2	.631577		-.111724		-.190160	- 1	.262641	1	-.273348	- 1	.168334		-.215634	
2.4	.605311		-.132909		-.227216	- 1	.273457	1	-.316384	- 1	.193941		-.214829	
2.6	.583780		-.155869		-.267654	- 1	.282876	1	-.362646	- 1	.221270		-.214606	
2.8	.565740		-.180581		-.311475	- 1	.291130	1	-.412140	- 1	.250298		-.214756	
3.0	.550345		-.207020		-.358682	- 1	.298409	1	-.464873	- 1	.281003		-.215146	
3.2	.537003		-.235162		-.409278	- 1	.304866	1	-.520853	- 1	.313365		-.215689	
3.4	.525289		-.264988		-.463269	- 1	.310624	1	-.580090	- 1	.347365		-.216325	
3.6	.514887		-.296477		-.520660	- 1	.315785	1	-.642592	- 1	.382985		-.217017	
3.8	.505561		-.329609		-.581459	- 1	.320433	1	-.708372	- 1	.420207		-.217736	
4.0	.497128		-.364366		-.645675	- 1	.324638	1	-.777440	- 1	.459014		-.218466	
4.2	.489447		-.400729		-.713315	- 1	.320457	1	-.849808	- 1	.499389		-.219194	
4.4	.482406		-.438682		-.784390	- 1	.331940	1	-.925488	- 1	.541316		-.219913	
4.6	.475914		-.478208		-.858910	- 1	.335126	1	-.100449		.584781		-.220616	
4.8	.469897		-.519290		-.936884	- 1	.338052	1	-.108684		.629768		-.221300	
5.0	.464296		-.561914		-.101833		.340747	1	-.117253		.676262		-.221962	
5.2	.459061		-.606064		-.110324		.343236	1	-.126158		.724250		-.222603	
5.4	.454151		-.651725		-.119165		.345542	1	-.135402		.773717		-.223221	
5.6	.449528		-.698883		-.128356		.347683	1	-.144984		.824650		-.223816	
5.8	.445165		-.747524		-.137898		.349676	1	-.154907		.877035		-.224389	
6.0	.441034		-.797635		-.147792		.351536	1	-.165172		.930861		-.224940	
6.2	.437115		-.849201		-.158041		.353274	1	-.175780		.986113		-.225469	

Z = 93, A = 237

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.179638	3	-.264527	1	-.795106		-.362182		-.172083	1	.599327	1	-.121801	1
.6	.123678	3	-.354536	1	-.106804	1	.360093 - 1		-.210946	1	.732966	1	-.827632	
.8	.963811	2	-.446834	1	-.134994	1	.193434		-.244134	1	.845754	1	-.808200	
1.0	.803665	2	-.539965	1	-.163675	1	.282394		-.274044	1	.946077	1	-.847367	
1.2	.698730	2	-.632388	1	-.192398	1	.341169		-.301900	1	.103825	2	-.896907	
1.4	.624573	2	-.723125	1	-.220871	1	.383524		-.328375	1	.112468	2	-.945013	
1.6	.569184	2	-.811662	1	-.248938	1	.415731		-.353856	1	.120676	2	-.988719	
1.8	.526036	2	-.897784	1	-.276526	1	.441114		-.378579	1	.128536	2	-.102764	1
2.0	.491305	2	-.981443	1	-.303614	1	.461635		-.402695	1	.136105	2	-.106216	1
2.2	.462615	2	-.106268	2	-.330206	1	.478539		-.426306	1	.143422	2	-.109286	1
2.4	.438414	2	-.114159	2	-.356322	1	.492666		-.449486	1	.150516	2	-.112030	1
2.6	.417648	2	-.121828	2	-.381985	1	.504607		-.472289	1	.157407	2	-.114498	1
2.8	.399575	2	-.129286	2	-.407223	1	.514791		-.494757	1	.164114	2	-.116733	1
3.0	.383659	2	-.136545	2	-.432063	1	.523538		-.516922	1	.170651	2	-.118771	1
3.2	.369500	2	-.143615	2	-.456531	1	.531096		-.538812	1	.177028	2	-.120641	1
3.4	.356795	2	-.150507	2	-.480652	1	.537653		-.560451	1	.183257	2	-.122367	1
3.6	.345309	2	-.157231	2	-.504449	1	.543363		-.581857	1	.189344	2	-.123969	1
3.8	.334858	2	-.163794	2	-.527943	1	.548347		-.603047	1	.195299	2	-.125465	1
4.0	.325294	2	-.170206	2	-.551152	1	.552704		-.624035	1	.201127	2	-.126868	1
4.2	.316497	2	-.176473	2	-.574094	1	.556515		-.644836	1	.206834	2	-.128190	1
4.4	.308369	2	-.182602	2	-.596786	1	.559848		-.665460	1	.212427	2	-.129442	1
4.6	.300828	2	-.188600	2	-.619242	1	.562760		-.685918	1	.217910	2	-.130633	1
4.8	.293807	2	-.194472	2	-.641476	1	.565299		-.706219	1	.223286	2	-.131768	1
5.0	.287248	2	-.200224	2	-.663499	1	.567505		-.726371	1	.228562	2	-.132856	1
5.2	.281101	2	-.205860	2	-.685323	1	.569413		-.746383	1	.233740	2	-.133900	1
5.4	.275327	2	-.211386	2	-.706958	1	.571053		-.766261	1	.238823	2	-.134907	1
5.6	.269887	2	-.216805	2	-.728414	1	.572452		-.786011	1	.243816	2	-.135879	1
5.8	.264751	2	-.222121	2	-.749701	1	.573632		-.805640	1	.248721	2	-.136822	1
6.0	.259891	2	-.227339	2	-.770825	1	.574613		-.825154	1	.253540	2	-.137737	1
6.2	.255284	2	-.232461	2	-.791794	1	.575413		-.844557	1	.258278	2	-.138628	1

Z = 93, A = 237

p	$\overline{F}$		f_2		g_2		$\tan\Delta_2$		f'_2		g'_2		$\tan\Delta'_2$	
.4	.615303	1	-.532371	- 2	-.886714	- 3	.426385	- 1	-.324447	- 2	.204440	- 1	-.108176	1
.6	.265412	1	-.971703	- 2	-.162202	- 2	.672082		-.471638	- 2	.296506	- 1	-.500866	
.8	.165582	1	-.159744	- 1	-.267404	- 2	.110183	1	-.650352	- 2	.407656	- 1	-.349041	
1.0	.123572	1	-.241961	- 1	-.406358	- 2	.144671	1	-.862322	- 2	.538674	- 1	-.285030	
1.2	.101645	1	-.344098	- 1	-.579982	- 2	.173261	1	-.110783	- 1	.689425	- 1	-.253076	
1.4	.885280		-.466081	- 1	-.788621	- 2	.197209	1	-.138682	- 1	.859571	- 1	-.235721	
1.6	.799070		-.607675	- 1	-.103236	- 1	.217394	1	-.169920	- 1	.104875		-.225872	
1.8	.738382		-.768584	- 1	-.131117	- 1	.234513	1	-.204489	- 1	.125662		-.220194	
2.0	.693369		-.948497	- 1	-.162500	- 1	.249126	1	-.242384	- 1	.148286		-.216958	
2.2	.658592		-.114711		-.197380	- 1	.261685	1	-.283602	- 1	.172719		-.215209	
2.4	.630830		-.136412		-.235752	- 1	.272553	1	-.328146	- 1	.198932		-.214388	
2.6	.608070		-.159926		-.277615	- 1	.282021	1	-.376017	- 1	.226902		-.214158	
2.8	.588999		-.185227		-.322967	- 1	.290322	1	-.427220	- 1	.256604		-.214307	
3.0	.572723		-.212289		-.371811	- 1	.297646	1	-.481762	- 1	.288016		-.214698	
3.2	.558617		-.241090		-.424148	- 1	.304143	1	-.539651	- 1	.321117		-.215245	
3.4	.546231		-.271606		-.479984	- 1	.309940	1	-.600894	- 1	.355888		-.215886	
3.6	.535231		-.303817		-.539323	- 1	.315137	1	-.665501	- 1	.392308		-.216584	
3.8	.525369		-.337703		-.602173	- 1	.319819	1	-.733483	- 1	.430360		-.217310	
4.0	.516451		-.373243		-.668541	- 1	.324055	1	-.804850	- 1	.470025		-.218047	
4.2	.508328		-.410420		-.738435	- 1	.327904	1	-.879613	- 1	.511287		-.218783	
4.4	.500881		-.449216		-.811864	- 1	.331414	1	-.957785	- 1	.554129		-.219508	
4.6	.494015		-.489613		-.888838	- 1	.334626	1	-.103938		.598535		-.220218	
4.8	.487652		-.531594		-.969367	- 1	.337576	1	-.112440		.644490		-.220909	
5.0	.481729		-.575144		-.105346		.340293	1	-.121287		.691978		-.221578	
5.2	.476193		-.620246		-.114113		.342803	1	-.130480		.740985		-.222226	
5.4	.471000		-.666886		-.123239		.345129	1	-.140020		.791495		-.222850	
5.6	.466112		-.715047		-.132725		.347289	1	-.149909		.843496		-.223451	
5.8	.461498		-.764717		-.142571		.349299	1	-.160147		.896973		-.224030	
6.0	.457131		-.815880		-.152780		.351175	1	-.170737		.951913		-.224587	
6.2	.452987		-.868522		-.163352		.352929	1	-.181679		.100830	1	-.225122	

Z = 94, A = 238

p	F ₀		f ₁		g ₁	tanΔ ₁		f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.192956	3	-.275657	1	-.838115	-.359020		-.179268	1	.616969	1	-.120031	1
.6	.132727	3	-.368523	1	-.112296	1	.452976 - 1	-.219659	1	.754235	1	-.803823	
.8	.103319	3	-.463419	1	-.141615	1	.205425	-.254084	1	.869853	1	-.781235	
1.0	.860458	2	-.558941	1	-.171372	1	.296050	-.285042	1	.972474	1	-.818089	
1.2	.747152	2	-.653561	1	-.201117	1	.355988	-.313817	1	.106657	2	-.865792	
1.4	.667008	2	-.746306	1	-.230557	1	.399217	-.341117	1	.115465	2	-.912386	
1.6	.607108	2	-.836678	1	-.259536	1	.432106	-.367354	1	.123817	2	-.954824	
1.8	.560425	2	-.924474	1	-.287985	1	.458037	-.392778	1	.131804	2	-.992667	
2.0	.522841	2	-.100966	2	-.315887	1	.479001	-.417550	1	.139487	2	-.102626	1
2.2	.491791	2	-.109230	2	-.343250	1	.496269	-.441781	1	.146906	2	-.105616	1
2.4	.465601	2	-.117249	2	-.370097	1	.510697	-.465548	1	.154092	2	-.108290	1
2.6	.443131	2	-.125035	2	-.396455	1	.522885	-.488909	1	.161069	2	-.110697	1
2.8	.423580	2	-.132601	2	-.422354	1	.533273	-.511910	1	.167852	2	-.112878	1
3.0	.406366	2	-.139958	2	-.447826	1	.542189	-.534585	1	.174459	2	-.114867	1
3.2	.391057	2	-.147119	2	-.472898	1	.549883	-.556966	1	.180900	2	-.116694	1
3.4	.377325	2	-.154095	2	-.497597	1	.556550	-.579075	1	.187187	2	-.118382	1
3.6	.364916	2	-.160895	2	-.521948	1	.562347	-.600934	1	.193328	2	-.119949	1
3.8	.353629	2	-.167529	2	-.545973	1	.567398	-.622562	1	.199332	2	-.121414	1
4.0	.343303	2	-.174006	2	-.569693	1	.571805	-.643972	1	.205204	2	-.122788	1
4.2	.333809	2	-.180332	2	-.593127	1	.575650	-.665181	1	.210952	2	-.124085	1
4.4	.325041	2	-.186516	2	-.616293	1	.579004	-.686199	1	.216582	2	-.125313	1
4.6	.316909	2	-.192564	2	-.639206	1	.581925	-.707039	1	.222097	2	-.126482	1
4.8	.309341	2	-.198482	2	-.661880	1	.584462	-.727709	1	.227504	2	-.127598	1
5.0	.302273	2	-.204276	2	-.684329	1	.586657	-.748220	1	.232807	2	-.128667	1
5.2	.295654	2	-.209950	2	-.706564	1	.588545	-.768579	1	.238008	2	-.129694	1
5.4	.289436	2	-.215510	2	-.728598	1	.590158	-.788794	1	.243113	2	-.130685	1
5.6	.283581	2	-.220960	2	-.750440	1	.591523	-.808872	1	.248125	2	-.131643	1
5.8	.278056	2	-.226305	2	-.772099	1	.592663	-.828820	1	.253046	2	-.132572	1
6.0	.272829	2	-.231548	2	-.793585	1	.593599	-.848643	1	.257880	2	-.133474	1
6.2	.267876	2	-.236693	2	-.814905	1	.594348	-.868346	1	.262630	2	-.134354	1

Z = 94, A = 238

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.652276	1 -.551285 - 2	-.928085 - 3	.272394 - 1	-.337977 - 2	.210608 - 1	-.110392	1
.6	.280335	1 -.100247 - 1	-.169133 - 2	.660226	-.490404 - 2	.304897 - 1	-.505398	
.8	.174384	1 -.164400 - 1	-.278144 - 2	.109015	1 -.675235 - 2	.418587 - 1	-.350663	
1.0	.129853	1 -.248598 - 1	-.421964 - 2	.143506	1 -.894304 - 2	.552509 - 1	-.285591	
1.2	.106630	1 -.353114 - 1	-.601519 - 2	.172116	1 -.114790 - 1	.706532 - 1	-.253142	
1.4	.927448	-.477862 - 1	-.817142 - 2	.196100	1 -.143598 - 1	.880309 - 1	-.235528	
1.6	.836216	-.622592 - 1	-.106890 - 1	.216333	1 -.175841 - 1	.107347	-.225535	
1.8	.772002	-.786995 - 1	-.135675 - 1	.233506	1 -.211510 - 1	.128565	-.219772	
2.0	.724377	-.970746 - 1	-.168063 - 1	.248176	1 -.250598 - 1	.151652	-.216487	
2.2	.687581	-.117353	-.204045 - 1	.260791	1 -.293103 - 1	.176579	-.214710	
2.4	.658205	-.139504	-.243616 - 1	.271714	1 -.339023 - 1	.203316	-.213874	
2.6	.634122	-.163498	-.286773 - 1	.281235	1 -.388361 - 1	.231839	-.213636	
2.8	.613939	-.189309	-.333514 - 1	.289586	1 -.441120 - 1	.262123	-.213783	
3.0	.596714	-.216911	-.383839 - 1	.296956	1 -.497305 - 1	.294143	-.214176	
3.2	.581783	-.246279	-.437749 - 1	.303497	1 -.556923 - 1	.327880	-.214726	
3.4	.568672	-.277390	-.495249 - 1	.309335	1 -.619982 - 1	.363312	-.215373	
3.6	.557029	-.310223	-.556342 - 1	.314570	1 -.686491 - 1	.400418	-.216076	
3.8	.546589	-.344756	-.621034 - 1	.319287	1 -.756459 - 1	.439181	-.216809	
4.0	.537149	-.380970	-.689333 - 1	.323556	1 -.829896 - 1	.479581	-.217553	
4.2	.528550	-.418844	-.761245 - 1	.327436	1 -.906813 - 1	.521601	-.218296	
4.4	.520666	-.458362	-.836780 - 1	.330975	1 -.987221 - 1	.565224	-.219028	
4.6	.513397	-.499504	-.915944 - 1	.334214	1 -.107113	.610433	-.219745	
4.8	.506662	-.542253	-.998750 - 1	.337189	1 -.115856	.657212	-.220443	
5.0	.500392	-.586593	-.108520	.339930	1 -.124951	.705546	-.221120	
5.2	.494531	-.632507	-.117532	.342463	1 -.134400	.755419	-.221773	
5.4	.489034	-.679980	-.126911	.344809	1 -.144204	.806816	-.222404	
5.6	.483861	-.728996	-.136658	.346988	1 -.154365	.859723	-.223012	
5.8	.478977	-.779539	-.146774	.349017	1 -.164884	.914125	-.223596	
6.0	.474355	-.831596	-.157260	.350911	1 -.175761	.970009	-.224158	
6.2	.469969	-.885152	-.168118	.352681	1 -.186999	.102736	1 -.224699	

Z = 95, A = 243

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.206786	3	-.286855	1	-.882377		-.355536		-.186450	1	.634151	1	-.118253	1
.6	.142109	3	-.382530	1	-.117929	1	.549357	- 1	-.228362	1	.774907	1	-.780199	
.8	.110498	3	-.479946	1	-.148382	1	.217842		-.264009	1	.893220	1	-.754569	
1.0	.919094	2	-.577760	1	-.179215	1	.310192		-.295998	1	.998000	1	-.789207	
1.2	.797032	2	-.674458	1	-.209976	1	.371340		-.325671	1	.109388	2	-.835160	
1.4	.710620	2	-.769082	1	-.240372	1	.415477		-.353774	1	.118345	2	-.880323	
1.6	.645995	2	-.861148	1	-.270250	1	.449074		-.380742	1	.126825	2	-.921566	
1.8	.595611	2	-.950471	1	-.299544	1	.475569		-.406840	1	.134923	2	-.958399	
2.0	.555038	2	-.103703	2	-.328242	1	.496991		-.432242	1	.142703	2	-.991133	
2.2	.521517	2	-.112091	2	-.356356	1	.514631		-.457063	1	.150209	2	-.102029	1
2.4	.493244	2	-.120222	2	-.383912	1	.529362		-.481388	1	.157471	2	-.104638	1
2.6	.468992	2	-.128108	2	-.410942	1	.541799		-.505278	1	.164514	2	-.106989	1
2.8	.447895	2	-.135765	2	-.437480	1	.552389		-.528783	1	.171358	2	-.109121	1
3.0	.429325	2	-.143204	2	-.463558	1	.561467		-.551939	1	.178017	2	-.111068	1
3.2	.412817	2	-.150439	2	-.489208	1	.569291		-.574779	1	.184505	2	-.112856	1
3.4	.398014	2	-.157481	2	-.514459	1	.576060		-.597330	1	.190833	2	-.114510	1
3.6	.384642	2	-.164340	2	-.539338	1	.581934		-.619612	1	.197010	2	-.116047	1
3.8	.372483	2	-.171027	2	-.563868	1	.587040		-.641646	1	.203044	2	-.117485	1
4.0	.361366	2	-.177551	2	-.588072	1	.591483		-.663448	1	.208944	2	-.118836	1
4.2	.351147	2	-.183919	2	-.611971	1	.595349		-.685034	1	.214714	2	-.120111	1
4.4	.341714	2	-.190140	2	-.635583	1	.598709		-.706416	1	.220363	2	-.121320	1
4.6	.332969	2	-.196220	2	-.658925	1	.601623		-.727607	1	.225894	2	-.122471	1
4.8	.324834	2	-.202166	2	-.682013	1	.604142		-.748617	1	.231313	2	-.123571	1
5.0	.317239	2	-.207983	2	-.704860	1	.606308		-.769457	1	.236625	2	-.124626	1
5.2	.310129	2	-.213678	2	-.727479	1	.608160		-.790134	1	.241833	2	-.125641	1
5.4	.303453	2	-.219255	2	-.749883	1	.609728		-.810656	1	.246942	2	-.126620	1
5.6	.297169	2	-.224718	2	-.772083	1	.611040		-.831033	1	.251955	2	-.127567	1
5.8	.291241	2	-.230073	2	-.794088	1	.612120		-.851269	1	.256875	2	-.128487	1
6.0	.285636	2	-.235324	2	-.815908	1	.612991		-.871372	1	.261705	2	-.129381	1
6.2	.280326	2	-.240473	2	-.837551	1	.613669		-.891347	1	.266449	2	-.130252	1

Z = 95, A = 243

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$	
.4	.690591	1	-.573653	- 2	-.976291	- 3	.118769	- 1	-.353746	- 2	.218015	- 1	-.112663	1
.6	.295737	1	-.103929	- 1	-.177259	- 2	.648580		-.512361	- 2	.315053	- 1	-.509904	
.8	.183437	1	-.170023	- 1	-.290795	- 2	.107875	1	-.704451	- 2	.431910	- 1	-.352227	
1.0	.136295	1	-.256672	- 1	-.440419	- 2	.142375	1	-.931965	- 2	.569470	- 1	-.286084	
1.2	.111730	1	-.364145	- 1	-.627067	- 2	.171010	1	-.119522	- 1	.727601	- 1	-.253138	
1.4	.970495		-.492341	- 1	-.851065	- 2	.195036	1	-.149413	- 1	.905947	- 1	-.235263	
1.6	.874071		-.640995	- 1	-.111246	- 1	.215321	1	-.182859	- 1	.110412		-.225124	
1.8	.806212		-.809782	- 1	-.141120	- 1	.232552	1	-.219847	- 1	.132174		-.219277	
2.0	.755887		-.998361	- 1	-.174719	- 1	.247283	1	-.260369	- 1	.155847		-.215943	
2.2	.717005		-.120640		-.212034	- 1	.259959	1	-.304420	- 1	.181400		-.214136	
2.4	.685962		-.143358		-.253058	- 1	.270940	1	-.352000	- 1	.208803		-.213284	
2.6	.660510		-.167960		-.297786	- 1	.280516	1	-.403107	- 1	.238028		-.213039	
2.8	.639179		-.194417		-.346215	- 1	.288920	1	-.457747	- 1	.269051		-.213184	
3.0	.620973		-.222702		-.398344	- 1	.296339	1	-.515922	- 1	.301847		-.213579	
3.2	.605191		-.252791		-.454173	- 1	.302927	1	-.577638	- 1	.336393		-.214132	
3.4	.591332		-.284660		-.513706	- 1	.308807	1	-.642904	- 1	.372668		-.214784	
3.6	.579023		-.318284		-.576945	- 1	.314083	1	-.711727	- 1	.410651		-.215494	
3.8	.567986		-.353643		-.643896	- 1	.318837	1	-.784115	- 1	.450323		-.216233	
4.0	.558006		-.390715		-.714565	- 1	.323142	1	-.860078	- 1	.491663		-.216984	
4.2	.548915		-.429481		-.788959	- 1	.327054	1	-.939628	- 1	.534654		-.217734	
4.4	.540580		-.469921		-.867085	- 1	.330623	1	-.102277		.579277		-.218474	
4.6	.532896		-.512016		-.948951	- 1	.333891	1	-.110953		.625516		-.219198	
4.8	.525775		-.555748		-.103457		.336892	1	-.119990		.673354		-.219902	
5.0	.519147		-.601101		-.112394		.339658	1	-.129390		.722774		-.220585	
5.2	.512952		-.648057		-.121709		.342214	1	-.139155		.773761		-.221246	
5.4	.507141		-.696599		-.131401		.344582	1	-.149285		.826298		-.221883	
5.6	.501673		-.746712		-.141472		.346782	1	-.159782		.880372		-.222496	
5.8	.496511		-.798379		-.151924		.348830	1	-.170647		.935966		-.223087	
6.0	.491626		-.851586		-.162756		.350742	1	-.181881		.993067		-.223655	
6.2	.486991		-.906318		-.173971		.352530	1	-.193486		.105166	1	-.224201	

Z = 96, A = 245

p	F ₀		f ₁		g ₁	tanΔ ₁		f ₋₁		g ₋₁	tanΔ ₋₁		
.4	.222286	3	-.298933	1	-.930028	-.351707		-.194173	1	.652732	1	-.116449	1
.6	.152617	3	-.397646	1	-.123987	1	.649539 - 1	-.237716	1	.797271	1	-.756632	
.8	.118532	3	-.497789	1	-.155652	1	.230728	-.274673	1	.918512	1	-.728061	
1.0	.984672	2	-.598085	1	-.187630	1	.324878	-.307764	1	.102565	2	-.760560	
1.2	.852776	2	-.697039	1	-.219471	1	.387296	-.338396	1	.112347	2	-.804827	
1.4	.759325	2	-.793708	1	-.250881	1	.432389	-.367355	1	.121469	2	-.848611	
1.6	.689394	2	-.887623	1	-.281711	1	.466735	-.395101	1	.130091	2	-.888703	
1.8	.634853	2	-.978618	1	-.311899	1	.493828	-.421917	1	.138314	2	-.924562	
2.0	.590925	2	-.106669	2	-.341438	1	.515734	-.447987	1	.146204	2	-.956463	
2.2	.554632	2	-.115194	2	-.370343	1	.533770	-.473435	1	.153806	2	-.984899	
2.4	.524024	2	-.123449	2	-.398647	1	.548826	-.498351	1	.161156	2	-.101037	1
2.6	.497774	2	-.131449	2	-.426385	1	.561529	-.522802	1	.168277	2	-.103334	1
2.8	.474945	2	-.139207	2	-.453594	1	.572336	-.546839	1	.175191	2	-.105418	1
3.0	.454858	2	-.146740	2	-.480310	1	.581590	-.570504	1	.181913	2	-.107322	1
3.2	.437006	2	-.154059	2	-.506567	1	.589555	-.593830	1	.188458	2	-.109073	1
3.4	.421005	2	-.161178	2	-.532397	1	.596435	-.616845	1	.194837	2	-.110693	1
3.6	.406556	2	-.168107	2	-.557829	1	.602394	-.639574	1	.201059	2	-.112200	1
3.8	.393424	2	-.174857	2	-.582888	1	.607563	-.662037	1	.207135	2	-.113611	1
4.0	.381421	2	-.181438	2	-.607600	1	.612050	-.684253	1	.213070	2	-.114937	1
4.2	.370394	2	-.187858	2	-.631985	1	.615942	-.706236	1	.218874	2	-.116191	1
4.4	.360218	2	-.194125	2	-.656064	1	.619313	-.728002	1	.224551	2	-.117380	1
4.6	.350789	2	-.200247	2	-.679855	1	.622225	-.749563	1	.230107	2	-.118513	1
4.8	.342021	2	-.206231	2	-.703374	1	.624730	-.770931	1	.235548	2	-.119596	1
5.0	.333839	2	-.212082	2	-.726637	1	.626871	-.792115	1	.240878	2	-.120636	1
5.2	.326182	2	-.217806	2	-.749658	1	.628689	-.813126	1	.246102	2	-.121637	1
5.4	.318996	2	-.223409	2	-.772449	1	.630214	-.833973	1	.251223	2	-.122604	1
5.6	.312235	2	-.228896	2	-.795022	1	.631476	-.854662	1	.256246	2	-.123540	1
5.8	.305858	2	-.234270	2	-.817387	1	.632500	-.875202	1	.261174	2	-.124448	1
6.0	.299831	2	-.239537	2	-.839555	1	.633308	-.895600	1	.266010	2	-.125332	1
6.2	.294124	2	-.244701	2	-.861536	1	.633918	-.915860	1	.270758	2	-.126195	1

Z = 96, A = 245

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.731966	1 -.594774 - 2	-.102298 - 2	-.345580 - 2	-.368868 - 2	.224866 - 1	-.114992	1
.6	.312348	1 -.107361 - 1	-.185054 - 2	.637139	-.533314 - 2	.324380 - 1	-.514382	
.8	.193191	1 -.175212 - 1	-.302843 - 2	.106763	1 -.732206 - 2	.444068 - 1	-.353730	
1.0	.143228	1 -.264068 - 1	-.457896 - 2	.141277	1 -.967609 - 2	.584862 - 1	-.286509	
1.2	.117215	1 -.374190 - 1	-.651155 - 2	.169943	1 -.123985 - 1	.746638 - 1	-.253062	
1.4	.101677	1 -.505463 - 1	-.882934 - 2	.194015	1 -.154885 - 1	.929025 - 1	-.234926	
1.6	.914747	-.657609 - 1	-.115327 - 1	.214357	1 -.189446 - 1	.113162	-.224640	
1.8	.842958	-.830284 - 1	-.146207 - 1	.231652	1 -.227654 - 1	.135404	-.218707	
2.0	.789721	-.102314	-.180923 - 1	.246446	1 -.269501 - 1	.159593	-.215323	
2.2	.748588	-.123581	-.219465 - 1	.259186	1 -.314979 - 1	.185695	-.213488	
2.4	.715748	-.146799	-.261823 - 1	.270230	1 -.364086 - 1	.213681	-.212620	
2.6	.688821	-.171935	-.307991 - 1	.279865	1 -.416820 - 1	.243521	-.212368	
2.8	.666252	-.198960	-.357964 - 1	.288324	1 -.473184 - 1	.275191	-.212510	
3.0	.646987	-.227845	-.411740 - 1	.295795	1 -.533182 - 1	.308663	-.212906	
3.2	.630288	-.258565	-.469318 - 1	.302432	1 -.596817 - 1	.343916	-.213463	
3.4	.615622	-.291095	-.530701 - 1	.308358	1 -.664097 - 1	.380926	-.214120	
3.6	.602597	-.325410	-.595890 - 1	.313676	1 -.735028 - 1	.419671	-.214836	
3.8	.590917	-.361488	-.664889 - 1	.318470	1 -.809618 - 1	.460132	-.215582	
4.0	.580355	-.399308	-.737705 - 1	.322811	1 -.887878 - 1	.502288	-.216340	
4.2	.570734	-.438849	-.814342 - 1	.326757	1 -.969815 - 1	.546121	-.217096	
4.4	.561914	-.480090	-.894808 - 1	.330358	1 -.105544	.591611	-.217843	
4.6	.553782	-.523013	-.979111 - 1	.333656	1 -.114477	.638742	-.218574	
4.8	.546246	-.567598	-.106726	.336685	1 -.123780	.687494	-.219285	
5.0	.539232	-.613828	-.115926	.339477	1 -.133456	.737853	-.219975	
5.2	.532677	-.661685	-.125512	.342058	1 -.143504	.789801	-.220642	
5.4	.526528	-.711152	-.135486	.344449	1 -.153928	.843322	-.221285	
5.6	.520742	-.762212	-.145847	.346671	1 -.164727	.898401	-.221905	
5.8	.515281	-.814849	-.156598	.348740	1 -.175903	.955021	-.222502	
6.0	.510113	-.869048	-.167740	.350671	1 -.187457	.101317	1 -.223075	
6.2	.505209	-.924792	-.179272	.352477	1 -.199390	.107283	1 -.223627	

Z = 97, A = 249

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.238763	3	-.311330	1	-.979699		-.347531		-.202052	1	.671370	1	-.114631	1
.6	.163772	3	-.413112	1	-.130285	1	.753543 - 1		-.247251	1	.819672	1	-.733192	
.8	.127047	3	-.515982	1	-.163188	1	.244088		-.285532	1	.943804	1	-.701781	
1.0	.105405	3	-.618739	1	-.196331	1	.340114		-.319732	1	.105324	2	-.732228	
1.2	.911636	2	-.719910	1	-.229263	1	.403860		-.351325	1	.115295	2	-.774886	
1.4	.810654	2	-.818569	1	-.261696	1	.449954		-.381136	1	.124574	2	-.817360	
1.6	.735046	2	-.914269	1	-.293480	1	.485081		-.409654	1	.133331	2	-.856363	
1.8	.676057	2	-.100686	2	-.324563	1	.512799		-.437178	1	.141669	2	-.891304	
2.0	.628540	2	-.109637	2	-.354938	1	.535210		-.463904	1	.149660	2	-.922424	
2.2	.589283	2	-.118291	2	-.384630	1	.553656		-.489966	1	.157351	2	-.950189	
2.4	.556179	2	-.126661	2	-.413674	1	.569046		-.515460	1	.164778	2	-.975083	
2.6	.527795	2	-.134764	2	-.442110	1	.582021		-.540456	1	.171967	2	-.997544	
2.8	.503118	2	-.142616	2	-.469980	1	.593047		-.565010	1	.178941	2	-.101794	1
3.0	.481411	2	-.150232	2	-.497322	1	.602477		-.589167	1	.185717	2	-.103660	1
3.2	.462128	2	-.157625	2	-.524173	1	.610581		-.612962	1	.192308	2	-.105377	1
3.4	.444850	2	-.164811	2	-.550569	1	.617568		-.636425	1	.198727	2	-.106967	1
3.6	.429255	2	-.171799	2	-.576539	1	.623606		-.659583	1	.204985	2	-.108447	1
3.8	.415088	2	-.178602	2	-.602112	1	.628831		-.682457	1	.211091	2	-.109834	1
4.0	.402145	2	-.185230	2	-.627315	1	.633352		-.705067	1	.217053	2	-.111139	1
4.2	.390259	2	-.191691	2	-.652170	1	.637260		-.727430	1	.222878	2	-.112373	1
4.4	.379295	2	-.197995	2	-.676700	1	.640632		-.749560	1	.228572	2	-.113545	1
4.6	.369141	2	-.204148	2	-.700923	1	.643529		-.771472	1	.234143	2	-.114663	1
4.8	.359702	2	-.210159	2	-.724856	1	.646007		-.793179	1	.239595	2	-.115733	1
5.0	.350898	2	-.216032	2	-.748518	1	.648111		-.814690	1	.244933	2	-.116760	1
5.2	.342663	2	-.221776	2	-.771921	1	.649881		-.836016	1	.250162	2	-.117750	1
5.4	.334937	2	-.227394	2	-.795081	1	.651350		-.857167	1	.255286	2	-.118706	1
5.6	.327671	2	-.232893	2	-.818008	1	.652547		-.878150	1	.260309	2	-.119633	1
5.8	.320821	2	-.238277	2	-.840716	1	.653499		-.898975	1	.265235	2	-.120534	1
6.0	.314350	2	-.243550	2	-.863214	1	.654229		-.919647	1	.270066	2	-.121410	1
6.2	.308223	2	-.248717	2	-.885513	1	.654755		-.940174	1	.274807	2	-.122266	1

Z = 97, A = 249

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$	
.4	.775353	1	-.618126	- 2	-.107447	- 2	-.187656	- 1	-.385498	- 2	.232473	- 1	-.117382	1
.6	.329712	1	-.111171	- 1	-.193660	- 2	.625897		-.556386	- 2	.334773	- 1	-.518833	
.8	.203357	1	-.180994	- 1	-.316161	- 2	.105677	1	-.762801	- 2	.457651	- 1	-.355173	
1.0	.150438	1	-.272330	- 1	-.477235	- 2	.140211	1	-.100693	- 1	.602099	- 1	-.286866	
1.2	.122908	1	-.385434	- 1	-.677834	- 2	.168913	1	-.128913	- 1	.767994	- 1	-.252915	
1.4	.106473	1	-.520177	- 1	-.918260	- 2	.193036	1	-.160930	- 1	.954955	- 1	-.234514	
1.6	.956840		-.676263	- 1	-.119852	- 1	.213441	1	-.196728	- 1	.116256		-.224081	
1.8	.880938		-.853333	- 1	-.151853	- 1	.230803	1	-.236292	- 1	.139042		-.218063	
2.0	.824654		-.105102		-.187813	- 1	.245666	1	-.279609	- 1	.163814		-.214628	
2.2	.781168		-.126895		-.227722	- 1	.258474	1	-.326672	- 1	.190540		-.212764	
2.4	.746447		-.150678		-.271567	- 1	.269583	1	-.377476	- 1	.219187		-.211880	
2.6	.717977		-.176420		-.319342	- 1	.279280	1	-.432021	- 1	.249726		-.211620	
2.8	.694114		-.204088		-.371039	- 1	.287798	1	-.490305	- 1	.282130		-.211760	
3.0	.673743		-.233653		-.426655	- 1	.295325	1	-.552333	- 1	.316371		-.212157	
3.2	.656083		-.265090		-.486190	- 1	.302013	1	-.618107	- 1	.352426		-.212718	
3.4	.640574		-.298370		-.549642	- 1	.307986	1	-.687633	- 1	.390271		-.213380	
3.6	.626799		-.333471		-.617013	- 1	.313349	1	-.760917	- 1	.429884		-.214102	
3.8	.614446		-.370367		-.688308	- 1	.318184	1	-.837968	- 1	.471244		-.214854	
4.0	.603276		-.409037		-.763529	- 1	.322564	1	-.918792	- 1	.514328		-.215619	
4.2	.593102		-.449459		-.842683	- 1	.326546	1	-.100340		.559119		-.216382	
4.4	.583774		-.491612		-.925775	- 1	.330181	1	-.109180		.605597		-.217136	
4.6	.575174		-.535476		-.101281		.333510	1	-.118400		.653742		-.217874	
4.8	.567205		-.581032		-.110380		.336569	1	-.128002		.703538		-.218592	
5.0	.559788		-.628260		-.119875		.339388	1	-.137986		.754966		-.219289	
5.2	.552856		-.677143		-.129767		.341994	1	-.148354		.808009		-.219962	
5.4	.546355		-.727663		-.140057		.344410	1	-.159106		.862652		-.220612	
5.6	.540237		-.779803		-.150746		.346654	1	-.170244		.918876		-.221237	
5.8	.534464		-.833546		-.161835		.348745	1	-.181769		.976668		-.221840	
6.0	.529000		-.888874		-.173324		.350696	1	-.193682		.103601	1	-.222419	
6.2	.523816		-.945774		-.185215		.352521	1	-.205985		.109689	1	-.222976	

Z = 98, A = 249

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.257487	3	-.324857	1	-.103363	1	-.342982		-.210627	1	.691855	1	-.112782	1
.6	.176441	3	-.430006	1	-.137118	1	.861709 - 1		-.257625	1	.844309	1	-.709756	
.8	.136712	3	-.535877	1	-.171357	1	.257971		-.297344	1	.971644	1	-.675597	
1.0	.113274	3	-.641348	1	-.205754	1	.355965		-.332748	1	.108365	2	-.704057	
1.2	.978363	2	-.744974	1	-.239861	1	.421112		-.365381	1	.118547	2	-.745162	
1.4	.868812	2	-.845850	1	-.273391	1	.468267		-.396116	1	.128005	2	-.786371	
1.6	.786745	2	-.943547	1	-.306201	1	.504227		-.425468	1	.136915	2	-.824321	
1.8	.722698	2	-.103794	2	-.338241	1	.532612		-.453759	1	.145388	2	-.858373	
2.0	.671102	2	-.112908	2	-.369513	1	.555563		-.481195	1	.153496	2	-.888733	
2.2	.628475	2	-.121708	2	-.400047	1	.574451		-.507921	1	.161292	2	-.915844	
2.4	.592537	2	-.130212	2	-.429883	1	.590202		-.534038	1	.168813	2	-.940171	
2.6	.561730	2	-.138435	2	-.459066	1	.603472		-.559623	1	.176087	2	-.962135	
2.8	.534954	2	-.146397	2	-.487641	1	.614740		-.584736	1	.183136	2	-.982100	
3.0	.511411	2	-.154112	2	-.515652	1	.624364		-.609424	1	.189980	2	-.100037	1
3.2	.490504	2	-.161596	2	-.543139	1	.632622		-.633725	1	.196632	2	-.101719	1
3.4	.471781	2	-.168864	2	-.570138	1	.639731		-.657673	1	.203107	2	-.103279	1
3.6	.454888	2	-.175927	2	-.596684	1	.645862		-.681293	1	.209414	2	-.104732	1
3.8	.439548	2	-.182798	2	-.622807	1	.651154		-.704611	1	.215564	2	-.106094	1
4.0	.425540	2	-.189487	2	-.648534	1	.655720		-.727647	1	.221566	2	-.107377	1
4.2	.412683	2	-.196004	2	-.673891	1	.659655		-.750419	1	.227427	2	-.108591	1
4.4	.400828	2	-.202358	2	-.698902	1	.663035		-.772944	1	.233153	2	-.109744	1
4.6	.389854	2	-.208557	2	-.723586	1	.665928		-.795236	1	.238752	2	-.110845	1
4.8	.379657	2	-.214609	2	-.747963	1	.668387		-.817308	1	.244229	2	-.111900	1
5.0	.370151	2	-.220520	2	-.772050	1	.670460		-.839172	1	.249589	2	-.112913	1
5.2	.361262	2	-.226296	2	-.795863	1	.672189		-.860840	1	.254836	2	-.113890	1
5.4	.352927	2	-.231944	2	-.819417	1	.673607		-.882320	1	.259976	2	-.114834	1
5.6	.345091	2	-.237468	2	-.842724	1	.674746		-.903622	1	.265012	2	-.115750	1
5.8	.337708	2	-.242875	2	-.865798	1	.675632		-.924755	1	.269949	2	-.116640	1
6.0	.330735	2	-.248168	2	-.888649	1	.676289		-.945725	1	.274789	2	-.117507	1
6.2	.324136	2	-.253352	2	-.911289	1	.676737		-.966541	1	.279536	2	-.118353	1

Z = 98, A = 249

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.822537	1 -.639435 - 2	-.112294 - 2	-.340594 - 1	-.400973 - 2	.239230 - 1	-.119834	1
.6	.348580	1 -.114590 - 1	-.201667 - 2	.614849	-.577722 - 2	.343915 - 1	-.523255	
.8	.214396	1 -.186115 - 1	-.328437 - 2	.104617	1 - 790935 - 2	.469499 - 1	-.356554	
1.0	.158262	1 -.279574 - 1	-.494935 - 2	.139176	1 -.104292 - 1	.617025 - 1	-.287153	
1.2	.129083	1 -.395215 - 1	-.702114 - 2	.167920	1 -.133405 - 1	.786375 - 1	-.252695	
1.4	.111672	1 -.532894 - 1	-.950258 - 2	.192100	1 -.166420 - 1	.977159 - 1	-.234029	
1.6	.100246	1 -.692299 - 1	-.123936 - 1	.212572	1 -.203320 - 1	.118894	-.223447	
1.8	.922093	-.873056 - 1	-.156929 - 1	.230005	1 -.244087 - 1	.142131	-.217343	
2.0	.862500	-.107478	-.193989 - 1	.244942	1 -.288708 - 1	.167388	-.213858	
2.2	.816457	-.129709	-.235102 - 1	.257822	1 -.337173 - 1	.194630	-.211965	
2.4	.779694	-.153963	-.280254 - 1	.269000	1 -.389475 - 1	.223823	-.211065	
2.6	.749548	-.180206	-.329437 - 1	.278763	1 -.445612 - 1	.251937	-.210797	
2.8	.724279	-.208406	-.382641 - 1	.287343	1 -.505582 - 1	.287944	-.210934	
3.0	.702707	-.238533	-.439862 - 1	.294927	1 -.569387 - 1	.322816	-.211332	
3.2	.684005	-.270559	-.501097 - 1	.301669	1 -.637029 - 1	.359528	-.211896	
3.4	.667580	-.304457	-.566344 - 1	.307693	1 -.708513 - 1	.398056	-.212563	
3.6	.652991	-.340201	-.635605 - 1	.313102	1 -.783845 - 1	.438377	-.213291	
3.8	.639909	-.377768	-.708882 - 1	.317981	1 -.863030 - 1	.480469	-.214050	
4.0	.628079	-.417132	-.786176 - 1	.322401	1 -.946076 - 1	.524309	-.214821	
4.2	.617303	-.458273	-.867494 - 1	.326421	1 -.103299	.569879	-.215592	
4.4	.607425	-.501169	-.952839 - 1	.330091	1 -.112379	.617157	-.216352	
4.6	.598317	-.545799	-.104222	.333453	1 -.121847	.666125	-.217097	
4.8	.589878	-.592143	-.113564	.336543	1 -.131705	.716765	-.217822	
5.0	.582024	-.640182	-.123311	.339391	1 -.141953	.769057	-.218525	
5.2	.574684	-.689897	-.133463	.342025	1 -.152593	.822985	-.219205	
5.4	.567801	-.741269	-.144022	.344466	1 -.163627	.878532	-.219861	
5.6	.561324	-.794281	-.154988	.346734	1 -.175054	.935680	-.220493	
5.8	.555211	-.848916	-.166362	.348847	1 -.186876	.994413	-.221101	
6.0	.549427	-.905156	-.178146	.350820	1 -.199094	.105472	1 -.221686	
6.2	.543940	-.962986	-.190339	.352665	1 -.211710	.111657	1 -.222248	

Z = 99, A = 253

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₁		g ₁		tanΔ ₁	
.4	.277026	3	-.338476	1	-.108912	1	-.338070		-.219194	1	.711800	1	-.110923	1
.6	.189638	3	-.446937	1	-.144125	1	.973958 - 1		-.267978	1	.868246	1	-.686459	
.8	.146759	3	-.555715	1	-.179705	1	.272372		-.309115	1	.998625	1	-.649644	
1.0	.121435	3	-.663781	1	-.215351	1	.372420		-.345698	1	.111303	2	-.676204	
1.2	.104740	3	-.769723	1	-.250621	1	.439035		-.379343	1	.121680	2	-.715834	
1.4	.928840	2	-.872659	1	-.285231	1	.487301		-.410971	1	.131299	2	-.755851	
1.6	.839979	2	-.972188	1	-.319044	1	.524130		-.441125	1	.140345	2	-.792816	
1.8	.770612	2	-.106821	2	-.352017	1	.553208		-.470147	1	.148933	2	-.826042	
2.0	.714725	2	-.116079	2	-.384159	1	.576719		-.498257	1	.157141	2	-.855702	
2.2	.668557	2	-.125008	2	-.415505	1	.596060		-.525609	1	.165023	2	-.882215	
2.4	.629641	2	-.133626	2	-.446102	1	.612179		-.552313	1	.172618	2	-.906026	
2.6	.596291	2	-.141951	2	-.475999	1	.625745		-.578449	1	.179956	2	-.927545	
2.8	.567316	2	-.150002	2	-.505247	1	.637250		-.604082	1	.187062	2	-.947122	
3.0	.541848	2	-.157797	2	-.533893	1	.647063		-.629263	1	.193954	2	-.965053	
3.2	.519242	2	-.165353	2	-.561980	1	.655467		-.654032	1	.200648	2	-.981582	
3.4	.499005	2	-.172682	2	-.589548	1	.662685		-.678424	1	.207158	2	-.996913	
3.6	.480756	2	-.179801	2	-.616633	1	.668894		-.702469	1	.213496	2	-.101122	1
3.8	.464193	2	-.186720	2	-.643269	1	.674238		-.726192	1	.219672	2	-.102463	1
4.0	.449074	2	-.193451	2	-.669485	1	.678832		-.749616	1	.225694	2	-.103728	1
4.2	.435204	2	-.200004	2	-.695308	1	.682774		-.772759	1	.231571	2	-.104926	1
4.4	.422422	2	-.206389	2	-.720763	1	.686144		-.795640	1	.237310	2	-.106065	1
4.6	.410595	2	-.212614	2	-.745872	1	.689009		-.818274	1	.242918	2	-.107153	1
4.8	.399611	2	-.218687	2	-.770656	1	.691428		-.840674	1	.248400	2	-.108196	1
5.0	.389375	2	-.224615	2	-.795132	1	.693448		-.862854	1	.253762	2	-.109200	1
5.2	.379809	2	-.230405	2	-.819319	1	.695112		-.884825	1	.259010	2	-.110167	1
5.4	.370842	2	-.236062	2	-.843230	1	.696456		-.906598	1	.264146	2	-.111104	1
5.6	.362416	2	-.241593	2	-.866882	1	.697512		-.928182	1	.269177	2	-.112012	1
5.8	.354480	2	-.247003	2	-.890286	1	.698307		-.949587	1	.274106	2	-.112896	1
6.0	.346989	2	-.252297	2	-.913455	1	.698866		-.970819	1	.278936	2	-.113757	1
6.2	.339902	2	-.257478	2	-.936399	1	.699210		-.991888	1	.283671	2	-.114599	1

Z = 99, A = 253

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$	
.4	.871449	1	-.664546	- 2	-.117925	- 2	-.493438	- 1	-.418959	- 2	.247319	- 1	-.122352	1
.6	.368063	1	-.118666	- 1	-.211022	- 2	.603991		-.602615	- 2	.354945	- 1	-.527648	
.8	.225755	1	-.192275	- 1	-.342851	- 2	.103582	1	-.823872	- 2	.483890	- 1	-.357873	
1.0	.166291	1	-.288352	- 1	-.515798	- 2	.138173	1	-.108518	- 1	.635259	- 1	-.287370	
1.2	.135404	1	-.407135	- 1	-.730824	- 2	.166963	1	-.138691	- 1	.808935	- 1	-.252402	
1.4	.116984	1	-.548466	- 1	-.988198	- 2	.191205	1	-.172896	- 1	.100452		-.233470	
1.6	.104899	1	-.712013	- 1	-.128789	- 1	.211749	1	-.211112	- 1	.122155		-.222739	
1.8	.964001		-.897383	- 1	-.162974	- 1	.229259	1	-.253319	- 1	.145961		-.216548	
2.0	.900987		-.110417		-.201358	- 1	.244273	1	-.299501	- 1	.171830		-.213012	
2.2	.852301		-.133199		-.243924	- 1	.257229	1	-.349648	- 1	.199723		-.211089	
2.4	.813427		-.158045		-.290656	- 1	.268480	1	-.403751	- 1	.229607		-.210172	
2.6	.781549		-.184921		-.341543	- 1	.278312	1	-.461805	- 1	.261451		-.209896	
2.8	.754826		-.213794		-.396575	- 1	.286957	1	-.523809	- 1	.295223		-.210031	
3.0	.732013		-.244632		-.455746	- 1	.294602	1	-.589762	- 1	.330897		-.210431	
3.2	.712235		-.277406		-.519052	- 1	.301400	1	-.659666	- 1	.368446		-.210998	
3.4	.694863		-.312087		-.586490	- 1	.307477	1	-.733525	- 1	.407844		-.211670	
3.6	.679434		-.348650		-.658059	- 1	.312935	1	-.811343	- 1	.449068		-.212403	
3.8	.665598		-.387068		-.733760	- 1	.317860	1	-.893125	- 1	.492095		-.213168	
4.0	.653086		-.427318		-.813596	- 1	.322323	1	-.978879	- 1	.536901		-.213946	
4.2	.641689		-.469376		-.897570	- 1	.326383	1	-.106861		.583467		-.214724	
4.4	.631242		-.513221		-.985686	- 1	.330090	1	-.116233		.631771		-.215491	
4.6	.621611		-.558830		-.107795		.333487	1	-.126005		.681794		-.216243	
4.8	.612687		-.606182		-.117437		.336609	1	-.136177		.733516		-.216975	
5.0	.604381		-.655259		-.127494		.339488	1	-.146750		.786918		-.217684	
5.2	.596620		-.706039		-.137969		.342149	1	-.157726		.841983		-.218370	
5.4	.589342		-.758504		-.148861		.344617	1	-.169105		.898691		-.219033	
5.6	.582494		-.812637		-.160171		.346911	1	-.180889		.957027		-.219670	
5.8	.576032		-.868418		-.171900		.349047	1	-.193078		.101697	1	-.220285	
6.0	.569917		-.925830		-.184049		.351042	1	-.205674		.107851	1	-.220875	
6.2	.564117		-.984856		-.196620		.352909	1	-.218677		.114163	1	-.221443	

Z = 100, A = 254

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.299037	3	-.353201	1	-.114902	1	-.332763		-.228426	1	.733417	1	-.109034	1
.6	.204494	3	-.465251	1	-.151682	1	.109072		-.279131	1	.894198	1	-.663151	
.8	.158060	3	-.577181	1	-.188697	1	.287351		-.321792	1	.102789	2	-.623763	
1.0	.130608	3	-.688063	1	-.225677	1	.389562		-.359639	1	.114492	2	-.648486	
1.2	.112493	3	-.796522	1	-.262186	1	.457731		-.394369	1	.125083	2	-.686695	
1.4	.996190	2	-.901704	1	-.297945	1	.507178		-.426950	1	.134880	2	-.725566	
1.6	.899660	2	-.100324	2	-.332823	1	.544934		-.457961	1	.144076	2	-.761582	
1.8	.824288	2	-.110105	2	-.366785	1	.574754		-.487762	1	.152794	2	-.794011	
2.0	.763562	2	-.119522	2	-.399847	1	.598864		-.516591	1	.161115	2	-.822996	
2.2	.713402	2	-.128594	2	-.432052	1	.618692		-.544611	1	.169095	2	-.848930	
2.4	.671131	2	-.137339	2	-.463453	1	.635206		-.571938	1	.176777	2	-.872242	
2.6	.634917	2	-.145779	2	-.494105	1	.649093		-.598660	1	.184191	2	-.893327	
2.8	.603465	2	-.153933	2	-.524063	1	.660856		-.624846	1	.191364	2	-.912525	
3.0	.575832	2	-.161820	2	-.553378	1	.670874		-.650549	1	.198316	2	-.930122	
3.2	.551315	2	-.169457	2	-.582098	1	.679439		-.675815	1	.205063	2	-.946358	
3.4	.529378	2	-.176861	2	-.610265	1	.686779		-.700679	1	.211619	2	-.961429	
3.6	.509606	2	-.184045	2	-.637918	1	.693077		-.725175	1	.217997	2	-.975501	
3.8	.491668	2	-.191023	2	-.665094	1	.698481		-.749328	1	.224208	2	-.988711	
4.0	.475304	2	-.197806	2	-.691825	1	.703111		-.773163	1	.230261	2	-.100117	1
4.2	.460298	2	-.204406	2	-.718138	1	.707066		-.796700	1	.236164	2	-.101299	1
4.4	.446477	2	-.210832	2	-.744061	1	.710430		-.819959	1	.241925	2	-.102423	1
4.6	.433694	2	-.217093	2	-.769617	1	.713273		-.842955	1	.247552	2	-.103498	1
4.8	.421827	2	-.223197	2	-.794828	1	.715654		-.865704	1	.253049	2	-.104529	1
5.0	.410775	2	-.229153	2	-.819714	1	.717624		-.888219	1	.258424	2	-.105521	1
5.2	.400451	2	-.234966	2	-.844293	1	.719226		-.910512	1	.263680	2	-.106478	1
5.4	.390778	2	-.240643	2	-.868582	1	.720497		-.932596	1	.268823	2	-.107406	1
5.6	.381692	2	-.246190	2	-.892595	1	.721472		-.954479	1	.273858	2	-.108306	1
5.8	.373139	2	-.251613	2	-.916346	1	.722177		-.976172	1	.278788	2	-.109182	1
6.0	.365067	2	-.256917	2	-.939849	1	.722639		-.997683	1	.283617	2	-.110036	1
6.2	.357436	2	-.262106	2	-.963115	1	.722879		-.101902	2	.288350	2	-.110871	1

Z = 100, A = 254

p	$\overline{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$	
.4	.924351	1	-.688310	- 2	-.123384	- 2	-.646256	- 1	-.436223	- 2	.254815	- 1	-.124939	1
.6	.389111	1	-.122476	- 1	-.220010	- 2	.593318		-.626398	- 2	.365100	- 1	-.532010	
.8	.238014	1	-.197979	- 1	-.356599	- 2	.102572	1	-.855205	- 2	.497058	- 1	-.359130	
1.0	.174948	1	-.296419	- 1	-.535589	- 2	.137200	1	-.112523	- 1	.651854	- 1	-.287517	
1.2	.142215	1	-.418025	- 1	-.757939	- 2	.166042	1	-.143686	- 1	.829378	- 1	-.252036	
1.4	.122704	1	-.562623	- 1	-.102390	- 1	.190352	1	-.178999	- 1	.102922		-.232836	
1.6	.109907	1	-.729864	- 1	-.133342	- 1	.210972	1	-.218436	- 1	.125090		-.221954	
1.8	.100909	1	-.919337	- 1	-.168631	- 1	.228563	1	-.261977	- 1	.149399		-.215677	
2.0	.942379		-.113062		-.208238	- 1	.243659	1	-.309604	- 1	.175806		-.212089	
2.2	.890838		-.136331		-.252142	- 1	.256695	1	-.361304	- 1	.204273		-.210136	
2.4	.849685		-.161701		-.300326	- 1	.268023	1	-.417066	- 1	.234764		-.209203	
2.6	.815936		-.189135		-.352777	- 1	.277927	1	-.476884	- 1	.267248		-.208919	
2.8	.787645		-.218600		-.409483	- 1	.286640	1	-.540755	- 1	.301691		-.209051	
3.0	.763491		-.250062		-.470437	- 1	.294349	1	-.608677	- 1	.338067		-.209451	
3.2	.742551		-.283492		-.535631	- 1	.301207	1	-.680651	- 1	.376346		-.210022	
3.4	.724158		-.318859		-.605063	- 1	.307340	1	-.756679	- 1	.416504		-.210698	
3.6	.707821		-.356137		-.678731	- 1	.312850	1	-.836764	- 1	.458514		-.211437	
3.8	.693171		-.395300		-.756633	- 1	.317823	1	-.920912	- 1	.502354		-.212209	
4.0	.679924		-.436322		-.838772	- 1	.322330	1	-.100913		.548001		-.212994	
4.2	.667858		-.479180		-.925149	- 1	.326432	1	-.110142		.595432		-.213778	
4.4	.656797		-.523850		-.101577		.330178	1	-.119779		.644626		-.214552	
4.6	.646600		-.570309		-.111063		.333611	1	-.129825		.695562		-.215311	
4.8	.637153		-.618538		-.120975		.336767	1	-.140281		.748221		-.216049	
5.0	.628361		-.668514		-.131312		.339678	1	-.151147		.802584		-.216765	
5.2	.620146		-.720218		-.142076		.342369	1	-.162425		.858631		-.217458	
5.4	.612442		-.773630		-.153266		.344865	1	-.174116		.916343		-.218126	
5.6	.605194		-.828731		-.164885		.347185	1	-.186220		.975704		-.218770	
5.8	.598355		-.885502		-.176931		.349346	1	-.198738		.103670	1	-.219390	
6.0	.591885		-.943926		-.189407		.351365	1	-.211673		.109930	1	-.219986	
6.2	.585748		-.100398	1	-.202314		.353253	1	-.225023		.116350	1	-.220560	

Z = 101, A = 254

p	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.323377	3	-.368827	1	-.121290	1	-.327052		-.238177	1	.756169	1	-.107119	1
.6	.220905	3	-.484663	1	-.159727	1	.121213		-.290904	1	.921501	1	-.639853	
.8	.170527	3	-.599905	1	-.198253	1	.302934		-.335164	1	.105866	2	-.597970	
1.0	.140714	3	-.713737	1	-.236631	1	.407423		-.374333	1	.117844	2	-.620922	
1.2	.121023	3	-.824825	1	-.274433	1	.477239		-.410194	1	.128658	2	-.657769	
1.4	.107020	3	-.932348	1	-.311387	1	.527939		-.443767	1	.138641	2	-.695544	
1.6	.965156	2	-.103596	2	-.347371	1	.566681		-.475666	1	.147994	2	-.730656	
1.8	.883123	2	-.113563	2	-.382358	1	.597290		-.506274	1	.156847	2	-.762327	
2.0	.817030	2	-.123146	2	-.416371	1	.622038		-.535843	1	.165284	2	-.790669	
2.2	.762445	2	-.132365	2	-.449463	1	.642384		-.564549	1	.173367	2	-.816052	
2.4	.716457	2	-.141243	2	-.481691	1	.659319		-.592517	1	.181138	2	-.838890	
2.6	.677072	2	-.149801	2	-.513118	1	.673547		-.619840	1	.188632	2	-.859563	
2.8	.642880	2	-.158061	2	-.543804	1	.685584		-.646591	1	.195875	2	-.878401	
3.0	.612853	2	-.166043	2	-.573804	1	.695819		-.672829	1	.202889	2	-.895683	
3.2	.586225	2	-.173765	2	-.603170	1	.704553		-.698602	1	.209690	2	-.911639	
3.4	.562411	2	-.181245	2	-.631949	1	.712022		-.723948	1	.216294	2	-.926464	
3.6	.540958	2	-.188498	2	-.660182	1	.718413		-.748902	1	.222715	2	-.940316	
3.8	.521506	2	-.195537	2	-.687907	1	.723879		-.773492	1	.228963	2	-.953329	
4.0	.503768	2	-.202375	2	-.715160	1	.728544		-.797745	1	.235048	2	-.965616	
4.2	.487512	2	-.209023	2	-.741971	1	.732512		-.821682	1	.240979	2	-.977270	
4.4	.472546	2	-.215492	2	-.768369	1	.735868		-.845324	1	.246764	2	-.988372	
4.6	.458712	2	-.221791	2	-.794378	1	.738686		-.868687	1	.252411	2	-.998990	
4.8	.445876	2	-.227928	2	-.820022	1	.741025		-.891788	1	.257925	2	-.100918	1
5.0	.433928	2	-.233912	2	-.845322	1	.742939		-.914642	1	.263313	2	-.101899	1
5.2	.422770	2	-.239750	2	-.870298	1	.744473		-.937261	1	.268580	2	-.102847	1
5.4	.412322	2	-.245449	2	-.894966	1	.745666		-.959657	1	.273731	2	-.103766	1
5.6	.402513	2	-.251014	2	-.919344	1	.746552		-.981842	1	.278771	2	-.104658	1
5.8	.393282	2	-.256451	2	-.943445	1	.747160		-.100383	2	.283704	2	-.105526	1
6.0	.384576	2	-.261766	2	-.967285	1	.747518		-.102562	2	.288534	2	-.106373	1
6.2	.376349	2	-.266964	2	-.990874	1	.747646		-.104723	2	.293265	2	-.107202	1

Z = 101, A = 254

p	$\bar{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$	
.4	.980939	1	-.712167	- 2	-.128940	- 2	-.799113	- 1	-.453666	- 2	.262258	- 1	-.127598	1
.6	.411582	1	-.126279	- 1	-.229109	- 2	.582825		-.650373	- 2	.375152	- 1	-.536340	
.8	.251080	1	-.203645	- 1	-.370466	- 2	.101587	1	-.886722	- 2	.510057	- 1	-.360323	
1.0	.184161	1	-.304403	- 1	-.555491	- 2	.136257	1	-.116543	- 1	.668198	- 1	-.287593	
1.2	.149455	1	-.428774	- 1	-.785143	- 2	.165156	1	-.148693	- 1	.849471	- 1	-.251596	
1.4	.128778	1	-.576565	- 1	-.105965	- 1	.189538	1	-.185106	- 1	.105345		-.232126	
1.6	.115221	1	-.747410	- 1	-.137894	- 1	.210240	1	-.225757	- 1	.127965		-.221094	
1.8	.105690	1	-.940880	- 1	-.174279	- 1	.227917	1	-.270623	- 1	.152762		-.214728	
2.0	.986240		-.115654		-.215097	- 1	.243100	1	-.319682	- 1	.179691		-.211089	
2.2	.931651		-.139396		-.260326	- 1	.256220	1	-.372919	- 1	.208714		-.209106	
2.4	.888064		-.165274		-.309946	- 1	.267628	1	-.430322	- 1	.239794		-.208156	
2.6	.852318		-.193249		-.363943	- 1	.277609	1	-.491884	- 1	.272896		-.207864	
2.8	.822352		-.223287		-.422302	- 1	.286394	1	-.557600	- 1	.307989		-.207993	
3.0	.796768		-.255354		-.485013	- 1	.294170	1	-.627465	- 1	.345041		-.208394	
3.2	.774587		-.289418		-.552069	- 1	.301091	1	-.701480	- 1	.384026		-.208968	
3.4	.755104		-.325449		-.623464	- 1	.307281	1	-.779645	- 1	.424916		-.209649	
3.6	.737799		-.363418		-.699195	- 1	.312845	1	-.861962	- 1	.467685		-.210394	
3.8	.722282		-.403300		-.779261	- 1	.317869	1	-.948436	- 1	.512309		-.211172	
4.0	.708250		-.445066		-.863661	- 1	.322423	1	-.103907		.558764		-.211963	
4.2	.695469		-.488694		-.952396	- 1	.326569	1	-.113387		.607028		-.212754	
4.4	.683754		-.534159		-.104547		.330355	1	-.123285		.657078		-.213535	
4.6	.672955		-.581438		-.114288		.333827	1	-.133600		.708893		-.214300	
4.8	.662949		-.630509		-.124464		.337018	1	-.144334		.762452		-.215045	
5.0	.653639		-.681351		-.135075		.339962	1	-.155487		.817737		-.215768	
5.2	.644939		-.733942		-.146121		.342685	1	-.167061		.874726		-.216467	
5.4	.636782		-.788263		-.157603		.345211	1	-.179056		.933402		-.217141	
5.6	.629109		-.844294		-.169523		.347558	1	-.191474		.993746		-.217791	
5.8	.621868		-.902016		-.181879		.349746	1	-.204314		.105574	1	-.218417	
6.0	.615018		-.961410		-.194674		.351789	1	-.217579		.111936	1	-.219019	
6.2	.608522		-.102246	1	-.207907		.353701	1	-.231268		.118460	1	-.219597	

Z = 102, A = 256

P	F ₀		f ₁		g ₁		tanΔ ₁		f ₋₁		g ₋₁		tanΔ ₋₁	
.4	.349444	3	-.384896	1	-.127958	1	-.320935		-.248132	1	.779015	1	-.105187	1
.6	.238453	3	-.504562	1	-.168100	1	.133830		-.302911	1	.948877	1	-.616616	
.8	.183834	3	-.623117	1	-.208169	1	.319138		-.348785	1	.108947	2	-.572315	
1.0	.151479	3	-.739869	1	-.247966	1	.426027		-.389282	1	.121193	2	-.593568	
1.2	.130091	3	-.853533	1	-.287073	1	.497582		-.426272	1	.132222	2	-.629119	
1.4	.114871	3	-.963326	1	-.325227	1	.549609		-.460829	1	.142381	2	-.665859	
1.6	.103450	3	-.106894	2	-.362315	1	.589393		-.493603	1	.151882	2	-.700124	
1.8	.945290	2	-.117037	2	-.398320	1	.620834		-.525002	1	.160859	2	-.731088	
2.0	.873419	2	-.126775	2	-.433275	1	.646252		-.555295	1	.169402	2	-.758834	
2.2	.814073	2	-.136132	2	-.467239	1	.667139		-.584668	1	.177575	2	-.783711	
2.4	.764089	2	-.145130	2	-.500280	1	.684511		-.613255	1	.185425	2	-.806115	
2.6	.721297	2	-.153795	2	-.532465	1	.699089		-.641156	1	.192987	2	-.826414	
2.8	.684164	2	-.162149	2	-.563860	1	.711405		-.668451	1	.200288	2	-.844928	
3.0	.651570	2	-.170214	2	-.594525	1	.721858		-.695200	1	.207351	2	-.861928	
3.2	.622679	2	-.178010	2	-.624517	1	.730758		-.721455	1	.214195	2	-.877638	
3.4	.596856	2	-.185554	2	-.653885	1	.738348		-.747258	1	.220836	2	-.892247	
3.6	.573604	2	-.192863	2	-.682675	1	.744823		-.772646	1	.227287	2	-.905909	
3.8	.552533	2	-.199951	2	-.710927	1	.750340		-.797649	1	.233560	2	-.918756	
4.0	.533330	2	-.206831	2	-.738679	1	.755027		-.822295	1	.239665	2	-.930895	
4.2	.515740	2	-.213515	2	-.765964	1	.758992		-.846606	1	.245612	2	-.942419	
4.4	.499554	2	-.220014	2	-.792812	1	.762324		-.870605	1	.251410	2	-.953404	
4.6	.484600	2	-.226339	2	-.819249	1	.765097		-.894311	1	.257064	2	-.963919	
4.8	.470733	2	-.232497	2	-.845301	1	.767376		-.917739	1	.262584	2	-.974018	
5.0	.457830	2	-.238498	2	-.870991	1	.769214		-.940906	1	.267973	2	-.983750	
5.2	.445788	2	-.244349	2	-.896338	1	.770660		-.963826	1	.273240	2	-.993157	
5.4	.434517	2	-.250057	2	-.921362	1	.771753		-.986511	1	.278387	2	-.100228	1
5.6	.423941	2	-.255627	2	-.946079	1	.772529		-.100897	2	.283421	2	-.101114	1
5.8	.413992	2	-.261068	2	-.970506	1	.773018		-.103122	2	.288346	2	-.101977	1
6.0	.404614	2	-.266383	2	-.994656	1	.773248		-.105327	2	.293165	2	-.102820	1
6.2	.395755	2	-.271577	2	-.101854	2	.773243		-.107512	2	.297884	2	-.103644	1

Z = 102, A = 256

p	$\overline{F}$		f_2		g_2		$\tan\Delta_2$		f_{-2}		g_{-2}		$\tan\Delta_{-2}$	
.4	.104035	2	-.738539	- 2	-.135060	- 2	-.952074	- 1	-.472840	- 2	.270532	- 1	-.130333	1
.6	.435103	1	-.130502	- 1	-.239150	- 2	.572508		-.676763	- 2	.386366	- 1	-.540638	
.8	.264719	1	-.209962	- 1	-.385789	- 2	.100625	1	-.921458	- 2	.524604	- 1	-.361452	
1.0	.193756	1	-.313333	- 1	-.577511	- 2	.135343	1	-.120979	- 1	.686536	- 1	-.287598	
1.2	.156981	1	-.440824	- 1	-.815275	- 2	.164305	1	-.154222	- 1	.872062	- 1	-.251082	
1.4	.135082	1	-.592227	- 1	-.109929	- 1	.188764	1	-.191856	- 1	.108074		-.231340	
1.6	.120728	1	-.767154	- 1	-.142945	- 1	.209553	1	-.233855	- 1	.131208		-.220156	
1.8	.110639	1	-.965157	- 1	-.180550	- 1	.227321	1	-.280191	- 1	.156560		-.213703	
2.0	.103160	1	-.118578		-.222719	- 1	.242595	1	-.330842	- 1	.184085		-.210012	
2.2	.973814		-.142858		-.269427	- 1	.255803	1	-.385791	- 1	.213741		-.207998	
2.4	.927678		-.169314		-.320652	- 1	.267297	1	-.445022	- 1	.245491		-.207031	
2.6	.889841		-.197906		-.376376	- 1	.277358	1	-.508528	- 1	.279299		-.206731	
2.8	.858122		-.228597		-.436583	- 1	.286218	1	-.576300	- 1	.315132		-.206857	
3.0	.831040		-.261353		-.501262	- 1	.294065	1	-.648334	- 1	.352959		-.207259	
3.2	.807560		-.296140		-.570403	- 1	.301051	1	-.724628	- 1	.392750		-.207836	
3.4	.786936		-.332928		-.644000	- 1	.307302	1	-.805182	- 1	.434477		-.208521	
3.6	.768619		-.371687		-.722048	- 1	.312923	1	-.889996	- 1	.478114		-.209272	
3.8	.752193		-.412389		-.804543	- 1	.317999	1	-.979074	- 1	.523635		-.210056	
4.0	.737340		-.455007		-.891484	- 1	.322603	1	-.107242		.571016		-.210854	
4.2	.723813		-.499516		-.982871	- 1	.326794	1	-.117004		.620233		-.211651	
4.4	.711413		-.545891		-.107871		.330624	1	-.127193		.671263		-.212439	
4.6	.699983		-.594108		-.117899		.334135	1	-.137811		.724085		-.213211	
4.8	.689394		-.644144		-.128373		.337364	1	-.148857		.778678		-.213963	
5.0	.679542		-.695977		-.139292		.340343	1	-.160333		.835019		-.214692	
5.2	.670336		-.749586		-.150657		.343099	1	-.172240		.893091		-.215397	
5.4	.661705		-.804949		-.162469		.345655	1	-.184578		.952872		-.216078	
5.6	.653587		-.862047		-.174728		.348032	1	-.197348		.101434	1	-.216733	
5.8	.645927		-.920859		-.187435		.350247	1	-.210551		.107749	1	-.217365	
6.0	.638681		-.981367		-.200590		.352315	1	-.224188		.114229	1	-.217972	
6.2	.631810		-.104355	1	-.214194		.354252	1	-.238260		.120872	1	-.218556	

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POSITRONS

Z = - 8, A = 17

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.601230	.838399 - 1	-.149262 - 2	.636882 - 1	.996858 - 2	.430560	.122690	2
.6	.702210	.190734	-.335016 - 2	.425619 - 1	.156972 - 1	.685048	.183441	2
.8	.752137	.325715	-.562129 - 2	.319070 - 1	.209275 - 1	.925680	.244062	2
1.0	.780177	.478962	-.809485 - 2	.254387 - 1	.256747 - 1	.115391	.304019	2
1.2	.797310	.643694	-.106243 - 1	.210763 - 1	.299895 - 1	.137223	.363037	2
1.4	.808437	.815580	-.131156 - 1	.179275 - 1	.339245 - 1	.158300	.420973	2
1.6	.816008	.991941	-.155103 - 1	.155441 - 1	.375238 - 1	.178809	.477759	2
1.8	.821354	.117113	1 -.177722 - 1	.136756 - 1	.408212 - 1	.198892	.533369	2
2.0	.825244	.135215	1 -.198789 - 1	.121706 - 1	.438419 - 1	.218654	.587801	2
2.2	.828144	.153434	1 -.218163 - 1	.109319 - 1	.466045 - 1	.238170	.641070	2
2.4	.830352	.171731	1 -.235753 - 1	.989443 - 2	.491229 - 1	.257497	.693196	2
2.6	.832061	.190080	1 -.251500 - 1	.901268 - 2	.514072 - 1	.276677	.744207	2
2.8	.833405	.208463	1 -.265365 - 1	.825397 - 2	.534651 - 1	.295739	.794131	2
3.0	.834474	.226870	1 -.277322 - 1	.759421 - 2	.553025 - 1	.314708	.842998	2
3.2	.835333	.245294	1 -.287352 - 1	.701519 - 2	.569239 - 1	.333602	.890840	2
3.4	.836030	.263728	1 -.295444 - 1	.650294 - 2	.583328 - 1	.352435	.937686	2
3.6	.836600	.282170	1 -.301589 - 1	.604656 - 2	.595318 - 1	.371217	.983568	2
3.8	.837069	.300617	1 -.305781 - 1	.563737 - 2	.605232 - 1	.389958	.102851	3
4.0	.837456	.319068	1 -.308014 - 1	.526841 - 2	.613088 - 1	.408665	.107255	3
4.2	.837778	.337521	1 -.308287 - 1	.493405 - 2	.618898 - 1	.427343	.111571	3
4.4	.838045	.355976	1 -.306596 - 1	.462965 - 2	.622674 - 1	.445998	.115802	3
4.6	.838269	.374434	1 -.302940 - 1	.435135 - 2	.624426 - 1	.464632	.119951	3
4.8	.838455	.392892	1 -.297317 - 1	.409596 - 2	.624161 - 1	.483250	.124019	3
5.0	.838611	.411352	1 -.289727 - 1	.386076 - 2	.621885 - 1	.501854	.128010	3
5.2	.838740	.429813	1 -.280168 - 1	.364345 - 2	.617603 - 1	.520446	.131926	3
5.4	.838848	.448276	1 -.268640 - 1	.344209 - 2	.611321 - 1	.539028	.135768	3
5.6	.838937	.466740	1 -.255143 - 1	.325499 - 2	.603040 - 1	.557603	.139541	3
5.8	.839011	.485206	1 -.239675 - 1	.308068 - 2	.592765 - 1	.576171	.143244	3
6.0	.839071	.503673	1 -.222235 - 1	.291792 - 2	.580497 - 1	.594733	.146881	3
6.2	.839119	.522143	1 -.202825 - 1	.276561 - 2	.566239 - 1	.613292	.150454	3

Z = - 8, A = 17

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.169030 - 1	.895153 - 4	-.896294 - 6	-.691420	1	.612848 - 5	.463507 - 3	.709056 - 1
.6	.195266 - 1	.305119 - 3	-.301142 - 5	-.976919	1	.143882 - 4	.110011 - 2	.534458 - 1
.8	.208394 - 1	.694530 - 3	-.672722 - 5	-.121012	2	.255115 - 4	.197837 - 2	.460095 - 1
1.0	.215832 - 1	.127654 - 2	-.120909 - 4	-.139682	2	.390587 - 4	.308014 - 2	.423122 - 1
1.2	.220412 - 1	.205871 - 2	-.190108 - 4	-.154544	2	.546722 - 4	.439363 - 2	.403178 - 1
1.4	.223406 - 1	.304326 - 2	-.273288 - 4	-.166414	2	.720598 - 4	.591173 - 2	.391917 - 1
1.6	.225458 - 1	.423023 - 2	-.368587 - 4	-.175975	2	.909721 - 4	.763039 - 2	.385423 - 1
1.8	.226918 - 1	.561889 - 2	-.474043 - 4	-.183759	2	.111186 - 3	.954729 - 2	.381685 - 1
2.0	.227988 - 1	.720834 - 2	-.587670 - 4	-.190169	2	.132492 - 3	.116612 - 1	.379603 - 1
2.2	.228792 - 1	.899774 - 2	-.707484 - 4	-.195509	2	.154691 - 3	.139713 - 1	.378544 - 1
2.4	.229410 - 1	.109864 - 1	-.831517 - 4	-.200006	2	.177588 - 3	.164773 - 1	.378130 - 1
2.6	.229894 - 1	.131737 - 1	-.957812 - 4	-.203831	2	.200991 - 3	.191789 - 1	.378125 - 1
2.8	.230278 - 1	.155592 - 1	-.108443 - 3	-.207115	2	.224709 - 3	.220762 - 1	.378382 - 1
3.0	.230588 - 1	.181425 - 1	-.120943 - 3	-.209960	2	.248553 - 3	.251689 - 1	.378805 - 1
3.2	.230840 - 1	.209233 - 1	-.133091 - 3	-.212443	2	.272334 - 3	.284572 - 1	.379331 - 1
3.4	.231048 - 1	.239014 - 1	-.144693 - 3	-.214627	2	.295864 - 3	.319411 - 1	.379919 - 1
3.6	.231221 - 1	.270766 - 1	-.155559 - 3	-.216560	2	.318954 - 3	.356205 - 1	.380540 - 1
3.8	.231365 - 1	.304487 - 1	-.165499 - 3	-.218280	2	.341416 - 3	.394956 - 1	.381175 - 1
4.0	.231487 - 1	.340175 - 1	-.174322 - 3	-.219821	2	.363061 - 3	.435663 - 1	.381812 - 1
4.2	.231591 - 1	.377830 - 1	-.181838 - 3	-.221208	2	.383701 - 3	.478326 - 1	.382442 - 1
4.4	.231679 - 1	.417451 - 1	-.187858 - 3	-.222462	2	.403148 - 3	.522947 - 1	.383059 - 1
4.6	.231755 - 1	.459037 - 1	-.192192 - 3	-.223601	2	.421213 - 3	.569525 - 1	.383659 - 1
4.8	.231821 - 1	.502588 - 1	-.194650 - 3	-.224639	2	.437709 - 3	.618061 - 1	.384241 - 1
5.0	.231877 - 1	.548103 - 1	-.195044 - 3	-.225589	2	.452446 - 3	.668554 - 1	.384803 - 1
5.2	.231926 - 1	.595581 - 1	-.193184 - 3	-.226461	2	.465237 - 3	.721005 - 1	.385345 - 1
5.4	.231969 - 1	.645022 - 1	-.188880 - 3	-.227265	2	.475892 - 3	.775415 - 1	.385867 - 1
5.6	.232006 - 1	.696426 - 1	-.181944 - 3	-.228008	2	.484224 - 3	.831783 - 1	.386368 - 1
5.8	.232038 - 1	.749793 - 1	-.172187 - 3	-.228696	2	.490044 - 3	.890109 - 1	.386849 - 1
6.0	.232067 - 1	.805122 - 1	-.159420 - 3	-.229335	2	.493164 - 3	.950394 - 1	.387311 - 1
6.2	.232092 - 1	.862414 - 1	-.143453 - 3	-.229930	2	.493394 - 3	.101264	.387755 - 1

Z = - 9, A = 19

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.562957	.813523 - 1	-.166893 - 2	.720793 - 1	.108584 - 1	.416562	.109843	2
.6	.672040	.186826	-.378644 - 2	.482581 - 1	.173005 - 1	.670068	.164247	2
.8	.726614	.320370	-.639117 - 2	.362596 - 1	.231987 - 1	.909713	.218810	2
1.0	.757410	.472142	-.924374 - 2	.289791 - 1	.285680 - 1	.113681	1 .273009	2
1.2	.776266	.635356	-.121783 - 1	.240700 - 1	.334665 - 1	.135386	1 .326575	2
1.4	.788519	.805680	-.150885 - 1	.205268 - 1	.379543 - 1	.156324	1 .379364	2
1.6	.796856	.980442	-.179085 - 1	.178457 - 1	.420818 - 1	.170000	1 .431301	2
1.8	.802737	.115800	1 -.205975 - 1	.157429 - 1	.458871 - 1	.196619	1 .402349	2
2.0	.807011	.133735	1 -.231304 - 1	.140496 - 1	.493995 - 1	.216218	1 .532497	2
2.2	.810193	.151786	1 -.254914 - 1	.126561 - 1	.526400 - 1	.235572	1 .581746	2
2.4	.812611	.169913	1 -.276704 - 1	.114889 - 1	.556243 - 1	.254733	1 .630105	2
2.6	.814478	.188090	1 -.296607 - 1	.104969 - 1	.583641 - 1	.273744	1 .677588	2
2.8	.815942	.206300	1 -.314581 - 1	.964329 - 2	.608680 - 1	.292637	1 .724214	2
3.0	.817103	.224533	1 -.330596 - 1	.890104 - 2	.631427 - 1	.311434	1 .770001	2
3.2	.818033	.242782	1 -.344634 - 1	.824963 - 2	.651934 - 1	.330156	1 .814969	2
3.4	.818785	.261040	1 -.356680 - 1	.767336 - 2	.670240 - 1	.348815	1 .859140	2
3.6	.819396	.279306	1 -.366725 - 1	.715993 - 2	.686377 - 1	.367423	1 .902533	2
3.8	.819896	.297576	1 -.374763 - 1	.669960 - 2	.700368 - 1	.385989	1 .945168	2
4.0	.820307	.315850	1 -.380789 - 1	.628454 - 2	.712234 - 1	.404521	1 .987068	2
4.2	.820646	.334126	1 -.384800 - 1	.590841 - 2	.721991 - 1	.423024	1 .102825	3
4.4	.820926	.352404	1 -.386792 - 1	.556597 - 2	.729652 - 1	.441503	1 .106873	3
4.6	.821157	.370684	1 -.386765 - 1	.525291 - 2	.735227 - 1	.459961	1 .110854	3
4.8	.821348	.388965	1 -.384717 - 1	.496562 - 2	.738725 - 1	.478403	1 .114768	3
5.0	.821506	.407247	1 -.380647 - 1	.470104 - 2	.740152 - 1	.496831	1 .118619	3
5.2	.821635	.425530	1 -.374554 - 1	.445661 - 2	.739516 - 1	.515248	1 .122407	3
5.4	.821741	.443816	1 -.366437 - 1	.423010 - 2	.736820 - 1	.533654	1 .126134	3
5.6	.821827	.462102	1 -.356296 - 1	.401965 - 2	.732070 - 1	.552053	1 .129801	3
5.8	.821895	.480391	1 -.344130 - 1	.382359 - 2	.725267 - 1	.570446	1 .133412	3
6.0	.821949	.498681	1 -.329939 - 1	.364053 - 2	.716416 - 1	.588834	1 .136966	3
6.2	.821991	.516974	1 -.313723 - 1	.346921 - 2	.705518 - 1	.607217	1 .140466	3

Z = - 9, A = 19

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.158777 - 1	.901012 - 4	-.104116 - 5	-.612683	1	.693969 - 5	.466189 - 3	.800461 - 1
.6	.186941 - 1	.309927 - 3	-.353532 - 5	-.866140	1	.164624 - 4	.111705 - 2	.603414 - 1
.8	.201200 - 1	.708363 - 3	-.794522 - 5	-.107287	2	.293457 - 4	.201733 - 2	.519602 - 1
1.0	.209322 - 1	.130482 - 2	-.143450 - 4	-.123822	2	.450915 - 4	.314790 - 2	.477953 - 1
1.2	.214336 - 1	.210707 - 2	-.226459 - 4	-.136975	2	.632994 - 4	.449632 - 2	.455492 - 1
1.4	.217620 - 1	.311736 - 2	-.326815 - 4	-.147475	2	.836465 - 4	.605511 - 2	.442811 - 1
1.6	.219870 - 1	.433568 - 2	-.442528 - 4	-.155929	2	.105860 - 3	.781999 - 2	.435498 - 1
1.8	.221471 - 1	.576123 - 2	-.571493 - 4	-.162810	2	.129699 - 3	.978853 - 2	.431290 - 1
2.0	.222645 - 1	.739308 - 2	-.711578 - 4	-.168475	2	.154938 - 3	.119594 - 1	.428946 - 1
2.2	.223527 - 1	.923033 - 2	-.860658 - 4	-.173193	2	.181363 - 3	.143318 - 1	.427753 - 1
2.4	.224204 - 1	.112722 - 1	-.101662 - 3	-.177165	2	.208767 - 3	.169053 - 1	.427285 - 1
2.6	.224734 - 1	.135182 - 1	-.117738 - 3	-.180544	2	.236943 - 3	.196797 - 1	.427279 - 1
2.8	.225154 - 1	.159677 - 1	-.134084 - 3	-.183444	2	.265689 - 3	.226550 - 1	.427568 - 1
3.0	.225492 - 1	.186204 - 1	-.150496 - 3	-.185956	2	.294802 - 3	.258311 - 1	.428044 - 1
3.2	.225767 - 1	.214759 - 1	-.166768 - 3	-.188149	2	.324082 - 3	.292079 - 1	.428637 - 1
3.4	.225993 - 1	.245340 - 1	-.182695 - 3	-.190077	2	.353328 - 3	.327856 - 1	.429298 - 1
3.6	.226181 - 1	.277944 - 1	-.198073 - 3	-.191784	2	.382338 - 3	.365640 - 1	.429997 - 1
3.8	.226337 - 1	.312571 - 1	-.212699 - 3	-.193303	2	.410913 - 3	.405434 - 1	.430712 - 1
4.0	.226469 - 1	.349219 - 1	-.226371 - 3	-.194663	2	.438850 - 3	.447236 - 1	.431428 - 1
4.2	.226581 - 1	.387886 - 1	-.238885 - 3	-.195887	2	.465951 - 3	.491047 - 1	.432137 - 1
4.4	.226676 - 1	.428572 - 1	-.250039 - 3	-.196994	2	.492014 - 3	.536868 - 1	.432831 - 1
4.6	.226757 - 1	.471276 - 1	-.259631 - 3	-.197999	2	.516838 - 3	.584699 - 1	.433507 - 1
4.8	.226827 - 1	.515997 - 1	-.267460 - 3	-.198915	2	.540223 - 3	.634540 - 1	.434162 - 1
5.0	.226888 - 1	.562735 - 1	-.273323 - 3	-.199754	2	.561969 - 3	.686392 - 1	.434795 - 1
5.2	.226940 - 1	.611489 - 1	-.277018 - 3	-.200524	2	.581873 - 3	.740254 - 1	.435405 - 1
5.4	.226985 - 1	.662260 - 1	-.278345 - 3	-.201233	2	.599737 - 3	.796127 - 1	.435991 - 1
5.6	.227024 - 1	.715046 - 1	-.277101 - 3	-.201888	2	.615358 - 3	.854011 - 1	.436555 - 1
5.8	.227058 - 1	.769847 - 1	-.273085 - 3	-.202495	2	.628536 - 3	.913906 - 1	.437097 - 1
6.0	.227087 - 1	.826664 - 1	-.266096 - 3	-.203059	2	.639071 - 3	.975813 - 1	.437617 - 1
6.2	.227113 - 1	.885496 - 1	-.255932 - 3	-.203584	2	.646761 - 3	.103973	.438116 - 1

Z = - 10, A = 21

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.526871	.789442 - 1	-.183479 - 2	.805739 - 1	.116773 - 1	.402913	.996114	1
.6	.643198	.183028	-.420698 - 2	.540383 - 1	.188275 - 1	.655414	.148928	2
.8	.702113	.315172	-.714077 - 2	.406920 - 1	.253899 - 1	.894097	.198647	2
1.0	.735525	.465512	-.103683 - 1	.325979 - 1	.313779 - 1	.112010	1 .248253	2
1.2	.756026	.627250	-.137044 - 1	.271414 - 1	.368563 - 1	.133592	1 .297482	2
1.4	.769357	.796056	-.170303 - 1	.232038 - 1	.418931 - 1	.154396	1 .346190	2
1.6	.778426	.969262	-.202720 - 1	.202237 - 1	.465449 - 1	.174015	1 .394207	2
1.8	.784820	.114523	1 -.233863 - 1	.178876 - 1	.508550 - 1	.194395	1 .441780	2
2.0	.789460	.132297	1 -.263434 - 1	.160060 - 1	.548560 - 1	.213843	1 .488559	2
2.2	.792909	.150183	1 -.291264 - 1	.144575 - 1	.585715 - 1	.233038	1 .534685	2
2.4	.795524	.168144	1 -.317241 - 1	.131605 - 1	.620193 - 1	.252038	1 .580140	2
2.6	.797540	.186154	1 -.341294 - 1	.120582 - 1	.652125 - 1	.270885	1 .624929	2
2.8	.799115	.204195	1 -.363376 - 1	.111098 - 1	.681608 - 1	.289611	1 .669061	2
3.0	.800361	.222258	1 -.383454 - 1	.102850 - 1	.708718 - 1	.308241	1 .712546	2
3.2	.801355	.240336	1 -.401507 - 1	.956125 - 2	.733513 - 1	.326793	1 .755396	2
3.4	.802155	.258422	1 -.417522 - 1	.892094 - 2	.756037 - 1	.345283	1 .797624	2
3.6	.802802	.276516	1 -.431488 - 1	.835046 - 2	.776325 - 1	.363721	1 .839243	2
3.8	.803329	.294613	1 -.443398 - 1	.783899 - 2	.794405 - 1	.382116	1 .880266	2
4.0	.803759	.312714	1 -.453247 - 1	.737782 - 2	.810299 - 1	.400476	1 .920706	2
4.2	.804111	.330816	1 -.461032 - 1	.695991 - 2	.824025 - 1	.418807	1 .960577	2
4.4	.804399	.348921	1 -.466751 - 1	.657944 - 2	.835598 - 1	.437114	1 .999892	2
4.6	.804635	.367027	1 -.470401 - 1	.623162 - 2	.845030 - 1	.455401	1 .103866	3
4.8	.804828	.385134	1 -.471981 - 1	.591242 - 2	.852331 - 1	.473670	1 .107690	3
5.0	.804984	.403242	1 -.471491 - 1	.561848 - 2	.857508 - 1	.491926	1 .111463	3
5.2	.805110	.421352	1 -.468930 - 1	.534691 - 2	.860568 - 1	.510171	1 .115184	3
5.4	.805211	.439463	1 -.464296 - 1	.509527 - 2	.861517 - 1	.528405	1 .118857	3
5.6	.805290	.457576	1 -.457590 - 1	.486146 - 2	.860359 - 1	.546632	1 .122481	3
5.8	.805351	.475691	1 -.448810 - 1	.464366 - 2	.857099 - 1	.564853	1 .126058	3
6.0	.805397	.493808	1 -.437957 - 1	.444030 - 2	.851740 - 1	.583069	1 .129589	3
6.2	.805429	.511927	1 -.425030 - 1	.424998 - 2	.844283 - 1	.601281	1 .133075	3

Z = - 10, A = 21

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.149129 - 1	.903555 - 4	-.118428 - 5	-.549565	1	.773106 - 5	.467120 - 3	.892606 - 1
.6	.178989 - 1	.313669 - 3	-.406305 - 5	-.777433	1	.185300 - 4	.113009 - 2	.672888 - 1
.8	.194287 - 1	.719864 - 3	-.918272 - 5	-.963004	1	.332029 - 4	.204959 - 2	.579572 - 1
1.0	.203048 - 1	.132893 - 2	-.166463 - 4	-.111129	2	.511912 - 4	.320552 - 2	.533227 - 1
1.2	.208471 - 1	.214881 - 2	-.263690 - 4	-.122916	2	.720504 - 4	.458480 - 2	.508239 - 1
1.4	.212027 - 1	.318177 - 2	-.381769 - 4	-.132321	2	.954267 - 4	.617960 - 2	.494134 - 1
1.6	.214466 - 1	.442775 - 2	-.518586 - 4	-.139891	2	.121025 - 3	.798541 - 2	.486001 - 1
1.8	.216201 - 1	.588591 - 2	-.671900 - 4	-.146050	2	.148584 - 3	.999968 - 2	.481320 - 1
2.0	.217473 - 1	.755525 - 2	-.839438 - 4	-.151119	2	.177866 - 3	.122210 - 1	.478712 - 1
2.2	.218428 - 1	.943483 - 2	-.101094 - 3	-.155340	2	.208642 - 3	.146485 - 1	.477385 - 1
2.4	.219161 - 1	.115239 - 1	-.120815 - 3	-.158893	2	.240691 - 3	.172818 - 1	.476865 - 1
2.6	.219733 - 1	.138217 - 1	-.140486 - 3	-.161915	2	.273795 - 3	.201207 - 1	.476858 - 1
2.8	.220187 - 1	.163279 - 1	-.160686 - 3	-.164509	2	.307740 - 3	.231651 - 1	.477179 - 1
3.0	.220551 - 1	.190419 - 1	-.181195 - 3	-.166755	2	.342312 - 3	.264149 - 1	.477707 - 1
3.2	.220848 - 1	.219635 - 1	-.201797 - 3	-.168715	2	.377297 - 3	.298701 - 1	.478366 - 1
3.4	.221091 - 1	.250923 - 1	-.222275 - 3	-.170439	2	.412484 - 3	.335308 - 1	.479101 - 1
3.6	.221292 - 1	.284283 - 1	-.242412 - 3	-.171964	2	.447660 - 3	.373969 - 1	.479877 - 1
3.8	.221460 - 1	.319711 - 1	-.261993 - 3	-.173323	2	.482612 - 3	.414685 - 1	.480672 - 1
4.0	.221601 - 1	.357207 - 1	-.280804 - 3	-.174538	2	.517129 - 3	.457457 - 1	.481468 - 1
4.2	.221720 - 1	.396770 - 1	-.298630 - 3	-.175633	2	.550998 - 3	.502284 - 1	.482256 - 1
4.4	.221821 - 1	.438398 - 1	-.315257 - 3	-.176622	2	.584007 - 3	.549167 - 1	.483028 - 1
4.6	.221907 - 1	.482090 - 1	-.330470 - 3	-.177520	2	.615944 - 3	.598107 - 1	.483779 - 1
4.8	.221981 - 1	.527847 - 1	-.344057 - 3	-.178339	2	.646597 - 3	.649103 - 1	.484507 - 1
5.0	.222044 - 1	.575667 - 1	-.355804 - 3	-.179088	2	.675753 - 3	.702156 - 1	.485210 - 1
5.2	.222098 - 1	.625551 - 1	-.365497 - 3	-.179776	2	.703201 - 3	.757266 - 1	.485888 - 1
5.4	.222145 - 1	.677497 - 1	-.372922 - 3	-.180410	2	.728727 - 3	.814434 - 1	.486541 - 1
5.6	.222186 - 1	.731505 - 1	-.377868 - 3	-.180995	2	.752120 - 3	.873659 - 1	.487167 - 1
5.8	.222221 - 1	.787576 - 1	-.380120 - 3	-.181538	2	.773166 - 3	.934942 - 1	.487770 - 1
6.0	.222252 - 1	.845708 - 1	-.379465 - 3	-.182042	2	.791654 - 3	.998283 - 1	.488348 - 1
6.2	.222278 - 1	.905902 - 1	-.375691 - 3	-.182511	2	.807372 - 3	.106368	.488903 - 1

Z = - 11, A = 23

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.492869	.766126 - 1	-.199048 - 2	.891748 - 1	.124282 - 1	.389610	.912838	1
.6	.615623	.179336	-.461199 - 2	.599028 - 1	.202804 - 1	.641079	.136428	2
.8	.678589	.310118	-.787020 - 2	.452038 - 1	.275035 - 1	.878824	.182187	2
1.0	.714482	.459064	-.114685 - 1	.362945 - 1	.341066 - 1	.110377	.228048	2
1.2	.736554	.619369	-.152021 - 1	.302901 - 1	.401614 - 1	.131840	.273752	2
1.4	.750918	.786699	-.189401 - 1	.259576 - 1	.457434 - 1	.152514	.319155	2
1.6	.760688	.958391	-.226016 - 1	.228790 - 1	.500167 - 1	.172594	.364176	2
1.8	.767570	.113282	1 -.261369 - 1	.201089 - 1	.557267 - 1	.192229	.408766	2
2.0	.772560	.130897	1 -.295154 - 1	.180389 - 1	.602125 - 1	.211526	.452900	2
2.2	.776262	.148624	1 -.327180 - 1	.163354 - 1	.643998 - 1	.230567	.496564	2
2.4	.779064	.166423	1 -.357326 - 1	.149087 - 1	.683080 - 1	.249409	.539752	2
2.6	.781218	.184269	1 -.385513 - 1	.136961 - 1	.719518 - 1	.268095	.582462	2
2.8	.782897	.202146	1 -.411689 - 1	.126528 - 1	.753423 - 1	.286659	.624697	2
3.0	.784220	.220042	1 -.435822 - 1	.117455 - 1	.784876 - 1	.305126	.666461	2
3.2	.785272	.237953	1 -.457888 - 1	.109493 - 1	.813943 - 1	.323513	.707760	2
3.4	.786114	.255872	1 -.477872 - 1	.102450 - 1	.840674 - 1	.341837	.748600	2
3.6	.786793	.273797	1 -.495764 - 1	.961746 - 2	.865106 - 1	.360108	.788989	2
3.8	.787342	.291725	1 -.511556 - 1	.905483 - 2	.887273 - 1	.378336	.828934	2
4.0	.787787	.309656	1 -.525243 - 1	.854756 - 2	.907197 - 1	.396528	.868443	2
4.2	.788148	.327589	1 -.536823 - 1	.808786 - 2	.924900 - 1	.414691	.907524	2
4.4	.788441	.345524	1 -.546291 - 1	.766936 - 2	.940398 - 1	.432829	.946185	2
4.6	.788678	.363459	1 -.553648 - 1	.728677 - 2	.953704 - 1	.450947	.984435	2
4.8	.788869	.381396	1 -.558891 - 1	.693568 - 2	.964829 - 1	.469048	.102228	3
5.0	.789021	.399334	1 -.562020 - 1	.661237 - 2	.973782 - 1	.487135	.105973	3
5.2	.789141	.417273	1 -.563034 - 1	.631367 - 2	.980571 - 1	.505211	.109680	3
5.4	.789235	.435214	1 -.561933 - 1	.603690 - 2	.985202 - 1	.523277	.113348	3
5.6	.789305	.453157	1 -.558715 - 1	.577974 - 2	.987680 - 1	.541335	.116980	3
5.8	.789356	.471102	1 -.553381 - 1	.554020 - 2	.988009 - 1	.559388	.120575	3
6.0	.789391	.489049	1 -.545930 - 1	.531653 - 2	.986193 - 1	.577435	.124134	3
6.2	.789412	.506998	1 -.536362 - 1	.510722 - 2	.982236 - 1	.595480	.127659	3

Z = - 11, A = 23

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.140051 - 1	.903389 - 4	-.132488 - 5	-.497806 1	.849938 - 5	.466603 - 3	.985530 - 1
.6	.171392 - 1	.316523 - 3	-.459191 - 5	-.704777 1	.205827 - 4	.113986 - 2	.742890 - 1
.8	.187642 - 1	.729412 - 3	-.104336 - 4	-.873059 1	.370686 - 4	.207621 - 2	.640010 - 1
1.0	.197000 - 1	.134952 - 2	-.189837 - 4	-.100739 2	.573351 - 4	.325459 - 2	.588946 - 1
1.2	.202807 - 1	.218497 - 2	-.301624 - 4	-.111411 2	.808932 - 4	.466130 - 2	.561423 - 1
1.4	.206621 - 1	.323802 - 2	-.437885 - 4	-.119921 2	.107357 - 3	.628815 - 2	.545888 - 1
1.6	.209238 - 1	.450858 - 2	-.596390 - 4	-.126767 2	.136409 - 3	.813042 - 2	.536931 - 1
1.8	.211100 - 1	.599572 - 2	-.774764 - 4	-.132336 2	.167770 - 3	.101854 - 1	.531776 - 1
2.0	.212465 - 1	.769840 - 2	-.970599 - 4	-.136918 2	.201187 - 3	.124517 - 1	.528905 - 1
2.2	.213489 - 1	.961563 - 2	-.118150 - 3	-.140733 2	.236418 - 3	.149283 - 1	.527443 - 1
2.4	.214274 - 1	.117466 - 1	-.140509 - 3	-.143943 2	.273230 - 3	.176149 - 1	.526869 - 1
2.6	.214887 - 1	.140906 - 1	-.163903 - 3	-.146673 2	.311394 - 3	.205112 - 1	.526861 - 1
2.8	.215372 - 1	.166472 - 1	-.188099 - 3	-.149017 2	.350684 - 3	.236171 - 1	.527213 - 1
3.0	.215761 - 1	.194158 - 1	-.212866 - 3	-.151046 2	.390874 - 3	.269326 - 1	.527795 - 1
3.2	.216077 - 1	.223962 - 1	-.237974 - 3	-.152816 2	.431741 - 3	.304576 - 1	.528519 - 1
3.4	.216335 - 1	.255881 - 1	-.263196 - 3	-.154373 2	.473060 - 3	.341921 - 1	.529328 - 1
3.6	.216549 - 1	.289912 - 1	-.288304 - 3	-.155750 2	.514610 - 3	.381363 - 1	.530182 - 1
3.8	.216727 - 1	.326054 - 1	-.313071 - 3	-.156977 2	.556167 - 3	.422900 - 1	.531057 - 1
4.0	.216876 - 1	.364305 - 1	-.337271 - 3	-.158075 2	.597507 - 3	.466535 - 1	.531933 - 1
4.2	.217002 - 1	.404665 - 1	-.360679 - 3	-.159062 2	.638408 - 3	.512266 - 1	.532800 - 1
4.4	.217108 - 1	.447131 - 1	-.383069 - 3	-.159956 2	.678647 - 3	.560094 - 1	.533649 - 1
4.6	.217198 - 1	.491704 - 1	-.404216 - 3	-.160767 2	.718000 - 3	.610020 - 1	.534476 - 1
4.8	.217275 - 1	.538382 - 1	-.423896 - 3	-.161506 2	.756244 - 3	.662044 - 1	.535277 - 1
5.0	.217341 - 1	.587165 - 1	-.441883 - 3	-.162182 2	.793157 - 3	.716166 - 1	.536051 - 1
5.2	.217397 - 1	.638053 - 1	-.457954 - 3	-.162803 2	.828515 - 3	.772387 - 1	.536797 - 1
5.4	.217446 - 1	.691045 - 1	-.471883 - 3	-.163375 2	.862095 - 3	.830707 - 1	.537515 - 1
5.6	.217487 - 1	.746141 - 1	-.483447 - 3	-.163904 2	.893673 - 3	.891125 - 1	.538205 - 1
5.8	.217523 - 1	.803341 - 1	-.492422 - 3	-.164394 2	.923026 - 3	.953643 - 1	.538868 - 1
6.0	.217554 - 1	.862644 - 1	-.498583 - 3	-.164848 2	.949932 - 3	.101826	.539504 - 1
6.2	.217580 - 1	.924050 - 1	-.501706 - 3	-.165272 2	.974166 - 3	.108498	.540115 - 1

Z = - 12, A = 24

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.460901	.743575 - 1	-.214279 - 2	.978847 - 1	.131155 - 1	.376663	.843856	1
.6	.589320	.175754	-.501768 - 2	.658510 - 1	.216670 - 1	.627076	.126044	2
.8	.656065	.305213	-.860871 - 2	.497948 - 1	.295530 - 1	.863912	.168506	2
1.0	.694316	.452811	-.125900 - 1	.400686 - 1	.367766 - 1	.108785	.211258	2
1.2	.717891	.611728	-.167368 - 1	.335156 - 1	.434158 - 1	.130133	.254046	2
1.4	.733246	.777629	-.209057 - 1	.287879 - 1	.495537 - 1	.150682	.296729	2
1.6	.743688	.947853	-.250082 - 1	.252104 - 1	.552802 - 1	.170627	.339222	2
1.8	.751040	.112078	1 -.289903 - 1	.224063 - 1	.605888 - 1	.190120	.381478	2
2.0	.756362	.129540	1 -.328186 - 1	.201479 - 1	.655792 - 1	.209271	.423465	2
2.2	.760306	.147111	1 -.364723 - 1	.182893 - 1	.702609 - 1	.228161	.465166	2
2.4	.763203	.164752	1 -.399383 - 1	.167327 - 1	.746555 - 1	.246848	.506570	2
2.6	.765567	.182439	1 -.432082 - 1	.154098 - 1	.787791 - 1	.265378	.547673	2
2.8	.767342	.200154	1 -.462764 - 1	.142716 - 1	.826439 - 1	.283783	.588471	2
3.0	.768736	.217889	1 -.491394 - 1	.132818 - 1	.862592 - 1	.302089	.628965	2
3.2	.769840	.235636	1 -.517948 - 1	.124132 - 1	.896319 - 1	.320314	.669154	2
3.4	.770720	.253390	1 -.542409 - 1	.116448 - 1	.927677 - 1	.338474	.709043	2
3.6	.771425	.271150	1 -.564766 - 1	.109601 - 1	.956708 - 1	.356581	.748634	2
3.8	.771997	.288913	1 -.585013 - 1	.103464 - 1	.983447 - 1	.374644	.787929	2
4.0	.772448	.306677	1 -.603144 - 1	.979294 - 2	.100792	.392671	.826934	2
4.2	.772815	.324443	1 -.619157 - 1	.929143 - 2	.103015	.410668	.865652	2
4.4	.773110	.342211	1 -.633047 - 1	.883488 - 2	.105016	.428639	.904088	2
4.6	.773344	.359979	1 -.644815 - 1	.841750 - 2	.106796	.446591	.942246	2
4.8	.773530	.377747	1 -.654459 - 1	.803448 - 2	.108356	.464524	.980130	2
5.0	.773676	.395517	1 -.661978 - 1	.768177 - 2	.109698	.482444	.101775	3
5.2	.773787	.413288	1 -.667372 - 1	.735591 - 2	.110821	.500352	.105510	3
5.4	.773870	.431061	1 -.670640 - 1	.705398 - 2	.111728	.518251	.109219	3
5.6	.773930	.448835	1 -.671782 - 1	.677344 - 2	.112417	.536141	.112903	3
5.8	.773969	.466611	1 -.670798 - 1	.651212 - 2	.112891	.554026	.116562	3
6.0	.773991	.484390	1 -.667687 - 1	.626812 - 2	.113149	.571906	.120197	3
6.2	.773998	.502171	1 -.662449 - 1	.603979 - 2	.113192	.589783	.123807	3

Z = - 12, A = 24

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.131518 - 1	.888795 - 4	-.144715 - 5	-.454566	1	.911836 - 5	.458606 - 3	.107927
.6	.164142 - 1	.314321 - 3	-.506734 - 5	-.644160	1	.223135 - 4	.113139 - 2	.813435 - 1
.8	.181264 - 1	.727343 - 3	-.115760 - 4	-.798054	1	.403926 - 4	.206972 - 2	.700921 - 1
1.0	.191178 - 1	.134867 - 2	-.211402 - 4	-.920778	1	.626811 - 4	.325187 - 2	.645115 - 1
1.2	.197347 - 1	.218646 - 2	-.336901 - 4	-.101820	2	.886537 - 4	.466375 - 2	.615044 - 1
1.4	.201404 - 1	.324294 - 2	-.490437 - 4	-.109585	2	.117902 - 3	.629691 - 2	.598075 - 1
1.6	.204191 - 1	.451795 - 2	-.669726 - 4	-.115829	2	.150092 - 3	.814649 - 2	.588292 - 1
1.8	.206173 - 1	.601055 - 2	-.872329 - 4	-.120906	2	.184937 - 3	.102097 - 1	.582661 - 1
2.0	.207625 - 1	.771962 - 2	-.109577 - 3	-.125083	2	.222173 - 3	.124851 - 1	.579524 - 1
2.2	.208715 - 1	.964418 - 2	-.133760 - 3	-.128560	2	.261553 - 3	.149716 - 1	.577927 - 1
2.4	.209549 - 1	.117834 - 1	-.159538 - 3	-.131485	2	.302840 - 3	.176690 - 1	.577300 - 1
2.6	.210200 - 1	.141365 - 1	-.186670 - 3	-.133973	2	.345799 - 3	.205769 - 1	.577290 - 1
2.8	.210714 - 1	.167030 - 1	-.214919 - 3	-.136107	2	.390199 - 3	.236951 - 1	.577674 - 1
3.0	.211126 - 1	.194824 - 1	-.244050 - 3	-.137955	2	.435812 - 3	.270237 - 1	.578309 - 1
3.2	.211460 - 1	.224744 - 1	-.273827 - 3	-.139568	2	.482409 - 3	.305627 - 1	.579099 - 1
3.4	.211733 - 1	.256787 - 1	-.304018 - 3	-.140986	2	.529762 - 3	.343120 - 1	.579981 - 1
3.6	.211958 - 1	.290951 - 1	-.334391 - 3	-.142240	2	.577645 - 3	.382716 - 1	.580914 - 1
3.8	.212145 - 1	.327234 - 1	-.364715 - 3	-.143357	2	.625830 - 3	.424417 - 1	.581868 - 1
4.0	.212302 - 1	.365634 - 1	-.394759 - 3	-.144356	2	.674090 - 3	.468223 - 1	.582825 - 1
4.2	.212433 - 1	.406151 - 1	-.424294 - 3	-.145256	2	.722198 - 3	.514133 - 1	.583770 - 1
4.4	.212544 - 1	.448782 - 1	-.453090 - 3	-.146069	2	.769927 - 3	.562148 - 1	.584697 - 1
4.6	.212638 - 1	.493528 - 1	-.480917 - 3	-.146807	2	.817050 - 3	.612269 - 1	.585600 - 1
4.8	.212717 - 1	.540388 - 1	-.507547 - 3	-.147480	2	.863340 - 3	.664497 - 1	.586474 - 1
5.0	.212785 - 1	.589361 - 1	-.532751 - 3	-.148096	2	.908570 - 3	.718830 - 1	.587319 - 1
5.2	.212843 - 1	.640447 - 1	-.556299 - 3	-.148661	2	.952512 - 3	.775270 - 1	.588134 - 1
5.4	.212892 - 1	.693645 - 1	-.577965 - 3	-.149182	2	.994940 - 3	.833816 - 1	.588917 - 1
5.6	.212934 - 1	.748955 - 1	-.597518 - 3	-.149663	2	.103563 - 2	.894470 - 1	.589670 - 1
5.8	.212970 - 1	.806376 - 1	-.614732 - 3	-.150109	2	.107434 - 2	.957231 - 1	.590393 - 1
6.0	.213001 - 1	.865910 - 1	-.629378 - 3	-.150523	2	.111086 - 2	.102210	.591088 - 1
6.2	.213027 - 1	.927554 - 1	-.641227 - 3	-.150908	2	.114496 - 2	.108908	.591755 - 1

Z = - 13, A = 27

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.430726	.721671 - 1	-.227274 - 2	.106706	.137373 - 1	.364029	.785886	1
.6	.564050	.172256	-.537679 - 2	.718858 - 1	.229742 - 1	.613334	.117289	2
.8	.634294	.300416	-.926970 - 2	.544647 - 1	.315077 - 1	.849265	.156964	2
1.0	.674772	.446692	-.135966 - 1	.439197 - 1	.393309 - 1	.107221	.197097	2
1.2	.699780	.604249	-.181132 - 1	.368172 - 1	.465274 - 1	.128458	.237439	2
1.4	.716081	.768752	-.226636 - 1	.316940 - 1	.531881 - 1	.148884	.277851	2
1.6	.727166	.937540	-.271522 - 1	.278176 - 1	.593895 - 1	.100699	.318262	2
1.8	.734964	.110899 1	-.315203 - 1	.247793 - 1	.651903 - 1	.188054	.358590	2
2.0	.740604	.128212 1	-.357320 - 1	.223324 - 1	.706342 - 1	.207062	.398835	2
2.2	.744775	.145631 1	-.397648 - 1	.203187 - 1	.757534 - 1	.225805	.438967	2
2.4	.747918	.163118 1	-.436047 - 1	.186323 - 1	.805717 - 1	.244343	.478972	2
2.6	.750323	.180648 1	-.472428 - 1	.171990 - 1	.851069 - 1	.262720	.518843	2
2.8	.752186	.198207 1	-.506731 - 1	.159658 - 1	.893723 - 1	.280971	.558576	2
3.0	.753644	.215783 1	-.538918 - 1	.148935 - 1	.933780 - 1	.299120	.598166	2
3.2	.754795	.233370 1	-.568965 - 1	.139525 - 1	.971318 - 1	.317189	.637613	2
3.4	.755707	.250965 1	-.596854 - 1	.131200 - 1	.100640	.335191	.676916	2
3.6	.756434	.268563 1	-.622574 - 1	.123783 - 1	.103907	.353139	.716076	2
3.8	.757015	.286165 1	-.646118 - 1	.117134 - 1	.106936	.371042	.755094	2
4.0	.757478	.303768 1	-.667480 - 1	.111139 - 1	.109732	.388909	.793971	2
4.2	.757847	.321372 1	-.686658 - 1	.105706 - 1	.112296	.406746	.832708	2
4.4	.758140	.338977 1	-.703649 - 1	.100760 - 1	.114630	.424557	.871309	2
4.6	.758370	.356583 1	-.718452 - 1	.962392 - 2	.116735	.442348	.909776	2
4.8	.758548	.374189 1	-.731066 - 1	.920902 - 2	.118614	.460122	.948110	2
5.0	.758684	.391797 1	-.741490 - 1	.882696 - 2	.120268	.477881	.986314	2
5.2	.758784	.409406 1	-.749725 - 1	.847400 - 2	.121696	.495629	.102439	3
5.4	.758855	.427016 1	-.755768 - 1	.814697 - 2	.122901	.513367	.106235	3
5.6	.758901	.444628 1	-.759621 - 1	.784311 - 2	.123882	.531098	.110018	3
5.8	.758925	.462243 1	-.761284 - 1	.756008 - 2	.124640	.548824	.113789	3
6.0	.758932	.479860 1	-.760755 - 1	.729581 - 2	.125176	.566545	.117550	3
6.2	.758925	.497479 1	-.758035 - 1	.704853 - 2	.125491	.584262	.121299	3

Z = - 13, A = 27

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.123477 - 1	.896632 - 4	-.159616 - 5	-.417878	1	.995766 - 5	.462143 - 3	.117387
.6	.157196 - 1	.320075 - 3	-.564442 - 5	-.592802	1	.246186 - 4	.115150 - 2	.884534 - 1
.8	.175112 - 1	.743743 - 3	-.129562 - 4	-.734540	1	.447794 - 4	.211571 - 2	.762313 - 1
1.0	.185543 - 1	.138214 - 2	-.237314 - 4	-.847452	1	.696848 - 4	.333182 - 2	.701736 - 1
1.2	.192053 - 1	.224366 - 2	-.379023 - 4	-.937017	1	.987517 - 4	.478496 - 2	.669107 - 1
1.4	.196339 - 1	.333057 - 2	-.552750 - 4	-.100837	2	.131530 - 3	.646620 - 2	.650698 - 1
1.6	.199285 - 1	.464264 - 2	-.756040 - 4	-.106572	2	.167655 - 3	.837040 - 2	.640084 - 1
1.8	.201381 - 1	.617886 - 2	-.986260 - 4	-.111234	2	.206814 - 3	.104946 - 1	.633976 - 1
2.0	.202916 - 1	.793805 - 2	-.124075 - 3	-.115069	2	.248724 - 3	.128373 - 1	.630573 - 1
2.2	.204067 - 1	.991914 - 2	-.151685 - 3	-.118260	2	.293119 - 3	.153974 - 1	.628840 - 1
2.4	.204948 - 1	.121212 - 1	-.181196 - 3	-.120944	2	.339742 - 3	.181745 - 1	.628158 - 1
2.6	.205634 - 1	.145436 - 1	-.212350 - 3	-.123226	2	.388344 - 3	.211683 - 1	.628147 - 1
2.8	.206176 - 1	.171857 - 1	-.244889 - 3	-.125184	2	.438676 - 3	.243787 - 1	.628563 - 1
3.0	.206609 - 1	.200470 - 1	-.278563 - 3	-.126880	2	.490493 - 3	.278056 - 1	.629250 - 1
3.2	.206960 - 1	.231272 - 1	-.313118 - 3	-.128359	2	.543551 - 3	.314490 - 1	.630106 - 1
3.4	.207246 - 1	.264259 - 1	-.348307 - 3	-.129659	2	.597606 - 3	.353090 - 1	.631063 - 1
3.6	.207481 - 1	.299430 - 1	-.383879 - 3	-.130809	2	.652415 - 3	.393855 - 1	.632073 - 1
3.8	.207677 - 1	.336782 - 1	-.419588 - 3	-.131833	2	.707734 - 3	.436786 - 1	.633107 - 1
4.0	.207839 - 1	.376314 - 1	-.455186 - 3	-.132750	2	.763321 - 3	.481883 - 1	.634144 - 1
4.2	.207975 - 1	.418024 - 1	-.490427 - 3	-.133575	2	.818933 - 3	.529147 - 1	.635169 - 1
4.4	.208090 - 1	.461912 - 1	-.525065 - 3	-.134320	2	.874326 - 3	.578578 - 1	.636174 - 1
4.6	.208187 - 1	.507976 - 1	-.558855 - 3	-.134997	2	.929258 - 3	.630177 - 1	.637152 - 1
4.8	.208269 - 1	.556216 - 1	-.591551 - 3	-.135614	2	.983485 - 3	.683943 - 1	.638100 - 1
5.0	.208338 - 1	.606632 - 1	-.622908 - 3	-.136179	2	.103676 - 2	.739878 - 1	.639016 - 1
5.2	.208397 - 1	.659222 - 1	-.652682 - 3	-.136697	2	.108885 - 2	.797981 - 1	.639899 - 1
5.4	.208447 - 1	.713987 - 1	-.680628 - 3	-.137174	2	.113951 - 2	.858252 - 1	.640748 - 1
5.6	.208489 - 1	.770926 - 1	-.706501 - 3	-.137615	2	.118849 - 2	.920693 - 1	.641564 - 1
5.8	.208525 - 1	.830039 - 1	-.730057 - 3	-.138024	2	.123554 - 2	.985303 - 1	.642348 - 1
6.0	.208555 - 1	.891326 - 1	-.751051 - 3	-.138403	2	.128043 - 2	.105208	.643101 - 1
6.2	.208580 - 1	.954786 - 1	-.769240 - 3	-.138757	2	.132292 - 2	.112103	.643824 - 1

Z = - 14, A = 29

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.402397	.700485 - 1	-.240004 - 2	.115643	.143012 - 1	.351746	.736579	1
.6	.539947	.168861	-.573739 - 2	.780051 - 1	.242197 - 1	.599912	.109815	2
.8	.613443	.295761	-.994065 - 2	.592134 - 1	.334030 - 1	.834962	.147103	2
1.0	.656036	.440757	-.146254 - 1	.478475 - 1	.418313 - 1	.105695	.185002	2
1.2	.682415	.596999	-.195272 - 1	.401946 - 1	.495934 - 1	.126825	.223268	2
1.4	.699625	.760147	-.244780 - 1	.346754 - 1	.567879 - 1	.147133	.261766	2
1.6	.711328	.927542	-.293743 - 1	.304998 - 1	.634978 - 1	.166821	.300415	2
1.8	.719555	.109757	1 -.341532 - 1	.272271 - 1	.697874 - 1	.186043	.339167	2
2.0	.725497	.126924	1 -.387760 - 1	.245916 - 1	.757041 - 1	.204912	.377991	2
2.2	.729885	.144195	1 -.432188 - 1	.224228 - 1	.812833 - 1	.223511	.416866	2
2.4	.733184	.161531	1 -.474666 - 1	.206064 - 1	.865508 - 1	.241902	.455780	2
2.6	.735703	.178910	1 -.515098 - 1	.190627 - 1	.915261 - 1	.260130	.494724	2
2.8	.737648	.196314	1 -.553423 - 1	.177346 - 1	.962237 - 1	.278229	.533693	2
3.0	.739164	.213736	1 -.589600 - 1	.165797 - 1	.100655	.296226	.572682	2
3.2	.740356	.231167	1 -.623602 - 1	.155662 - 1	.104827	.314140	.611689	2
3.4	.741296	.248605	1 -.655414 - 1	.146697 - 1	.108749	.331986	.650714	2
3.6	.742041	.266046	1 -.685023 - 1	.138709 - 1	.112424	.349778	.689756	2
3.8	.742631	.283489	1 -.712421 - 1	.131548 - 1	.115856	.367524	.728815	2
4.0	.743098	.300933	1 -.737604 - 1	.125092 - 1	.119050	.385234	.767893	2
4.2	.743466	.318378	1 -.760569 - 1	.119241 - 1	.122008	.402912	.806989	2
4.4	.743754	.335823	1 -.781314 - 1	.113915 - 1	.124732	.420565	.846106	2
4.6	.743976	.353269	1 -.799837 - 1	.109046 - 1	.127224	.438197	.885245	2
4.8	.744144	.370715	1 -.816139 - 1	.104578 - 1	.129485	.455812	.924409	2
5.0	.744268	.388163	1 -.830217 - 1	.100463 - 1	.131517	.473412	.963598	2
5.2	.744355	.405611	1 -.842073 - 1	.966625 - 2	.133320	.491001	.100282	3
5.4	.744411	.423061	1 -.851706 - 1	.931408 - 2	.134896	.508580	.104206	3
5.6	.744441	.440513	1 -.859117 - 1	.898688 - 2	.136245	.526152	.108135	3
5.8	.744449	.457967	1 -.864304 - 1	.868210 - 2	.137368	.543718	.112067	3
6.0	.744440	.475424	1 -.867268 - 1	.839754 - 2	.138265	.561280	.116002	3
6.2	.744415	.492883	1 -.868010 - 1	.813127 - 2	.138936	.578840	.119942	3

Z = - 14, A = 29

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.115920 - 1	.890726 - 4	-.172601 - 5	-.386337	1	.106444 - 4	.458551 - 3	.126937
.6	.150567 - 1	.320975 - 3	-.616481 - 5	-.548720	1	.265921 - 4	.115408 - 2	.956201 - 1
.8	.169206 - 1	.748954 - 3	-.142203 - 4	-.680055	1	.486064 - 4	.212978 - 2	.824191 - 1
1.0	.180118 - 1	.139492 - 2	-.261276 - 4	-.784567	1	.758619 - 4	.336180 - 2	.758815 - 1
1.2	.186947 - 1	.226738 - 2	-.418261 - 4	-.867409	1	.107726 - 3	.483465 - 2	.723614 - 1
1.4	.191450 - 1	.336859 - 2	-.611160 - 4	-.933368	1	.143716 - 3	.653904 - 2	.703757 - 1
1.6	.194547 - 1	.469828 - 2	-.837408 - 4	-.986367	1	.183444 - 3	.846965 - 2	.692310 - 1
1.8	.196751 - 1	.625534 - 2	-.109425 - 3	-.102943	2	.226579 - 3	.106234 - 1	.685722 - 1
2.0	.198364 - 1	.803857 - 2	-.137890 - 3	-.106485	2	.272825 - 3	.129986 - 1	.682052 - 1
2.2	.199573 - 1	.100468 - 1	-.168859 - 3	-.109431	2	.321904 - 3	.155944 - 1	.680182 - 1
2.4	.200498 - 1	.122792 - 1	-.202059 - 3	-.111909	2	.373548 - 3	.184100 - 1	.679446 - 1
2.6	.201217 - 1	.147350 - 1	-.237220 - 3	-.114015	2	.427496 - 3	.214454 - 1	.679433 - 1
2.8	.201784 - 1	.174135 - 1	-.274076 - 3	-.115822	2	.483492 - 3	.247003 - 1	.679880 - 1
3.0	.202237 - 1	.203142 - 1	-.312364 - 3	-.117387	2	.541281 - 3	.281747 - 1	.680620 - 1
3.2	.202603 - 1	.234369 - 1	-.351822 - 3	-.118752	2	.600609 - 3	.318685 - 1	.681542 - 1
3.4	.202902 - 1	.267811 - 1	-.392191 - 3	-.119951	2	.661222 - 3	.357819 - 1	.682573 - 1
3.6	.203147 - 1	.303466 - 1	-.433212 - 3	-.121012	2	.722869 - 3	.399147 - 1	.683662 - 1
3.8	.203349 - 1	.341333 - 1	-.474627 - 3	-.121957	2	.785296 - 3	.442671 - 1	.684776 - 1
4.0	.203517 - 1	.381409 - 1	-.516180 - 3	-.122803	2	.848253 - 3	.488390 - 1	.685893 - 1
4.2	.203658 - 1	.423694 - 1	-.557610 - 3	-.123564	2	.911485 - 3	.536306 - 1	.686998 - 1
4.4	.203776 - 1	.468187 - 1	-.598678 - 3	-.124251	2	.974742 - 3	.586419 - 1	.688080 - 1
4.6	.203875 - 1	.514885 - 1	-.639112 - 3	-.124876	2	.103777 - 2	.638729 - 1	.689134 - 1
4.8	.203958 - 1	.563790 - 1	-.678662 - 3	-.125445	2	.110032 - 2	.693236 - 1	.690156 - 1
5.0	.204028 - 1	.614899 - 1	-.717075 - 3	-.125965	2	.116213 - 2	.749941 - 1	.691143 - 1
5.2	.204088 - 1	.668214 - 1	-.754096 - 3	-.126443	2	.122297 - 2	.808844 - 1	.692094 - 1
5.4	.204138 - 1	.723732 - 1	-.789472 - 3	-.126884	2	.128256 - 2	.869945 - 1	.693009 - 1
5.6	.204180 - 1	.781455 - 1	-.822948 - 3	-.127290	2	.134066 - 2	.933245 - 1	.693889 - 1
5.8	.204215 - 1	.841381 - 1	-.854270 - 3	-.127667	2	.139702 - 2	.998744 - 1	.694734 - 1
6.0	.204245 - 1	.903511 - 1	-.883185 - 3	-.128017	2	.145139 - 2	.106644	.695545 - 1
6.2	.204269 - 1	.967844 - 1	-.909439 - 3	-.128343	2	.150350 - 2	.113634	.696324 - 1

Z = - 15, A = 31

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.375774	.679966 - 1	-.251863 - 2	.124697	.148085 - 1	.339798	.694219	1
.6	.516901	.165560	-.608406 - 2	.842101 - 1	.254006 - 1	.586782	.103367	2
.8	.593406	.291232	-.105931 - 1	.640407 - 1	.352301 - 1	.820966	.138589	2
1.0	.638002	.434984	-.156315 - 1	.518514 - 1	.442605 - 1	.104203	.174563	2
1.2	.665692	.589948	-.209145 - 1	.436473 - 1	.525848 - 1	.125230	.211049	2
1.4	.683775	.751780	-.262615 - 1	.377316 - 1	.603093 - 1	.145423	.247918	2
1.6	.696071	.917821	-.315617 - 1	.332564 - 1	.675240 - 1	.164988	.285092	2
1.8	.704709	.108646	1 -.367475 - 1	.297493 - 1	.742982 - 1	.184080	.322526	2
2.0	.710940	.125671	1 -.417777 - 1	.269250 - 1	.806837 - 1	.202813	.360191	2
2.2	.715533	.142798	1 -.466268 - 1	.246010 - 1	.867188 - 1	.221273	.398068	2
2.4	.718980	.159988	1 -.512790 - 1	.226546 - 1	.924314 - 1	.239521	.436147	2
2.6	.721604	.177217	1 -.557240 - 1	.210005 - 1	.978428 - 1	.257603	.474420	2
2.8	.723625	.194472	1 -.599554 - 1	.195774 - 1	.102969	.275554	.512882	2
3.0	.725194	.211742	1 -.639690 - 1	.183399 - 1	.107821	.293401	.551531	2
3.2	.726422	.229021	1 -.677621 - 1	.172540 - 1	.112409	.311164	.590367	2
3.4	.727385	.246305	1 -.713329 - 1	.162933 - 1	.116741	.328858	.629390	2
3.6	.728144	.263592	1 -.746803 - 1	.154375 - 1	.120821	.346497	.668600	2
3.8	.728740	.280880	1 -.778034 - 1	.146702 - 1	.124654	.364089	.707999	2
4.0	.729208	.298168	1 -.807019 - 1	.139784 - 1	.128244	.381644	.747590	2
4.2	.729572	.315457	1 -.833755 - 1	.133515 - 1	.131594	.399167	.787375	2
4.4	.729852	.332746	1 -.858239 - 1	.127808 - 1	.134705	.416665	.827356	2
4.6	.730063	.350035	1 -.880472 - 1	.122592 - 1	.137582	.434141	.867537	2
4.8	.730219	.367325	1 -.900452 - 1	.117805 - 1	.140223	.451600	.907922	2
5.0	.730328	.384615	1 -.918179 - 1	.113396 - 1	.142632	.469044	.948514	2
5.2	.730399	.401906	1 -.933653 - 1	.109324 - 1	.144809	.486477	.989317	2
5.4	.730438	.419199	1 -.946875 - 1	.105551 - 1	.146755	.503900	.103033	3
5.6	.730451	.436494	1 -.957845 - 1	.102045 - 1	.148472	.521316	.107157	3
5.8	.730441	.453790	1 -.966562 - 1	.987802 - 2	.149958	.538727	.111304	3
6.0	.730413	.471090	1 -.973028 - 1	.957316 - 2	.151216	.556133	.115473	3
6.2	.730369	.488392	1 -.977241 - 1	.928790 - 2	.152246	.573536	.119666	3

Z = - 15, A = 31

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.108813 - 1	.883465 - 4	-.185156 - 5	-.358914	1	.113013 - 4	.454236 - 3	.136582
.6	.144231 - 1	.321392 - 3	-.667948 - 5	-.510457	1	.285307 - 4	.115487 - 2	.102845
.8	.163524 - 1	.753077 - 3	-.154820 - 4	-.632792	1	.524046 - 4	.214070 - 2	.886562 - 1
1.0	.174884 - 1	.140572 - 2	-.285309 - 4	-.730036	1	.820250 - 4	.338695 - 2	.816355 - 1
1.2	.182013 - 1	.228796 - 2	-.457731 - 4	-.807058	1	.116709 - 3	.487754 - 2	.778569 - 1
1.4	.186721 - 1	.340200 - 2	-.670033 - 4	-.868350	1	.155939 - 3	.660285 - 2	.757257 - 1
1.6	.189960 - 1	.474752 - 2	-.919542 - 4	-.917578	1	.199304 - 3	.855730 - 2	.744973 - 1
1.8	.192265 - 1	.632337 - 2	-.120338 - 3	-.957568	1	.246456 - 3	.107377 - 1	.737903 - 1
2.0	.193952 - 1	.812826 - 2	-.151865 - 3	-.990441	1	.297085 - 3	.131424 - 1	.733963 - 1
2.2	.195216 - 1	.101610 - 1	-.186245 - 3	-.101778	2	.350902 - 3	.157703 - 1	.731956 - 1
2.4	.196182 - 1	.124207 - 1	-.223195 - 3	-.104078	2	.407627 - 3	.186208 - 1	.731166 - 1
2.6	.196932 - 1	.149066 - 1	-.262434 - 3	-.106032	2	.466992 - 3	.216937 - 1	.731150 - 1
2.8	.197524 - 1	.176179 - 1	-.303685 - 3	-.107709	2	.528729 - 3	.249887 - 1	.731629 - 1
3.0	.197996 - 1	.205542 - 1	-.346676 - 3	-.109160	2	.592575 - 3	.285059 - 1	.732422 - 1
3.2	.198376 - 1	.237152 - 1	-.391135 - 3	-.110426	2	.658266 - 3	.322453 - 1	.733410 - 1
3.4	.198685 - 1	.271004 - 1	-.436793 - 3	-.111539	2	.725541 - 3	.362067 - 1	.734514 - 1
3.6	.198938 - 1	.307097 - 1	-.483381 - 3	-.112523	2	.794139 - 3	.403904 - 1	.735681 - 1
3.8	.199147 - 1	.345427 - 1	-.530633 - 3	-.113399	2	.863798 - 3	.447962 - 1	.736876 - 1
4.0	.199320 - 1	.385995 - 1	-.578284 - 3	-.114183	2	.934258 - 3	.494243 - 1	.738073 - 1
4.2	.199465 - 1	.428798 - 1	-.626068 - 3	-.114888	2	.100526 - 2	.542746 - 1	.739258 - 1
4.4	.199585 - 1	.473835 - 1	-.673720 - 3	-.115526	2	.107653 - 2	.593473 - 1	.740419 - 1
4.6	.199686 - 1	.521105 - 1	-.720977 - 3	-.116105	2	.114783 - 2	.646423 - 1	.741549 - 1
4.8	.199770 - 1	.570608 - 1	-.767574 - 3	-.116632	2	.121888 - 2	.701598 - 1	.742644 - 1
5.0	.199841 - 1	.622343 - 1	-.813249 - 3	-.117115	2	.128942 - 2	.758997 - 1	.743702 - 1
5.2	.199901 - 1	.676309 - 1	-.857738 - 3	-.117558	2	.135921 - 2	.818620 - 1	.744722 - 1
5.4	.199950 - 1	.732506 - 1	-.900779 - 3	-.117966	2	.142796 - 2	.880469 - 1	.745703 - 1
5.6	.199992 - 1	.790935 - 1	-.942108 - 3	-.118343	2	.149542 - 2	.944543 - 1	.746646 - 1
5.8	.200026 - 1	.851593 - 1	-.981463 - 3	-.118693	2	.156134 - 2	.101084	.747552 - 1
6.0	.200055 - 1	.914482 - 1	-.101858 - 2	-.119017	2	.162544 - 2	.107937	.748422 - 1
6.2	.200078 - 1	.979602 - 1	-.105320 - 2	-.119319	2	.168747 - 2	.115012	.749257 - 1

Z = - 16, A = 33

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.350773	.660088 - 1	-.262888 - 2	.133873	.152618 - 1	.328179	.657517	1
.6	.494865	.162348	-.641724 - 2	.905013 - 1	.265193 - 1	.573938	.977527	1
.8	.574146	.286823	-.112276 - 1	.689465 - 1	.369913 - 1	.807269	.131169	2
1.0	.620640	.429367	-.166154 - 1	.559313 - 1	.466208 - 1	.102744	.165469	2
1.2	.649585	.583090	-.222757 - 1	.471748 - 1	.555042 - 1	.123671	.200418	2
1.4	.668506	.743643	-.280151 - 1	.408620 - 1	.637552 - 1	.143754	.235891	2
1.6	.681371	.908367	-.337151 - 1	.360871 - 1	.714707 - 1	.163199	.271817	2
1.8	.690402	.107565	-.393039 - 1	.323453 - 1	.787257 - 1	.182164	.308155	2
2.0	.696910	.124452	-.447377 - 1	.293322 - 1	.855759 - 1	.200766	.344079	2
2.2	.701699	.141438	-.499894 - 1	.268528 - 1	.920626 - 1	.219089	.381975	2
2.4	.705285	.158405	-.550423 - 1	.247764 - 1	.982163 - 1	.237197	.419435	2
2.6	.708008	.175570	-.598856 - 1	.230118 - 1	.104060	.255137	.457257	2
2.8	.710097	.192678	-.645125 - 1	.214937 - 1	.109610	.272944	.495438	2
3.0	.711714	.209800	-.689188 - 1	.201735 - 1	.114880	.290645	.533981	2
3.2	.712973	.226929	-.731017 - 1	.190151 - 1	.119880	.308259	.572888	2
3.4	.713956	.244063	-.770592 - 1	.179903 - 1	.124618	.325805	.612163	2
3.6	.714725	.261199	-.807904 - 1	.170774 - 1	.129100	.343293	.651811	2
3.8	.715324	.278336	-.842943 - 1	.162589 - 1	.133330	.360735	.691838	2
4.0	.715788	.295472	-.875707 - 1	.155209 - 1	.137313	.378138	.732250	2
4.2	.716145	.312608	-.906192 - 1	.148522 - 1	.141052	.395509	.773053	2
4.4	.716415	.329744	-.934398 - 1	.142435 - 1	.144549	.412855	.814255	2
4.6	.716613	.346880	-.960322 - 1	.136870 - 1	.147807	.430178	.855864	2
4.8	.716754	.364015	-.903966 - 1	.131764 - 1	.150827	.447484	.897888	2
5.0	.716846	.381152	-.100533	.127062 - 1	.153612	.464776	.940334	2
5.2	.716900	.398289	-.102441	.122718 - 1	.156161	.482055	.983214	2
5.4	.716920	.415427	-.104122	.118694 - 1	.158476	.499325	.102653	3
5.6	.716913	.432567	-.105574	.114955 - 1	.160558	.516588	.107031	3
5.8	.716884	.449710	-.106799	.111472 - 1	.162408	.533845	.111454	3
6.0	.716835	.466855	-.107795	.108220 - 1	.164027	.551098	.115925	3
6.2	.716771	.484003	-.108564	.105178 - 1	.165414	.568349	.120444	3

Z = - 16, A = 33

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.102130 - 1	.875057 - 4	-.197258 - 5	-.334835	1	.119277 - 4	.449308 - 3	.146324
.6	.138174 - 1	.321388 - 3	-.718740 - 5	-.476922	1	.304316 - 4	.115410 - 2	.110130
.8	.158059 - 1	.756244 - 3	-.167389 - 4	-.591398	1	.561683 - 4	.214885 - 2	.949434 - 1
1.0	.169834 - 1	.141479 - 2	-.309366 - 4	-.682291	1	.881647 - 4	.340785 - 2	.874361 - 1
1.2	.177244 - 1	.230575 - 2	-.497357 - 4	-.754228	1	.125686 - 3	.491445 - 2	.833973 - 1
1.4	.182145 - 1	.343133 - 2	-.729254 - 4	-.811442	1	.168179 - 3	.665864 - 2	.811200 - 1
1.6	.185519 - 1	.479112 - 2	-.100228 - 3	-.857376	1	.215210 - 3	.863468 - 2	.798074 - 1
1.8	.187920 - 1	.638392 - 2	-.131344 - 3	-.894676	1	.266414 - 3	.108393 - 1	.790519 - 1
2.0	.189677 - 1	.820838 - 2	-.165971 - 3	-.925331	1	.321466 - 3	.132706 - 1	.786309 - 1
2.2	.190993 - 1	.102633 - 1	-.203808 - 3	-.950824	1	.380065 - 3	.159275 - 1	.784164 - 1
2.4	.191997 - 1	.125477 - 1	-.244560 - 3	-.972260	1	.441925 - 3	.188095 - 1	.783318 - 1
2.6	.192777 - 1	.150607 - 1	-.287937 - 3	-.990474	1	.506764 - 3	.219163 - 1	.783300 - 1
2.8	.193390 - 1	.178017 - 1	-.333653 - 3	-.100610	2	.574307 - 3	.252477 - 1	.783810 - 1
3.0	.193879 - 1	.207702 - 1	-.381423 - 3	-.101962	2	.644282 - 3	.288036 - 1	.784656 - 1
3.2	.194272 - 1	.239657 - 1	-.430968 - 3	-.103142	2	.716418 - 3	.325841 - 1	.785710 - 1
3.4	.194591 - 1	.273880 - 1	-.482008 - 3	-.104178	2	.790443 - 3	.365890 - 1	.786889 - 1
3.6	.194852 - 1	.310367 - 1	-.534268 - 3	-.105095	2	.866089 - 3	.408185 - 1	.788134 - 1
3.8	.195067 - 1	.349117 - 1	-.587470 - 3	-.105911	2	.943085 - 3	.452726 - 1	.789409 - 1
4.0	.195244 - 1	.390127 - 1	-.641342 - 3	-.106641	2	.102116 - 2	.499513 - 1	.790687 - 1
4.2	.195391 - 1	.433398 - 1	-.695608 - 3	-.107299	2	.110005 - 2	.548547 - 1	.791952 - 1
4.4	.195514 - 1	.478926 - 1	-.749995 - 3	-.107892	2	.117949 - 2	.599828 - 1	.793191 - 1
4.6	.195616 - 1	.526712 - 1	-.804232 - 3	-.108431	2	.125919 - 2	.653357 - 1	.794397 - 1
4.8	.195701 - 1	.576755 - 1	-.858045 - 3	-.108923	2	.133890 - 2	.709133 - 1	.795566 - 1
5.0	.195772 - 1	.629054 - 1	-.911163 - 3	-.109372	2	.141835 - 2	.767158 - 1	.796695 - 1
5.2	.195831 - 1	.683608 - 1	-.963314 - 3	-.109785	2	.149726 - 2	.827432 - 1	.797784 - 1
5.4	.195880 - 1	.740418 - 1	-.101423 - 2	-.110165	2	.157537 - 2	.889954 - 1	.798831 - 1
5.6	.195921 - 1	.799482 - 1	-.106363 - 2	-.110516	2	.165240 - 2	.954726 - 1	.799838 - 1
5.8	.195954 - 1	.860802 - 1	-.111125 - 2	-.110842	2	.172809 - 2	.102175	.800805 - 1
6.0	.195981 - 1	.924375 - 1	-.115682 - 2	-.111144	2	.180216 - 2	.109102	.801734 - 1
6.2	.196003 - 1	.990203 - 1	-.120007 - 2	-.111425	2	.187436 - 2	.116254	.802625 - 1

Z = - 17, A = 35

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.327309	.640831 - 1	-.273114 - 2	.143173	.156638 - 1	.316888	.625487	1
.6	.473794	.159223	-.673740 - 2	.968793 - 1	.275779 - 1	.561374	.928269	1
.8	.555631	.282532	-.118447 - 1	.739305 - 1	.386887 - 1	.793864	.124653	2
1.0	.603922	.423901	-.175780 - 1	.600867 - 1	.489144 - 1	.101318	.157486	2
1.2	.634068	.576420	-.236116 - 1	.507766 - 1	.583539 - 1	.122147	.191097	2
1.4	.653793	.735730	-.297394 - 1	.440663 - 1	.671281 - 1	.142123	.225368	2
1.6	.667205	.899174	-.358355 - 1	.389912 - 1	.753408 - 1	.161453	.260235	2
1.8	.676615	.106514	1 -.418235 - 1	.350145 - 1	.830726 - 1	.180295	.295662	2
2.0	.683386	.123267	1 -.476571 - 1	.318124 - 1	.903834 - 1	.198768	.331630	2
2.2	.688362	.140115	1 -.533076 - 1	.291776 - 1	.973177 - 1	.216959	.368130	2
2.4	.692079	.157023	1 -.587574 - 1	.269711 - 1	.103908	.234931	.405162	2
2.6	.694893	.173966	1 -.639953 - 1	.250960 - 1	.110180	.252731	.442726	2
2.8	.697046	.190931	1 -.690143 - 1	.234828 - 1	.116150	.270397	.480830	2
3.0	.698706	.207908	1 -.738099 - 1	.220800 - 1	.121834	.287954	.519479	2
3.2	.699992	.224892	1 -.783792 - 1	.208490 - 1	.127242	.305424	.558685	2
3.4	.700990	.241879	1 -.827204 - 1	.197601 - 1	.132383	.322823	.598457	2
3.6	.701765	.258867	1 -.868323 - 1	.187900 - 1	.137262	.340165	.638807	2
3.8	.702363	.275855	1 -.907143 - 1	.179203 - 1	.141887	.357459	.679749	2
4.0	.702822	.292842	1 -.943659 - 1	.171362 - 1	.146259	.374714	.721297	2
4.2	.703169	.309829	1 -.977869 - 1	.164257 - 1	.150384	.391936	.763464	2
4.4	.703425	.326814	1 -.100977	.157789 - 1	.154264	.409132	.806267	2
4.6	.703609	.343800	1 -.103937	.151876 - 1	.157902	.426306	.849723	2
4.8	.703732	.360785	1 -.106666	.146450 - 1	.161298	.443462	.893848	2
5.0	.703806	.377770	1 -.109164	.141455 - 1	.164455	.460603	.938661	2
5.2	.703839	.394756	1 -.111432	.136839 - 1	.167375	.477732	.984180	2
5.4	.703839	.411743	1 -.113469	.132563 - 1	.170057	.494852	.103043	3
5.6	.703811	.428732	1 -.115276	.128591 - 1	.172504	.511965	.107742	3
5.8	.703760	.445723	1 -.116853	.124890 - 1	.174716	.529071	.112518	3
6.0	.703690	.462717	1 -.118199	.121436 - 1	.176693	.546174	.117374	3
6.2	.703603	.479714	1 -.119315	.118203 - 1	.178437	.563275	.122311	3

Z = - 17, A = 35

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.958469 - 2	.865692 - 4	-.208895 - 5	-.313510	1	.125233 - 4	.443860 - 3	.156170
.6	.132383 - 1	.321017 - 3	-.768776 - 5	-.447281	1	.322923 - 4	.115197 - 2	.117475
.8	.152800 - 1	.758571 - 3	-.179889 - 4	-.554835	1	.598925 - 4	.215454 - 2	.101281
1.0	.164959 - 1	.142233 - 2	-.333409 - 4	-.640134	1	.942730 - 4	.342497 - 2	.932838 - 1
1.2	.172634 - 1	.232109 - 2	-.537076 - 4	-.707591	1	.134645 - 3	.494601 - 2	.889832 - 1
1.4	.177716 - 1	.345704 - 2	-.788728 - 4	-.761212	1	.180421 - 3	.670732 - 2	.865588 - 1
1.6	.181217 - 1	.482971 - 2	-.108549 - 3	-.804243	1	.231141 - 3	.870291 - 2	.851616 - 1
1.8	.183710 - 1	.643783 - 2	-.142424 - 3	-.839174	1	.286425 - 3	.109294 - 1	.843575 - 1
2.0	.185533 - 1	.827998 - 2	-.180184 - 3	-.867875	1	.345933 - 3	.133848 - 1	.839093 - 1
2.2	.186897 - 1	.103549 - 1	-.221517 - 3	-.891737	1	.409354 - 3	.160681 - 1	.836808 - 1
2.4	.187938 - 1	.126616 - 1	-.266117 - 3	-.911799	1	.476390 - 3	.189787 - 1	.835907 - 1
2.6	.188744 - 1	.151992 - 1	-.313604 - 3	-.928843	1	.546753 - 3	.221162 - 1	.835886 - 1
2.8	.189379 - 1	.179671 - 1	-.363922 - 3	-.943463	1	.620158 - 3	.254805 - 1	.836427 - 1
3.0	.189883 - 1	.209646 - 1	-.416538 - 3	-.956113	1	.696324 - 3	.290714 - 1	.837326 - 1
3.2	.190288 - 1	.241915 - 1	-.471243 - 3	-.967147	1	.774972 - 3	.328890 - 1	.838446 - 1
3.4	.190616 - 1	.276472 - 1	-.527748 - 3	-.976842	1	.855823 - 3	.369333 - 1	.839699 - 1
3.6	.190884 - 1	.313316 - 1	-.585768 - 3	-.985418	1	.938600 - 3	.412043 - 1	.841023 - 1
3.8	.191104 - 1	.352445 - 1	-.645020 - 3	-.993050	1	.102302 - 2	.457020 - 1	.842379 - 1
4.0	.191285 - 1	.393856 - 1	-.705220 - 3	-.999880	1	.110882 - 2	.504265 - 1	.843737 - 1
4.2	.191434 - 1	.437549 - 1	-.766085 - 3	-.100602	2	.119571 - 2	.553778 - 1	.845082 - 1
4.4	.191558 - 1	.483522 - 1	-.827335 - 3	-.101158	2	.128341 - 2	.605559 - 1	.846399 - 1
4.6	.191661 - 1	.531774 - 1	-.888689 - 3	-.101662	2	.137166 - 2	.659610 - 1	.847682 - 1
4.8	.191747 - 1	.582304 - 1	-.949865 - 3	-.102121	2	.146017 - 2	.715930 - 1	.848925 - 1
5.0	.191817 - 1	.635112 - 1	-.101058 - 2	-.102542	2	.154866 - 2	.774520 - 1	.850126 - 1
5.2	.191876 - 1	.690198 - 1	-.107057 - 2	-.102928	2	.163685 - 2	.835380 - 1	.851283 - 1
5.4	.191924 - 1	.747560 - 1	-.112953 - 2	-.103283	2	.172448 - 2	.898511 - 1	.852397 - 1
5.6	.191963 - 1	.807199 - 1	-.118720 - 2	-.103611	2	.181126 - 2	.963913 - 1	.853467 - 1
5.8	.191995 - 1	.869114 - 1	-.124330 - 2	-.103915	2	.189692 - 2	.103159	.854496 - 1
6.0	.192021 - 1	.933306 - 1	-.129754 - 2	-.104198	2	.198117 - 2	.110153	.855483 - 1
6.2	.192041 - 1	.999773 - 1	-.134965 - 2	-.104461	2	.206374 - 2	.117375	.856431 - 1

$z = -18, A = 38$

p	F_0	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.305256	.622133 - 1	-.282159 - 2	.152601	.160155 - 1	.305902	.597365	1
.6	.453577	.156172	-.703404 - 2	.103345	.285739 - 1	.549054	.884757	1
.8	.537746	.278337	-.124246 - 1	.789929 - 1	.403153 - 1	.780699	.118891	2
1.0	.587731	.418557	-.184874 - 1	.643174 - 1	.511280 - 1	.999164	.150430	2
1.2	.619020	.569897	-.248762 - 1	.544524 - 1	.611120 - 1	.120652	.182871	2
1.4	.639516	.727992	-.313723 - 1	.473439 - 1	.703954 - 1	.140523	.216103	2
1.6	.653452	.890183	-.378420 - 1	.419684 - 1	.790890 - 1	.159740	.250070	2
1.8	.663223	.105487	1 -.442047 - 1	.377566 - 1	.872788 - 1	.178462	.284745	2
2.0	.670246	.122108	1 -.504115 - 1	.343653 - 1	.950293 - 1	.196810	.320116	2
2.2	.675398	.138822	1 -.564323 - 1	.315750 - 1	.102388	.214871	.356184	2
2.4	.679238	.155592	1 -.622485 - 1	.292383 - 1	.109390	.232710	.392954	2
2.6	.682137	.172397	1 -.678486 - 1	.272526 - 1	.116063	.250375	.430439	2
2.8	.684348	.189222	1 -.732251 - 1	.255442 - 1	.122424	.267902	.468653	2
3.0	.686046	.206057	1 -.783736 - 1	.240588 - 1	.128491	.285319	.507613	2
3.2	.687354	.222899	1 -.832911 - 1	.227553 - 1	.134274	.302648	.547338	2
3.4	.688364	.239742	1 -.879757 - 1	.216022 - 1	.139782	.319905	.587851	2
3.6	.689141	.256585	1 -.924264 - 1	.205750 - 1	.145022	.337103	.629174	2
3.8	.689736	.273428	1 -.966424 - 1	.196541 - 1	.150001	.354253	.671333	2
4.0	.690186	.290270	1 -.100623	.188238 - 1	.154723	.371363	.714353	2
4.2	.690520	.307110	1 -.104369	.180715 - 1	.159192	.388441	.758262	2
4.4	.690761	.323949	1 -.107880	.173866 - 1	.163410	.405492	.803091	2
4.6	.690927	.340787	1 -.111155	.167606 - 1	.167380	.422520	.848871	2
4.8	.691030	.357625	1 -.114195	.161861 - 1	.171104	.439530	.895634	2
5.0	.691084	.374464	1 -.117000	.156571 - 1	.174584	.456526	.943417	2
5.2	.691095	.391302	1 -.119570	.151685 - 1	.177821	.473509	.992254	2
5.4	.691073	.408142	1 -.121905	.147158 - 1	.180817	.490483	.104219	3
5.6	.691022	.424984	1 -.124006	.142952 - 1	.183573	.507450	.109325	3
5.8	.690948	.441828	1 -.125872	.139034 - 1	.186089	.524411	.114550	3
6.0	.690854	.458675	1 -.127503	.135377 - 1	.188366	.541369	.119897	3
6.2	.690744	.475524	1 -.128899	.131955 - 1	.190405	.558324	.125371	3

z = - 18, A = 38

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.899327 - 2	.863115 - 4	-.221676 - 5	-.294480 1	.132035 - 4	.441869 - 3	.166123
.6	.126837 - 1	.323172 - 3	-.823956 - 5	-.420884 1	.344107 - 4	.115885 - 2	.124883
.8	.147728 - 1	.766913 - 3	-.193687 - 4	-.522299 1	.641272 - 4	.217725 - 2	.107671
1.0	.160242 - 1	.144120 - 2	-.359935 - 4	-.602634 1	.101209 - 3	.346933 - 2	.991790 - 1
1.2	.168163 - 1	.235500 - 2	-.580839 - 4	-.666115 1	.144802 - 3	.501707 - 2	.946148 - 1
1.4	.173416 - 1	.351048 - 2	-.854142 - 4	-.716547 1	.194273 - 3	.680970 - 2	.920425 - 1
1.6	.177038 - 1	.490710 - 2	-.117681 - 3	-.757001 1	.249133 - 3	.884096 - 2	.905601 - 1
1.8	.179616 - 1	.654350 - 2	-.154555 - 3	-.789830 1	.308975 - 3	.111073 - 1	.897070 - 1
2.0	.181501 - 1	.841822 - 2	-.195706 - 3	-.816797 1	.373442 - 3	.136067 - 1	.892315 - 1
2.2	.182911 - 1	.105300 - 1	-.240806 - 3	-.839212 1	.442207 - 3	.163380 - 1	.889890 - 1
2.4	.183985 - 1	.128776 - 1	-.289532 - 3	-.858054 1	.514957 - 3	.193006 - 1	.888932 - 1
2.6	.184818 - 1	.154603 - 1	-.341570 - 3	-.874060 1	.591388 - 3	.224942 - 1	.888908 - 1
2.8	.185471 - 1	.182773 - 1	-.396607 - 3	-.887787 1	.671204 - 3	.259185 - 1	.889481 - 1
3.0	.185990 - 1	.213281 - 1	-.454338 - 3	-.899663 1	.754109 - 3	.295734 - 1	.890432 - 1
3.2	.186406 - 1	.246123 - 1	-.514459 - 3	-.910021 1	.839812 - 3	.334590 - 1	.891619 - 1
3.4	.186742 - 1	.281294 - 1	-.576668 - 3	-.919122 1	.928022 - 3	.375753 - 1	.892946 - 1
3.6	.187016 - 1	.318792 - 1	-.640666 - 3	-.927172 1	.101845 - 2	.419222 - 1	.894349 - 1
3.8	.187239 - 1	.358616 - 1	-.706156 - 3	-.934335 1	.111080 - 2	.464998 - 1	.895785 - 1
4.0	.187423 - 1	.400762 - 1	-.772842 - 3	-.940745 1	.120478 - 2	.513082 - 1	.897225 - 1
4.2	.187575 - 1	.445229 - 1	-.840428 - 3	-.946511 1	.130012 - 2	.563473 - 1	.898649 - 1
4.4	.187700 - 1	.492017 - 1	-.908620 - 3	-.951723 1	.139650 - 2	.616173 - 1	.900045 - 1
4.6	.187803 - 1	.541124 - 1	-.977123 - 3	-.956453 1	.149366 - 2	.671182 - 1	.901405 - 1
4.8	.187888 - 1	.592549 - 1	-.104564 - 2	-.960765 1	.159129 - 2	.728500 - 1	.902722 - 1
5.0	.187958 - 1	.646293 - 1	-.111389 - 2	-.964709 1	.168910 - 2	.788128 - 1	.903994 - 1
5.2	.188016 - 1	.702354 - 1	-.118157 - 2	-.968329 1	.178682 - 2	.850066 - 1	.905221 - 1
5.4	.188063 - 1	.760732 - 1	-.124839 - 2	-.971664 1	.188413 - 2	.914315 - 1	.906401 - 1
5.6	.188101 - 1	.821426 - 1	-.131406 - 2	-.974744 1	.198077 - 2	.980874 - 1	.907536 - 1
5.8	.188131 - 1	.884437 - 1	-.137828 - 2	-.977596 1	.207643 - 2	.104974	.908626 - 1
6.0	.188154 - 1	.949764 - 1	-.144077 - 2	-.980246 1	.217082 - 2	.112093	.909672 - 1
6.2	.188172 - 1	.101741	-.150123 - 2	-.982713 1	.226366 - 2	.119442	.910677 - 1

Z = - 19, A = 41

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.284584	.604012 - 1	-.290529 - 2	.162160	.163212 - 1	.295233	.572547	1
.6	.434243	.153202	-.731975 - 2	.109898	.295140 - 1	.537001	.846093	1
.8	.520542	.274252	-.129903 - 1	.841335 - 1	.418826 - 1	.767807	.113764	2
1.0	.572126	.413353	-.193800 - 1	.686230 - 1	.532802 - 1	.985451	.144156	2
1.2	.604510	.563549	-.261217 - 1	.582019 - 1	.638068 - 1	.119190	1 .175568	2
1.4	.625746	.720463	-.329830 - 1	.506943 - 1	.735974 - 1	.138960	1 .207899	2
1.6	.640187	.881435	-.398253 - 1	.450180 - 1	.827695 - 1	.158067	1 .241104	2
1.8	.650305	.104487	1 -.465610 - 1	.405708 - 1	.914152 - 1	.176673	1 .275163	2
2.0	.657569	.120979	1 -.531393 - 1	.369903 - 1	.996031 - 1	.194898	1 .310078	2
2.2	.662888	.137562	1 -.595289 - 1	.340443 - 1	.107384	.212833	1 .345857	2
2.4	.666844	.154199	1 -.657104 - 1	.315773 - 1	.114796	.230541	1 .382519	2
2.6	.669823	.170869	1 -.716717 - 1	.294810 - 1	.121867	.248073	1 .420088	2
2.8	.672086	.187556	1 -.774053 - 1	.276775 - 1	.128619	.265465	1 .458590	2
3.0	.673817	.204254	1 -.829063 - 1	.261093 - 1	.135066	.282746	1 .498056	2
3.2	.675143	.220955	1 -.881719 - 1	.247332 - 1	.141223	.299936	1 .538521	2
3.4	.676161	.237658	1 -.932002 - 1	.235160 - 1	.147098	.317054	1 .580021	2
3.6	.676938	.254360	1 -.979901 - 1	.224316 - 1	.152699	.334112	1 .622597	2
3.8	.677526	.271060	1 -.102541	.214594 - 1	.158033	.351120	1 .666290	2
4.0	.677964	.287759	1 -.106853	.205830 - 1	.163104	.368089	1 .711147	2
4.2	.678283	.304456	1 -.110925	.197888 - 1	.167916	.385024	1 .757216	2
4.4	.678507	.321151	1 -.114757	.190659 - 1	.172473	.401932	1 .804549	2
4.6	.678652	.337846	1 -.118351	.184051 - 1	.176777	.418818	1 .853200	2
4.8	.678735	.354539	1 -.121705	.177987 - 1	.180831	.435685	1 .903229	2
5.0	.678765	.371233	1 -.124820	.172404 - 1	.184636	.452537	1 .954698	2
5.2	.678754	.387927	1 -.127695	.167246 - 1	.188194	.469377	1 .100767	3
5.4	.678707	.404623	1 -.130332	.162467 - 1	.191506	.486208	1 .106223	3
5.6	.678632	.421320	1 -.132731	.158028 - 1	.194574	.503032	1 .111844	3
5.8	.678533	.438019	1 -.134890	.153894 - 1	.197397	.519851	1 .117638	3
6.0	.678414	.454722	1 -.136811	.150033 - 1	.199978	.536665	1 .123614	3
6.2	.678280	.471427	1 -.138494	.146422 - 1	.202316	.553478	1 .129782	3

Z = - 19, A = 41

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.843733 - 2	.858775 - 4	-.233952 - 5	-.277381 1	.138479 - 4	.438942 - 3	.176189
.6	.121533 - 1	.324690 - 3	-.878298 - 5	-.397218 1	.364795 - 4	.116339 - 2	.132355
.8	.142846 - 1	.773807 - 3	-.207409 - 4	-.493153 1	.683093 - 4	.219578 - 2	.114112
1.0	.155687 - 1	.145743 - 2	-.386448 - 4	-.569054 1	.108098 - 3	.350723 - 2	.105122
1.2	.163838 - 1	.238468 - 2	-.624714 - 4	-.628984 1	.154923 - 3	.507901 - 2	.100293
1.4	.169253 - 1	.355769 - 2	-.919859 - 4	-.676568 1	.208108 - 3	.689987 - 2	.975713 - 1
1.6	.172987 - 1	.497586 - 2	-.126870 - 3	-.714720 1	.267130 - 3	.896332 - 2	.960034 - 1
1.8	.175647 - 1	.663774 - 2	-.166777 - 3	-.745671 1	.331560 - 3	.112656 - 1	.951010 - 1
2.0	.177590 - 1	.854181 - 2	-.211361 - 3	-.771088 1	.401023 - 3	.138047 - 1	.945980 - 1
2.2	.179043 - 1	.106867 - 1	-.260276 - 3	-.792211 1	.475174 - 3	.165794 - 1	.943414 - 1
2.4	.180150 - 1	.130712 - 1	-.313187 - 3	-.809964 1	.553687 - 3	.195889 - 1	.942399 - 1
2.6	.181005 - 1	.156946 - 1	-.369762 - 3	-.825042 1	.636244 - 3	.228330 - 1	.942371 - 1
2.8	.181677 - 1	.185559 - 1	-.429676 - 3	-.837971 1	.722536 - 3	.263114 - 1	.942975 - 1
3.0	.182209 - 1	.216547 - 1	-.492610 - 3	-.849157 1	.812256 - 3	.300241 - 1	.943979 - 1
3.2	.182634 - 1	.249905 - 1	-.558245 - 3	-.858912 1	.905099 - 3	.339710 - 1	.945232 - 1
3.4	.182978 - 1	.285630 - 1	-.626269 - 3	-.867481 1	.100076 - 2	.381520 - 1	.946634 - 1
3.6	.183257 - 1	.323717 - 1	-.696368 - 3	-.875061 1	.109894 - 2	.425673 - 1	.948116 - 1
3.8	.183484 - 1	.364166 - 1	-.768232 - 3	-.881805 1	.119934 - 2	.472169 - 1	.949633 - 1
4.0	.183670 - 1	.406974 - 1	-.841553 - 3	-.887840 1	.130164 - 2	.521008 - 1	.951154 - 1
4.2	.183823 - 1	.452139 - 1	-.916023 - 3	-.893269 1	.140556 - 2	.572191 - 1	.952658 - 1
4.4	.183949 - 1	.499661 - 1	-.991335 - 3	-.898175 1	.151079 - 2	.625718 - 1	.954133 - 1
4.6	.184052 - 1	.549538 - 1	-.106718 - 2	-.902628 1	.161702 - 2	.681590 - 1	.955569 - 1
4.8	.184137 - 1	.601769 - 1	-.114326 - 2	-.906687 1	.172396 - 2	.739806 - 1	.956961 - 1
5.0	.184206 - 1	.656355 - 1	-.121926 - 2	-.910399 1	.183130 - 2	.800368 - 1	.958305 - 1
5.2	.184262 - 1	.713293 - 1	-.129488 - 2	-.913807 1	.193875 - 2	.863276 - 1	.959601 - 1
5.4	.184307 - 1	.772585 - 1	-.136981 - 2	-.916945 1	.204599 - 2	.928530 - 1	.960848 - 1
5.6	.184343 - 1	.834230 - 1	-.144376 - 2	-.919844 1	.215273 - 2	.996131 - 1	.962047 - 1
5.8	.184371 - 1	.898226 - 1	-.151641 - 2	-.922529 1	.225866 - 2	.106608	.963199 - 1
6.0	.184393 - 1	.964575 - 1	-.158746 - 2	-.925023 1	.236349 - 2	.113837	.964304 - 1
6.2	.184409 - 1	.103328	-.165662 - 2	-.927345 1	.246691 - 2	.121302	.965365 - 1

Z = - 20, A = 44

p	F_0	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.265220	.586451 - 1	-.298249 - 2	.171854	.165832 - 1	.284879	.550553	1
.6	.415755	.150310	-.759479 - 2	.116540	.304003 - 1	.525210	.811561	1
.8	.503990	.270273	-.135421 - 1	.893523 - 1	.433925 - 1	.755184	.109179	2
1.0	.557085	.408287	-.202560 - 1	.730034 - 1	.553729 - 1	.972031	.138547	2
1.2	.590517	.557371	-.273482 - 1	.620245 - 1	.664403 - 1	.117759	.169052	2
1.4	.612465	.713137	-.345742 - 1	.541173 - 1	.767358 - 1	.137432	.200603	2
1.6	.627391	.872924	-.417852 - 1	.481396 - 1	.863844 - 1	.156433	.233163	2
1.8	.637843	.103514	1 -.488918 - 1	.434568 - 1	.954835 - 1	.174925	.266728	2
2.0	.645337	.119881	1 -.558399 - 1	.396868 - 1	.104106	.193031	.301309	2
2.2	.650815	.136336	1 -.625967 - 1	.365850 - 1	.112308	.210842	.336932	2
2.4	.654880	.152043	1 -.691419 - 1	.339877 - 1	.120127	.228424	.373627	2
2.6	.657932	.169380	1 -.754631 - 1	.317807 - 1	.127595	.245826	.411434	2
2.8	.660243	.185934	1 -.815525 - 1	.298819 - 1	.134734	.263086	.450397	2
3.0	.662003	.202496	1 -.874052 - 1	.282310 - 1	.141561	.280233	.490566	2
3.2	.663344	.219060	1 -.930182 - 1	.267823 - 1	.148090	.297288	.531995	2
3.4	.664366	.235625	1 -.983898 - 1	.255008 - 1	.154330	.314268	.574742	2
3.6	.665139	.252189	1 -.103519	.243592 - 1	.160291	.331188	.618871	2
3.8	.665718	.268750	1 -.108405	.233358 - 1	.165979	.348059	.664450	2
4.0	.666142	.285309	1 -.113047	.224132 - 1	.171399	.364888	.711552	2
4.2	.666444	.301865	1 -.117447	.215772 - 1	.176555	.381684	.760258	2
4.4	.666647	.318419	1 -.121603	.208162 - 1	.181451	.398452	.810653	2
4.6	.666771	.334972	1 -.125515	.201205 - 1	.186090	.415197	.862828	2
4.8	.666830	.351525	1 -.129185	.194822 - 1	.190474	.431924	.916883	2
5.0	.666836	.368077	1 -.132611	.188945 - 1	.194605	.448635	.972925	2
5.2	.666799	.384629	1 -.135795	.183516 - 1	.198485	.465335	.103107	3
5.4	.666727	.401183	1 -.138737	.178486 - 1	.202115	.482025	.109144	3
5.6	.666626	.417738	1 -.141436	.173814 - 1	.205497	.498709	.115418	3
5.8	.666501	.434295	1 -.143892	.169462 - 1	.208631	.515387	.121942	3
6.0	.666356	.450856	1 -.146107	.165399 - 1	.211518	.532061	.128734	3
6.2	.666195	.467420	1 -.148080	.161598 - 1	.214159	.548734	.135810	3

Z = - 20, A = 44

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.791481 - 2	.852941 - 4	-.245711 - 5	-.261923	1	.144566 - 4	.435226 - 3	.186371
.6	.116461 - 1	.325657 - 3	-.931727 - 5	-.375874	1	.384974 - 4	.116590 - 2	.139893
.8	.138146 - 1	.779441 - 3	-.221034 - 4	-.466889	1	.724356 - 4	.221065 - 2	.120607
1.0	.151287 - 1	.147136 - 2	-.412910 - 4	-.538808	1	.114934 - 3	.353950 - 2	.111114
1.2	.159655 - 1	.241066 - 2	-.668640 - 4	-.595547	1	.165001 - 3	.513297 - 2	.106017
1.4	.165220 - 1	.359945 - 2	-.985787 - 4	-.640571	1	.221913 - 3	.697937 - 2	.103146
1.6	.169062 - 1	.503706 - 2	-.136102 - 3	-.676656	1	.285117 - 3	.907195 - 2	.101492
1.8	.171798 - 1	.672196 - 2	-.179071 - 3	-.705919	1	.354160 - 3	.114068 - 1	.100540
2.0	.173797 - 1	.865255 - 2	-.227122 - 3	-.729944	1	.428648 - 3	.139819 - 1	.100009
2.2	.175290 - 1	.108274 - 1	-.279896 - 3	-.749906	1	.508221 - 3	.167957 - 1	.997380 - 1
2.4	.176426 - 1	.132453 - 1	-.337041 - 3	-.766680	1	.592538 - 3	.198478 - 1	.996308 - 1
2.6	.177304 - 1	.159054 - 1	-.398213 - 3	-.780924	1	.681271 - 3	.231376 - 1	.996277 - 1
2.8	.177992 - 1	.188068 - 1	-.463071 - 3	-.793137	1	.774095 - 3	.266649 - 1	.996911 - 1
3.0	.178536 - 1	.219490 - 1	-.531284 - 3	-.803702	1	.870694 - 3	.304297 - 1	.997968 - 1
3.2	.178970 - 1	.253315 - 1	-.602521 - 3	-.812915	1	.970749 - 3	.344320 - 1	.999288 - 1
3.4	.179320 - 1	.289539 - 1	-.676455 - 3	-.821008	1	.107395 - 2	.386716 - 1	.100076
3.6	.179604 - 1	.328159 - 1	-.752762 - 3	-.828165	1	.117997 - 2	.431487 - 1	.100232
3.8	.179834 - 1	.369173 - 1	-.831120 - 3	-.834533	1	.128851 - 2	.478634 - 1	.100392
4.0	.180022 - 1	.412578 - 1	-.911207 - 3	-.840231	1	.139925 - 2	.528155 - 1	.100553
4.2	.180176 - 1	.458374 - 1	-.992704 - 3	-.845356	1	.151188 - 2	.580052 - 1	.100711
4.4	.180302 - 1	.506558 - 1	-.107529 - 2	-.849988	1	.162608 - 2	.634325 - 1	.100866
4.6	.180404 - 1	.557130 - 1	-.115865 - 2	-.854192	1	.174155 - 2	.690975 - 1	.101018
4.8	.180488 - 1	.610089 - 1	-.124247 - 2	-.858023	1	.185796 - 2	.750003 - 1	.101164
5.0	.180556 - 1	.665434 - 1	-.132642 - 2	-.861528	1	.197500 - 2	.811408 - 1	.101306
5.2	.180610 - 1	.723165 - 1	-.141020 - 2	-.864745	1	.209237 - 2	.875191 - 1	.101443
5.4	.180654 - 1	.783282 - 1	-.149348 - 2	-.867707	1	.220974 - 2	.941352 - 1	.101574
5.6	.180688 - 1	.845783 - 1	-.157595 - 2	-.870443	1	.232681 - 2	.100989	.101700
5.8	.180714 - 1	.910669 - 1	-.165730 - 2	-.872978	1	.244326 - 2	.108081	.101822
6.0	.180733 - 1	.977940 - 1	-.173720 - 2	-.875332	1	.255877 - 2	.115411	.101938
6.2	.180746 - 1	.104760	-.181535 - 2	-.877523	1	.267303 - 2	.122979	.102050

Z = - 21, A = 45

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.247177	.569519 - 1	-.306036 - 2	.181688	.168076 - 1	.274871	.530992	1
.6	.398211	.147517	-.787798 - 2	.123271	.312435 - 1	.513745	.780578	1
.8	.488230	.266436	-.141153 - 1	.946494 - 1	.448642 - 1	.742918	.105058	2
1.0	.542771	.403413	-.211716 - 1	.774582 - 1	.574372 - 1	.959016	.133511	2
1.2	.577217	.551436	-.286366 - 1	.659200 - 1	.690586 - 1	.116375	1 .163213	2
1.4	.599858	.706106	-.362527 - 1	.576123 - 1	.798758 - 1	.135955	1 .194086	2
1.6	.615257	.864759	-.438631 - 1	.513328 - 1	.900206 - 1	.154853	1 .226106	2
1.8	.626033	.102580	1 -.513741 - 1	.464141 - 1	.995965 - 1	.173237	1 .259283	2
2.0	.633750	.118827	1 -.587290 - 1	.424543 - 1	.108681	.191228	1 .293644	2
2.2	.639381	.135159	1 -.658934 - 1	.391966 - 1	.117332	.208919	1 .329229	2
2.4	.643551	.151540	1 -.720464 - 1	.364688 - 1	.125593	.226377	1 .366090	2
2.6	.646672	.167949	1 -.795751 - 1	.341509 - 1	.133495	.243652	1 .404284	2
2.8	.649027	.184372	1 -.860715 - 1	.321568 - 1	.141062	.260783	1 .443880	2
3.0	.650812	.200802	1 -.923306 - 1	.304230 - 1	.148313	.277798	1 .484950	2
3.2	.652165	.217234	1 -.983496 - 1	.289016 - 1	.155262	.294720	1 .527574	2
3.4	.653188	.233664	1 -.104126	.275559 - 1	.161920	.311566	1 .571842	2
3.6	.653955	.250092	1 -.109660	.263570 - 1	.168296	.328350	1 .617850	2
3.8\	.654522	.266516	1 -.114951	.252823 - 1	.174397	.345083	1 .666702	2
4.0	.654930	.282937	1 -.119998	.243134 - 1	.180228	.361775	1 .715513	2
4.2	.655212	.299355	1 -.124801	.234355 - 1	.185795	.378432	1 .767407	2
4.4	.655393	.315770	1 -.129360	.226363 - 1	.191100	.395061	1 .821519	2
4.6	.655493	.332184	1 -.133676	.219058 - 1	.196148	.411666	1 .877999	2
4.8	.655527	.340596	1 -.137749	.212355 - 1	.200939	.428252	1 .937008	2
5.0	.655507	.365007	1 -.141579	.206183 - 1	.205478	.444823	1 .998724	2
5.2	.655444	.381419	1 -.145167	.200482 - 1	.209765	.461382	1 .106334	3
5.4	.655344	.397831	1 -.148511	.195200 - 1	.213802	.477931	1 .113108	3
5.6	.655215	.414245	1 -.151614	.190293 - 1	.217590	.494472	1 .120216	3
5.8	.655063	.430660	1 -.154475	.185723 - 1	.221131	.511009	1 .127687	3
6.0	.654891	.447079	1 -.157093	.181457 - 1	.224424	.527541	1 .135548	3
6.2	.654702	.463501	1 -.159470	.177465 - 1	.227472	.544072	1 .143831	3

Z = - 21, A = 45

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.742504 - 2	.833735 - 4	-.253831 - 5	-.247871	1	.148157 - 4	.424674 - 3	.196675
.6	.111629 - 1	.321475 - 3	-.972355 - 5	-.356520	1	.398900 - 4	.114994 - 2	.147498
.8	.133643 - 1	.772745 - 3	-.231762 - 4	-.443094	1	.754277 - 4	.219049 - 2	.127156
1.0	.147063 - 1	.146202 - 2	-.434146 - 4	-.511418	1	.120016 - 3	.351572 - 2	.117155
1.2	.155633 - 1	.239853 - 2	-.704355 - 4	-.565275	1	.172613 - 3	.510570 - 2	.111788
1.4	.161342 - 1	.358433 - 2	-.103995 - 3	-.607987	1	.232465 - 3	.694847 - 2	.108766
1.6	.165286 - 1	.501867 - 2	-.143753 - 3	-.642204	1	.298998 - 3	.903712 - 2	.107025
1.8	.168094 - 1	.669997 - 2	-.189344 - 3	-.669944	1	.371747 - 3	.113677 - 1	.106023
2.0	.170145 - 1	.862657 - 2	-.240396 - 3	-.692712	1	.450313 - 3	.139379 - 1	.105464
2.2	.171677 - 1	.107970 - 1	-.296544 - 3	-.711625	1	.534329 - 3	.167465 - 1	.105179
2.4	.172841 - 1	.132101 - 1	-.357432 - 3	-.727515	1	.623451 - 3	.197927 - 1	.105066
2.6	.173739 - 1	.150648 - 1	-.422712 - 3	-.741006	1	.717347 - 3	.230762 - 1	.105063
2.8	.174442 - 1	.187604 - 1	-.492041 - 3	-.752573	1	.815692 - 3	.265966 - 1	.105129
3.0	.174997 - 1	.218963 - 1	-.565082 - 3	-.762577	1	.918165 - 3	.303540 - 1	.105240
3.2	.175440 - 1	.252719 - 1	-.641504 - 3	-.771300	1	.102445 - 2	.343482 - 1	.105379
3.4	.175796 - 1	.288869 - 1	-.720975 - 3	-.778962	1	.113422 - 2	.385793 - 1	.105534
3.6	.176083 - 1	.327410 - 1	-.803171 - 3	-.785738	1	.124717 - 2	.430473 - 1	.105698
3.8	.176316 - 1	.368339 - 1	-.887765 - 3	-.791766	1	.136298 - 2	.477522 - 1	.105866
4.0	.176505 - 1	.411654 - 1	-.974435 - 3	-.797160	1	.148134 - 2	.526941 - 1	.106034
4.2	.176659 - 1	.457354 - 1	-.106286 - 2	-.802012	1	.160193 - 2	.578729 - 1	.106201
4.4	.176785 - 1	.505437 - 1	-.115272 - 2	-.806395	1	.172444 - 2	.632888 - 1	.106364
4.6	.176887 - 1	.555902 - 1	-.124369 - 2	-.810374	1	.184855 - 2	.689419 - 1	.106523
4.8	.176969 - 1	.608749 - 1	-.133545 - 2	-.814000	1	.197394 - 2	.748320 - 1	.106677
5.0	.177035 - 1	.663977 - 1	-.142769 - 2	-.817317	1	.210031 - 2	.809594 - 1	.106826
5.2	.177088 - 1	.721584 - 1	-.152009 - 2	-.820362	1	.222734 - 2	.873240 - 1	.106970
5.4	.177129 - 1	.781572 - 1	-.161233 - 2	-.823165	1	.235470 - 2	.939259 - 1	.107108
5.6	.177161 - 1	.843938 - 1	-.170408 - 2	-.825755	1	.248209 - 2	.100765	.107241
5.8	.177184 - 1	.908684 - 1	-.179505 - 2	-.828153	1	.260920 - 2	.107842	.107368
6.0	.177201 - 1	.975809 - 1	-.188489 - 2	-.830380	1	.273570 - 2	.115156	.107491
6.2	.177212 - 1	.104531	-.197331 - 2	-.832454	1	.286128 - 2	.122707	.107608

Z = - 22, A = 48

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.230213	.553025 - 1	-.312496 - 2	.191664	.169897 - 1	.265131	.513549	1
.6	.381304	.144775	-.813164 - 2	.130093	.320277 - 1	.502466	.752673	1
.8	.472903	.262662	-.146387 - 1	.100025	.462645 - 1	.730814	.101341	2
1.0	.528790	.398613	-.220129 - 1	.819874 - 1	.594160 - 1	.946161	.128971	2
1.2	.564197	.545588	-.298226 - 1	.698881 - 1	.715739 - 1	.115007	.157962	2
1.4	.587498	.699175	-.377966 - 1	.611789 - 1	.828914 - 1	.134495	.188248	2
1.6	.603349	.856708	-.457708 - 1	.545972 - 1	.935072 - 1	.153294	.219821	2
1.8	.614433	.101659	1 -.536467 - 1	.494422 - 1	.103531	.171570	.252707	2
2.0	.622362	.117787	1 -.613654 - 1	.452925 - 1	.113044	.189449	.286951	2
2.2	.628137	.133998	1 -.688909 - 1	.418788 - 1	.122109	.207022	.322615	2
2.4	.632404	.150255	1 -.762018 - 1	.390203 - 1	.130770	.224359	.359771	2
2.6	.635588	.166538	1 -.832845 - 1	.365915 - 1	.139062	.241511	.398505	2
2.8	.637982	.182833	1 -.901309 - 1	.345021 - 1	.147010	.258515	.438911	2
3.0	.639787	.199133	1 -.967361 - 1	.326854 - 1	.154634	.275402	.481094	2
3.2	.641148	.215434	1 -.103097	.310913 - 1	.161949	.292193	.525171	2
3.4	.642169	.231732	1 -.109212	.296813 - 1	.168966	.308908	.571271	2
3.6	.642927	.248027	1 -.115080	.284252 - 1	.175696	.325560	.619535	2
3.8	.643479	.264318	1 -.120701	.272991 - 1	.182145	.342160	.670120	2
4.0	.643868	.280604	1 -.126075	.262840 - 1	.188320	.358718	.723198	2
4.2	.644129	.296887	1 -.131201	.253642 - 1	.194225	.375241	.778960	2
4.4	.644286	.313167	1 -.136079	.245269 - 1	.199865	.391735	.837618	2
4.6	.644360	.329445	1 -.140711	.237615 - 1	.205242	.408205	.899407	2
4.8	.644367	.345721	1 -.145097	.230593 - 1	.210360	.424656	.964587	2
5.0	.644319	.361996	1 -.149236	.224127 - 1	.215221	.441091	.103345	3
5.2	.644227	.378270	1 -.153129	.218154 - 1	.219826	.457514	.110632	3
5.4	.644099	.394546	1 -.156776	.212621 - 1	.224178	.473928	.118357	3
5.6	.643942	.410823	1 -.160178	.207480 - 1	.228278	.490334	.126561	3
5.8	.643760	.427102	1 -.163334	.202693 - 1	.232126	.506735	.135291	3
6.0	.643559	.443384	1 -.166245	.198223 - 1	.235725	.523132	.144599	3
6.2	.643342	.459669	1 -.168911	.194042 - 1	.239074	.539528	.154547	3

Z = - 22, A = 48

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.696360 - 2	.826427 - 4	-.264597 - 5	-.235033 1	.153599 - 4	.420173 - 3	.207105
.6	.106988 - 1	.321830 - 3	-.102388 - 4	-.338883 1	.418125 - 4	.115017 - 2	.155172
.8	.129284 - 1	.776944 - 3	-.245158 - 4	-.421432 1	.794470 - 4	.220117 - 2	.133759
1.0	.142958 - 1	.147331 - 2	-.460413 - 4	-.486494 1	.126747 - 3	.354147 - 2	.123245
1.2	.151716 - 1	.242026 - 2	-.748204 - 4	-.537737 1	.182598 - 3	.515040 - 2	.117607
1.4	.157559 - 1	.361981 - 2	-.110600 - 3	-.578352 1	.246197 - 3	.701558 - 2	.114432
1.6	.161597 - 1	.507115 - 2	-.153027 - 3	-.610874 1	.316939 - 3	.912981 - 2	.112604
1.8	.164473 - 1	.677260 - 2	-.201717 - 3	-.637231 1	.394336 - 3	.114890 - 1	.111552
2.0	.166574 - 1	.872244 - 2	-.256284 - 3	-.658857 1	.477967 - 3	.140907 - 1	.110965
2.2	.168141 - 1	.109191 - 1	-.316348 - 3	-.676819 1	.567454 - 3	.169337 - 1	.110665
2.4	.169331 - 1	.133615 - 1	-.381537 - 3	-.691906 1	.662438 - 3	.200172 - 1	.110547
2.6	.170249 - 1	.160484 - 1	-.451490 - 3	-.704715 1	.762574 - 3	.233407 - 1	.110543
2.8	.170966 - 1	.189791 - 1	-.525852 - 3	-.715695 1	.867526 - 3	.269041 - 1	.110612
3.0	.171531 - 1	.221529 - 1	-.604272 - 3	-.725190 1	.976961 - 3	.307071 - 1	.110728
3.2	.171981 - 1	.255694 - 1	-.686407 - 3	-.733469 1	.109055 - 2	.347498 - 1	.110874
3.4	.172341 - 1	.292281 - 1	-.771915 - 3	-.740740 1	.120797 - 2	.390322 - 1	.111036
3.6	.172632 - 1	.331288 - 1	-.860458 - 3	-.747170 1	.132888 - 2	.435542 - 1	.111208
3.8	.172866 - 1	.372711 - 1	-.951700 - 3	-.752890 1	.145297 - 2	.483159 - 1	.111384
4.0	.173057 - 1	.416549 - 1	-.104531 - 2	-.758008 1	.157991 - 2	.533174 - 1	.111561
4.2	.173211 - 1	.462799 - 1	-.114094 - 2	-.762611 1	.170937 - 2	.585586 - 1	.111736
4.4	.173336 - 1	.511461 - 1	-.123828 - 2	-.766770 1	.184103 - 2	.640397 - 1	.111907
4.6	.173436 - 1	.562534 - 1	-.133698 - 2	-.770545 1	.197456 - 2	.697607 - 1	.112074
4.8	.173517 - 1	.616016 - 1	-.143673 - 2	-.773985 1	.210963 - 2	.757217 - 1	.112235
5.0	.173581 - 1	.671907 - 1	-.153718 - 2	-.777131 1	.224593 - 2	.819226 - 1	.112391
5.2	.173632 - 1	.730206 - 1	-.163801 - 2	-.780019 1	.238312 - 2	.883636 - 1	.112542
5.4	.173671 - 1	.790913 - 1	-.173889 - 2	-.782679 1	.252088 - 2	.950446 - 1	.112687
5.6	.173700 - 1	.854027 - 1	-.183949 - 2	-.785135 1	.265888 - 2	.101966	.112826
5.8	.173721 - 1	.919549 - 1	-.193949 - 2	-.787410 1	.279680 - 2	.109127	.112960
6.0	.173734 - 1	.987478 - 1	-.203855 - 2	-.789522 1	.293431 - 2	.116529	.113088
6.2	.173742 - 1	.105781	-.213635 - 2	-.791489 1	.307109 - 2	.124170	.113212

Z = - 23, A = 51

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.214351	.537038 - 1	-.318389 - 2	.201788	.171354 - 1	.255691	.497960	1
.6	.365137	.142105	-.837564 - 2	.137006	.327637 - 1	.491435	.727452	1
.8	.458150	.258985	-.151493 - 1	.105479	.476128 - 1	.718960	.979750	1
1.0	.515308	.393939	-.228391 - 1	.865907 - 1	.613411 - 1	.933577	.124863	2
1.2	.551635	.539896	-.309912 - 1	.739284 - 1	.740339 - 1	.113669	.153223	2
1.4	.575572	.692433	-.393211 - 1	.648169 - 1	.858499 - 1	.133069	.183003	2
1.6	.591858	.848878	-.476568 - 1	.579323 - 1	.969346 - 1	.151770	.214212	2
1.8	.603240	.100764	1 -.558957 - 1	.525407 - 1	.107403	.169942	.246895	2
2.0	.611372	.116776	1 -.639760 - 1	.482009 - 1	.117343	.187711	.281120	2
2.2	.617284	.132868	1 -.718607 - 1	.446309 - 1	.126819	.205170	.316971	2
2.4	.621641	.149004	1 -.795274 - 1	.416417 - 1	.135878	.222389	.354551	2
2.6	.624884	.165163	1 -.869623 - 1	.391019 - 1	.144558	.239419	.393975	2
2.8	.627312	.181334	1 -.941571 - 1	.369170 - 1	.152885	.256300	.435374	2
3.0	.629135	.197508	1 -.101107	.350174 - 1	.160879	.273061	.478895	2
3.2	.630500	.213680	1 -.107808	.333506 - 1	.168558	.289725	.524702	2
3.4	.631516	.229849	1 -.114260	.318762 - 1	.175933	.306312	.572977	2
3.6	.632262	.246014	1 -.120462	.305628 - 1	.183015	.322834	.623924	2
3.8	.632797	.262173	1 -.126412	.293854 - 1	.189811	.339303	.677773	2
4.0	.633165	.278328	1 -.132111	.283240 - 1	.196328	.355730	.734779	2
4.2	.633402	.294479	1 -.137560	.273622 - 1	.202570	.372121	.795231	2
4.4	.633533	.310626	1 -.142758	.264868 - 1	.208543	.388482	.859453	2
4.6	.633579	.326770	1 -.147706	.256866 - 1	.214250	.404820	.927813	2
4.8	.633558	.342912	1 -.152404	.249524 - 1	.219694	.421138	.100073	3
5.0	.633481	.359053	1 -.156852	.242764 - 1	.224876	.437441	.107868	3
5.2	.633359	.375194	1 -.161051	.236519 - 1	.229800	.453730	.116220	3
5.4	.633201	.391335	1 -.165002	.230734 - 1	.234467	.470011	.125194	3
5.6	.633014	.407478	1 -.168703	.225360 - 1	.238879	.486283	.134860	3
5.8	.632802	.423622	1 -.172157	.220355 - 1	.243036	.502551	.145305	3
6.0	.632571	.439770	1 -.175362	.215683 - 1	.246940	.518816	.156625	3
6.2	.632325	.455921	1 -.178320	.211312 - 1	.250591	.535078	.168939	3

Z = - 23, A = 51

p	$\overline{F}$	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.214351	.537038 - 1	-.318389 - 2	.201788	.171354 - 1	.255691	.497960	1
.6	.365137	.142105	-.837564 - 2	.137006	.327637 - 1	.491435	.727452	1
.8	.458150	.258985	-.151493 - 1	.105479	.476128 - 1	.718960	.979750	1
1.0	.515308	.393939	-.228391 - 1	.865907 - 1	.613411 - 1	.933577	.124863	2
1.2	.551635	.539896	-.309912 - 1	.739284 - 1	.740339 - 1	.113669	.153223	2
1.4	.575572	.692433	-.393211 - 1	.648169 - 1	.858499 - 1	.133069	.183003	2
1.6	.591858	.848878	-.476568 - 1	.579323 - 1	.969346 - 1	.151770	.214212	2
1.8	.603240	.100764	1 -.558957 - 1	.525407 - 1	.107403	.169942	.246895	2
2.0	.611372	.116776	1 -.639760 - 1	.482009 - 1	.117343	.187711	.281120	2
2.2	.617284	.132868	1 -.718607 - 1	.446309 - 1	.126819	.205170	.316971	2
2.4	.621641	.149004	1 -.795274 - 1	.416417 - 1	.135878	.222389	.354551	2
2.6	.624884	.165163	1 -.869623 - 1	.391019 - 1	.144558	.239419	.393975	2
2.8	.627312	.181334	1 -.941571 - 1	.369170 - 1	.152885	.256300	.435374	2
3.0	.629135	.197508	1 -.101107	.350174 - 1	.160879	.273061	.478895	2
3.2	.630500	.213680	1 -.107808	.333506 - 1	.168558	.289725	.524702	2
3.4	.631516	.229849	1 -.114260	.318762 - 1	.175933	.306312	.572977	2
3.6	.632262	.246014	1 -.120462	.305628 - 1	.183015	.322834	.623924	2
3.8	.632797	.262173	1 -.126412	.293854 - 1	.189811	.339303	.677773	2
4.0	.633165	.278328	1 -.132111	.283240 - 1	.196328	.355730	.734779	2
4.2	.633402	.294479	1 -.137560	.273622 - 1	.202570	.372121	.795231	2
4.4	.633533	.310626	1 -.142758	.264868 - 1	.208543	.388482	.859453	2
4.6	.633579	.326770	1 -.147706	.256866 - 1	.214250	.404820	.927813	2
4.8	.633558	.342912	1 -.152404	.249524 - 1	.219694	.421138	.100073	3
5.0	.633481	.359053	1 -.156852	.242764 - 1	.224876	.437441	.107868	3
5.2	.633359	.375194	1 -.161051	.236519 - 1	.229800	.453730	.116220	3
5.4	.633201	.391335	1 -.165002	.230734 - 1	.234467	.470011	.125194	3
5.6	.633014	.407478	1 -.168703	.225360 - 1	.238879	.486283	.134860	3
5.8	.632802	.423622	1 -.172157	.220355 - 1	.243036	.502551	.145305	3
6.0	.632571	.439770	1 -.175362	.215683 - 1	.246940	.518816	.156625	3
6.2	.632325	.455921	1 -.178320	.211312 - 1	.250591	.535078	.168939	3

Z = - 23, A = 51

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.653008 - 2	.818123 - 4	-.274836 - 5	-.223249	1	.158694 - 4	.415151 - 3	.217668
.6	.102548 - 1	.321790 - 3	-.107434 - 4	-.322740	1	.436813 - 4	.114894 - 2	.162916
.8	.125086 - 1	.780220 - 3	-.258416 - 4	-.401624	1	.834027 - 4	.220917 - 2	.140418
1.0	.138991 - 1	.148288 - 2	-.486549 - 4	-.463714	1	.133411 - 3	.356304 - 2	.129386
1.2	.147924 - 1	.243923 - 2	-.791969 - 4	-.512575	1	.192517 - 3	.518918 - 2	.123473
1.4	.153893 - 1	.365124 - 2	-.117206 - 3	-.551278	1	.259870 - 3	.707473 - 2	.120146
1.6	.158021 - 1	.511800 - 2	-.162315 - 3	-.582256	1	.334830 - 3	.921225 - 2	.118229
1.8	.160961 - 1	.683776 - 2	-.214122 - 3	-.607353	1	.416886 - 3	.115975 - 1	.117126
2.0	.163108 - 1	.880872 - 2	-.272227 - 3	-.627940	1	.505600 - 3	.142279 - 1	.116511
2.2	.164708 - 1	.110293 - 1	-.336233 - 3	-.645034	1	.600577 - 3	.171022 - 1	.116197
2.4	.165923 - 1	.134982 - 1	-.405756 - 3	-.659391	1	.701446 - 3	.202196 - 1	.116072
2.6	.166858 - 1	.162144 - 1	-.480421 - 3	-.671577	1	.807850 - 3	.235796 - 1	.116068
2.8	.167588 - 1	.191770 - 1	-.559860 - 3	-.682022	1	.919443 - 3	.271819 - 1	.116140
3.0	.168162 - 1	.223853 - 1	-.643711 - 3	-.691054	1	.103588 - 2	.310265 - 1	.116262
3.2	.168619 - 1	.258390 - 1	-.731618 - 3	-.698928	1	.115682 - 2	.351132 - 1	.116414
3.4	.168983 - 1	.295374 - 1	-.823229 - 3	-.705843	1	.128193 - 2	.394421 - 1	.116584
3.6	.169276 - 1	.334803 - 1	-.918193 - 3	-.711957	1	.141087 - 2	.440132 - 1	.116764
3.8	.169512 - 1	.376675 - 1	-.101616 - 2	-.717397	1	.154330 - 2	.488265 - 1	.116948
4.0	.169703 - 1	.420987 - 1	-.111680 - 2	-.722263	1	.167889 - 2	.538820 - 1	.117133
4.2	.169857 - 1	.467737 - 1	-.121974 - 2	-.726640	1	.181730 - 2	.591799 - 1	.117316
4.4	.169980 - 1	.516924 - 1	-.132467 - 2	-.730594	1	.195820 - 2	.647201 - 1	.117495
4.6	.170080 - 1	.568547 - 1	-.143123 - 2	-.734183	1	.210125 - 2	.705028 - 1	.117669
4.8	.170158 - 1	.622605 - 1	-.153908 - 2	-.737453	1	.224611 - 2	.765279 - 1	.117839
5.0	.170221 - 1	.679097 - 1	-.164788 - 2	-.740444	1	.239246 - 2	.827955 - 1	.118002
5.2	.170269 - 1	.738023 - 1	-.175730 - 2	-.743190	1	.253995 - 2	.893056 - 1	.118160
5.4	.170305 - 1	.799383 - 1	-.186699 - 2	-.745718	1	.268824 - 2	.960584 - 1	.118311
5.6	.170331 - 1	.863175 - 1	-.197662 - 2	-.748053	1	.283701 - 2	.103054	.118457
5.8	.170349 - 1	.929400 - 1	-.208584 - 2	-.750215	1	.298592 - 2	.110292	.118597
6.0	.170360 - 1	.998057 - 1	-.219433 - 2	-.752223	1	.313462 - 2	.117773	.118731
6.2	.170365 - 1	.106915	-.230173 - 2	-.754093	1	.328279 - 2	.125496	.118860

Z = - 24, A = 52

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₁	g ₁	tanΔ ₁	
.4	.199605	.521634 - 1	-.324334 - 2	.212064	.172506 - 1	.246584	.484010	1
.6	.349815	.139529	-.862673 - 2	.144010	.334626 - 1	.480723	.704591	1
.8	.444122	.255446	-.156792 - 1	.111011	.489284 - 1	.707457	.949175	1
1.0	.502499	.389453	-.237010 - 1	.912680 - 1	.632427 - 1	.921394	.121135	2
1.2	.539723	.534446	-.322158 - 1	.780408 - 1	.764830 - 1	.112377	.148935	2
1.4	.564283	.685984	-.409252 - 1	.685258 - 1	.888130 - 1	.131693	.178281	2
1.6	.580996	.841392	-.496495 - 1	.613378 - 1	.100385	.150302	.209202	2
1.8	.592669	.999079	-.582811 - 1	.557092 - 1	.111320	.168374	.241763	2
2.0	.600999	.115809	1 -.667562 - 1	.511789 - 1	.121710	.186037	.276059	2
2.2	.607044	.131787	1 -.750361 - 1	.474524 - 1	.131623	.203386	.312204	2
2.4	.611489	.147806	1 -.830977 - 1	.443324 - 1	.141111	.220490	.350333	2
2.6	.614786	.163847	1 -.909270 - 1	.416814 - 1	.150211	.237402	.390602	2
2.8	.617246	.179896	1 -.985154 - 1	.394009 - 1	.158953	.254162	.433187	2
3.0	.619083	.195947	1 -.105858	.374182 - 1	.167357	.270800	.478287	2
3.2	.620450	.211995	1 -.112952	.356785 - 1	.175442	.287340	.526128	2
3.4	.621459	.228038	1 -.119795	.341397 - 1	.183220	.303800	.576965	2
3.6	.622190	.244075	1 -.126387	.327690 - 1	.190702	.320194	.631087	2
3.8	.622706	.260106	1 -.132728	.315402 - 1	.197896	.336535	.688826	2
4.0	.623051	.276132	1 -.138817	.304324 - 1	.204810	.352831	.750555	2
4.2	.623262	.292152	1 -.144655	.294286 - 1	.211448	.369091	.816705	2
4.4	.623365	.308168	1 -.150243	.285150 - 1	.217815	.385321	.887774	2
4.6	.623383	.324181	1 -.155580	.276798 - 1	.223916	.401527	.964334	2
4.8	.623331	.340191	1 -.160668	.269136 - 1	.229753	.417712	.104705	3
5.0	.623223	.356199	1 -.165505	.262081 - 1	.235328	.433881	.113671	3
5.2	.623070	.372207	1 -.170094	.255564 - 1	.240645	.450038	.123422	3
5.4	.622881	.388214	1 -.174434	.249526 - 1	.245705	.466184	.134068	3
5.6	.622662	.404223	1 -.178526	.243918 - 1	.250509	.482323	.145738	3
5.8	.622419	.420233	1 -.182370	.238694 - 1	.255058	.498456	.158590	3
6.0	.622157	.436246	1 -.185966	.233818 - 1	.259355	.514586	.172812	3
6.2	.621880	.452263	1 -.189315	.229256 - 1	.263400	.530714	.188639	3

Z = - 24, A = 52

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.612403 - 2	.798937 - 4	-.281509 - 5	-.212388	1	.161428 - 4	.404601 - 3	.228368
.6	.983202 - 2	.317411 - 3	-.111180 - 4	-.307903	1	.449364 - 4	.113219 - 2	.170733
.8	.121065 - 1	.772957 - 3	-.268678 - 4	-.383438	1	.862271 - 4	.218727 - 2	.147134
1.0	.135184 - 1	.147243 - 2	-.507219 - 4	-.442811	1	.138309 - 3	.353641 - 2	.135578
1.2	.144282 - 1	.242526 - 2	-.827071 - 4	-.489493	1	.199939 - 3	.515776 - 2	.129388
1.4	.150370 - 1	.363335 - 2	-.122561 - 3	-.526447	1	.270229 - 3	.703821 - 2	.125906
1.6	.154583 - 1	.509572 - 2	-.169911 - 3	-.556012	1	.348519 - 3	.917013 - 2	.123901
1.8	.157584 - 1	.681055 - 2	-.224348 - 3	-.579956	1	.434286 - 3	.115491 - 1	.122747
2.0	.159774 - 1	.877599 - 2	-.285466 - 3	-.599592	1	.527084 - 3	.141727 - 1	.122103
2.2	.161407 - 1	.109904 - 1	-.352863 - 3	-.615892	1	.626512 - 3	.170395 - 1	.121774
2.4	.162644 - 1	.134525 - 1	-.426151 - 3	-.629580	1	.732196 - 3	.201486 - 1	.121643
2.6	.163596 - 1	.161612 - 1	-.504950 - 3	-.641197	1	.843777 - 3	.234995 - 1	.121638
2.8	.164338 - 1	.191156 - 1	-.588888 - 3	-.651153	1	.960905 - 3	.270920 - 1	.121714
3.0	.164920 - 1	.223150 - 1	-.677602 - 3	-.659761	1	.108324 - 2	.309260 - 1	.121841
3.2	.165382 - 1	.257590 - 1	-.770733 - 3	-.667265	1	.121043 - 2	.350013 - 1	.121999
3.4	.165751 - 1	.294470 - 1	-.867926 - 3	-.673854	1	.134214 - 2	.393181 - 1	.122177
3.6	.166046 - 1	.333788 - 1	-.968828 - 3	-.679680	1	.147803 - 2	.438762 - 1	.122365
3.8	.166283 - 1	.375541 - 1	-.107309 - 2	-.684863	1	.161777 - 2	.486758 - 1	.122557
4.0	.166473 - 1	.419726 - 1	-.118037 - 2	-.689499	1	.176102 - 2	.537169 - 1	.122750
4.2	.166626 - 1	.466342 - 1	-.129032 - 2	-.693669	1	.190744 - 2	.589995 - 1	.122941
4.4	.166748 - 1	.515386 - 1	-.140259 - 2	-.697436	1	.205670 - 2	.645236 - 1	.123128
4.6	.166846 - 1	.566859 - 1	-.151684 - 2	-.700854	1	.220845 - 2	.702894 - 1	.123311
4.8	.166923 - 1	.620760 - 1	-.163274 - 2	-.703970	1	.236237 - 2	.762968 - 1	.123488
5.0	.166982 - 1	.677086 - 1	-.174993 - 2	-.706819	1	.251811 - 2	.825459 - 1	.123658
5.2	.167028 - 1	.735839 - 1	-.186808 - 2	-.709434	1	.267534 - 2	.890368 - 1	.123823
5.4	.167061 - 1	.797017 - 1	-.198685 - 2	-.711842	1	.283372 - 2	.957695 - 1	.123981
5.6	.167084 - 1	.860620 - 1	-.210589 - 2	-.714065	1	.299291 - 2	.102744	.124134
5.8	.167099 - 1	.926648 - 1	-.222488 - 2	-.716125	1	.315259 - 2	.109961	.124280
6.0	.167107 - 1	.995100 - 1	-.234346 - 2	-.718038	1	.331240 - 2	.117419	.124420
6.2	.167109 - 1	.106598	-.246130 - 2	-.719818	1	.347202 - 2	.125119	.124555

Z = - 25, A = 55

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₁	g ₁	tanΔ ₁	
.4	.185756	.506615 - 1	-.329138 - 2	.222496	.173300 - 1	.237728	.471517	1
.6	.335034	.136996	-.885167 - 2	.151108	.341077 - 1	.470176	.683815	1
.8	.430450	.251956	-.161645 - 1	.116622	.501779 - 1	.696088	.921326	1
1.0	.489955	.385025	-.244965 - 1	.960191 - 1	.650652 - 1	.909336	.117743	2
1.2	.528025	.529060	-.333485 - 1	.822248 - 1	.788372 - 1	.111097	1 .145047	2
1.4	.553178	.679609	-.424087 - 1	.723054 - 1	.916618 - 1	.130330	1 .174024	2
1.6	.570297	.833990	-.514893 - 1	.648133 - 1	.103698	.148849	1 .204725	2
1.8	.582247	.990613	-.604784 - 1	.589473 - 1	.115073	.166823	1 .237242	2
2.0	.590764	.114853	1 -.693095 - 1	.542263 - 1	.125884	.184382	1 .271698	2
2.2	.596934	.130718	1 -.779429 - 1	.503431 - 1	.136202	.201621	1 .308244	2
2.4	.601459	.146622	1 -.863545 - 1	.470921 - 1	.146082	.218612	1 .347054	2
2.6	.604806	.162545	1 -.945301 - 1	.443299 - 1	.155564	.235409	1 .388333	2
2.8	.607292	.178475	1 -.102461	.419538 - 1	.164677	.252050	1 .432314	2
3.0	.609140	.194404	1 -.110142	.398880 - 1	.173446	.268568	1 .479266	2
3.2	.610506	.210330	1 -.117571	.380754 - 1	.181887	.284986	1 .529494	2
3.4	.611504	.226249	1 -.124745	.364721 - 1	.190016	.301322	1 .583352	2
3.6	.612219	.242161	1 -.131665	.350440 - 1	.197844	.317592	1 .641246	2
3.8	.612712	.258067	1 -.138330	.337637 - 1	.205379	.333807	1 .703650	2
4.0	.613033	.273965	1 -.144740	.326096 - 1	.212628	.349978	1 .771110	2
4.2	.613216	.289858	1 -.150896	.315639 - 1	.219598	.366111	1 .844272	2
4.4	.613289	.305747	1 -.156798	.306121 - 1	.226294	.382213	1 .923892	2
4.6	.613276	.321631	1 -.162446	.297420 - 1	.232718	.398291	1 .101087	3
4.8	.613192	.337512	1 -.167842	.289438 - 1	.238875	.414349	1 .110628	3
5.0	.613052	.353392	1 -.172985	.282088 - 1	.244768	.430389	1 .121143	3
5.2	.612867	.369270	1 -.177876	.275299 - 1	.250399	.446417	1 .132788	3
5.4	.612645	.385148	1 -.182516	.269010 - 1	.255769	.462435	1 .145757	3
5.6	.612394	.401028	1 -.186904	.263167 - 1	.260880	.478445	1 .160292	3
5.8	.612119	.416909	1 -.191042	.257726 - 1	.265735	.494450	1 .176696	3
6.0	.611825	.432792	1 -.194930	.252647 - 1	.270334	.510452	1 .195355	3
6.2	.611516	.448679	1 -.198567	.247894 - 1	.274678	.526452	1 .216771	3

Z = - 25, A = 55

p	$\bar{F}$	i_2	g_2	$\tan\Delta_2$		i_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.574149 - 2	.789742 - 4	-.290765 - 5	-.202338	1	.165906 - 4	.399112 - 3	.239211
.6	.942562 - 2	.316940 - 3	-.116017 - 4	-.294215	1	.467061 - 4	.112936 - 2	.178624
.8	.117168 - 1	.775190 - 3	-.281649 - 4	-.366679	1	.900638 - 4	.219220 - 2	.153907
1.0	.131478 - 1	.148006 - 2	-.533043 - 4	-.423558	1	.144847 - 3	.355316 - 2	.141821
1.2	.140728 - 1	.244108 - 2	-.870560 - 4	-.468240	1	.209732 - 3	.518965 - 2	.135352
1.4	.146927 - 1	.366010 - 2	-.129149 - 3	-.503589	1	.283782 - 3	.708810 - 2	.131713
1.6	.151219 - 1	.513605 - 2	-.179196 - 3	-.531856	1	.366301 - 3	.924063 - 2	.129619
1.8	.154277 - 1	.686704 - 2	-.236773 - 3	-.554741	1	.456743 - 3	.116427 - 1	.128413
2.0	.156509 - 1	.885114 - 2	-.301456 - 3	-.573504	1	.554642 - 3	.142917 - 1	.127741
2.2	.158170 - 1	.110867 - 1	-.372831 - 3	-.589077	1	.659585 - 3	.171861 - 1	.127397
2.4	.159429 - 1	.135722 - 1	-.450494 - 3	-.602151	1	.771184 - 3	.203251 - 1	.127260
2.6	.160396 - 1	.163067 - 1	-.534053 - 3	-.613245	1	.889069 - 3	.237082 - 1	.127254
2.8	.161148 - 1	.192893 - 1	-.623124 - 3	-.622752	1	.101288 - 2	.273351 - 1	.127333
3.0	.161738 - 1	.225191 - 1	-.717333 - 3	-.630970	1	.114226 - 2	.312057 - 1	.127465
3.2	.162205 - 1	.259958 - 1	-.816308 - 3	-.638134	1	.127685 - 2	.353198 - 1	.127630
3.4	.162576 - 1	.297188 - 1	-.919684 - 3	-.644425	1	.141632 - 2	.396776 - 1	.127816
3.6	.162873 - 1	.336878 - 1	-.102710 - 2	-.649986	1	.156031 - 2	.442789 - 1	.128012
3.8	.163110 - 1	.379026 - 1	-.113819 - 2	-.654933	1	.170847 - 2	.491238 - 1	.128212
4.0	.163300 - 1	.423628 - 1	-.125261 - 2	-.659358	1	.186046 - 2	.542125 - 1	.128414
4.2	.163452 - 1	.470682 - 1	-.136999 - 2	-.663337	1	.201593 - 2	.595448 - 1	.128613
4.4	.163573 - 1	.520189 - 1	-.148999 - 2	-.666932	1	.217453 - 2	.651208 - 1	.128808
4.6	.163668 - 1	.572146 - 1	-.161225 - 2	-.670195	1	.233593 - 2	.709407 - 1	.128998
4.8	.163742 - 1	.626552 - 1	-.173641 - 2	-.673168	1	.249977 - 2	.770044 - 1	.129183
5.0	.163799 - 1	.683406 - 1	-.186213 - 2	-.675887	1	.266570 - 2	.833120 - 1	.129361
5.2	.163842 - 1	.742709 - 1	-.198906 - 2	-.678382	1	.283338 - 2	.898636 - 1	.129532
5.4	.163872 - 1	.804459 - 1	-.211684 - 2	-.680679	1	.300247 - 2	.966592 - 1	.129698
5.6	.163892 - 1	.868656 - 1	-.224513 - 2	-.682801	1	.317262 - 2	.103699	.129856
5.8	.163904 - 1	.935301 - 1	-.237358 - 2	-.684767	1	.334348 - 2	.110983	.130009
6.0	.163908 - 1	.100439	-.250184 - 2	-.686591	1	.351471 - 2	.118510	.130155
6.2	.163907 - 1	.107593	-.262956 - 2	-.688290	1	.368595 - 2	.126282	.130296

Z = - 26, A = 56

p	F_0	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.172900	.492150 - 1	-.334000 - 2	.233089	.173834 - 1	.229196	.460329	1
.6	.321038	.134555	-.908343 - 2	.158300	.347196 - 1	.459942	.664895	1
.8	.417463	.248603	-.166683 - 1	.122312	.513985 - 1	.685068	.895898	1
1.0	.478056	.380783	-.253264 - 1	.100844	.668681 - 1	.897678	.114650	2
1.2	.516954	.523916	-.345353 - 1	.864804 - 1	.811843 - 1	.109863	.141514	2
1.4	.542690	.673528	-.439689 - 1	.761553 - 1	.945186 - 1	.129019	.170181	2
1.6	.560210	.826935	-.534315 - 1	.683583 - 1	.107037	.147451	.200727	2
1.8	.572433	.982546	-.628065 - 1	.622545 - 1	.118872	.165331	.233272	2
2.0	.581133	.113942 1	-.720251 - 1	.573425 - 1	.130126	.182790	.267975	2
2.2	.587425	.129699 1	-.810459 - 1	.533024 - 1	.140875	.199925	.305025	2
2.4	.592028	.145492 1	-.898445 - 1	.499201 - 1	.151175	.216807	.344650	2
2.6	.595421	.161302 1	-.984061 - 1	.470465 - 1	.161069	.233491	.387112	2
2.8	.597932	.177116 1	-.106722	.445746 - 1	.170588	.250018	.432716	2
3.0	.599787	.192928 1	-.114787	.424256 - 1	.179757	.266418	.481818	2
3.2	.601149	.208734 1	-.122599	.405400 - 1	.188596	.282716	.534831	2
3.4	.602135	.224533 1	-.130156	.388722 - 1	.197118	.298931	.592238	2
3.6	.602831	.240323 1	-.137457	.373866 - 1	.205337	.315078	.654609	2
3.8	.603301	.256106 1	-.144503	.360549 - 1	.213260	.331170	.722616	2
4.0	.603594	.271880 1	-.151294	.348543 - 1	.220897	.347215	.797060	2
4.2	.603748	.287648 1	-.157830	.337665 - 1	.228253	.363222	.878903	2
4.4	.603790	.303411 1	-.164112	.327764 - 1	.235333	.379199	.969309	2
4.6	.603744	.319169 1	-.170140	.318714 - 1	.242141	.395149	.106970	3
4.8	.603628	.334923 1	-.175915	.310410 - 1	.248682	.411079	.118185	3
5.0	.603454	.350675 1	-.181438	.302765 - 1	.254958	.426991	.130793	3
5.2	.603235	.366425 1	-.186709	.295703 - 1	.260971	.442891	.145074	3
5.4	.602979	.382175 1	-.191729	.289161 - 1	.266724	.458779	.161387	3
5.6	.602694	.397925 1	-.196498	.283084 - 1	.272218	.474660	.180198	3
5.8	.602385	.413676 1	-.201017	.277424 - 1	.277455	.490535	.202131	3
6.0	.602058	.429430 1	-.205286	.272140 - 1	.282437	.506407	.228038	3
6.2	.601716	.445187 1	-.209305	.267197 - 1	.287164	.522277	.259107	3

Z = - 26, A = 56

P	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.538339 - 2	.770895 - 4	-.296504 - 5	-.193005	1	.168102 - 4	.388744 - 3	.250203
.6	.903867 - 2	.312532 - 3	-.119539 - 4	-.281544	1	.478676 - 4	.111246 - 2	.186590
.8	.113438 - 1	.767767 - 3	-.291555 - 4	-.351182	1	.927670 - 4	.216977 - 2	.160739
1.0	.127924 - 1	.146925 - 2	-.553237 - 4	-.405765	1	.149604 - 3	.352555 - 2	.148116
1.2	.137315 - 1	.242648 - 2	-.905079 - 4	-.448605	1	.216996 - 3	.515677 - 2	.141365
1.4	.143619 - 1	.364123 - 2	-.134436 - 3	-.482475	1	.293967 - 3	.704954 - 2	.137569
1.6	.147988 - 1	.511237 - 2	-.186715 - 3	-.509548	1	.379802 - 3	.919582 - 2	.135384
1.8	.151100 - 1	.683792 - 2	-.246913 - 3	-.531458	1	.473939 - 3	.115909 - 1	.134127
2.0	.153370 - 1	.881591 - 2	-.314601 - 3	-.549416	1	.575906 - 3	.142323 - 1	.133425
2.2	.155060 - 1	.110446 - 1	-.389358 - 3	-.564318	1	.685283 - 3	.171182 - 1	.133066
2.4	.156339 - 1	.135226 - 1	-.470776 - 3	-.576827	1	.801678 - 3	.202480 - 1	.132923
2.6	.157320 - 1	.162488 - 1	-.558459 - 3	-.587439	1	.924719 - 3	.236209 - 1	.132917
2.8	.158082 - 1	.192222 - 1	-.652021 - 3	-.596532	1	.105404 - 2	.272369 - 1	.132998
3.0	.158679 - 1	.224421 - 1	-.751083 - 3	-.604393	1	.118929 - 2	.310956 - 1	.133136
3.2	.159150 - 1	.259080 - 1	-.855273 - 3	-.611243	1	.133011 - 2	.351970 - 1	.133308
3.4	.159523 - 1	.296194 - 1	-.964222 - 3	-.617259	1	.147616 - 2	.395412 - 1	.133501
3.6	.159821 - 1	.335760 - 1	-.107757 - 2	-.622576	1	.162708 - 2	.441281 - 1	.133705
3.8	.160058 - 1	.377774 - 1	-.119495 - 2	-.627306	1	.178253 - 2	.489577 - 1	.133914
4.0	.160247 - 1	.422235 - 1	-.131600 - 2	-.631536	1	.194215 - 2	.540301 - 1	.134123
4.2	.160398 - 1	.469139 - 1	-.144037 - 2	-.635340	1	.210561 - 2	.593453 - 1	.134331
4.4	.160516 - 1	.518487 - 1	-.156771 - 2	-.638777	1	.227255 - 2	.649034 - 1	.134534
4.6	.160609 - 1	.570276 - 1	-.169766 - 2	-.641896	1	.244262 - 2	.707043 - 1	.134732
4.8	.160681 - 1	.624506 - 1	-.182987 - 2	-.644738	1	.261549 - 2	.767483 - 1	.134924
5.0	.160735 - 1	.681175 - 1	-.196397 - 2	-.647336	1	.279080 - 2	.830353 - 1	.135109
5.2	.160774 - 1	.740284 - 1	-.209964 - 2	-.649721	1	.296821 - 2	.895653 - 1	.135288
5.4	.160801 - 1	.801832 - 1	-.223650 - 2	-.651917	1	.314737 - 2	.963384 - 1	.135460
5.6	.160818 - 1	.865818 - 1	-.237422 - 2	-.653946	1	.332793 - 2	.103355	.135626
5.8	.160827 - 1	.932242 - 1	-.251243 - 2	-.655824	1	.350954 - 2	.110614	.135785
6.0	.160828 - 1	.100110	-.265080 - 2	-.657568	1	.369187 - 2	.118117	.135937
6.2	.160822 - 1	.107240	-.278897 - 2	-.659191	1	.387455 - 2	.125863	.136084

Z = - 27, A = 57

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.160905	.478135 - 1	-.338356 - 2	.243848	.174090 - 1	.220942	.450318	1
.6	.307663	.132178	-.930602 - 2	.165587	.352908 - 1	.449944	.647635	1
.8	.404968	.245340	-.171597 - 1	.128082	.525744 - 1	.674284	.872635	1
1.0	.466588	.376661	-.261412 - 1	.105743	.686247 - 1	.886278	.111824	2
1.2	.506285	.518921	-.357042 - 1	.908072 - 1	.834837 - 1	.108657	.138299	2
1.4	.532586	.667628	-.455086 - 1	.800752 - 1	.973261 - 1	.127739	.166711	2
1.6	.550495	.820093	-.553500 - 1	.719727 - 1	.110324	.146088	.197162	2
1.8	.562982	.974723	-.651077 - 1	.656305 - 1	.122617	.163878	.229805	2
2.0	.571860	.113058 1	-.747100 - 1	.605271 - 1	.134311	.181240	.264839	2
2.2	.578268	.128710 1	-.841145 - 1	.563299 - 1	.145487	.198272	.302504	2
2.4	.582944	.144395 1	-.932959 - 1	.528162 - 1	.156203	.215049	.343084	2
2.6	.586381	.160094 1	-.102239	.498310 - 1	.166505	.231623	.386917	2
2.8	.588912	.175796 1	-.110936	.472633 - 1	.176425	.248037	.434398	2
3.0	.590772	.191494 1	-.119381	.450309 - 1	.185991	.264322	.485994	2
3.2	.592128	.207183 1	-.127571	.430723 - 1	.195221	.280504	.542258	2
3.4	.593099	.222864 1	-.135505	.413399 - 1	.204132	.296600	.603852	2
3.6	.593773	.238535 1	-.143183	.397967 - 1	.212737	.312627	.671568	2
3.8	.594218	.254197 1	-.150605	.384134 - 1	.221044	.328597	.746366	2
4.0	.594482	.269851 1	-.157771	.371664 - 1	.229062	.344520	.829419	2
4.2	.594605	.285496 1	-.164682	.360365 - 1	.236798	.360404	.922178	2
4.4	.594614	.301135 1	-.171339	.350081 - 1	.244258	.376256	.102645	3
4.6	.594535	.316769 1	-.177742	.340680 - 1	.251445	.392082	.114454	3
4.8	.594383	.332399 1	-.183892	.332056 - 1	.258363	.407886	.127938	3
5.0	.594175	.348025 1	-.189789	.324114 - 1	.265017	.423673	.143482	3
5.2	.593920	.363650 1	-.195435	.316779 - 1	.271407	.439446	.161599	3
5.4	.593629	.379273 1	-.200830	.309984 - 1	.277537	.455208	.182988	3
5.6	.593309	.394897 1	-.205974	.303672 - 1	.283409	.470962	.208625	3
5.8	.592966	.410522 1	-.210867	.297793 - 1	.289023	.486710	.239916	3
6.0	.592605	.426148 1	-.215512	.292306 - 1	.294382	.502454	.278971	3
6.2	.592229	.441778 1	-.219907	.287171 - 1	.299487	.518196	.329092	3

Z = - 27, A = 57

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.504716 - 2	.752435 - 4	-.301784 - 5	-.184309	1	.170047 - 4	.378585 - 3	.261349
.6	.866845 - 2	.308178 - 3	-.122940 - 4	-.269776	1	.489815 - 4	.109575 - 2	.194635
.8	.109843 - 1	.760410 - 3	-.301250 - 4	-.336807	1	.954037 - 4	.214751 - 2	.167630
1.0	.124488 - 1	.145852 - 2	-.573120 - 4	-.389270	1	.154277 - 3	.349810 - 2	.154464
1.2	.134012 - 1	.241196 - 2	-.939178 - 4	-.430408	1	.224159 - 3	.512403 - 2	.147428
1.4	.140415 - 1	.362246 - 2	-.139669 - 3	-.462912	1	.304035 - 3	.701112 - 2	.143473
1.6	.144855 - 1	.508879 - 2	-.194165 - 3	-.488881	1	.393166 - 3	.915113 - 2	.141197
1.8	.148018 - 1	.680892 - 2	-.256969 - 3	-.509890	1	.490977 - 3	.115393 - 1	.139887
2.0	.150325 - 1	.878080 - 2	-.327644 - 3	-.527105	1	.596988 - 3	.141730 - 1	.139156
2.2	.152041 - 1	.110027 - 1	-.405763 - 3	-.541387	1	.710772 - 3	.170504 - 1	.138782
2.4	.153338 - 1	.134731 - 1	-.490915 - 3	-.553374	1	.831934 - 3	.201708 - 1	.138632
2.6	.154333 - 1	.161909 - 1	-.582698 - 3	-.563542	1	.960100 - 3	.235336 - 1	.138626
2.8	.155103 - 1	.191551 - 1	-.680725 - 3	-.572252	1	.109490 - 2	.271385 - 1	.138710
3.0	.155706 - 1	.223651 - 1	-.784611 - 3	-.579782	1	.123599 - 2	.309854 - 1	.138853
3.2	.156181 - 1	.258202 - 1	-.893984 - 3	-.586343	1	.138300 - 2	.350741 - 1	.139032
3.4	.156556 - 1	.295200 - 1	-.100847 - 2	-.592104	1	.153558 - 2	.394046 - 1	.139232
3.6	.156855 - 1	.334640 - 1	-.112771 - 2	-.597196	1	.169339 - 2	.439769 - 1	.139444
3.8	.157091 - 1	.376521 - 1	-.125134 - 2	-.601725	1	.185607 - 2	.487911 - 1	.139661
4.0	.157279 - 1	.420839 - 1	-.137899 - 2	-.605776	1	.202328 - 2	.538472 - 1	.139879
4.2	.157428 - 1	.467592 - 1	-.151031 - 2	-.609419	1	.219467 - 2	.591452 - 1	.140095
4.4	.157544 - 1	.516780 - 1	-.164495 - 2	-.612709	1	.236989 - 2	.646851 - 1	.140306
4.6	.157634 - 1	.568401 - 1	-.178254 - 2	-.615695	1	.254859 - 2	.704671 - 1	.140512
4.8	.157703 - 1	.622453 - 1	-.192274 - 2	-.618415	1	.273043 - 2	.764911 - 1	.140712
5.0	.157754 - 1	.678936 - 1	-.206518 - 2	-.620903	1	.291506 - 2	.827573 - 1	.140905
5.2	.157790 - 1	.737850 - 1	-.220952 - 2	-.623187	1	.310213 - 2	.892656 - 1	.141091
5.4	.157814 - 1	.799193 - 1	-.235541 - 2	-.625289	1	.329129 - 2	.960161 - 1	.141270
5.6	.157827 - 1	.862966 - 1	-.250249 - 2	-.627230	1	.348219 - 2	.103009	.101442
5.8	.157832 - 1	.929168 - 1	-.265042 - 2	-.629028	1	.367449 - 2	.110244	.141607
6.0	.157830 - 1	.997799 - 1	-.279883 - 2	-.630698	1	.386784 - 2	.117721	.141766
6.2	.157821 - 1	.106886	-.294739 - 2	-.632252	1	.406190 - 2	.125441	.141918

Z = - 28, A = 60

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.149647	.464454 - 1	-.341714 - 2	.254779	.174046 - 1	.212920	.441374	1
.6	.294741	.129836	-.950484 - 2	.172970	.358124 - 1	.440090	.631867	1
.8	.392758	.242114	-.176103 - 1	.133930	.536881 - 1	.663605	.851315	1
1.0	.455318	.372578	-.268947 - 1	.110715	.703066 - 1	.874966	.109237	2
1.2	.495765	.513968	-.367883 - 1	.952052 - 1	.856935 - 1	.107460	.135371	2
1.4	.522602	.661775	-.469365 - 1	.840649 - 1	.100026	.126467	.163579	2
1.6	.540881	.813301	-.571270 - 1	.756561 - 1	.113482	.144734	.193992	2
1.8	.553619	.966955	-.672344 - 1	.690750 - 1	.126208	.162434	.226802	2
2.0	.562663	.112180 1	-.771846 - 1	.637800 - 1	.138315	.179700	.262254	2
2.2	.569180	.127728 1	-.869341 - 1	.594254 - 1	.149887	.196632	.300645	2
2.4	.573923	.143306 1	-.964568 - 1	.557801 - 1	.160987	.213300	.342333	2
2.6	.577397	.158896 1	-.105738	.526833 - 1	.171660	.229770	.387744	2
2.8	.579946	.174486 1	-.114767	.500195 - 1	.181942	.246074	.437388	2
3.0	.581807	.190071 1	-.123542	.477038 - 1	.191862	.262246	.491877	2
3.2	.583153	.205646 1	-.132057	.456720 - 1	.201439	.278313	.551950	2
3.4	.584106	.221210 1	-.140313	.438750 - 1	.210691	.294294	.618508	2
3.6	.584757	.236764 1	-.148310	.422743 - 1	.219631	.310203	.692657	2
3.8	.585174	.252308 1	-.156047	.408394 - 1	.228268	.326055	.775777	2
4.0	.585408	.267842 1	-.163524	.395459 - 1	.236612	.341859	.869600	2
4.2	.585497	.283367 1	-.170744	.383740 - 1	.244670	.357623	.976340	2
4.4	.585472	.298886 1	-.177706	.373072 - 1	.252448	.373355	.109887	3
4.6	.585357	.314399 1	-.184411	.363322 - 1	.259949	.389060	.124097	3
4.8	.585170	.329907 1	-.190861	.354377 - 1	.267178	.404743	.140775	3
5.0	.584925	.345411 1	-.197055	.346140 - 1	.274139	.420408	.160628	3
5.2	.584635	.360914 1	-.202995	.338533 - 1	.280834	.436059	.184659	3
5.4	.584308	.376415 1	-.208681	.331485 - 1	.287266	.451700	.214303	3
5.6	.583952	.391916 1	-.214114	.324939 - 1	.293437	.467332	.251946	3
5.8	.583573	.407418 1	-.219294	.318842 - 1	.299348	.482958	.301129	3
6.0	.583176	.422922 1	-.224223	.313150 - 1	.305001	.498580	.368221	3
6.2	.582766	.438428 1	-.228900	.307826 - 1	.310397	.514200	.465195	3

Z = - 28, A = 60

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.473039 - 2	.742625 - 4	-.309650 - 5	-.176180	1	.173677 - 4	.372786 - 3	.272656
.6	.831226 - 2	.307299 - 3	-.127462 - 4	-.258815	1	.506072 - 4	.109138 - 2	.202760
.8	.106355 - 1	.761602 - 3	-.313759 - 4	-.323433	1	.990617 - 4	.214935 - 2	.174582
1.0	.121139 - 1	.146417 - 2	-.598400 - 4	-.373933	1	.160618 - 3	.350991 - 2	.160866
1.2	.130784 - 1	.242455 - 2	-.982111 - 4	-.413494	1	.233749 - 3	.514881 - 2	.153541
1.4	.137278 - 1	.364440 - 2	-.146207 - 3	-.444733	1	.317384 - 3	.705143 - 2	.149426
1.6	.141784 - 1	.512241 - 2	-.203413 - 3	-.469679	1	.410749 - 3	.920924 - 2	.147058
1.8	.144995 - 1	.685645 - 2	-.269374 - 3	-.489854	1	.513244 - 3	.116173 - 1	.145695
2.0	.147336 - 1	.884440 - 2	-.343638 - 3	-.506381	1	.624369 - 3	.142729 - 1	.140930
2.2	.149075 - 1	.110844 - 1	-.425765 - 3	-.520089	1	.743683 - 3	.171743 - 1	.144545
2.4	.150390 - 1	.135751 - 1	-.515328 - 3	-.531591	1	.870780 - 3	.203205 - 1	.144389
2.6	.151396 - 1	.163151 - 1	-.611915 - 3	-.541347	1	.100527 - 2	.237109 - 1	.144382
2.8	.152174 - 1	.193035 - 1	-.715125 - 3	-.549704	1	.114679 - 2	.273454 - 1	.144469
3.0	.152782 - 1	.225396 - 1	-.824565 - 3	-.556926	1	.129495 - 2	.312232 - 1	.144617
3.2	.153260 - 1	.260228 - 1	-.939848 - 3	-.563220	1	.144941 - 2	.353455 - 1	.144803
3.4	.153637 - 1	.297525 - 1	-.106060 - 2	-.568745	1	.160980 - 2	.397112 - 1	.145011
3.6	.153935 - 1	.337285 - 1	-.118643 - 2	-.573628	1	.177575 - 2	.443204 - 1	.145231
3.8	.154171 - 1	.379503 - 1	-.131698 - 2	-.577972	1	.194692 - 2	.491734 - 1	.145456
4.0	.154357 - 1	.424178 - 1	-.145188 - 2	-.581856	1	.212295 - 2	.542701 - 1	.145683
4.2	.154503 - 1	.471307 - 1	-.159075 - 2	-.585349	1	.230347 - 2	.596105 - 1	.145907
4.4	.154617 - 1	.520888 - 1	-.173324 - 2	-.588504	1	.248813 - 2	.651947 - 1	.146126
4.6	.154705 - 1	.572922 - 1	-.187898 - 2	-.591367	1	.267658 - 2	.710228 - 1	.146340
4.8	.154770 - 1	.627405 - 1	-.202760 - 2	-.593975	1	.282846 - 2	.770948 - 1	.146547
5.0	.154818 - 1	.684338 - 1	-.217874 - 2	-.596360	1	.306341 - 2	.830108 - 1	.106748
5.2	.154850 - 1	.743720 - 1	-.233205 - 2	-.598549	1	.326107 - 2	.899707 - 1	.146941
5.4	.154871 - 1	.805551 - 1	-.248715 - 2	-.600565	1	.346110 - 2	.967747 - 1	.147127
5.6	.154880 - 1	.869829 - 1	-.264370 - 2	-.602426	1	.366313 - 2	.103823	.147305
5.8	.154881 - 1	.936556 - 1	-.280132 - 2	-.604149	1	.386680	.111115	.147477
6.0	.154875 - 1	.100573	-.295967 - 2	-.605750	1	.407177 - 2	.118652	.147642
6.2	.154863 - 1	.107735	-.311837 - 2	-.607239	1	.427767 - 2	.126432	.147800

Z = - 29, A = 65

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.139086	.451094 - 1	-.344173 - 2	.265887	.173718 - 1	.205123	.433405	1
.6	.282255	.127528	-.968193 - 2	.180451	.362857 - 1	.430375	.617447	1
.8	.380818	.238921	-.180233 - 1	.139859	.547410 - 1	.653021	.831749	1
1.0	.444232	.368528	-.275920 - 1	.115761	.719156 - 1	.863730	.106867	2
1.2	.485379	.509049	-.377946 - 1	.996742 - 1	.878164 - 1	.106269	.132704	2
1.4	.512723	.655957	-.482623 - 1	.881242 - 1	.102622	.125202	.160754	2
1.6	.531352	.806547	-.587747 - 1	.794082 - 1	.116518	.143386	.191180	2
1.8	.544326	.959228	-.692021 - 1	.725878 - 1	.129655	.160997	.224228	2
2.0	.553528	.111307 1	-.794680 - 1	.671006 - 1	.142150	.178169	.260185	2
2.2	.560145	.126751 1	-.895274 - 1	.625884 - 1	.154091	.195001	.299421	2
2.4	.564949	.142223 1	-.993139 - 1	.588110 - 1	.165543	.211569	.342380	2
2.6	.568456	.157704 1	-.108932	.556028 - 1	.176555	.227929	.389600	2
2.8	.571016	.173184 1	-.118253	.528429 - 1	.187164	.244124	.441733	2
3.0	.572875	.188656 1	-.127311	.504438 - 1	.197400	.260186	.499579	2
3.2	.574208	.204118 1	-.136105	.483388 - 1	.207284	.276140	.564125	2
3.4	.575141	.219568 1	-.144633	.464771 - 1	.216834	.292007	.636601	2
3.6	.575766	.235006 1	-.152896	.448189 - 1	.226064	.307802	.718563	2
3.8	.576153	.250433 1	-.160893	.433320 - 1	.234984	.323538	.812002	2
4.0	.576354	.265850 1	-.168625	.419925 - 1	.243600	.339226	.919511	2
4.2	.576409	.281258 1	-.176094	.407785 - 1	.251931	.354874	.104453	3
4.4	.576348	.296658 1	-.183299	.396735 - 1	.259972	.370488	.119173	3
4.6	.576196	.312052 1	-.190243	.386635 - 1	.267730	.386076	.136759	3
0.8	.575972	.327442 1	-.196925	.377369 - 1	.275211	.401642	.158141	3
5.0	.575690	.342827 1	-.203308	.368838 - 1	.282418	.417190	.184696	3
5.2	.575362	.358211 1	-.209510	.360918 - 1	.289354	.432724	.218566	3
5.4	.574998	.373593 1	-.215414	.353659 - 1	.296021	.448247	.263257	3
5.6	.574606	.388975 1	-.221060	.346878 - 1	.302421	.463762	.324951	3
5.8	.574191	.404358 1	-.226449	.340564 - 1	.308558	.479272	.415635	3
6.0	.573759	.419744 1	-.231580	.334670 - 1	.314431	.494778	.562044	3
6.2	.573313	.435132 1	-.236456	.329156 - 1	.320043	.510282	.838351	3

Z = - 29, A = 65'

p	$\overline{f_1}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.443199 - 2	.739938 - 4	-.319912 - 5	-.168560	1	.178827 - 4	.370550 - 3	.284130
.6	.796948 - 2	.309366 - 3	-.133059 - 4	-.248575	1	.527146 - 4	.109742 - 2	.210966
.8	.102969 - 1	.770134 - 3	-.329016 - 4	-.310957	1	.103698 - 3	.217183 - 2	.181595
1.0	.117373 - 1	.148400 - 2	-.628996 - 4	-.359634	1	.168570 - 3	.355560 - 2	.167322
1.2	.127626 - 1	.246068 - 2	-.103380 - 3	-.397732	1	.245697 - 3	.522347 - 2	.159706
1.4	.134204 - 1	.370179 - 2	-.154044 - 3	-.427795	1	.333936 - 3	.716021 - 2	.155428
1.6	.138771 - 1	.520592 - 2	-.214454 - 3	-.451792	1	.432463 - 3	.935693 - 2	.152967
1.8	.142026 - 1	.697082 - 2	-.284131 - 3	-.471191	1	.540642 - 3	.118085 - 1	.151551
2.0	.144398 - 1	.899428 - 2	-.362598 - 3	-.487079	1	.657946 - 3	.145119 - 1	.150760
2.2	.146160 - 1	.112744 - 1	-.449391 - 3	-.500253	1	.783912 - 3	.174656 - 1	.150355
2.4	.147489 - 1	.138096 - 1	-.544063 - 3	-.511306	1	.918112 - 3	.206683 - 1	.150193
2.6	.148506 - 1	.165986 - 1	-.646181 - 3	-.520679	1	.106014 - 2	.241196 - 1	.150185
2.8	.149291 - 1	.196405 - 1	-.755323 - 3	-.528707	1	.120960 - 2	.278192 - 1	.150275
3.0	.149903 - 1	.229344 - 1	-.871079 - 3	-.535645	1	.136612 - 2	.317668 - 1	.150429
3.2	.150383 - 1	.264797 - 1	-.993043 - 3	-.541689	1	.152931 - 2	.359623 - 1	.150621
3.4	.150761 - 1	.302759 - 1	-.112082 - 2	-.546996	1	.169879 - 2	.404057 - 1	.150837
3.6	.151059 - 1	.343226 - 1	-.125401 - 2	-.551685	1	.187418 - 2	.450970 - 1	.151065
3.8	.151293 - 1	.386195 - 1	-.139223 - 2	-.555856	1	.205513 - 2	.500363 - 1	.151299
4.0	.151478 - 1	.431664 - 1	-.153510 - 2	-.559586	1	.224124 - 2	.552234 - 1	.151533
4.2	.151621 - 1	.479629 - 1	-.168222 - 2	-.562939	1	.243215 - 2	.606586 - 1	.151766
4.4	.151732 - 1	.530091 - 1	-.183321 - 2	-.565968	1	.262749 - 2	.663418 - 1	.151994
4.6	.151817 - 1	.583046 - 1	-.198770 - 2	-.568717	1	.282688 - 2	.722731 - 1	.152215
4.8	.151879 - 1	.638494 - 1	-.214530 - 2	-.571221	1	.302995 - 2	.784525 - 1	.152430
5.0	.151923 - 1	.696435 - 1	-.230564 - 2	-.573511	1	.323633 - 2	.848801 - 1	.152638
5.2	.151952 - 1	.756867 - 1	-.246833 - 2	-.575612	1	.344565 - 2	.915560 - 1	.152839
5.4	.151968 - 1	.819790 - 1	-.263300 - 2	-.577547	1	.365753 - 2	.984801 - 1	.153031
5.6	.151974 - 1	.885204 - 1	-.279928 - 2	-.579334	1	.387160 - 2	.105653	.153217
5.8	.151972 - 1	.953109 - 1	-.296678 - 2	-.580988	1	.408749 - 2	.113073	.153395
6.0	.151962 - 1	.102350	-.313514 - 2	-.582524	1	.430483 - 2	.120743	.153566
6.2	.151945 - 1	.109639	-.330397 - 2	-.583954	1	.452324 - 2	.128661	.153730

Z = - 30, A = 67

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.129340	.438285 - 1	-.346971 - 2	.277177	.173229 - 1	.197648	.426332	1
.6	.270515	.125318	-.987307 - 2	.188030	.367380 - 1	.421002	.604250	1
.8	.369581	.235884	-.184684 - 1	.145868	.557811 - 1	.642837	.813771	1
1.0	.433838	.364698	-.283455 - 1	.120881	.735267 - 1	.852964	.104694	2
1.2	.475687	.504417	-.388860 - 1	.104214	.899607 - 1	.105133	.130272	2
1.4	.503540	.650492	-.497065 - 1	.922528 - 1	.105263	.123998	.158209	2
1.6	.522521	.800213	-.605781 - 1	.832287 - 1	.119624	.142106	.188708	2
1.8	.535735	.951985	-.713665 - 1	.761682 - 1	.133202	.159634	.222053	2
2.0	.545093	.110488 1	-.819928 - 1	.704886 - 1	.146118	.176716	.258604	2
2.2	.551811	.125834 1	-.924107 - 1	.658184 - 1	.158464	.193453	.298807	2
2.4	.556675	.141205 1	-.102593	.619093 - 1	.170309	.209922	.343211	2
2.6	.560213	.156584 1	-.112525	.585887 - 1	.181704	.226180	.392491	2
2.8	.562785	.171958 1	-.122196	.557326 - 1	.192688	.242269	.447480	2
3.0	.564641	.187322 1	-.131602	.532498 - 1	.203292	.258223	.509222	2
3.2	.565960	.202674 1	-.140742	.510715 - 1	.213538	.274068	.579032	2
3.4	.566870	.218013 1	-.149613	.491450 - 1	.223445	.289823	.658598	2
3.6	.567468	.233339 1	-.158216	.474290 - 1	.233028	.305505	.750116	2
3.8	.567824	.248653 1	-.166552	.458909 - 1	.242298	.321127	.856497	2
4.0	.567990	.263955 1	-.174622	.445043 - 1	.251265	.336700	.981682	2
4.2	.568009	.279248 1	-.182426	.432481 - 1	.259936	.352232	.113115	3
4.4	.567911	.294532 1	-.189965	.421047 - 1	.268318	.367730	.131272	3
4.6	.567721	.309809 1	-.197241	.410597 - 1	.276416	.383200	.153801	3
4.8	.567458	.325081 1	-.204255	.401009 - 1	.284235	.398648	.182497	3
5.0	.567138	.340349 1	-.211007	.392182 - 1	.291778	.414078	.220299	3
5.2	.566771	.355614 1	-.217499	.384029 - 1	.299048	.429493	.272362	3
5.4	.566369	.370877 1	-.223731	.376476 - 1	.306049	.444897	.348641	3
5.6	.565939	.386140 1	-.229704	.369460 - 1	.312782	.460293	.471161	3
5.8	.565486	.401404 1	-.235418	.362927 - 1	.319249	.475684	.700293	3
6.0	.565017	.416670 1	-.240875	.356828 - 1	.325453	.491070	.128245	4
6.2	.564535	.431938 1	-.246075	.351123 - 1	.331394	.506455	.577251	4

Z = - 30, A = 67

p	F	f ₂	g ₂	tanΔ ₂		f ₋₂	g ₋₂	tanΔ ₋₂
.4	.415343 - 2	.725259 - 4	-.325340 - 5	-.161397	1	.180917 - 4	.362306 - 3	.295779
.6	.764412 - 2	.306394 - 3	-.136748 - 4	-.238986	1	.539601 - 4	.108555 - 2	.219257
.8	.997390 - 2	.766143 - 3	-.339707 - 4	-.299288	1	.106686 - 3	.215893 - 2	.188671
1.0	.114754 - 1	.147973 - 2	-.651075 - 4	-.346269	1	.173898 - 3	.354346 - 2	.173833
1.2	.124611 - 1	.245688 - 2	-.107177 - 3	-.383005	1	.253882 - 3	.521327 - 2	.165922
1.4	.131269 - 1	.369915 - 2	-.159877 - 3	-.411974	1	.345447 - 3	.715274 - 2	.161480
1.6	.135895 - 1	.520503 - 2	-.222756 - 3	-.435086	1	.447735 - 3	.935276 - 2	.158926
1.8	.139192 - 1	.697220 - 2	-.295325 - 3	-.453764	1	.560093 - 3	.118080 - 1	.157456
2.0	.141594 - 1	.899837 - 2	-.377095 - 3	-.469056	1	.681977 - 3	.145155 - 1	.156635
2.2	.143377 - 1	.112816 - 1	-.467593 - 3	-.481733	1	.812916 - 3	.174735 - 1	.156214
2.4	.144721 - 1	.138202 - 1	-.566362 - 3	-.492368	1	.952474 - 3	.206808 - 1	.156045
2.6	.145747 - 1	.166130 - 1	-.672961 - 3	-.501385	1	.110024 - 2	.241369 - 1	.156036
2.8	.146539 - 1	.196589 - 1	-.786962 - 3	-.509106	1	.125581 - 2	.278415 - 1	.156129
3.0	.147155 - 1	.229571 - 1	-.907947 - 3	-.515779	1	.141880 - 2	.317943 - 1	.156288
3.2	.147637 - 1	.265069 - 1	-.103551 - 2	-.521592	1	.158883 - 2	.359951 - 1	.156407
3.4	.148015 - 1	.303079 - 1	-.116923 - 2	-.526694	1	.176551 - 2	.404441 - 1	.156710
3.6	.148312 - 1	.343596 - 1	-.130873 - 2	-.531204	1	.194846 - 2	.451411 - 1	.156947
3.8	.148545 - 1	.386617 - 1	-.145361 - 2	-.535213	1	.213730 - 2	.500862 - 1	.157189
4.0	.148727 - 1	.432140 - 1	-.160347 - 2	-.538800	1	.233166 - 2	.552795 - 1	.157432
4.2	.148868 - 1	.480161 - 1	-.175793 - 2	-.542023	1	.253116 - 2	.607208 - 1	.157673
4.4	.148976 - 1	.530680 - 1	-.191660 - 2	-.544936	1	.273542 - 2	.664104 - 1	.157909
4.6	.149057 - 1	.583695 - 1	-.207909 - 2	-.547578	1	.294407 - 2	.723482 - 1	.158139
4.8	.149116 - 1	.639205 - 1	-.224501 - 2	-.549985	1	.315673 - 2	.785343 - 1	.158362
5.0	.149156 - 1	.697208 - 1	-.241400 - 2	-.552186	1	.337302 - 2	.849607 - 1	.158577
5.2	.149181 - 1	.757705 - 1	-.258566 - 2	-.554206	1	.359257 - 2	.916516 - 1	.158785
5.4	.149194 - 1	.820695 - 1	-.275961 - 2	-.556065	1	.381499 - 2	.985829 - 1	.158984
5.6	.149196 - 1	.886177 - 1	-.293547 - 2	-.557782	1	.403993 - 2	.105763	.159176
5.8	.149189 - 1	.954152 - 1	-.311286 - 2	-.559373	1	.426699 - 2	.113191	.159361
6.0	.149175 - 1	.102462	-.329140 - 2	-.560849	1	.449580 - 2	.120868	.159538
6.2	.149155 - 1	.109758	-.347072 - 2	-.562223	1	.472599 - 2	.128794	.159708

Z = - 31, A = 69

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.120263	.425868 - 1	-.349376 - 2	.288655	.172533 - 1	.190426	.420086	1
.6	.259293	.123165	-.100568 - 1	.195710	.371557 - 1	.411844	.592171	1
.8	.358759	.232925	-.189038 - 1	.151957	.567822 - 1	.632865	.797240	1
1.0	.423809	.360973	-.290873 - 1	.126074	.750977 - 1	.842428	.102700	2
1.2	.466334	.499918	-.399641 - 1	.108825	.920642 - 1	.104022	.128057	2
1.4	.494682	.645189	-.511356 - 1	.964505 - 1	.107862	.122822	.155922	2
1.6	.514008	.794068	-.623645 - 1	.871173 - 1	.122687	.140857	.186542	2
1.8	.527453	.944959	-.735118 - 1	.798162 - 1	.136704	.158300	.220254	2
2.0	.536964	.109693 1	-.844960 - 1	.739436 - 1	.150039	.175299	.257492	2
2.2	.543778	.124944 1	-.952698 - 1	.691152 - 1	.162788	.191944	.298795	2
2.4	.548699	.140218 1	-.105806	.650738 - 1	.175023	.208317	.344839	2
2.6	.552266	.155495 1	-.116087	.616409 - 1	.186798	.224474	.396466	2
2.8	.554845	.170766 1	-.126106	.586884 - 1	.198154	.240460	.454742	2
3.0	.556695	.186025 1	-.135857	.561218 - 1	.209122	.256309	.521026	2
3.2	.557997	.201270 1	-.145339	.538701 - 1	.219727	.272046	.597082	2
3.4	.558884	.216501 1	-.154550	.518787 - 1	.229988	.287692	.685235	2
3.6	.559453	.231717 1	-.163491	.501049 - 1	.239920	.303264	.788619	2
3.8	.559775	.246919 1	-.172163	.485150 - 1	.249536	.318774	.911552	2
4.0	.559906	.262109 1	-.180566	.470818 - 1	.258846	.334234	.106016	3
4.2	.559887	.277289 1	-.188702	.457834 - 1	.267857	.349652	.124343	3
4.4	.559750	.292459 1	-.196572	.446015 - 1	.276577	.365036	.147510	3
4.6	.559521	.307622 1	-.204177	.435214 - 1	.285011	.380391	.177727	3
4.8	.559218	.322779 1	-.211518	.425304 - 1	.293164	.395723	.218795	3
5.0	.558858	.337931 1	-.218597	.416180 - 1	.301039	.411037	.277841	3
5.2	.558452	.353079 1	-.225414	.407753 - 1	.308641	.426336	.369985	3
5.4	.558010	.368226 1	-.231970	.399947 - 1	.315971	.441623	.533915	3
5.6	.557541	.383372 1	-.238266	.392696 - 1	.323033	.456902	.907100	3
5.8	.557050	.398519 1	-.244304	.385943 - 1	.329828	.472175	.259751	4
6.0	.556543	.413667 1	-.250083	.379640 - 1	.336359	.487444	-.351238	4
6.2	.556024	.428818 1	-.255604	.373744 - 1	.342626	.502712	-.109730	4

Z = - 31, A = 69

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.389200 - 2	.710675 - 4	-.330347 - 5	-.154646	1	.182763 - 4	.354120 - 3	.307607
.6	.733269 - 2	.303385 - 3	-.140328 - 4	-.229983	1	.551589 - 4	.107353 - 2	.227634
.8	.966251 - 2	.762018 - 3	-.350221 - 4	-.288348	1	.109612 - 3	.214562 - 2	.195811
1.0	.111737 - 1	.147518 - 2	-.672917 - 4	-.333748	1	.179152 - 3	.353060 - 2	.180400
1.2	.121689 - 1	.245261 - 2	-.110946 - 3	-.369212	1	.261984 - 3	.520200 - 2	.172190
1.4	.128422 - 1	.369579 - 2	-.165676 - 3	-.397161	1	.356866 - 3	.714380 - 2	.167583
1.6	.133103 - 1	.520313 - 2	-.231021 - 3	-.419447	1	.462908 - 3	.934666 - 2	.164934
1.8	.136440 - 1	.697220 - 2	-.306478 - 3	-.437452	1	.579435 - 3	.118052 - 1	.163409
2.0	.138870 - 1	.900066 - 2	-.391547 - 3	-.452188	1	.705891 - 3	.145161 - 1	.162557
2.2	.140673 - 1	.112865 - 1	-.485746 - 3	-.464402	1	.841794 - 3	.174778 - 1	.162121
2.4	.142031 - 1	.138280 - 1	-.588607 - 3	-.474646	1	.986699 - 3	.206890 - 1	.161945
2.6	.143066 - 1	.166240 - 1	-.699684 - 3	-.483331	1	.114019 - 2	.241492 - 1	.161935
2.8	.143864 - 1	.196732 - 1	-.818540 - 3	-.490767	1	.130186 - 2	.278579 - 1	.162032
3.0	.144483 - 1	.229750 - 1	-.944750 - 3	-.497192	1	.147132 - 2	.318150 - 1	.162195
3.2	.144966 - 1	.265286 - 1	-.107790 - 2	-.502789	1	.164817 - 2	.360203 - 1	.162401
3.4	.145344 - 1	.303336 - 1	-.121758 - 2	-.507701	1	.183203 - 2	.404738 - 1	.162632
3.6	.145640 - 1	.343894 - 1	-.136338 - 2	-.512042	1	.202252 - 2	.451755 - 1	.162877
3.8	.145871 - 1	.386957 - 1	-.151491 - 2	-.515902	1	.221925 - 2	.501254 - 1	.163128
4.0	.16050 - 1	.432523 - 1	-.167177 - 2	-.519353	1	.242185 - 2	.553235 - 1	.163379
4.2	.146189 - 1	.480590 - 1	-.183357 - 2	-.522456	1	.262992 - 2	.607698 - 1	.163628
4.4	.146293 - 1	.531155 - 1	-.199990 - 2	-.525259	1	.284310 - 2	.664645 - 1	.163873
4.6	.146371 - 1	.584217 - 1	-.217040 - 2	-.527802	1	.306099 - 2	.724074 - 1	.164111
4.8	.146425 - 1	.639776 - 1	-.234465 - 2	-.530119	1	.328322 - 2	.785988 - 1	.164341
5.0	.146462 - 1	.697830 - 1	-.252229 - 2	-.532237	1	.350942 - 2	.850386 - 1	.164564
5.2	.146483 - 1	.758378 - 1	-.270292 - 2	-.534181	1	.373919 - 2	.917268 - 1	.164779
5.4	.146492 - 1	.821019 - 1	-.288615 - 2	-.535970	1	.397216 - 2	.986637 - 1	.164986
5.6	.146490 - 1	.886955 - 1	-.307160 - 2	-.537623	1	.420795 - 2	.105849	.165185
5.8	.146479 - 1	.954983 - 1	-.325889 - 2	-.539153	1	.444618 - 2	.113283	.165376
6.0	.146461 - 1	.102550	-.344764 - 2	-.540574	1	.468647 - 2	.120966	.165559
6.2	.146437 - 1	.109852	-.363745 - 2	-.541896	1	.492843 - 2	.128897	.165735

Z = - 32, A = 72

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.111781	.413784 - 1	-.351193 - 2	.300329	.171626 - 1	.183433	.414612	1
.6	.248504	.121054	-.102269 - 1	.203492	.375346 - 1	.402855	.581114	1
.8	.348246	.230018	-.193169 - 1	.158128	.577360 - 1	.623036	.782033	1
1.0	.414025	.357311	-.297973 - 1	.131342	.766149 - 1	.832030	.100870	2
1.2	.457192	.495494	-.409994 - 1	.113506	.941071 - 1	.102925	.126040	2
1.4	.486015	.639975	-.525096 - 1	.100717	.110392	.121662	.153875	2
1.6	.505670	.788025	-.640820 - 1	.910739 - 1	.125672	.139625	.184666	2
1.8	.519337	.938049	-.755730 - 1	.835315 - 1	.140116	.156992	.218814	2
2.0	.528994	.108912 1	-.868988 - 1	.774655 - 1	.153857	.173902	.256835	2
2.2	.535898	.124069 1	-.980107 - 1	.724784 - 1	.166995	.190456	.299382	2
2.4	.540871	.139246 1	-.108881	.683045 - 1	.179605	.206734	.347282	2
2.6	.544462	.154424 1	-.119492	.647592 - 1	.191743	.222793	.401587	2
2.8	.547047	.169593 1	-.129837	.617101 - 1	.203452	.238679	.463655	2
3.0	.548888	.184749 1	-.139911	.590597 - 1	.214765	.254424	.535265	2
3.2	.550171	.199889 1	-.149710	.567344 - 1	.225708	.270056	.618791	2
3.4	.551032	.215013 1	-.159236	.546780 - 1	.236301	.285595	.717468	2
3.6	.551569	.230120 1	-.168488	.528464 - 1	.246560	.301058	.835826	2
3.8	.551856	.245214 1	-.177468	.512047 - 1	.256498	.316459	.980404	2
4.0	.551950	.260294 1	-.186176	.497248 - 1	.266125	.331808	.116100	3
4.2	.551892	.275362 1	-.194614	.483841 - 1	.275450	.347115	.139300	3
4.4	.551715	.290421 1	-.202783	.471638 - 1	.284480	.362387	.170200	3
4.6	.551445	.301471 1	-.210685	.460485 - 1	.293221	.377630	.213399	3
4.8	.551101	.320515 1	-.218321	.450253 - 1	.301678	.392849	.278069	3
5.0	.550700	.335554 1	-.225692	.440833 - 1	.309855	.408050	.385524	3
5.2	.550253	.350589 1	-.232799	.432132 - 1	.317755	.423235	.599228	3
5.4	.549772	.365621 1	-.239643	.424072 - 1	.325382	.438409	.123096	4
5.6	.549263	.380653 1	-.246225	.416586 - 1	.332738	.453575	.583835	5
5.8	.548733	.395686 1	-.252546	.409615 - 1	.339826	.468734	-.138250	4
6.0	.548187	.410719 1	-.258607	.403107 - 1	.346646	.483889	-.706951	3
6.2	.547630	.425756 1	-.264408	.397020 - 1	.353202	.499043	-.485134	3

Z = - 32, A = 72

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.364623 - 2	.699415 - 4	-.336315 - 5	-.148268	1	.185223 - 4	.347602 - 3	.319624
.6	.703367 - 2	.301731 - 3	-.144385 - 4	-.221512	1	.565695 - 4	.106628 - 2	.236099
.8	.936106 - 2	.761273 - 3	-.362013 - 4	-.278068	1	.112988 - 3	.214178 - 2	.203016
1.0	.108804 - 1	.147717 - 2	-.697294 - 4	-.321991	1	.185165 - 3	.353333 - 2	.187024
1.2	.118843 - 1	.245922 - 2	-.115138 - 3	-.356267	1	.271214 - 3	.521372 - 2	.178511
1.4	.125645 - 1	.370003 - 2	-.172110 - 3	-.383261	1	.369831 - 3	.716647 - 2	.173737
1.6	.130377 - 1	.522431 - 2	-.240168 - 3	-.404776	1	.480088 - 3	.938195 - 2	.170992
1.8	.133751 - 1	.700314 - 2	-.318795 - 3	-.422150	1	.601282 - 3	.118546 - 1	.169412
2.0	.136208 - 1	.904290 - 2	-.407473 - 3	-.436367	1	.732840 - 3	.145811 - 1	.168529
2.2	.138028 - 1	.113415 - 1	-.505705 - 3	-.448148	1	.874264 - 3	.175596 - 1	.168076
2.4	.139398 - 1	.138972 - 1	-.613014 - 3	-.458027	1	.102510 - 2	.207890 - 1	.167094
2.6	.140442 - 1	.167088 - 1	-.728937 - 3	-.466400	1	.118492 - 2	.242685 - 1	.167883
2.8	.141244 - 1	.197749 - 1	-.853030 - 3	-.473569	1	.135331 - 2	.279979 - 1	.167983
3.0	.141866 - 1	.230950 - 1	-.984857 - 3	-.479763	1	.152986 - 2	.319769 - 1	.168152
3.2	.142350 - 1	.266681 - 1	-.112399 - 2	-.485158	1	.171418 - 2	.362053 - 1	.168364
3.4	.142727 - 1	.304939 - 1	-.127002 - 2	-.489892	1	.190588 - 2	.406831 - 1	.168603
3.6	.143022 - 1	.345718 - 1	-.142252 - 2	-.494076	1	.210456 - 2	.454104 - 1	.168856
3.8	.143250 - 1	.389015 - 1	-.158110 - 2	-.497795	1	.230983 - 2	.503870 - 1	.169115
4.0	.143427 - 1	.434827 - 1	-.174533 - 2	-.501122	1	.252131 - 2	.556130 - 1	.169375
4.2	.143562 - 1	.483152 - 1	-.191483 - 2	-.504112	1	.273860 - 2	.610885 - 1	.169633
4.4	.143663 - 1	.533988 - 1	-.208920 - 2	-.506812	1	.296132 - 2	.668134 - 1	.169885
4.6	.143737 - 1	.587333 - 1	-.226802 - 2	-.509262	1	.318908 - 2	.727879 - 1	.170131
4.8	.143788 - 1	.643187 - 1	-.245092 - 2	-.511494	1	.342149 - 2	.790120 - 1	.170370
5.0	.143820 - 1	.701548 - 1	-.263749 - 2	-.513535	1	.365816 - 2	.854857 - 1	.170601
5.2	.143838 - 1	.762416 - 1	-.282734 - 2	-.515408	1	.389871 - 2	.922091 - 1	.170823
5.4	.143842 - 1	.825790 - 1	-.302007 - 2	-.517132	1	.414275 - 2	.991823 - 1	.171037
5.6	.143836 - 1	.891669 - 1	-.321530 - 2	-.518724	1	.438989 - 2	.106405	.171242
5.8	.143821 - 1	.960054 - 1	-.341263 - 2	-.520198	1	.463974 - 2	.113878	.171440
6.0	.143799 - 1	.10309	-.361167 - 2	-.521566	1	.489192 - 2	.121601	.171630
6.2	.143771 - 1	.110434	-.381203 - 2	-.522840	1	.514604 - 2	.129573	.171812

Z = - 33, A = 73

p	F_0	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.103943	.402166 - 1	-.353092 - 2	.312200	.130588 - 1	.176721	.409858	1
.6	.238319	.119024	-.104032 - 1	.211377	.378928 - 1	.394159	.570998	1
.8	.338297	.227240	-.197469 - 1	.164379	.586733 - 1	.613543	.768041	1
1.0	.404794	.353830	-.305387 - 1	.136683	.781253 - 1	.822025	.991906	1
1.2	.448602	.491309	-.420838 - 1	.118257	.961557 - 1	.101874	.124206	2
1.4	.477901	.635055	-.539528 - 1	.105052	.112942	.120552	.152049	2
1.6	.497889	.782333	-.658911 - 1	.950981 - 1	.128693	.138449	.183062	2
1.8	.511780	.931544	-.777503 - 1	.873137 - 1	.143582	.155742	.217716	2
2.0	.521582	.108176	1 -.894441 - 1	.810537 - 1	.157750	.172571	.256623	2
2.2	.528577	.123245	1 -.100923	.759076 - 1	.171298	.189039	.300569	2
2.4	.533602	.138329	1 -.112157	.716009 - 1	.184306	.205226	.350564	2
2.6	.53216	.153413	1 -.123132	.679429 - 1	.196832	.221191	.407921	2
2.8	.539805	.168485	1 -.133837	.647970 - 1	.208922	.236978	.474376	2
3.0	.541636	.183541	1 -.144269	.620625 - 1	.220610	.252623	.552263	2
3.2	.542898	.198579	1 -.154426	.596636 - 1	.231923	.268152	.644796	2
3.4	.543731	.213600	1 -.164307	.575421 - 1	.242881	.283587	.756528	2
3.6	.544235	.228603	1 -.173914	.556525 - 1	.253503	.298944	.894118	2
3.8	.544486	.243590	1 -.183247	.539588 - 1	.263800	.314238	.106771	3
4.0	.544541	.258563	1 -.192307	.524321 - 1	.273785	.329478	.129358	3
4.2	.544442	.273523	1 -.201097	.510490 - 1	.283467	.344675	.159952	3
4.4	.544224	.288472	1 -.209618	.497901 - 1	.292852	.359836	.203730	3
4.6	.543912	.303412	1 -.217870	.486392 - 1	.301947	.374968	.271560	3
4.8	.543526	.318344	1 -.225857	.475040 - 1	.310757	.390075	.390781	3
5.0	.543082	.333271	1 -.233578	.466123 - 1	.319286	.405162	.655440	3
5.2	.542594	.348194	1 -.241036	.457147 - 1	.327539	.420235	.174806	4
5.4	.542071	.323114	1 -.248231	.448833 - 1	.335519	.435295	-.321711	4
5.6	.541521	.378032	1 -.255164	.441111 - 1	.343227	.450346	-.884428	3
5.8	.540951	.392950	1 -.261837	.433919 - 1	.310667	.465390	-.527973	3
6.0	.540366	.407870	1 -.268249	.427206 - 1	.357841	.480431	-.383638	3
6.2	.539770	.422792	1 -.274403	.420927 - 1	.364750	.495470	-.305492	3

Z = - 33, A = 73

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.341654 - 2	.681858 - 4	-.339147 - 5	-.142228	1	.185760 - 4	.337967 - 3	.331837
.6	.674917 - 2	.297279 - 3	-.147167 - 4	-.213523	1	.574191 - 4	.104914 - 2	.244655
.8	.907269 - 2	.753427 - 3	-.370720 - 4	-.268389	1	.115278 - 3	.211792 - 2	.210287
1.0	.105994 - 1	.146535 - 2	-.715882 - 4	-.310929	1	.189438 - 3	.350298 - 2	.193705
1.2	.116114 - 1	.244282 - 2	-.118394 - 3	-.344092	1	.277937 - 3	.517661 - 2	.184887
1.4	.122982 - 1	.368716 - 2	-.177170 - 3	-.370191	1	.379426 - 3	.712199 - 2	.179942
1.6	.127764 - 1	.519658 - 2	-.247432 - 3	-.390983	1	.492950 - 3	.932930 - 2	.177100
1.8	.131174 - 1	.696851 - 2	-.328651 - 3	-.407768	1	.617788 - 3	.117928 - 1	.175465
2.0	.133655 - 1	.900043 - 2	-.420305 - 3	-.421498	1	.753358 - 3	.145093 - 1	.174551
2.2	.135493 - 1	.112902 - 1	-.521891 - 3	-.432873	1	.899155 - 3	.174766 - 1	.174082
2.4	.136875 - 1	.138362 - 1	-.632923 - 3	-.442409	1	.105472 - 2	.206938 - 1	.173892
2.6	.137926 - 1	.166368 - 1	-.752939 - 3	-.450492	1	.121962 - 2	.241600 - 1	.173880
2.8	.138733 - 1	.196911 - 1	-.881488 - 3	-.457410	1	.139345 - 2	.278750 - 1	.173983
3.0	.139356 - 1	.229981 - 1	-.101813 - 2	-.463387	1	.157579 - 2	.318383 - 1	.174157
3.2	.139841 - 1	.265572 - 1	-.116245 - 2	-.468592	1	.176626 - 2	.360500 - 1	.174377
3.4	.140217 - 1	.303677 - 1	-.131401 - 2	-.473160	1	.196445 - 2	.405100 - 1	.174623
3.6	.140510 - 1	.344293 - 1	-.147240 - 2	-.477196	1	.216997 - 2	.452181 - 1	.174884
3.8	.140736 - 1	.387416 - 1	-.163722 - 2	-.480785	1	.238243 - 2	.501745 - 1	.175152
4.0	.140910 - 1	.433042 - 1	-.180806 - 2	-.483993	1	.260145 - 2	.553792 - 1	.175421
4.2	.141042 - 1	.481169 - 1	-.198452 - 2	-.486878	1	.282663 - 2	.608321 - 1	.175687
4.4	.141139 - 1	.531796 - 1	-.216619 - 2	-.489483	1	.305758 - 2	.665333 - 1	.175948
4.6	.141209 - 1	.584921 - 1	-.235268 - 2	-.491846	1	.329393 - 2	.724828 - 1	.176202
4.8	.141256 - 1	.640542 - 1	-.254319 - 2	-.493998	1	.353527 - 2	.786808 - 1	.176448
5.0	.141284 - 1	.698660 - 1	-.273852 - 2	-.495967	1	.378123 - 2	.851272 - 1	.176686
5.2	.141297 - 1	.759272 - 1	-.293709 - 2	-.497773	1	.403141 - 2	.918222 - 1	.176916
5.4	.141297 - 1	.822378 - 1	-.313889 - 2	-.499435	1	.428543 - 2	.987657 - 1	.177137
5.6	.141287 - 1	.887978 - 1	-.334353 - 2	-.500970	1	.454290 - 2	.105958	.177350
5.8	.141268 - 1	.956072 - 1	-.355063 - 2	-.502392	1	.480344 - 2	.113399	.177554
6.0	.141241 - 1	.102666	-.375979 - 2	-.503712	1	.506665 - 2	.121088	.177750
6.2	.141209 - 1	.109974	-.397062 - 2	-.504940	1	.533214 - 2	.129026	.177938

Z = - 34, A = 80

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.964921 - 1	.390615 - 1	-.353442 - 2	.324288	.169218 - 1	.170127	.405785	1
.6	.228216	.116962	-.105356 - 1	.219366	.381869 - 1	.385406	.561752	1
.8	.328185	.224374	-.200940 - 1	.170714	.595158 - 1	.603850	.755169	1
1.0	.395250	.350200	-.311494 - 1	.142098	.795081 - 1	.811709	.976508	1
1.2	.439608	.486909	-.429815 - 1	.123080	.980387 - 1	.100782	.122543	2
1.4	.469325	.629858	-.551459 - 1	.109457	.115283	.119395	.150432	2
1.6	.489606	.776301	-.673796 - 1	.991899 - 1	.131453	.137219	.181718	2
1.8	.503693	.924641	-.795297 - 1	.911628 - 1	.146731	.154433	.216952	2
2.0	.513620	.107395 1	-.915077 - 1	.847085 - 1	.161261	.171177	.256857	2
2.2	.520691	.122370 1	-.103262	.794030 - 1	.175149	.187556	.302376	2
2.4	.525756	.137358 1	-.114765	.749632 - 1	.188478	.203649	.354743	2
2.6	.529386	.152343 1	-.125999	.711925 - 1	.201310	.219518	.415599	2
2.8	.531971	.167314 1	-.136955	.679497 - 1	.213691	.235206	.487168	2
3.0	.533786	.182268 1	-.17630	.651311 - 1	.225658	.250751	.572531	2
3.2	.535025	.197203 1	-.158021	.626585 - 1	.237237	.266178	.676087	2
3.4	.535826	.212118 1	-.168130	.604718 - 1	.248453	.281509	.804336	2
3.6	.536295	.227016 1	-.177956	.585243 - 1	.259322	.296762	.967297	2
3.8	.536508	.241896 1	-.187501	.567788 - 1	.269858	.311950	.118127	3
4.0	.536522	.256762 1	-.196767	.552054 - 1	.280074	.327085	.147464	3
4.2	.536381	.271614 1	-.205755	.537800 - 1	.289977	.342177	.190170	3
4.4	.536120	.286456 1	-.214466	.524827 - 1	.299577	.357232	.258082	3
4.6	.535766	.301288 1	-.222904	.512971 - 1	.308880	.372257	.382870	3
4.8	.535337	.316112 1	-.231069	.502094 - 1	.317891	.387258	.607487	3
5.0	.534851	.330931 1	-.238962	.492080 - 1	.326614	.402240	.256335	4
5.2	.534321	.345745 1	-.246585	.482832 - 1	.335054	.417207	-.168824	4
5.4	.533756	.360557 1	-.253939	.474265 - 1	.343214	.432162	-.665793	3
5.6	.533165	.375368 1	-.261026	.466309 - 1	.351098	.447108	-.426136	3
5.8	.532555	.390179 1	-.267845	.458899 - 1	.358706	.462049	-.319160	3
6.0	.531930	.404991 1	-.274399	.451983 - 1	.366042	.476986	-.258565	3
6.2	.531296	.419807 1	-.280688	.445514 - 1	.373107	.491922	-.219557	3

Z = - 34, A = 80

p	F	f ₂	g ₂	tanΔ ₂		f ₋₂	g ₋₂	tanΔ ₋₂
.4	.319850 - 2	.681967 - 4	-.349502 - 5	-.136496	1	.190921 - 4	.337096 - 3	.344252
.6	.647162 - 2	.300501 - 3	-.153279 - 4	-.205975	1	.597258 - 4	.105905 - 2	.253304
.8	.878756 - 2	.765049 - 3	-.387866 - 4	-.219217	1	.120515 - 3	.214875 - 2	.217626
1.0	.103193 - 1	.149144 - 2	-.750741 - 4	-.300499	1	.198557 - 3	.356320 - 2	.200445
1.2	.113380 - 1	.248967 - 2	-.124326 - 3	-.332618	1	.291749 - 3	.527346 - 2	.191312
1.4	.120304 - 1	.376101 - 2	-.186201 - 3	-.357879	1	.398648 - 3	.726106 - 2	.106200
1.6	.125129 - 1	.530354 - 2	-.260182 - 3	-.377992	1	.518232 - 3	.951841 - 2	.183260
1.8	.128568 - 1	.711455 - 2	-.345711 - 3	-.394222	1	.649736 - 3	.120368 - 1	.181568
2.0	.131071 - 1	.919101 - 2	-.442231 - 3	-.407496	1	.792539 - 3	.148138 - 1	.180622
2.2	.132924 - 1	.115319 - 1	-.549209 - 3	-.418490	1	.946107 - 3	.178471 - 1	.180137
2.4	.134315 - 1	.141342 - 1	-.666134 - 3	-.427705	1	.110991 - 2	.211317 - 1	.179940
2.6	.135372 - 1	.169968 - 1	-.792514 - 3	-.435514	1	.128363 - 2	.246787 - 1	.179923
2.8	.136182 - 1	.201185 - 1	-.927874 - 3	-.442198	1	.146669 - 2	.284758 - 1	.180033
3.0	.136807 - 1	.234986 - 1	-.107175 - 2	-.447971	1	.165870 - 2	.325267 - 1	.180212
3.2	.137291 - 1	.271361 - 1	-.122370 - 2	-.452998	1	.185926 - 2	.368313 - 1	.180439
3.4	.137666 - 1	.310306 - 1	-.138327 - 2	-.457410	1	.206794 - 2	.413895 - 1	.180693
3.6	.137956 - 1	.351815 - 1	-.155003 - 2	-.461308	1	.228434 - 2	.462012 - 1	.180962
3.8	.138180 - 1	.395886 - 1	-.172354 - 2	-.464773	1	.250003 - 2	.512004 - 1	.181239
4.0	.138350 - 1	.442514 - 1	-.190338 - 2	-.467871	1	.273860 - 2	.565853 - 1	.181516
4.2	.138478 - 1	.491698 - 1	-.208913 - 2	-.470656	1	.297566 - 2	.621577 - 1	.181791
4.4	.138571 - 1	.543434 - 1	-.228036 - 2	-.473171	1	.321879 - 2	.679838 - 1	.182060
4.6	.138637 - 1	.597723 - 1	-.247664 - 2	-.475453	1	.346758 - 2	.740636 - 1	.182322
4.8	.138680 - 1	.654562 - 1	-.267758 - 2	-.477531	1	.372163 - 2	.803971 - 1	.182577
5.0	.138704 - 1	.713951 - 1	-.288274 - 2	-.479431	1	.398051 - 2	.869844 - 1	.182823
5.2	.138712 - 1	.775888 - 1	-.309171 - 2	-.481174	1	.424384 - 2	.938256 - 1	.183060
5.4	.138708 - 1	.840374 - 1	-.330408 - 2	-.482779	1	.451120 - 2	.100921	.183288
5.6	.138693 - 1	.907407 - 1	-.351943 - 2	-.484261	1	.478217 - 2	.108270	.183507
5.8	.138670 - 1	.976987 - 1	-.373735 - 2	-.485633	1	.505636 - 2	.111873	.18318
6.0	.138639 - 1	.104911	-.395743 - 2	-.486907	1	.533336 - 2	.123730	.183920
6.2	.138603 - 1	.112379	-.417926 - 2	-.488093	1	.561275 - 2	.131841	.184115

Z = - 35, A = 79

p	$\bar{F}$	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.897613 - 1	.379793 - 1	-.355088 - 2	.336588	.167958 - 1	.163916	.402357	1
.6	.219037	.115064	-.107113 - 1	.227463	.384967 - 1	.377196	.553314	1
.8	.319131	.221794	-.205315 - 1	.177130	.604043 - 1	.594882	.743333	1
1.0	.386866	.346996	-.319110 - 1	.147588	.809784 - 1	.802300	.962397	1
1.2	.431848	.483081	-.441017 - 1	.127973	.100059	.997989	.121038	2
1.4	.462035	.625379	-.566428 - 1	.113929	.117819	.118362	.149009	2
1.6	.482644	.771131	-.692621 - 1	.103349	.134475	.136128	.180618	2
1.8	.496952	.918738	-.818016 - 1	.950781 - 1	.150214	.153275	.216506	2
2.0	.507023	.106727 1	-.941704 - 1	.884288 - 1	.165186	.169945	.257525	2
2.2	.514181	.121621 1	-.106316	.829634 - 1	.179503	.186244	.304802	2
2.4	.519294	.136525 1	-.118209	.783902 - 1	.193250	.202253	.359846	2
2.6	.522944	.151421 1	-.129833	.745062 - 1	.206492	.218033	.424706	2
2.8	.525530	.166302 1	-.141180	.711662 - 1	.219276	.233630	.502240	2
3.0	.527331	.181162 1	-.152244	.682632 - 1	.231641	.249079	.596542	2
3.2	.528546	.196002 1	-.163025	.657166 - 1	.243617	.264409	.713693	2
3.4	.529316	.210820 1	-.173524	.634645 - 1	.255226	.279640	.863128	2
3.6	.529749	.225618 1	-.183741	.614587 - 1	.266487	.294791	.106031	3
3.8	.529922	.240397 1	-.193677	.596610 - 1	.277414	.309876	.133249	3
4.0	.529894	.255160 1	-.203336	.580406 - 1	.288021	.324907	.173247	3
4.2	.529710	.269909 1	-.212717	.565727 - 1	.298316	.339891	.237792	3
4.4	.529405	.284645 1	-.221824	.552366 - 1	.308308	.354839	.359492	3
4.6	.529005	.299371 1	-.230659	.540156 - 1	.318003	.369756	.674606	3
4.8	.528532	.314088 1	-.239222	.528954 - 1	.327408	.384647	.342910	4
5.0	.528002	.328799 1	-.247516	.518641 - 1	.336528	.399519	-.124437	4
5.2	.527427	.343504 1	-.255542	.509117 - 1	.35365	.414374	-.551119	3
5.4	.526819	.358206 1	-.263301	.500294 - 1	.353925	.429217	-.363577	3
5.6	.526185	.372906 1	-.270794	.492100 - 1	.362210	.444051	-.276273	3
5.8	.525532	.387606 1	-.278023	.484469 - 1	.370222	.458878	-.225788	3
6.0	.524866	.402306 1	-.284989	.477346 - 1	.377964	.473701	-.192884	3
6.2	.524191	.417009 1	-.291692	.470684 - 1	.385439	.488522	-.169737	3

Z = - 35, A = 79

p	$\bar{F}$	f_2	g_2	$\tan \Delta_2$		f_{-2}	g_{-2}	$\tan \Delta_{-2}$
.4	.299727 - 2	.659131 - 4	-.349026 - 5	-.131045	1	.189470 - 4	.324888 - 3	.356879
.6	.621256 - 2	.293555 - 3	-.154739 - 4	-.198828	1	.600001 - 4	.103310 - 2	.262048
.8	.852160 - 2	.750764 - 3	-.393427 - 4	-.250625	1	.121706 - 3	.210675 - 2	.225034
1.0	.100590 - 1	.146702 - 2	-.763487 - 4	-.290649	1	.201083 - 3	.350263 - 2	.207244
1.2	.110846 - 1	.245220 - 2	-.126643 - 3	-.321786	1	.295973 - 3	.519155 - 2	.197800
1.4	.117830 - 1	.370747 - 2	-.189889 - 3	-.346257	1	.404896 - 3	.715575 - 2	.192511
1.6	.122699 - 1	.523083 - 2	-.265568 - 3	-.365733	1	.526816 - 3	.938482 - 2	.189471
1.8	.126171 - 1	.701951 - 2	-.353119 - 3	-.381442	1	.660957 - 3	.118727 - 1	.187722
2.0	.128696 - 1	.907085 - 2	-.451988 - 3	-.394286	1	.806698 - 3	.146158 - 1	.186745
2.2	.130565 - 1	.113826 - 1	-.561642 - 3	-.404922	1	.963505 - 3	.176122 - 1	.186242
2.4	.131966 - 1	.139528 - 1	-.681572 - 3	-.413835	1	.113090 - 2	.208604 - 1	.186038
2.6	.133029 - 1	.167802 - 1	-.811289 - 3	-.421387	1	.130842 - 2	.243598 - 1	.186025
2.8	.133842 - 1	.198634 - 1	-.950324 - 3	-.427850	1	.149565 - 2	.281100 - 1	.186133
3.0	.134468 - 1	.232015 - 1	-.109822 - 2	-.433431	1	.169216 - 2	.321106 - 1	.186318
3.2	.134952 - 1	.267938 - 1	-.125453 - 2	-.438292	1	.189753 - 2	.363616 - 1	.186551
3.4	.135326 - 1	.306397 - 1	-.141881 - 2	-.442557	1	.211136 - 2	.408627 - 1	.186813
3.6	.135614 - 1	.347388 - 1	-.159064 - 2	-.446324	1	.233324 - 2	.456141 - 1	.187091
3.8	.135834 - 1	.390906 - 1	-.176959 - 2	-.449674	1	.256277 - 2	.506157 - 1	.187376
4.0	.136001 - 1	.436948 - 1	-.195523 - 2	-.452668	1	.279954 - 2	.558674 - 1	.187662
4.2	.136125 - 1	.485512 - 1	-.214716 - 2	-.455359	1	.304314 - 2	.613694 - 1	.187945
4.4	.136215 - 1	.536595 - 1	-.234494 - 2	-.457790	1	.329319 - 2	.671216 - 1	.188223
4.6	.136276 - 1	.590196 - 1	-.254818 - 2	-.459995	1	.354927 - 2	.731241 - 1	.188493
4.8	.136314 - 1	.646314 - 1	-.275646 - 2	-.462003	1	.381098 - 2	.793770 - 1	.188756
5.0	.136334 - 1	.704948 - 1	-.296937 - 2	-.463839	1	.407793 - 2	.858803 - 1	.189009
5.2	.136338 - 1	.766096 - 1	-.318650 - 2	-.465524	1	.434970 - 2	.926340 - 1	.189254
5.4	.136330 - 1	.829759 - 1	-.340744 - 2	-.467075	1	.462591 - 2	.996382 - 1	.189489
5.6	.136311 - 1	.895935 - 1	-.363179 - 2	-.468507	1	.490615 - 2	.106893	.189716
5.8	.136283 - 1	.964624 - 1	-.385913 - 2	-.469832	1	.519002 - 2	.114398	.189933
6.0	.136248 - 1	.103583	-.408908 - 2	-.471063	1	.547712 - 2	.122154	.190142
6.2	.136207 - 1	.110954	-.432121 - 2	-.472209	1	.576704 - 2	.130161	.190342

$z = -36, A = 82$

p	F_0	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.834067 - 1	.369115 - 1	-.355654 - 2	.349110	.166437 - 1	.157851	.399544	1
.6	.210032	.113158	-.108567 - 1	.235668	.387561 - 1	.369008	.545628	1
.8	.310067	.219176	-.209128 - 1	.183630	.612204 - 1	.585839	.732460	1
1.0	.378361	.343719	-.325849 - 1	.153153	.823543 - 1	.792745	.949490	1
1.2	.423900	.479146	-.450976 - 1	.132936	.101961	.987954	.119682	2
1.4	.454515	.620758	-.579738 - 1	.118470	.120207	.117305	.147772	2
1.6	.475425	.765786	-.709324 - 1	.107575	.137315	.135008	.179757	2
1.8	.489934	.912627	-.838108 - 1	.990599 - 1	.153479	.152086	.216379	2
2.0	.500133	.106036	1 -.965154 - 1	.922150 - 1	.168851	.168680	.258641	2
2.2	.507368	.120846	1 -.108993	.865894 - 1	.183551	.184899	.307891	2
2.4	.512521	.135662	1 -.121213	.818823 - 1	.197665	.200822	.365971	2
2.6	.516185	.150469	1 -.133160	.778850 - 1	.211261	.216513	.435450	2
2.8	.518766	.165257	1 -.144824	.744476 - 1	.224390	.232018	.520020	2
3.0	.520550	.180023	1 -.156202	.714600 - 1	.237091	.247372	.625170	2
3.2	.521737	.194766	1 -.167293	.688394 - 1	.249395	.262605	.759432	2
3.4	.522474	.209487	1 -.178097	.665219 - 1	.261326	.277738	.936819	2
3.6	.522868	.224185	1 -.188616	.644579 - 1	.272903	.292789	.118207	3
3.8	.523000	.238864	1 -.198852	.626080 - 1	.284142	.307773	.154334	3
4.0	.522928	.253525	1 -.208806	.609406 - 1	.295056	.322701	.212844	3
4.2	.522700	.268171	1 -.218481	.594301 - 1	.305655	.337583	.323883	3
4.4	.522350	.282804	1 -.227879	.580554 - 1	.315947	.352427	.615822	3
4.6	.521905	.297426	1 -.237002	.567990 - 1	.325940	.367239	.347346	4
4.8	.521386	.312038	1 -.245851	.556465 - 1	.335640	.382026	-.106791	4
5.0	.520810	.326643	1 -.254429	.545854 - 1	.345051	.396792	-.484829	3
5.2	.520191	.341243	1 -.262736	.536054 - 1	.354178	.411542	-.322369	3
5.4	.519539	.355839	1 -.270775	.526977 - 1	.363026	.426279	-.246033	3
5.6	.518862	.370433	1 -.278546	.518546 - 1	.371596	.441007	-.201683	3
5.8	.518167	.385026	1 -.286052	.510695 - 1	.379892	.455728	-.172695	3
6.0	.517459	.399620	1 -.293292	.503367 - 1	.387916	.470445	-.152264	3
6.2	.516743	.414216	1 -.300268	.496512 - 1	.395671	.485160	-.137087	3

Z = - 36, A = 82

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.280696 - 2	.647590 - 4	-.353345 - 5	-.125851	1	.190958 - 4	.318279 - 3	.369726
.6	.596121 - 2	.291526 - 3	-.158356 - 4	-.192049	1	.612150 - 4	.102446 - 2	.270891
.8	.826052 - 2	.748983 - 3	-.404504 - 4	-.242451	1	.124816 - 3	.209983 - 2	.232512
1.0	.980160 - 2	.146698 - 2	-.786922 - 4	-.281328	1	.206781 - 3	.350027 - 2	.214103
1.2	.108331 - 1	.245543 - 2	-.130724 - 3	-.311542	1	.304850 - 3	.519584 - 2	.204341
1.4	.115367 - 1	.371545 - 2	-.196199 - 3	-.335270	1	.417477 - 3	.716830 - 2	.198875
1.6	.120275 - 1	.524491 - 2	-.274583 - 3	-.354144	1	.543582 - 3	.940695 - 2	.195735
1.8	.123776 - 1	.704094 - 2	-.365297 - 3	-.369364	1	.682361 - 3	.119055 - 1	.193928
2.0	.126321 - 1	.910080 - 2	-.467772 - 3	-.381803	1	.833174 - 3	.146604 - 1	.192918
2.2	.128202 - 1	.114221 - 1	-.581459 - 3	-.392101	1	.995473 - 3	.176695 - 1	.192399
2.4	.129612 - 1	.140031 - 1	-.705838 - 3	-.400730	1	.116876 - 2	.209313 - 1	.192188
2.6	.130680 - 1	.168420 - 1	-.840408 - 3	-.408040	1	.135259 - 2	.244453 - 1	.192173
2.8	.131496 - 1	.199378 - 1	-.984688 - 3	-.414295	1	.154650 - 2	.282108 - 1	.192284
3.0	.132122 - 1	.232895 - 1	-.113821 - 2	-.419696	1	.175008 - 2	.322277 - 1	.192474
3.2	.132605 - 1	.268964 - 1	-.130052 - 2	-.424399	1	.196290 - 2	.364957 - 1	.192714
3.4	.132977 - 1	.307577 - 1	-.147118 - 2	-.428526	1	.218454 - 2	.410147 - 1	.192984
3.6	.133262 - 1	.348730 - 1	-.164973 - 2	-.432171	1	.241459 - 2	.457848 - 1	.193270
3.8	.133479 - 1	.392419 - 1	-.183576 - 2	-.435411	1	.265264 - 2	.508058 - 1	.193564
4.0	.133643 - 1	.438641 - 1	-.202882 - 2	-.438308	1	.289827 - 2	.560779 - 1	.193859
4.2	.133763 - 1	.487393 - 1	-.222850 - 2	-.440911	1	.315109 - 2	.616010 - 1	.194151
4.4	.133848 - 1	.538673 - 1	-.243437 - 2	-.443262	1	.341068 - 2	.673752 - 1	.194437
4.6	.133905 - 1	.592480 - 1	-.264601 - 2	-.445395	1	.367662 - 2	.734005 - 1	.194716
4.8	.133939 - 1	.648812 - 1	-.286301 - 2	-.447337	1	.394853 - 2	.796770 - 1	.194986
5.0	.133954 - 1	.707667 - 1	-.308494 - 2	-.449113	1	.422598 - 2	.862046 - 1	.195248
5.2	.133953 - 1	.769046 - 1	-.331139 - 2	-.450742	1	.450857 - 2	.929835 - 1	.195500
5.4	.133940 - 1	.832947 - 1	-.354195 - 2	-.452242	1	.479589 - 2	.100014	.195742
5.6	.133917 - 1	.899369 - 1	-.377621 - 2	-.453627	1	.508754 - 2	.107295	.195976
5.8	.133884 - 1	.968313 - 1	-.401374 - 2	-.454909	1	.538310 - 2	.114828	.196200
6.0	.133845 - 1	.103978	-.425414 - 2	-.456099	1	.568218 - 2	.122613	.196415
6.2	.133799 - 1	.111377	-.449700 - 2	-.457207	1	.598436 - 2	.130649	.196622

Z = - 37, A = 85

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.774995 - 1	.358762 - 1	-.355955 - 2	.361865	.164795 - 1	.152003	.397323	1
.6	.201425	.111300	-.109966 - 1	.243983	.389889 - 1	.361012	.538646	1
.8	.301332	.216625	-.212873 - 1	.190214	.620052 - 1	.576982	.722486	1
1.0	.370149	.340533	-.332513 - 1	.158792	.836983 - 1	.783390	.937707	1
1.2	.416227	.475326	-.460855 - 1	.137970	.103831	.978140	.118465	2
1.4	.447259	.616277	-.592965 - 1	.123080	.122564	.116271	.146712	2
1.6	.468464	.760606	-.725939 - 1	.111868	.140124	.133915	.179125	2
1.8	.483169	.906707	-.858103 - 1	.103108	.156711	.150927	.216567	2
2.0	.493494	.105366 1	-.988498 - 1	.960666 - 1	.172484	.167447	.260212	2
2.2	.500802	.120094 1	-.111658	.902803 - 1	.187564	.183587	.311672	2
2.4	.505992	.134826 1	-.124204	.854391 - 1	.202044	.199428	.373200	2
2.6	.509668	.149545 1	-.136471	.813281 - 1	.215993	.215031	.448027	2
2.8	.512242	.164243 1	-.148452	.777931 - 1	.229465	.230446	.540954	2
3.0	.514006	.178917 1	-.160142	.747209 - 1	.242499	.245708	.659420	2
3.2	.515164	.193566 1	-.171541	.720260 - 1	.255130	.260846	.815602	2
3.4	.515865	.208190 1	-.182649	.696429 - 1	.267381	.275883	.103090	3
3.6	.516220	.222791 1	-.193469	.675205 - 1	.279273	.290836	.134669	3
3.8	.516309	.237372 1	-.204002	.656184 - 1	.290821	.305720	.185474	3
4.0	.516193	.251934 1	-.214251	.639040 - 1	.302041	.320548	.280746	3
4.2	.515918	.266479 1	-.224217	.623509 - 1	.312941	.335329	.524307	3
4.4	.515521	.281010 1	-.233904	.609374 - 1	.323531	.350071	.247758	4
4.6	.515030	.295530 1	-.243313	.596456 - 1	.333819	.364781	-.103212	4
4.8	.514464	.310039 1	-.252446	.584606 - 1	.343811	.379464	-.449089	3
5.0	.513843	.324541 1	-.261305	.573697 - 1	.353513	.394127	-.295526	3
5.2	.513178	.339037 1	-.269893	.563621 - 1	.362928	.408773	-.224628	3
5.4	.512481	.353529 1	-.278210	.554289 - 1	.372061	.423407	-.183799	3
5.6	.511760	.368018 1	-.286258	.545621 - 1	.380915	.438030	-.157254	3
5.8	.511022	.382507 1	-.294038	.537550 - 1	.389493	.452647	-.138613	3
6.0	.510272	.396996 1	-.301552	.530016 - 1	.397798	.467260	-.124801	3
6.2	.509514	.411487 1	-.308800	.522969 - 1	.405831	.481871	-.114156	3

Z = - 37, A = 85

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.262850 - 2	.635977 - 4	-.357268 - 5	-.120891 1	.192213 - 4	.311649 - 3	.382802
.6	.572051 - 2	.289404 - 3	-.161863 - 4	-.185609 1	.623806 - 4	.101548 - 2	.279835
.8	.800857 - 2	.746939 - 3	-.415398 - 4	-.234698 1	.127857 - 3	.209214 - 2	.240061
1.0	.955242 - 2	.146642 - 2	-.810111 - 4	-.272494 1	.212397 - 3	.349663 - 2	.221024
1.2	.105892 - 1	.245782 - 2	-.134775 - 3	-.301837 1	.313635 - 3	.519825 - 2	.210938
1.4	.112975 - 1	.372214 - 2	-.202475 - 3	-.324865 1	.429955 - 3	.717828 - 2	.205294
1.6	.117921 - 1	.525718 - 2	-.283561 - 3	-.343173 1	.500235 - 3	.942573 - 2	.202052
1.8	.121448 - 1	.705994 - 2	-.377436 - 3	-.357929 1	.703643 - 3	.119342 - 1	.200187
2.0	.124011 - 1	.912761 - 2	-.483513 - 3	-.369987 1	.859519 - 3	.146999 - 1	.199144
2.2	.125905 - 1	.114578 - 1	-.601233 - 3	-.379967 1	.102730 - 2	.177205 - 1	.198607
2.4	.127322 - 1	.140484 - 1	-.730059 - 3	-.388327 1	.120648 - 2	.209949 - 1	.198389
2.6	.128395 - 1	.168981 - 1	-.869480 - 3	-.395409 1	.139659 - 2	.245221 - 1	.198372
2.8	.129212 - 1	.200054 - 1	-.101901 - 2	-.401468 1	.159718 - 2	.283016 - 1	.198486
3.0	.129839 - 1	.233695 - 1	-.117816 - 2	-.406699 1	.180781 - 2	.323333 - 1	.198682
3.2	.130320 - 1	.269895 - 1	-.134648 - 2	-.411254 1	.202806 - 2	.366168 - 1	.198929
3.4	.130690 - 1	.308648 - 1	-.152350 - 2	-.415250 1	.225750 - 2	.411521 - 1	.199207
3.6	.130972 - 1	.349949 - 1	-.170879 - 2	-.418779 1	.249571 - 2	.459391 - 1	.199501
3.8	.131186 - 1	.393793 - 1	-.190190 - 2	-.421916 1	.274220 - 2	.509779 - 1	.199804
4.0	.131345 - 1	.440178 - 1	-.210239 - 2	-.424721 1	.299677 - 2	.562683 - 1	.200107
4.2	.131461 - 1	.489101 - 1	-.230983 - 2	-.427241 1	.325879 - 2	.618106 - 1	.200408
4.4	.131542 - 1	.540559 - 1	-.252379 - 2	-.429517 1	.352792 - 2	.676046 - 1	.200703
4.6	.131594 - 1	.594552 - 1	-.274385 - 2	-.431582 1	.380373 - 2	.736504 - 1	.200990
4.8	.131623 - 1	.651076 - 1	-.296958 - 2	-.433462 1	.408583 - 2	.799480 - 1	.201268
5.0	.131634 - 1	.710132 - 1	-.320055 - 2	-.435181 1	.437378 - 2	.864976 - 1	.201538
5.2	.131629 - 1	.771717 - 1	-.343635 - 2	-.436758 1	.466719 - 2	.932992 - 1	.201797
5.4	.131611 - 1	.835833 - 1	-.367655 - 2	-.438210 1	.496563 - 2	.100353	.202047
5.6	.131583 - 1	.902477 - 1	-.392074 - 2	-.439550 1	.526869 - 2	.107658	.202288
5.8	.131546 - 1	.971651 - 1	-.416848 - 2	-.440791 1	.557597 - 2	.115216	.202518
6.0	.131502 - 1	.104335	-.441938 - 2	-.441943 1	.588704 - 2	.123026	.202740
6.2	.131452 - 1	.111758	-.467300 - 2	-.443016 1	.620149 - 2	.131088	.202953

Z = - 38, A = 86

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.720530 - 1	.348821 - 1	-.356363 - 2	.374859	.163092 - 1	.146403	.395675	1
.6	.193316	.109519	-.111429 - 1	.252410	.392086 - 1	.353292	.532326	1
.8	.293090	.214199	-.216786 - 1	.196883	.627817 - 1	.568451	.713352	1
1.0	.362436	.337527	-.339490 - 1	.164506	.850445 - 1	.774422	.926977	1
1.2	.409064	.471744	-.471220 - 1	.143075	.105716	.968775	.117380	2
1.4	.440524	.612093	-.606871 - 1	.127757	.124951	.115289	.145819	2
1.6	.462030	.755781	-.743446 - 1	.116228	.142979	.132880	.178717	2
1.8	.476938	.901198	-.879219 - 1	.107222	.160007	.149829	.217068	2
2.0	.487390	.104743 1	-.101321	.999835 - 1	.176199	.166282	.262249	2
2.2	.494774	.119395 1	-.114485	.940360 - 1	.191680	.182347	.316187	2
2.4	.500002	.134046 1	-.127385	.890602 - 1	.206548	.198109	.381642	2
2.6	.503688	.148682 1	-.140003	.848351 - 1	.220873	.213629	.462697	2
2.8	.506256	.163295 1	-.152331	.812023 - 1	.234712	.228958	.565639	2
3.0	.507998	.177881 1	-.164366	.780451 - 1	.248107	.244130	.700681	2
3.2	.509126	.192439 1	-.176107	.752757 - 1	.261091	.259177	.885578	2
3.4	.509791	.206971 1	-.187556	.728269 - 1	.273692	.274120	.115415	3
3.6	.510104	.221479 1	-.198714	.706460 - 1	.285930	.288977	.157979	3
3.8	.510148	.235964 1	-.209584	.686915 - 1	.297821	.303765	.235718	3
4.0	.509986	.250429 1	-.220168	.669298 - 1	.309381	.318494	.422943	3
4.2	.509664	.264876 1	-.230469	.653339 - 1	.320620	.333175	.150158	4
4.4	.509220	.279308 1	-.240490	.638816 - 1	.331547	.347816	-.113955	4
4.6	.508680	.293727 1	-.250232	.625543 - 1	.342171	.362425	-.437358	3
4.8	.508067	.308136 1	-.259698	.613367 - 1	.352497	.377006	-.279507	3
5.0	.507398	.322536 1	-.268890	.602158 - 1	.362533	.391566	-.209838	3
5.2	.506686	.336930 1	-.277810	.591806 - 1	.372282	.406109	-.170590	3
5.4	.505943	.351319 1	-.286459	.582217 - 1	.381748	.420638	-.145406	3
5.6	.505176	.365705 1	-.294840	.573311 - 1	.390936	.435157	-.127874	3
5.8	.504394	.380089 1	-.302953	.565018 - 1	.399847	.449669	-.114966	3
6.0	.503600	.394474 1	-.310799	.557277 - 1	.408486	.464177	-.105064	3
6.2	.502800	.408860 1	-.318381	.550037 - 1	.416854	.478682	-.972279	2

z = - 38, A = 86

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.246191 - 2	.619640 - 4	-.358375 - 5	-.116148	1	.191802 - 4	.302727 - 3	.396116
.6	.549161 - 2	.285045 - 3	-.164152 - 4	-.179479	1	.630251 - 4	.998648 - 3	.288882
.8	.776772 - 2	.739073 - 3	-.423271 - 4	-.227332	1	.129862 - 3	.206811 - 2	.247684
1.0	.931389 - 2	.145440 - 2	-.827550 - 4	-.264109	1	.216327 - 3	.346559 - 2	.228007
1.2	.103557 - 1	.244096 - 2	-.137888 - 3	-.292629	1	.319968 - 3	.515988 - 2	.217592
1.4	.110686 - 1	.369968 - 2	-.207365 - 3	-.314996	1	.439118 - 3	.713193 - 2	.211760
1.6	.115667 - 1	.522823 - 2	-.290626 - 3	-.332768	1	.572621 - 3	.937051 - 2	.208423
1.8	.119220 - 1	.702356 - 2	-.387065 - 3	-.347088	1	.719626 - 3	.118691 - 1	.206498
2.0	.121802 - 1	.908277 - 2	-.496087 - 3	-.358785	1	.879460 - 3	.146238 - 1	.205422
2.2	.123707 - 1	.114034 - 1	-.617123 - 3	-.368465	1	.105155 - 2	.176323 - 1	.204868
2.4	.125132 - 1	.139834 - 1	-.749633 - 3	-.376572	1	.123540 - 2	.208933 - 1	.204641
2.6	.126209 - 1	.168213 - 1	-.893102 - 3	-.383438	1	.143052 - 2	.244059 - 1	.204624
2.8	.127028 - 1	.199156 - 1	-.104703 - 2	-.389311	1	.163647 - 2	.281696 - 1	.204740
3.0	.127654 - 1	.232655 - 1	-.121095 - 2	-.394382	1	.185280 - 2	.321842 - 1	.204941
3.2	.128134 - 1	.268701 - 1	-.138439 - 2	-.398797	1	.207910 - 2	.364494 - 1	.205195
3.4	.128501 - 1	.307288 - 1	-.156688 - 2	-.402669	1	.231493 - 2	.409650 - 1	.205481
3.6	.128780 - 1	.348410 - 1	-.175799 - 2	-.406089	1	.255987 - 2	.457311 - 1	.205784
3.8	.128990 - 1	.392064 - 1	-.195728 - 2	-.409129	1	.281351 - 2	.507477 - 1	.206095
4.0	.129145 - 1	.438245 - 1	-.216429 - 2	-.411847	1	.307543 - 2	.560146 - 1	.206408
4.2	.129257 - 1	.486951 - 1	-.237861 - 2	-.414289	1	.334521 - 2	.615320 - 1	.206717
4.4	.129333 - 1	.538179 - 1	-.259980 - 2	-.416494	1	.362244 - 2	.672999 - 1	.207021
4.6	.129381 - 1	.591929 - 1	-.282743 - 2	-.418494	1	.390671 - 2	.733183 - 1	.207316
4.8	.129405 - 1	.648198 - 1	-.306108 - 2	-.420316	1	.419760 - 2	.795872 - 1	.207603
5.0	.129411 - 1	.706985 - 1	-.330032 - 2	-.421981	1	.449469 - 2	.861067 - 1	.207880
5.2	.129401 - 1	.768289 - 1	-.354474 - 2	-.423509	1	.479759 - 2	.928768 - 1	.208148
5.4	.129379 - 1	.832110 - 1	-.379391 - 2	-.424915	1	.510586 - 2	.998976 - 1	.208405
5.6	.129346 - 1	.898447 - 1	-.404741 - 2	-.426214	1	.541910 - 2	.107169	.208652
5.8	.129304 - 1	.967299 - 1	-.430483 - 2	-.427416	1	.573691 - 2	.114691	.208890
6.0	.129256 - 1	.103867	-.456574 - 2	-.428532	1	.605885 - 2	.122465	.209118
6.2	.129201 - 1	.111255	-.482973 - 2	-.429570	1	.638452 - 2	.130489	.209337

Z = - 39, A = 89

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.669499 - 1	.339087 - 1	-.356167 - 2	.388103	.161245 - 1	.140969	.394586	1
.6	.185454	.107754	-.112725 - 1	.260952	.393920 - 1	.345667	.526631	1
.8	.284974	.211781	-.220401 - 1	.203637	.635078 - 1	.559957	.705009	1
1.0	.354777	.334519	-.346014 - 1	.170296	.863287 - 1	.765456	.917241	1
1.2	.401911	.468151	-.480954 - 1	.148251	.107527	.959392	.116420	2
1.4	.433773	.607889	-.619946 - 1	.132504	.127250	.114304	.145089	2
1.6	.455563	.750928	-.759898 - 1	.120655	.145731	.131840	.178530	2
1.8	.470660	.895654	-.899037 - 1	.111401	.163181	.148727	.217888	2
2.0	.481231	.104115 1	-.103635	.103966	.179771	.165111	.264775	2
2.2	.488683	.118690 1	-.117128	.978563 - 1	.195632	.181102	.321499	2
2.4	.493944	.133262 1	-.130350	.927456 - 1	.210861	.196785	.391451	2
2.6	.497637	.147815 1	-.143286	.884062 - 1	.225536	.212223	.479814	2
2.8	.500194	.162341 1	-.155926	.846753 - 1	.239714	.227465	.594908	2
3.0	.501912	.176839 1	-.168269	.814329 - 1	.253438	.242550	.750979	2
3.2	.503008	.191308 1	-.180314	.785890 - 1	.266745	.257505	.974606	2
3.4	.503634	.205748 1	-.192063	.760743 - 1	.279660	.272356	.132172	3
3.6	.503904	.220162 1	-.203517	.738348 - 1	.292208	.287120	.193358	3
3.8	.503902	.234553 1	-.214679	.718278 - 1	.304404	.301812	.329966	3
4.0	.503692	.248922 1	-.225553	.700189 - 1	.316264	.316445	.905506	3
4.2	.503322	.263272 1	-.236141	.683802 - 1	.327799	.331028	-.156777	4
4.4	.502828	.277607 1	-.246445	.668890 - 1	.339019	.345572	-.450204	3
4.6	.502239	.291928 1	-.256469	.655261 - 1	.349932	.360081	-.272733	3
4.8	.501578	.306238 1	-.266214	.642760 - 1	.360546	.374564	-.200347	3
5.0	.500861	.320538 1	-.275683	.631251 - 1	.370866	.389024	-.161030	3
5.2	.500102	.334832 1	-.284878	.620622 - 1	.380898	.403467	-.136334	3
5.4	.499312	.349121 1	-.293800	.610777 - 1	.390645	.417896	-.119379	3
5.6	.498500	.363406 1	-.302452	.601634 - 1	.400111	.432314	-.107019	3
5.8	.497672	.377689 1	-.310835	.593120 - 1	.409299	.446726	-.976079	2
6.0	.496835	.391973 1	-.318951	.585173 - 1	.418213	.461133	-.902020	2
6.2	.495992	.406258 1	-.326799	.577740 - 1	.426855	.475538	-.842216	2

Z = - 39, A = 89

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.230502 - 2	.608217 - 4	-.361601 - 5	-.111603	1	.192666 - 4	.296231 - 3	.409678
.6	.527077 - 2	.282857 - 3	-.167457 - 4	-.173636	1	.641033 - 4	.989425 - 3	.298036
.8	.753300 - 2	.736788 - 3	-.433825 - 4	-.220323	1	.132781 - 3	.205968 - 2	.255382
1.0	.908019 - 2	.145334 - 2	-.850279 - 4	-.256138	1	.221795 - 3	.346062 - 2	.235053
1.2	.101262 - 1	.244248 - 2	-.141883 - 3	-.283880	1	.328586 - 3	.516031 - 2	.224305
1.4	.108432 - 1	.370504 - 2	-.213577 - 3	-.305621	1	.451413 - 3	.713918 - 2	.218297
1.6	.113445 - 1	.523861 - 2	-.299531 - 3	-.322888	1	.589075 - 3	.938571 - 2	.214848
1.8	.117021 - 1	.704001 - 2	-.399124 - 3	-.336794	1	.740692 - 3	.118932 - 1	.212863
2.0	.119618 - 1	.910625 - 2	-.511742 - 3	-.348150	1	.905569 - 3	.146576 - 1	.211753
2.2	.121534 - 1	.114348 - 1	-.636802 - 3	-.357545	1	.108312 - 2	.176766 - 1	.211181
2.4	.122965 - 1	.140236 - 1	-.773751 - 3	-.365413	1	.127284 - 2	.209488 - 1	.210947
2.6	.124045 - 1	.168710 - 1	-.922063 - 3	-.372075	1	.147422 - 2	.244733 - 1	.210928
2.8	.124865 - 1	.199757 - 1	-.108123 - 2	-.377773	1	.168682 - 2	.282495 - 1	.211047
3.0	.125491 - 1	.233366 - 1	-.125077 - 2	-.382692	1	.191018 - 2	.322772 - 1	.211254
3.2	.125968 - 1	.269530 - 1	-.143020 - 2	-.386974	1	.214388 - 2	.365561 - 1	.211515
3.4	.126332 - 1	.308241 - 1	-.161906 - 2	-.390730	1	.238748 - 2	.410862 - 1	.211809
3.6	.126608 - 1	.349494 - 1	-.181689 - 2	-.394047	1	.264055 - 2	.458673 - 1	.212120
3.8	.126814 - 1	.393285 - 1	-.202325 - 2	-.396995	1	.290267 - 2	.508994 - 1	.212440
4.0	.126965 - 1	.439610 - 1	-.223768 - 2	-.399630	1	.317342 - 2	.561826 - 1	.212762
4.2	.127072 - 1	.488466 - 1	-.245975 - 2	-.401998	1	.345238 - 2	.617168 - 1	.213080
4.4	.127143 - 1	.539851 - 1	-.268903 - 2	-.404136	1	.373911 - 2	.675020 - 1	.213392
4.6	.127186 - 1	.593764 - 1	-.292507 - 2	-.406076	1	.403322 - 2	.735383 - 1	.213696
4.8	.127206 - 1	.650201 - 1	-.316745 - 2	-.407842	1	.433426 - 2	.798258 - 1	.213991
5.0	.127207 - 1	.709164 - 1	-.341573 - 2	-.409456	1	.464184 - 2	.863644 - 1	.214276
5.2	.127192 - 1	.770649 - 1	-.366949 - 2	-.410938	1	.495552 - 2	.931542 - 1	.214551
5.4	.127165 - 1	.834657 - 1	-.392831 - 2	-.412301	1	.527489 - 2	.100195	.214816
5.6	.127127 - 1	.901187 - 1	-.419175 - 2	-.413559	1	.559952 - 2	.107488	.215070
5.8	.127081 - 1	.970239 - 1	-.445939 - 2	-.414725	1	.592901 - 2	.115032	.215315
6.0	.127028 - 1	.104181	-.473081 - 2	-.415807	1	.626293 - 2	.122827	.215550
6.2	.126969 - 1	.111591	-.500558 - 2	-.416813	1	.660087 - 2	.130874	.215775

Z = - 40, A = 90

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.622490 - 1	.329747 - 1	-.356095 - 2	.401604	.159360 - 1	.135770	.394043	1
.6	.178053	.106064	-.114087 - 1	.269610	.395653 - 1	.338313	.521528	1
.8	.277328	.209486	-.224189 - 1	.210478	.642291 - 1	.551787	.697411	1
1.0	.347601	.331691	-.352858 - 1	.176161	.876193 - 1	.756879	.908444	1
1.2	.395259	.464798	-.491183 - 1	.153497	.109358	.950462	.115580	2
1.4	.427534	.603986	-.633711 - 1	.137318	.129585	.113370	.144516	2
1.6	.449618	.746435	-.777253 - 1	.125149	.148534	.130857	.178560	2
1.8	.464911	.890528	-.919985 - 1	.115647	.166425	.147688	.219029	2
2.0	.475606	.103535 1	-.106087	.108012	.183432	.164008	.267812	2
2.2	.483128	.118038 1	-.119933	.101741	.199691	.179930	.327672	2
2.4	.488422	.132535 1	-.133506	.964948 - 1	.215305	.195538	.402791	2
2.6	.492123	.147009 1	-.146788	.920407 - 1	.230352	.210898	.499792	2
2.8	.494668	.161455 1	-.159772	.882113 - 1	.244892	.226058	.629808	2
3.0	.496362	.175869 1	-.172455	.848836 - 1	.258972	.241058	.813091	2
3.2	.497424	.190251 1	-.184837	.819648 - 1	.272628	.255926	.109075	3
3.4	.498009	.204604 1	-.196920	.793840 - 1	.285887	.270687	.156090	3
3.6	.498235	.218928 1	-.208707	.770858 - 1	.298775	.285359	.252976	3
3.8	.498186	.233227 1	-.220200	.750261 - 1	.311307	.299958	.568692	3
4.0	.497927	.247504 1	-.231403	.731697 - 1	.323501	.314496	-.463010	4
4.2	.497507	.261760 1	-.242319	.714882 - 1	.335368	.328985	-.499548	3
4.4	.496963	.276000 1	-.252951	.699578 - 1	.346918	.343431	-.275869	3
4.6	.496323	.290225 1	-.263301	.685594 - 1	.358160	.357843	-.195825	3
4.8	.495611	.304438 1	-.273372	.672765 - 1	.369102	.372227	-.154686	3
5.0	.494845	.318641 1	-.283167	.660955 - 1	.379749	.386588	-.129633	3
5.2	.494037	.332836 1	-.292687	.650049 - 1	.390106	.400931	-.112773	3
5.4	.493199	.347025 1	-.301934	.639946 - 1	.400179	.415260	-.100650	3
5.6	.492340	.361211 1	-.310912	.630564 - 1	.409972	.429578	-.915137	2
5.8	.491466	.375394 1	-.319620	.621827 - 1	.419486	.443888	-.843806	2
6.0	.490584	.389577 1	-.328061	.613673 - 1	.428727	.458194	-.786564	2
6.2	.489696	.403761 1	-.336236	.606046 - 1	.437695	.472497	-.739609	2

Z = - 40, A = 90

P	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.215863 - 2	.592518 - 4	-.362115 - 5	-.107242	1	.191946 - 4	.287677 - 3	.423499
.6	.506083 - 2	.278591 - 3	-.169559 - 4	-.168058	1	.646718 - 4	.972933 - 3	.307299
.8	.730870 - 2	.729040 - 3	-.441362 - 4	-.213645	1	.134674 - 3	.203595 - 2	.263155
1.0	.885662 - 2	.144147 - 2	-.867233 - 4	-.248548	1	.225586 - 3	.342988 - 2	.242164
1.2	.990667 - 2	.242580 - 2	-.144932 - 3	-.275556	1	.334756 - 3	.512224 - 2	.231077
1.4	.106276 - 1	.368279 - 2	-.218387 - 3	-.296704	1	.460389 - 3	.709313 - 2	.224883
1.6	.111320 - 1	.520991 - 2	-.306499 - 3	-.313491	1	.601248 - 3	.933080 - 2	.221328
1.8	.114919 - 1	.700390 - 2	-.408636 - 3	-.327006	1	.756433 - 3	.118284 - 1	.219283
2.0	.117532 - 1	.906171 - 2	-.524175 - 3	-.338040	1	.925237 - 3	.145818 - 1	.218138
2.2	.119458 - 1	.113807 - 1	-.652527 - 3	-.347166	1	.110707 - 2	.175886 - 1	.217548
2.4	.120895 - 1	.139589 - 1	-.793131 - 3	-.354806	1	.130140 - 2	.208474 - 1	.217306
2.6	.121977 - 1	.167945 - 1	-.945457 - 3	-.361275	1	.150775 - 2	.243573 - 1	.217286
2.8	.122798 - 1	.198862 - 1	-.110900 - 2	-.366807	1	.172566 - 2	.281177 - 1	.217408
3.0	.123423 - 1	.232329 - 1	-.128325 - 2	-.371582	1	.195467 - 2	.321283 - 1	.217620
3.2	.123899 - 1	.268338 - 1	-.146776 - 2	-.375739	1	.219435 - 2	.363888 - 1	.217888
3.4	.124260 - 1	.306883 - 1	-.166204 - 2	-.379384	1	.244428 - 2	.408991 - 1	.218189
3.6	.124531 - 1	.347956 - 1	-.186564 - 2	-.382603	1	.270401 - 2	.456592 - 1	.218510
3.8	.124733 - 1	.391555 - 1	-.207811 - 2	-.385464	1	.297314 - 2	.506689 - 1	.218838
4.0	.124880 - 1	.437675 - 1	-.229901 - 2	-.388021	1	.325122 - 2	.559284 - 1	.219169
4.2	.124982 - 1	.486313 - 1	-.252789 - 2	-.390319	1	.353786 - 2	.614376 - 1	.219496
4.4	.125049 - 1	.537467 - 1	-.276431 - 2	-.392394	1	.383261 - 2	.671965 - 1	.219817
4.6	.125087 - 1	.591135 - 1	-.300785 - 2	-.394276	1	.413507 - 2	.732052 - 1	.220130
4.8	.125102 - 1	.647316 - 1	-.325808 - 2	-.395989	1	.444482 - 2	.794636 - 1	.220433
5.0	.125098 - 1	.706000 - 1	-.351455 - 2	-.397556	1	.476143 - 2	.859719 - 1	.220726
5.2	.125078 - 1	.767209 - 1	-.377684 - 2	-.398993	1	.508449 - 2	.927301 - 1	.221009
5.4	.125046 - 1	.830920 - 1	-.404454 - 2	-.400315	1	.541358 - 2	.997382 - 1	.221281
5.6	.125003 - 1	.897140 - 1	-.431720 - 2	-.401536	1	.574828 - 2	.106996	.221543
5.8	.124952 - 1	.965868 - 1	-.459441 - 2	-.402667	1	.608817 - 2	.114504	.221794
6.0	.124895 - 1	.103710	-.487575 - 2	-.403716	1	.643284 - 2	.122263	.222036
6.2	.124831 - 1	.111085	-.516079 - 2	-.404693	1	.678187 - 2	.130271	.222267

Z = - 41, A = 91

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.578825 - 1	.320694 - 1	-.355802 - 2	.415374	.157399 - 1	.130763	.394043	1
.6	.170984	.104418	-.115402 - 1	.278388	.397173 - 1	.331138	.516988	1
.8	.269966	.207255	-.227921 - 1	.217406	.649250 - 1	.543795	.690520	1
1.0	.340684	.328951	-.359645 - 1	.182103	.888846 - 1	.748494	.900541	1
1.2	.388853	.461559	-.501357 - 1	.158815	.111166	.941748	.114855	2
1.4	.421537	.600223	-.647422 - 1	.142201	.131897	.112461	.144096	2
1.6	.443912	.742108	-.794553 - 1	.129710	.151316	.129902	.178807	2
1.8	.459398	.885593	-.940872 - 1	.119958	.169646	.146678	.220502	2
2.0	.470214	.102976 1	-.108532	.112124	.187070	.162938	.271392	2
2.2	.477805	.117410 1	-.122731	.105690	.203727	.178792	.334795	2
2.4	.483131	.131834 1	-.136652	.100308	.219723	.194328	.415889	2
2.6	.486837	.146233 1	-.150278	.957386 - 1	.235141	.209612	.523203	2
2.8	.489369	.160599 1	-.163603	.918105 - 1	.250042	.224692	.671835	2
3.0	.491036	.174932 1	-.176624	.883971 - 1	.264475	.239609	.891263	2
3.2	.492062	.189231 1	-.189341	.854033 - 1	.278477	.254391	.124780	3
3.4	.492606	.203497 1	-.201756	.827563 - 1	.292078	.269065	.192822	3
3.6	.492786	.217734 1	-.213873	.803991 - 1	.305302	.283647	.374093	3
3.8	.492688	.231944 1	-.225694	.782866 - 1	.318168	.298155	.235102	4
4.0	.492379	.246130 1	-.237223	.763827 - 1	.330692	.312601	-.626134	3
4.2	.491907	.260294 1	-.248464	.746581 - 1	.342887	.326996	-.291843	3
4.4	.491311	.274441 1	-.259420	.730887 - 1	.354764	.341348	-.196492	3
4.6	.490620	.288571 1	-.270093	.716544 - 1	.366332	.355664	-.151349	3
4.8	.489857	.302689 1	-.280486	.703387 - 1	.377597	.369952	-.125021	3
5.0	.489039	.316796 1	-.290603	.691276 - 1	.388567	.384216	-.107774	3
5.2	.488182	.330895 1	-.300445	.680091 - 1	.399248	.398461	-.955989	2
5.4	.487295	.344987 1	-.310014	.669731 - 1	.409643	.412691	-.865451	2
5.6	.486388	.359075 1	-.319312	.660109 - 1	.419758	.426910	-.795481	2
5.8	.485467	.373160 1	-.328342	.651150 - 1	.429595	.441121	-.739780	2
6.0	.484538	.387244 1	-.337105	.642788 - 1	.439157	.455327	-.694384	2
6.2	.483606	.401329 1	-.345602	.634966 - 1	.448448	.469531	-.656671	2

Z = - 41, A = 91

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.202141 - 2	.577214 - 4	-.362362 - 5	-.103049	1	.191094 - 4	.279347 - 3	.437590
.6	.485975 - 2	.274401 - 3	-.171569 - 4	-.162726	1	.652047 - 4	.956720 - 3	.316674
.8	.709223 - 2	.721416 - 3	-.448726 - 4	-.207272	1	.136512 - 3	.201256 - 2	.271006
1.0	.864014 - 2	.142978 - 2	-.883923 - 4	-.241314	1	.229304 - 3	.339955 - 2	.249340
1.2	.969376 - 2	.240939 - 2	-.147945 - 3	-.267624	1	.340839 - 3	.508470 - 2	.237909
1.4	.104184 - 1	.366090 - 2	-.223149 - 3	-.288210	1	.469261 - 3	.704774 - 2	.231527
1.6	.109257 - 1	.518169 - 2	-.313407 - 3	-.304543	1	.613300 - 3	.927669 - 2	.227864
1.8	.112877 - 1	.696841 - 2	-.418073 - 3	-.317688	1	.772032 - 3	.117645 - 1	.225757
2.0	.115505 - 1	.901793 - 2	-.536516 - 3	-.328415	1	.944739 - 3	.145071 - 1	.224578
2.2	.117440 - 1	.113276 - 1	-.668139 - 3	-.337285	1	.113082 - 2	.175020 - 1	.223969
2.4	.118882 - 1	.138953 - 1	-.812376 - 3	-.344710	1	.132975 - 2	.207476 - 1	.223719
2.6	.119967 - 1	.167193 - 1	-.968690 - 3	-.350996	1	.154103 - 2	.242431 - 1	.223698
2.8	.120788 - 1	.197982 - 1	-.113657 - 2	-.356371	1	.176421 - 2	.279878 - 1	.223822
3.0	.121412 - 1	.231309 - 1	-.131552 - 2	-.361010	1	.199883 - 2	.319815 - 1	.224039
3.2	.121885 - 1	.267166 - 1	-.150506 - 2	-.365047	1	.224445 - 2	.362238 - 1	.224314
3.4	.122243 - 1	.305545 - 1	-.170472 - 2	-.368588	1	.250065 - 2	.407146 - 1	.224624
3.6	.122511 - 1	.346441 - 1	-.191405 - 2	-.371714	1	.276700 - 2	.454539 - 1	.224953
3.8	.122708 - 1	.389850 - 1	-.213260 - 2	-.374493	1	.304307 - 2	.504416 - 1	.225291
4.0	.122850 - 1	.435767 - 1	-.235990 - 2	-.376976	1	.332845 - 2	.556777 - 1	.225630
4.2	.122947 - 1	.484190 - 1	-.259554 - 2	-.379207	1	.362270 - 2	.611621 - 1	.225966
4.4	.123009 - 1	.535116 - 1	-.283906 - 2	-.381222	1	.392541 - 2	.668950 - 1	.226296
4.6	.123042 - 1	.588543 - 1	-.309004 - 2	-.383049	1	.423616 - 2	.728763 - 1	.226617
4.8	.123052 - 1	.644469 - 1	-.334804 - 2	-.384712	1	.455453 - 2	.791060 - 1	.226929
5.0	.123043 - 1	.702893 - 1	-.361264 - 2	-.386233	1	.488010 - 2	.855843 - 1	.227230
5.2	.123019 - 1	.763814 - 1	-.388340 - 2	-.387629	1	.521246 - 2	.923111 - 1	.227521
5.4	.122981 - 1	.827231 - 1	-.415989 - 2	-.388913	1	.555119 - 2	.992865 - 1	.227801
5.6	.122934 - 1	.893143 - 1	-.444171 - 2	-.390098	1	.589587 - 2	.106511	.228070
5.8	.122878 - 1	.961551 - 1	-.472841 - 2	-.391195	1	.624607 - 2	.113983	.228328
6.0	.122816 - 1	.103245	-.501957 - 2	-.392214	1	.660140 - 2	.121705	.228576
6.2	.122747 - 1	.110585	-.531478 - 2	-.393162	1	.696142 - 2	.129675	.228815

Z = - 42, A = 94

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.537898 - 1	.311819 - 1	-.354968 - 2	.429423	.155321 - 1	.125903	.394581	1
.6	.164117	.102782	-.116560 - 1	.287286	.398353 - 1	.324042	.512988	1
.8	.262694	.205023	-.231367 - 1	.224422	.655719 - 1	.535821	.684300	1
1.0	.333785	.326197	-.365997 - 1	.188121	.900889 - 1	.740086	.893490	1
1.2	.382421	.458293	-.510925 - 1	.164204	.112900	.932984	.114240	2
1.4	.415487	.596420	-.660334 - 1	.147152	.134122	.111544	.143826	2
1.6	.438135	.737728	-.810838 - 1	.134337	.153995	.128938	.179273	2
1.8	.453802	.880594	-.960508 - 1	.124334	.172748	.145659	.222319	2
2.0	.464729	.102410 1	-.110826	.116301	.190569	.161856	.275556	2
2.2	.472383	.116774 1	-.125350	.109703	.207601	.177643	.342978	2
2.4	.477734	.131124 1	-.139590	.104184	.223957	.193107	.431027	2
2.6	.481442	.145446 1	-.153530	.994998 - 1	.239720	.208314	.550794	2
2.8	.483956	.159734 1	-.167162	.954727 - 1	.254954	.223315	.723091	2
3.0	.485595	.173984 1	-.180485	.919735 - 1	.269710	.238149	.992091	2
3.2	.486583	.188199 1	-.193500	.889045 - 1	.284028	.252847	.147084	3
3.4	.487083	.202380 1	-.206209	.861911 - 1	.297937	.267434	.256124	3
3.6	.487215	.216529 1	-.218615	.837748 - 1	.311464	.281929	.750717	3
3.8	.487067	.230650 1	-.230722	.816095 - 1	.324627	.296347	-.103203	4
4.0	.486705	.244746 1	-.242534	.796580 - 1	.337444	.310702	-.329007	3
4.2	.486181	.258820 1	-.254054	.778903 - 1	.349928	.325005	-.203566	3
4.4	.485533	.272874 1	-.265286	.762817 - 1	.362090	.339264	-.151174	3
4.6	.484789	.286913 1	-.276233	.748117 - 1	.373939	.353488	-.122411	3
4.8	.483974	.300937 1	-.286898	.734633 - 1	.385484	.367681	-.104233	3
5.0	.483106	.314950 1	-.297284	.722220 - 1	.396730	.381851	-.917034	2
5.2	.482198	.328954 1	-.307393	.710757 - 1	.407685	.396002	-.825435	2
5.4	.481262	.342951 1	-.317228	.700139 - 1	.418353	.410137	-.755545	2
5.6	.480306	.356944 1	-.326790	.690278 - 1	.428738	.424261	-.700460	2
5.8	.479338	.370933 1	-.336082	.681096 - 1	.438844	.438378	-.655922	2
6.0	.478364	.384921 1	-.345106	.672527 - 1	.448674	.452488	-.619164	2
6.2	.477387	.398910 1	-.353862	.664511 - 1	.458231	.466597	-.588307	2

Z = - 42, A = 94

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.189218 - 2	.566257 - 4	-.364665 - 5	-.990130		.191452 - 4	.273148 - 3	.451961
.6	.466556 - 2	.272188 - 3	-.174592 - 4	-.157621	1	.661623 - 4	.947406 - 3	.326164
.8	.688094 - 2	.718939 - 3	-.458797 - 4	-.201183	1	.139259 - 3	.200352 - 2	.278937
1.0	.842765 - 2	.142827 - 2	-.905994 - 4	-.234408	1	.234565 - 3	.339340 - 2	.256583
1.2	.948406 - 2	.241011 - 2	-.151860 - 3	-.260056	1	.349222 - 3	.508327 - 2	.244803
1.4	.102118 - 1	.366503 - 2	-.229268 - 3	-.280110	1	.481298 - 3	.705238 - 2	.238229
1.6	.107218 - 1	.519028 - 2	-.322208 - 3	-.296012	1	.629472 - 3	.928844 - 2	.234457
1.8	.110856 - 1	.698241 - 2	-.430015 - 3	-.308804	1	.792791 - 3	.117842 - 1	.232287
2.0	.113496 - 1	.903819 - 2	-.552042 - 3	-.319240	1	.970514 - 3	.145355 - 1	.231073
2.2	.115439 - 1	.113549 - 1	-.687675 - 3	-.327868	1	.116203 - 2	.175396 - 1	.230445
2.4	.116886 - 1	.139304 - 1	-.836335 - 3	-.335090	1	.136679 - 2	.207952 - 1	.230187
2.6	.117972 - 1	.167628 - 1	-.997475 - 3	-.341201	1	.158429 - 2	.243011 - 1	.230164
2.8	.118793 - 1	.198508 - 1	-.117057 - 2	-.346427	1	.181408 - 2	.280568 - 1	.230291
3.0	.119414 - 1	.231932 - 1	-.135512 - 2	-.350936	1	.205568 - 2	.320619 - 1	.230514
3.2	.119885 - 1	.267891 - 1	-.155063 - 2	-.354860	1	.230866 - 2	.363162 - 1	.230796
3.4	.120239 - 1	.306379 - 1	-.175664 - 2	-.358301	1	.257258 - 2	.408195 - 1	.231114
3.6	.120503 - 1	.347389 - 1	-.197266 - 2	-.361340	1	.284701 - 2	.455717 - 1	.231452
3.8	.120696 - 1	.390917 - 1	-.219825 - 2	-.364040	1	.313150 - 2	.505728 - 1	.231798
4.0	.120833 - 1	.436958 - 1	-.243295 - 2	-.366453	1	.342565 - 2	.558228 - 1	.232147
4.2	.120925 - 1	.485510 - 1	-.267631 - 2	-.368621	1	.372901 - 2	.613216 - 1	.232492
4.4	.120982 - 1	.536571 - 1	-.292789 - 2	-.370579	1	.404116 - 2	.670693 - 1	.232830
4.6	.121010 - 1	.590137 - 1	-.318725 - 2	-.372354	1	.436168 - 2	.730659 - 1	.233161
4.8	.121015 - 1	.646207 - 1	-.345395 - 2	-.373970	1	.469015 - 2	.793114 - 1	.233481
5.0	.121001 - 1	.704780 - 1	-.372755 - 2	-.375448	1	.502613 - 2	.858058 - 1	.233790
5.2	.120971 - 1	.765855 - 1	-.400763 - 2	-.376803	1	.536921 - 2	.925493 - 1	.234089
5.4	.120929 - 1	.829430 - 1	-.429374 - 2	-.378051	1	.571897 - 2	.995417 - 1	.234376
5.6	.120877 - 1	.895506 - 1	-.458546 - 2	-.379202	1	.607497 - 2	.106783	.234652
5.8	.120816 - 1	.964081 - 1	-.488237 - 2	-.380268	1	.643680 - 2	.114274	.234918
6.0	.120749 - 1	.103516	-.518402 - 2	-.381258	1	.680404 - 2	.122014	.235172
6.2	.120676 - 1	.110873	-.548999 - 2	-.382179	1	.717626 - 2	.130003	.235417

Z = - 43, A = 97

p	E_0	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.499899 - 1	.303214 - 1	-.353954 - 2	.443762	.153185 - 1	.121223	.395659	1
.6	.157555	.101187	-.117676 - 1	.296308	.399336 - 1	.317115	.509504	1
.8	.255684	.202850	-.234767 - 1	.231527	.661943 - 1	.528013	.678721	1
1.0	.327122	.323523	-.372305 - 1	.194216	.912687 - 1	.731857	.887254	1
1.2	.376216	.455131	-.520455 - 1	.169665	.114611	.924417	.113733	2
1.4	.409658	.592744	-.673213 - 1	.152172	.136325	.110650	.143704	2
1.6	.432574	.733500	-.827094 - 1	.139031	.156652	.127998	.179960	2
1.8	.448420	.875769	-.980118 - 1	.128776	.175829	.144666	.224494	2
2.0	.459457	.101864	1 -.113118	.120542	.194047	.160804	.280349	2
2.2	.467170	.116160	1 -.127966	.113779	.211455	.176525	.352346	2
2.4	.472546	.130439	1 -.142524	.108124	.228169	.191919	.448551	2
2.6	.476252	.144686	1 -.156777	.103324	.244275	.207052	.583538	2
2.8	.478748	.158896	1 -.170716	.991977 - 1	.259842	.221975	.786567	2
3.0	.480356	.173067	1 -.184340	.956123 - 1	.274921	.236729	.112629	3
3.2	.481304	.187200	1 -.197651	.924679 - 1	.289552	.251344	.181059	3
3.4	.481759	.201296	1 -.210652	.896879 - 1	.303769	.265846	.390272	3
3.6	.481841	.215360	1 -.223346	.872124 - 1	.317596	.280254	1 -.144593	5
3.8	.481642	.229395	1 -.235738	.849941 - 1	.331055	.294585	1 -.412660	3
4.0	.481227	.243402	1 -.247831	.829949 - 1	.344163	.308851	1 -.220180	3
4.2	.480649	.257387	1 -.259629	.811840 - 1	.356933	.323064	1 -.154842	3
4.4	.479947	.271351	1 -.271136	.795361 - 1	.369378	.337233	1 -.121946	3
4.6	.479150	.285298	1 -.282355	.780303 - 1	.381508	.351364	1 -.102136	3
4.8	.478282	.299231	1 -.293290	.766490 - 1	.393330	.365466	1 -.888973	2
5.0	.477362	.313152	1 -.303944	.753775 - 1	.404852	.379543	1 -.794253	2
5.2	.476403	.327063	1 -.314319	.742033 - 1	.416079	.393601	1 -.723121	2
5.4	.475416	.340967	1 -.324417	.731157 - 1	.427018	.407644	1 -.667737	2
5.6	.474412	.354866	1 -.334242	.721056 - 1	.437672	.421675	1 -.623391	2
5.8	.473396	.368762	1 -.343795	.711652 - 1	.448045	.435697	1 -.587077	2
6.0	.472374	.382656	1 -.353077	.702874 - 1	.458141	.449715	1 -.556793	2
6.2	.471351	.396551	1 -.362092	.694664 - 1	.467962	.463730	1 -.531149	2

Z = - 43, A = 97

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.177107 - 2	.555327 - 4	-.366645 - 5	-.951211		.191630 - 4	.266985 - 3	.466625
.6	.447952 - 2	.269920 - 3	-.177513 - 4	-.152727	1	.670756 - 4	.937898 - 3	.335774
.8	.667690 - 2	.716291 - 3	-.468692 - 4	-.195359	1	.141942 - 3	.199398 - 2	.286949
1.0	.822176 - 2	.142641 - 2	-.927825 - 4	-.227807	1	.239747 - 3	.338636 - 2	.263894
1.2	.928053 - 2	.241024 - 2	-.155745 - 3	-.252828	1	.357515 - 3	.508054 - 2	.251758
1.4	.100112 - 1	.366826 - 2	-.235352 - 3	-.272376	1	.493234 - 3	.705523 - 2	.244989
1.6	.105235 - 1	.519761 - 2	-.330970 - 3	-.287867	1	.645534 - 3	.929783 - 2	.241107
1.8	.108891 - 1	.699471 - 2	-.441914 - 3	-.300325	1	.813429 - 3	.118009 - 1	.238874
2.0	.111543 - 1	.905626 - 2	-.567520 - 3	-.310485	1	.996157 - 3	.145602 - 1	.237623
2.2	.113493 - 1	.113795 - 1	-.707158 - 3	-.318883	1	.119309 - 2	.175729 - 1	.236977
2.4	.114943 - 1	.139620 - 1	-.860237 - 3	-.325910	1	.140366 - 2	.208375 - 1	.236711
2.6	.116030 - 1	.168022 - 1	-.102620 - 2	-.331856	1	.162738 - 2	.243529 - 1	.236686
2.8	.116850 - 1	.198985 - 1	-.120450 - 2	-.336940	1	.186376 - 2	.281186 - 1	.236816
3.0	.117470 - 1	.232497 - 1	-.139465 - 2	-.341326	1	.211233 - 2	.321342 - 1	.237044
3.2	.117937 - 1	.268550 - 1	-.159613 - 2	-.345143	1	.237265 - 2	.363993 - 1	.237333
3.4	.118287 - 1	.307136 - 1	-.180846 - 2	-.348489	1	.264427 - 2	.409139 - 1	.237659
3.6	.118547 - 1	.348249 - 1	-.203118 - 2	-.351444	1	.292675 - 2	.456778 - 1	.238006
3.8	.118735 - 1	.391884 - 1	-.226380 - 2	-.354070	1	.321965 - 2	.506910 - 1	.238361
4.0	.118867 - 1	.438038 - 1	-.250589 - 2	-.356416	1	.352255 - 2	.559534 - 1	.238719
4.2	.118955 - 1	.486706 - 1	-.275697 - 2	-.358524	1	.383500 - 2	.614651 - 1	.239073
4.4	.119006 - 1	.537887 - 1	-.301660 - 2	-.360428	1	.415658 - 2	.672261 - 1	.239421
4.6	.119029 - 1	.591578 - 1	-.328434 - 2	-.362153	1	.448685 - 2	.732363 - 1	.239760
4.8	.119029 - 1	.647777 - 1	-.355973 - 2	-.363725	1	.482539 - 2	.794958 - 1	.240088
5.0	.119009 - 1	.706483 - 1	-.384235 - 2	-.365161	1	.517177 - 2	.860047 - 1	.240406
5.2	.118975 - 1	.767695 - 1	-.413174 - 2	-.366479	1	.552555 - 2	.927629 - 1	.240712
5.4	.118927 - 1	.831411 - 1	-.442748 - 2	-.367692	1	.588632 - 2	.997705 - 1	.241007
5.6	.118870 - 1	.897632 - 1	-.472911 - 2	-.368811	1	.625364 - 2	.107028	.241291
5.8	.118805 - 1	.966356 - 1	-.503622 - 2	-.369847	1	.662708 - 2	.114534	.241563
6.0	.118732 - 1	.103758	-.534836 - 2	-.370809	1	.700622 - 2	.122290	.241825
6.2	.118655 - 1	.111131	-.566510 - 2	-.371705	1	.739063 - 2	.130296	.242077

Z = - 44, A = 98

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.464952 - 1	.294968 - 1	-.353091 - 2	.458402	.151049 - 1	.116754	.397283	1
.6	.151392	.996648 - 1	-.118865 - 1	.305457	.400273 - 1	.310450	.506519	1
.8	.249104	.200800	-.238351 - 1	.238722	.668188 - 1	.520526	.673755	1
1.0	.320918	.321033	-.378952 - 1	.200389	.924630 - 1	.724018	.881803	1
1.2	.370493	.452214	-.530504 - 1	.175197	.116352	.916311	.113329	2
1.4	.404330	.589378	-.686813 - 1	.157260	.138574	.109808	.143729	2
1.6	.427530	.729644	-.844286 - 1	.143791	.159374	.127117	.180871	2
1.8	.443563	.871377	-.100089	.133283	.178992	.143739	.227044	2
2.0	.454716	.101366 1	-.115550	.124847	.197625	.159822	.285826	2
2.2	.462493	.115600 1	-.130748	.117920	.215430	.175483	.363054	2
2.4	.467895	.129813 1	-.145652	.112128	.232523	.190811	.468900	2
2.6	.471601	.143991 1	-.160244	.107211	.248996	.205874	.622762	2
2.8	.474078	.158128 1	-.174519	.102985	.264918	.220724	.866753	2
3.0	.475654	.172224 1	-.188476	.993130 - 1	.280344	.235400	.131268	3
3.2	.476561	.186279 1	-.202116	.960929 - 1	.295315	.249936	.238787	3
3.4	.476969	.200296 1	-.215442	.932460 - 1	.309866	.264357	.861298	3
3.6	.477001	.214278 1	-.228459	.907111 - 1	.324023	.278681	-.653855	3
3.8	.476748	.228229 1	-.241170	.884396 - 1	.337808	.292927	-.254034	3
4.0	.476279	.242152 1	-.253582	.863925 - 1	.351238	.307106	-.163862	3
4.2	.475646	.256050 1	-.265697	.845382 - 1	.364328	.321231	-.124031	3
4.4	.474888	.269927 1	-.277519	.828509 - 1	.377091	.335310	-.101583	3
4.6	.474036	.283785 1	-.289053	.813091 - 1	.389537	.349352	-.871776	2
4.8	.473113	.297628 1	-.300301	.798947 - 1	.401674	.363362	-.771481	2
5.0	.472139	.311459 1	-.311268	.785928 - 1	.413510	.377348	-.697633	2
5.2	.471127	.325279 1	-.321955	.773906 - 1	.425051	.391313	-.640987	2
5.4	.470089	.339091 1	-.332366	.762771 - 1	.436302	.405263	-.596155	2
5.6	.469033	.352898 1	-.342503	.752429 - 1	.447268	.419200	-.559788	2
5.8	.467968	.366700 1	-.352367	.742800 - 1	.457954	.433129	-.529693	2
6.0	.466898	.380501 1	-.361962	.733813 - 1	.468363	.447053	-.504374	2
6.2	.465828	.394302 1	-.371288	.725408 - 1	.478497	.460973	-.482775	2

Z = - 44, A = 98

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.165819 - 2	.540879 - 4	-.366120 - 5	-.913632	.190384 - 4	.259157 - 3	.481595
.6	.430277 - 2	.265853 - 3	-.179266 - 4	-.148030	1 .675034 - 4	.922137 - 3	.345506
.8	.648210 - 2	.708814 - 3	-.475597 - 4	-.189779	1 .143624 - 3	.197096 - 2	.295044
1.0	.802504 - 2	.141490 - 2	-.943863 - 4	-.221492	1 .243273 - 3	.335636 - 2	.271274
1.2	.908615 - 2	.239404 - 2	-.158674 - 3	-.245915	1 .363375 - 3	.504329 - 2	.258776
1.4	.981966 - 2	.364660 - 2	-.240013 - 3	-.264982	1 .501855 - 3	.701010 - 2	.251810
1.6	.103344 - 1	.516963 - 2	-.337757 - 3	-.280084	1 .657305 - 3	.924396 - 2	.247816
1.8	.107017 - 1	.695947 - 2	-.451209 - 3	-.292223	1 .828715 - 3	.117373 - 1	.245518
2.0	.109681 - 1	.901273 - 2	-.579694 - 3	-.302120	1 .101531 - 2	.144857 - 1	.244231
2.2	.111638 - 1	.113265 - 1	-.722574 - 3	-.310299	1 .121645 - 2	.174863 - 1	.243566
2.4	.113091 - 1	.138986 - 1	-.879252 - 3	-.317141	1 .143157 - 2	.207376 - 1	.243291
2.6	.114180 - 1	.167271 - 1	-.104916 - 2	-.322930	1 .166016 - 2	.242385 - 1	.243264
2.8	.114999 - 1	.198105 - 1	-.123177 - 2	-.327878	1 .190175 - 2	.279884 - 1	.243396
3.0	.115616 - 1	.231476 - 1	-.142655 - 2	-.332148	1 .215586 - 2	.319869 - 1	.243630
3.2	.116080 - 1	.267375 - 1	-.163302 - 2	-.335863	1 .242205 - 2	.362336 - 1	.243926
3.4	.116426 - 1	.305795 - 1	-.185067 - 2	-.339119	1 .269986 - 2	.407285 - 1	.244261
3.6	.116682 - 1	.346729 - 1	-.207905 - 2	-.341995	1 .298887 - 2	.454714 - 1	.244616
3.8	.116865 - 1	.390172 - 1	-.231768 - 2	-.344549	1 .328862 - 2	.504622 - 1	.244981
4.0	.116992 - 1	.436120 - 1	-.256610 - 2	-.346832	1 .359870 - 2	.557009 - 1	.245348
4.2	.117074 - 1	.484570 - 1	-.282385 - 2	-.348883	1 .391866 - 2	.611875 - 1	.245711
4.4	.117121 - 1	.535519 - 1	-.309050 - 2	-.350735	1 .424808 - 2	.669220 - 1	.246068
4.6	.117138 - 1	.588965 - 1	-.336558 - 2	-.352414	1 .458652 - 2	.729044 - 1	.246415
4.8	.117133 - 1	.644906 - 1	-.364865 - 2	-.353943	1 .493356 - 2	.791348 - 1	.246753
5.0	.117108 - 1	.703341 - 1	-.393929 - 2	-.355340	1 .528877 - 2	.856131 - 1	.247079
5.2	.117068 - 1	.764267 - 1	-.423703 - 2	-.356622	1 .565171 - 2	.923394 - 1	.247393
5.4	.117016 - 1	.827685 - 1	-.454146 - 2	-.357801	1 .602198 - 2	.993138 - 1	.247696
5.6	.116954 - 1	.893593 - 1	-.485212 - 2	-.358890	1 .639912 - 2	.106536	.247987
5.8	.116883 - 1	.961991 - 1	-.516859 - 2	-.359898	1 .678272 - 2	.114007	.248266
6.0	.116806 - 1	.103288	-.549044 - 2	-.360834	1 .717236 - 2	.121726	.248535
6.2	.116724 - 1	.110626	-.581722 - 2	-.361704	1 .756760 - 2	.129693	.248793

Z = - 45, A = 103

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.431874 - 1	.286779 - 1	-.351434 - 2	.473357	.148769 - 1	.112381	.399461	1
.6	.145291	.981160 - 1	-.119797 - 1	.314735	.400749 - 1	.303757	.504017	1
.8	.242412	.198677	-.241437 - 1	.246009	.673700 - 1	.512884	.669379	1
1.0	.314478	.318414	-.381808 - 1	.206640	.935590 - 1	.715920	.877112	1
1.2	.364454	.449113	-.539427 - 1	.180801	.117968	.907861	.113027	2
1.4	.398634	.585770	-.698909 - 1	.162418	.140670	.108925	.143901	2
1.6	.422081	.725490	-.859561 - 1	.148618	.161912	.126189	.182014	2
1.8	.438278	.866634	-.101930	.137856	.181936	.142758	.229997	2
2.0	.449529	.100829 1	-.117697	.129217	.200948	.158783	.292062	2
2.2	.457356	.114996 1	-.133193	.122124	.219108	.174380	.375313	2
2.4	.462775	.129138 1	-.148387	.116194	.236537	.189639	.492681	2
2.6	.466473	.143242 1	-.163262	.111161	.253329	.204629	.670389	2
2.8	.468926	.157303 1	-.177812	.106835	.269557	.219403	.970874	2
3.0	.470467	.171320 1	-.192036	.103076	.285276	.234001	.158824	3
3.2	.471331	.185295 1	-.205937	.997803 - 1	.300532	.248457	.358200	3
3.4	.471690	.199230 1	-.219518	.968665 - 1	.315358	.262795	-.332156	4
3.6	.471669	.213128 1	-.232784	.942720 - 1	.329782	.277036	-.327819	3
3.8	.471362	.226994 1	-.245740	.919472 - 1	.343827	.291196	-.181471	3
4.0	.470837	.240831 1	-.258390	.898522 - 1	.357511	.305290	-.129456	3
4.2	.470148	.254642 1	-.270739	.879546 - 1	.370851	.319328	-.102797	3
4.4	.469334	.268432 1	-.282792	.862279 - 1	.383857	.333321	-.865869	2
4.6	.468427	.282202 1	-.294551	.846501 - 1	.396542	.347275	-.756884	2
4.8	.467450	.295957 1	-.306022	.832028 - 1	.408914	.361198	-.678581	2
5.0	.466423	.309698 1	-.317207	.818706 - 1	.420981	.375095	-.619599	2
5.2	.465358	.323429 1	-.328109	.806404 - 1	.432749	.388973	-.573569	2
5.4	.464269	.337152 1	-.338731	.795010 - 1	.444224	.402834	-.536645	2
5.6	.463164	.350869 1	-.349076	.784429 - 1	.455410	.416684	-.506365	2
5.8	.462050	.364582 1	-.359145	.774577 - 1	.466314	.430525	-.481081	2
6.0	.460932	.378294 1	-.368942	.765382 - 1	.476937	.444361	-.459650	2
6.2	.459816	.392005 1	-.378469	.756782 - 1	.487283	.458194	-.441252	2

Z = - 45, A = 103

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.155131 - 2	.533627 - 4	-.369683 - 5	-.877294		.191478 - 4	.254802 - 3	.496884
.6	.413046 - 2	.265251 - 3	-.183059 - 4	-.143516	1	.687736 - 4	.918406 - 3	.355363
.8	.628949 - 2	.710550 - 3	-.487969 - 4	-.184429	1	.147118 - 3	.197356 - 2	.303224
1.0	.782886 - 2	.142177 - 2	-.970777 - 4	-.215441	1	.249879 - 3	.336995 - 2	.278725
1.2	.889120 - 2	.240895 - 2	-.163428 - 3	-.239297	1	.373834 - 3	.507156 - 2	.265859
1.4	.962682 - 2	.367236 - 2	-.247420 - 3	-.257905	1	.516809 - 3	.705609 - 2	.258692
1.6	.101434 - 1	.520890 - 2	-.348379 - 3	-.272636	1	.677330 - 3	.931029 - 2	.254584
1.8	.105121 - 1	.701477 - 2	-.465584 - 3	-.284472	1	.854345 - 3	.118264 - 1	.252220
2.0	.107793 - 1	.908648 - 2	-.598334 - 3	-.294120	1	.104705 - 2	.145997 - 1	.250896
2.2	.109756 - 1	.114211 - 1	-.745968 - 3	-.302090	1	.125477 - 2	.176274 - 1	.250211
2.4	.111211 - 1	.140162 - 1	-.907869 - 3	-.308756	1	.147695 - 2	.209078 - 1	.249928
2.6	.112300 - 1	.168698 - 1	-.108345 - 2	-.314395	1	.171304 - 2	.244399 - 1	.249899
2.8	.113117 - 1	.199805 - 1	-.127216 - 2	-.319215	1	.196255 - 2	.282230 - 1	.250034
3.0	.113731 - 1	.233471 - 1	-.147347 - 2	-.323373	1	.222501 - 2	.322565 - 1	.250273
3.2	.114191 - 1	.269685 - 1	-.168687 - 2	-.326990	1	.249995 - 2	.365404 - 1	.250576
3.4	.114533 - 1	.308441 - 1	-.191184 - 2	-.330161	1	.278691 - 2	.410743 - 1	.250919
3.6	.114784 - 1	.349730 - 1	-.214791 - 2	-.332961	1	.308544 - 2	.458581 - 1	.251283
3.8	.114962 - 1	.393549 - 1	-.239460 - 2	-.335448	1	.339510 - 2	.508918 - 1	.251658
4.0	.115084 - 1	.439894 - 1	-.265143 - 2	-.337671	1	.371543 - 2	.561754 - 1	.252034
4.2	.115161 - 1	.488759 - 1	-.291794 - 2	-.339667	1	.404600 - 2	.617087 - 1	.252406
4.4	.115202 - 1	.540144 - 1	-.319365 - 2	-.341470	1	.438637 - 2	.674919 - 1	.252772
4.6	.115214 - 1	.594045 - 1	-.347813 - 2	-.343104	1	.473608 - 2	.735250 - 1	.253129
4.8	.115203 - 1	.650460 - 1	-.377090 - 2	-.344592	1	.509471 - 2	.798078 - 1	.253475
5.0	.115173 - 1	.709388 - 1	-.407153 - 2	-.345952	1	.546182 - 2	.863406 - 1	.253809
5.2	.115128 - 1	.770829 - 1	-.437954 - 2	-.347199	1	.583695 - 2	.931233 - 1	.254131
5.4	.115071 - 1	.834779 - 1	-.469451 - 2	-.348348	1	.621969 - 2	.100156	.254442
5.6	.115003 - 1	.901240 - 1	-.501598 - 2	-.349407	1	.660958 - 2	.107439	.254741
5.8	.114928 - 1	.970210 - 1	-.534350 - 2	-.350388	1	.700620 - 2	.114971	.255028
6.0	.114846 - 1	.104169	-.567663 - 2	-.351299	1	.740910 - 2	.122754	.255303
6.2	.114759 - 1	.111568	-.601493 - 2	-.352146	1	.781785 - 2	.130787	.255568

Z = - 46, A = 104

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.401776 - 1	.279029 - 1	-.350255 - 2	.488639	.146555 - 1	.108241	.402208	1
.6	.139668	.966708 - 1	-.120912 - 1	.324145	.401346 - 1	.297413	.501985	1
.8	.236306	.196740	-.244939 - 1	.253388	.679515 - 1	.505715	.665574	1
1.0	.308709	.316080	-.391385 - 1	.212970	.947109 - 1	.708424	.873155	1
1.2	.359149	.446400	-.549425 - 1	.186478	.119670	.900139	.112825	2
1.4	.393718	.582656	-.712475 - 1	.167644	.142884	.108126	1 .144220	2
1.6	.417445	.721933	-.876732 - 1	.153512	.164600	.125356	1 .183394	2
1.8	.433827	.862587	-.104006	.142494	.185068	.141883	1 .233374	2
2.0	.445191	.100371	1 -.120127	.133651	.204497	.157858	1 .299130	2
2.2	.453079	.114480	1 -.135973	.126392	.223051	.173398	1 .389350	2
2.4	.458520	.128560	1 -.151510	.120323	.240858	.188596	1 .520626	2
2.6	.462215	.142598	1 -.166723	.115173	.258015	.203520	1 .729046	2
2.8	.464646	.156591	1 -.181606	.110746	.274596	.218224	1 .111064	3
3.0	.466151	.170537	1 -.196160	.106901	.290659	.232750	1 .203413	3
3.2	.466971	.184437	1 -.210386	.103529	.306251	.247130	1 .747627	3
3.4	.467280	.198296	1 -.224288	.100547	.321407	.261390	1 -.549170	3
3.6	.467206	.212117	1 -.237873	.978932 - 1	.336157	.275551	1 -.216029	3
3.8	.466842	.225903	1 -.251145	.955149 - 1	.350523	.289630	1 -.140021	3
4.0	.466260	.239659	1 -.264109	.933716 - 1	.364525	.303640	1 -.106344	3
4.2	.465512	.253387	1 -.276771	.914304 - 1	.378180	.317594	1 -.873366	2
4.4	.464641	.267093	1 -.289134	.896640 - 1	.391499	.331500	1 -.751283	2
4.6	.463676	.280778	1 -.301203	.880500 - 1	.404495	.345368	1 -.666241	2
4.8	.462642	.294447	1 -.312982	.865695 - 1	.417177	.359203	1 -.603600	2
5.0	.461558	.308101	1 -.324474	.852068 - 1	.429552	.373013	1 -.555536	2
5.2	.460439	.321744	1 -.335683	.839484 - 1	.441628	.386801	1 -.517489	2
5.4	.459296	.335379	1 -.346612	.827830 - 1	.453410	.400573	1 -.486621	2
5.6	.458139	.349007	1 -.357263	.817006 - 1	.464904	.414333	1 -.461073	2
5.8	.456973	.362631	1 -.367640	.806928 - 1	.476114	.428083	1 -.439577	2
6.0	.455806	.376252	1 -.377743	.797523 - 1	.487044	.441828	1 -.421239	2
6.2	.454641	.389874	1 -.387576	.788727 - 1	.497698	.455570	1 -.405408	2

Z = - 46, A = 104

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.145226 - 2	.519663 - 4	-.368683 - 5	-.842109		.189990 - 4	.247264 - 3	.512507
.6	.396822 - 2	.261242 - 3	-.184650 - 4	-.139174	1	.691342 - 4	.902866 - 3	.365349
.8	.610781 - 2	.703123 - 3	-.494589 - 4	-.179293	1	.148702 - 3	.195066 - 2	.311490
1.0	.764416 - 2	.141029 - 2	-.986428 - 4	-.209639	1	.253285 - 3	.333996 - 2	.286247
1.2	.870814 - 2	.239275 - 2	-.166310 - 3	-.232954	1	.379559 - 3	.503424 - 2	.273007
1.4	.944618 - 2	.365067 - 2	-.252026 - 3	-.251126	1	.525283 - 3	.701080 - 2	.265636
1.6	.996484 - 2	.518084 - 2	-.355105 - 3	-.265503	1	.688942 - 3	.925614 - 2	.261412
1.8	.103351 - 1	.697938 - 2	-.474810 - 3	-.277050	1	.869458 - 3	.117623 - 1	.258987
2.0	.106033 - 1	.904271 - 2	-.610430 - 3	-.286459	1	.106601 - 2	.145246 - 1	.257620
2.2	.108001 - 1	.113678 - 1	-.761297 - 3	-.294230	1	.127793 - 2	.175401 - 1	.256915
2.4	.109459 - 1	.139522 - 1	-.926784 - 3	-.300729	1	.150462 - 2	.208070 - 1	.256622
2.6	.110548 - 1	.167941 - 1	-.110630 - 2	-.306225	1	.174557 - 2	.243244 - 1	.256592
2.8	.111363 - 1	.198917 - 1	-.129930 - 2	-.310922	1	.200026 - 2	.280914 - 1	.256729
3.0	.111975 - 1	.232440 - 1	-.150523 - 2	-.314974	1	.226823 - 2	.321076 - 1	.256974
3.2	.112431 - 1	.268498 - 1	-.172358 - 2	-.318499	1	.254900 - 2	.363727 - 1	.257285
3.4	.112769 - 1	.307084 - 1	-.195386 - 2	-.321588	1	.284211 - 2	.408865 - 1	.257636
3.6	.113014 - 1	.348192 - 1	-.219556 - 2	-.324316	1	.314713 - 2	.456489 - 1	.258009
3.8	.113188 - 1	.391815 - 1	-.244822 - 2	-.326739	1	.346359 - 2	.506599 - 1	.258392
4.0	.113304 - 1	.437951 - 1	-.271135 - 2	-.328904	1	.379106 - 2	.559192 - 1	.258778
4.2	.113376 - 1	.486594 - 1	-.298449 - 2	-.330848	1	.412909 - 2	.614271 - 1	.259160
4.4	.113412 - 1	.537743 - 1	-.326718 - 2	-.332604	1	.447723 - 2	.671833 - 1	.259535
4.6	.113418 - 1	.591394 - 1	-.355896 - 2	-.334195	1	.483506 - 2	.731880 - 1	.259900
4.8	.113402 - 1	.647546 - 1	-.385938 - 2	-.335645	1	.520213 - 2	.794411 - 1	.260255
5.0	.113367 - 1	.706198 - 1	-.416797 - 2	-.336969	1	.557800 - 2	.859428 - 1	.260598
5.2	.113316 - 1	.767347 - 1	-.448429 - 2	-.338184	1	.596223 - 2	.926929 - 1	.260929
5.4	.113254 - 1	.830993 - 1	-.480790 - 2	-.339302	1	.635439 - 2	.996917 - 1	.261247
5.6	.113181 - 1	.897135 - 1	-.513834 - 2	-.340334	1	.675404 - 2	.106939	.261553
5.8	.113101 - 1	.965773 - 1	-.547517 - 2	-.341289	1	.716074 - 2	.114435	.261847
6.0	.113014 - 1	.103691	-.581795 - 2	-.342176	1	.757406 - 2	.122180	.262130
6.2	.112922 - 1	.111053	-.616624 - 2	-.343001	1	.799355 - 2	.130173	.262401

Z = - 47, A = 107

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.373551 - 1	.271421 - 1	-.348630 - 2	.504263	.144260 - 1	.104224	.405541	1
.6	.134193	.952298 - 1	-.121886 - 1	.333690	.401639 - 1	.291130	.500413	1
.8	.230250	.194792	-.248180 - 1	.260861	.684868 - 1	.498542	.662321	1
1.0	.302919	.313717	-.397562 - 1	.219379	.958042 - 1	.700877	.869915	1
1.2	.353781	.443641	-.558865 - 1	.192228	.121301	.892331	.112722	2
1.4	.388711	.579477	-.725303 - 1	.172939	.145015	.107316	.144687	2
1.6	.412699	.718294	-.892967 - 1	.158473	.167191	.124509	.185024	2
1.8	.429253	.858443	-.105966	.147198	.188085	.140992	.237212	2
2.0	.440721	.999011	-.122418	.138150	.207912	.156916	.307139	2
2.2	.448661	.113951	1 -.138588	.130723	.226842	.172400	.405486	2
2.4	.454120	.127968	1 -.154441	.124516	.245006	.187535	.553789	2
2.6	.457807	.141940	1 -.169964	.119248	.262503	.202393	.802819	2
2.8	.460212	.155863	1 -.185151	.114720	.279412	.217027	.130758	3
3.0	.461679	.169736	1 -.200001	.110787	.295793	.231480	.287666	3
3.2	.462452	.183563	1 -.214519	.107339	.311694	.245785	-.567779	4
3.4	.462710	.197345	1 -.228708	.104290	.327151	.259967	-.294100	3
3.6	.462580	.211088	1 -.242575	.101576	.342194	.274049	-.159569	3
3.8	.462159	.224794	1 -.256126	.991438 - 1	.356849	.288047	-.113220	3
4.0	.461518	.238469	1 -.269364	.969522 - 1	.371136	.301976	-.897532	2
4.2	.460712	.252115	1 -.282297	.949673 - 1	.385070	.315847	-.755781	2
4.4	.459781	.265737	1 -.294928	.931612 - 1	.398665	.329669	-.660879	2
4.6	.458758	.279339	1 -.307262	.915109 - 1	.411934	.343452	-.592892	2
4.8	.457667	.292923	1 -.319304	.899972 - 1	.424885	.357203	-.541790	2
5.0	.456527	.306492	1 -.331057	.886040 - 1	.437528	.370926	-.501976	2
5.2	.455353	.320049	1 -.342525	.873174 - 1	.449869	.384629	-.470079	2
5.4	.454156	.333597	1 -.353711	.861259 - 1	.461915	.398315	-.443950	2
5.6	.452946	.347139	1 -.364618	.850193 - 1	.473670	.411988	-.422151	2
5.8	.451730	.360675	1 -.375248	.839891 - 1	.485140	.425652	-.403688	2
6.0	.450512	.374210	1 -.385604	.830275 - 1	.496329	.439310	-.387848	2
6.2	.449299	.387743	1 -.395688	.821282 - 1	.507240	.452966	-.374108	2

Z = - 47, A = 107

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.135897 - 2	.509167 - 4	-.369544 - 5	-.807996		.189567 - 4	.241408 - 3	.528478
.6	.381133 - 2	.258885 - 3	-.187201 - 4	-.134991	1	.698884 - 4	.893052 - 3	.375469
.8	.593013 - 2	.700091 - 3	-.503837 - 4	-.174357	1	.151150 - 3	.193995 - 2	.319845
1.0	.746242 - 2	.140759 - 2	-.100737 - 3	-.204069	1	.258178 - 3	.333076 - 2	.293842
1.2	.852733 - 2	.239143 - 2	-.170086 - 3	-.226868	1	.387522 - 3	.502820 - 2	.280221
1.4	.926730 - 2	.365167 - 2	-.257983 - 3	-.244624	1	.536853 - 3	.700905 - 2	.272642
1.6	.978771 - 2	.518499 - 2	-.363723 - 3	-.258664	1	.704602 - 3	.925949 - 2	.268301
1.8	.101592 - 1	.698737 - 2	-.486548 - 3	-.269936	1	.889656 - 3	.117713 - 1	.265803
2.0	.104283 - 1	.905514 - 2	-.625729 - 3	-.279117	1	.109117 - 2	.145397 - 1	.264403
2.2	.106255 - 1	.113852 - 1	-.780581 - 3	-.286698	1	.130846 - 2	.175618 - 1	.263678
2.4	.107715 - 1	.139751 - 1	-.950464 - 3	-.293037	1	.154092 - 2	.208356 - 1	.263376
2.6	.108803 - 1	.168227 - 1	-.113478 - 2	-.298397	1	.178801 - 2	.243600 - 1	.263344
2.8	.109616 - 1	.199265 - 1	-.133295 - 2	-.302977	1	.204924 - 2	.281344 - 1	.263484
3.0	.110225 - 1	.232853 - 1	-.154445 - 2	-.306928	1	.232410 - 2	.321582 - 1	.263733
3.2	.110677 - 1	.268980 - 1	-.176873 - 2	-.310364	1	.261213 - 2	.364312 - 1	.264051
3.4	.111010 - 1	.307637 - 1	-.200530 - 2	-.313376	1	.291287 - 2	.409531 - 1	.264411
3.6	.111251 - 1	.348819 - 1	-.225366 - 2	-.316034	1	.322586 - 2	.457237 - 1	.264793
3.8	.111419 - 1	.392519 - 1	-.251332 - 2	-.318396	1	.355064 - 2	.507431 - 1	.265186
4.0	.111530 - 1	.438733 - 1	-.278379 - 2	-.320506	1	.388677 - 2	.560111 - 1	.265581
4.2	.111596 - 1	.487457 - 1	-.306462 - 2	-.322401	1	.423380 - 2	.615277 - 1	.265973
4.4	.111626 - 1	.538689 - 1	-.335532 - 2	-.324112	1	.459128 - 2	.672930 - 1	.266357
4.6	.111627 - 1	.592426 - 1	-.365543 - 2	-.325663	1	.495876 - 2	.733068 - 1	.266731
4.8	.111605 - 1	.648665 - 1	-.396450 - 2	-.327075	1	.533581 - 2	.795693 - 1	.267095
5.0	.111565 - 1	.707406 - 1	-.428206 - 2	-.328366	1	.572197 - 2	.860804 - 1	.267446
5.2	.111509 - 1	.768647 - 1	-.460766 - 2	-.329549	1	.611681 - 2	.928402 - 1	.267785
5.4	.111441 - 1	.832386 - 1	-.494084 - 2	-.330639	1	.651988 - 2	.998488 - 1	.268112
5.6	.111363 - 1	.898623 - 1	-.528116 - 2	-.331644	1	.693075 - 2	.107106	.268425
5.8	.111278 - 1	.967357 - 1	-.562817 - 2	-.332575	1	.734897 - 2	.114612	.268727
6.0	.111186 - 1	.103859	-.598141 - 2	-.333439	1	.777409 - 2	.122367	.269017
6.2	.111089 - 1	.111231	-.634044 - 2	-.334243	1	.820569 - 2	.130371	.269295

Z = - 48, A = 109

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.347491 - 1	.264090 - 1	-.347028 - 2	.520243	.141969 - 1	.100375	.409483	1
.6	.129012	.938417 - 1	-.122882 - 1	.343373	.401860 - 1	.285047	.499292	1
.8	.224498	.192932	-.251503 - 1	.268428	.690163 - 1	.491602	.659606	1
1.0	.297446	.311484	-.403906 - 1	.225868	.968989 - 1	.693606	.867377	1
1.2	.348742	.441054	-.568572 - 1	.198051	.122943	.884845	.112718	2
1.4	.384044	.576516	-.738508 - 1	.178304	.147166	.106543	.145306	2
1.6	.408301	.714917	-.909693 - 1	.163501	.169812	.123705	.186913	2
1.8	.425033	.854602	-.107988	.151967	.191143	.140148	.241549	2
2.0	.436607	.994660	-.124783	.142713	.211378	.156024	.316205	2
2.2	.444602	.113460 1	-.141289	.135118	.230694	.171455	.424107	2
2.4	.450079	.127418 1	-.157472	.128771	.249224	.186531	.593568	2
2.6	.453757	.141327 1	-.173318	.123384	.267073	.201326	.897960	2
2.8	.456136	.155184 1	-.188821	.118756	.284322	.215893	.160443	3
3.0	.457564	.168988 1	-.203983	.114735	.301032	.230276	.505584	3
3.2	.458290	.182744 1	-.218807	.111210	.317252	.244508	-.572067	3
3.4	.458494	.196453 1	-.233298	.108093	.333023	.258615	-.198512	3
3.6	.458307	.210120 1	-.247463	.105319	.348374	.272620	-.125587	3
3.8	.457826	.223749 1	-.261308	.102833	.363331	.286540	-.945126	2
4.0	.457125	.237345 1	-.274838	.100593	.377915	.300389	-.772954	2
4.2	.456258	.250912 1	-.288060	.985642 - 1	.392143	.314178	-.663562	2
4.4	.455268	.264453 1	-.300977	.967182 - 1	.406030	.327919	-.587906	2
4.6	.454185	.277973 1	-.313596	.950315 - 1	.419587	.341619	-.532464	2
4.8	.453035	.291474 1	-.325920	.934845 - 1	.432825	.355285	-.490086	2
5.0	.451837	.304959 1	-.337954	.920605 - 1	.445752	.368925	-.456641	2
5.2	.450607	.318432 1	-.349701	.907457 - 1	.458376	.382542	-.429571	2
5.4	.449355	.331896 1	-.361165	.895279 - 1	.470704	.396143	-.407211	2
5.6	.448091	.345352 1	-.372349	.883970 - 1	.482740	.409730	-.388429	2
5.8	.446822	.358803 1	-.383256	.873441 - 1	.494490	.423309	-.372427	2
6.0	.445553	.372251 1	-.393888	.863615 - 1	.505958	.436881	-.358631	2
6.2	.444290	.385699 1	-.404247	.854425 - 1	.517148	.450450	-.346611	2

Z = - 48, A = 109

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.127184 - 2	.497290 - 4	-.369142 - 5	-.774879		.188447 - 4	.234924 - 3	.544814
.6	.366166 - 2	.255743 - 3	-.189151 - 4	-.130957	1	.703960 - 4	.880537 - 3	.385726
.8	.575952 - 2	.694893 - 3	-.511551 - 4	-.169608	1	.153089 - 3	.192321 - 2	.328290
1.0	.728759 - 2	.140052 - 2	-.102535 - 3	-.198717	1	.262233 - 3	.331116 - 2	.301513
1.2	.835332 - 2	.238265 - 2	-.173376 - 3	-.221024	1	.394257 - 3	.500642 - 2	.287502
1.4	.909516 - 2	.364128 - 2	-.263219 - 3	-.238383	1	.546753 - 3	.698533 - 2	.279713
1.6	.961727 - 2	.517292 - 2	-.371341 - 3	-.252101	1	.718103 - 3	.923377 - 2	.275251
1.8	.999003 - 2	.697348 - 2	-.496968 - 3	-.263109	1	.907162 - 3	.117434 - 1	.272685
2.0	.102599 - 1	.903919 - 2	-.639354 - 3	-.272073	1	.111307 - 2	.145092 - 1	.271247
2.2	.104575 - 1	.113669 - 1	-.797802 - 3	-.279473	1	.133511 - 2	.175282 - 1	.270501
2.4	.106037 - 1	.139540 - 1	-.971662 - 3	-.285659	1	.157270 - 2	.207985 - 1	.270189
2.6	.107124 - 1	.167985 - 1	-.116032 - 2	-.290889	1	.182527 - 2	.243190 - 1	.270155
2.8	.107935 - 1	.198987 - 1	-.136321 - 2	-.295358	1	.209232 - 2	.280888 - 1	.270297
3.0	.108540 - 1	.232534 - 1	-.157978 - 2	-.299211	1	.237335 - 2	.321075 - 1	.270552
3.2	.108988 - 1	.268614 - 1	-.180949 - 2	-.302563	1	.266790 - 2	.363747 - 1	.270878
3.4	.109317 - 1	.307220 - 1	-.205183 - 2	-.305500	1	.297549 - 2	.408902 - 1	.271246
3.6	.109552 - 1	.348345 - 1	-.230630 - 2	-.308093	1	.329566 - 2	.456540 - 1	.271637
3.8	.109715 - 1	.391982 - 1	-.257241 - 2	-.310396	1	.362796 - 2	.506658 - 1	.272040
4.0	.109820 - 1	.438128 - 1	-.284968 - 2	-.312454	1	.397194 - 2	.559257 - 1	.272444
4.2	.109881 - 1	.486779 - 1	-.313762 - 2	-.314302	1	.432714 - 2	.614335 - 1	.272845
4.4	.109905 - 1	.537931 - 1	-.343577 - 2	-.315970	1	.469312 - 2	.671893 - 1	.273239
4.6	.109901 - 1	.591581 - 1	-.374366 - 2	-.317482	1	.506943 - 2	.731931 - 1	.273623
4.8	.109874 - 1	.647729 - 1	-.406083 - 2	-.318859	1	.545563 - 2	.794449 - 1	.273995
5.0	.109827 - 1	.706371 - 1	-.438681 - 2	-.320117	1	.585126 - 2	.859447 - 1	.274355
5.2	.109766 - 1	.767507 - 1	-.472116 - 2	-.321271	1	.625588 - 2	.926925 - 1	.274702
5.4	.109693 - 1	.831135 - 1	-.506340 - 2	-.322333	1	.666906 - 2	.996884 - 1	.275037
5.6	.109610 - 1	.897255 - 1	-.541310 - 2	-.323313	1	.709034 - 2	.106932	.275358
5.8	.109520 - 1	.965865 - 1	-.576979 - 2	-.324221	1	.751929 - 2	.114425	.275667
6.0	.109423 - 1	.103697	-.613303 - 2	-.325063	1	.795545 - 2	.122165	.275964
6.2	.109321 - 1	.111056	-.650236 - 2	-.325846	1	.839839 - 2	.130154	.276249

Z = -49, A = 113

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.323048 - 1	.256889 - 1	-.345016 - 2	.536595	.139610 - 1	.966390 - 1	.414061	1
.6	.123963	.924553 - 1	-.123743 - 1	.353198	.401788 - 1	.279020	.498616	1
.8	.218784	.191056	-.254571 - 1	.276093	.694999 - 1	.484649	.657417	1
1.0	.291938	.309214	-.409859 - 1	.232438	.979345 - 1	.686270	.865529	1
1.2	.343623	.438412	-.577734 - 1	.203947	.124513	.877256	.112811	2
1.4	.379268	.573478	-.750994 - 1	.183738	.149232	.105757	.146080	2
1.6	.403775	.711443	-.925507 - 1	.168597	.172335	.122884	.189077	2
1.8	.420671	.850646	-.109897	.156801	.194086	.139285	.246433	2
2.0	.432342	.990175	-.127012	.147340	.214712	.155113	.326482	2
2.2	.440384	.112955	1 -.143830	.139577	.234394	.170489	.445726	2
2.4	.445873	.126851	1 -.160317	.133089	.253270	.185506	.641970	2
2.6	.449539	.140696	1 -.176458	.127584	.271449	.200237	.102490	3
2.8	.451887	.154486	1 -.192249	.122853	.289013	.214736	.210148	3
3.0	.453273	.168221	1 -.207692	.118745	.306026	.229049	.237755	4
3.2	.453949	.181904	1 -.222790	.115142	.322541	.243208	-.295967	3
3.4	.454098	.195538	1 -.237551	.111958	.338596	.257241	-.148512	3
3.6	.453852	.209130	1 -.251979	.109123	.354225	.271170	-.102913	3
3.8	.453312	.222682	1 -.266082	.106583	.369453	.285012	-.807271	2
4.0	.452549	.236200	1 -.279866	.104295	.384303	.298782	-.676056	2
4.2	.451621	.249687	1 -.293337	.102222	.398792	.312492	-.589359	2
4.4	.450570	.263148	1 -.306501	.100336	.412935	.326152	-.527808	2
4.6	.449427	.276587	1 -.319363	.986127 - 1	.426745	.339771	-.481848	2
4.8	.448218	.290006	1 -.331927	.970323 - 1	.440232	.353356	-.446219	2
5.0	.446962	.303409	1 -.344197	.955776 - 1	.453405	.366914	-.417788	2
5.2	.445675	.316800	1 -.356179	.942344 - 1	.466272	.380449	-.394573	2
5.4	.444368	.330180	1 -.367874	.929905 - 1	.478840	.393968	-.375257	2
5.6	.443050	.343553	1 -.379287	.918353 - 1	.491115	.407473	-.358933	2
5.8	.441729	.356920	1 -.390421	.907598 - 1	.503101	.420969	-.344955	2
6.0	.440410	.370285	1 -.401278	.897562 - 1	.514803	.434459	-.332850	2
6.2	.439097	.383649	1 -.411861	.888174 - 1	.526225	.447946	-.322263	2

Z = -49, A = 113

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.118979 - 2	.488459 - 4	-.370484 - 5	-.742688		.188307 - 4	.229906 - 3	.561531
.6	.351686 - 2	.254094 - 3	-.192031 - 4	-.127064	1	.712795 - 4	.873169 - 3	.396124
.8	.559253 - 2	.693717 - 3	-.521846 - 4	-.165035	1	.155868 - 3	.191760 - 2	.336829
1.0	.711536 - 2	.140154 - 2	-.104857 - 3	-.193568	1	.267746 - 3	.331065 - 2	.309259
1.2	.818122 - 2	.238765 - 2	-.177555 - 3	-.215406	1	.403196 - 3	.501352 - 2	.294853
1.4	.892446 - 2	.365192 - 2	-.269802 - 3	-.232385	1	.559713 - 3	.700193 - 2	.286848
1.6	.944795 - 2	.519076 - 2	-.380852 - 3	-.245745	1	.735614 - 3	.920108 - 2	.282265
1.8	.982173 - 2	.699992 - 2	-.509905 - 3	-.256552	1	.929714 - 3	.117833 - 1	.279629
2.0	.100922 - 1	.907552 - 2	-.656193 - 3	-.265309	1	.114112 - 2	.145625 - 1	.278151
2.2	.102902 - 1	.114143 - 1	-.818999 - 3	-.272536	1	.136911 - 2	.175960 - 1	.277384
2.4	.104363 - 1	.140137 - 1	-.997656 - 3	-.278576	1	.161306 - 2	.208817 - 1	.277063
2.6	.105449 - 1	.168714 - 1	-.119154 - 2	-.283682	1	.187241 - 2	.244185 - 1	.277026
2.8	.106258 - 1	.199860 - 1	-.140006 - 2	-.288044	1	.214664 - 2	.282056 - 1	.277171
3.0	.106859 - 1	.233560 - 1	-.162265 - 2	-.291805	1	.243525 - 2	.322425 - 1	.277432
3.2	.107302 - 1	.269804 - 1	-.185878 - 2	-.295075	1	.273775 - 2	.365287 - 1	.277765
3.4	.107626 - 1	.308582 - 1	-.210791 - 2	-.297942	1	.305367 - 2	.410641 - 1	.278141
3.6	.107856 - 1	.349889 - 1	-.236954 - 2	-.300472	1	.338254 - 2	.458486 - 1	.278542
3.8	.108013 - 1	.393717 - 1	-.264316 - 2	-.302719	1	.372389 - 2	.508820 - 1	.278954
4.0	.108113 - 1	.440062 - 1	-.292829 - 2	-.304726	1	.407727 - 2	.561642 - 1	.279368
4.2	.108168 - 1	.488921 - 1	-.322444 - 2	-.306529	1	.444222 - 2	.616953 - 1	.279779
4.4	.108186 - 1	.540290 - 1	-.353112 - 2	-.308156	1	.481828 - 2	.674751 - 1	.280182
4.6	.108177 - 1	.594166 - 1	-.384787 - 2	-.309632	1	.520500 - 2	.735038 - 1	.280575
4.8	.108143 - 1	.650548 - 1	-.417421 - 2	-.310975	1	.560192 - 2	.797812 - 1	.280956
5.0	.108092 - 1	.709433 - 1	-.450967 - 2	-.312202	1	.600859 - 2	.863074 - 1	.281325
5.2	.108025 - 1	.770820 - 1	-.485379 - 2	-.313328	1	.642457 - 2	.930826 - 1	.281681
5.4	.107947 - 1	.834707 - 1	-.520611 - 2	-.314363	1	.684939 - 2	.100107	.282023
5.6	.107859 - 1	.901094 - 1	-.556615 - 2	-.315320	1	.728261 - 2	.107379	.282353
5.8	.107763 - 1	.969981 - 1	-.593348 - 2	-.316204	1	.772378 - 2	.114901	.282669
6.0	.107662 - 1	.104137	-.630762 - 2	-.317026	1	.817245 - 2	.122672	.282973
6.2	.107555 - 1	.111525	-.668812 - 2	-.317790	1	.862816 - 2	.130692	.283265

Z = -50, A = 116

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.300491 - 1	.249951 - 1	-.343045 - 2	.553336	.137264 - 1	.930617 - 1	.419310	1
.6	.119185	.911200 - 1	-.124630 - 1	.363168	.401659 - 1	.273186	.498381	1
.8	.213358	.189265	-.257727 - 1	.283855	.699795 - 1	.477922	.655745	1
1.0	.286734	.307071	-.415989 - 1	.239090	.989737 - 1	.679204	.864362	1
1.2	.338823	.435940	-.587175 - 1	.209918	.126097	.869985	.113003	2
1.4	.374823	.570655	-.763872 - 1	.189243	.151322	.105007	.147013	2
1.6	.399589	.708228	-.941833 - 1	.173759	.174891	.122104	.191532	2
1.8	.416655	.846990	-.111870	.161701	.197073	.138468	.251918	2
2.0	.428426	.986031	-.129318	.152032	.218100	.154251	.338148	2
2.2	.436518	.112487	1 -.146460	.144099	.238159	.169575	.470996	2
2.4	.442019	.126326	1 -.163264	.137469	.257392	.184536	.701871	2
2.6	.445672	.140111	1 -.179714	.131845	.275911	.199206	.120205	3
2.8	.447990	.153836	1 -.195807	.127013	.293801	.213642	.309959	3
3.0	.449333	.167505	1 -.211545	.122815	.311130	.227887	-.837165	3
3.2	.449957	.181118	1 -.226933	.119136	.327950	.241976	-.197356	3
3.4	.450049	.194682	1 -.241977	.115883	.344303	.255937	-.117831	3
3.6	.449744	.208201	1 -.256685	.112987	.360223	.269792	-.867426	2
3.8	.449141	.221679	1 -.271063	.110393	.375737	.283558	-.701695	2
4.0	.448316	.235120	1 -.285118	.108056	.390866	.297251	-.598702	2
4.2	.447324	.248531	1 -.298856	.105939	.405631	.310883	-.528493	2
4.4	.446210	.261913	1 -.312285	.104013	.420046	.324465	-.477563	2
4.6	.445006	.275273	1 -.325408	.102253	.434124	.338004	-.438928	2
4.8	.443736	.288612	1 -.338231	.100639	.447877	.351509	-.408615	2
5.0	.442421	.301935	1 -.350758	.991537 - 1	.461313	.364986	-.384194	2
5.2	.441076	.315245	1 -.362994	.977820 - 1	.474441	.378441	-.364100	2
5.4	.439712	.328543	1 -.374943	.965118 - 1	.487268	.391878	-.347273	2
5.6	.438339	.341834	1 -.386607	.953322 - 1	.499800	.405302	-.332977	2
5.8	.436964	.355120	1 -.397991	.942340 - 1	.512042	.418716	-.320679	2
6.0	.435593	.368403	1 -.409097	.932091 - 1	.523999	.432125	-.309987	2
6.2	.434229	.381684	1 -.419927	.922506 - 1	.535675	.445531	-.300604	2

Z = -50, A = 116

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.111318 - 2	.478266 - 4	-.370585 - 5	-.711360		.187486 - 4	.224271 - 3	.578648
.6	.337873 - 2	.251669 - 3	-.194313 - 4	-.123302	1	.719184 - 4	.863133 - 3	.406668
.8	.543218 - 2	.690397 - 3	-.530615 - 4	-.160627	1	.158141 - 3	.190602 - 2	.345462
1.0	.694966 - 2	.139821 - 2	-.106885 - 3	-.188610	1	.272422 - 3	.329984 - 2	.317082
1.2	.801558 - 2	.238524 - 2	-.181249 - 3	-.210000	1	.410910 - 3	.500502 - 2	.302273
1.4	.876019 - 2	.365126 - 2	-.275666 - 3	-.226617	1	.571007 - 3	.699674 - 2	.294050
1.6	.928503 - 2	.519252 - 2	-.389364 - 3	-.239733	1	.750971 - 3	.926018 - 2	.289343
1.8	.965981 - 2	.700466 - 2	-.521525 - 3	-.250250	1	.949579 - 3	.117865 - 1	.286636
2.0	.993089 - 2	.908371 - 2	-.671360 - 3	-.258808	1	.116591 - 2	.145705 - 1	.285118
2.2	.101291 - 1	.114263 - 1	-.838136 - 3	-.265869	1	.139924 - 2	.176090 - 1	.284329
2.4	.102754 - 1	.140298 - 1	-.102117 - 2	-.271770	1	.164891 - 2	.208999 - 1	.283998
2.6	.103838 - 1	.168920 - 1	-.121983 - 2	-.276757	1	.191437 - 2	.244420 - 1	.283959
2.8	.104643 - 1	.200112 - 1	-.143351 - 2	-.281016	1	.219508 - 2	.282345 - 1	.284107
3.0	.105240 - 1	.233860 - 1	-.166164 - 2	-.284689	1	.249053 - 2	.322769 - 1	.284373
3.2	.105679 - 1	.270153 - 1	-.190367 - 2	-.287882	1	.280023 - 2	.365687 - 1	.284713
3.4	.105998 - 1	.308982 - 1	-.215907 - 2	-.290681	1	.312371 - 2	.411097 - 1	.285098
3.6	.106222 - 1	.350341 - 1	-.242732 - 2	-.293151	1	.346049 - 2	.458999 - 1	.285508
3.8	.106374 - 1	.394222 - 1	-.270791 - 2	-.295344	1	.381009 - 2	.509389 - 1	.285930
4.0	.106468 - 1	.440621 - 1	-.300034 - 2	-.297303	1	.417206 - 2	.562269 - 1	.286354
4.2	.106517 - 1	.489534 - 1	-.330413 - 2	-.299063	1	.454593 - 2	.617637 - 1	.286774
4.4	.106530 - 1	.540958 - 1	-.361879 - 2	-.300651	1	.493124 - 2	.675493 - 1	.287187
4.6	.106515 - 1	.594890 - 1	-.394383 - 2	-.302091	1	.532753 - 2	.735837 - 1	.287589
4.8	.106476 - 1	.651328 - 1	-.427879 - 2	-.303402	1	.573435 - 2	.798670 - 1	.287980
5.0	.106419 - 1	.710269 - 1	-.462318 - 2	-.304600	1	.615124 - 2	.863990 - 1	.288357
5.2	.106347 - 1	.771712 - 1	-.497654 - 2	-.305698	1	.657773 - 2	.931799 - 1	.288722
5.4	.106263 - 1	.835657 - 1	-.533840 - 2	-.306709	1	.701339 - 2	.100210	.289072
5.6	.106170 - 1	.902101 - 1	-.570829 - 2	-.307642	1	.745774 - 2	.107488	.289410
5.8	.106069 - 1	.971045 - 1	-.608576 - 2	-.308506	1	.791035 - 2	.115016	.289734
6.0	.105962 - 1	.104249	-.647033 - 2	-.309307	1	.837074 - 2	.122793	.290045
6.2	.105851 - 1	.111643	-.686154 - 2	-.310053	1	.883848 - 2	.130819	.290344

Z = -51, A = 121

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.279335 - 1	.243133 - 1	-.340702 - 2	.570483	.134862 - 1	.895896 - 1	.425270	1
.6	.114528	.897851 - 1	-.125387 - 1	.373286	.401251 - 1	.267403	.498586	1
.8	.207963	.187456	-.260640 - 1	.291717	.704140 - 1	.471179	.654582	1
1.0	.281489	.304889	-.421743 - 1	.245823	.999544 - 1	.672067	.863872	1
1.2	.333935	.433407	-.596093 - 1	.215963	.127609	.862601	.113295	2
1.4	.370261	.567749	-.776059 - 1	.194817	.153328	.104242	.148110	2
1.6	.395266	.704908	-.957281 - 1	.178989	.177349	.121307	.194299	2
1.8	.412487	.843208	-.113734	.166667	.199947	.137631	.258071	2
2.0	.424349	.981743	-.131493	.156788	.221358	.153368	.351434	2
2.2	.432483	.112003	1 -.148937	.148684	.241775	.168640	.500808	2
2.4	.437991	.125784	1 -.166033	.141913	.261345	.183543	.777679	2
2.6	.441626	.139505	1 -.182766	.136169	.280183	.198152	.146578	3
2.8	.443910	.153166	1 -.199133	.131234	.298378	.212522	.611475	3
3.0	.445207	.166767	1 -.215138	.126948	.315999	.226700	-.348692	3
3.2	.445778	.180311	1 -.230785	.123190	.333099	.240719	-.146772	3
3.4	.445811	.193803	1 -.246082	.119869	.349724	.254608	-.971069	2
3.6	.445444	.207248	1 -.261036	.116913	.365907	.268389	-.746397	2
3.8	.444778	.220651	1 -.275655	.114264	.381677	.282081	-.618320	2
4.0	.443890	.234017	1 -.289947	.111878	.397057	.295698	-.535568	2
4.2	.442835	.247350	1 -.303917	.109717	.412066	.309254	-.477698	2
4.4	.441658	.260655	1 -.317572	.107750	.426720	.322758	-.434954	2
4.6	.440391	.273936	1 -.330918	.105954	.441034	.336220	-.402090	2
4.8	.439061	.287197	1 -.343960	.104306	.455017	.349647	-.376034	2
5.0	.437686	.300440	1 -.356703	.102790	.468681	.363046	-.354868	2
5.2	.436283	.313670	1 -.369152	.101390	.482033	.376422	-.337333	2
5.4	.434863	.326889	1 -.381310	.100093	.495082	.389781	-.322566	2
5.6	.433435	.340101	1 -.393182	.988892 - 1	.507832	.403127	-.309960	2
5.8	.432006	.353306	1 -.404769	.977683 - 1	.520290	.416464	-.299072	2
6.0	.430583	.366509	1 -.416077	.967223 - 1	.532460	.429795	-.289571	2
6.2	.429169	.379711	1 -.427106	.957440 - 1	.544347	.443123	-.281208	2

Z = -51, A = 121

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.104105 - 2	.470715 - 4	-.372283 - 5	-.680835		.187550 - 4	.219898 - 3	.596184
.6	.324505 - 2	.250574 - 3	-.197476 - 4	-.119663	1	.729094 - 4	.857658 - 3	.417361
.8	.527514 - 2	.690706 - 3	-.541866 - 4	-.156374	1	.161213 - 3	.190444 - 2	.354193
1.0	.678632 - 2	.140225 - 2	-.109421 - 3	-.183833	1	.278500 - 3	.330633 - 2	.324985
1.2	.785164 - 2	.239540 - 2	-.185810 - 3	-.204794	1	.420755 - 3	.502280 - 2	.309765
1.4	.859715 - 2	.366983 - 2	-.282846 - 3	-.221064	1	.585264 - 3	.707836 - 2	.301318
1.6	.912303 - 2	.522166 - 2	-.399731 - 3	-.233899	1	.770227 - 3	.930774 - 2	.296486
1.8	.949858 - 2	.704637 - 2	-.535616 - 3	-.244186	1	.974360 - 3	.118519 - 1	.293707
2.0	.977010 - 2	.913985 - 2	-.689686 - 3	-.252554	1	.119672 - 2	.146554 - 1	.292147
2.2	.996852 - 2	.114987 - 1	-.861184 - 3	-.259457	1	.143653 - 2	.177149 - 1	.291337
2.4	.101147 - 1	.141201 - 1	-.104941 - 2	-.265224	1	.169316 - 2	.210284 - 1	.290996
2.6	.102229 - 1	.170018 - 1	-.125370 - 2	-.270097	1	.196600 - 2	.245946 - 1	.290955
2.8	.103031 - 1	.201421 - 1	-.147345 - 2	-.274259	1	.225452 - 2	.284126 - 1	.291104
3.0	.103623 - 1	.235396 - 1	-.170807 - 2	-.277847	1	.255820 - 2	.324818 - 1	.291376
3.2	.104058 - 1	.271931 - 1	-.195700 - 2	-.280966	1	.287653 - 2	.368019 - 1	.291724
3.4	.104370 - 1	.311016 - 1	-.221968 - 2	-.283700	1	.320902 - 2	.413727 - 1	.292118
3.6	.104589 - 1	.352646 - 1	-.249559 - 2	-.286112	1	.355519 - 2	.461938 - 1	.292537
3.8	.104735 - 1	.396812 - 1	-.278420 - 2	-.288254	1	.391456 - 2	.512653 - 1	.292968
4.0	.104824 - 1	.443511 - 1	-.308502 - 2	-.290168	1	.428666 - 2	.565871 - 1	.293402
4.2	.104867 - 1	.492738 - 1	-.339754 - 2	-.291886	1	.467100 - 2	.621590 - 1	.293832
4.4	.104874 - 1	.544490 - 1	-.372126 - 2	-.293437	1	.506713 - 2	.679811 - 1	.294255
4.6	.104853 - 1	.598764 - 1	-.405569 - 2	-.294843	1	.547458 - 2	.740533 - 1	.294667
4.8	.104808 - 1	.655557 - 1	-.440034 - 2	-.296123	1	.589287 - 2	.803758 - 1	.295066
5.0	.104746 - 1	.714868 - 1	-.475473 - 2	-.297292	1	.632154 - 2	.869483 - 1	.295453
5.2	.104668 - 1	.776694 - 1	-.511839 - 2	-.298365	1	.676012 - 2	.937711 - 1	.295826
5.4	.104579 - 1	.841036 - 1	-.549083 - 2	-.299352	1	.720816 - 2	.100844	.296185
5.6	.104481 - 1	.907891 - 1	-.587158 - 2	-.300262	1	.766518 - 2	.108167	.296530
5.8	.104375 - 1	.977259 - 1	-.626016 - 2	-.301106	1	.813073 - 2	.115741	.296862
6.0	.104263 - 1	.104914	-.665611 - 2	-.301888	1	.860434 - 2	.123565	.297181
6.2	.104147 - 1	.112353	-.705895 - 2	-.302616	1	.908555 - 2	.131639	.297487

Z = -52, A = 121

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.260240 - 1	.236747 - 1	-.338956 - 2	.588057	.132582 - 1	.863274 - 1	.431988	1
.6	.110302	.885663 - 1	-.126380 - 1	.383557	.401115 - 1	.261992	.499231	1
.8	.203171	.185869	-.264086 - 1	.299679	.709040 - 1	.464980	.653922	1
1.0	.276985	.303054	-.428418 - 1	.252640	.101027	.665650	.864053	1
1.2	.329891	.431354	-.606377 - 1	.222083	.129254	.856105	.113686	2
1.4	.366615	.565459	-.790103 - 1	.200462	.155508	.103582	1 .149379	2
1.6	.391910	.702336	-.975111 - 1	.184287	.180025	.120629	1 .197400	2
1.8	.409322	.840303	-.115892	.171699	.203083	.136926	1 .264966	2
2.0	.421297	.978453	-.134020	.161608	.224926	.152627	1 .366612	2
2.2	.429488	.111631	1 -.151826	.153333	.245750	.167858	1 .536334	2
2.4	.435013	.125363	1 -.169277	.146419	.265708	.182713	1 .876259	2
2.6	.430636	.139033	1 -.186358	.140554	.284918	.197269	1 .189809	3
2.8	.440888	.152639	1 -.203068	.135516	.303472	.211583	1 -.840135	5
3.0	.442140	.166180	1 -.219409	.131140	.321442	.225699	1 -.217524	3
3.2	.442657	.179663	1 -.235389	.127305	.338884	.239655	1 -.116074	3
3.4	.442631	.193091	1 -.251014	.123915	.355842	.253477	1 -.822074	2
3.6	.442200	.206470	1 -.266294	.120897	.372354	.267189	1 -.652660	2
3.8	.441468	.219805	1 -.281235	.118194	.388448	.280811	1 -.550992	2
4.0	.440512	.233101	1 -.295846	.115758	.404149	.294355	1 -.483207	2
4.2	.439390	.246362	1 -.310134	.113552	.419476	.307837	1 -.434787	2
4.4	.438146	.259594	1 -.324105	.111545	.434446	.321266	1 -.398470	2
4.6	.436814	.272801	1 -.337766	.109712	.449073	.334651	1 -.370221	2
4.8	.435419	.285986	1 -.351123	.108030	.463370	.348001	1 -.347620	2
5.0	.433981	.299153	1 -.364180	.106483	.477346	.361321	1 -.329126	2
5.2	.432516	.312306	1 -.376942	.105054	.491010	.374618	1 -.313712	2
5.4	.431035	.325446	1 -.389414	.103731	.504369	.387897	1 -.300666	2
5.6	.429549	.338578	1 -.401599	.102502	.517431	.401162	1 -.289482	2
5.8	.428063	.351704	1 -.413501	.101358	.530201	.414418	1 -.279785	2
6.0	.426584	.364827	1 -.425123	.100291	.542684	.427667	1 -.271298	2
6.2	.425117	.377948	1 -.436467	.992923 - 1	.554884	.440913	1 -.263806	2

Z = -52, A = 121

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.974496 - 3	.457028 - 4	-.369206 - 5	-.651058		.185008 - 4	.212687 - 3	.614158
.6	.312000 - 2	.246127 - 3	-.198144 - 4	-.116140	1	.728953 - 4	.840716 - 3	.428209
.8	.512838 - 2	.681727 - 3	-.546377 - 4	-.152267	1	.162093 - 3	.187723 - 2	.363023
1.0	.663439 - 2	.138739 - 2	-.110613 - 3	-.179225	1	.280833 - 3	.326823 - 2	.332969
1.2	.769991 - 2	.237326 - 2	-.188114 - 3	-.199777	1	.424995 - 3	.497277 - 2	.317329
1.4	.844690 - 2	.363890 - 2	-.286626 - 3	-.215715	1	.591801 - 3	.696501 - 2	.300656
1.6	.897422 - 2	.518031 - 2	-.405340 - 3	-.228280	1	.779393 - 3	.922947 - 2	.303696
1.8	.935083 - 2	.699289 - 2	-.543392 - 3	-.238347	1	.986477 - 3	.117569 - 1	.300842
2.0	.962301 - 2	.907245 - 2	-.699960 - 3	-.246533	1	.121209 - 2	.145419 - 1	.299241
2.2	.982174 - 2	.114155 - 1	-.874279 - 3	-.253284	1	.145545 - 2	.175809 - 1	.298408
2.4	.996795 - 2	.140192 - 1	-.106564 - 2	-.258923	1	.171591 - 2	.200720 - 1	.290050
2.6	.100760 - 1	.168814 - 1	-.127339 - 2	-.263687	1	.199288 - 2	.244137 - 1	.298013
2.8	.101559 - 1	.200001 - 1	-.149690 - 2	-.267756	1	.228582 - 2	.282052 - 1	.298166
3.0	.102148 - 1	.233740 - 1	-.173560 - 2	-.271262	1	.259420 - 2	.322460 - 1	.298443
3.2	.102577 - 1	.270020 - 1	-.198890 - 2	-.274311	1	.291752 - 2	.365355 - 1	.298798
3.4	.102885 - 1	.308829 - 1	-.225628 - 2	-.276982	1	.325531 - 2	.410735 - 1	.299201
3.6	.103098 - 1	.350162 - 1	-.253720 - 2	-.279339	1	.360706 - 2	.458599 - 1	.299629
3.8	.103238 - 1	.394012 - 1	-.283114 - 2	-.281432	1	.397231 - 2	.508946 - 1	.300070
4.0	.103321 - 1	.440373 - 1	-.313760 - 2	-.283302	1	.435059 - 2	.561773 - 1	.300514
4.2	.103358 - 1	.489241 - 1	-.345607 - 2	-.284981	1	.474143 - 2	.617081 - 1	.300954
4.4	.103360 - 1	.540613 - 1	-.378606 - 2	-.286496	1	.514435 - 2	.674870 - 1	.301387
4.6	.103332 - 1	.594486 - 1	-.412709 - 2	-.287869	1	.555890 - 2	.735138 - 1	.301808
4.8	.103282 - 1	.650857 - 1	-.447867 - 2	-.289120	1	.598461 - 2	.797887 - 1	.302217
5.0	.103214 - 1	.709724 - 1	-.484032 - 2	-.290262	1	.642102 - 2	.863116 - 1	.302613
5.2	.103131 - 1	.771086 - 1	-.521156 - 2	-.291310	1	.686766 - 2	.930826 - 1	.302994
5.4	.103037 - 1	.834941 - 1	-.559192 - 2	-.292274	1	.732408 - 2	.100102	.303362
5.6	.102933 - 1	.901289 - 1	-.598092 - 2	-.293163	1	.778981 - 2	.107369	.303715
5.8	.102822 - 1	.970128 - 1	-.637810 - 2	-.293987	1	.826440 - 2	.114884	.304055
6.0	.102705 - 1	.104146	-.678299 - 2	-.294751	1	.874738 - 2	.122647	.304381
6.2	.102584 - 1	.111528	-.719512 - 2	-.295462	1	.923830 - 2	.130659	.304695

Z = -53, A = 127

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.241908 - 1	.230287 - 1	-.336316 - 2	.606076	.130155 - 1	.830998 - 1	.439521	1
.6	.105999	.872791 - 1	-.127040 - 1	.393985	.400399 - 1	.256440	.500318	1
.8	.198065	.184122	-.266852 - 1	.307744	.712920 - 1	.458433	.653764	1
1.0	.271977	.300952	-.433985 - 1	.259542	.101955	.658698	.864910	1
1.2	.325212	.428922	-.615067 - 1	.228279	.130712	.848911	.114181	2
1.4	.362246	.562674	-.802012 - 1	.206178	.157457	.102838	.150827	2
1.6	.387769	.699158	-.990220 - 1	.189653	.182423	.119854	.200864	2
1.8	.405329	.836684	-.117716	.176797	.205892	.136113	.272707	2
2.0	.417388	.974345	-.136146	.166494	.228113	.151770	.384062	2
2.2	.425615	.111167	1 -.154243	.158045	.249288	.166950	.579298	2
2.4	.431142	.124842	1 -.171975	.150988	.269574	.181750	.100949	3
2.6	.434744	.138452	1 -.189327	.145002	.289094	.196247	.273561	3
2.8	.436957	.151994	1 -.206298	.139860	.307941	.210498	-.582059	3
3.0	.438159	.165470	1 -.222892	.135395	.326191	.224549	-.156611	3
3.2	.438619	.178885	1 -.239116	.131481	.343900	.238437	-.954590	2
3.4	.438530	.192243	1 -.254978	.128022	.361117	.252190	-.709750	2
3.6	.438035	.205551	1 -.270488	.124943	.377878	.265831	-.577871	2
3.8	.437237	.218813	1 -.285653	.122184	.394214	.279381	-.495437	2
4.0	.436215	.232035	1 -.300483	.119699	.410149	.292853	-.439032	2
4.2	.435028	.245223	1 -.314984	.117449	.425705	.306261	-.398010	2
4.4	.433719	.258380	1 -.329163	.115402	.440899	.319616	-.366831	2
4.6	.432322	.271511	1 -.343028	.113531	.455744	.332927	-.342333	2
4.8	.430865	.284620	1 -.356584	.111816	.470255	.346202	-.322575	2
5.0	.429366	.297710	1 -.369037	.110230	.484440	.359448	-.306301	2
5.2	.427841	.310786	1 -.382790	.108780	.498310	.372670	-.292664	2
5.4	.426303	.323850	1 -.395450	.107430	.511872	.385875	-.281071	2
5.6	.424760	.336906	1 -.407820	.106177	.525133	.399066	-.271092	2
5.8	.423220	.349956	1 -.419904	.105010	.538098	.412248	-.262413	2
6.0	.421689	.363002	1 -.431704	.103922	.550775	.425424	-.254793	2
6.2	.420170	.376047	1 -.443225	.102903	.563166	.438598	-.248050	2

Z = -53, A = 127

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.911080 - 3	.450717 - 4	-.371279 - 5	-.621976	.185285 - 4	.208939 - 3	.632594
.6	.299648 - 2	.245574 - 3	-.201595 - 4	-.112726	1 .739947 - 4	.837096 - 3	.439216
.8	.498051 - 2	.683498 - 3	-.558598 - 4	-.148298	1 .165462 - 3	.187962 - 2	.371955
1.0	.647926 - 2	.139440 - 2	-.113365 - 3	-.174777	1 .287482 - 3	.328163 - 2	.341035
1.2	.754349 - 2	.238852 - 2	-.193063 - 3	-.194937	1 .435756 - 3	.500111 - 2	.324967
1.4	.829092 - 2	.366533 - 2	-.294416 - 3	-.210557	1 .607381 - 3	.701148 - 2	.316064
1.6	.881896 - 2	.522066 - 2	-.416580 - 3	-.222864	1 .800418 - 3	.929678 - 2	.310972
1.8	.919611 - 2	.704974 - 2	-.558660 - 3	-.232720	1 .101352 - 2	.118475 - 1	.308044
2.0	.946857 - 2	.914825 - 2	-.719803 - 3	-.240732	1 .124568 - 2	.146580 - 1	.306400
2.2	.966734 - 2	.115126 - 1	-.899216 - 3	-.247337	1 .149610 - 2	.177246 - 1	.305545
2.4	.981339 - 2	.141398 - 1	-.109617 - 2	-.252853	1 .176410 - 2	.210454 - 1	.305183
2.6	.992114 - 2	.170277 - 1	-.130998 - 2	-.257513	1 .204907 - 2	.246188 - 1	.305137
2.8	.100006 - 1	.201743 - 1	-.154002 - 2	-.261492	1 .235046 - 2	.284439 - 1	.305291
3.0	.100590 - 1	.235781 - 1	-.178567 - 2	-.264921	1 .266773 - 2	.325202 - 1	.305574
3.2	.101014 - 1	.272380 - 1	-.204636 - 2	-.267902	1 .300037 - 2	.368472 - 1	.305937
3.4	.101316 - 1	.311530 - 1	-.232152 - 2	-.270513	1 .334787 - 2	.414247 - 1	.306348
3.6	.101524 - 1	.353222 - 1	-.261062 - 2	-.272817	1 .370974 - 2	.462524 - 1	.306786
3.8	.101658 - 1	.397451 - 1	-.291311 - 2	-.274863	1 .408549 - 2	.513302 - 1	.307237
4.0	.101734 - 1	.444211 - 1	-.322849 - 2	-.276691	1 .447463 - 2	.566580 - 1	.307691
4.2	.101766 - 1	.493498 - 1	-.355623 - 2	-.278332	1 .487669 - 2	.622358 - 1	.308142
4.4	.101761 - 1	.545307 - 1	-.389584 - 2	-.279813	1 .529119 - 2	.680635 - 1	.308584
4.6	.101728 - 1	.599637 - 1	-.424680 - 2	-.281155	1 .571765 - 2	.741410 - 1	.309015
4.8	.101672 - 1	.656484 - 1	-.460862 - 2	-.282377	1 .615559 - 2	.804685 - 1	.309433
5.0	.101598 - 1	.715847 - 1	-.498082 - 2	-.283493	1 .660455 - 2	.870458 - 1	.309838
5.2	.101510 - 1	.777723 - 1	-.536290 - 2	-.284517	1 .706404 - 2	.938730 - 1	.310228
5.4	.101410 - 1	.842111 - 1	-.575437 - 2	-.285459	1 .753360 - 2	.100950	.310604
5.6	.101301 - 1	.909011 - 1	-.615476 - 2	-.286328	1 .801275 - 2	.108277	.310966
5.8	.101185 - 1	.978421 - 1	-.656358 - 2	-.287133	1 .850103 - 2	.115854	.311313
6.0	.101063 - 1	.105034	-.698034 - 2	-.287879	1 .899796 - 2	.123682	.311647
6.2	.100937 - 1	.112477	-.740458 - 2	-.288574	1 .950308 - 2	.131759	.311968

Z = -54, A = 128

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.225379 - 1	.224242 - 1	-.334269 - 2	.624564	.127857 - 1	.800701 - 1	.447935	1
.6	.102102	.861069 - 1	-.127936 - 1	.404573	.399976 - 1	.251253	.501853	1
.8	.193545	.182597	-.270156 - 1	.315914	.717391 - 1	.452428	.654106	1
1.0	.267700	.299201	-.440484 - 1	.266528	.102980	.652467	.866443	1
1.2	.321371	.426975	-.625140 - 1	.234550	.132308	.842609	.114781	2
1.4	.358791	.560513	-.815799 - 1	.211966	.159588	.102199	.152464	2
1.6	.384596	.696738	-.100773	.195087	.185047	.119198	.204722	2
1.8	.402341	.833954	-.119834	.181961	.208972	.135433	.281399	2
2.0	.414509	.971252	-.138625	.171444	.231619	.151057	.404225	2
2.2	.422788	.110816	1	-.157074	.162821	.253193	.166198	1
2.4	.428327	.124446	1	-.175148	.155619	.273858	.180953	1
2.6	.431912	.138006	1	-.192835	.149511	.293739	.195398	1
2.8	.434090	.151494	1	-.210134	.144265	.312935	.209595	1
3.0	.435243	.164914	1	-.227050	.139710	.331521	.223588	1
3.2	.435645	.178269	1	-.243590	.135717	.349558	.237414	1
3.4	.435493	.191566	1	-.259764	.132188	.367094	.251104	1
3.6	.434930	.204810	1	-.275581	.129047	.384168	.264680	1
3.8	.434063	.218006	1	-.291050	.126234	.400812	.278161	1
4.0	.432971	.231161	1	-.306179	.123699	.417051	.291563	1
4.2	.431714	.244279	1	-.320978	.121404	.432907	.304901	1
4.4	.430336	.257366	1	-.335452	.119316	.448397	.318184	1
4.6	.428871	.270425	1	-.349611	.117408	.463538	.331421	1
4.8	.427347	.283461	1	-.363458	.115659	.478341	.344623	1
5.0	.425783	.296479	1	-.377001	.114049	.492818	.357794	1
5.2	.424195	.309480	1	-.390244	.112562	.506978	.370941	1
5.4	.422594	.322469	1	-.403193	.111186	.520829	.384070	1
5.6	.420991	.335449	1	-.415851	.109908	.534379	.397184	1
5.8	.419393	.348423	1	-.428223	.108718	.547634	.410289	1
6.0	.417804	.361392	1	-.440311	.107607	.560599	.423388	1
6.2	.416230	.374360	1	-.452120	.106569	.573279	.436485	1

Z = -54, A = 128

P	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.852609 - 3	.438738 - 4	-.368784 - 5	-.593542		.183093 - 4	.202588 - 3	.651514
.6	.288100 - 2	.241862 - 3	-.202609 - 4	-.109414	1	.741188 - 4	.822704 - 3	.450388
.8	.484245 - 2	.676442 - 3	-.564183 - 4	-.144458	1	.166682 - 3	.185769 - 2	.380992
1.0	.633513 - 2	.138338 - 2	-.114789 - 3	-.170480	1	.290444 - 3	.325253 - 2	.349186
1.2	.739894 - 2	.237290 - 2	-.195775 - 3	-.190264	1	.440985 - 3	.496466 - 2	.332680
1.4	.814742 - 2	.364434 - 2	-.298829 - 3	-.205579	1	.615319 - 3	.696709 - 2	.323542
1.6	.867660 - 2	.519343 - 2	-.423090 - 3	-.217640	1	.811455 - 3	.924356 - 2	.318317
1.8	.905461 - 2	.701528 - 2	-.567646 - 3	-.227292	1	.102801 - 2	.117844 - 1	.315313
2.0	.932758 - 2	.910550 - 2	-.731629 - 3	-.235137	1	.126397 - 2	.145838 - 1	.313626
2.2	.952654 - 2	.114604 - 1	-.914237 - 3	-.241603	1	.151851 - 2	.176382 - 1	.312747
2.4	.967255 - 2	.140770 - 1	-.111473 - 2	-.247002	1	.179095 - 2	.209454 - 1	.312375
2.6	.978007 - 2	.169530 - 1	-.133242 - 2	-.251562	1	.208068 - 2	.245039 - 1	.312325
2.8	.985921 - 2	.200864 - 1	-.156667 - 2	-.255454	1	.238714 - 2	.283127 - 1	.312482
3.0	.991715 - 2	.234758 - 1	-.181686 - 2	-.258809	1	.270979 - 2	.323714 - 1	.312770
3.2	.995904 - 2	.271199 - 1	-.208241 - 2	-.261724	1	.304811 - 2	.366793 - 1	.313141
3.4	.998867 - 2	.310177 - 1	-.236277 - 2	-.264279	1	.340161 - 2	.412363 - 1	.313561
3.6	.100089 - 1	.351684 - 1	-.265737 - 2	-.266532	1	.376978 - 2	.460421 - 1	.314009
3.8	.100217 - 1	.395713 - 1	-.296570 - 2	-.268533	1	.415214 - 2	.510965 - 1	.314470
4.0	.100287 - 1	.442260 - 1	-.328723 - 2	-.270320	1	.454821 - 2	.563995 - 1	.314934
4.2	.100313 - 1	.491319 - 1	-.362145 - 2	-.271925	1	.495750 - 2	.619510 - 1	.315395
4.4	.100302 - 1	.542887 - 1	-.396785 - 2	-.273372	1	.537953 - 2	.677510 - 1	.315847
4.6	.100263 - 1	.596960 - 1	-.432592 - 2	-.274685	1	.581384 - 2	.737993 - 1	.316288
4.8	.100201 - 1	.653536 - 1	-.469518 - 2	-.275879	1	.625995 - 2	.800961 - 1	.316716
5.0	.100122 - 1	.712614 - 1	-.507513 - 2	-.276971	1	.671738 - 2	.866412 - 1	.317130
5.2	.100028 - 1	.774190 - 1	-.546528 - 2	-.277972	1	.718566 - 2	.934348 - 1	.317529
5.4	.999225 - 2	.838263 - 1	-.586515 - 2	-.278893	1	.766432 - 2	.100477	.317913
5.6	.998082 - 2	.904834 - 1	-.627425 - 2	-.279743	1	.815289 - 2	.107767	.318283
5.8	.996868 - 2	.973899 - 1	-.669211 - 2	-.280529	1	.865091 - 2	.115306	.318639
6.0	.995600 - 2	.104546	-.711824 - 2	-.281259	1	.915789 - 2	.123094	.318981
6.2	.994290 - 2	.111951	-.755216 - 2	-.281938	1	.967338 - 2	.131130	.319309

Z = -55, A = 133

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.209676 - 1	.218207 - 1	-.331633 - 2	.643543	.125470 - 1	.770996 - 1	.457308	1
.6	.982100 - 1	.848984 - 1	-.128609 - 1	.415327	.399138 - 1	.246015	.503840	1
.8	.188871	.180979	-.273007 - 1	.324189	.721132 - 1	.446232	.654950	1
1.0	.263137	.297289	-.446254 - 1	.273600	.103904	.645921	.868661	1
1.2	.317155	.424798	-.634171 - 1	.240899	.133774	.835886	.115489	2
1.4	.354900	.558051	-.828195 - 1	.217825	.161560	.101509	.154301	2
1.6	.380946	.693948	-.102348	.200590	.187482	.118484	.209013	2
1.8	.398847	.830785	-.121736	.187191	.211832	.134687	.291188	2
2.0	.411102	.967656	-.140843	.176459	.234869	.150272	.427725	2
2.2	.419419	.110409	1 -.159598	.167661	.256807	.165368	.698270	2
2.4	.424959	.123988	1 -.177967	.160314	.277812	.180073	.148790	3
2.6	.428521	.137493	1 -.195939	.154084	.298014	.194465	.386381	4
2.8	.430658	.150923	1 -.213514	.148733	.317515	.208603	1 -.188695	3
3.0	.431758	.164282	1 -.230697	.144086	.336392	.222535	1 -.987224	2
3.2	.432099	.177574	1 -.247496	.140014	.354710	.236299	1 -.696188	2
3.4	.431882	.190805	1 -.263922	.136416	.372516	.249923	1 -.552301	2
3.6	.431251	.203982	1 -.279985	.133213	.389853	.263432	1 -.466492	2
3.8	.430315	.217110	1 -.295694	.130344	.406751	.276845	1 -.409507	2
4.0	.429153	.230195	1 -.311058	.127759	.423238	.290178	1 -.368913	2
4.2	.427827	.243243	1 -.326086	.125419	.439337	.303445	1 -.338527	2
4.4	.426380	.256258	1 -.340786	.123290	.455065	.316657	1 -.314928	2
4.6	.424849	.269246	1 -.355166	.121345	.470439	.329824	1 -.296071	2
4.8	.423259	.282209	1 -.369231	.119562	.485472	.342954	1 -.280656	2
5.0	.421631	.295154	1 -.382989	.117920	.500174	.356053	1 -.267819	2
5.2	.419981	.308082	1 -.396444	.116405	.514557	.369129	1 -.256962	2
5.4	.418320	.320998	1 -.409601	.115002	.528629	.382186	1 -.247660	2
5.6	.416658	.333904	1 -.422465	.113699	.542396	.395229	1 -.239600	2
5.8	.415003	.346804	1 -.435040	.112486	.555866	.408263	1 -.232548	2
6.0	.413359	.359700	1 -.447329	.111354	.569044	.421291	1 -.226326	2
6.2	.411732	.372595	1 -.459337	.110296	.581935	.434317	1 -.220795	2

Z = -55, A = 133

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.797215 - 3	.431285 - 4	-.369480 - 5	-.565710		.182634 - 4	.198357 - 3	.670943
.6	.276798 - 2	.240566 - 3	-.205397 - 4	-.106200	1	.749462 - 4	.816548 - 3	.461729
.8	.470507 - 2	.676104 - 3	-.574753 - 4	-.140740	1	.169500 - 3	.185422 - 2	.390136
1.0	.619022 - 2	.138608 - 2	-.117230 - 3	-.166325	1	.296201 - 3	.325569 - 2	.357422
1.2	.725255 - 2	.238081 - 2	-.200220 - 3	-.185749	1	.450459 - 3	.497744 - 2	.340471
1.4	.800135 - 2	.365951 - 2	-.305877 - 3	-.200777	1	.629166 - 3	.699179 - 2	.331092
1.6	.853117 - 2	.521774 - 2	-.433308 - 3	-.212595	1	.830254 - 3	.928206 - 2	.325732
1.8	.890966 - 2	.705047 - 2	-.581572 - 3	-.222054	1	.105229 - 2	.118383 - 1	.322649
2.0	.918286 - 2	.915316 - 2	-.749773 - 3	-.229739	1	.129422 - 2	.146545 - 1	.320918
2.2	.938182 - 2	.115220 - 1	-.937084 - 3	-.236071	1	.155520 - 2	.177270 - 1	.320016
2.4	.952764 - 2	.141541 - 1	-.114274 - 2	-.241356	1	.183453 - 2	.210535 - 1	.319633
2.6	.963483 - 2	.170468 - 1	-.136605 - 2	-.245820	1	.213158 - 2	.246326 - 1	.319580
2.8	.971354 - 2	.201983 - 1	-.160634 - 2	-.249630	1	.244577 - 2	.284631 - 1	.319739
3.0	.977096 - 2	.236070 - 1	-.186299 - 2	-.252913	1	.277657 - 2	.325446 - 1	.320033
3.2	.981230 - 2	.272716 - 1	-.213540 - 2	-.255766	1	.312343 - 2	.368765 - 1	.320411
3.4	.984135 - 2	.311911 - 1	-.242300 - 2	-.258266	1	.348585 - 2	.414585 - 1	.320841
3.6	.986092 - 2	.353647 - 1	-.272524 - 2	-.260471	1	.386332 - 2	.462904 - 1	.321299
3.8	.987313 - 2	.397917 - 1	-.304156 - 2	-.262428	1	.425535 - 2	.513720 - 1	.321770
4.0	.987958 - 2	.444716 - 1	-.337143 - 2	-.264176	1	.466144 - 2	.567033 - 1	.322244
4.2	.988150 - 2	.494038 - 1	-.371434 - 2	-.265746	1	.508111 - 2	.622841 - 1	.322715
4.4	.987984 - 2	.545880 - 1	-.406976 - 2	-.267162	1	.551386 - 2	.681144 - 1	.323177
4.6	.987535 - 2	.600239 - 1	-.443719 - 2	-.268446	1	.595921 - 2	.741942 - 1	.323628
4.8	.986861 - 2	.657111 - 1	-.481611 - 2	-.269614	1	.641669 - 2	.805234 - 1	.324066
5.0	.986007 - 2	.716495 - 1	-.520604 - 2	-.270682	1	.688580 - 2	.871021 - 1	.324489
5.2	.985012 - 2	.778389 - 1	-.560646 - 2	-.271661	1	.736606 - 2	.939303 - 1	.324897
5.4	.983905 - 2	.842792 - 1	-.601689 - 2	-.272562	1	.785701 - 2	.101008	.325290
5.6	.982709 - 2	.909701 - 1	-.643683 - 2	-.273393	1	.835815 - 2	.108335	.325669
5.8	.981444 - 2	.979117 - 1	-.686580 - 2	-.274162	1	.886902 - 2	.115912	.326032
6.0	.980125 - 2	.105104	-.730330 - 2	-.274876	1	.938913 - 2	.123738	.326382
6.2	.978767 - 2	.112546	-.774885 - 2	-.275540	1	.991801 - 2	.131814	.326717

Z = -56, A = 134

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.195446 - 1	.212526 - 1	-.329452 - 2	.663038	.123194 - 1	.743001 - 1	.467731	1
.6	.946537 - 1	.837868 - 1	-.129467 - 1	.426250	.398536 - 1	.241087	.506291	1
.8	.184682	.179549	-.276292 - 1	.332573	.725352 - 1	.440494	.656299	1
1.0	.259181	.295673	-.452782 - 1	.280760	.104907	.639983	.871573	1
1.2	.313636	.423034	-.644332 - 1	.247326	.135356	.829916	.116308	2
1.4	.351773	.556119	-.842127 - 1	.223756	.163683	.100907	.156350	2
1.6	.378105	.691802	-.104118	.206162	.190106	.117871	.213779	2
1.8	.396194	.828373	-.123878	.192488	.214917	.134053	.302240	2
2.0	.408558	.964922	-.143348	.181539	.238383	.149610	.455347	2
2.2	.416926	.110099	1 -.162457	.172565	.260723	.164670	.783501	2
2.4	.422476	.123635	1 -.181171	.165071	.282109	.179334	.198319	3
2.6	.426019	.137094	1 -.199479	.158717	.302674	.193679	-.655945	3
2.8	.428116	.150475	1 -.217382	.153261	.322523	.207766	-.139381	3
3.0	.429164	.163781	1 -.234886	.148523	.341736	.221644	-.827459	2
3.2	.429443	.177017	1 -.252001	.144371	.360380	.235350	-.610080	2
3.4	.429158	.190190	1 -.268737	.140703	.378505	.248913	-.495116	2
3.6	.428456	.203306	1 -.285104	.137437	.396153	.262360	-.423997	2
3.8	.427448	.216372	1 -.301114	.134513	.413357	.275708	-.375662	2
4.0	.426213	.229393	1 -.316776	.131878	.430145	.288976	-.340675	2
4.2	.424813	.242375	1 -.332099	.129492	.446541	.302175	-.314177	2
4.4	.423294	.255323	1 -.347092	.127322	.462564	.315319	-.293414	2
4.6	.421692	.268242	1 -.361762	.125340	.478230	.328416	-.276705	2
4.8	.420032	.281136	1 -.376116	.123522	.493552	.341475	-.262968	2
5.0	.418336	.294010	1 -.390160	.121849	.508543	.354503	-.251473	2
5.2	.416620	.306867	1 -.403901	.120304	.523213	.367506	-.241714	2
5.4	.414895	.319711	1 -.417343	.118874	.537571	.380491	-.233323	2
5.6	.413171	.332545	1 -.430492	.117546	.551624	.393461	-.226032	2
5.8	.411455	.345372	1 -.443351	.116310	.565380	.406421	-.219636	2
6.0	.409752	.358195	1 -.455925	.115156	.578843	.419376	-.213980	2
6.2	.408067	.371016	1 -.468217	.114077	.592020	.432328	-.208943	2

Z = -56, A = 134

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.746008 - 3	.419794 - 4	-.366702 - 5	-.538438		.180324 - 4	.192297 - 3	.690907
.6	.266184 - 2	.236938 - 3	-.206285 - 4	-.103076	1	.750193 - 4	.802484 - 3	.473245
.8	.457603 - 2	.669170 - 3	-.580107 - 4	-.137138	1	.170639 - 3	.183263 - 2	.399389
1.0	.605461 - 2	.137524 - 2	-.118623 - 3	-.162305	1	.299063 - 3	.322696 - 2	.365747
1.2	.711616 - 2	.236542 - 2	-.202896 - 3	-.181384	1	.455577 - 3	.494142 - 2	.348340
1.4	.786578 - 2	.363884 - 2	-.310250 - 3	-.196127	1	.636986 - 3	.694791 - 2	.338716
1.6	.839658 - 2	.519092 - 2	-.439775 - 3	-.207722	1	.841166 - 3	.922945 - 2	.333218
1.8	.877581 - 2	.701652 - 2	-.590512 - 3	-.216995	1	.106665 - 2	.117759 - 1	.330056
2.0	.904943 - 2	.911102 - 2	-.761549 - 3	-.224525	1	.131236 - 2	.145812 - 1	.328280
2.2	.924852 - 2	.114706 - 1	-.952047 - 3	-.230729	1	.157745 - 2	.176415 - 1	.327353
2.4	.939424 - 2	.140921 - 1	-.116124 - 2	-.235906	1	.186121 - 2	.209546 - 1	.326959
2.6	.950116 - 2	.169730 - 1	-.138841 - 2	-.240278	1	.216299 - 2	.245188 - 1	.326903
2.8	.957948 - 2	.201114 - 1	-.163289 - 2	-.244008	1	.248223 - 2	.283332 - 1	.327065
3.0	.963643 - 2	.235057 - 1	-.189406 - 2	-.247222	1	.281837 - 2	.323970 - 1	.327364
3.2	.967723 - 2	.271546 - 1	-.217132 - 2	-.250016	1	.317089 - 2	.367099 - 1	.327750
3.4	.970570 - 2	.310571 - 1	-.246409 - 2	-.252462	1	.353927 - 2	.412715 - 1	.328189
3.6	.972468 - 2	.352122 - 1	-.277180 - 2	-.254620	1	.392300 - 2	.460816 - 1	.328656
3.8	.973628 - 2	.396194 - 1	-.309392 - 2	-.256536	1	.432159 - 2	.511399 - 1	.329138
4.0	.974212 - 2	.442780 - 1	-.342991 - 2	-.258247	1	.473455 - 2	.564464 - 1	.329623
4.2	.974342 - 2	.491875 - 1	-.377925 - 2	-.259783	1	.516139 - 2	.620010 - 1	.330104
4.4	.974116 - 2	.543476 - 1	-.414142 - 2	-.261169	1	.560162 - 2	.678036 - 1	.330576
4.6	.973606 - 2	.597578 - 1	-.451590 - 2	-.262426	1	.605476 - 2	.738542 - 1	.331037
4.8	.972873 - 2	.654180 - 1	-.490221 - 2	-.263569	1	.652032 - 2	.801527 - 1	.331484
5.0	.971962 - 2	.713279 - 1	-.529982 - 2	-.264614	1	.699783 - 2	.866993 - 1	.331917
5.2	.970910 - 2	.774874 - 1	-.570825 - 2	-.265571	1	.748680 - 2	.934938 - 1	.332335
5.4	.969747 - 2	.838961 - 1	-.612701 - 2	-.266453	1	.798677 - 2	.100536	.332737
5.6	.968498 - 2	.905541 - 1	-.655560 - 2	-.267266	1	.849724 - 2	.107827	.333123
5.8	.967180 - 2	.974613 - 1	-.699353 - 2	-.268018	1	.901775 - 2	.115365	.333495
6.0	.965811 - 2	.104617	-.744032 - 2	-.268717	1	.954782 - 2	.123152	.333853
6.2	.964402 - 2	.112023	-.789548 - 2	-.269366	1	.100870 - 1	.131187	.334196

Z = -57, A = 131

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.182565 - 1	.207196 - 1	-.327729 - 2	.683076	.121035 - 1	.716664 - 1	.479312	1
.6	.914220 - 1	.827752 - 1	-.130519 - 1	.437347	.398199 - 1	.236473	.509216	1
.8	.180981	.178316	-.280034 - 1	.341067	.730118 - 1	.435229	.658159	1
1.0	.255847	.294371	-.460111 - 1	.288008	.106000	.634684	.875192	1
1.2	.310843	.421709	-.655687 - 1	.253830	.137066	.824743	.117244	2
1.4	.349446	.554752	-.857679 - 1	.229760	.165974	.100400	.158626	2
1.6	.376118	.690346	-.106096	.211803	.192936	.117365	.219072	2
1.8	.394429	.826770	-.126273	.197852	.218249	.133539	.314763	2
2.0	.406926	.963113	-.146155	.186684	.242185	.149079	.488177	2
2.2	.415360	.109891	1 -.165666	.177532	.264968	.164114	.897023	2
2.4	.420929	.123396	1 -.184775	.169891	.286776	.178745	.302344	3
2.6	.424457	.136819	1 -.203471	.163413	.307746	.193052	-.297312	3
2.8	.426517	.150159	1 -.221755	.157850	.327986	.207096	-.109834	3
3.0	.427512	.163420	1 -.239636	.153021	.347581	.220926	-.709443	2
3.2	.427728	.176609	1 -.257122	.148789	.366597	.234580	-.541334	2
3.4	.427373	.189731	1 -.274225	.145049	.385088	.248089	-.447580	2
3.6	.426597	.202794	1 -.290958	.141721	.403096	.261477	-.387791	2
3.8	.425511	.215803	1 -.307330	.138740	.420657	.274766	-.346343	2
4.0	.424199	.228765	1 -.323352	.136055	.437799	.287970	-.315921	2
4.2	.422721	.241687	1 -.339034	.133623	.454547	.301105	-.292642	2
4.4	.421126	.254572	1 -.354385	.131412	.470919	.314183	-.274255	2
4.6	.419448	.267427	1 -.369413	.129391	.486934	.327212	-.259364	2
4.8	.417714	.280256	1 -.384125	.127538	.502606	.340201	-.247057	2
5.0	.415945	.293062	1 -.398528	.125833	.517946	.353158	-.236716	2
5.2	.414158	.305851	1 -.412628	.124259	.532966	.366089	-.227904	2
5.4	.412364	.318625	1 -.426430	.122802	.547674	.379001	-.220305	2
5.6	.410573	.331387	1 -.439941	.121449	.562080	.391896	-.213683	2
5.8	.408792	.344142	1 -.453163	.120189	.576189	.404781	-.207861	2
6.0	.407026	.356892	1 -.466102	.119013	.590008	.417660	-.202703	2
6.2	.405280	.369639	1 -.478761	.117914	.603543	.430535	-.198099	2

Z = -57, A = 131

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.698695 - 3	.404705 - 4	-.360610 - 5	-.511687		.176282 - 4	.184630 - 3	.711436
.6	.256230 - 2	.231146 - 3	-.205295 - 4	-.100039	1	.743562 - 4	.781131 - 3	.484942
.8	.445515 - 2	.656016 - 3	-.580225 - 4	-.133646	1	.170111 - 3	.179403 - 2	.408756
1.0	.592827 - 2	.135152 - 2	-.118954 - 3	-.158412	1	.299026 - 3	.316802 - 2	.374161
1.2	.698982 - 2	.232781 - 2	-.203772 - 3	-.177160	1	.456310 - 3	.485895 - 2	.356288
1.4	.774082 - 2	.350390 - 2	-.311095 - 3	-.191634	1	.638715 - 3	.603054 - 2	.346414
1.6	.827301 - 2	.511512 - 2	-.442406 - 3	-.203011	1	.844088 - 3	.908970 - 2	.340776
1.8	.865326 - 2	.691628 - 2	-.594342 - 3	-.212104	1	.107095 - 2	.116022 - 1	.337533
2.0	.892750 - 2	.898270 - 2	-.766789 - 3	-.219487	1	.131821 - 2	.143699 - 1	.335711
2.2	.912687 - 2	.113105 - 1	-.958909 - 3	-.225567	1	.158502 - 2	.173889 - 1	.334760
2.4	.927259 - 2	.138965 - 1	-.116993 - 2	-.230640	1	.187067 - 2	.206569 - 1	.334354
2.6	.937932 - 2	.167383 - 1	-.139916 - 2	-.234923	1	.217455 - 2	.241722 - 1	.334295
2.8	.945730 - 2	.198337 - 1	-.164592 - 2	-.238578	1	.249606 - 2	.279340 - 1	.334459
3.0	.951381 - 2	.231812 - 1	-.190959 - 2	-.241726	1	.283467 - 2	.319415 - 1	.334764
3.2	.955410 - 2	.267796 - 1	-.218959 - 2	-.244461	1	.318986 - 2	.361941 - 1	.335158
3.4	.958202 - 2	.306277 - 1	-.248534 - 2	-.246857	1	.356113 - 2	.406916 - 1	.335605
3.6	.960040 - 2	.347246 - 1	-.279629 - 2	-.248970	1	.394798 - 2	.454338 - 1	.336083
3.8	.961140 - 2	.390697 - 1	-.312190 - 2	-.250846	1	.434992 - 2	.504203 - 1	.336575
4.0	.961662 - 2	.436624 - 1	-.346166 - 2	-.252521	1	.476647 - 2	.556511 - 1	.337070
4.2	.961730 - 2	.485021 - 1	-.381504 - 2	-.254025	1	.519716 - 2	.611261 - 1	.337562
4.4	.961442 - 2	.535885 - 1	-.418153 - 2	-.255382	1	.564149 - 2	.668452 - 1	.338045
4.6	.960872 - 2	.589212 - 1	-.456064 - 2	-.256612	1	.609901 - 2	.728085 - 1	.338516
4.8	.960078 - 2	.645000 - 1	-.495187 - 2	-.257731	1	.656923 - 2	.790157 - 1	.338973
5.0	.959108 - 2	.703245 - 1	-.535473 - 2	-.258754	1	.705169 - 2	.854670 - 1	.339415
5.2	.957999 - 2	.763947 - 1	-.576873 - 2	-.259691	1	.754592 - 2	.921623 - 1	.339842
5.4	.956779 - 2	.827103 - 1	-.619339 - 2	-.260554	1	.805145 - 2	.991017 - 1	.340253
5.6	.955474 - 2	.892711 - 1	-.662823 - 2	-.261350	1	.856782 - 2	.106285	.340649
5.8	.954103 - 2	.960772 - 1	-.707277 - 2	-.262086	1	.909455 - 2	.113713	.341029
6.0	.952681 - 2	.103128	-.752653 - 2	-.262770	1	.963119 - 2	.121384	.341394
6.2	.951221 - 2	.110425	-.798903 - 2	-.263406	1	.101773 - 1	.129300	.341745

Z = -58, A = 136

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.169966 - 1	.201681 - 1	-.324922 - 2	.703685	.118692 - 1	.690226 - 1	.492178	1
.6	.880098 - 1	.816527 - 1	-.131138 - 1	.448624	.397108 - 1	.231607	.512629	1
.8	.176775	.176831	-.282860 - 1	.349673	.733490 - 1	.429412	.660538	1
1.0	.251737	.292651	-.465929 - 1	.295345	.106891	.628551	.879536	1
1.2	.307080	.419788	-.664854 - 1	.260414	.138510	.818486	.118301	2
1.4	.346015	.552611	-.870297 - 1	.235838	.167935	.997623	.161147	2
1.6	.372933	.687941	-.107700	.217514	.195370	.116709	.224960	2
1.8	.391403	.824049	-.128211	.203284	.221115	.132858	.329036	2
2.0	.403987	.960022	-.148413	.191895	.245447	.148365	.527778	2
2.2	.412457	.109541	1 -.168234	.182564	.268598	.163361	.105556	3
2.4	.418024	.123000	1 -.187640	.174775	.290749	.177947	.660403	3
2.6	.421523	.136372	1 -.206623	.168172	.312042	.192205	-.190099	3
2.8	.423537	.149659	1 -.225183	.162502	.332588	.206196	-.901508	2
3.0	.424473	.162865	1 -.243330	.157581	.352475	.219970	-.618672	2
3.2	.424623	.175995	1 -.261075	.153268	.371770	.233566	-.485150	2
3.4	.424197	.189057	1 -.278429	.149457	.390530	.247015	-.407410	2
3.6	.423347	.202057	1 -.295405	.146066	.408798	.260341	-.356542	2
3.8	.422187	.215003	1 -.312014	.143029	.426612	.273566	-.320670	2
4.0	.420800	.227900	1 -.328269	.140293	.443999	.286707	-.294015	2
4.2	.419248	.240756	1 -.344178	.137816	.460987	.299777	-.273430	2
4.4	.417580	.253575	1 -.359751	.135563	.477594	.312788	-.257054	2
4.6	.415830	.266362	1 -.374997	.133505	.493839	.325750	-.243715	2
4.8	.414026	.279123	1 -.389923	.131617	.509737	.338673	-.232639	2
5.0	.412190	.291861	1 -.404537	.129881	.525300	.351564	-.223296	2
5.2	.410337	.304581	1 -.418845	.128277	.540539	.364428	-.215307	2
5.4	.408479	.317286	1 -.432852	.126793	.555465	.377273	-.208398	2
5.6	.406626	.329980	1 -.446564	.125414	.570084	.390102	-.202362	2
5.8	.404785	.342666	1 -.459986	.124131	.584405	.402921	-.197045	2
6.0	.402962	.355347	1 -.473123	.122934	.598434	.415734	-.192324	2
6.2	.401160	.368026	1 -.485977	.121814	.612177	.428543	-.188104	2

Z = -58, A = 136

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.653230 - 3	.397740 - 4	-.360843 - 5	-.485418		.175610 - 4	.180708 - 3	.732559
.6	.246245 - 2	.229890 - 3	-.207892 - 4	-.970828		.751019 - 4	.775152 - 3	.496826
.8	.433058 - 2	.655670 - 3	-.590475 - 4	-.130257	1	.172805 - 3	.179050 - 2	.418238
1.0	.579547 - 2	.135414 - 2	-.121358 - 3	-.154639	1	.304642 - 3	.317089 - 2	.382668
1.2	.685503 - 2	.233555 - 2	-.208182 - 3	-.173070	1	.465641 - 3	.487122 - 2	.364318
1.4	.760600 - 2	.359878 - 2	-.318916 - 3	-.187286	1	.652429 - 3	.686249 - 2	.354190
1.6	.813859 - 2	.513900 - 2	-.452611 - 3	-.198453	1	.862767 - 3	.912717 - 2	.348407
1.8	.851915 - 2	.695085 - 2	-.608271 - 3	-.207374	1	.109512 - 2	.116547 - 1	.345082
2.0	.879349 - 2	.902952 - 2	-.784953 - 3	-.214615	1	.134836 - 2	.144388 - 1	.343214
2.2	.899276 - 2	.113710 - 1	-.981795 - 3	-.220576	1	.162163 - 2	.174756 - 1	.342237
2.4	.913822 - 2	.139721 - 1	-.119801 - 2	-.225549	1	.191418 - 2	.207624 - 1	.341819
2.6	.924455 - 2	.168302 - 1	-.143286 - 2	-.229747	1	.222538 - 2	.242979 - 1	.341757
2.8	.932204 - 2	.199433 - 1	-.168568 - 2	-.233328	1	.255463 - 2	.280808 - 1	.341923
3.0	.937800 - 2	.233097 - 1	-.195583 - 2	-.236413	1	.290139 - 2	.321104 - 1	.342234
3.2	.941770 - 2	.269280 - 1	-.224270 - 2	-.239093	1	.326512 - 2	.363863 - 1	.342635
3.4	.944499 - 2	.307972 - 1	-.254571 - 2	-.241440	1	.364531 - 2	.409081 - 1	.343092
3.6	.946275 - 2	.349164 - 1	-.286429 - 2	-.243510	1	.404145 - 2	.456755 - 1	.343580
3.8	.947311 - 2	.392848 - 1	-.319791 - 2	-.245347	1	.445305 - 2	.506883 - 1	.344083
4.0	.947769 - 2	.439019 - 1	-.354601 - 2	-.246988	1	.487961 - 2	.559465 - 1	.344589
4.2	.947776 - 2	.487671 - 1	-.390809 - 2	-.248461	1	.532064 - 2	.614498 - 1	.345091
4.4	.947426 - 2	.538800 - 1	-.428361 - 2	-.249790	1	.577567 - 2	.671982 - 1	.345584
4.6	.946795 - 2	.592402 - 1	-.467207 - 2	-.250994	1	.624421 - 2	.731917 - 1	.346065
4.8	.945943 - 2	.648476 - 1	-.507297 - 2	-.252090	1	.672577 - 2	.794302 - 1	.346533
5.0	.944915 - 2	.707017 - 1	-.548580 - 2	-.253092	1	.721989 - 2	.859138 - 1	.346985
5.2	.943749 - 2	.768024 - 1	-.591008 - 2	-.254010	1	.772607 - 2	.926423 - 1	.347421
5.4	.942475 - 2	.831496 - 1	-.634529 - 2	-.254854	1	.824386 - 2	.996159 - 1	.347841
5.6	.941117 - 2	.897431 - 1	-.679097 - 2	-.255634	1	.877276 - 2	.106835	.348245
5.8	.939694 - 2	.965828 - 1	-.724661 - 2	-.256355	1	.931231 - 2	.114298	.348634
6.0	.938222 - 2	.103669	-.771174 - 2	-.257024	1	.986204 - 2	.122007	.349007
6.2	.936713 - 2	.111000	-.818587 - 2	-.257647	1	.104215 - 1	.129961	.349366

Z = -59, A = 138

p	F ₀	f ₂	g ₂	tanΔ ₂	f ₋₂	g ₋₂	tanΔ ₋₂	
.4	.158499 - 1	.196463 - 1	-.322461 - 2	.724897	.116445 - 1	.665228 - 1	.506481	1
.6	.848683 - 1	.806112 - 1	-.131902 - 1	.460086	.396208 - 1	.227003	.516546	1
.8	.172964	.175503	-.286034 - 1	.358393	.737254 - 1	.423979	.663447	1
1.0	.248124	.291181	-.472363 - 1	.302773	.107848	.622927	.884625	1
1.2	.303893	.418217	-.674944 - 1	.267078	.140050	.812860	.119486	2
1.4	.343217	.550920	-.884170 - 1	.241989	.170022	.991994	.163932	2
1.6	.370421	.686084	-.109464	.223295	.197961	.116139	.231511	2
1.8	.389077	.821969	-.130344	.208783	.224169	.132272	.345382	2
2.0	.401768	.957665	-.150905	.197172	.248930	.147755	.576302	2
2.2	.410284	.109272	1 -.171072	.187660	.272480	.162719	.129158	3
2.4	.415855	.122693	1 -.190815	.179722	.295006	.177269	-.298477	4
2.6	.419329	.136024	1 -.210123	.172993	.316654	.191484	-.138646	3
2.8	.421298	.149265	1 -.229000	.167216	.337540	.205429	-.761319	2
3.0	.422175	.162421	1 -.247455	.162201	.357752	.219153	-.546866	2
3.2	.422257	.175499	1 -.265500	.157807	.377362	.232695	-.438492	2
3.4	.421757	.188507	1 -.283149	.153925	.396426	.246088	-.373108	2
3.6	.420830	.201450	1 -.300413	.150471	.414992	.259356	-.329374	2
3.8	.419592	.214338	1 -.317307	.147377	.433096	.272522	-.298067	2
4.0	.418126	.227175	1 -.333840	.144590	.450770	.285601	-.274550	2
4.2	.416496	.239969	1 -.350024	.142067	.468038	.298608	-.256238	2
4.4	.414751	.252725	1 -.365870	.139772	.484922	.311555	-.241576	2
4.6	.412926	.265448	1 -.381385	.137676	.501441	.324453	-.229570	2
4.8	.411049	.278144	1 -.396578	.135753	.517609	.337311	-.219558	2
5.0	.409141	.290816	1 -.411456	.133984	.533441	.350135	-.211082	2
5.2	.407218	.303470	1 -.426027	.132352	.548948	.362934	-.203813	2
5.4	.405293	.316108	1 -.440296	.130840	.564138	.375711	-.197509	2
5.6	.403374	.328735	1 -.454268	.129436	.579022	.388474	-.191990	2
5.8	.401470	.341353	1 -.467949	.128129	.593607	.401226	-.187118	2
6.0	.399585	.353967	1 -.481344	.126910	.607899	.413971	-.182784	2
6.2	.397723	.366577	1 -.494456	.125770	.621904	.426713	-.178905	2

Z = -59, A = 138

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.611117 - 3	.388059 - 4	-.358543 - 5	-.459596	.173616 - 4	.175578 - 3	.754310
.6	.236830 - 2	.226992 - 3	-.209061 - 4	-.942036	.752866 - 4	.763643 - 3	.508903
.8	.421292 - 2	.650608 - 3	-.596762 - 4	-.126965	1 .174235 - 3	.177407 - 2	.427838
1.0	.567037 - 2	.134701 - 2	-.122961 - 3	-.150981	1 .308065 - 3	.315086 - 2	.391268
1.2	.672851 - 2	.232646 - 2	-.211237 - 3	-.169107	1 .471664 - 3	.484827 - 2	.372432
1.4	.747987 - 2	.358770 - 2	-.323886 - 3	-.183076	1 .661554 - 3	.683681 - 2	.362043
1.6	.801314 - 2	.512578 - 2	-.459935 - 3	-.194040	1 .875432 - 3	.909861 - 2	.356114
1.8	.839422 - 2	.693521 - 2	-.618365 - 3	-.202796	1 .111172 - 2	.116229 - 1	.352705
2.0	.866882 - 2	.901108 - 2	-.798215 - 3	-.209900	1 .136927 - 2	.144033 - 1	.350789
2.2	.886809 - 2	.113493 - 1	-.998604 - 3	-.215747	1 .164720 - 2	.174356 - 1	.349786
2.4	.901336 - 2	.139466 - 1	-.121873 - 2	-.220624	1 .194475 - 2	.207175 - 1	.349356
2.6	.911935 - 2	.168003 - 1	-.145786 - 2	-.224740	1 .226129 - 2	.242472 - 1	.349291
2.8	.919638 - 2	.199083 - 1	-.171530 - 2	-.228250	1 .259620 - 2	.280236 - 1	.349459
3.0	.925181 - 2	.232690 - 1	-.199041 - 2	-.231274	1 .294894 - 2	.320461 - 1	.349775
3.2	.929093 - 2	.268809 - 1	-.228257 - 2	-.233901	1 .331898 - 2	.363139 - 1	.350185
3.4	.931762 - 2	.307430 - 1	-.259121 - 2	-.236201	1 .370579 - 2	.408269 - 1	.350651
3.6	.933475 - 2	.348543 - 1	-.291575 - 2	-.238230	1 .410886 - 2	.455847 - 1	.351149
3.8	.934447 - 2	.392141 - 1	-.325563 - 2	-.240030	1 .452770 - 2	.505871 - 1	.351662
4.0	.934843 - 2	.438217 - 1	-.361033 - 2	-.241638	1 .496181 - 2	.558339 - 1	.352179
4.2	.934786 - 2	.486767 - 1	-.397931 - 2	-.243081	1 .541071 - 2	.613251 - 1	.352692
4.4	.934374 - 2	.537786 - 1	-.436205 - 2	-.244383	1 .587389 - 2	.670606 - 1	.353196
4.6	.933682 - 2	.591270 - 1	-.475804 - 2	-.245563	1 .635089 - 2	.730402 - 1	.353688
4.8	.932770 - 2	.647217 - 1	-.516677 - 2	-.246636	1 .684123 - 2	.792641 - 1	.354165
5.0	.931683 - 2	.705623 - 1	-.558775 - 2	-.247617	1 .734441 - 2	.857321 - 1	.354627
5.2	.930461 - 2	.766487 - 1	-.602046 - 2	-.248517	1 .785996 - 2	.924442 - 1	.355073
5.4	.929131 - 2	.829807 - 1	-.646442 - 2	-.249344	1 .838741 - 2	.994005 - 1	.355502
5.6	.927719 - 2	.895581 - 1	-.691914 - 2	-.250107	1 .892627 - 2	.106601	.355915
5.8	.926243 - 2	.963809 - 1	-.738413 - 2	-.250814	1 .947608 - 2	.114046	.356312
6.0	.924720 - 2	.103449	-.785890 - 2	-.251469	1 .100364 - 1	.121734	.356694
6.2	.923161 - 2	.110762	-.834297 - 2	-.252079	1 .106066 - 1	.129667	.357060

Z = -60, A = 141

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.147780 - 1	.191361 - 1	-.319836 - 2	.746743	.114196 - 1	.641064 - 1	.522401	1
.6	.818266 - 1	.795794 - 1	-.132601 - 1	.471738	.395157 - 1	.222469	.520988	1
.8	.169214	.174181	-.289095 - 1	.367230	.740757 - 1	.418583	.666898	1
1.0	.244538	.289714	-.478637 - 1	.310293	.108773	.617316	.890482	1
1.2	.300711	.416645	-.684822 - 1	.273822	.141554	.807232	.120805	2
1.4	.340411	.549225	-.897770 - 1	.248215	.172069	.986350	.167005	2
1.6	.367892	.684219	-.111194	.229146	.200508	.115567	1 .238817	2
1.8	.386727	.819879	-.132435	.214350	.227173	.131683	1 .364239	2
2.0	.399518	.955293	-.153345	.202514	.252355	.147142	1 .637019	2
2.2	.408076	.109001	1 -.173849	.192821	.276297	.162075	1 .167958	3
2.4	.413648	.122384	1 -.193917	.184732	.299189	.176588	1 -.446280	3
2.6	.417094	.135673	1 -.213539	.177877	.321184	.190761	1 -.108451	3
2.8	.419014	.148868	1 -.232720	.171991	.342398	.204659	1 -.656464	2
3.0	.419830	.161975	1 -.251471	.166883	.362925	.218333	1 -.488674	2
3.2	.419841	.175002	1 -.269803	.162408	.382838	.231823	1 -.399144	2
3.4	.419266	.187955	1 -.287731	.158454	.402197	.245161	1 -.343486	2
3.6	.418261	.200842	1 -.305270	.154935	.421048	.258372	1 -.305542	2
3.8	.416943	.213671	1 -.322431	.151785	.439430	.271479	1 -.278018	2
4.0	.415397	.226449	1 -.339228	.148947	.457375	.284498	1 -.257141	2
4.2	.413688	.239182	1 -.355671	.146377	.474910	.297443	1 -.240764	2
4.4	.411865	.251875	1 -.371772	.144040	.492057	.310329	1 -.227573	2
4.6	.409964	.264536	1 -.387538	.141906	.508835	.323164	1 -.216720	2
4.8	.408013	.277168	1 -.402980	.139948	.525259	.335958	1 -.207635	2
5.0	.406032	.289776	1 -.418105	.138147	.541344	.348719	1 -.199917	2
5.2	.404039	.302364	1 -.432919	.136485	.557101	.361453	1 -.193279	2
5.4	.402046	.314938	1 -.447430	.134945	.572541	.374166	1 -.187509	2
5.6	.400061	.327499	1 -.461643	.133516	.587672	.386864	1 -.182447	2
5.8	.398093	.340051	1 -.475563	.132185	.602503	.399551	1 -.177969	2
6.0	.396147	.352598	1 -.489196	.130944	.617041	.412232	1 -.173980	2
6.2	.394226	.365143	1 -.502545	.129783	.631290	.424910	1 -.170403	2

Z = -60, A = 141

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.571580 - 3	.379456 - 4	-.356878 - 5	-.434187		.171969 - 4	.170966 - 3	.776724
.6	.227746 - 2	.224641 - 3	-.210611 - 4	-.913970		.756187 - 4	.753995 - 3	.521179
.8	.409814 - 2	.647065 - 3	-.604195 - 4	-.123767	1	.176021 - 3	.176178 - 2	.437560
1.0	.554768 - 2	.134300 - 2	-.124807 - 3	-.147431	1	.312137 - 3	.313809 - 2	.399964
1.2	.660403 - 2	.232273 - 2	-.214716 - 3	-.165265	1	.478697 - 3	.483647 - 2	.380631
1.4	.735551 - 2	.358488 - 2	-.329509 - 3	-.178995	1	.672109 - 3	.682684 - 2	.369975
1.6	.700929 - 2	.512436 - 2	-.468186 - 3	-.189766	1	.889995 - 3	.909094 - 2	.363897
1.8	.827077 - 2	.693553 - 2	-.629702 - 3	-.198363	1	.113073 - 2	.116178 - 1	.360403
2.0	.854552 - 2	.901336 - 2	-.813072 - 3	-.205335	1	.139314 - 2	.144008 - 1	.358437
2.2	.874473 - 2	.113537 - 1	-.101740 - 2	-.211072	1	.167631 - 2	.174357 - 1	.357408
2.4	.888975 - 2	.139531 - 1	-.124186 - 2	-.215856	1	.197949 - 2	.207201 - 1	.356966
2.6	.899535 - 2	.168090 - 1	-.148570 - 2	-.219893	1	.230200 - 2	.242522 - 1	.356897
2.8	.907191 - 2	.199191 - 1	-.174823 - 2	-.223336	1	.264325 - 2	.280308 - 1	.357067
3.0	.912679 - 2	.232818 - 1	-.202880 - 2	-.226301	11	.300268 - 2	.320552 - 1	.357389
3.2	.916531 - 2	.268956 - 1	-.232678 - 2	-.228876	1	.337974 - 2	.363249 - 1	.357807
3.4	.919137 - 2	.307594 - 1	-.264157 - 2	-.231131	1	.377390 - 2	.408394 - 1	.358282
3.6	.920787 - 2	.348722 - 1	-.297260 - 2	-.233120	1	.418467 - 2	.455985 - 1	.358791
3.8	.921695 - 2	.392334 - 1	-.331932 - 2	-.234885	1	.461152 - 2	.506020 - 1	.359315
4.0	.922026 - 2	.438422 - 1	-.368117 - 2	-.236461	1	.505397 - 2	.558496 - 1	.359842
4.2	.921905 - 2	.486981 - 1	-.405763 - 2	-.237875	1	.551151 - 2	.613413 - 1	.360366
4.4	.921431 - 2	.538007 - 1	-.444817 - 2	-.239151	1	.598367 - 2	.670770 - 1	.360881
4.6	.920678 - 2	.591496 - 1	-.485227 - 2	-.240307	1	.646994 - 2	.730566 - 1	.361384
4.8	.919705 - 2	.647445 - 1	-.526943 - 2	-.241360	1	.696985 - 2	.792800 - 1	.361871
5.0	.918561 - 2	.705851 - 1	-.569912 - 2	-.242321	1	.748292 - 2	.857474 - 1	.362343
5.2	.917281 - 2	.766712 - 1	-.614086 - 2	-.243202	1	.800865 - 2	.924586 - 1	.362798
5.4	.915896 - 2	.830026 - 1	-.659414 - 2	-.244013	1	.854658 - 2	.994136 - 1	.363237
5.6	.914430 - 2	.895791 - 1	-.705847 - 2	-.244761	1	.909622 - 2	.106612	.363659
5.8	.912902 - 2	.964007 - 1	-.753336 - 2	-.245453	1	.965708 - 2	.114055	.364065
6.0	.911327 - 2	.103467	-.801832 - 2	-.246095	1	.102287 - 1	.121742	.364455
6.2	.909719 - 2	.110779	-.851285 - 2	-.246693	1	.108106 - 1	.129672	.364829

Z = -61, A = 143

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.137893 - 1	.186455 - 1	-.317304 - 2	.769261	.111996 - 1	.617971 - 1	.540156	1
.6	.789575 - 1	.785922 - 1	-.133343 - 1	.483586	.394137 - 1	.218096	.525978	1
.8	.165684	.172941	-.292280 - 1	.376186	.744347 - 1	.413394	.670907	1
1.0	.241208	.288374	-.485151 - 1	.317907	.109718	.611965	.897137	1
1.2	.297817	.415250	-.695074 - 1	.280648	.143091	.801920	.122266	2
1.4	.337917	.547756	-.911885 - 1	.254516	.174164	.981079	.170391	2
1.6	.365692	.682630	-.112990	.235069	.203115	.115037	.246981	2
1.8	.384718	.818112	-.134605	.219985	.230251	.131142	.386165	2
2.0	.397617	.953290	-.155879	.207923	.255868	.146581	.714993	2
2.2	.406221	.108772	1 -.176734	.198047	.280213	.161487	.243394	3
2.4	.411795	.122121	1 -.197141	.189806	.303484	.175966	1 -.237966	3
2.6	.415213	.135371	1 -.217091	.182823	.325837	.190101	1 -.886215	2
2.8	.417083	.148524	1 -.236591	.176829	.347392	.203956	1 -.575182	2
3.0	.417835	.161586	1 -.255650	.171626	.368246	.217583	1 -.440619	2
3.2	.417775	.174563	1 -.274284	.167069	.388474	.231023	1 -.365553	2
3.4	.417121	.187465	1 -.292507	.163042	.408138	.244309	1 -.317678	2
3.6	.416036	.200299	1 -.310334	.159460	.427286	.257466	1 -.284491	2
3.8	.414635	.213073	1 -.327778	.156252	.445959	.270516	1 -.260133	2
4.0	.413007	.225794	1 -.344853	.153362	.464189	.283476	1 -.241496	2
4.2	.411216	.238468	1 -.361571	.150746	.482004	.296363	1 -.226777	2
4.4	.409312	.251102	1 -.377942	.148367	.499427	.309188	1 -.214858	2
4.6	.407332	.263702	1 -.393977	.146194	.516477	.321962	1 -.205009	2
4.8	.405304	.276272	1 -.409684	.144201	.533171	.334694	1 -.196734	2
5.0	.403249	.288818	1 -.425071	.142368	.549523	.347392	1 -.189682	2
5.2	.401183	.301343	1 -.440147	.140675	.565546	.360063	1 -.183602	2
5.4	.399119	.313853	1 -.454917	.139108	.581250	.372713	1 -.178305	2
5.6	.397067	.326350	1 -.469388	.137653	.596645	.385348	1 -.173648	2
5.8	.395033	.338838	1 -.483566	.136299	.611738	.397972	1 -.169521	2
6.0	.393022	.351321	1 -.497455	.135035	.626537	.410589	1 -.165840	2
6.2	.391040	.363801	1 -.511060	.133854	.641048	.423204	1 -.162534	2

Z = -61, A = .143

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.534716 - 3	.370176 - 4	-.354348 - 5	-.409160		.169888 - 4	.166079 - 3	.799839
.6	.219084 - 2	.221806 - 3	-.211662 - 4	-.886592		.757560 - 4	.742740 - 3	.533662
.8	.398802 - 2	.642078 - 3	-.610263 - 4	-.120657	1	.177371 - 3	.174555 - 2	.447407
1.0	.542981 - 2	.133596 - 2	-.126381 - 3	-.143984	1	.315463 - 3	.311823 - 2	.408758
1.2	.648451 - 2	.231374 - 2	-.217738 - 3	-.161537	1	.484612 - 3	.481368 - 2	.388916
1.4	.723621 - 2	.357393 - 2	-.334444 - 3	-.175038	1	.681171 - 3	.680101 - 2	.377989
1.6	.777057 - 2	.511129 - 2	-.475474 - 3	-.185622	1	.902543 - 3	.906251 - 2	.371758
1.8	.815249 - 2	.692005 - 2	-.639760 - 3	-.194066	1	.114721 - 2	.115861 - 1	.368176
2.0	.842744 - 2	.899508 - 2	-.826295 - 3	-.200911	1	.141392 - 2	.143653 - 1	.366161
2.2	.862661 - 2	.113321 - 1	-.103416 - 2	-.206543	1	.170174 - 2	.173959 - 1	.365105
2.4	.877139 - 2	.139277 - 1	-.126253 - 2	-.211238	1	.200990 - 2	.206752 - 1	.364650
2.6	.887662 - 2	.167792 - 1	-.151064 - 2	-.215199	1	.233773 - 2	.242014 - 1	.364577
2.8	.895269 - 2	.198842 - 1	-.177778 - 2	-.218576	1	.268463 - 2	.279735 - 1	.364749
3.0	.900702 - 2	.232411 - 1	-.206329 - 2	-.221485	1	.305001 - 2	.319906 - 1	.365077
3.2	.904495 - 2	.268484 - 1	-.236655 - 2	-.224011	1	.343334 - 2	.362522 - 1	.365503
3.4	.907039 - 2	.307050 - 1	-.268694 - 2	-.226222	1	.383409 - 2	.407577 - 1	.365988
3.6	.908624 - 2	.348099 - 1	-.302390 - 2	-.228172	1	.425174 - 2	.455070 - 1	.366507
3.8	.909467 - 2	.391622 - 1	-.337686 - 2	-.229903	1	.468579 - 2	.504998 - 1	.367042
4.0	.909733 - 2	.437615 - 1	-.374527 - 2	-.231448	1	.513573 - 2	.557360 - 1	.367581
4.2	.909549 - 2	.486070 - 1	-.412859 - 2	-.232835	1	.560108 - 2	.612153 - 1	.368116
4.4	.909012 - 2	.536984 - 1	-.452631 - 2	-.234086	1	.608134 - 2	.669378 - 1	.368642
4.6	.908197 - 2	.590352 - 1	-.493789 - 2	-.235220	1	.657601 - 2	.729033 - 1	.369155
4.8	.907164 - 2	.646172 - 1	-.536283 - 2	-.236251	1	.708462 - 2	.791118 - 1	.369653
5.0	.905960 - 2	.704440 - 1	-.580061 - 2	-.237194	1	.760668 - 2	.855633 - 1	.370135
5.2	.904623 - 2	.765155 - 1	-.625073 - 2	-.238057	1	.814170 - 2	.922577 - 1	.370600
5.4	.903182 - 2	.828314 - 1	-.671269 - 2	-.238852	1	.868921 - 2	.991951 - 1	.371048
5.6	.901661 - 2	.893916 - 1	-.718600 - 2	-.239585	1	.924872 - 2	.106375	.371479
5.8	.900080 - 2	.961960 - 1	-.767017 - 2	-.240264	1	.981976 - 2	.113799	.371894
6.0	.898455 - 2	.103244	-.816469 - 2	-.240894	1	.104018 - 1	.121465	.372292
6.2	.896797 - 2	.110537	-.866909 - 2	-.241479	1	.109945 - 1	.129374	.372674

Z = -62, A = 144

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.128774 - 1	.181742 - 1	-.314869 - 2	.792488	.109848 - 1	.595906 - 1	.560007	1
.6	.762534 - 1	.776496 - 1	-.134128 - 1	.495637	.393159 - 1	.213882	.531542	1
.8	.162368	.171784	-.295596 - 1	.385263	.748041 - 1	.408414	.675492	1
1.0	.238134	.287164	-.491918 - 1	.325615	.110685	.606879	.904622	1
1.2	.295213	.414037	-.705718 - 1	.287556	.144666	.796932	.123878	2
1.4	.335740	.546522	-.926539 - 1	.260893	.176311	.976188	.174121	2
1.6	.363829	.681325	-.114854	.241063	.205790	.114550	.256135	2
1.8	.383059	.816678	-.136860	.225690	.233410	.130648	.411911	2
2.0	.396073	.951666	-.158511	.213399	.259474	.146073	.818572	2
2.2	.404727	.108585	1 -.179732	.203338	.284236	.160956	.453145	3
2.4	.410305	.121904	1 -.200492	.194944	.307898	.175406	-.160789	3
2.6	.413694	.135120	1 -.220784	.187832	.330621	.189505	-.746156	2
2.8	.415514	.148234	1 -.240616	.181728	.352529	.203321	-.510391	2
3.0	.416201	.161254	1 -.259999	.176431	.373722	.216905	-.400302	2
3.2	.416066	.174186	1 -.278948	.171790	.394277	.230298	-.336567	2
3.4	.415332	.187040	1 -.297480	.167691	.414258	.243534	-.295011	2
3.6	.414162	.199824	1 -.315610	.164044	.433716	.256639	-.265776	2
3.8	.412676	.212545	1 -.333352	.160778	.452691	.269635	-.244093	2
4.0	.410962	.225212	1 -.350720	.157837	.471219	.282540	-.227372	2
4.2	.409086	.237830	1 -.367727	.155174	.489326	.295369	-.214084	2
4.4	.407099	.250407	1 -.384385	.152752	.507038	.308136	-.203270	2
4.6	.405037	.262949	1 -.400703	.150540	.524374	.320851	-.194299	2
4.8	.402929	.275459	1 -.416691	.148512	.541352	.333522	-.186736	2
5.0	.400796	.287945	1 -.432358	.146646	.557985	.346159	-.180273	2
5.2	.398655	.300409	1 -.447712	.144923	.574288	.358769	-.174687	2
5.4	.396519	.312857	1 -.462759	.143328	.590271	.371357	-.169810	2
5.6	.394396	.325291	1 -.477506	.141848	.605944	.383929	-.165514	2
5.8	.392293	.337717	1 -.491959	.140469	.621315	.396490	-.161702	2
6.0	.390217	.350136	1 -.506123	.139184	.636391	.409045	-.158295	2
6.2	.388170	.362552	1 -.520003	.137981	.651181	.421596	-.155233	2

Z = -62, A = 144

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.500346 - 3	.360319 - 4	-.351008 - 5	-.384483	.167407 - 4	.160966 - 3	.823697
.6	.210825 - 2	.218528 - 3	-.212229 - 4	-.859864	.757066 - 4	.730033 - 3	.546358
.8	.388238 - 2	.635749 - 3	-.614990 - 4	-.117631	1 .178297 - 3	.172569 - 2	.457383
1.0	.531666 - 2	.132608 - 2	-.127686 - 3	-.140634	1 .318054 - 3	.309173 - 2	.417654
1.2	.636985 - 2	.229980 - 2	-.220306 - 3	-.157918	1 .489421 - 3	.478055 - 2	.397290
1.4	.712189 - 2	.355531 - 2	-.338692 - 3	-.171199	1 .688602 - 3	.676112 - 2	.386086
1.6	.765690 - 2	.508721 - 2	-.481798 - 3	-.181603	1 .913087 - 3	.901450 - 2	.379699
1.8	.803933 - 2	.688964 - 2	-.648534 - 3	-.189899	1 .116117 - 2	.115293 - 1	.376027
2.0	.831451 - 2	.895735 - 2	-.837875 - 3	-.196623	1 .143162 - 2	.142986 - 1	.373962
2.2	.851367 - 2	.112860 - 1	-.104889 - 2	-.202153	1 .172349 - 2	.173182 - 1	.372878
2.4	.865824 - 2	.138721 - 1	-.128074 - 2	-.206762	1 .203600 - 2	.205852 - 1	.372410
2.6	.876310 - 2	.167129 - 1	-.153265 - 2	-.210649	1 .236848 - 2	.240979 - 1	.372333
2.8	.883870 - 2	.198060 - 1	-.180391 - 2	-.213964	1 .272031 - 2	.278552 - 1	.372507
3.0	.889248 - 2	.231497 - 1	-.209385 - 2	-.216818	1 .309092 - 2	.318561 - 1	.372841
3.2	.892980 - 2	.267426 - 1	-.240184 - 2	-.219296	1 .347977 - 2	.361001 - 1	.373275
3.4	.895462 - 2	.305835 - 1	-.272728 - 2	-.221466	1 .388631 - 2	.405867 - 1	.373770
3.6	.896982 - 2	.346713 - 1	-.306958 - 2	-.223379	1 .431005 - 2	.453157 - 1	.374299
3.8	.897760 - 2	.390053 - 1	-.342818 - 2	-.225077	1 .475047 - 2	.502868 - 1	.374845
4.0	.897962 - 2	.435848 - 1	-.380253 - 2	-.226592	1 .520707 - 2	.554999 - 1	.375395
4.2	.897713 - 2	.484092 - 1	-.419209 - 2	-.227953	1 .567935 - 2	.609547 - 1	.375941
4.4	.897112 - 2	.534780 - 1	-.459634 - 2	-.229180	1 .616683 - 2	.666512 - 1	.376478
4.6	.896234 - 2	.587909 - 1	-.501475 - 2	-.230291	1 .666902 - 2	.725893 - 1	.377002
4.8	.895140 - 2	.643476 - 1	-.544681 - 2	-.231303	1 .718543 - 2	.787690 - 1	.377511
5.0	.893877 - 2	.701477 - 1	-.589202 - 2	-.232227	1 .771557 - 2	.851902 - 1	.378003
5.2	.892482 - 2	.761910 - 1	-.634986 - 2	-.233074	1 .825897 - 2	.918529 - 1	.378478
5.4	.890985 - 2	.824773 - 1	-.681985 - 2	-.233854	1 .881514 - 2	.987570 - 1	.378936
5.6	.889409 - 2	.890064 - 1	-.730148 - 2	-.234573	1 .938360 - 2	.105903	.379376
5.8	.887775 - 2	.957783 - 1	-.779426 - 2	-.235238	1 .996388 - 2	.113290	.379800
6.0	.886097 - 2	.102793	-.829770 - 2	-.235855	1 .105555 - 1	.120919	.380207
6.2	.884389 - 2	.110050	-.881131 - 2	-.236429	1 .111580 - 1	.128789	.380597

Z = -63, A = 147

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.120178 - 1	.177088 - 1	-.312164 - 2	.816466	.107677 - 1	.574442 - 1	.582274	1
.6	.735944 - 1	.766967 - 1	-.134799 - 1	.507896	.391951 - 1	.209684	.537709	1
.8	.159020	.170591	-.298686 - 1	.394465	.751309 - 1	.403376	.680675	1
1.0	.234957	.285888	-.498332 - 1	.333420	.111594	.601668	.912975	1
1.2	.292457	.412725	-.715867 - 1	.294548	.146169	.791764	.125652	2
1.4	.333377	.545157	-.940540 - 1	.267347	.178374	.971072	.178232	2
1.6	.361757	.679859	-.116636	.247130	.208366	.114037	.266437	2
1.8	.381174	.815051	-.139012	.231463	.236456	.130126	.442505	2
2.0	.394292	.949820	-.161021	.218942	.262951	.145532	.962584	2
2.2	.402988	.108373	1 -.182586	.208694	.288112	.160391	.402644	4
2.4	.408563	.121660	1 -.203676	.200146	.312147	.174809	1 -.120595	3
2.6	.411918	.134838	1 -.224287	.192905	.335221	.188872	1 -.642040	2
2.8	.413684	.147912	1 -.244426	.186690	.357462	.202647	1 -.457567	2
3.0	.414303	.160888	1 -.264106	.181297	.378972	.216186	1 -.366012	2
3.2	.414090	.173774	1 -.283344	.176573	.399833	.229532	1 -.311312	2
3.4	.413274	.186578	1 -.302157	.172401	.420109	.242718	1 -.274952	2
3.6	.412019	.199311	1 -.320561	.168689	.439852	.255771	1 -.249035	2
3.8	.410446	.211979	1 -.338571	.165365	.459106	.268713	1 -.229630	2
4.0	.408646	.224590	1 -.356202	.162371	.477905	.281563	1 -.214558	2
4.2	.406686	.237153	1 -.373467	.159661	.496279	.294337	1 -.202513	2
4.4	.404615	.249672	1 -.390379	.157197	.514253	.307046	1 -.192666	2
4.6	.402471	.262155	1 -.406947	.154946	.531847	.319703	1 -.184467	2
4.8	.400283	.274607	1 -.423183	.152882	.549080	.332316	1 -.177533	2
5.0	.398074	.287033	1 -.439095	.150983	.565966	.344895	1 -.171593	2
5.2	.395858	.299437	1 -.454691	.149230	.582519	.357445	1 -.166446	2
5.4	.393649	.311824	1 -.469978	.147608	.598750	.369974	1 -.161943	2
5.6	.391456	.324199	1 -.484964	.146101	.614669	.382487	1 -.157971	2
5.8	.389286	.336563	1 -.499654	.144699	.630286	.394990	1 -.154440	2
6.0	.387144	.348922	1 -.514054	.143391	.645607	.407485	1 -.151281	2
6.2	.385035	.361277	1 -.528169	.142167	.660640	.419979	1 -.148437	2

Z = -63, A = 147

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.467960 - 3	.352256 - 4	-.349006 - 5	-.360127	.165632 - 4	.156685 - 3	.848341
.6	.202801 - 2	.216250 - 3	-.213605 - 4	-.833753	.759675 - 4	.720693 - 3	.559276
.8	.377832 - 2	.632273 - 3	-.622099 - 4	-.114684	1 .179964 - 3	.171358 - 2	.467490
1.0	.520429 - 2	.132212 - 2	-.129490 - 3	-.137378	1 .321980 - 3	.307903 - 2	.426652
1.2	.625538 - 2	.229611 - 2	-.223738 - 3	-.154403	1 .496296 - 3	.476871 - 2	.405755
1.4	.700733 - 2	.355250 - 2	-.344268 - 3	-.167471	1 .698992 - 3	.675099 - 2	.394267
1.6	.754271 - 2	.508576 - 2	-.490005 - 3	-.177702	1 .927482 - 3	.900656 - 2	.387721
1.8	.792542 - 2	.688986 - 2	-.659829 - 3	-.185857	1 .118001 - 2	.115238 - 1	.383958
2.0	.820069 - 2	.895945 - 2	-.852692 - 3	-.192463	1 .145531 - 2	.142956 - 1	.381840
2.2	.839972 - 2	.112901 - 1	-.106764 - 2	-.197895	1 .175241 - 2	.173175 - 1	.380728
2.4	.854399 - 2	.138782 - 1	-.130382 - 2	-.202421	1 .207053 - 2	.205868 - 1	.380247
2.6	.864842 - 2	.167209 - 1	-.156044 - 2	-.206238	1 .240897 - 2	.241016 - 1	.380166
2.8	.872349 - 2	.198159 - 1	-.183678 - 2	-.209492	1 .276710 - 2	.278608 - 1	.380342
3.0	.877669 - 2	.231614 - 1	-.213216 - 2	-.212293	1 .314436 - 2	.318633 - 1	.380681
3.2	.881339 - 2	.267559 - 1	-.244594 - 2	-.214726	1 .354018 - 2	.361087 - 1	.381124
3.4	.883756 - 2	.305982 - 1	-.277750 - 2	-.216855	1 .395404 - 2	.405965 - 1	.381629
3.6	.885210 - 2	.346872 - 1	-.312627 - 2	-.218733	1 .438541 - 2	.453263 - 1	.382169
3.8	.885922 - 2	.390221 - 1	-.349166 - 2	-.220398	1 .483378 - 2	.502980 - 1	.382726
4.0	.886050 - 2	.436023 - 1	-.387312 - 2	-.221885	1 .529865 - 2	.555112 - 1	.383287
4.2	.885745 - 2	.484272 - 1	-.427012 - 2	-.223220	1 .577951 - 2	.609659 - 1	.383845
4.4	.885080 - 2	.534962 - 1	-.468211 - 2	-.224424	1 .627588 - 2	.666620 - 1	.384393
4.6	.884140 - 2	.588090 - 1	-.510858 - 2	-.225515	1 .678725 - 2	.725994 - 1	.384928
4.8	.882986 - 2	.643652 - 1	-.554899 - 2	-.226507	1 .731315 - 2	.787780 - 1	.385447
5.0	.881663 - 2	.701646 - 1	-.600285 - 2	-.227414	1 .785308 - 2	.851977 - 1	.385950
5.2	.880210 - 2	.762068 - 1	-.646965 - 2	-.228245	1 .840655 - 2	.918586 - 1	.386435
5.4	.878657 - 2	.824918 - 1	-.694887 - 2	-.229009	1 .897309 - 2	.987606 - 1	.386903
5.6	.877027 - 2	.890192 - 1	-.744003 - 2	-.229714	1 .955221 - 2	.105904	.387352
5.8	.875340 - 2	.957891 - 1	-.794262 - 2	-.230367	1 .101434 - 1	.113288	.387785
6.0	.873611 - 2	.102801	-.845616 - 2	-.230972	1 .107463 - 1	.120914	.388200
6.2	.871854 - 2	.110055	-.898014 - 2	-.231536	1 .113603 - 1	.128780	.388600

Z = -64, A = 154

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.111965 - 1	.172410 - 1	-.308965 - 2	.841240	.105437 - 1	.553316 - 1	.607351	1
.6	.709086 - 1	.756972 - 1	-.135252 - 1	.520370	.390330 - 1	.205411	.544516	1
.8	.155481	.169280	-.301310 - 1	.403793	.753779 - 1	.398102	.686480	1
1.0	.231439	.284410	-.503984 - 1	.341322	.112388	.596070	.922240	1
1.2	.289249	.411122	-.724919 - 1	.301625	.147523	.786073	.127601	2
1.4	.330487	.543409	-.953076 - 1	.273878	.180253	.965317	.182767	2
1.6	.359104	.677920	-.118232	.253269	.210725	.113450	.278088	2
1.8	.378671	.812866	-.140938	.237306	.239251	.129520	.479379	2
2.	.391867	.947333	-.163261	.224552	.266142	.144901	.117605	3
2.2	.400586	.108089	1 -.185124	.214116	.291666	.159727	1 -.565967	3
2.4	.406146	.121336	1 -.206498	.205413	.316036	.174108	1 -.959592	2
2.6	.409460	.134471	1 -.227379	.198041	.339421	.188129	1 -.561666	2
2.8	.411166	.147498	1 -.247775	.191715	.361955	.201859	1 -.413705	2
3.0	.411713	.160424	1 -.267701	.186226	.383741	.215350	1 -.336509	2
3.2	.411421	.173258	1 -.287175	.181419	.404864	.228645	1 -.289124	2
3.4	.410522	.186008	1 -.306214	.177172	.425390	.241779	1 -.257084	2
3.6	.409182	.198685	1 -.324835	.173395	.445373	.254778	1 -.233977	2
3.8	.407524	.211297	1 -.343056	.170012	.464858	.267666	1 -.216527	2
4.0	.405640	.223851	1 -.360891	.166967	.483881	.280460	1 -.202884	2
4.2	.403596	.236354	1 -.378354	.164209	.502472	.293178	1 -.191925	2
4.4	.401443	.248815	1 -.395458	.161702	.520656	.305831	1 -.182929	2
4.6	.399221	.261239	1 -.412214	.159412	.538456	.318432	1 -.175411	2
4.8	.396957	.273631	1 -.428633	.157312	.555890	.330989	1 -.169036	2
5.0	.394673	.285998	1 -.444723	.155381	.572974	.343512	1 -.163560	2
5.2	.392385	.298343	1 -.460494	.153598	.589720	.356007	1 -.158806	2
5.4	.390107	.310671	1 -.475954	.151947	.606142	.368482	1 -.154639	2
5.6	.387847	.322986	1 -.491108	.150415	.622249	.380941	1 -.150957	2
5.8	.385613	.335293	1 -.505964	.148989	.638050	.393390	1 -.147679	2
6.0	.383409	.347594	1 -.520527	.147658	.653554	.405833	1 -.144743	2
6.2	.381240	.359893	1 -.534803	.146414	.668768	.418276	1 -.142096	2

Z = -64, A = 154

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.437241 - 3	.347210 - 4	-.349568 - 5	-.336065		.165176 - 4	.153771 - 3	.873819
.6	.194914 - 2	.215770 - 3	-.216576 - 4	-.808225		.768365 - 4	.717354 - 3	.572422
.8	.367403 - 2	.634041 - 3	-.633924 - 4	-.111812	1	.183093 - 3	.171566 - 2	.477733
1.0	.509022 - 2	.132914 - 2	-.132281 - 3	-.134210	1	.328541 - 3	.309185 - 2	.435755
1.2	.613810 - 2	.231150 - 2	-.228879 - 3	-.150986	1	.507243 - 3	.479646 - 2	.414312
1.4	.688918 - 2	.357926 - 2	-.352468 - 3	-.163850	1	.715116 - 3	.679700 - 2	.402534
1.6	.742436 - 2	.512667 - 2	-.501929 - 3	-.173914	1	.949466 - 3	.907359 - 2	.395825
1.8	.780696 - 2	.694752 - 2	-.676102 - 3	-.181932	1	.120846 - 2	.116143 - 1	.391969
2.0	.808202 - 2	.903628 - 2	-.873901 - 3	-.188425	1	.149080 - 2	.144117 - 1	.389798
2.2	.828071 - 2	.113884 - 1	-.109434 - 2	-.193762	1	.179548 - 2	.174613 - 1	.388658
2.4	.842452 - 2	.140002 - 1	-.133653 - 2	-.198209	1	.212166 - 2	.207603 - 1	.388162
2.6	.852841 - 2	.168687 - 1	-.159966 - 2	-.201958	1	.246866 - 2	.243067 - 1	.388077
2.8	.860288 - 2	.199915 - 1	-.188299 - 2	-.205154	1	.283581 - 2	.280993 - 1	.388255
3.0	.865543 - 2	.233668 - 1	-.218581 - 2	-.207904	1	.322253 - 2	.321371 - 1	.388600
3.2	.869147 - 2	.269931 - 1	-.250747 - 2	-.210293	1	.362825 - 2	.364195 - 1	.389051
3.4	.871495 - 2	.308690 - 1	-.284734 - 2	-.212383	1	.405242 - 2	.409462 - 1	.389566
3.6	.872882 - 2	.349936 - 1	-.320481 - 2	-.214226	1	.449450 - 2	.457166 - 1	.390117
3.8	.873527 - 2	.393659 - 1	-.357930 - 2	-.215861	1	.495398 - 2	.507306 - 1	.390685
4.0	.873596 - 2	.439854 - 1	-.397024 - 2	-.217321	1	.543034 - 2	.559880 - 1	.391258
4.2	.873218 - 2	.488513 - 1	-.437707 - 2	-.218630	1	.592305 - 2	.614886 - 1	.391827
4.4	.872490 - 2	.539632 - 1	-.479924 - 2	-.219812	1	.643162 - 2	.672324 - 1	.392387
4.6	.871489 - 2	.593207 - 1	-.523622 - 2	-.220882	1	.695555 - 2	.732191 - 1	.392933
4.8	.870274 - 2	.649234 - 1	-.568748 - 2	-.221856	1	.749432 - 2	.794488 - 1	.393464
5.0	.868894 - 2	.707710 - 1	-.615249 - 2	-.222746	1	.804745 - 2	.859214 - 1	.393977
5.2	.867384 - 2	.768633 - 1	-.663072 - 2	-.223561	1	.861443 - 2	.926369 - 1	.394472
5.4	.865777 - 2	.832000 - 1	-.712168 - 2	-.224311	1	.919477 - 2	.995952 - 1	.394950
5.6	.864094 - 2	.897810 - 1	-.762483 - 2	-.225003	1	.978798 - 2	.106796	.395409
5.8	.862356 - 2	.966062 - 1	-.813968 - 2	-.225644	1	.103936 - 1	.114241	.395850
6.0	.860578 - 2	.103675	-.866573 - 2	-.226238	1	.110110 - 1	.121928	.396275
6.2	.858772 - 2	.110988	-.920246 - 2	-.226791	1	.116399 - 1	.129857	.396682

Z = -65, A = 155

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.104665 - 1	.168116 - 1	-.306473 - 2	.866859	.103375 - 1	.533741 - 1	.635726	1
.6	.685520 - 1	.748299 - 1	-.136016 - 1	.533067	.389224 - 1	.201517	.552001	1
.8	.152539	.168247	-.304669 - 1	.413251	.757278 - 1	.393466	.692936	1
1.0	.228753	.283388	-.510918 - 1	.349324	.113346	.591372	.932465	1
1.2	.287056	.410166	-.735874 - 1	.308788	.149104	.781534	.129735	2
1.4	.328742	.542503	-.968183 - 1	.280486	.182424	.960942	.187773	2
1.6	.357688	.677012	-.120154	.259482	.213439	.113022	.291326	2
1.8	.377468	.811893	-.143261	.243219	.242462	.129092	.524559	2
2.0	.390782	.946232	-.165971	.230230	.269813	.144464	.152416	3
2.2	.399551	.107960	1 -.188207	.219604	.295762	.159274	1 -.260623	3
2.4	.405112	.121183	1 -.209941	.210744	.320530	.173631	1 -.793416	2
2.6	.408392	.134289	1 -.231169	.203240	.344291	.187623	1 -.497862	2
2.8	.410041	.147283	1 -.251901	.196802	.367182	.201319	1 -.376774	2
3.0	.410516	.160172	1 -.272153	.191216	.389310	.214772	1 -.310907	2
3.2	.410142	.172965	1 -.291944	.186324	.410762	.228025	1 -.269515	2
3.4	.409155	.185673	1 -.311293	.182003	.431608	.241114	1 -.241100	2
3.6	.407723	.198304	1 -.330218	.178160	.451902	.254067	1 -.220391	2
3.8	.405973	.210868	1 -.348737	.174718	.471690	.266905	1 -.204628	2
4.0	.403996	.223373	1 -.366865	.171620	.491910	.279650	1 -.192231	2
4.2	.401861	.235826	1 -.384617	.168815	.509894	.292315	1 -.182224	2
4.4	.399619	.248234	1 -.402007	.166264	.528368	.304915	1 -.173979	2
4.6	.397308	.260604	1 -.419045	.163934	.546453	.317462	1 -.167066	2
4.8	.394959	.272942	1 -.435744	.161799	.564170	.329964	1 -.161188	2
5.0	.392592	.285253	1 -.452113	.159834	.581535	.342431	1 -.156128	2
5.2	.390224	.297542	1 -.468160	.158020	.598561	.354871	1 -.151725	2
5.4	.387868	.309813	1 -.483894	.156341	.615261	.367289	1 -.147860	2
5.6	.385534	.322071	1 -.499323	.154783	.631646	.379691	1 -.144440	2
5.8	.383227	.334320	1 -.514453	.153332	.647725	.392083	1 -.141391	2
6.0	.380953	.346563	1 -.529290	.151979	.663506	.404470	1 -.138656	2
6.2	.378717	.358804	1 -.543839	.150714	.678998	.416855	1 -.136188	2

Z = -65, A = 155

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.409129 - 3	.337937 - 4	-.345966 - 5	-.312269	.162610 - 4	.149007 - 3	.900185
.6	.187625 - 2	.212595 - 3	-.216994 - 4	-.783250	.767266 - 4	.705060 - 3	.585805
.8	.357832 - 2	.627859 - 3	-.638382 - 4	-.109013	1 .183918 - 3	.169620 - 2	.488115
1.0	.498669 - 2	.131948 - 2	-.133553 - 3	-.131127	1 .331013 - 3	.306579 - 2	.444967
1.2	.603281 - 2	.229787 - 2	-.231416 - 3	-.147662	1 .511931 - 3	.476386 - 2	.422964
1.4	.678405 - 2	.356105 - 2	-.356693 - 3	-.160330	1 .722483 - 3	.675744 - 2	.410889
1.6	.731977 - 2	.510314 - 2	-.508241 - 3	-.170234	1 .959907 - 3	.902634 - 2	.404014
1.8	.770279 - 2	.691778 - 2	-.684876 - 3	-.178120	1 .122233 - 2	.115584 - 1	.400063
2.0	.797801 - 2	.899937 - 2	-.885493 - 3	-.184504	1 .150842 - 2	.143461 - 1	.397837
2.2	.817663 - 2	.113432 - 1	-.110909 - 2	-.189750	1 .181715 - 2	.173848 - 1	.396667
2.4	.832018 - 2	.139456 - 1	-.135477 - 2	-.194119	1 .214769 - 2	.206716 - 1	.396158
2.6	.842366 - 2	.168036 - 1	-.162171 - 2	-.197803	1 .249932 - 2	.242046 - 1	.396068
2.8	.849763 - 2	.199147 - 1	-.190916 - 2	-.200942	1 .287141 - 2	.279824 - 1	.396248
3.0	.854960 - 2	.232769 - 1	-.221641 - 2	-.203644	1 .326334 - 2	.320042 - 1	.396599
3.2	.858501 - 2	.268889 - 1	-.254280 - 2	-.205990	1 .367455 - 2	.362692 - 1	.397058
3.4	.860785 - 2	.307491 - 1	-.288769 - 2	-.208043	1 .410449 - 2	.407769 - 1	.397583
3.6	.862105 - 2	.348567 - 1	-.325049 - 2	-.209852	1 .455263 - 2	.455271 - 1	.398145
3.8	.862683 - 2	.392108 - 1	-.363060 - 2	-.211458	1 .501844 - 2	.505195 - 1	.398725
4.0	.862686 - 2	.438105 - 1	-.402745 - 2	-.212891	1 .550140 - 2	.557538 - 1	.399310
4.2	.862242 - 2	.486553 - 1	-.444049 - 2	-.214177	1 .600100 - 2	.612299 - 1	.399891
4.4	.861449 - 2	.537447 - 1	-.486916 - 2	-.215337	1 .651674 - 2	.669476 - 1	.400462
4.6	.860385 - 2	.590783 - 1	-.531292 - 2	-.216388	1 .704811 - 2	.729070 - 1	.401020
4.8	.859108 - 2	.646557 - 1	-.577126 - 2	-.217344	1 .759461 - 2	.791078 - 1	.401561
5.0	.857668 - 2	.704765 - 1	-.624364 - 2	-.218217	1 .815574 - 2	.855500 - 1	.402085
5.2	.856100 - 2	.765406 - 1	-.672954 - 2	-.219017	1 .873102 - 2	.922337 - 1	.402591
5.4	.854436 - 2	.828477 - 1	-.722845 - 2	-.219754	1 .931993 - 2	.991588 - 1	.403078
5.6	.852698 - 2	.893976 - 1	-.773985 - 2	-.220433	1 .992200 - 2	.106325	.403547
5.8	.850906 - 2	.961902 - 1	-.826325 - 2	-.221061	1 .105367 - 1	.113733	.403998
6.0	.849076 - 2	.103225	-.879813 - 2	-.221645	1 .111636 - 1	.121382	.404431
6.2	.847220 - 2	.110503	-.934399 - 2	-.222187	1 .118022 - 1	.129273	.404848

Z = -66, A = 160

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.976752 - 2	.163794 - 1	-.303504 - 2	.893375	.101248 - 1	.514455 - 1	.668015	1
.6	.661622 - 1	.739152 - 1	-.136564 - 1	.545994	.387713 - 1	.197545	.560211	1
.8	.149404	.167096	-.307568 - 1	.422842	.759986 - 1	.388594	.700074	1
1.0	.225723	.282163	-.517096 - 1	.357427	.114188	.586285	.943708	1
1.2	.284409	.408917	-.745742 - 1	.316037	.150536	.776471	.132073	2
1.4	.326466	.541211	-.981840 - 1	.287174	.184413	.955927	.193310	2
1.6	.355689	.675628	-.121893	.265769	.215938	.112519	.306471	2
1.8	.375643	.810358	-.145359	.249203	.245425	.128581	.581140	2
2.0	.389051	.944486	-.168414	.235977	.273199	.143936	.219227	3
2.2	.397852	.107759	1 - .190978	.225159	.299537	.158722	1 - .167692	3
2.4	.403400	.120950	1 - .213025	.216141	.324666	.173050	1 - .673770	2
2.6	.406638	.134020	1 - .234552	.208504	.348764	.187007	1 - .445978	2
2.8	.408224	.146975	1 - .255571	.201952	.371972	.200664	1 - .345243	2
3.0	.408623	.159821	1 - .276098	.196269	.394402	.214075	1 - .288471	2
3.2	.408166	.172569	1 - .296155	.191291	.416142	.227284	1 - .252051	2
3.4	.407089	.185230	1 - .315760	.186896	.437263	.240327	1 - .226708	2
3.6	.405567	.197811	1 - .334934	.182986	.457822	.253231	1 - .208060	2
3.8	.403725	.210324	1 - .353694	.179486	.477868	.266019	1 - .193765	2
4.0	.401657	.222777	1 - .372058	.176334	.497439	.278713	1 - .182459	2
4.2	.399433	.235176	1 - .390040	.173481	.516567	.291327	1 - .173293	2
4.4	.397103	.247531	1 - .407655	.170886	.535280	.303875	1 - .165713	2
4.6	.394708	.259846	1 - .424914	.168517	.553601	.316369	1 - .159339	2
4.8	.392276	.272129	1 - .441830	.166345	.571549	.328819	1 - .153906	2
5.0	.389829	.284384	1 - .458413	.164347	.589141	.341234	1 - .149218	2
5.2	.387385	.296618	1 - .474671	.162503	.606392	.353621	1 - .145132	2
5.4	.384954	.308834	1 - .490614	.160796	.623315	.365987	1 - .141539	2
5.6	.382548	.321037	1 - .506249	.159211	.639921	.378338	1 - .138355	2
5.8	.380172	.333231	1 - .521582	.157736	.656219	.390679	1 - .135512	2
6.0	.377832	.345419	1 - .536622	.156360	.672218	.403015	1 - .132960	2
6.2	.375531	.357606	1 - .551372	.155074	.687927	.415351	1 - .130655	2

Z = -66, A = -160

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.382450 - 3	.331552 - 4	-.344859 - 5	-.288713	.161324 - 4	.145545 - 3	.927495
.6	.180450 - 2	.211159 - 3	-.218979 - 4	-.758799	.772122 - 4	.698559 - 3	.599433
.8	.348223 - 2	.626772 - 3	-.647492 - 4	-.106281	1 .186181 - 3	.169052 - 2	.498640
1.0	.488134 - 2	.132050 - 2	-.135803 - 3	-.128123	1 .336085 - 3	.306457 - 2	.454290
1.2	.592460 - 2	.230285 - 2	-.235645 - 3	-.144429	1 .520644 - 3	.476983 - 2	.431713
1.4	.667522 - 2	.357169 - 2	-.363518 - 3	-.156907	1 .735524 - 3	.677261 - 2	.419334
1.6	.721092 - 2	.512096 - 2	-.518241 - 3	-.166656	1 .977863 - 3	.905223 - 2	.412289
1.8	.759395 - 2	.694413 - 2	-.698591 - 3	-.174415	1 .124573 - 2	.115962 - 1	.408240
2.0	.786906 - 2	.903544 - 2	-.903431 - 3	-.180694	1 .153774 - 2	.143968 - 1	.405960
2.2	.806740 - 2	.113901 - 1	-.113173 - 2	-.185852	1 .185284 - 2	.174494 - 1	.404759
2.4	.821054 - 2	.140043 - 1	-.138257 - 2	-.190147	1 .219019 - 2	.207508 - 1	.404235
2.6	.831350 - 2	.168750 - 1	-.165511 - 2	-.193767	1 .254904 - 2	.242992 - 1	.404141
2.8	.838688 - 2	.199996 - 1	-.194858 - 2	-.196852	1 .292874 - 2	.280930 - 1	.404323
3.0	.843821 - 2	.233763 - 1	-.226225 - 2	-.199507	1 .332868 - 2	.321315 - 1	.404680
3.2	.847296 - 2	.270033 - 1	-.259545 - 2	-.201811	1 .374828 - 2	.364139 - 1	.405148
3.4	.849511 - 2	.308795 - 1	-.294753 - 2	-.203828	1 .418697 - 2	.409397 - 1	.405683
3.6	.850763 - 2	.350037 - 1	-.331789 - 2	-.205606	1 .464422 - 2	.457085 - 1	.406256
3.8	.851274 - 2	.393750 - 1	-.370591 - 2	-.207183	1 .511949 - 2	.507200 - 1	.406847
4.0	.851210 - 2	.439927 - 1	-.411102 - 2	-.208590	1 .561226 - 2	.559742 - 1	.407444
4.2	.850700 - 2	.488561 - 1	-.453265 - 2	-.209853	1 .612200 - 2	.614707 - 1	.408037
4.4	.849843 - 2	.539647 - 1	-.497024 - 2	-.210992	1 .664820 - 2	.672094 - 1	.408620
4.6	.848716 - 2	.593181 - 1	-.542325 - 2	-.212024	1 .719036 - 2	.731902 - 1	.409189
4.8	.847379 - 2	.649160 - 1	-.589114 - 2	-.212963	1 .774796 - 2	.794132 - 1	.409742
5.0	.845879 - 2	.707579 - 1	-.637337 - 2	-.213820	1 .832049 - 2	.858781 - 1	.410277
5.2	.844255 - 2	.768436 - 1	-.686942 - 2	-.214606	1 .890747 - 2	.925850 - 1	.410793
5.4	.842535 - 2	.831730 - 1	-.737877 - 2	-.215329	1 .950837 - 2	.995339 - 1	.411290
5.6	.840743 - 2	.897457 - 1	-.790089 - 2	-.215996	1 .101227 - 1	.106725	.411769
5.8	.838900 - 2	.965617 - 1	-.843527 - 2	-.216613	1 .107500 - 1	.114157	.412230
6.0	.837019 - 2	.103621	-.898141 - 2	-.217186	1 .113897 - 1	.121832	.412672
6.2	.835114 - 2	.110923	-.953878 - 2	-.217718	1 .120414 - 1	.129749	.413097

Z = -67, A = 161

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.913743 - 2	.159760 - 1	-.300995 - 2	.920846	.992493 - 2	.496383 - 1	.705002	1
.6	.640121 - 1	.730961 - 1	-.137321 - 1	.559158	.386547 - 1	.193852	.569196	1
.8	.146693	.166145	-.310974 - 1	.432568	.763396 - 1	.384180	.707932	1
1.0	.223285	.281267	-.524173 - 1	.365633	.115145	.581843	.956031	1
1.2	.282483	.408136	-.756953 - 1	.323375	.152129	.772231	.134631	2
1.4	.325008	.540528	-.997313 - 1	.293942	.186609	.951899	.199447	2
1.6	.354574	.674991	-.123862	.272130	.218689	.112131	.323919	2
1.8	.374749	.809701	-.147738	.255259	.248685	.128197	.653884	2
2.0	.388278	.943744	-.171187	.241792	.276926	.143548	.399066	3
2.2	.397129	.107670	1 -.194131	.230781	.303697	.158321	1 -.122784	3
2.4	.402676	.120841	1 -.216542	.221603	.329230	.172629	1 -.583648	2
2.6	.405876	.133886	1 -.238420	.213832	.353709	.186562	1 -.403027	2
2.8	.407401	.146810	1 -.259778	.207166	.377278	.200188	1 -.318053	2
3.0	.407722	.159623	1 -.280635	.201383	.400053	.213565	1 -.268681	2
3.2	.407177	.172335	1 -.301011	.196320	.422125	.226736	1 -.236424	2
3.4	.406007	.184956	1 -.320928	.191849	.443567	.239738	1 -.213704	2
3.6	.404388	.197495	1 -.340407	.187872	.464440	.252599	1 -.196839	2
3.8	.402448	.209964	1 -.359466	.184312	.484791	.265342	1 -.183825	2
4.0	.400283	.222370	1 -.378123	.181106	.504660	.277989	1 -.173480	2
4.2	.397962	.234722	1 -.396394	.178205	.524083	.290554	1 -.165059	2
4.4	.395538	.247027	1 -.414294	.175566	.543085	.303053	1 -.158072	2
4.6	.393050	.259293	1 -.431836	.173157	.561692	.315496	1 -.152180	2
4.8	.390529	.271524	1 -.449032	.170949	.579924	.327895	1 -.147145	2
5.0	.387995	.283728	1 -.465893	.168917	.597798	.340258	1 -.142793	2
5.2	.385467	.295909	1 -.482427	.167042	.615329	.352593	1 -.138993	2
5.4	.382955	.308071	1 -.498645	.165306	.632531	.364906	1 -.135646	2
5.6	.380471	.320221	1 -.514554	.163694	.649415	.377205	1 -.132675	2
5.8	.378019	.332361	1 -.530161	.162195	.665992	.389493	1 -.130021	2
6.0	.375606	.344495	1 -.545474	.160796	.682270	.401776	1 -.127635	2
6.2	.373235	.356627	1 -.560497	.159488	.698257	.414060	1 -.125477	2

Z = -67, A = 161

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.357864 - 3	.322691 - 4	-.341128 - 5	-.265372		.158731 - 4	.141023 - 3	.955810
.6	.173740 - 2	.208067 - 3	-.219308 - 4	-.734845		.770674 - 4	.686597 - 3	.613317
.8	.339258 - 2	.620726 - 3	-.651785 - 4	-.103615	1	.186945 - 3	.167145 - 2	.509312
1.0	.478374 - 2	.131105 - 2	-.137055 - 3	-.125196	1	.338483 - 3	.303899 - 2	.463725
1.2	.582511 - 2	.228953 - 2	-.238164 - 3	-.141280	1	.525257 - 3	.473784 - 2	.440561
1.4	.657581 - 2	.355393 - 2	-.367729 - 3	-.153576	1	.742821 - 3	.673383 - 2	.427871
1.6	.711200 - 2	.509803 - 2	-.524544 - 3	-.163176	1	.988240 - 3	.900594 - 2	.420652
1.8	.749540 - 2	.691517 - 2	-.707364 - 3	-.170812	1	.125953 - 2	.115415 - 1	.416504
2.0	.777065 - 2	.899949 - 2	-.915029 - 3	-.176990	1	.155530 - 2	.143326 - 1	.414166
2.2	.796889 - 2	.113461 - 1	-.114650 - 2	-.182063	1	.187446 - 2	.173745 - 1	.412935
2.4	.811174 - 2	.139512 - 1	-.140083 - 2	-.186286	1	.221616 - 2	.206640 - 1	.412396
2.6	.821428 - 2	.168115 - 1	-.167717 - 2	-.189845	1	.257965 - 2	.241992 - 1	.412297
2.8	.828712 - 2	.199246 - 1	-.197476 - 2	-.192878	1	.296428 - 2	.279786 - 1	.412480
3.0	.833786 - 2	.232884 - 1	-.229285 - 2	-.195487	1	.336941 - 2	.320012 - 1	.412843
3.2	.837197 - 2	.269014 - 1	-.263077 - 2	-.197752	1	.379448 - 2	.362663 - 1	.413320
3.4	.839347 - 2	.307622 - 1	-.298787 - 2	-.199734	1	.423893 - 2	.407735 - 1	.413865
3.6	.840531 - 2	.348696 - 1	-.336353 - 2	-.201480	1	.470220 - 2	.455223 - 1	.414450
3.8	.840973 - 2	.392229 - 1	-.375715 - 2	-.203030	1	.518376 - 2	.505125 - 1	.415053
4.0	.840842 - 2	.438211 - 1	-.416815 - 2	-.204412	1	.568310 - 2	.557438 - 1	.415662
4.2	.840266 - 2	.486637 - 1	-.459595 - 2	-.205653	1	.619968 - 2	.612160 - 1	.416267
4.4	.839343 - 2	.537501 - 1	-.504001 - 2	-.206772	1	.673300 - 2	.669290 - 1	.416862
4.6	.838153 - 2	.590798 - 1	-.549976 - 2	-.207786	1	.728255 - 2	.728828 - 1	.417443
4.8	.836753 - 2	.646526 - 1	-.597469 - 2	-.208708	1	.784782 - 2	.790771 - 1	.418007
5.0	.835193 - 2	.704680 - 1	-.646424 - 2	-.209550	1	.842830 - 2	.855119 - 1	.418553
5.2	.833509 - 2	.765258 - 1	-.696790 - 2	-.210322	1	.902350 - 2	.921873 - 1	.419080
5.4	.831732 - 2	.828257 - 1	-.748514 - 2	-.211032	1	.963291 - 2	.991031 - 1	.419588
5.6	.829885 - 2	.893676 - 1	-.801545 - 2	-.211687	1	.102560 - 1	.106259	.420077
5.8	.827988 - 2	.961513 - 1	-.855831 - 2	-.212293	1	.108924 - 1	.113656	.420547
6.0	.826055 - 2	.103177	-.911321 - 2	-.212856	1	.115414 - 1	.121293	.420998
6.2	.824100 - 2	.110444	-.967964 - 2	-.213379	1	.122027 - 1	.129171	.421432

Z = -68, A = 166

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.853321 - 2	.155693 - 1	-.298026 - 2	.949334	.971889 - 2	.478562 - 1	.747702	1
.6	.618252 - 1	.722285 - 1	-.137864 - 1	.572568	.384979 - 1	.190079	.579016	1
.8	.143785	.165072	-.313918 - 1	.442434	.766007 - 1	.379526	.716551	1
1.0	.220497	.280163	-.530489 - 1	.373944	.115984	.577004	.969509	1
1.2	.280095	.407052	-.767067 - 1	.330802	.153570	.767455	.137431	2
1.4	.323008	.539448	-.101132	.300791	.188619	.947215	.206270	2
1.6	.352860	.673864	-.125646	.278567	.221220	.111666	.344205	2
1.8	.373217	.808466	-.149891	.261386	.251690	.127728	.750750	2
2.0	.386842	.942338	-.173691	.247677	.280364	.143066	.254350	4
2.2	.395724	.107506	1 -.196970	.236470	.307532	.157820	1 -.963277	2
2.4	.401256	.120650	1 -.219700	.227130	.333432	.172102	1 -.513336	2
2.6	.404410	.133662	1 -.241882	.219224	.358253	.186004	1 -.366888	2
2.8	.405868	.146551	1 -.263530	.212443	.382145	.199596	1 -.294362	2
3.0	.406108	.159324	1 -.284665	.206561	.405225	.212934	1 -.251091	2
3.2	.405473	.171994	1 -.305310	.201411	.427588	.226064	1 -.222355	2
3.4	.404209	.184570	1 -.325486	.196864	.449309	.239023	1 -.201890	2
3.6	.402494	.197064	1 -.345215	.192820	.470450	.251839	1 -.186578	2
3.8	.400458	.209485	1 -.364518	.189199	.491062	.264536	1 -.174690	2
4.0	.398196	.221842	1 -.383413	.185940	.511185	.277135	1 -.165196	2
4.2	.395781	.234144	1 -.401917	.182990	.530854	.289653	1 -.157438	2
4.4	.393266	.246399	1 -.420044	.180307	.550099	.302103	1 -.150980	2
4.6	.390689	.258613	1 -.437809	.177858	.568944	.314499	1 -.145521	2
4.8	.388081	.270793	1 -.455224	.175613	.587409	.326849	1 -.140845	2
5.0	.385464	.282945	1 -.472300	.173547	.605514	.339163	1 -.136795	2
5.2	.382855	.295074	1 -.489048	.171641	.623274	.351450	1 -.133254	2
5.4	.380266	.307185	1 -.505476	.169877	.640702	.363716	1 -.130130	2
5.6	.377707	.319283	1 -.521594	.168239	.657810	.375967	1 -.127354	2
5.8	.375184	.331372	1 -.537408	.166714	.674610	.388209	1 -.124870	2
6.0	.372702	.343456	1 -.552925	.165292	.691110	.400446	1 -.122635	2
6.2	.370264	.355538	1 -.568153	.163963	.707318	.412684	1 -.120613	2

Z = -68, A = 166

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$
.4	.334526 - 3	.316488 - 4	-.339769 - 5	-.242222		.157342 - 4	.137692 - 3	.985198
.6	.167130 - 2	.206611 - 3	-.221160 - 4	-.711362		.774973 - 4	.680060 - 3	.627464
.8	.330244 - 2	.619519 - 3	-.660645 - 4	-.101011	1	.189112 - 3	.166541 - 2	.520136
1.0	.468421 - 2	.131180 - 2	-.139271 - 3	-.122342	1	.343434 - 3	.303705 - 2	.473278
1.2	.572260 - 2	.229403 - 2	-.242357 - 3	-.138213	1	.533837 - 3	.474269 - 2	.449510
1.4	.647259 - 2	.356383 - 2	-.374518 - 3	-.150333	1	.755721 - 3	.674742 - 2	.436502
1.6	.700870 - 2	.511478 - 2	-.534510 - 3	-.159789	1	.100605 - 2	.902974 - 2	.429105
1.8	.739208 - 2	.694006 - 2	-.721047 - 3	-.167307	1	.128278 - 2	.115766 - 1	.424855
2.0	.766717 - 2	.903364 - 2	-.932937 - 3	-.173387	1	.158445 - 2	.143800 - 1	.422459
2.2	.786510 - 2	.113906 - 1	-.116911 - 2	-.178378	1	.190998 - 2	.174350 - 1	.421196
2.4	.800751 - 2	.140068 - 1	-.142860 - 2	-.182532	1	.225847 - 2	.207384 - 1	.420642
2.6	.810951 - 2	.168792 - 1	-.171054 - 2	-.186032	1	.262916 - 2	.242880 - 1	.420538
2.8	.818175 - 2	.200051 - 1	-.201414 - 2	-.189014	1	.302138 - 2	.280825 - 1	.420723
3.0	.823184 - 2	.233825 - 1	-.233864 - 2	-.191579	1	.343450 - 2	.321208 - 1	.421092
3.2	.826527 - 2	.270097 - 1	-.268336 - 2	-.193806	1	.386792 - 2	.364022 - 1	.421577
3.4	.828607 - 2	.308853 - 1	-.304764 - 2	-.195754	1	.432108 - 2	.409262 - 1	.422133
3.6	.829722 - 2	.350083 - 1	-.343084 - 2	-.197470	1	.479342 - 2	.456924 - 1	.422729
3.8	.830095 - 2	.393776 - 1	-.383235 - 2	-.198993	1	.528441 - 2	.507005 - 1	.423345
4.0	.829896 - 2	.439926 - 1	-.425159 - 2	-.200352	1	.579350 - 2	.559501 - 1	.423966
4.2	.829254 - 2	.488524 - 1	-.468796 - 2	-.201571	1	.632017 - 2	.614412 - 1	.424583
4.4	.828267 - 2	.539567 - 1	-.514091 - 2	-.202671	1	.686391 - 2	.671736 - 1	.425190
4.6	.827013 - 2	.593048 - 1	-.560989 - 2	-.203667	1	.742418 - 2	.731472 - 1	.425783
4.8	.825553 - 2	.648965 - 1	-.609433 - 2	-.204573	1	.800049 - 2	.793619 - 1	.426358
5.0	.823933 - 2	.707313 - 1	-.659371 - 2	-.205401	1	.859231 - 2	.858175 - 1	.426916
5.2	.822192 - 2	.768091 - 1	-.710748 - 2	-.206159	1	.919915 - 2	.925142 - 1	.427454
5.4	.820359 - 2	.831295 - 1	-.763512 - 2	-.206857	1	.982048 - 2	.994518 - 1	.427972
5.6	.818459 - 2	.896923 - 1	-.817611 - 2	-.207500	1	.104558 - 1	.106630	.428471
5.8	.816510 - 2	.964974 - 1	-.872992 - 2	-.208096	1	.111046 - 1	.114050	.428951
6.0	.814527 - 2	.103545	-.929604 - 2	-.208648	1	.117665 - 1	.121710	.429412
6.2	.812523 - 2	.110834	-.987395 - 2	-.209162	1	.124408 - 1	.129612	.429855

Z = -69, A = 167

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.798899 - 2	.151903 - 1	-.295516 - 2	.978909	.952572 - 2	.461877 - 1	.797454	1
.6	.598635 - 1	.714559 - 1	-.138619 - 1	.586232	.383771 - 1	.186579	.589738	1
.8	.141292	.164202	-.317383 - 1	.452442	.769354 - 1	.375329	.725977	1
1.0	.218298	.279392	-.537732 - 1	.382361	.116943	.572813	.984221	1
1.2	.278434	.406446	-.778568 - 1	.338319	.155179	.763512	.140495	2
1.4	.321835	.538990	-.102721	.307721	.190846	.943534	.213876	2
1.6	.352045	.673499	-.127667	.285081	.224016	.111317	.368026	2
1.8	.372632	.808128	-.152331	.267585	.255006	.127388	.885816	2
2.0	.386383	.941958	-.176535	.253631	.284157	.142727	-.563320	3
2.2	.395315	.107458	1 -.200200	.242226	.311766	.157472	1 -.789122	2
2.4	.400842	.120585	1 -.223300	.232724	.338077	.171740	1 -.457030	2
2.6	.403955	.133576	1 -.245838	.224681	.363285	.185620	1 -.336103	2
2.8	.405346	.146438	1 -.267830	.217783	.387543	.199185	1 -.273567	2
3.0	.405503	.159182	1 -.289298	.211801	.410973	.212493	1 -.235377	2
3.2	.404775	.171818	1 -.310264	.206564	.433671	.225589	1 -.209642	2
3.4	.403411	.184359	1 -.330755	.201940	.455717	.238511	1 -.191129	2
3.6	.401593	.196814	1 -.350791	.197828	.477174	.251287	1 -.177175	2
3.8	.399453	.209194	1 -.370394	.194147	.498092	.263943	1 -.166282	2
4.0	.397088	.221508	1 -.389584	.190832	.518516	.276499	1 -.157543	2
4.2	.394571	.233766	1 -.408377	.187833	.538482	.288972	1 -.150377	2
4.4	.391956	.245975	1 -.426791	.185106	.558018	.301377	1 -.144394	2
4.6	.389283	.258143	1 -.444839	.182616	.577150	.313726	1 -.139324	2
4.8	.386581	.270275	1 -.462535	.180334	.595902	.326029	1 -.134973	2
5.0	.383873	.282378	1 -.479890	.178234	.614290	.338295	1 -.131197	2
5.2	.381176	.294458	1 -.496914	.176297	.632331	.350534	1 -.127890	2
5.4	.378502	.306520	1 -.513618	.174503	.650041	.362751	1 -.124969	2
5.6	.375860	.318568	1 -.530010	.172838	.667429	.374954	1 -.122370	2
5.8	.373258	.330607	1 -.546098	.171289	.684509	.387147	1 -.120042	2
6.0	.370700	.342640	1 -.561890	.169843	.701289	.399337	1 -.117945	2
6.2	.368189	.354672	1 -.577391	.168492	.717778	.411527	1 -.116046	2

Z = -70, A = 172

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.313028 - 3	.308026 - 4	-.335932 - 5	-.219238		.154734 - 4	.133403 - 3	.101573	1
.6	.160951 - 2	.203603 - 3	-.221406 - 4	-.688326		.773203 - 4	.668431 - 3	.641886	
.8	.321842 - 2	.613612 - 3	-.664784 - 4	-.984663		.189818 - 3	.164674 - 2	.531116	
1.0	.459217 - 2	.130257 - 2	-.140505 - 3	-.119558	1	.345764 - 3	.301196 - 2	.482949	
1.2	.562858 - 2	.228105 - 2	-.244860 - 3	-.135223	1	.538382 - 3	.471133 - 2	.458563	
1.4	.637859 - 2	.354654 - 2	-.378720 - 3	-.147175	1	.762956 - 3	.670945 - 2	.445229	
1.6	.691514 - 2	.509248 - 2	-.540812 - 3	-.156492	1	.101637 - 2	.898446 - 2	.437650	
1.8	.729886 - 2	.691192 - 2	-.729828 - 3	-.163896	1	.129654 - 2	.115231 - 1	.433296	
2.0	.757406 - 2	.899871 - 2	-.944552 - 3	-.169880	1	.160198 - 2	.143173 - 1	.430841	
2.2	.777187 - 2	.113478 - 1	-.118390 - 2	-.174792	1	.193157 - 2	.173618 - 1	.429545	
2.4	.791398 - 2	.139551 - 1	-.144688 - 2	-.178880	1	.228441 - 2	.206536 - 1	.428975	
2.6	.801554 - 2	.168174 - 1	-.173264 - 2	-.182323	1	.265974 - 2	.241903 - 1	.428866	
2.8	.808723 - 2	.199320 - 1	-.204035 - 2	-.185256	1	.305687 - 2	.279705 - 1	.429052	
3.0	.813671 - 2	.232968 - 1	-.236927 - 2	-.187779	1	.347518 - 2	.319933 - 1	.429428	
3.2	.816949 - 2	.269102 - 1	-.271870 - 2	-.189968	1	.391406 - 2	.362578 - 1	.429922	
3.4	.818961 - 2	.307707 - 1	-.308799 - 2	-.191883	1	.437295 - 2	.407634 - 1	.430488	
3.6	.820008 - 2	.348773 - 1	-.347648 - 2	-.193571	1	.485129 - 2	.455099 - 1	.431096	
3.8	.820312 - 2	.392288 - 1	-.300357 - 2	-.195068	1	.534854 - 2	.504968 - 1	.431723	
4.0	.820045 - 2	.438245 - 1	-.430867 - 2	-.196404	1	.586417 - 2	.557240 - 1	.432357	
4.2	.819335 - 2	.486639 - 1	-.475119 - 2	-.197603	1	.639764 - 2	.611911 - 1	.432987	
4.4	.818282 - 2	.537461 - 1	-.521057 - 2	-.198683	1	.694845 - 2	.668981 - 1	.433606	
4.6	.816964 - 2	.590709 - 1	-.568625 - 2	-.199662	1	.751607 - 2	.728448 - 1	.434211	
4.8	.815441 - 2	.646378 - 1	-.617769 - 2	-.200553	1	.809999 - 2	.790312 - 1	.434798	
5.0	.813760 - 2	.704465 - 1	-.668434 - 2	-.201366	1	.869969 - 2	.854571 - 1	.435367	
5.2	.811960 - 2	.764966 - 1	-.720567 - 2	-.202112	1	.931468 - 2	.921225 - 1	.435916	
5.4	.810070 - 2	.827879 - 1	-.774116 - 2	-.202797	1	.994445 - 2	.990274 - 1	.436446	
5.6	.808113 - 2	.893202 - 1	-.829027 - 2	-.203430	1	.105885 - 1	.106172	.436955	
5.8	.806110 - 2	.960933 - 1	-.885249 - 2	-.204015	1	.112463 - 1	.113556	.437445	
6.0	.804075 - 2	.103107	-.942730 - 2	-.204558	1	.119174 - 1	.121179	.437915	
6.2	.802021 - 2	.110361	-.100142 - 1	-.205063	1	.126012 - 1	.129041	.438368	

Z = -70, A = 172

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.746627 - 2	.148076 - 1	-.292561 - 2	.100964 1	.932662 - 2	.445410 - 1	.856057 1	
.6	.578621 - 1	.706336 - 1	-.139161 - 1	.600160	.382164 - 1	.182997	.601439 1	
.8	.138599	.163207	-.320383 - 1	.462595	.771894 - 1	.370887	.736265 1	
1.0	.215743	.278407	-.544207 - 1	.390888	.117783	.568217	.100026 2	
1.2	.276300	.405529	-.788960 - 1	.345929	.156633	.759021	.143852 2	
1.4	.320107	.538123	-.104161	.314735	.192883	.939180	.222392 2	
1.6	.350618	.672631	-.129501	.291671	.226587	.110890 1	.396351 2	
1.8	.371393	.807194	-.154544	.273858	.258063	.126961 1	.108701 3	
2.0	.385243	.940895	-.179108	.259656	.287656	.142291 1	-.249991 3	
2.2	.394205	.107333 1	-.203114	.248051	.315670	.157022 1	-.665834 2	
2.4	.399715	.120435 1	-.226539	.238384	.342356	.171267 1	-.410932 2	
2.6	.402778	.133398 1	-.249387	.230204	.367913	.185121 1	-.309565 2	
2.8	.404096	.146228 1	-.271674	.223188	.392498	.198655 1	-.255167 2	
3.0	.404166	.158936 1	-.293424	.217105	.416238	.211928 1	-.221252 2	
3.2	.403343	.171533 1	-.314663	.211780	.439232	.224987 1	-.198095 2	
3.4	.401879	.184033 1	-.335415	.207079	.461561	.237869 1	-.181282 2	
3.6	.399959	.196445 1	-.355705	.202898	.483291	.250605 1	-.168523 2	
3.8	.397717	.208781 1	-.375555	.199156	.504474	.263218 1	-.158511 2	
4.0	.395251	.221050 1	-.394985	.195787	.525155	.275731 1	-.150446 2	
4.2	.392636	.233261 1	-.414013	.192738	.545371	.288161 1	-.143810 2	
4.4	.389924	.245423 1	-.432657	.189966	.565153	.300521 1	-.138255 2	
4.6	.387157	.257543 1	-.450931	.187436	.584527	.312825 1	-.133537 2	
4.8	.384364	.269627 1	-.468848	.185116	.603516	.325084 1	-.129479 2	
5.0	.381569	.281682 1	-.486421	.182982	.622139	.337307 1	-.125952 2	
5.2	.378788	.293714 1	-.503662	.181013	.640413	.349501 1	-.122858 2	
5.4	.376033	.305728 1	-.520579	.179190	.658353	.361675 1	-.120122 2	
5.6	.373314	.317729 1	-.537183	.177498	.675971	.373835 1	-.117685 2	
5.8	.370637	.329721 1	-.553481	.175924	.693279	.385987 1	-.115499 2	
6.0	.368006	.341708 1	-.569482	.174455	.710286	.398136 1	-.113529 2	
6.2	.365426	.353695 1	-.585191	.173083	.727002	.410286 1	-.111743 2	

Z = -70, A = 172

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.292616 - 3	.302012 - 4	-.334348 - 5	-.196398	.153258 - 4	.130203 - 3	.104749	1
.6	.154859 - 2	.202134 - 3	-.223132 - 4	-.665714	.776978 - 4	.661886 - 3	.656592	
.8	.313381 - 2	.612304 - 3	-.673408 - 4	-.959776	.191895 - 3	.164042 - 2	.542257	
1.0	.449811 - 2	.130309 - 2	-.142691 - 3	-.116840	1	.350601 - 3	.300941 - 2	.492743
1.2	.553144 - 2	.228514 - 2	-.249021 - 3	-.132308	1	.546837 - 3	.471521 - 2	.467722
1.4	.628067 - 2	.355580 - 2	-.385478 - 3	-.144096	1	.775726 - 3	.672167 - 2	.454054
1.6	.681710 - 2	.510831 - 2	-.550752 - 3	-.153279	1	.103405 - 2	.900643 - 2	.446289
1.8	.720076 - 2	.693554 - 2	-.743489 - 3	-.160573	1	.131965 - 2	.115559 - 1	.441828
2.0	.747577 - 2	.903120 - 2	-.962444 - 3	-.166466	1	.163100 - 2	.143618 - 1	.439312
2.2	.767325 - 2	.113901 - 1	-.120650 - 2	-.171302	1	.196694 - 2	.174188 - 1	.437983
2.4	.781490 - 2	.140081 - 1	-.147465 - 2	-.175325	1	.232656 - 2	.207236 - 1	.437396
2.6	.791590 - 2	.168818 - 1	-.176599 - 2	-.178713	1	.270908 - 2	.242741 - 1	.437282
2.8	.798697 - 2	.200085 - 1	-.207971 - 2	-.181599	1	.311378 - 2	.280686 - 1	.437470
3.0	.803578 - 2	.233862 - 1	-.241504 - 2	-.184080	1	.354004 - 2	.321061 - 1	.437852
3.2	.806786 - 2	.270130 - 1	-.277127 - 2	-.186234	1	.398725 - 2	.363859 - 1	.438355
3.4	.808729 - 2	.308875 - 1	-.314771 - 2	-.188118	1	.445482 - 2	.409073 - 1	.438932
3.6	.809705 - 2	.350086 - 1	-.354373 - 2	-.189777	1	.494220 - 2	.456700 - 1	.439551
3.8	.809940 - 2	.393752 - 1	-.395870 - 2	-.191250	1	.544883 - 2	.506735 - 1	.440191
4.0	.809604 - 2	.439866 - 1	-.439201 - 2	-.192563	1	.597417 - 2	.559178 - 1	.440838
4.2	.808827 - 2	.488420 - 1	-.484308 - 2	-.193742	1	.651768 - 2	.614024 - 1	.441480
4.4	.807709 - 2	.539408 - 1	-.531133 - 2	-.194804	1	.707885 - 2	.671273 - 1	.442112
4.6	.806327 - 2	.592827 - 1	-.579620 - 2	-.195767	1	.765714 - 2	.730924 - 1	.442729
4.8	.804743 - 2	.648671 - 1	-.629713 - 2	-.196643	1	.825204 - 2	.792975 - 1	.443329
5.0	.803003 - 2	.706937 - 1	-.681357 - 2	-.197442	1	.886303 - 2	.857426 - 1	.443909
5.2	.801145 - 2	.767621 - 1	-.734499 - 2	-.198175	1	.948959 - 2	.924276 - 1	.444470
5.4	.799199 - 2	.830723 - 1	-.789084 - 2	-.198849	1	.101312 - 1	.993524 - 1	.445010
5.6	.797189 - 2	.896238 - 1	-.845059 - 2	-.199471	1	.107874 - 1	.106517	.445530
5.8	.795134 - 2	.964166 - 1	-.902373 - 2	-.200046	1	.114576 - 1	.113922	.446029
6.0	.793049 - 2	.103450	-.960971 - 2	-.200579	1	.121414 - 1	.121566	.446510
6.2	.790946 - 2	.110725	-.102080 - 1	-.201076	1	.128382 - 1	.129450	.446972

Z = -71, A = 170

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.700768 - 2	.144631 - 1	-.290400 - 2	.104162 1	.914739 - 2	.430326 - 1	.925987 1
.6	.561675 - 1	.699611 - 1	-.140084 - 1	.614360	.381226 - 1	.179814	.614209 1
.8	.136541	.162543	-.324305 - 1	.472899	.775818 - 1	.367169	.747475 1
1.0	.214137	.277977	-.552306 - 1	.399525	.118845	.564681	.101774 2
1.2	.275362	.405409	-.801768 - 1	.353631	.158394	.755908	.147533 2
1.4	.319758	.538297	-.105928	.321832	.195310	.936498	.231964 2
1.6	.350696	.673042	-.131748	.298339	.229631	.110656 1	.430513 2
1.8	.371747	.807768	-.157256	.280205	.261672	.126751 1	.141782 3
2.0	.385750	.941556	-.182269	.265751	.291784	.142095 1	-.159239 3
2.2	.394778	.107400 1	-.206706	.253944	.320281	.156828 1	-.574104 2
2.4	.400291	.120498 1	-.230546	.244111	.347417	.171070 1	-.372556 2
2.6	.403312	.133450 1	-.253793	.235791	.373398	.184912 1	-.286491 2
2.8	.404560	.146264 1	-.276467	.228657	.398387	.198429 1	-.238797 2
3.0	.404541	.158952 1	-.298593	.222472	.422513	.211680 1	-.208509 2
3.2	.403616	.171525 1	-.320197	.217057	.445880	.224713 1	-.187578 2
3.4	.402043	.183997 1	-.341306	.212278	.468570	.237565 1	-.172253 2
3.6	.400010	.196379 1	-.361946	.208027	.490650	.250268 1	-.160550 2
3.8	.397654	.208681 1	-.382140	.204224	.512177	.262846 1	-.151323 2
4.0	.395075	.220915 1	-.401908	.200799	.533196	.275322 1	-.143861 2
4.2	.392347	.233089 1	-.421271	.197700	.553746	.287711 1	-.137702 2
4.4	.389525	.245211 1	-.440245	.194883	.573857	.300031 1	-.132534 2
4.6	.386651	.257290 1	-.458847	.192311	.593558	.312293 1	-.128134 2
4.8	.383754	.269332 1	-.477091	.189954	.612871	.324508 1	-.124343 2
5.0	.380859	.281344 1	-.494989	.187785	.631817	.336686 1	-.121042 2
5.2	.377980	.293331 1	-.512554	.185784	.650414	.348835 1	-.118143 2
5.4	.375131	.305300 1	-.529795	.183932	.668675	.360963 1	-.115576 2
5.6	.372322	.317254 1	-.546722	.182212	.686615	.373077 1	-.113287 2
5.8	.369557	.329199 1	-.563343	.180612	.704246	.385181 1	-.111232 2
6.0	.366843	.341139 1	-.579668	.179120	.721577	.397283 1	-.109378 2
6.2	.364182	.353077 1	-.595702	.177725	.738618	.409385 1	-.107696 2

Z = -71, A = 170

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.274039 - 3	.292338 - 4	-.328752 - 5	-.173678		.149829 - 4	.125452 - 3	.108057	1
.6	.149288 - 2	.198124 - 3	-.222174 - 4	-.643504		.770714 - 4	.647041 - 3	.671595	
.8	.305749 - 2	.603234 - 3	-.673999 - 4	-.935428		.191507 - 3	.161329 - 2	.553563	
1.0	.441480 - 2	.128703 - 2	-.143189 - 3	-.114185	1	.350969 - 3	.296854 - 2	.502662	
1.2	.544691 - 2	.226011 - 2	-.250259 - 3	-.129464	1	.548367 - 3	.465893 - 2	.476990	
1.4	.619671 - 2	.351969 - 2	-.387747 - 3	-.141094	1	.778734 - 3	.664802 - 2	.462980	
1.6	.673399 - 2	.505891 - 2	-.554320 - 3	-.150148	1	.103879 - 2	.891322 - 2	.455024	
1.8	.711827 - 2	.687052 - 2	-.748611 - 3	-.157336	1	.132635 - 2	.114408 - 1	.450453	
2.0	.739360 - 2	.894815 - 2	-.969358 - 3	-.163141	1	.163985 - 2	.142223 - 1	.447875	
2.2	.759110 - 2	.112865 - 1	-.121543 - 2	-.167902	1	.197814 - 2	.172524 - 1	.446512	
2.4	.773254 - 2	.138815 - 1	-.148583 - 2	-.171863	1	.234029 - 2	.205277 - 1	.445909	
2.6	.783315 - 2	.167296 - 1	-.177965 - 2	-.175198	1	.272552 - 2	.240460 - 1	.445789	
2.8	.790372 - 2	.198281 - 1	-.209605 - 2	-.178038	1	.313313 - 2	.278057 - 1	.445979	
3.0	.795195 - 2	.231750 - 1	-.243429 - 2	-.180480	1	.356247 - 2	.318057 - 1	.446366	
3.2	.798339 - 2	.267683 - 1	-.279365 - 2	-.182599	1	.401296 - 2	.360453 - 1	.446878	
3.4	.800214 - 2	.306066 - 1	-.317344 - 2	-.184452	1	.448400 - 2	.405238 - 1	.447466	
3.6	.801121 - 2	.346888 - 1	-.357304 - 2	-.186085	1	.497504 - 2	.452408 - 1	.448098	
3.8	.801287 - 2	.390138 - 1	-.399182 - 2	-.187533	1	.548555 - 2	.501959 - 1	.448750	
4.0	.800081 - 2	.435009 - 1	-.442910 - 2	-.188825	1	.601497 - 2	.553889 - 1	.449409	
4.2	.800036 - 2	.483892 - 1	-.488453 - 2	-.189984	1	.656279 - 2	.608195 - 1	.450065	
4.4	.798850 - 2	.534382 - 1	-.535731 - 2	-.191029	1	.712848 - 2	.664877 - 1	.450709	
4.6	.797402 - 2	.587274 - 1	-.584695 - 2	-.191976	1	.771152 - 2	.723931 - 1	.451339	
4.8	.795753 - 2	.642564 - 1	-.635291 - 2	-.192837	1	.831141 - 2	.785358 - 1	.451951	
5.0	.793950 - 2	.700247 - 1	-.687465 - 2	-.193624	1	.892762 - 2	.849156 - 1	.452543	
5.2	.792031 - 2	.760322 - 1	-.741163 - 2	-.194344	1	.955966 - 2	.915324 - 1	.453115	
5.4	.790026 - 2	.822785 - 1	-.796331 - 2	-.195007	1	.102070 - 1	.983863 - 1	.453667	
5.6	.787959 - 2	.887633 - 1	-.852918 - 2	-.195618	1	.108692 - 1	.105477	.454197	
5.8	.785848 - 2	.954866 - 1	-.910871 - 2	-.196184	1	.115457 - 1	.112805	.454707	
6.0	.783708 - 2	.102448	-.970139 - 2	-.196708	1	.122360 - 1	.120370	.455198	
6.2	.781553 - 2	.109648	-.103067 - 1	-.197196	1	.129396 - 1	.128172	.455669	

Z = -72, A = 178

p	F ₀	f ₁	g ₁	tanΔ ₁		f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.654328 - 2	.140915 - 1	-.287133 - 2	.107493	1	.894840 - 2	.414788 - 1	.101075	2
.6	.542411 - 1	.691273 - 1	-.140465 - 1	.628844		.379297 - 1	.176280	.628148	1
.8	.133821	.161497	-.326988 - 1	.483355		.777700 - 1	.362666	.759676	1
1.0	.211447	.276897	-.558296 - 1	.408275		.119594	.559918	.103678	2
1.2	.273014	.404350	-.811491 - 1	.361430		.159737	.751164	.151576	2
1.4	.317762	.537242	-.107281	.329014		.197218	.931822	.242788	2
1.6	.348964	.671938	-.133471	.305087		.232055	.110191	.472491	2
1.8	.370176	.806553	-.159333	.286627		.264562	.126281	.206278	3
2.0	.384258	.940168	-.184678	.271919		.295097	.141613	-.116054	3
2.2	.393301	.107239	1 -.209429	.259908		.323976	.156328	1 -.503166	2
2.4	.398784	.120309	1 -.233563	.249907		.351464	.170546	1 -.340094	2
2.6	.401745	.133228	1 -.257087	.241446		.377770	.184359	1 -.266226	2
2.8	.402912	.146007	1 -.280023	.234192		.403062	.197844	1 -.224124	2
3.0	.402801	.158656	1 -.302397	.227904		.427473	.211061	1 -.196940	2
3.2	.401776	.171189	1 -.324238	.222400		.451108	.224056	1 -.177947	2
3.4	.400099	.183619	1 -.345574	.217541		.474054	.236870	1 -.163932	2
3.6	.397962	.195957	1 -.366431	.213222		.496380	.249533	1 -.153167	2
3.8	.395501	.208214	1 -.386834	.209356		.518143	.262071	1 -.144641	2
4.0	.392820	.220402	1 -.406805	.205876		.539390	.274505	1 -.137721	2
4.2	.389992	.232530	1 -.426363	.202727		.560160	.286854	1 -.131993	2
4.4	.387074	.244607	1 -.445528	.199864		.580487	.299133	1 -.127174	2
4.6	.384106	.256639	1 -.464315	.197251		.600399	.311355	1 -.123063	2
4.8	.381119	.268636	1 -.482740	.194856		.619919	.323531	1 -.119515	2
5.0	.378136	.280602	1 -.500815	.192652		.639069	.335671	1 -.116421	2
5.2	.375174	.292545	1 -.518554	.190619		.657866	.347783	1 -.113700	2
5.4	.372246	.304470	1 -.535966	.188738		.676326	.359875	1 -.111287	2
5.6	.369359	.316382	1 -.553062	.186991		.694463	.371954	1 -.109133	2
5.8	.366521	.328285	1 -.569850	.185366		.712288	.384025	1 -.107199	2
6.0	.363736	.340185	1 -.586340	.183850		.729813	.396095	1 -.105451	2
6.2	.361008	.352084	1 -.602537	.182433		.747047	.408168	1 -.103865	2

Z = -72, A = 178

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.255970 - 3	.288118 - 4	-.328643 - 5	-.151056		.149100 - 4	.123071 - 3	.111506	1
.6	.143553 - 2	.197735 - 3	-.224908 - 4	-.621674		.778196 - 4	.644057 - 3	.686904	
.8	.297562 - 2	.605148 - 3	-.685804 - 4	-.911592		.194536 - 3	.161558 - 2	.565040	
1.0	.432236 - 2	.129440 - 2	-.146067 - 3	-.111591	1	.357596 - 3	.298175 - 2	.512710	
1.2	.535050 - 2	.227623 - 2	-.255643 - 3	-.126687	1	.559658 - 3	.468753 - 2	.486369	
1.4	.609888 - 2	.354771 - 2	-.396409 - 3	-.138166	1	.795560 - 3	.669555 - 2	.472008	
1.6	.663557 - 2	.510171 - 2	-.566980 - 3	-.147095	1	.106189 - 2	.898258 - 2	.463857	
1.8	.701945 - 2	.693080 - 2	-.765937 - 3	-.154180	1	.135637 - 2	.115345 - 1	.459174	
2.0	.729436 - 2	.902839 - 2	-.991973 - 3	-.159900	1	.167740 - 2	.143425 - 1	.456532	
2.2	.749135 - 2	.113891 - 1	-.124392 - 2	-.164590	1	.202377 - 2	.174013 - 1	.455134	
2.4	.763220 - 2	.140086 - 1	-.152074 - 2	-.168490	1	.239452 - 2	.207072 - 1	.454514	
2.6	.773216 - 2	.168833 - 1	-.182150 - 2	-.171774	1	.278884 - 2	.242580 - 1	.454388	
2.8	.780204 - 2	.200106 - 1	-.214534 - 2	-.174569	1	.320602 - 2	.280521 - 1	.454579	
3.0	.784954 - 2	.233881 - 1	-.249149 - 2	-.176973	1	.364539 - 2	.320883 - 1	.454973	
3.2	.788026 - 2	.270141 - 1	-.285921 - 2	-.179059	1	.410634 - 2	.363658 - 1	.455494	
3.4	.789828 - 2	.308870 - 1	-.324781 - 2	-.180883	1	.458828 - 2	.408840 - 1	.456093	
3.6	.790663 - 2	.350056 - 1	-.365662 - 2	-.182489	1	.509063 - 2	.456425 - 1	.456737	
3.8	.790758 - 2	.393688 - 1	-.408501 - 2	-.183914	1	.561284 - 2	.506408 - 1	.457402	
4.0	.790284 - 2	.439760 - 1	-.453236 - 2	-.185185	1	.615436 - 2	.558788 - 1	.458075	
4.2	.789371 - 2	.488262 - 1	-.499808 - 2	-.186326	1	.671463 - 2	.613561 - 1	.458743	
4.4	.788121 - 2	.539188 - 1	-.548158 - 2	-.187354	1	.729314 - 2	.670726 - 1	.459401	
4.6	.786611 - 2	.592535 - 1	-.598228 - 2	-.188285	1	.788935 - 2	.730281 - 1	.460043	
4.8	.784901 - 2	.648297 - 1	-.649963 - 2	-.189132	1	.850273 - 2	.792225 - 1	.460667	
5.0	.783040 - 2	.706470 - 1	-.703306 - 2	-.189906	1	.913277 - 2	.856558 - 1	.461272	
5.2	.781065 - 2	.767051 - 1	-.758203 - 2	-.190615	1	.977894 - 2	.923279 - 1	.461856	
5.4	.779005 - 2	.830039 - 1	-.814600 - 2	-.191266	1	.104407 - 1	.992387 - 1	.462418	
5.6	.776886 - 2	.895429 - 1	-.872443 - 2	-.191868	1	.111176 - 1	.106388	.462960	
5.8	.774724 - 2	.963221 - 1	-.931678 - 2	-.192424	1	.118091 - 1	.113776	.463480	
6.0	.772536 - 2	.103341	-.992253 - 2	-.192940	1	.125146 - 1	.121403	.463981	
6.2	.770334 - 2	.110600	-.105412 - 1	-.193420	1	.132338 - 1	.129269	.464462	

Z = -73, A = 179

	F_0	f_1	g_1	$\tan\Delta_1$		f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.613635 - 2	.137571 - 1	-.284659 - 2	.110968	1	.876917 - 2	.400567 - 1	.111548	2
.6	.526095 - 1	.684429 - 1	-.141232 - 1	.643622		.378052 - 1	.173141	.643376	1
.8	.131729	.160786	-.330609 - 1	.493969		.781003 - 1	.358885	.772944	1
1.0	.209705	.276378	-.565943 - 1	.417141		.120570	.556220	.105751	2
1.2	.271871	.404099	-.823680 - 1	.369324		.161396	.747810	.156025	2
1.4	.317160	.537242	-.108966	.336283		.199528	.928834	.255092	2
1.6	.348756	.672132	-.135615	.311914		.234965	.109921	.525185	2
1.8	.370220	.806868	-.161919	.293124		.268019	.126032	.386700	3
2.0	.384437	.940531	-.187687	.278158		.299055	.141373	1 - .908440	2
2.2	.393530	.107273	1 - .212841	.265941		.328396	.156089	1 - .446774	2
2.4	.399003	.120334	1 - .237360	.255769		.356312	.170300	1 - .312331	2
2.6	.401913	.133240	1 - .261253	.247166		.383020	.184101	1 - .248325	2
2.8	.403002	.146001	1 - .284543	.239791		.408691	.197568	1 - .210927	2
3.0	.402794	.158627	1 - .307259	.233399		.433462	.210762	1 - .186415	2
3.2	.401662	.171134	1 - .329430	.227804		.457443	.223731	1 - .169116	2
3.4	.399872	.183535	1 - .351087	.222866		.480723	.236516	1 - .156259	2
3.6	.397618	.195841	1 - .372256	.218476		.503372	.249147	1 - .146330	2
3.8	.395040	.208065	1 - .392965	.214547		.525450	.261652	1 - .138432	2
4.0	.392243	.220218	1 - .413235	.211011		.547006	.274052	1 - .132001	2
4.2	.389301	.232309	1 - .433089	.207811		.568079	.286365	1 - .126663	2
4.4	.386271	.244347	1 - .452544	.204903		.588705	.298606	1 - .122161	2
4.6	.383195	.256341	1 - .471619	.202247		.608911	.310790	1 - .118313	2
4.8	.380104	.268297	1 - .490328	.199814		.628724	.322928	1 - .114987	2
5.0	.377021	.280223	1 - .508686	.197575		.648164	.335029	1 - .112082	2
5.2	.373962	.292125	1 - .526706	.195510		.667251	.347102	1 - .109524	2
5.4	.370939	.304008	1 - .544397	.193598		.685999	.359155	1 - .107253	2
5.6	.367963	.315879	1 - .561772	.191824		.704424	.371196	1 - .105224	2
5.8	.365038	.327741	1 - .578839	.190173		.722538	.383229	1 - .103400	2
6.0	.362170	.339599	1 - .595607	.188634		.740351	.395260	1 - .101751	2
6.2	.359362	.351457	1 - .612084	.187194		.757875	.407296	1 - .100253	2

Z = -73, A = 179

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.239540 - 3	.280415 - 4	-.324653 - 5	-.128510		.146496 - 4	.119223 - 3	.115107	1
.6	.138310 - 2	.194891 - 3	-.225005 - 4	-.600206		.775857 - 4	.633086 - 3	.702534	
.8	.290176 - 2	.599522 - 3	-.689669 - 4	-.888245		.195137 - 3	.159771 - 2	.576693	
1.0	.424044 - 2	.128563 - 2	-.147271 - 3	-.109055	1	.359803 - 3	.295768 - 2	.522891	
1.2	.526649 - 2	.226395 - 2	-.258125 - 3	-.123975	1	.564086 - 3	.465751 - 2	.495862	
1.4	.601483 - 2	.353142 - 2	-.400606 - 3	-.135308	1	.802698 - 3	.665930 - 2	.481141	
1.6	.655192 - 2	.508078 - 2	-.573301 - 3	-.144117	1	.107215 - 2	.893948 - 2	.472790	
1.8	.693611 - 2	.690441 - 2	-.774761 - 3	-.151102	1	.137010 - 2	.114836 - 1	.467993	
2.0	.721110 - 2	.899565 - 2	-.100366 - 2	-.156739	1	.169491 - 2	.142829 - 1	.465285	
2.2	.740794 - 2	.113490 - 1	-.125880 - 2	-.161361	1	.204536 - 2	.173318 - 1	.463851	
2.4	.754846 - 2	.139600 - 1	-.153913 - 2	-.165203	1	.242047 - 2	.206267 - 1	.463213	
2.6	.764794 - 2	.168252 - 1	-.184372 - 2	-.168437	1	.281944 - 2	.241652 - 1	.463081	
2.8	.771725 - 2	.199417 - 1	-.217169 - 2	-.171190	1	.324153 - 2	.279456 - 1	.463274	
3.0	.776411 - 2	.233073 - 1	-.252226 - 2	-.173556	1	.368607 - 2	.319668 - 1	.463674	
3.2	.779415 - 2	.269200 - 1	-.289468 - 2	-.175609	1	.415246 - 2	.362281 - 1	.464204	
3.4	.781148 - 2	.307783 - 1	-.328827 - 2	-.177405	1	.464010 - 2	.407286 - 1	.464815	
3.6	.781912 - 2	.348811 - 1	-.370235 - 2	-.178986	1	.514841 - 2	.454680 - 1	.465471	
3.8	.781936 - 2	.392272 - 1	-.413629 - 2	-.180389	1	.567683 - 2	.504459 - 1	.466150	
4.0	.781392 - 2	.438158 - 1	-.458946 - 2	-.181640	1	.622482 - 2	.556620 - 1	.466835	
4.2	.780411 - 2	.486461 - 1	-.506128 - 2	-.182762	1	.679183 - 2	.611160 - 1	.467517	
4.4	.779093 - 2	.537175 - 1	-.555115 - 2	-.183774	1	.737733 - 2	.668078 - 1	.468188	
4.6	.777517 - 2	.590294 - 1	-.605850 - 2	-.184690	1	.798079 - 2	.727372 - 1	.468843	
4.8	.775744 - 2	.645815 - 1	-.658276 - 2	-.185524	1	.860169 - 2	.789040 - 1	.469480	
5.0	.773821 - 2	.703733 - 1	-.712338 - 2	-.186285	1	.923949 - 2	.853083 - 1	.470097	
5.2	.771785 - 2	.764045 - 1	-.767982 - 2	-.186982	1	.989370 - 2	.919498 - 1	.470692	
5.4	.769668 - 2	.826749 - 1	-.825152 - 2	-.187623	1	.105638 - 1	.988286 - 1	.471267	
5.6	.767492 - 2	.891841 - 1	-.883796 - 2	-.188215	1	.112492 - 1	.105945	.471819	
5.8	.765276 - 2	.959320 - 1	-.943860 - 2	-.188762	1	.119495 - 1	.113298	.472351	
6.0	.763036 - 2	.102918	-.100529 - 1	-.189270	1	.126642 - 1	.120888	.472861	
6.2	.760783 - 2	.110143	-.106804 - 1	-.189742	1	.133927 - 1	.128716	.473352	

Z = -74, A = 180

P	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.575748 - 2	.134331 - 1	-.282203 - 2	.114596 1	.859352 - 2	.386900 - 1	.124798 2
.6	.510515 - 1	.677804 - 1	-.142007 - 1	.658704	.376810 - 1	.170087	.660028 1
.8	.129732	.160114	-.334284 - 1	.504745	.784322 - 1	.355207	.787369 1
1.0	.208079	.275926	-.573718 - 1	.426124	.121555	.552648	.108010 2
1.2	.270864	.403942	-.836083 - 1	.377317	.163073	.744610	.160932 2
1.4	.316710	.537366	-.110681	.343639	.201866	.926030	.269180 2
1.6	.348713	.672477	-.137797	.318822	.237912	.109673 1	.593221 2
1.8	.370434	.807360	-.164550	.299697	.271523	.125806 1	.374628 4
2.0	.384790	.941095	-.190746	.284471	.303066	.141160 1	-.743258 2
2.2	.393933	.107329 1	-.216309	.272044	.332875	.155880 1	-.400881 2
2.4	.399396	.120385 1	-.241217	.261701	.361225	.170086 1	-.288317 2
2.6	.402252	.133279 1	-.265483	.252953	.388339	.183876 1	-.232397 2
2.8	.403260	.146023 1	-.289131	.245457	.414393	.197327 1	-.198991 2
3.0	.402951	.158629 1	-.312191	.238959	.439529	.210501 1	-.176796 2
3.2	.401707	.171112 1	-.334695	.233272	.463860	.223447 1	-.160987 2
3.4	.399800	.183486 1	-.356675	.228254	.487476	.236205 1	-.149158 2
3.6	.397425	.195763 1	-.378160	.223793	.510452	.248807 1	-.139977 2
3.8	.394727	.207955 1	-.399176	.219801	.532848	.261281 1	-.132645 2
4.0	.391810	.220074 1	-.419748	.216208	.554714	.273648 1	-.126655 2
4.2	.388750	.232130 1	-.439898	.212957	.576093	.285927 1	-.121671 2
4.4	.385606	.244132 1	-.459646	.210002	.597020	.298134 1	-.117458 2
4.6	.382419	.256089 1	-.479010	.207304	.617524	.310282 1	-.113850 2
4.8	.379220	.268007 1	-.498006	.204832	.637632	.322384 1	-.110726 2
5.0	.376033	.279895 1	-.516648	.202558	.657365	.334449 1	-.107995 2
5.2	.372874	.291758 1	-.534950	.200460	.676743	.346486 1	-.105586 2
5.4	.369755	.303602 1	-.552923	.198518	.695783	.358503 1	-.103446 2
5.6	.366686	.315433 1	-.570578	.196716	.714498	.370507 1	-.101532 2
5.8	.363673	.327256 1	-.587926	.195039	.732903	.382504 1	-.998097 1
6.0	.360720	.339075 1	-.604974	.193475	.751009	.394501 1	-.982515 1
6.2	.357829	.350895 1	-.621731	.192013	.768825	.406502 1	-.968350 1

Z = -74, A = 180

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$		f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.224174 - 3	.272928 - 4	-.320656 - 5	-.106016		.143910 - 4	.115495 - 3	.118871	1
.6	.133276 - 2	.192102 - 3	-.225072 - 4	-.579080		.773418 - 4	.622331 - 3	.718496	
.8	.283022 - 2	.594002 - 3	-.693474 - 4	-.865367		.195716 - 3	.158013 - 2	.588526	
1.0	.416086 - 2	.127704 - 2	-.148469 - 3	-.106575	1	.361983 - 3	.293404 - 2	.533207	
1.2	.518484 - 2	.225195 - 2	-.260601 - 3	-.121326	1	.568488 - 3	.462805 - 2	.505472	
1.4	.593312 - 2	.351555 - 2	-.404801 - 3	-.132517	1	.809814 - 3	.662380 - 2	.490383	
1.6	.647062 - 2	.506040 - 2	-.579623 - 3	-.141210	1	.108238 - 2	.889731 - 2	.481826	
1.8	.685513 - 2	.687876 - 2	-.783590 - 3	-.148099	1	.138380 - 2	.114340 - 1	.476911	
2.0	.713019 - 2	.896384 - 2	-.101535 - 2	-.153657	1	.171240 - 2	.142248 - 1	.474136	
2.2	.732689 - 2	.113100 - 1	-.127369 - 2	-.158212	1	.206694 - 2	.172640 - 1	.472665	
2.4	.746706 - 2	.139129 - 1	-.155754 - 2	-.161997	1	.244642 - 2	.205481 - 1	.472009	
2.6	.756607 - 2	.167687 - 1	-.186594 - 2	-.165183	1	.285002 - 2	.240745 - 1	.471871	
2.8	.763479 - 2	.198747 - 1	-.219804 - 2	-.167895	1	.327701 - 2	.278416 - 1	.472065	
3.0	.768102 - 2	.232286 - 1	-.255302 - 2	-.170225	1	.372673 - 2	.318482 - 1	.472471	
3.2	.771038 - 2	.268283 - 1	-.293014 - 2	-.172247	1	.419855 - 2	.360935 - 1	.473011	
3.4	.772699 - 2	.306724 - 1	-.332871 - 2	-.174015	1	.469187 - 2	.405767 - 1	.473633	
3.6	.773392 - 2	.347597 - 1	-.374805 - 2	-.175572	1	.520612 - 2	.452975 - 1	.474302	
3.8	.773345 - 2	.390889 - 1	-.418751 - 2	-.176953	1	.574073 - 2	.502553 - 1	.474994	
4.0	.772731 - 2	.436593 - 1	-.464650 - 2	-.178184	1	.629517 - 2	.554499 - 1	.475693	
4.2	.771680 - 2	.484701 - 1	-.512439 - 2	-.179289	1	.686889 - 2	.608811 - 1	.476388	
4.4	.770295 - 2	.535206 - 1	-.562060 - 2	-.180285	1	.746135 - 2	.665485 - 1	.477073	
4.6	.768653 - 2	.588103 - 1	-.613456 - 2	-.181187	1	.807203 - 2	.724522 - 1	.477741	
4.8	.766815 - 2	.643387 - 1	-.666571 - 2	-.182007	1	.870039 - 2	.785919 - 1	.478391	
5.0	.764830 - 2	.701054 - 1	-.721349 - 2	-.182756	1	.934593 - 2	.849676 - 1	.479020	
5.2	.762735 - 2	.761101 - 1	-.777735 - 2	-.183443	1	.100081 - 1	.915791 - 1	.479628	
5.4	.760559 - 2	.823525 - 1	-.835675 - 2	-.184074	1	.106865 - 1	.984264 - 1	.480214	
5.6	.758327 - 2	.888324 - 1	-.895115 - 2	-.184656	1	.113804 - 1	.105510	.480778	
5.8	.756056 - 2	.955495 - 1	-.956002 - 2	-.185194	1	.120895 - 1	.112828	.481320	
6.0	.753763 - 2	.102504	-.101828 - 1	-.185694	1	.128132 - 1	.120383	.481842	
6.2	.751459 - 2	.109695	-.108191 - 1	-.186158	1	.135509 - 1	.128173	.482343	

Z = -75, A = 183

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.539821 - 2	.131117 - 1	-.279546 - 2	.118390 1	.841689 - 2	.373569 - 1	.142080 2
.6	.495045 - 1	.671017 - 1	-.142677 - 1	.674103	.375371 - 1	.167029	.678263 1
.8	.127675	.159396	-.337746 - 1	.515687	.787229 - 1	.351451	.803052 1
1.0	.206319	.275390	-.581158 - 1	.435228	.122482	.548922	.110472 2
1.2	.269670	.403663	-.848014 - 1	.385410	.164676	.741193	.166360 2
1.4	.316037	.537329	-.112334	.351084	.204117	.922956	.285446 2
1.6	.348419	.672623	-.139900	.325812	.240759	.109394 1	.684321 2
1.8	.370379	.807617	-.167084	.306347	.274912	.125545 1	-.474072 3
2.0	.384860	.941388	-.193691	.290857	.306949	.140908 1	-.626725 2
2.2	.394044	.107356 1	-.219642	.278218	.337210	.155629 1	-.362825 2
2.4	.399487	.120402 1	-.244919	.267701	.365979	.169829 1	-.267352 2
2.6	.402284	.133282 1	-.269536	.258809	.393483	.183607 1	-.218139 2
2.8	.403205	.146007 1	-.293519	.251188	.419904	.197041 1	-.188150 2
3.0	.402793	.158591 1	-.316901	.244584	.445388	.210194 1	-.167975 2
3.2	.401435	.171048 1	-.339716	.238805	.470051	.223116 1	-.153481 2
3.4	.399408	.183393 1	-.361995	.233706	.493986	.235847 1	-.142569 2
3.6	.396911	.195639 1	-.383771	.229173	.517270	.248421 1	-.134059 2
3.8	.394091	.207799 1	-.405070	.225117	.539966	.260864 1	-.127238 2
4.0	.391054	.219884 1	-.425920	.221466	.562125	.273200 1	-.121649 2
4.2	.387877	.231905 1	-.446341	.218164	.583790	.285447 1	-.116986 2
4.4	.384618	.243872 1	-.466356	.215162	.604998	.297621 1	-.113036 2
4.6	.381320	.255792 1	-.485983	.212422	.625781	.309737 1	-.109649 2
4.8	.378015	.267674 1	-.505238	.209911	.646164	.321806 1	-.106711 2
5.0	.374724	.279524 1	-.524138	.207601	.666170	.333838 1	-.104139 2
5.2	.371466	.291351 1	-.542695	.205470	.685820	.345843 1	-.101868 2
5.4	.368253	.303158 1	-.560923	.203498	.705130	.357828 1	-.998479 1
5.6	.365093	.314953 1	-.578831	.201668	.724116	.369801 1	-.980396 1
5.8	.361992	.326740 1	-.596431	.199965	.742792	.381768 1	-.964112 1
6.0	.358955	.338524 1	-.613731	.198377	.761168	.393736 1	-.949370 1
6.2	.355983	.350309 1	-.630741	.196892	.779256	.405708 1	-.935959 1

Z = -75, A = 183

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.209686 - 3	.266553 - 4	-.317660 - 5	-.835539 - 1	.141826 - 4	.112266 - 3	.122813	1
.6	.128371 - 2	.190013 - 3	-.225824 - 4	-.558278	.773499 - 4	.613874 - 3	.734805	
.8	.275937 - 2	.590591 - 3	-.699422 - 4	-.842934	.196939 - 3	.156820 - 2	.600546	
1.0	.408128 - 2	.127295 - 2	-.150129 - 3	-.104148	.365365 - 3	.292075 - 2	.543663	
1.2	.510260 - 2	.224788 - 2	-.263893 - 3	-.118736	.574788 - 3	.461488 - 2	.515203	
1.4	.585043 - 2	.351203 - 2	-.410264 - 3	-.129791	.819638 - 3	.661156 - 2	.499734	
1.6	.638804 - 2	.505781 - 2	-.587757 - 3	-.138372	.109623 - 2	.888640 - 2	.490967	
1.8	.677265 - 2	.687728 - 2	-.794859 - 3	-.145168	.140212 - 2	.114245 - 1	.485932	
2.0	.704764 - 2	.896352 - 2	-.103018 - 2	-.150649	.173558 - 2	.142166 - 1	.483088	
2.2	.724407 - 2	.113108 - 1	-.129249 - 2	-.155139	.209535 - 2	.172569 - 1	.481579	
2.4	.738383 - 2	.139146 - 1	-.158070 - 2	-.158870	.248041 - 2	.205417 - 1	.480905	
2.6	.748230 - 2	.167712 - 1	-.189383 - 2	-.162009	.288992 - 2	.240685 - 1	.480760	
2.8	.755040 - 2	.198776 - 1	-.223099 - 2	-.164681	.332315 - 2	.278356 - 1	.480955	
3.0	.759595 - 2	.232316 - 1	-.259139 - 2	-.166977	.377941 - 2	.318417 - 1	.481368	
3.2	.762460 - 2	.268311 - 1	-.297426 - 2	-.168968	.425808 - 2	.360860 - 1	.481917	
3.4	.764050 - 2	.306746 - 1	-.337889 - 2	-.170709	.475856 - 2	.405678 - 1	.482551	
3.6	.764671 - 2	.347607 - 1	-.380461 - 2	-.172243	.528026 - 2	.452865 - 1	.483232	
3.8	.764552 - 2	.390885 - 1	-.425077 - 2	-.173607	.582763 - 2	.502418 - 1	.483938	
4.0	.763867 - 2	.436569 - 1	-.471675 - 2	-.174815	.638511 - 2	.554334 - 1	.484651	
4.2	.762748 - 2	.484651 - 1	-.520193 - 2	-.175903	.696714 - 2	.608610 - 1	.485360	
4.4	.761295 - 2	.535126 - 1	-.570572 - 2	-.176883	.756821 - 2	.665243 - 1	.486058	
4.6	.759588 - 2	.587988 - 1	-.622755 - 2	-.177771	.818777 - 2	.724233 - 1	.486740	
4.8	.757687 - 2	.643232 - 1	-.676685 - 2	-.178579	.882529 - 2	.785577 - 1	.487403	
5.0	.755640 - 2	.700853 - 1	-.732306 - 2	-.179316	.948026 - 2	.849275 - 1	.488045	
5.2	.753486 - 2	.760849 - 1	-.789562 - 2	-.179992	.101522 - 1	.915325 - 1	.488665	
5.4	.751253 - 2	.823216 - 1	-.848400 - 2	-.180613	.108405 - 1	.983728 - 1	.489263	
5.6	.748965 - 2	.887953 - 1	-.908765 - 2	-.181186	.115446 - 1	.105448	.489838	
5.8	.746641 - 2	.955055 - 1	-.970603 - 2	-.181717	.122642 - 1	.112759	.490392	
6.0	.744297 - 2	.102452	-.103386 - 1	-.182208	.129987 - 1	.120304	.490924	
6.2	.741943 - 2	.109635	-.109849 - 1	-.182666	.137475 - 1	.128085	.491435	

Z = -76, A = 186

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.506367 - 2	.128001 - 1	-.276911 - 2	.122364 1	.824387 - 2	.360756 - 1	.165536 2
.6	.480263 - 1	.664436 - 1	-.143356 - 1	.689830	.373936 - 1	.164053	.698269 1
.8	.125708	.158715	-.341258 - 1	.526799	.790149 - 1	.347792	.820108 1
1.0	.204668	.274916	-.588721 - 1	.444454	.123416	.545316	.113160 2
1.2	.268603	.403474	-.860153 - 1	.393604	.166297	.737922	.172382 2
1.4	.315506	.537407	-.114016	.358619	.206395	.920056	.304402 2
1.6	.348279	.672911	-.142040	.332884	.243642	.109135 1	.812414 2
1.8	.370404	.808039	-.169662	.313075	.278345	.125307 1	-.220140 3
2.0	.385092	.941871	-.196685	.297318	.310884	.140682 1	-.540175 2
2.2	.394316	.107403 1	-.223030	.284465	.341604	.155406 1	-.330782 2
2.4	.399738	.120442 1	-.248681	.273772	.370797	.169603 1	-.248903 2
2.6	.402473	.133310 1	-.273653	.264732	.398696	.183371 1	-.205309 2
2.8	.403303	.146018 1	-.297976	.256986	.425489	.196790 1	-.178264 2
3.0	.402784	.158581 1	-.321683	.250275	.451325	.209925 1	-.159861 2
3.2	.401308	.171014 1	-.344810	.244403	.476324	.222824 1	-.146535 2
3.4	.399157	.183333 1	-.367393	.239222	.500582	.235531 1	-.136443 2
3.6	.396535	.195550 1	-.389462	.234616	.524179	.248079 1	-.128538 2
3.8	.393589	.207680 1	-.411047	.230495	.547178	.260494 1	-.122179 2
4.0	.390428	.219734 1	-.432176	.226787	.569633	.272801 1	-.116953 2
4.2	.387129	.231722 1	-.452872	.223433	.591589	.285019 1	-.112584 2
4.4	.383753	.243655 1	-.473156	.220383	.613083	.297163 1	-.108876 2
4.6	.380341	.255541 1	-.493049	.217600	.634147	.309249 1	-.105690 2
4.8	.376926	.267388 1	-.512567	.215050	.654810	.321287 1	-.102923 2
5.0	.373530	.279204 1	-.531727	.212704	.675094	.333290 1	-.100497 2
5.2	.370170	.290996 1	-.550543	.210540	.695019	.345265 1	-.983528 1
5.4	.366859	.302770 1	-.569027	.208538	.714605	.357222 1	-.964440 1
5.6	.363606	.314531 1	-.587192	.206679	.733866	.369167 1	-.947337 1
5.8	.360415	.326284 1	-.605048	.204950	.752816	.381107 1	-.931922 1
6.0	.357292	.338036 1	-.622604	.203337	.771469	.393049 1	-.917957 1
6.2	.354238	.349790 1	-.639870	.201830	.789833	.404997 1	-.905244 1

Z = -76, A = 186

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.196139 - 3	.260312 - 4	-.314618 - 5	-.611006 - 1	.139736 - 4	.109118 - 3	.126945	1
.6	.123661 - 2	.187944 - 3	-.226535 - 4	-.537783	.773415 - 4	.605509 - 3	.751474	
.8	.269072 - 2	.587201 - 3	-.705292 - 4	-.820929	.198131 - 3	.155632 - 2	.612760	
1.0	.400390 - 2	.126888 - 2	-.151782 - 3	-.101771	.368711 - 3	.290748 - 2	.554262	
1.2	.502258 - 2	.224382 - 2	-.267180 - 3	-.116203	.581052 - 3	.460171 - 2	.525056	
1.4	.576995 - 2	.350854 - 2	-.415727 - 3	-.127127	.829431 - 3	.659932 - 2	.509198	
1.6	.630767 - 2	.505524 - 2	-.595898 - 3	-.135599	.111006 - 2	.887546 - 2	.500215	
1.8	.669238 - 2	.687582 - 2	-.806140 - 3	-.142306	.142042 - 2	.114149 - 1	.495057	
2.0	.696730 - 2	.896322 - 2	-.104503 - 2	-.147712	.175875 - 2	.142083 - 1	.492142	
2.2	.716346 - 2	.113116 - 1	-.131132 - 2	-.152140	.212375 - 2	.172496 - 1	.490595	
2.4	.730279 - 2	.139163 - 1	-.160389 - 2	-.155818	.251439 - 2	.205352 - 1	.489901	
2.6	.740071 - 2	.167736 - 1	-.192175 - 2	-.158912	.292982 - 2	.240623 - 1	.489750	
2.8	.746819 - 2	.198804 - 1	-.226399 - 2	-.161545	.336928 - 2	.278292 - 1	.489946	
3.0	.751306 - 2	.232344 - 1	-.262981 - 2	-.163808	.383209 - 2	.318348 - 1	.490365	
3.2	.754100 - 2	.268336 - 1	-.301843 - 2	-.165770	.431761 - 2	.360780 - 1	.490924	
3.4	.755618 - 2	.306764 - 1	-.342913 - 2	-.167485	.482524 - 2	.405582 - 1	.491569	
3.6	.756166 - 2	.347614 - 1	-.386123 - 2	-.168995	.535439 - 2	.452749 - 1	.492264	
3.8	.755975 - 2	.390875 - 1	-.431407 - 2	-.170335	.590449 - 2	.502276 - 1	.492983	
4.0	.755219 - 2	.436538 - 1	-.478703 - 2	-.171529	.647499 - 2	.554159 - 1	.493710	
4.2	.754030 - 2	.484594 - 1	-.527949 - 2	-.172600	.706533 - 2	.608397 - 1	.494433	
4.4	.752510 - 2	.535038 - 1	-.579086 - 2	-.173566	.767498 - 2	.664988 - 1	.495145	
4.6	.750737 - 2	.587863 - 1	-.632054 - 2	-.174441	.830340 - 2	.723928 - 1	.495841	
4.8	.748773 - 2	.643065 - 1	-.686798 - 2	-.175236	.895006 - 2	.785217 - 1	.496518	
5.0	.746665 - 2	.700639 - 1	-.743260 - 2	-.175962	.961444 - 2	.848854 - 1	.497173	
5.2	.744451 - 2	.760581 - 1	-.801385 - 2	-.176627	.102960 - 1	.914838 - 1	.497805	
5.4	.742160 - 2	.822890 - 1	-.861119 - 2	-.177239	.109942 - 1	.983168 - 1	.498415	
5.6	.739817 - 2	.887561 - 1	-.922406 - 2	-.177803	.117086 - 1	.105384	.499002	
5.8	.737440 - 2	.954593 - 1	-.985194 - 2	-.178325	.124387 - 1	.112686	.499567	
6.0	.735044 - 2	.102398	-.104943 - 1	-.178809	.131838 - 1	.120223	.500110	
6.2	.732640 - 2	.109573	-.111506 - 1	-.179259	.139436 - 1	.127994	.500632	

Z = -77, A = 191

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.474634 - 2	.124909 - 1	-.274087 - 2	.126532 1	.807005 - 2	.348255 - 1	.199155 2
.6	.465574 - 1	.657683 - 1	-.143930 - 1	.705901	.372304 - 1	.161073	.720264 1
.8	.123679	.157984	-.344552 - 1	.538087	.792647 - 1	.344051	.838669 1
1.0	.202879	.274353	-.595937 - 1	.453806	.124289	.541550	.116096 2
1.2	.267340	.403154	-.871802 - 1	.401902	.167841	.734423	.179089 2
1.4	.314737	.537314	-.115634	.366246	.208582	.916873	.326745 2
1.6	.347873	.672985	-.144098	.340041	.246419	.108842 1	.100553 3
1.8	.370302	.808209	-.172140	.319883	.281659	.125032 1	-.142194 3
2.0	.385022	.942064	-.199560	.303854	.314684	.140416 1	-.473395 2
2.2	.394275	.107418 1	-.226279	.290784	.345849	.155141 1	-.303444 2
2.4	.399667	.120447 1	-.252284	.279913	.375451	.169331 1	-.232550 2
2.6	.402333	.133299 1	-.277590	.270724	.403730	.183088 1	-.193709 2
2.8	.403069	.145988 1	-.302230	.262852	.430879	.196492 1	-.169217 2
3.0	.402438	.158529 1	-.326241	.256032	.457051	.209607 1	-.152374 2
3.2	.400841	.170936 1	-.349659	.250066	.482370	.222485 1	-.140088 2
3.4	.398565	.183227 1	-.372521	.244802	.506935	.235167 1	-.130733 2
3.6	.395817	.195415 1	-.394861	.240123	.530828	.247689 1	-.123374 2
3.8	.392745	.207513 1	-.416710	.235938	.554113	.260078 1	-.117435 2
4.0	.389459	.219535 1	-.438094	.232171	.576848	.272358 1	-.112542 2
4.2	.386041	.231491 1	-.459041	.228764	.599078	.284548 1	-.108440 2
4.4	.382547	.243390 1	-.479571	.225667	.620841	.296665 1	-.104953 2
4.6	.379023	.255243 1	-.499705	.222841	.642171	.308724 1	-.101953 2
4.8	.375498	.267058 1	-.519462	.220251	.663096	.320736 1	-.993426 1
5.0	.371998	.278842 1	-.538858	.217869	.683640	.332713 1	-.970518 1
5.2	.368538	.290602 1	-.557908	.215672	.703825	.344664 1	-.950250 1
5.4	.365131	.302344 1	-.576625	.213638	.723669	.356597 1	-.932188 1
5.6	.361786	.314075 1	-.595022	.211751	.743188	.368521 1	-.915991 1
5.8	.358507	.325799 1	-.613109	.209995	.762397	.380440 1	-.901381 1
6.0	.355300	.337522 1	-.630896	.208358	.781308	.392363 1	-.888137 1
6.2	.352165	.349249 1	-.648393	.206828	.799933	.404294 1	-.876073 1

Z = -77, A = 191

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.183370 - 3	.255030 - 4	-.312476 - 5	-.386340 - 1	.138089 - 4	.106395 - 3	.131286	1
.6	.119069 - 2	.186500 - 3	-.227890 - 4	-.517578	.775673 - 4	.599178 - 3	.768520	
.8	.262270 - 2	.585731 - 3	-.713227 - 4	-.799331	.199935 - 3	.154953 - 2	.625172	
1.0	.392646 - 2	.126896 - 2	-.153886 - 3	-.994433	.373216 - 3	.290369 - 2	.565008	
1.2	.494192 - 2	.224709 - 2	-.271268 - 3	-.113725	1 .589161 - 3	.460352 - 2	.535035	
1.4	.568841 - 2	.351651 - 2	-.422439 - 3	-.124522	1 .841869 - 3	.660857 - 2	.518778	
1.6	.622594 - 2	.506919 - 2	-.605826 - 3	-.132889	1 .112743 - 2	.889345 - 2	.509573	
1.8	.661053 - 2	.689685 - 2	-.819833 - 3	-.139509	1 .144325 - 2	.114426 - 1	.504289	
2.0	.688521 - 2	.899224 - 2	-.106300 - 2	-.144844	1 .178751 - 2	.142464 - 1	.501302	
2.2	.708099 - 2	.113494 - 1	-.133403 - 2	-.149211	1 .215887 - 2	.172987 - 1	.499714	
2.4	.721981 - 2	.139636 - 1	-.163180 - 2	-.152838	1 .255629 - 2	.205957 - 1	.499001	
2.6	.731713 - 2	.168309 - 1	-.195527 - 2	-.155889	1 .297889 - 2	.241348 - 1	.498842	
2.8	.738394 - 2	.199484 - 1	-.230355 - 2	-.158484	1 .342590 - 2	.279140 - 1	.499040	
3.0	.742810 - 2	.233134 - 1	-.267578 - 2	-.160714	1 .389662 - 2	.319321 - 1	.499465	
3.2	.745532 - 2	.269241 - 1	-.307119 - 2	-.162648	1 .439041 - 2	.361883 - 1	.500034	
3.4	.746975 - 2	.307788 - 1	-.348904 - 2	-.164338	1 .490665 - 2	.406816 - 1	.500692	
3.6	.747450 - 2	.348761 - 1	-.392864 - 2	-.165826	1 .544475 - 2	.454117 - 1	.501399	
3.8	.747187 - 2	.392148 - 1	-.438933 - 2	-.167146	1 .600413 - 2	.503781 - 1	.502132	
4.0	.746360 - 2	.437940 - 1	-.487046 - 2	-.168323	1 .658422 - 2	.555804 - 1	.502874	
4.2	.745102 - 2	.486129 - 1	-.537142 - 2	-.169378	1 .718447 - 2	.610184 - 1	.503611	
4.4	.743515 - 2	.536708 - 1	-.589159 - 2	-.170329	1 .780434 - 2	.666917 - 1	.504338	
4.6	.741677 - 2	.589671 - 1	-.643039 - 2	-.171191	1 .844328 - 2	.726004 - 1	.505047	
4.8	.739650 - 2	.645013 - 1	-.698723 - 2	-.171974	1 .910075 - 2	.787441 - 1	.505738	
5.0	.737481 - 2	.702730 - 1	-.756156 - 2	-.172689	1 .977623 - 2	.851228 - 1	.506406	
5.2	.735209 - 2	.762818 - 1	-.815279 - 2	-.173344	1 .104692 - 1	.917364 - 1	.507051	
5.4	.732863 - 2	.825274 - 1	-.876038 - 2	-.173947	1 .111791 - 1	.985847 - 1	.507674	
5.6	.730465 - 2	.890095 - 1	-.938378 - 2	-.174503	1 .119054 - 1	.105668	.508273	
5.8	.728036 - 2	.957279 - 1	-.100225 - 1	-.175017	1 .126476 - 1	.112986	.508849	
6.0	.725589 - 2	.102682	-.106759 - 1	-.175493	1 .134052 - 1	.120538	.509403	
6.2	.723137 - 2	.109873	-.113434 - 1	-.175937	1 .141777 - 1	.128325	.509936	

Z = -78, A = 194

p	F ₀	f ₁	g ₁	tanΔ ₁		f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.445637 - 2	.121981 - 1	-.271507 - 2	.130912	1	.790432 - 2	.336423 - 1	.251316	2
.6	.452089 - 1	.651503 - 1	-.144627 - 1	.722327		.370889 - 1	.158256	.744508	1
.8	.121886	.157380	-.348175 - 1	.549555		.795608 - 1	.340586	.858887	1
1.0	.201441	.274003	-.603763 - 1	.463286		.125242	.538180	.119311	2
1.2	.266525	.403143	-.884380 - 1	.410305		.169499	.731442	.186589	2
1.4	.314492	.537626	-.117377	.373965		.210918	.914320	.353429	2
1.6	.348040	.673559	-.146315	.347283		.249380	.108624	1 .132949	3
1.8	.370727	.808967	-.174810	.326770		.285188	.124840	1 -.104395	3
2.0	.385579	.942929	-.202659	.310466		.318730	.140241	1 -.420350	2
2.2	.394872	.107508	1 -.229783	.297176		.350368	.154975	1 -.279866	2
2.4	.400240	.120534	1 -.256172	.286125		.380407	.169166	1 -.217966	2
2.6	.402836	.133379	1 -.281843	.276785		.409093	.182918	1 -.183178	2
2.8	.403474	.146055	1 -.306830	.268786		.436624	.196312	1 -.160912	2
3.0	.402727	.158579	1 -.331174	.261856		.463159	.209413	1 -.145451	2
3.2	.401004	.170967	1 -.354912	.255794		.488824	.222275	1 -.134095	2
3.4	.398596	.183235	1 -.378084	.250446		.513721	.234938	1 -.125404	2
3.6	.395712	.195398	1 -.400725	.245694		.537935	.247439	1 -.118540	2
3.8	.392507	.207471	1 -.422866	.241442		.561533	.259806	1 -.112983	2
4.0	.389090	.219465	1 -.444537	.237617		.584574	.272062	1 -.108392	2
4.2	.385542	.231393	1 -.465764	.234156		.607103	.284228	1 -.104537	2
4.4	.381924	.243264	1 -.486570	.231012		.629161	.296321	1 -.101253	2
4.6	.378279	.255087	1 -.506977	.228141		.650783	.308355	1 -.984228	1
4.8	.374639	.266873	1 -.527004	.225511		.671998	.320344	1 -.959579	1
5.0	.371027	.278627	1 -.546668	.223093		.692830	.332297	1 -.937919	1
5.2	.367460	.290358	1 -.565984	.220862		.713302	.344226	1 -.918735	1
5.4	.363950	.302072	1 -.584966	.218797		.733433	.356137	1 -.901625	1
5.6	.360507	.313774	1 -.603627	.216881		.753239	.368040	1 -.886268	1
5.8	.357134	.325472	1 -.621979	.215099		.772736	.379940	1 -.872407	1
6.0	.353836	.337169	1 -.640031	.213437		.791936	.391845	1 -.859832	1
6.2	.350615	.348871	1 -.657794	.211883		.810852	.403759	1 -.848371	1

Z = -78, A = 194

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.171534 - 3	.249020 - 4	-.309328 - 5	-.161317 - 1	.135980 - 4	.103390 - 3	.135852	1
.6	.114726 - 2	.184456 - 3	-.228511 - 4	-.497647	.775232 - 4	.590938 - 3	.785958	
.8	.255823 - 2	.582343 - 3	-.718932 - 4	-.778122	.201061 - 3	.153766 - 2	.637789	
1.0	.385334 - 2	.126486 - 2	-.155520 - 3	-.971622	.376481 - 3	.289031 - 2	.575906	
1.2	.486615 - 2	.224297 - 2	-.274542 - 3	-.111299	.595346 - 3	.459010 - 2	.545143	
1.4	.561219 - 2	.351289 - 2	-.427899 - 3	-.121974	.851591 - 3	.659595 - 2	.528477	
1.6	.614982 - 2	.506643 - 2	-.613978 - 3	-.130240	.114120 - 2	.888199 - 2	.519045	
1.8	.653452 - 2	.689510 - 2	-.831142 - 3	-.136776	.146151 - 2	.114324 - 1	.513630	
2.0	.680912 - 2	.899153 - 2	-.107790 - 2	-.142041	.181065 - 2	.142372 - 1	.510569	
2.2	.700463 - 2	.113496 - 1	-.135293 - 2	-.146350	.218726 - 2	.172904 - 1	.508940	
2.4	.714301 - 2	.139646 - 1	-.165506 - 2	-.149927	.259026 - 2	.205878 - 1	.508206	
2.6	.723978 - 2	.168324 - 1	-.198328 - 2	-.152936	.301877 - 2	.241269 - 1	.508041	
2.8	.730595 - 2	.199500 - 1	-.233664 - 2	-.155495	.347201 - 2	.279057 - 1	.508239	
3.0	.734942 - 2	.233148 - 1	-.271430 - 2	-.157693	.394927 - 2	.319229 - 1	.508671	
3.2	.737592 - 2	.269249 - 1	-.311545 - 2	-.159599	.444990 - 2	.361775 - 1	.509250	
3.4	.738962 - 2	.307785 - 1	-.353937 - 2	-.161265	.497328 - 2	.406689 - 1	.509920	
3.6	.739363 - 2	.348742 - 1	-.398535 - 2	-.162732	.551880 - 2	.453964 - 1	.510641	
3.8	.739027 - 2	.392109 - 1	-.445272 - 2	-.164033	.608589 - 2	.503596 - 1	.511388	
4.0	.738129 - 2	.437875 - 1	-.494083 - 2	-.165192	.667398 - 2	.555582 - 1	.512144	
4.2	.736801 - 2	.486033 - 1	-.544905 - 2	-.166232	.728250 - 2	.609918 - 1	.512896	
4.4	.735145 - 2	.536575 - 1	-.597677 - 2	-.167170	.791092 - 2	.666602 - 1	.513637	
4.6	.733242 - 2	.589495 - 1	-.652340 - 2	-.168018	.855867 - 2	.725632 - 1	.514361	
4.8	.731151 - 2	.644789 - 1	-.708836 - 2	-.168790	.922524 - 2	.787008 - 1	.515065	
5.0	.728920 - 2	.702452 - 1	-.767107 - 2	-.169495	.991006 - 2	.850726 - 1	.515747	
5.2	.726588 - 2	.762480 - 1	-.827096 - 2	-.170140	.106126 - 1	.916787 - 1	.516406	
5.4	.724184 - 2	.824869 - 1	-.888747 - 2	-.170734	.113324 - 1	.985189 - 1	.517041	
5.6	.721731 - 2	.889618 - 1	-.952006 - 2	-.171281	.120689 - 1	.105593	.517652	
5.8	.719248 - 2	.956723 - 1	-.101682 - 1	-.171788	.128215 - 1	.112902	.518241	
6.0	.716750 - 2	.102618	-.108313 - 1	-.172257	.135898 - 1	.120444	.518806	
6.2	.714248 - 2	.109800	-.115089 - 1	-.172694	.143732 - 1	.128220	.519349	

Z = -79, A = 193

p	F ₀	f ₁	g ₁	tanΔ ₁		f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.419667 - 2	.119284 - 1	-.269383 - 2	.135520	1	.775094 - 2	.325409 - 1	.343102	2
.6	.440309 - 1	.646277 - 1	-.145568 - 1	.739124		.369908 - 1	.155687	.771312	1
.8	.120479	.156995	-.352427 - 1	.561209		.799519 - 1	.337581	.880940	1
1.0	.200611	.274032	-.612730 - 1	.472898		.126351	.535499	.122838	2
1.2	.266506	.403680	-.898672 - 1	.418816		.171380	.729371	.195018	2
1.4	.315181	.538658	-.119352	.381779		.213540	.912882	.385807	2
1.6	.349240	.675020	-.148824	.354612		.252687	.108535	1 .198439	3
1.8	.372249	.810773	-.177832	.333739		.289120	.124795	1 -.820939	2
2.0	.387274	.944992	-.206168	.317155		.323233	.140228	1 -.377229	2
2.2	.396630	.107732	1 -.233756	.303642		.355397	.154984	1 -.259336	2
2.4	.401984	.120769	1 -.260586	.292408		.385923	.169189	1 -.204889	2
2.6	.404514	.133618	1 -.286678	.282916		.415064	.182947	1 -.173580	2
2.8	.405052	.146293	1 -.312070	.274787		.443026	.196341	1 -.153267	2
3.0	.404182	.158810	1 -.336802	.267746		.469970	.209437	1 -.139034	2
3.2	.402322	.171189	1 -.360917	.261587		.496027	.222289	1 -.128513	2
3.4	.399771	.183444	1 -.384454	.256155		.521304	.234941	1 -.120421	2
3.6	.396741	.195591	1 -.407451	.251327		.545885	.247427	1 -.114007	2
3.8	.393388	.207646	1 -.429940	.247009		.569842	.259776	1 -.108799	2
4.0	.389826	.219620	1 -.451953	.243124		.593234	.272014	1 -.104486	2
4.2	.386137	.231525	1 -.473517	.239610		.616110	.284160	1 -.100856	2
4.4	.382381	.243373	1 -.494657	.236416		.638510	.296232	1 -.977593	1
4.6	.378602	.255172	1 -.515394	.233502		.660471	.308244	1 -.950861	1
4.8	.374833	.266933	1 -.535748	.230831		.682023	.320210	1 -.927553	1
5.0	.371097	.278661	1 -.555737	.228376		.703191	.332141	1 -.907048	1
5.2	.367411	.290366	1 -.575378	.226110		.723998	.344047	1 -.888870	1
5.4	.363787	.302054	1 -.594684	.224014		.744464	.355936	1 -.872643	1
5.6	.360233	.313731	1 -.613670	.222069		.764607	.367817	1 -.858067	1
5.8	.356755	.325402	1 -.632346	.220259		.784441	.379695	1 -.844902	1
6.0	.353356	.337074	1 -.650724	.218572		.803981	.391579	1 -.832951	1
6.2	.350039	.348750	1 -.668814	.216995		.823238	.403473	1 -.822053	1

Z = -79, A = 193

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.160654 - 3	.241617 - 4	-.304354 - 5	.642911 - 2	.133035 - 4	.998320 - 4	.140664	1
.6	.110683 - 2	.181289 - 3	-.227757 - 4	-.477976	.769809 - 4	.579134 - 3	.803805	
.8	.249864 - 2	.575347 - 3	-.720354 - 4	-.757286	.200900 - 3	.151628 - 2	.650619	
1.0	.378663 - 2	.125287 - 2	-.156237 - 3	-.949258	.377358 - 3	.285889 - 2	.586960	
1.2	.479798 - 2	.222482 - 2	-.276211 - 3	-.108923	.597783 - 3	.454794 - 2	.555384	
1.4	.554444 - 2	.348726 - 2	-.430877 - 3	-.119481	.855991 - 3	.654192 - 2	.538297	
1.6	.608282 - 2	.503186 - 2	-.618594 - 3	-.127649	.114788 - 2	.881467 - 2	.528631	
1.8	.646806 - 2	.685002 - 2	-.837697 - 3	-.134104	.147074 - 2	.113501 - 1	.523083	
2.0	.674291 - 2	.893423 - 2	-.108667 - 2	-.139301	.182267 - 2	.141383 - 1	.519946	
2.2	.693837 - 2	.112783 - 1	-.136418 - 2	-.143553	.220228 - 2	.171728 - 1	.518275	
2.4	.707648 - 2	.138774 - 1	-.166905 - 2	-.147083	.260850 - 2	.204498 - 1	.517520	
2.6	.717280 - 2	.167275 - 1	-.200023 - 2	-.150051	.304042 - 2	.239663 - 1	.517347	
2.8	.723840 - 2	.198254 - 1	-.235680 - 2	-.152575	.349727 - 2	.277205 - 1	.517547	
3.0	.728123 - 2	.231686 - 1	-.273789 - 2	-.154743	.397834 - 2	.317111 - 1	.517985	
3.2	.730703 - 2	.267550 - 1	-.314272 - 2	-.156622	.448297 - 2	.359370 - 1	.518574	
3.4	.732001 - 2	.305828 - 1	-.357053 - 2	-.158265	.501055 - 2	.403976 - 1	.519256	
3.6	.732328 - 2	.346507 - 1	-.402063 - 2	-.159711	.556047 - 2	.450921 - 1	.519991	
3.8	.731919 - 2	.389575 - 1	-.449234 - 2	-.160993	.613217 - 2	.500203 - 1	.520753	
4.0	.730947 - 2	.435021 - 1	-.498503 - 2	-.162136	.672506 - 2	.551816 - 1	.521524	
4.2	.729547 - 2	.482838 - 1	-.549805 - 2	-.163161	.733861 - 2	.605758 - 1	.522291	
4.4	.727821 - 2	.533018 - 1	-.603082 - 2	-.164084	.797225 - 2	.662026 - 1	.523047	
4.6	.725849 - 2	.585554 - 1	-.658273 - 2	-.164921	.862545 - 2	.720619 - 1	.523785	
4.8	.723691 - 2	.640443 - 1	-.715320 - 2	-.165681	.929767 - 2	.781534 - 1	.524503	
5.0	.721396 - 2	.697678 - 1	-.774166 - 2	-.166376	.998839 - 2	.844770 - 1	.525199	
5.2	.719001 - 2	.757256 - 1	-.834755 - 2	-.167012	.106971 - 1	.910327 - 1	.525871	
5.4	.716536 - 2	.819175 - 1	-.897032 - 2	-.167597	.114232 - 1	.978203 - 1	.526519	
5.6	.714025 - 2	.883430 - 1	-.960941 - 2	-.168136	.121662 - 1	.104840	.527143	
5.8	.711485 - 2	.950020 - 1	-.102643 - 1	-.168635	.129257 - 1	.112091	.527743	
6.0	.708932 - 2	.101894	-.109344 - 1	-.169098	.137010 - 1	.119574	.528320	
6.2	.706378 - 2	.109020	-.116193 - 1	-.169528	.144917 - 1	.127289	.528875	

Z = -80, A = 200

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.393436 - 2	.116393 - 1	-.266436 - 2	.140379 1	.758367 - 2	.314120 - 1	.547090 2
.6	.426908 - 1	.639733 - 1	-.146058 - 1	.756308	.368106 - 1	.152853	.801048 1
.8	.118552	.156285	-.355613 - 1	.573054	.801640 - 1	.333944	.905032 1
1.0	.198885	.273497	-.619863 - 1	.482644	.127181	.531801	.126715 2
1.2	.265285	.403399	-.910274 - 1	.427437	.172884	.725926	.204547 2
1.4	.314445	.538615	-.120967	.389690	.215694	.909753	.425886 2
1.6	.348858	.675155	-.150879	.362028	.255438	.108249 1	.400490 3
1.8	.372082	.811012	-.180304	.340789	.292411	.124528 1	-.673830 2
2.0	.387207	.945263	-.209032	.323923	.327014	.139972 1	-.341484 2
2.2	.396579	.107756 1	-.236986	.310184	.359623	.154732 1	-.241296 2
2.4	.401891	.120784 1	-.264159	.298765	.390558	.168934 1	-.193091 2
2.6	.404339	.133619 1	-.290575	.289118	.420078	.182685 1	-.164793 2
2.8	.404768	.146276 1	-.316272	.280858	.448392	.196067 1	-.146202 2
3.0	.403775	.158773 1	-.341295	.273705	.475669	.209149 1	-.133065 2
3.2	.401784	.171129 1	-.365687	.267449	.502043	.221985 1	-.123295 2
3.4	.399096	.183359 1	-.389491	.261931	.527622	.234618 1	-.115747 2
3.6	.395930	.195481 1	-.412744	.257028	.552496	.247085 1	-.109743 2
3.8	.392443	.207508 1	-.435482	.252643	.576736	.259416 1	-.104853 2
4.0	.388749	.219455 1	-.457737	.248697	.600404	.271634 1	-.100795 2
4.2	.384932	.231334 1	-.479537	.245129	.623550	.283762 1	-.973733 1
4.4	.381052	.243155 1	-.500909	.241887	.646217	.295816 1	-.944490 1
4.6	.377155	.254928 1	-.521874	.238928	.668441	.307812 1	-.919211 1
4.8	.373272	.266663 1	-.542454	.236217	.690254	.319763 1	-.897142 1
5.0	.369427	.278367 1	-.562666	.233724	.711681	.331681 1	-.877708 1
5.2	.365637	.290049 1	-.582529	.231424	.732747	.343575 1	-.860462 1
5.4	.361914	.301715 1	-.602056	.229297	.753473	.355454 1	-.845053 1
5.6	.358265	.313372 1	-.621262	.227322	.773875	.367328 1	-.831203 1
5.8	.354697	.325026 1	-.640158	.225486	.793970	.379202 1	-.818685 1
6.0	.351211	.336681 1	-.658757	.223773	.813772	.391083 1	-.807314 1
6.2	.347811	.348344 1	-.677069	.222173	.833294	.402978 1	-.796939 1

Z = -80, A = 200

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.150121 - 3	.237391 - 4	-.302935 - 5	.290715 - 1	.131768 - 4	.976120 - 4	.145745	1
.6	.106548 - 2	.180434 - 3	-.229641 - 4	-.458550	.773919 - 4	.574749 - 3	.822080	
.8	.243516 - 2	.575648 - 3	-.730139 - 4	-.736806	.203229 - 3	.151416 - 2	.663668	
1.0	.371310 - 2	.125676 - 2	-.158769 - 3	-.927323	.382914 - 3	.286373 - 2	.598174	
1.2	.472066 - 2	.223486 - 2	-.281081 - 3	-.106596	.607626 - 3	.456345 - 2	.565762	
1.4	.546581 - 2	.350586 - 2	-.438831 - 3	-.117040	.870970 - 3	.657090 - 2	.548241	
1.6	.600370 - 2	.506115 - 2	-.630319 - 3	-.125113	.116871 - 2	.885929 - 2	.538336	
1.8	.638860 - 2	.689192 - 2	-.853827 - 3	-.131490	.149801 - 2	.114121 - 1	.532651	
2.0	.666305 - 2	.899047 - 2	-.110779 - 2	-.136622	.185694 - 2	.142191 - 1	.529436	
2.2	.685801 - 2	.113505 - 1	-.139083 - 2	-.140820	.224406 - 2	.172739 - 1	.527722	
2.4	.699552 - 2	.139669 - 1	-.170175 - 2	-.144303	.265826 - 2	.205722 - 1	.526945	
2.6	.709116 - 2	.168357 - 1	-.203947 - 2	-.147231	.309862 - 2	.241112 - 1	.526764	
2.8	.715605 - 2	.199536 - 1	-.240302 - 2	-.149721	.356432 - 2	.278891 - 1	.526965	
3.0	.719813 - 2	.233179 - 1	-.279154 - 2	-.151859	.405467 - 2	.319043 - 1	.527410	
3.2	.722317 - 2	.269266 - 1	-.320421 - 2	-.153713	.456897 - 2	.361558 - 1	.528009	
3.4	.723539 - 2	.307780 - 1	-.364027 - 2	-.155333	.510661 - 2	.406430 - 1	.528704	
3.6	.723792 - 2	.348704 - 1	-.409900 - 2	-.156759	.566696 - 2	.453651 - 1	.529453	
3.8	.723308 - 2	.392028 - 1	-.457972 - 2	-.158022	.624945 - 2	.503218 - 1	.530229	
4.0	.722265 - 2	.437740 - 1	-.508176 - 2	-.159149	.685349 - 2	.555126 - 1	.531015	
4.2	.720796 - 2	.485833 - 1	-.560449 - 2	-.160160	.747852 - 2	.609372 - 1	.531798	
4.4	.719004 - 2	.536300 - 1	-.614730 - 2	-.161071	.812398 - 2	.665953 - 1	.532568	
4.6	.716967 - 2	.589132 - 1	-.670957 - 2	-.161895	.878932 - 2	.724868 - 1	.533322	
4.8	.714747 - 2	.644326 - 1	-.729071 - 2	-.162645	.947399 - 2	.786115 - 1	.534055	
5.0	.712393 - 2	.701877 - 1	-.789015 - 2	-.163329	.101775 - 1	.849692 - 1	.534764	
5.2	.709941 - 2	.761780 - 1	-.850731 - 2	-.163956	.108992 - 1	.915598 - 1	.535450	
5.4	.707421 - 2	.824033 - 1	-.914162 - 2	-.164533	.116387 - 1	.983833 - 1	.536111	
5.6	.704856 - 2	.888632 - 1	-.979253 - 2	-.165065	.123953 - 1	.105439	.536748	
5.8	.702266 - 2	.955575 - 1	-.104595 - 1	-.165556	.131686 - 1	.112728	.537360	
6.0	.699664 - 2	.102486	-.111419 - 1	-.166012	.139581 - 1	.120250	.537949	
6.2	.697062 - 2	.109649	-.118394 - 1	-.166436	.147632 - 1	.128004	.538515	

Z = -81, A = 201

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.370433 - 2	.113796 - 1	-.264159 - 2	.145512 1	.743300 - 2	.303785 - 1	.139108	3
.6	.415693 - 1	.634518 - 1	-.146911 - 1	.773895	.366958 - 1	.150346	.834168	1
.8	.117156	.155888	-.359725 - 1	.585096	.805194 - 1	.330947	.931401	1
1.0	.198019	.273501	-.628661 - 1	.492528	.128246	.529078	.130990	2
1.2	.265200	.403902	-.924372 - 1	.436169	.174717	.723779	.215384	2
1.4	.315051	.539602	-.122918	.397697	.218268	.908218	.476694	2
1.6	.349961	.676560	-.153358	.369534	.258696	.108149 1	-.962073	4
1.8	.373495	.812751	-.183287	.347923	.296293	.124472 1	-.569633	2
2.0	.388781	.947250	-.212493	.330769	.331464	.139948 1	-.311412	2
2.2	.398205	.107971 1	-.240899	.316801	.364594	.154730 1	-.225340	2
2.4	.403491	.121009 1	-.268500	.305194	.396010	.168947 1	-.182411	2
2.6	.405862	.133848 1	-.295323	.295391	.425979	.182705 1	-.156731	2
2.8	.406181	.146504 1	-.321409	.286998	.454717	.196090 1	-.139664	2
3.0	.405056	.158996 1	-.346804	.279731	.482396	.209170 1	-.127509	2
3.2	.402919	.171343 1	-.371556	.273376	.509154	.222000 1	-.118417	2
3.4	.400081	.183561 1	-.395708	.267772	.535104	.234625 1	-.111363	2
3.6	.396761	.195669 1	-.419300	.262792	.560337	.247081 1	-.105733	2
3.8	.393121	.207680 1	-.442369	.258339	.584927	.259399 1	-.101136	2
4.0	.389277	.219610 1	-.464949	.254333	.608939	.271605 1	-.973121	1
4.2	.385313	.231469 1	-.487068	.250710	.632423	.283718 1	-.940817	1
4.4	.381292	.243271 1	-.508755	.247418	.655424	.295758 1	-.913167	1
4.6	.377257	.255025 1	-.530032	.244413	.677979	.307740 1	-.889234	1
4.8	.373242	.266739 1	-.550921	.241661	.700121	.319677 1	-.868315	1
5.0	.369271	.278424 1	-.571442	.239130	.721878	.331581 1	-.849875	1
5.2	.365359	.290086 1	-.591612	.236796	.743273	.343462 1	-.833497	1
5.4	.361519	.301733 1	-.611447	.234636	.764327	.355330 1	-.818852	1
5.6	.357759	.313372 1	-.630960	.232632	.785060	.367192 1	-.805678	1
5.8	.354084	.325007 1	-.650165	.230768	.805488	.379057 1	-.793764	1
6.0	.350497	.336646 1	-.669074	.229030	.825624	.390930 1	-.782935	1
6.2	.346999	.348294 1	-.687697	.227405	.845484	.402818 1	-.773050	1

Z = -81, A = 201

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.140531 - 3	.231069 - 4	-.298853 - 5	.518191 - 1	.129279 - 4	.945497 - 4	.151120	1
.6	.102759 - 2	.177918 - 3	-.229507 - 4	-.439355	.770735 - 4	.565088 - 3	.840802	
.8	.237783 - 2	.570615 - 3	-.733586 - 4	-.716667	.203661 - 3	.149799 - 2	.676944	
1.0	.364801 - 2	.124899 - 2	-.159937 - 3	-.905799	.384933 - 3	.284193 - 2	.609554	
1.2	.465357 - 2	.222415 - 2	-.283559 - 3	-.104315	.611901 - 3	.453646 - 2	.576280	
1.4	.539874 - 2	.349186 - 2	-.443079 - 3	-.114649	.878023 - 3	.653863 - 2	.558314	
1.6	.593708 - 2	.504334 - 2	-.636759 - 3	-.122631	.117896 - 2	.882124 - 2	.548162	
1.8	.632233 - 2	.686962 - 2	-.862846 - 3	-.128932	.151182 - 2	.113675 - 1	.542337	
2.0	.659687 - 2	.896286 - 2	-.111974 - 2	-.134001	.187462 - 2	.141671 - 1	.539041	
2.2	.679167 - 2	.113167 - 1	-.140606 - 2	-.138146	.226590 - 2	.172133 - 1	.537283	
2.4	.692881 - 2	.139259 - 1	-.172056 - 2	-.141584	.268453 - 2	.205019 - 1	.536484	
2.6	.702395 - 2	.167863 - 1	-.206216 - 2	-.144474	.312957 - 2	.240301 - 1	.536294	
2.8	.708822 - 2	.198948 - 1	-.242989 - 2	-.146931	.360022 - 2	.277958 - 1	.536496	
3.0	.712962 - 2	.232486 - 1	-.282286 - 2	-.149041	.409575 - 2	.317976 - 1	.536948	
3.2	.715394 - 2	.268455 - 1	-.324025 - 2	-.150869	.461549 - 2	.360345 - 1	.537558	
3.4	.716542 - 2	.306838 - 1	-.368130 - 2	-.152467	.515880 - 2	.405057 - 1	.538265	
3.6	.716720 - 2	.347620 - 1	-.414529 - 2	-.153873	.572507 - 2	.452105 - 1	.539028	
3.8	.716162 - 2	.390788 - 1	-.463152 - 2	-.155120	.631371 - 2	.501484 - 1	.539020	
4.0	.715046 - 2	.436332 - 1	-.513934 - 2	-.156231	.692414 - 2	.553192 - 1	.540621	
4.2	.713505 - 2	.484243 - 1	-.566811 - 2	-.157228	.755580 - 2	.607223 - 1	.541419	
4.4	.711642 - 2	.534513 - 1	-.621720 - 2	-.158126	.820812 - 2	.663576 - 1	.542205	
4.6	.709537 - 2	.587137 - 1	-.678601 - 2	-.158939	.888056 - 2	.722249 - 1	.542974	
4.8	.707251 - 2	.642108 - 1	-.737394 - 2	-.159678	.957258 - 2	.783239 - 1	.543721	
5.0	.704833 - 2	.699423 - 1	-.798042 - 2	-.160353	.102836 - 1	.846545 - 1	.544446	
5.2	.702319 - 2	.759076 - 1	-.860487 - 2	-.160971	.110132 - 1	.912167 - 1	.545145	
5.4	.699740 - 2	.821064 - 1	-.924673 - 2	-.161539	.117607 - 1	.980102 - 1	.545820	
5.6	.697118 - 2	.885385 - 1	-.990544 - 2	-.162063	.125256 - 1	.105035	.546470	
5.8	.694472 - 2	.952036 - 1	-.105805 - 1	-.162548	.133075 - 1	.112291	.547095	
6.0	.691817 - 2	.102101	-.112712 - 1	-.162998	.141058 - 1	.119779	.547696	
6.2	.689163 - 2	.109232	-.119772 - 1	-.163416	.149199 - 1	.127497	.548273	

Z = -82, A = 203

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.348747 - 2	.111246 - 1	-.261811 - 2	.150944 1	.728373 - 2	.293768 - 1	-.242482	3
.6	.404737 - 1	.629309 - 1	-.147723 - 1	.791903	.365731 - 1	.147870	.871225	1
.8	.115766	.155485	-.363774 - 1	.597340	.808583 - 1	.327954	.960329	1
1.0	.197137	.273495	-.637390 - 1	.502552	.129291	.526337	.135718	2
1.2	.265087	.404391	-.938393 - 1	.445015	.176530	.721599	.227805	2
1.4	.315621	.540572	-.124860	.405805	.220823	.906643	.543143	2
1.6	.351023	.677944	-.155826	.377130	.261935	.108045	1 -.361816	3
1.8	.374862	.814464	-.186256	.355141	.300156	.124411	1 -.491986	2
2.0	.390303	.949208	-.215935	.337696	.335895	.139920	1 -.285765	2
2.2	.399772	.108184	1 -.244788	.323494	.369544	.154725	1 -.211128	2
2.4	.405027	.121231	1 -.272811	.311697	.401440	.168958	1 -.172694	2
2.6	.407316	.134074	1 -.300034	.301736	.431857	.182725	1 -.149306	2
2.8	.407518	.146730	1 -.326502	.293209	.461016	.196113	1 -.133594	2
3.0	.406256	.159217	1 -.352263	.285826	.489094	.209192	1 -.122321	2
3.2	.403970	.171555	1 -.377367	.279372	.516233	.222018	1 -.113845	2
3.4	.400976	.183762	1 -.401860	.273680	.542551	.234637	1 -.107241	2
3.6	.397500	.195857	1 -.425783	.268623	.568140	.247085	1 -.101954	2
3.8	.393704	.207854	1 -.449176	.264101	.593079	.259394	1 -.976251	1
4.0	.389706	.219767	1 -.472072	.260033	.617431	.271589	1 -.940169	1
4.2	.385593	.231610	1 -.494503	.256354	.641250	.283693	1 -.909634	1
4.4	.381427	.243395	1 -.516498	.253012	.664583	.295722	1 -.883459	1
4.6	.377253	.255131	1 -.538080	.249962	.687468	.307694	1 -.860773	1
4.8	.373104	.266829	1 -.559271	.247168	.709938	.319621	1 -.840923	1
5.0	.369005	.278497	1 -.580094	.244599	.732021	.331517	1 -.823407	1
5.2	.364970	.290143	1 -.600564	.242230	.753744	.343390	1 -.807836	1
5.4	.361013	.301775	1 -.620699	.240038	.775127	.355252	1 -.793902	1
5.6	.357141	.313399	1 -.640513	.238004	.796189	.367109	1 -.781359	1
5.8	.353358	.325022	1 -.660020	.236112	.816949	.378971	1 -.770009	1
6.0	.349668	.336649	1 -.679233	.234348	.837421	.390843	1 -.759687	1
6.2	.346072	.348286	1 -.698162	.232699	.857618	.402732	1 -.750259	1

Z = -82, A = 203

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.131522 - 3	.225263 - 4	-.295205 - 5	.746961 - 1	.127011 - 4	.917229 - 4	.156819	1
.6	.990891 - 3	.175715 - 3	-.229674 - 4	-.420377	.768642 - 4	.556458 - 3	.859991	
.8	.232156 - 2	.566530 - 3	-.738027 - 4	-.696852	.204383 - 3	.148433 - 2	.690454	
1.0	.358368 - 2	.124326 - 2	-.161327 - 3	-.884669	.387511 - 3	.282478 - 2	.621103	
1.2	.458697 - 2	.221704 - 2	-.286435 - 3	-.102078	.617078 - 3	.451682 - 2	.586941	
1.4	.533197 - 2	.348350 - 2	-.447952 - 3	-.112307	.886382 - 3	.651691 - 2	.568517	
1.6	.587063 - 2	.503367 - 2	-.644099 - 3	-.120201	.119097 - 2	.879740 - 2	.558113	
1.8	.625612 - 2	.685839 - 2	-.873081 - 3	-.126429	.152788 - 2	.113412 - 1	.552143	
2.0	.653067 - 2	.894970 - 2	-.113327 - 2	-.131436	.189509 - 2	.141378 - 1	.548765	
2.2	.672526 - 2	.113011 - 1	-.142324 - 2	-.135529	.229199 - 2	.171804 - 1	.546960	
2.4	.686200 - 2	.139072 - 1	-.174174 - 2	-.138925	.271475 - 2	.204646 - 1	.546139	
2.6	.695660 - 2	.167640 - 1	-.208768 - 2	-.141777	.316512 - 2	.239876 - 1	.545941	
2.8	.702023 - 2	.198680 - 1	-.246006 - 2	-.144202	.364137 - 2	.277473 - 1	.546143	
3.0	.706094 - 2	.232166 - 1	-.285798 - 2	-.146284	.414277 - 2	.317421 - 1	.546602	
3.2	.708452 - 2	.268076 - 1	-.328062 - 2	-.148088	.466865 - 2	.359712 - 1	.547222	
3.4	.709525 - 2	.306390 - 1	-.372721 - 2	-.149665	.521836 - 2	.404335 - 1	.547942	
3.6	.709628 - 2	.347095 - 1	-.419702 - 2	-.151052	.579129 - 2	.451285 - 1	.548720	
3.8	.708995 - 2	.390176 - 1	-.468935 - 2	-.152282	.638684 - 2	.500558 - 1	.549527	
4.0	.707805 - 2	.435625 - 1	-.520353 - 2	-.153378	.700444 - 2	.552148 - 1	.550344	
4.2	.706192 - 2	.483431 - 1	-.573893 - 2	-.154361	.764351 - 2	.606052 - 1	.551158	
4.4	.704260 - 2	.533588 - 1	-.629492 - 2	-.155246	.830351 - 2	.662268 - 1	.551960	
4.6	.702087 - 2	.586088 - 1	-.687089 - 2	-.156048	.898387 - 2	.720793 - 1	.552744	
4.8	.699735 - 2	.640926 - 1	-.746624 - 2	-.156777	.968405 - 2	.781626 - 1	.553507	
5.0	.697253 - 2	.698096 - 1	-.808040 - 2	-.157443	.104035 - 1	.844764 - 1	.554246	
5.2	.694678 - 2	.757596 - 1	-.871278 - 2	-.158052	.111417 - 1	.910207 - 1	.554960	
5.4	.692039 - 2	.819421 - 1	-.936283 - 2	-.158613	.118981 - 1	.977954 - 1	.555648	
5.6	.689360 - 2	.883567 - 1	-.100300 - 1	-.159130	.126722 - 1	.104800	.556311	
5.8	.686660 - 2	.950034 - 1	-.107137 - 1	-.159608	.134635 - 1	.112035	.556949	
6.0	.683952 - 2	.101882	-.114134 - 1	-.160051	.142714 - 1	.119501	.557562	
6.2	.681247 - 2	.108992	-.121286 - 1	-.160463	.150954 - 1	.127196	.558152	

Z = -83, A = 207

p	F ₀	f ₁	g ₁	tanΔ ₁		f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.328082 - 2	.108708 - 1	-.259289 - 2	.156707	1	.713373 - 2	.283976 - 1	-.638564	2
.6	.393767 - 1	.623906 - 1	-.148432 - 1	.810349		.364317 - 1	.145381	.912904	1
.8	.114304	.155027	-.367606 - 1	.609794		.811558 - 1	.324873	.992146	1
1.0	.196105	.273392	-.645775 - 1	.512721		.130276	.523429	.140967	2
1.2	.264764	.404741	-.951935 - 1	.453978		.178268	.719185	.242163	2
1.4	.315939	.541360	-.126739	.414014		.223288	.904779	.633665	2
1.6	.351803	.679104	-.158215	.384818		.265073	.107908	1	-.182391 3
1.8	.375923	.815913	-.189128	.362445		.303905	.124313	1	-.431921 2
2.0	.391503	.950864	-.219262	.344703		.340199	.139852	1	-.263645 2
2.2	.401005	.108363	1	-.248543		.374356	.154678	1	-.198394 2
2.4	.406219	.121417	1	-.276969		.406719	.168924	1	-.163821 2
2.6	.408418	.134261	1	-.304574		.437571	.182699	1	-.142449 2
2.8	.408498	.146914	1	-.331404		.467138	.196091	1	-.127946 2
3.0	.407095	.159394	1	-.357511		.495603	.209170	1	-.117469 2
3.2	.404657	.171722	1	-.382947		.523113	.221993	1	-.109551 2
3.4	.401505	.183918	1	-.407761		.549786	.234607	1	-.103359 2
3.6	.397870	.195999	1	-.431996		.575720	.247049	1	-.983856 1
3.8	.393918	.207982	1	-.455692		.600995	.259351	1	-.943043 1
4.0	.389767	.219880	1	-.478886		.625677	.271540	1	-.908953 1
4.2	.385505	.231708	1	-.501610		.649822	.283637	1	-.880054 1
4.4	.381195	.243478	1	-.523892		.673477	.295660	1	-.855246 1
4.6	.376883	.255199	1	-.545760		.696681	.307627	1	-.833719 1
4.8	.372602	.266883	1	-.567236		.719469	.319551	1	-.814861 1
5.0	.368375	.278538	1	-.588340		.741871	.331444	1	-.798206 1
5.2	.364219	.290172	1	-.609093		.763912	.343318	1	-.783387 1
5.4	.360146	.301793	1	-.629510		.785615	.355181	1	-.770117 1
5.6	.356163	.313409	1	-.649608		.807000	.367042	1	-.758164 1
5.8	.352275	.325024	1	-.669400		.828085	.378910	1	-.747340 1
6.0	.348485	.336647	1	-.688899		.848884	.390791	1	-.737492 1
6.2	.344793	.348281	1	-.708117		.869414	.402693	1	-.728492 1

Z = -83, A = 207

p	$\overline{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.123023 - 3	.220253 - 4	-.292363 - 5	.977273 - 1	.125130 - 4	.892426 - 4	.162874	1
.6	.955047 - 3	.174061 - 3	-.230450 - 4	-.401603	.768717 - 4	.549594 - 3	.879669	
.8	.226562 - 2	.564174 - 3	-.744463 - 4	-.677349	.205688 - 3	.147522 - 2	.704207	
1.0	.351899 - 2	.124130 - 2	-.163159 - 3	-.863917	.391210 - 3	.281619 - 2	.632827	
1.2	.451944 - 2	.221666 - 2	-.290102 - 3	-.998844	.624055 - 3	.451086 - 2	.597750	
1.4	.526384 - 2	.348570 - 2	-.454064 - 3	-.110011	.897333 - 3	.651492 - 2	.578855	
1.6	.580251 - 2	.503926 - 2	-.653217 - 3	-.117820	.120646 - 2	.880020 - 2	.568191	
1.8	.618802 - 2	.686797 - 2	-.885716 - 3	-.123977	.154841 - 2	.113493 - 1	.562073	
2.0	.646243 - 2	.896368 - 2	-.114990 - 2	-.128925	.192107 - 2	.141514 - 1	.558610	
2.2	.665669 - 2	.113197 - 1	-.144430 - 2	-.132969	.232293 - 2	.171996 - 1	.556758	
2.4	.679294 - 2	.139308 - 1	-.176764 - 2	-.136322	.275282 - 2	.204894 - 1	.555913	
2.6	.688694 - 2	.167926 - 1	-.211880 - 2	-.139138	.320975 - 2	.240179 - 1	.555706	
2.8	.694990 - 2	.199017 - 1	-.249678 - 2	-.141532	.369291 - 2	.277830 - 1	.555909	
3.0	.698988 - 2	.232553 - 1	-.290066 - 2	-.143587	.420155 - 2	.317831 - 1	.556374	
3.2	.701271 - 2	.268511 - 1	-.332960 - 2	-.145368	.473497 - 2	.360171 - 1	.557006	
3.4	.702268 - 2	.306874 - 1	-.378281 - 2	-.146923	.529254 - 2	.404843 - 1	.557739	
3.6	.702295 - 2	.347626 - 1	-.425957 - 2	-.148293	.587362 - 2	.451840 - 1	.558532	
3.8	.701587 - 2	.390753 - 1	-.475915 - 2	-.140606	.647703 - 2	.501155 - 1	.559355	
4.0	.700324 - 2	.436246 - 1	-.528090 - 2	-.150588	.710396 - 2	.552786 - 1	.560188	
4.2	.698639 - 2	.484094 - 1	-.582416 - 2	-.151557	.775206 - 2	.606729 - 1	.561018	
4.4	.696637 - 2	.534290 - 1	-.638829 - 2	-.152431	.842135 - 2	.662980 - 1	.561836	
4.6	.694397 - 2	.586827 - 1	-.697269 - 2	-.153222	.911129 - 2	.721538 - 1	.562636	
4.8	.691981 - 2	.641700 - 1	-.757675 - 2	-.153941	.982131 - 2	.782400 - 1	.563414	
5.0	.689437 - 2	.698903 - 1	-.819989 - 2	-.154597	.105509 - 1	.845565 - 1	.564168	
5.2	.686802 - 2	.758432 - 1	-.884152 - 2	-.155199	.112995 - 1	.911032 - 1	.564896	
5.4	.684106 - 2	.820283 - 1	-.950107 - 2	-.155751	.120665 - 1	.978799 - 1	.565599	
5.6	.681371 - 2	.884454 - 1	-.101780 - 1	-.156261	.128515 - 1	.104886	.566275	
5.8	.678617 - 2	.950942 - 1	-.108717 - 1	-.156733	.136539 - 1	.112123	.566926	
6.0	.675858 - 2	.101974	-.115817 - 1	-.157170	.144732 - 1	.119589	.567552	
6.2	.673104 - 2	.109086	-.123074 - 1	-.157576	.153088 - 1	.127286	.568154	

Z = -84, A = 208

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₁	tanΔ ₋₁
.4	.309429 - 2	.106348 - 1	-.257120 - 2	.162834 1	.699359 - 2	.274807 - 1	-.364688 2
.6	.384067 - 1	.619272 - 1	-.149342 - 1	.829255	.363261 - 1	.143087	.960059 1
.8	.113145	.154752	-.371976 - 1	.622464	.815340 - 1	.322161	.102725 2
1.0	.195571	.273608	-.655153 - 1	.523038	.131397	.521084	.146817 2
1.2	.265106	.405555	-.966979 - 1	.463059	.180200	.717524	.258928 2
1.4	.317049	.542760	-.128821	.422326	.226006	.903844	.764064 2
1.6	.353462	.681019	-.160859	.392599	.268518	.107880 1	-.121066 3
1.8	.377923	.818255	-.192308	.369835	.308012	.124339 1	-.384110 2
2.0	.393675	.953543	-.222947	.351793	.344909	.139921 1	-.244386 2
2.2	.403228	.108656 1	-.252705	.337116	.379619	.154780 1	-.186928 2
2.4	.408409	.121728 1	-.281582	.324930	.412494	.169051 1	-.155693 2
2.6	.410517	.134585 1	-.309615	.314645	.443823	.182043 1	-.136101 2
2.8	.410470	.147244 1	-.336854	.305844	.473840	.196247 1	-.122682 2
3.0	.408917	.159727 1	-.363353	.298227	.502732	.209334 1	-.112925 2
3.2	.406315	.172054 1	-.389167	.291568	.530651	.222161 1	-.105515 2
3.4	.402994	.184247 1	-.414346	.285698	.557719	.234777 1	-.996996 1
3.6	.399187	.196322 1	-.438937	.280484	.584037	.247220 1	-.950151 1
3.8	.395064	.208297 1	-.462982	.275821	.609687	.259521 1	-.911617 1
4.0	.390745	.220187 1	-.486518	.271628	.634737	.271708 1	-.879369 1
4.2	.386320	.232006 1	-.509579	.267837	.659245	.283803 1	-.851988 1
4.4	.381853	.243766 1	-.532195	.264393	.683260	.295824 1	-.828450 1
4.6	.377390	.255478 1	-.554394	.261250	.706822	.307790 1	-.808000 1
4.8	.372963	.267152 1	-.576199	.258372	.729967	.319713 1	-.790068 1
5.0	.368597	.278798 1	-.597632	.255725	.752726	.331606 1	-.774215 1
5.2	.364307	.290424 1	-.618713	.253285	.775126	.343481 1	-.760099 1
5.4	.360107	.302038 1	-.639459	.251027	.797189	.355348 1	-.747449 1
5.6	.356002	.313648 1	-.659887	.248932	.818937	.367214 1	-.736048 1
5.8	.351998	.325259 1	-.680011	.246984	.840388	.379089 1	-.725717 1
6.0	.348096	.336878 1	-.699845	.245167	.861557	.390979 1	-.716313 1
6.2	.344297	.348511 1	-.719400	.243469	.882461	.402891 1	-.707715 1

Z = -84, A = 208

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	1
.4	.115184 - 3	.214403 - 4	-.288309 - 5	.120939	.122714 - 4	.864435 - 4	.169325	1
.6	.921456 - 3	.171667 - 3	-.230251 - 4	-.383020	.765314 - 4	.540421 - 3	.899859	
.8	.221341 - 2	.559374 - 3	-.747799 - 4	-.658143	.206071 - 3	.145972 - 2	.718211	
1.0	.345925 - 2	.123393 - 2	-.164322 - 3	-.843529	.393178 - 3	.279531 - 2	.644732	
1.2	.445780 - 2	.220659 - 2	-.292593 - 3	-.977317	.628300 - 3	.448512 - 2	.608711	
1.4	.520229 - 2	.347265 - 2	-.458352 - 3	-.107760	1 .904393 - 3	.648431 - 2	.589331	
1.6	.574149 - 2	.502276 - 2	-.659731 - 3	-.115486	1 .121677 - 2	.876430 - 2	.578400	
1.8	.612739 - 2	.684739 - 2	-.894846 - 3	-.121575	1 .156231 - 2	.113074 - 1	.572129	
2.0	.640191 - 2	.893826 - 2	-.116200 - 2	-.126466	1 .193889 - 2	.141025 - 1	.568579	
2.2	.659602 - 2	.112886 - 1	-.145971 - 2	-.130461	1 .234495 - 2	.171428 - 1	.566679	
2.4	.673191 - 2	.138929 - 1	-.178667 - 2	-.133773	1 .277930 - 2	.204236 - 1	.565809	
2.6	.682539 - 2	.167470 - 1	-.214175 - 2	-.136555	1 .324096 - 2	.239419 - 1	.565593	
2.8	.688773 - 2	.198473 - 1	-.252393 - 2	-.138919	1 .372909 - 2	.276955 - 1	.565797	
3.0	.692701 - 2	.231909 - 1	-.293228 - 2	-.140948	1 .424293 - 2	.316829 - 1	.566269	
3.2	.694911 - 2	.267756 - 1	-.336597 - 2	-.142706	1 .478180 - 2	.359030 - 1	.566911	
3.4	.695832 - 2	.305996 - 1	-.382419 - 2	-.144241	1 .534504 - 2	.403550 - 1	.567658	
3.6	.695782 - 2	.346612 - 1	-.430621 - 2	-.145593	1 .593204 - 2	.450380 - 1	.568466	
3.8	.694999 - 2	.389591 - 1	-.481131 - 2	-.146790	1 .654218 - 2	.499517 - 1	.569305	
4.0	.693661 - 2	.434922 - 1	-.533882 - 2	-.147858	1 .717489 - 2	.550956 - 1	.570155	
4.2	.691903 - 2	.482596 - 1	-.588810 - 2	-.148814	1 .782959 - 2	.604692 - 1	.571001	
4.4	.689829 - 2	.532604 - 1	-.645849 - 2	-.149677	1 .850571 - 2	.660724 - 1	.571835	
4.6	.687520 - 2	.584941 - 1	-.704940 - 2	-.150457	1 .920270 - 2	.719048 - 1	.572652	
4.8	.685037 - 2	.639599 - 1	-.766021 - 2	-.151167	1 .992001 - 2	.779663 - 1	.573445	
5.0	.682427 - 2	.696575 - 1	-.829035 - 2	-.151814	1 .106571 - 1	.842567 - 1	.574215	
5.2	.679730 - 2	.755863 - 1	-.893922 - 2	-.152407	1 .114134 - 1	.907758 - 1	.574958	
5.4	.676973 - 2	.817459 - 1	-.960626 - 2	-.152953	1 .121885 - 1	.975235 - 1	.575675	
5.6	.674181 - 2	.881361 - 1	-.102909 - 1	-.153456	1 .129817 - 1	.104500	.576365	
5.8	.671370 - 2	.947566 - 1	-.109926 - 1	-.153921	1 .137925 - 1	.111705	.577030	
6.0	.668557 - 2	.101607	-.117108 - 1	-.154352	1 .146205 - 1	.119138	.577669	
6.2	.665751 - 2	.108687	-.124449 - 1	-.154753	1 .154650 - 1	.126799	.578283	

Z = -85, A = 211

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.291617 - 2	.103997 - 1	-.254781 - 2	.169365 1	.685273 - 2	.265836 - 1	-.253761	2
.6	.374320 - 1	.614439 - 1	-.150151 - 1	.848641	.362023 - 1	.140778	.101377	2
.8	.111912	.154421	-.376134 - 1	.635356	.818719 - 1	.319360	.106611	2
1.0	.194886	.273727	-.664198 - 1	.533506	.132460	.518572	.153371	2
1.2	.265239	.406231	-.981559 - 1	.472262	.182060	.715631	.278736	2
1.4	.317907	.543979	-.130843	.430743	.228639	.902625	.967940	2
1.6	.354840	.682713	-.163427	.400475	.271866	.107819 1	-.901237	2
1.8	.379618	.820337	-.195394	.377314	.312011	.124329 1	-.345163	2
2.0	.395527	.955924	-.226522	.358966	.349501	.139951 1	-.227470	2
2.2	.405118	.108916 1	-.256739	.344045	.384753	.154841 1	-.176551	2
2.4	.410255	.122004 1	-.286049	.331661	.418128	.169136 1	-.148218	2
2.6	.412265	.134870 1	-.314492	.321210	.449924	.182946 1	-.130207	2
2.8	.412085	.147534 1	-.342120	.312270	.480379	.196362 1	-.117763	2
3.0	.410376	.160018 1	-.368993	.304533	.509688	.209457 1	-.108659	2
3.2	.407608	.172344 1	-.395166	.297770	.538007	.222291 1	-.101714	2
3.4	.404114	.184533 1	-.420693	.291809	.565460	.234911 1	-.962435	1
3.6	.400134	.196603 1	-.445622	.286515	.592152	.247356 1	-.918249	1
3.8	.395838	.208571 1	-.469997	.281782	.618168	.259660 1	-.881822	1
4.0	.391352	.220454 1	-.493857	.277525	.643579	.271849 1	-.851281	1
4.2	.386765	.232266 1	-.517238	.273676	.668443	.283946 1	-.825307	1
4.4	.382140	.244018 1	-.540171	.270180	.692810	.295972 1	-.802950	1
4.6	.377526	.255724 1	-.562683	.266990	.716724	.307942 1	-.783503	1
4.8	.372955	.267392 1	-.584801	.264069	.740220	.319871 1	-.766434	1
5.0	.368450	.279034 1	-.606547	.261383	.763331	.331772 1	-.751331	1
5.2	.364029	.290657 1	-.627941	.258906	.786084	.343657 1	-.737872	1
5.4	.359702	.302270 1	-.649001	.256615	.808504	.355536 1	-.725802	1
5.6	.355477	.313879 1	-.669745	.254489	.830611	.367417 1	-.714917	1
5.8	.351358	.325493 1	-.690187	.252512	.852425	.379309 1	-.705048	1
6.0	.347347	.337117 1	-.710342	.250669	.873962	.391220 1	-.696060	1
6.2	.343445	.348757 1	-.730221	.248947	.895238	.403156 1	-.687839	1

Z = -85, A = 211

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.107785 - 3	.209319 - 4	-.285048 - 5	.144356	.120677 - 4	.839755 - 4	.176213	1
.6	.888619 - 3	.169808 - 3	-.230655 - 4	-.364617	.764050 - 4	.532966 - 3	.920586	
.8	.216144 - 2	.556267 - 3	-.753121 - 4	-.639222	.207033 - 3	.144866 - 2	.732475	
1.0	.339905 - 2	.123027 - 2	-.165926 - 3	-.823488	.396261 - 3	.278284 - 2	.656822	
1.2	.439514 - 2	.220313 - 2	-.295873 - 3	-.956184	.634338 - 3	.447283 - 2	.619828	
1.4	.513931 - 2	.347000 - 2	-.463878 - 3	-.105552	.914039 - 3	.647312 - 2	.599949	
1.6	.567871 - 2	.502131 - 2	-.668023 - 3	-.113199	.123055 - 2	.875462 - 2	.588743	
1.8	.606478 - 2	.684732 - 2	-.906379 - 3	-.119221	.158067 - 2	.112993 - 1	.582316	
2.0	.633926 - 2	.893960 - 2	-.117721 - 2	-.124056	.196222 - 2	.140959 - 1	.578675	
2.2	.653310 - 2	.112913 - 1	-.147899 - 2	-.128005	.237361 - 2	.171373 - 1	.576726	
2.4	.666855 - 2	.138967 - 1	-.181041 - 2	-.131278	.281362 - 2	.204190 - 1	.575830	
2.6	.676145 - 2	.167516 - 1	-.217031 - 2	-.134026	.328125 - 2	.239376 - 1	.575605	
2.8	.682312 - 2	.198524 - 1	-.255764 - 2	-.136361	.377566 - 2	.276911 - 1	.575809	
3.0	.686168 - 2	.231961 - 1	-.297147 - 2	-.138364	.429607 - 2	.316778 - 1	.576288	
3.2	.688302 - 2	.267805 - 1	-.341095 - 2	-.140100	.484180 - 2	.358967 - 1	.576942	
3.4	.689146 - 2	.306036 - 1	-.387527 - 2	-.141616	.541217 - 2	.403469 - 1	.577703	
3.6	.689020 - 2	.346639 - 1	-.436368 - 2	-.142950	.600658 - 2	.450275 - 1	.578526	
3.8	.688160 - 2	.389599 - 1	-.487547 - 2	-.144132	.662440 - 2	.499382 - 1	.579381	
4.0	.686747 - 2	.434906 - 1	-.540995 - 2	-.145186	.726505 - 2	.550783 - 1	.580248	
4.2	.684917 - 2	.482550 - 1	-.596647 - 2	-.146130	.792795 - 2	.604477 - 1	.581111	
4.4	.682773 - 2	.532523 - 1	-.654438 - 2	-.146981	.861253 - 2	.660459 - 1	.581962	
4.6	.680395 - 2	.584818 - 1	-.714306 - 2	-.147751	.931824 - 2	.718727 - 1	.582795	
4.8	.677846 - 2	.639428 - 1	-.776192 - 2	-.148452	.100445 - 1	.779279 - 1	.583605	
5.0	.675173 - 2	.696349 - 1	-.840036 - 2	-.149091	.107908 - 1	.842113 - 1	.584390	
5.2	.672414 - 2	.755576 - 1	-.905779 - 2	-.149676	.115566 - 1	.907228 - 1	.585148	
5.4	.669599 - 2	.817105 - 1	-.973364 - 2	-.150214	.123414 - 1	.974622 - 1	.585880	
5.6	.666749 - 2	.880933 - 1	-.104273 - 1	-.150710	.131445 - 1	.104429	.586585	
5.8	.663885 - 2	.947057 - 1	-.111383 - 1	-.151169	.139656 - 1	.111624	.587263	
6.0	.661019 - 2	.101547	-.118661 - 1	-.151595	.148039 - 1	.119047	.587915	
6.2	.658162 - 2	.108618	-.126100 - 1	-.151990	.156592 - 1	.126698	.588542	

Z = -86, A = 212

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.275373 - 2	.101785 - 1	-.252693 - 2	.176343 1	.671950 - 2	.257371 - 1	-.193718 2
.6	.365535 - 1	.610188 - 1	-.151107 - 1	.868529	.361047 - 1	.138620	.107545 2
.8	.110908	.154230	-.380703 - 1	.648478	.822702 - 1	.316841	.110929 2
1.0	.194580	.274090	-.674019 - 1	.544130	.133628	.516489	.160751 2
1.2	.265884	.407267	-.997324 - 1	.481589	.184073	.714314	.302470 2
1.4	.319379	.545675	-.133025	.439267	.231472	.902120	.133128 3
1.6	.356902	.684996	-.166197	.408448	.275458	.107842 1	-.714798 2
1.8	.382042	.823114	-.198724	.384883	.316296	.124415 1	-.312848 2
2.0	.398133	.959103	-.230379	.366223	.354418	.140088 1	-.212505 2
2.2	.407775	.109266 1	-.261093	.351055	.390249	.155019 1	-.167121 2
2.4	.412872	.122378 1	-.290873	.338469	.424160	.169346 1	-.141327 2
2.6	.414781	.135262 1	-.319761	.327851	.456456	.183181 1	-.124725 2
2.8	.414461	.147939 1	-.347814	.318769	.487383	.196618 1	-.113160 2
3.0	.412587	.160432 1	-.375094	.310910	.517141	.209729 1	-.104649 2
3.2	.409641	.172764 1	-.401660	.304043	.545890	.222575 1	-.981292 1
3.4	.405963	.184955 1	-.427568	.297990	.573760	.235206 1	-.929765 1
3.6	.401796	.197026 1	-.452869	.292614	.600857	.247660 1	-.888035 1
3.8	.397317	.208994 1	-.477608	.287809	.627270	.259972 1	-.853558 1
4.0	.392650	.220876 1	-.501826	.283487	.653071	.272169 1	-.824599 1
4.2	.387887	.232686 1	-.525561	.279580	.678321	.284274 1	-.799935 1
4.4	.383094	.244437 1	-.548844	.276032	.703072	.296307 1	-.778678 1
4.6	.378316	.256141 1	-.571704	.272794	.727368	.308286 1	-.760167 1
4.8	.373589	.267809 1	-.594169	.269829	.751248	.320226 1	-.743904 1
5.0	.368936	.279451 1	-.616262	.267104	.774742	.332140 1	-.729502 1
5.2	.364372	.291075 1	-.638004	.264590	.797881	.344038 1	-.716658 1
5.4	.359909	.302691 1	-.659413	.262265	.820690	.355933 1	-.705132 1
5.6	.355554	.314305 1	-.680509	.260108	.843189	.367832 1	-.694731 1
5.8	.351311	.325925 1	-.701306	.258102	.865400	.379745 1	-.685296 1
6.0	.347182	.337557 1	-.721818	.256232	.887340	.391679 1	-.676699 1
6.2	.343167	.349208 1	-.742060	.254484	.909023	.403641 1	-.668831 1

Z = -86, A = 212

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.100930 - 3	.203773 - 4	-.281030 - 5	.168008	.118317 - 4	.813432 - 4	.183590	1
.6	.857604 - 3	.167497 - 3	-.230419 - 4	-.346381	.760531 - 4	.524118 - 3	.941876	
.8	.211236 - 2	.551627 - 3	-.756398 - 4	-.620572	.207389 - 3	.143362 - 2	.747008	
1.0	.334261 - 2	.122318 - 2	-.167089 - 3	-.803782	.398202 - 3	.276260 - 2	.669103	
1.2	.433690 - 2	.219352 - 2	-.298376 - 3	-.935431	.638573 - 3	.444798 - 2	.631105	
1.4	.508124 - 2	.345762 - 2	-.468199 - 3	-.103385	1 .921114 - 3	.644371 - 2	.610713	
1.6	.562123 - 2	.500574 - 2	-.674595 - 3	-.110955	1 .124090 - 2	.872024 - 2	.599224	
1.8	.600772 - 2	.682796 - 2	-.915595 - 3	-.116913	1 .159465 - 2	.112593 - 1	.592635	
2.0	.628233 - 2	.891572 - 2	-.118943 - 2	-.121695	1 .198015 - 2	.140494 - 1	.588902	
2.2	.647603 - 2	.112620 - 1	-.149455 - 2	-.125599	1 .239577 - 2	.170833 - 1	.586901	
2.4	.661112 - 2	.138612 - 1	-.182961 - 2	-.128833	1 .284028 - 2	.203563 - 1	.585980	
2.6	.670351 - 2	.167087 - 1	-.219345 - 2	-.131548	1 .331266 - 2	.238652 - 1	.585745	
2.8	.676454 - 2	.198011 - 1	-.258500 - 2	-.133855	1 .381205 - 2	.276078 - 1	.585950	
3.0	.680240 - 2	.231353 - 1	-.300333 - 2	-.135834	1 .433769 - 2	.315824 - 1	.586436	
3.2	.682299 - 2	.267091 - 1	-.344757 - 2	-.137548	1 .488887 - 2	.357878 - 1	.587101	
3.4	.683067 - 2	.305203 - 1	-.391691 - 2	-.139045	1 .546494 - 2	.402233 - 1	.587876	
3.6	.682862 - 2	.345675 - 1	-.441059 - 2	-.140363	1 .606525 - 2	.448879 - 1	.588715	
3.8	.681926 - 2	.380493 - 1	-.492790 - 2	-.141530	1 .668921 - 2	.497812 - 1	.589587	
4.0	.680437 - 2	.433644 - 1	-.546814 - 2	-.142570	1 .733622 - 2	.549028 - 1	.590470	
4.2	.678532 - 2	.481119 - 1	-.603067 - 2	-.143502	1 .800571 - 2	.602522 - 1	.591351	
4.4	.676316 - 2	.530911 - 1	-.661483 - 2	-.144342	1 .869710 - 2	.658290 - 1	.592219	
4.6	.673868 - 2	.583011 - 1	-.722001 - 2	-.145103	1 .940984 - 2	.716332 - 1	.593069	
4.8	.671251 - 2	.637413 - 1	-.784560 - 2	-.145794	1 .101434 - 1	.776643 - 1	.593895	
5.0	.668512 - 2	.694113 - 1	-.849100 - 2	-.146425	1 .108972 - 1	.839222 - 1	.594696	
5.2	.665690 - 2	.753105 - 1	-.915564 - 2	-.147003	1 .116707 - 1	.904069 - 1	.595470	
5.4	.662813 - 2	.814386 - 1	-.983893 - 2	-.147534	1 .124633 - 1	.971181 - 1	.596217	
5.6	.659905 - 2	.877952 - 1	-.105403 - 1	-.148023	1 .132746 - 1	.104056	.596936	
5.8	.656984 - 2	.943800 - 1	-.112592 - 1	-.148476	1 .141041 - 1	.111220	.597628	
6.0	.654064 - 2	.101193	-.119952 - 1	-.148896	1 .149511 - 1	.118610	.598294	
6.2	.651155 - 2	.108233	-.127475 - 1	-.149287	1 .158151 - 1	.126226	.598934	

Z = -87, A = 220

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.258930 - 2	.994148 - 2	-.249920 - 2	.183821 1	.657533 - 2	.248705 - 1	-.156091 2
.6	.355437 - 1	.604745 - 1	-.151646 - 1	.888944	.359333 - 1	.136240	.114690 2
.8	.109444	.153733	-.384257 - 1	.661838	.824999 - 1	.313764	.115750 2
1.0	.193443	.273920	-.682074 - 1	.554915	.134528	.513488	.169113 2
1.2	.265386	.407522	-.101049	.491043	.185722	.711744	.331397 2
1.4	.319477	.546343	-.134861	.447901	.233853	.900067	.216055 3
1.6	.357426	.686013	-.168532	.416520	.278517	.107685 1	-.590213 2
1.8	.382816	.824401	-.201529	.392543	.319971	.124298 1	-.285606 2
2.0	.399014	.960584	-.233624	.373567	.358652	.140004 1	-.199170 2
2.2	.408660	.109426 1	-.264747	.358148	.394993	.154960 1	-.158513 2
2.4	.413689	.122546 1	-.294910	.345358	.429374	.169307 1	-.134953 2
2.6	.415482	.135432 1	-.324158	.334569	.462107	.183157 1	-.119611 2
2.8	.415016	.148109 1	-.352553	.325344	.493446	.196606 1	-.108841 2
3.0	.412981	.160598 1	-.380158	.317362	.523594	.209728 1	-.100872 2
3.2	.409863	.172925 1	-.407036	.310388	.552718	.222583 1	-.947415 1
3.4	.406011	.185111 1	-.433245	.304242	.580950	.235223 1	-.898814 1
3.6	.401672	.197177 1	-.458839	.298784	.608400	.247687 1	-.859353 1
3.8	.397023	.209140 1	-.483864	.293906	.635159	.260010 1	-.826683 1
4.0	.392192	.221018 1	-.508364	.289519	.661302	.272219 1	-.799195 1
4.2	.387271	.232825 1	-.532376	.285554	.686892	.284339 1	-.775750 1
4.4	.382326	.244575 1	-.555935	.281952	.711982	.296390 1	-.755518 1
4.6	.377405	.256281 1	-.579071	.278667	.736617	.308390 1	-.737881 1
4.8	.372540	.267952 1	-.601811	.275658	.760837	.320354 1	-.722371 1
5.0	.367755	.279601 1	-.624180	.272893	.784675	.332295 1	-.708624 1
5.2	.363067	.291235 1	-.646200	.270342	.808161	.344226 1	-.696356 1
5.4	.358485	.302864 1	-.667890	.267983	.831321	.356157 1	-.685339 1
5.6	.354018	.314495 1	-.689269	.265795	.854178	.368097 1	-.675391 1
5.8	.349669	.326136 1	-.710354	.263760	.876752	.380056 1	-.666363 1
6.0	.345438	.337794 1	-.731159	.261863	.899062	.392041 1	-.658132 1
6.2	.341326	.349475 1	-.751698	.260090	.921124	.404060 1	-.650596 1

Z = -87, A = 220

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.943089 - 4	.200320 - 4	-.279575 - 5	.191924	.117122 - 4	.795663 - 4	.191513	1
.6	.825949 - 3	.166845 - 3	-.232269 - 4	-.328301	.764338 - 4	.520494 - 3	.963757	
.8	.206018 - 2	.552429 - 3	-.766556 - 4	-.602182	.209749 - 3	.143274 - 2	.761820	
1.0	.328043 - 2	.122817 - 2	-.169775 - 3	-.784397	.404004 - 3	.276963 - 2	.681583	
1.2	.427076 - 2	.220556 - 2	-.303599 - 3	-.915042	.649002 - 3	.446708 - 2	.642548	
1.4	.501367 - 2	.347942 - 2	-.476776 - 3	-.101258	.937112 - 3	.647801 - 2	.621626	
1.6	.555306 - 2	.503970 - 2	-.687276 - 3	-.108754	.126323 - 2	.877218 - 2	.609846	
1.8	.593914 - 2	.687624 - 2	-.933064 - 3	-.114650	.162399 - 2	.113308 - 1	.603092	
2.0	.621329 - 2	.898024 - 2	-.121231 - 2	-.119380	.201707 - 2	.141422 - 1	.599264	
2.2	.640643 - 2	.113445 - 1	-.152343 - 2	-.123240	.244081 - 2	.171989 - 1	.597210	
2.4	.654086 - 2	.139633 - 1	-.186502 - 2	-.126437	.289392 - 2	.204960 - 1	.596262	
2.6	.663252 - 2	.168319 - 1	-.223590 - 2	-.129121	.337538 - 2	.240302 - 1	.596017	
2.8	.669279 - 2	.199468 - 1	-.263497 - 2	-.131400	.388429 - 2	.277993 - 1	.596221	
3.0	.672985 - 2	.233049 - 1	-.306128 - 2	-.133355	.441987 - 2	.318016 - 1	.596715	
3.2	.674965 - 2	.269038 - 1	-.351392 - 2	-.135048	.498141 - 2	.360359 - 1	.597391	
3.4	.675653 - 2	.307415 - 1	-.399207 - 2	-.136527	.556822 - 2	.405013 - 1	.598180	
3.6	.675372 - 2	.348163 - 1	-.449497 - 2	-.137828	.617966 - 2	.451969 - 1	.599036	
3.8	.674360 - 2	.391268 - 1	-.502187 - 2	-.138981	.681511 - 2	.501223 - 1	.599924	
4.0	.672798 - 2	.436719 - 1	-.557207 - 2	-.140008	.747397 - 2	.552770 - 1	.600825	
4.2	.670822 - 2	.484505 - 1	-.614490 - 2	-.140929	.815564 - 2	.606605 - 1	.601724	
4.4	.668538 - 2	.534618 - 1	-.673971 - 2	-.141758	.885956 - 2	.662725 - 1	.602610	
4.6	.666025 - 2	.587051 - 1	-.735586 - 2	-.142509	.958515 - 2	.721128 - 1	.603476	
4.8	.663345 - 2	.641797 - 1	-.799273 - 2	-.143192	.103318 - 1	.781812 - 1	.604320	
5.0	.660547 - 2	.698851 - 1	-.864971 - 2	-.143814	.110991 - 1	.844774 - 1	.605137	
5.2	.657668 - 2	.758208 - 1	-.932622 - 2	-.144385	.118863 - 1	.910013 - 1	.605927	
5.4	.654736 - 2	.819864 - 1	-.100217 - 1	-.144909	.126931 - 1	.977527 - 1	.606689	
5.6	.651776 - 2	.883816 - 1	-.107355 - 1	-.145393	.135187 - 1	.104732	.607424	
5.8	.648804 - 2	.950060 - 1	-.114671 - 1	-.145840	.143627 - 1	.111938	.608130	
6.0	.645836 - 2	.101859	-.122159 - 1	-.146254	.152245 - 1	.119371	.608810	
6.2	.642881 - 2	.108942	-.129814 - 1	-.146640	.161037 - 1	.127032	.609463	

Z = -88, A = 224

p	F ₀	f ₁	g ₁	tanΔ ₁		f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.244288 - 2	.972470 - 2	-.247610 - 2	.191860	1	.644293 - 2	.240677 - 1	-.130306	2
.6	.346775 - 1	.600272 - 1	-.152459 - 1	.909910		.358108 - 1	.134093	.123058	2
.8	.108360	.153474	-.388544 - 1	.675443		.828423 - 1	.311156	.121159	2
1.0	.192953	.274166	-.691480 - 1	.565863		.135618	.511218	.178656	2
1.2	.265768	.408391	-.102571	.500627		.187643	.710162	.367385	2
1.4	.320630	.547823	-.136972	.456646		.236585	.899241	.594236	3
1.6	.359127	.688034	-.171215	.424692		.282000	.107672	1 -.501156	2
1.8	.384847	.826875	-.204752	.400295		.324141	.124346	1 -.262352	2
2.0	.401200	.963424	-.237354	.380998		.363447	.140102	1 -.187226	2
2.2	.410875	.109739	1 -.268954	.365323		.400361	.155100	1 -.150632	2
2.4	.415845	.122881	1 -.299565	.352325		.435273	.169480	1 -.129045	2
2.6	.417522	.135784	1 -.329238	.341364		.468501	.183359	1 -.114834	2
2.8	.416903	.148473	1 -.358037	.331993		.500307	.196832	1 -.104786	2
3.0	.414693	.160972	1 -.386029	.323886		.530902	.209975	1 -.973116	1
3.2	.411389	.173306	1 -.413281	.316804		.560454	.222850	1 -.915394	1
3.4	.407345	.185498	1 -.439853	.310563		.589102	.235508	1 -.869493	1
3.6	.402814	.197568	1 -.465801	.305023		.616958	.247991	1 -.832134	1
3.8	.397977	.209536	1 -.491174	.300070		.644117	.260332	1 -.801143	1
4.0	.392963	.221418	1 -.516016	.295618		.670654	.272561	1 -.775024	1
4.2	.387864	.233231	1 -.540367	.291593		.696637	.284702	1 -.752715	1
4.4	.382749	.244988	1 -.564263	.287938		.722118	.296776	1 -.733441	1
4.6	.377664	.256702	1 -.587736	.284604		.747145	.308801	1 -.716622	1
4.8	.372643	.268384	1 -.610813	.281550		.771760	.320793	1 -.701817	1
5.0	.367709	.280045	1 -.633521	.278744		.795996	.332766	1 -.688685	1
5.2	.362879	.291694	1 -.655881	.276156		.819884	.344731	1 -.676957	1
5.4	.358163	.303341	1 -.677916	.273763		.843451	.356700	1 -.666419	1
5.6	.353568	.314993	1 -.699643	.271543		.866721	.368683	1 -.656898	1
5.8	.349096	.326659	1 -.721081	.269478		.889715	.380689	1 -.648252	1
6.0	.344750	.338345	1 -.742244	.267553		.912453	.392726	1 -.640366	1
6.2	.340528	.350058	1 -.763146	.265755		.934950	.404801	1 -.633144	1

Z = -88, A = 224

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.882379 - 4	.195805 - 4	-.276608 - 5	.216132	.115264 - 4	.773832 - 4	.200049	1
.6	.796565 - 3	.165257 - 3	-.232868 - 4	-.310366	.763725 - 4	.513955 - 3	.986259	
.8	.201213 - 2	.550109 - 3	-.772674 - 4	-.584040	.210917 - 3	.142374 - 2	.776922	
1.0	.322402 - 2	.122621 - 2	-.171581 - 3	-.765320	.407545 - 3	.276094 - 2	.694266	
1.2	.421170 - 2	.220515 - 2	-.307267 - 3	-.895004	.655843 - 3	.446081 - 2	.654161	
1.4	.495414 - 2	.348156 - 2	-.482935 - 3	-.991698	.947970 - 3	.647553 - 2	.632693	
1.6	.549364 - 2	.504517 - 2	-.696499 - 3	-.106594	1 .127871 - 2	.877431 - 2	.620613	
1.8	.587980 - 2	.688560 - 2	-.945870 - 3	-.112430	1 .164456 - 2	.113380 - 1	.613688	
2.0	.615384 - 2	.899387 - 2	-.122918 - 2	-.117109	1 .204317 - 2	.141546 - 1	.609763	
2.2	.634666 - 2	.113626 - 1	-.154478 - 2	-.120927	1 .247282 - 2	.172165 - 1	.607654	
2.4	.648061 - 2	.139861 - 1	-.189129 - 2	-.124088	1 .293221 - 2	.205188 - 1	.606679	
2.6	.657166 - 2	.168594 - 1	-.226745 - 2	-.126741	1 .342027 - 2	.240581 - 1	.606423	
2.8	.663123 - 2	.199789 - 1	-.267218 - 2	-.128993	1 .393613 - 2	.278321 - 1	.606628	
3.0	.666754 - 2	.233416 - 1	-.310448 - 2	-.130926	1 .447896 - 2	.318390 - 1	.607128	
3.2	.668657 - 2	.269449 - 1	-.356345 - 2	-.132599	1 .504805 - 2	.360776 - 1	.607016	
3.4	.669267 - 2	.307868 - 1	-.404827 - 2	-.134060	1 .564271 - 2	.405469 - 1	.608620	
3.6	.668907 - 2	.348656 - 1	-.455813 - 2	-.135345	1 .626229 - 2	.452463 - 1	.609492	
3.8	.667818 - 2	.391799 - 1	-.509229 - 2	-.136484	1 .690616 - 2	.501751 - 1	.610398	
4.0	.666180 - 2	.437285 - 1	-.565006 - 2	-.137499	1 .757371 - 2	.553328 - 1	.611317	
4.2	.664132 - 2	.485103 - 1	-.623074 - 2	-.138408	1 .826436 - 2	.607190 - 1	.612234	
4.4	.661776 - 2	.535246 - 1	-.683367 - 2	-.139227	1 .897751 - 2	.663334 - 1	.613137	
4.6	.659195 - 2	.587705 - 1	-.745822 - 2	-.139968	1 .971260 - 2	.721756 - 1	.614022	
4.8	.656449 - 2	.642474 - 1	-.810376 - 2	-.140642	1 .104691 - 1	.782456 - 1	.614882	
5.0	.653587 - 2	.699547 - 1	-.876968 - 2	-.141257	1 .112463 - 1	.845429 - 1	.615717	
5.2	.650647 - 2	.758921 - 1	-.945537 - 2	-.141821	1 .120438 - 1	.910676 - 1	.616523	
5.4	.647657 - 2	.820589 - 1	-.101603 - 1	-.142338	1 .128610 - 1	.978194 - 1	.617301	
5.6	.644640 - 2	.884550 - 1	-.108838 - 1	-.142816	1 .136974 - 1	.104798	.618050	
5.8	.641615 - 2	.950799 - 1	-.116253 - 1	-.143257	1 .145524 - 1	.112004	.618772	
6.0	.638595 - 2	.101934	-.123843 - 1	-.143667	1 .154255 - 1	.119437	.619465	
6.2	.635590 - 2	.109015	-.131602 - 1	-.144047	1 .163161 - 1	.127096	.620132	

Z = -89, A = 226

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.230941 - 2	.952107 - 2	-.245549 - 2	.200529 1	.631792 - 2	.233107 - 1	-.111539 2
.6	.339005 - 1	.596376 - 1	-.153424 - 1	.931454	.357156 - 1	.132090	.132980 2
.8	.107501	.153356	-.393264 - 1	.689301	.832487 - 1	.308829	.127263 2
1.0	.192845	.274663	-.701707 - 1	.576980	.136820	.509381	.189634 2
1.2	.266674	.409630	-.104218	.510343	.189729	.709170	.413334 2
1.4	.322416	.549794	-.139254	.465505	.239532	.899153	-.754543 3
1.6	.361536	.690665	-.174112	.432966	.285748	.107747 1	-.434358 2
1.8	.387633	.830072	-.208233	.408141	.328620	.124493 1	-.242278 2
2.0	.404170	.967093	-.241384	.388516	.368594	.140311 1	-.176469 2
2.2	.413885	.110145 1	-.273501	.372583	.406123	.155361 1	-.143392 2
2.4	.418800	.123318 1	-.304599	.359373	.441603	.169786 1	-.123555 2
2.6	.420356	.136248 1	-.334735	.348237	.475365	.183703 1	-.110363 2
2.8	.419575	.148958 1	-.363975	.338717	.507675	.197209 1	-.100971 2
3.0	.417178	.161475 1	-.392392	.330484	.538751	.210381 1	-.939507 1
3.2	.413675	.173824 1	-.420054	.323292	.568767	.223284 1	-.885083 1
3.4	.409426	.186029 1	-.447025	.316956	.597866	.235968 1	-.841679 1
3.6	.404689	.198111 1	-.473363	.311331	.626164	.248476 1	-.806269 1
3.8	.399649	.210091 1	-.499119	.306303	.653757	.260842 1	-.776839 1
4.0	.394436	.221985 1	-.524340	.301784	.680725	.273098 1	-.751997 1
4.2	.389147	.233810 1	-.549068	.297699	.707135	.285267 1	-.730749 1
4.4	.383847	.245580 1	-.573338	.293989	.733044	.297370 1	-.712370 1
4.6	.378586	.257309 1	-.597185	.290605	.758500	.309427 1	-.696317 1
4.8	.373396	.269008 1	-.620638	.287507	.783546	.321454 1	-.682174 1
5.0	.368302	.280687 1	-.643722	.284659	.808217	.333463 1	-.669619 1
5.2	.363318	.292358 1	-.666463	.282034	.832545	.345469 1	-.658399 1
5.4	.358457	.304029 1	-.688882	.279605	.856559	.357483 1	-.648310 1
5.6	.353722	.315708 1	-.710998	.277353	.880282	.369514 1	-.639191 1
5.8	.349118	.327404 1	-.732829	.275258	.903737	.381572 1	-.630906 1
6.0	.344646	.339123 1	-.754392	.273306	.926944	.393666 1	-.623346 1
6.2	.340304	.350874 1	-.775702	.271482	.949920	.405803 1	-.616418 1

Z = -89, A = 226

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.826154 - 4	.190876 - 4	-.272946 - 5	.240666	.113114 - 4	.750553 - 4	.209280	1
.6	.768812 - 3	.163248 - 3	-.232858 - 4	-.292565	.760978 - 4	.506134 - 3	.100941	1
.8	.196677 - 2	.546347 - 3	-.776821 - 4	-.566135	.211503 - 3	.141102 - 2	.792323	
1.0	.317116 - 2	.122101 - 2	-.172959 - 3	-.746539	.409983 - 3	.274492 - 2	.707159	
1.2	.415685 - 2	.219889 - 2	-.310181 - 3	-.875304	.660937 - 3	.444266 - 2	.665948	
1.4	.489932 - 2	.347446 - 2	-.487923 - 3	-.971182	.956347 - 3	.645578 - 2	.643918	
1.6	.543930 - 2	.503722 - 2	-.704047 - 3	-.104473	1 .129084 - 2	.875298 - 2	.631530	
1.8	.582581 - 2	.687661 - 2	-.956420 - 3	-.110251	1 .166087 - 2	.113148 - 1	.624429	
2.0	.609993 - 2	.898350 - 2	-.124313 - 2	-.114882	1 .206401 - 2	.141290 - 1	.620403	
2.2	.629256 - 2	.113504 - 1	-.156251 - 2	-.118658	1 .249850 - 2	.171880 - 1	.618238	
2.4	.642611 - 2	.139714 - 1	-.191312 - 2	-.121785	1 .296303 - 2	.204865 - 1	.617234	
2.6	.651660 - 2	.168416 - 1	-.229372 - 2	-.124408	1 .345651 - 2	.240212 - 1	.616967	
2.8	.657551 - 2	.199573 - 1	-.270319 - 2	-.126634	1 .397804 - 2	.277897 - 1	.617172	
3.0	.661110 - 2	.233153 - 1	-.314053 - 2	-.128544	1 .452682 - 2	.317902 - 1	.617680	
3.2	.662935 - 2	.269132 - 1	-.360483 - 2	-.130198	1 .510210 - 2	.360216 - 1	.618380	
3.4	.663466 - 2	.307489 - 1	-.409524 - 2	-.131642	1 .570319 - 2	.404827 - 1	.619199	
3.6	.663028 - 2	.348205 - 1	-.461097 - 2	-.132912	1 .632945 - 2	.451729 - 1	.620087	
3.8	.661860 - 2	.391268 - 1	-.515127 - 2	-.134037	1 .698024 - 2	.500914 - 1	.621012	
4.0	.660146 - 2	.436664 - 1	-.571542 - 2	-.135039	1 .765495 - 2	.552379 - 1	.621949	
4.2	.658022 - 2	.484383 - 1	-.630274 - 2	-.135937	1 .835298 - 2	.606119 - 1	.622884	
4.4	.655594 - 2	.534416 - 1	-.691257 - 2	-.136747	1 .907376 - 2	.662130 - 1	.623806	
4.6	.652942 - 2	.586756 - 1	-.754425 - 2	-.137479	1 .981670 - 2	.720410 - 1	.624708	
4.8	.650128 - 2	.641396 - 1	-.819717 - 2	-.138145	1 .105812 - 1	.780956 - 1	.625587	
5.0	.647201 - 2	.698330 - 1	-.887072 - 2	-.138752	1 .113668 - 1	.843765 - 1	.626438	
5.2	.644197 - 2	.757554 - 1	-.956428 - 2	-.139308	1 .121729 - 1	.908837 - 1	.627261	
5.4	.641146 - 2	.819063 - 1	-.102773 - 1	-.139820	1 .129988 - 1	.976170 - 1	.628055	
5.6	.638071 - 2	.882853 - 1	-.110091 - 1	-.140291	1 .138442 - 1	.104576	.628820	
5.8	.634990 - 2	.948922 - 1	-.117592 - 1	-.140727	1 .147084 - 1	.111761	.629557	
6.0	.631916 - 2	.101727	-.125271 - 1	-.141131	1 .155909 - 1	.119172	.630265	
6.2	.628859 - 2	.108788	-.133120 - 1	-.141507	1 .164912 - 1	.126809	.630946	

Z = -90, A = 228

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₁	g ₁	tanΔ ₁
.4	.218469 - 2	.932400 - 2	-.243536 - 2	.209911 1	.619630 - 2	.225835 - 1	-.972698 1
.6	.331625 - 1	.592670 - 1	-.154419 - 1	.953607	.356261 - 1	.130153	.144922 2
.8	.106716	.153283	-.398108 - 1	.703423	.836701 - 1	.306601	.134197 2
1.0	.192858	.275241	-.712205 - 1	.588269	.138055	.507689	.202384 2
1.2	.267747	.410992	-.105909	.520196	.191868	.708374	.473984 2
1.4	.324405	.551933	-.141597	.474480	.242556	.899317	-.227480 3
1.6	.364173	.693506	-.177087	.441343	.289595	.107853 1	-.382424 2
1.8	.390660	.833520	-.211807	.416083	.333220	.124677 1	-.224779 2
2.0	.407384	.971054	-.245522	.396125	.373882	.140562 1	-.166734 2
2.2	.417140	.110584 1	-.278168	.379927	.412044	.155670 1	-.136719 2
2.4	.421993	.123793 1	-.309768	.366503	.448111	.170145 1	-.118442 2
2.6	.423422	.136753 1	-.340378	.355189	.482424	.184105 1	-.106171 2
2.8	.422471	.149488 1	-.370073	.345519	.515257	.197650 1	-.973773 1
3.0	.419879	.162028 1	-.398927	.337157	.546832	.210859 1	-.907730 1
3.2	.416166	.174396 1	-.427012	.329854	.577331	.223795 1	-.856350 1
3.4	.411702	.186619 1	-.454395	.323420	.606899	.236511 1	-.815258 1
3.6	.406751	.198719 1	-.481136	.317710	.635657	.249051 1	-.781660 1
3.8	.401499	.210716 1	-.507289	.312606	.663704	.261451 1	-.753684 1
4.0	.396081	.222627 1	-.532904	.308019	.691123	.273741 1	-.730032 1
4.2	.390592	.234471 1	-.558022	.303873	.717982	.285945 1	-.709777 1
4.4	.385101	.246261 1	-.582682	.300108	.744341	.298087 1	-.692237 1
4.6	.379656	.258011 1	-.606920	.296674	.770250	.310184 1	-.676901 1
4.8	.374291	.269733 1	-.630764	.293530	.795751	.322254 1	-.663379 1
5.0	.369030	.281439 1	-.654244	.290641	.820883	.334311 1	-.651366 1
5.2	.363888	.293139 1	-.677384	.287976	.845679	.346368 1	-.640623 1
5.4	.358875	.304842 1	-.700207	.285513	.870166	.358437 1	-.630959 1
5.6	.353997	.316557 1	-.722732	.283227	.894372	.370528 1	-.622217 1
5.8	.349257	.328292 1	-.744979	.281103	.918319	.382651 1	-.614272 1
6.0	.344654	.340055 1	-.766965	.279122	.942027	.394814 1	-.607019 1
6.2	.340189	.351854 1	-.788706	.277271	.965515	.407027 1	-.600370 1

Z = -90, A = 228

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.773570 - 4	.186075 - 4	-.269303 - 5	.265559	.110990 - 4	.727976 - 4	.219297	1
.6	.742131 - 3	.161272 - 3	-.232831 - 4	-.274886	.758175 - 4	.498450 - 3	.103326	1
.8	.192277 - 2	.542651 - 3	-.780944 - 4	-.548456	.212076 - 3	.139848 - 2	.808037	
1.0	.311975 - 2	.121593 - 2	-.174338 - 3	-.728042	.412410 - 3	.272917 - 2	.720269	
1.2	.410351 - 2	.219282 - 2	-.313105 - 3	-.855929	.666030 - 3	.442488 - 2	.677916	
1.4	.484607 - 2	.346763 - 2	-.492933 - 3	-.951022	.964733 - 3	.643650 - 2	.655306	
1.6	.538655 - 2	.502966 - 2	-.711635 - 3	-.102390	1 .130302 - 2	.873228 - 2	.642600	
1.8	.577344 - 2	.686814 - 2	-.967026 - 3	-.108112	1 .167724 - 2	.112924 - 1	.635318	
2.0	.604765 - 2	.897378 - 2	-.125715 - 2	-.112695	1 .208492 - 2	.141044 - 1	.631188	
2.2	.624010 - 2	.113390 - 1	-.158032 - 2	-.116432	1 .252428 - 2	.171605 - 1	.628966	
2.4	.637325 - 2	.139576 - 1	-.193507 - 2	-.119525	1 .299397 - 2	.204554 - 1	.627932	
2.6	.646319 - 2	.168249 - 1	-.232012 - 2	-.122119	1 .349288 - 2	.239857 - 1	.627653	
2.8	.652142 - 2	.199370 - 1	-.273435 - 2	-.124320	1 .402012 - 2	.277490 - 1	.627858	
3.0	.655627 - 2	.232906 - 1	-.317675 - 2	-.126209	1 .457484 - 2	.317434 - 1	.628374	
3.2	.657376 - 2	.268832 - 1	-.364638 - 2	-.127843	1 .515632 - 2	.359676 - 1	.629086	
3.4	.657828 - 2	.307128 - 1	-.414240 - 2	-.129271	1 .576386 - 2	.404207 - 1	.629920	
3.6	.657309 - 2	.347775 - 1	-.466401 - 2	-.130526	1 .639681 - 2	.451019 - 1	.630826	
3.8	.656063 - 2	.390758 - 1	-.521044 - 2	-.131637	1 .705452 - 2	.500105 - 1	.631768	
4.0	.654271 - 2	.436066 - 1	-.578099 - 2	-.132628	1 .773638 - 2	.551460 - 1	.632724	
4.2	.652072 - 2	.483688 - 1	-.637495 - 2	-.133516	1 .844180 - 2	.605079 - 1	.633678	
4.4	.649570 - 2	.533614 - 1	-.699167 - 2	-.134315	1 .917019 - 2	.660960 - 1	.634619	
4.6	.646847 - 2	.585837 - 1	-.763049 - 2	-.135039	1 .992098 - 2	.719099 - 1	.635540	
4.8	.643965 - 2	.640351 - 1	-.829079 - 2	-.135696	1 .106936 - 1	.779494 - 1	.636436	
5.0	.640971 - 2	.697148 - 1	-.897195 - 2	-.136297	1 .114875 - 1	.842142 - 1	.637305	
5.2	.637904 - 2	.756225 - 1	-.967337 - 2	-.136846	1 .123020 - 1	.907042 - 1	.638146	
5.4	.634793 - 2	.817576 - 1	-.103945 - 1	-.137351	1 .131368 - 1	.974192 - 1	.638956	
5.6	.631659 - 2	.881199 - 1	-.111346 - 1	-.137817	1 .139911 - 1	.104359	.639737	
5.8	.628521 - 2	.947090 - 1	-.118933 - 1	-.138248	1 .148645 - 1	.111524	.640489	
6.0	.625393 - 2	.101525	-.126699 - 1	-.138647	1 .157565 - 1	.118913	.641212	
6.2	.622284 - 2	.108566	-.134639 - 1	-.139018	1 .166664 - 1	.126527	.641907	

Z = -91, A = 229

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.206964 - 2	.913648 - 2	-.241675 - 2	.220103 1	.608000 - 2	.218920 - 1	-.860566	1
.6	.324862 - 1	.589354 - 1	-.155513 - 1	.976398	.355543 - 1	.128319	.159558	2
.8	.106085	.153306	-.403254 - 1	.717816	.841350 - 1	.304568	.142132	2
1.0	.193136	.275995	-.723299 - 1	.599737	.139370	.506300	.217355	2
1.2	.269189	.412618	-.107693	.530187	.194129	.707994	.557651	2
1.4	.326844	.554424	-.144068	.483573	.245742	.900008	-.132819	3
1.6	.367314	.696785	-.180222	.449827	.293643	.108022 1	-.340910	2
1.8	.394226	.837490	-.215573	.424123	.338058	.124935 1	-.209398	2
2.0	.411154	.975618	-.249881	.403825	.379443	.140896 1	-.157885	2
2.2	.420956	.111091 1	-.283088	.387359	.418271	.156071 1	-.130552	2
2.4	.425747	.124343 1	-.315216	.373716	.454958	.170604 1	-.113670	2
2.6	.427042	.137340 1	-.346330	.362221	.489853	.184616 1	-.102233	2
2.8	.425911	.150109 1	-.376506	.352398	.523238	.198208 1	-.939865	1
3.0	.423111	.162677 1	-.405824	.343906	.555343	.211461 1	-.877651	1
3.2	.419177	.175073 1	-.434358	.336490	.586354	.224438 1	-.829084	1
3.4	.414486	.187321 1	-.462180	.329958	.616422	.237196 1	-.790139	1
3.6	.409306	.199445 1	-.489352	.324160	.645671	.249776 1	-.758225	1
3.8	.403829	.211465 1	-.515930	.318980	.674203	.262217 1	-.731605	1
4.0	.399192	.223402 1	-.541966	.314323	.702104	.274549 1	-.709067	1
4.2	.392492	.235271 1	-.567503	.310115	.729445	.286798 1	-.689740	1
4.4	.386798	.247088 1	-.592583	.306294	.756286	.298986 1	-.672987	1
4.6	.381158	.258867 1	-.617240	.302810	.782680	.311133 1	-.658325	1
4.8	.375608	.270620 1	-.641508	.299619	.808672	.323256 1	-.645386	1
5.0	.370170	.282360 1	-.665414	.296688	.834301	.335369 1	-.633883	1
5.2	.364859	.294097 1	-.688985	.293985	.859600	.347487 1	-.623590	1
5.4	.359686	.305840 1	-.712244	.291485	.884600	.359620 1	-.614324	1
5.6	.354656	.317599 1	-.735213	.289167	.909327	.371781 1	-.605939	1
5.8	.349770	.329383 1	-.757911	.287011	.933806	.383979 1	-.598314	1
6.0	.345030	.341199 1	-.780357	.285002	.958057	.396223 1	-.591351	1
6.2	.340433	.353055 1	-.802565	.283125	.982101	.408523 1	-.584965	1

Z = -91, A = 229

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.724628 - 4	.181164 - 4	-.265358 - 5	.290847	.108753 - 4	.705165 - 4	.230213	1
.6	.716713 - 3	.159124 - 3	-.232506 - 4	-.257321	.754346 - 4	.490263 - 3	.105782	1
.8	.188069 - 2	.538319 - 3	-.784098 - 4	-.530994	.212362 - 3	.138432 - 2	.824074	
1.0	.307076 - 2	.120939 - 2	-.175507 - 3	-.709818	.414294 - 3	.271014 - 2	.733604	
1.2	.405298 - 2	.218410 - 2	-.315662 - 3	-.836866	.670265 - 3	.440170 - 2	.690070	
1.4	.479591 - 2	.345659 - 2	-.497375 - 3	-.931204	.971897 - 3	.640934 - 2	.666861	
1.6	.533712 - 2	.501595 - 2	-.718410 - 3	-.100344	1	.131356 - 2	.870082 - 2	.653827
1.8	.572453 - 2	.685124 - 2	-.976538 - 3	-.106011	1	.169153 - 2	.112560 - 1	.646359
2.0	.599893 - 2	.895300 - 2	-.126976 - 2	-.110549	1	.210328 - 2	.140623 - 1	.642122
2.2	.619128 - 2	.113135 - 1	-.159637 - 2	-.114247	1	.254698 - 2	.171117 - 1	.639840
2.4	.632407 - 2	.139266 - 1	-.195486 - 2	-.117307	1	.302126 - 2	.203989 - 1	.638776
2.6	.641347 - 2	.167874 - 1	-.234395 - 2	-.119873	1	.352503 - 2	.239203 - 1	.638485
2.8	.647107 - 2	.198918 - 1	-.276250 - 2	-.122051	1	.405734 - 2	.276735 - 1	.638690
3.0	.650519 - 2	.232367 - 1	-.320947 - 2	-.123918	1	.461737 - 2	.316567 - 1	.639213
3.2	.652190 - 2	.268196 - 1	-.368394 - 2	-.125534	1	.520437 - 2	.358684 - 1	.639938
3.4	.652562 - 2	.306382 - 1	-.418505 - 2	-.126945	1	.581766 - 2	.403078 - 1	.640788
3.6	.651963 - 2	.346907 - 1	-.471198 - 2	-.128186	1	.645656 - 2	.449739 - 1	.641711
3.8	.650637 - 2	.389757 - 1	-.526399 - 2	-.129285	1	.712044 - 2	.498662 - 1	.642672
4.0	.648766 - 2	.434919 - 1	-.584034 - 2	-.130264	1	.780869 - 2	.549841 - 1	.643647
4.2	.646490 - 2	.482381 - 1	-.644034 - 2	-.131141	1	.852071 - 2	.603271 - 1	.644620
4.4	.643914 - 2	.532136 - 1	-.706333 - 2	-.131931	1	.925591 - 2	.658949 - 1	.645580
4.6	.641119 - 2	.584175 - 1	-.770865 - 2	-.132646	1	.100137 - 1	.716872 - 1	.646520
4.8	.638166 - 2	.638490 - 1	-.837568 - 2	-.133296	1	.107936 - 1	.777037 - 1	.647435
5.0	.635106 - 2	.695077 - 1	-.906379 - 2	-.133889	1	.115949 - 1	.839441 - 1	.648322
5.2	.631974 - 2	.753929 - 1	-.977239 - 2	-.134432	1	.124171 - 1	.904084 - 1	.649180
5.4	.628799 - 2	.815043 - 1	-.105009 - 1	-.134931	1	.132597 - 1	.970963 - 1	.650008
5.6	.625606 - 2	.878415 - 1	-.112487 - 1	-.135391	1	.141221 - 1	.104008	.650805
5.8	.622410 - 2	.944041 - 1	-.120152 - 1	-.135817	1	.150038 - 1	.111143	.651573
6.0	.619226 - 2	.101192	-.127999 - 1	-.136211	1	.159043 - 1	.118501	.652311
6.2	.616065 - 2	.108204	-.136022 - 1	-.136578	1	.168229 - 1	.126082	.653021

Z = -92, A = 231

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.196062 - 2	.895204 - 2	-.239763 - 2	.231222 1	.596509 - 2	.212212 - 1	-.770139	1
.6	.318225 - 1	.586032 - 1	-.156576 - 1	.999861	.354778 - 1	.126509	.177898	2
.8	.105451	.153325	-.408371 - 1	.732490	.845914 - 1	.302546	.151294	2
1.0	.193401	.276745	-.734395 - 1	.611389	.140680	.504916	.235168	2
1.2	.270616	.414245	-.109481	.540322	.196392	.707623	.680395	2
1.4	.329269	.556920	-.146546	.492788	.248942	.900722	-.932449	2
1.6	.370440	.700078	-.183369	.458419	.297715	.108195	1 -.306980	2
1.8	.397770	.841483	-.219353	.432262	.342931	.125199	1 -.195776	2
2.0	.414896	.980215	-.254258	.411618	.385051	.141241	1 -.149808	2
2.2	.424737	.111603 1	-.288026	.394878	.424556	.156486	1 -.124836	2
2.4	.429456	.124900 1	-.320685	.381014	.461874	.171082	1 -.109206	2
2.6	.430607	.137937 1	-.352304	.369334	.497363	.185152	1 -.985278	1
2.8	.429287	.150741 1	-.382964	.359357	.531313	.198796	1 -.907824	1
3.0	.426272	.163341 1	-.412748	.350732	.563961	.212099	1 -.849140	1
3.2	.422108	.175767 1	-.441736	.343202	.595499	.225125	1 -.803178	1
3.4	.417181	.188045 1	-.470000	.336569	.626082	.237931	1 -.766226	1
3.6	.411767	.200198 1	-.497608	.330683	.655839	.250561	1 -.735883	1
3.8	.406059	.212249 1	-.524617	.325425	.684874	.263052	1 -.710529	1
4.0	.400198	.224216 1	-.551081	.320699	.713276	.275436	1 -.689032	1
4.2	.394282	.236117 1	-.577046	.316428	.741119	.287739	1 -.670576	1
4.4	.388381	.247969 1	-.602554	.312550	.768466	.299986	1 -.654560	1
4.6	.382543	.259786 1	-.627642	.309014	.795370	.312195	1 -.640531	1
4.8	.376804	.271580 1	-.652344	.305777	.821878	.324384	1 -.628141	1
5.0	.371186	.283364 1	-.676690	.302803	.848031	.336569	1 -.617118	1
5.2	.365704	.295148 1	-.700707	.300060	.873064	.348762	1 -.607248	1
5.4	.360369	.306944 1	-.724420	.297524	.899407	.360978	1 -.598359	1
5.6	.355184	.318760 1	-.747850	.295172	.924690	.373226	1 -.590310	1
5.8	.350152	.330606 1	-.771019	.292986	.949737	.385518	1 -.582988	1
6.0	.345272	.342489 1	-.793945	.290948	.974570	.397864	1 -.576297	1
6.2	.340544	.354418 1	-.816645	.289044	.999210	.410271	1 -.570160	1

Z = -92, A = 231

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.678618 - 4	.176617 - 4	-.261765 - 5	.316567	.106690 - 4	.683971 - 4	.242161	1
.6	.692041 - 3	.157220 - 3	-.232451 - 4	-.239857	.751457 - 4	.482863 - 3	.108315	1
.8	.183926 - 2	.534763 - 3	-.788184 - 4	-.513737	.212913 - 3	.137219 - 2	.840447	
1.0	.302214 - 2	.120456 - 2	-.176891 - 3	-.691856	.416704 - 3	.269495 - 2	.747170	
1.2	.400255 - 2	.217844 - 2	-.318609 - 3	-.818104	.675365 - 3	.438471 - 2	.702414	
1.4	.474567 - 2	.345038 - 2	-.502436 - 3	-.911716	.980326 - 3	.639113 - 2	.678588	
1.6	.528747 - 2	.500926 - 2	-.726082 - 3	-.983327	.132582 - 2	.868150 - 2	.665216	
1.8	.567530 - 2	.684391 - 2	-.987265 - 3	-.103948	1	.170803 - 2	.112353 - 1	.657556
2.0	.594982 - 2	.894473 - 2	-.128395 - 2	-.108441	1	.212437 - 2	.140398 - 1	.653209
2.2	.614200 - 2	.113039 - 1	-.161438 - 2	-.112102	1	.257298 - 2	.170867 - 1	.650866
2.4	.627440 - 2	.139150 - 1	-.197705 - 2	-.115130	1	.305247 - 2	.203707 - 1	.649771
2.6	.636324 - 2	.167732 - 1	-.237063 - 2	-.117669	1	.356170 - 2	.238882 - 1	.649467
2.8	.642017 - 2	.198744 - 1	-.279397 - 2	-.119823	1	.409974 - 2	.276366 - 1	.649672
3.0	.645355 - 2	.232153 - 1	-.324603 - 2	-.121670	1	.466576 - 2	.316141 - 1	.650202
3.2	.646947 - 2	.267933 - 1	-.372587 - 2	-.123268	1	.525899 - 2	.358192 - 1	.650940
3.4	.647239 - 2	.306062 - 1	-.423261 - 2	-.124663	1	.587875 - 2	.402510 - 1	.651805
3.6	.646559 - 2	.346523 - 1	-.476544 - 2	-.125890	1	.652435 - 2	.449087 - 1	.652746
3.8	.645152 - 2	.389299 - 1	-.532360 - 2	-.126977	1	.719516 - 2	.497915 - 1	.653726
4.0	.643203 - 2	.434377 - 1	-.590636 - 2	-.127945	1	.789058 - 2	.548989 - 1	.654721
4.2	.640850 - 2	.481748 - 1	-.651301 - 2	-.128812	1	.860998 - 2	.602304 - 1	.655714
4.4	.638199 - 2	.531400 - 1	-.714289 - 2	-.129593	1	.935279 - 2	.657857 - 1	.656694
4.6	.635332 - 2	.583327 - 1	-.779535 - 2	-.130300	1	.101184 - 1	.715645 - 1	.657654
4.8	.632310 - 2	.637521 - 1	-.846975 - 2	-.130942	1	.109063 - 1	.775665 - 1	.658588
5.0	.629183 - 2	.693977 - 1	-.916547 - 2	-.131528	1	.117159 - 1	.837914 - 1	.659493
5.2	.625986 - 2	.752688 - 1	-.988190 - 2	-.132065	1	.125466 - 1	.902391 - 1	.660369
5.4	.622750 - 2	.813650 - 1	-.106185 - 1	-.132558	1	.133980 - 1	.969093 - 1	.661214
5.6	.619497 - 2	.876860 - 1	-.113746 - 1	-.133013	1	.142693 - 1	.103802	.662028
5.8	.616245 - 2	.942314 - 1	-.121496 - 1	-.133433	1	.151602 - 1	.110917	.662812
6.0	.613006 - 2	.101001	-.129431 - 1	-.133823	1	.160700 - 1	.118254	.663566
6.2	.609792 - 2	.107994	-.137544 - 1	-.134185	1	.169982 - 1	.125814	.664291

Z = -93, A = 235

p	F ₀	f ₁	g ₁	tanΔ ₁		f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.185587 - 2	.876746 - 2	-.237698 - 2	.243408	1	.584968 - 2	.205639 - 1	-.695680	1
.6	.311471 - 1	.582492 - 1	-.157539 - 1	.102403	1	.353854 - 1	.124683	.201533	2
.8	.104735	.153286	-.413279 - 1	.747456		.850118 - 1	.300441	.161979	2
1.0	.193503	.277396	-.745169 - 1	.623228		.141938	.503383	.256692	2
1.2	.271816	.415730	-.111225	.550602		.198596	.707054	.877743	2
1.4	.331420	.559237	-.148969	.502126		.252075	.901204	-.715193	2
1.6	.373257	.703156	-.186447	.467121		.301718	.108343	1 -.278743	2
1.8	.400981	.845232	-.223052	.440502		.347733	.125438	1 -.183632	2
2.0	.418283	.984546	-.258540	.419506		.390587	.141561	1 -.142410	2
2.2	.428145	.112087	1 -.292857	.402488		.430771	.156878	1 -.119525	2
2.4	.432780	.125428	1 -.326036	.388397		.468723	.171540	1 -.105023	2
2.6	.433776	.138504	1 -.358150	.376531		.504810	.185670	1 -.950357	1
2.8	.432260	.151345	1 -.389284	.366396		.539332	.199373	1 -.877506	1
3.0	.429022	.163980	1 -.419526	.357637		.572531	.212732	1 -.822082	1
3.2	.424624	.176439	1 -.448961	.349990		.604605	.225815	1 -.778535	1
3.4	.419459	.188750	1 -.477663	.343256		.635715	.238678	1 -.743438	1
3.6	.413808	.200937	1 -.505702	.337281		.665992	.251366	1 -.714560	1
3.8	.407868	.213023	1 -.533140	.331943		.695546	.263918	1 -.690391	1
4.0	.401783	.225028	1 -.560031	.327146		.724468	.276367	1 -.669869	1
4.2	.395650	.236970	1 -.586425	.322812		.752833	.288740	1 -.652230	1
4.4	.389542	.248865	1 -.612364	.318877		.780708	.301060	1 -.636907	1
4.6	.383508	.260729	1 -.637888	.315289		.808147	.313347	1 -.623473	1
4.8	.377581	.272576	1 -.663032	.312005		.835200	.325621	1 -.611599	1
5.0	.371785	.284416	1 -.687826	.308987		.861907	.337896	1 -.601029	1
5.2	.366135	.296263	1 -.712300	.306205		.888306	.350187	1 -.591558	1
5.4	.360639	.308126	1 -.736479	.303632		.914430	.362507	1 -.583023	1
5.6	.355302	.320016	1 -.760386	.301246		.940307	.374868	1 -.575292	1
5.8	.350126	.331942	1 -.784043	.299028		.965964	.387280	1 -.568255	1
6.0	.345110	.343913	1 -.807469	.296961		.991425	.399755	1 -.561823	1
6.2	.340252	.355936	1 -.830683	.295030		.101671	1 .412301	1 -.555920	1

Z = -93, A = 235

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.635153 - 4	.172626 - 4	-.258809 - 5	.342759	.104918 - 4	.665102 - 4	.255303	1
.6	.667862 - 3	.155741 - 3	-.232932 - 4	-.222486	.750410 - 4	.476799 - 3	.110928	1
.8	.179785 - 2	.532616 - 3	-.794123 - 4	-.496676	.213989 - 3	.136369 - 2	.857169	
1.0	.297283 - 2	.120289 - 2	-.178697 - 3	-.674146	.420157 - 3	.268683 - 2	.760975	
1.2	.395086 - 2	.217849 - 2	-.322323 - 3	-.799632	.682170 - 3	.437917 - 2	.714956	
1.4	.469370 - 2	.345321 - 2	-.508708 - 3	-.892545	.991240 - 3	.638963 - 2	.690493	
1.6	.523576 - 2	.501569 - 2	-.735502 - 3	-.963556	.134144 - 2	.868488 - 2	.676772	
1.8	.562378 - 2	.685452 - 2	-.100036 - 2	-.101920	1	.172886 - 2	.112440 - 1	.668914
2.0	.589826 - 2	.895990 - 2	-.130121 - 2	-.106371	1	.215084 - 2	.140540 - 1	.664453
2.2	.609014 - 2	.113238 - 1	-.163624 - 2	-.109995	1	.260547 - 2	.171065 - 1	.662047
2.4	.622207 - 2	.139399 - 1	-.200390 - 2	-.112993	1	.309133 - 2	.203960 - 1	.660919
2.6	.631029 - 2	.168030 - 1	-.240287 - 2	-.115505	1	.360727 - 2	.239188 - 1	.660603
2.8	.636650 - 2	.199091 - 1	-.283195 - 2	-.117636	1	.415233 - 2	.276722 - 1	.660807
3.0	.639911 - 2	.232548 - 1	-.329010 - 2	-.119463	1	.472567 - 2	.316545 - 1	.661345
3.2	.641423 - 2	.268375 - 1	-.377634 - 2	-.121044	1	.532652 - 2	.358642 - 1	.662095
3.4	.641633 - 2	.306549 - 1	-.428981 - 2	-.122424	1	.595417 - 2	.403002 - 1	.662977
3.6	.640872 - 2	.347051 - 1	-.482967 - 2	-.123638	1	.660795 - 2	.449616 - 1	.663937
3.8	.639386 - 2	.389866 - 1	-.539515 - 2	-.124712	1	.728722 - 2	.498479 - 1	.664936
4.0	.637359 - 2	.434981 - 1	-.598551 - 2	-.125669	1	.799134 - 2	.549584 - 1	.665951
4.2	.634930 - 2	.482385 - 1	-.660004 - 2	-.126526	1	.871972 - 2	.602927 - 1	.666965
4.4	.632206 - 2	.532067 - 1	-.723807 - 2	-.127299	1	.947176 - 2	.658503 - 1	.667965
4.6	.629268 - 2	.584021 - 1	-.789894 - 2	-.127997	1	.102469 - 1	.716310 - 1	.668944
4.8	.626179 - 2	.638238 - 1	-.858201 - 2	-.128632	1	.110445 - 1	.776344 - 1	.669898
5.0	.622986 - 2	.694712 - 1	-.928665 - 2	-.129212	1	.118640 - 1	.838604 - 1	.670822
5.2	.619727 - 2	.753439 - 1	-.100123 - 1	-.129742	1	.127050 - 1	.903087 - 1	.671717
5.4	.616431 - 2	.814413 - 1	-.107582 - 1	-.130230	1	.135667 - 1	.969792 - 1	.672579
5.6	.613121 - 2	.877630 - 1	-.115240 - 1	-.130679	1	.144488 - 1	.103872	.673411
5.8	.609813 - 2	.943087 - 1	-.123089 - 1	-.131095	1	.153505 - 1	.110986	.674211
6.0	.606522 - 2	.101078	-.131125 - 1	-.131480	1	.162715 - 1	.118322	.674981
6.2	.603257 - 2	.108071	-.139341 - 1	-.131838	1	.172111 - 1	.125880	.675722

Z = -94, A = 238

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁
.4	.175929 - 2	.859202 - 2	-.235791 - 2	.256831 1	.573961 - 2	.199398 - 1	-.633307 1
.6	.305303 - 1	.579349 - 1	-.158607 - 1	.104895 1	.353124 - 1	.122962	.233117 2
.8	.104172	.153347	-.418511 - 1	.762724	.854812 - 1	.298541	.174589 2
1.0	.193878	.278231	-.756586 - 1	.635262	.143288	.502175	.283199 2
1.2	.273402	.417494	-.113071	.561032	.200937	.706938	.124701 3
1.4	.334044	.561930	-.151530	.511591	.255394	.902266	-.577966 2
1.6	.376605	.706706	-.189701	.475935	.305953	.108562 1	-.254889 2
1.8	.404757	.849546	-.226962	.448844	.352812	.125759 1	-.172744 2
2.0	.422254	.989534	-.263069	.427489	.396443	.141974 1	-.135611 2
2.2	.432142	.112645 1	-.297970	.410188	.437347	.157375 1	-.114581 2
2.4	.436689	.126040 1	-.331701	.395868	.475974	.172114 1	-.101097 2
2.6	.437523	.139165 1	-.364342	.383811	.512699	.186317 1	-.917405 1
2.8	.435797	.152050 1	-.395984	.373516	.547832	.200089 1	-.848789 1
3.0	.432325	.164728 1	-.426719	.364620	.581623	.213515 1	-.796380 1
3.2	.427677	.177230 1	-.456633	.356855	.614274	.226666 1	-.755078 1
3.4	.422259	.189583 1	-.485808	.350019	.645953	.239597 1	-.721709 1
3.6	.416356	.201814 1	-.514314	.343953	.676794	.252356 1	-.694201 1
3.8	.410170	.213945 1	-.542217	.338535	.706911	.264982 1	-.671140 1
4.0	.403845	.225998 1	-.569573	.333666	.736397	.277509 1	-.651533 1
4.2	.397483	.237991 1	-.596433	.329267	.765332	.289963 1	-.634661 1
4.4	.391155	.249941 1	-.622843	.325274	.793783	.302370 1	-.619990 1
4.6	.384912	.261864 1	-.648844	.321633	.821808	.314751 1	-.607117 1
4.8	.378786	.273774 1	-.674472	.318301	.849457	.327124 1	-.595730 1
5.0	.372800	.285684 1	-.699759	.315239	.876774	.339505 1	-.585586 1
5.2	.366970	.297606 1	-.724736	.312416	.903797	.351910 1	-.576492 1
5.4	.361304	.309550 1	-.749429	.309806	.930560	.364351 1	-.568292 1
5.6	.355806	.321528 1	-.773862	.307386	.957093	.376842 1	-.560861 1
5.8	.350478	.333549 1	-.798059	.305137	.983425	.389394 1	-.554094 1
6.0	.345317	.345621 1	-.822039	.303040	.100958 1	.402017 1	-.547907 1
6.2	.340321	.357755 1	-.845823	.301081	.103558 1	.414721 1	-.542226 1

Z = -94, A = 238

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.594718 - 4	.168506 - 4	-.255548 - 5	.369466	.103031 - 4	.645909 - 4	.269836	1
.6	.644833 - 3	.154084 - 3	-.233114 - 4	-.205197	.748331 - 4	.470210 - 3	.113627	1
.8	.175824 - 2	.529819 - 3	-.799091 - 4	-.479802	.214778 - 3	.135353 - 2	.874255	
1.0	.292585 - 2	.119973 - 2	-.180294 - 3	-.656677	.423066 - 3	.267536 - 2	.775028	
1.2	.390187 - 2	.217584 - 2	-.325670 - 3	-.781438	.688118 - 3	.436816 - 2	.727701	
1.4	.464474 - 2	.345176 - 2	-.514414 - 3	-.873681	.100093 - 2	.638011 - 2	.702579	
1.6	.518728 - 2	.501587 - 2	-.744113 - 3	-.944113	.135544 - 2	.867734 - 2	.688500	
1.8	.557564 - 2	.685658 - 2	-.101237 - 2	-.999263	.174762 - 2	.112386 - 1	.680437	
2.0	.585017 - 2	.896388 - 2	-.131706 - 2	-.104336	1	.217474 - 2	.140506 - 1	.675859
2.2	.604184 - 2	.113296 - 1	-.165633 - 2	-.107926	1	.263488 - 2	.171047 - 1	.673387
2.4	.617333 - 2	.139473 - 1	-.202862 - 2	-.110893	1	.312656 - 2	.203954 - 1	.672226
2.6	.626097 - 2	.168117 - 1	-.243255 - 2	-.113380	1	.364862 - 2	.239190 - 1	.671896
2.8	.631648 - 2	.199187 - 1	-.286693 - 2	-.115489	1	.420008 - 2	.276726 - 1	.672100
3.0	.634832 - 2	.232649 - 1	-.333069 - 2	-.117297	1	.478010 - 2	.316545 - 1	.672646
3.2	.636264 - 2	.268476 - 1	-.382285 - 2	-.118861	1	.538790 - 2	.358632 - 1	.673409
3.4	.636392 - 2	.306644 - 1	-.434252 - 2	-.120226	1	.602275 - 2	.402976 - 1	.674308
3.6	.635550 - 2	.347135 - 1	-.488886 - 2	-.121426	1	.668398 - 2	.449568 - 1	.675286
3.8	.633982 - 2	.389934 - 1	-.546109 - 2	-.122489	1	.737094 - 2	.498402 - 1	.676306
4.0	.631876 - 2	.435026 - 1	-.605847 - 2	-.123435	1	.808301 - 2	.549470 - 1	.677342
4.2	.629370 - 2	.482401 - 1	-.668028 - 2	-.124283	1	.881957 - 2	.602769 - 1	.678376
4.4	.626572 - 2	.532048 - 1	-.732584 - 2	-.125047	1	.958003 - 2	.658295 - 1	.679397
4.6	.623562 - 2	.583959 - 1	-.799449 - 2	-.125738	1	.103638 - 1	.716045 - 1	.680396
4.8	.620403 - 2	.638127 - 1	-.868558 - 2	-.126366	1	.111703 - 1	.776014 - 1	.681370
5.0	.617144 - 2	.694546 - 1	-.939848 - 2	-.126938	1	.119990 - 1	.838202 - 1	.682314
5.2	.613821 - 2	.753210 - 1	-.101326 - 1	-.127463	1	.128492 - 1	.902605 - 1	.683227
5.4	.610464 - 2	.814114 - 1	-.108873 - 1	-.127945	1	.137205 - 1	.969222 - 1	.684108
5.6	.607094 - 2	.877254 - 1	-.116620 - 1	-.128389	1	.146123 - 1	.103805	.684957
5.8	.603730 - 2	.942627 - 1	-.124561 - 1	-.128800	1	.155241 - 1	.110909	.685775
6.0	.600385 - 2	.101023	-.132691 - 1	-.129181	1	.164553 - 1	.118235	.686561
6.2	.597068 - 2	.108006	-.141004 - 1	-.129535	1	.174053 - 1	.125781	.687318

Z = -95, A = 239

p	$\mathbb{E}_0$	f_1	$\mathbb{E}_1$	$\tan\Delta_1$	f_{-1}	$\mathbb{E}_{-1}$	$\tan\Delta_{-1}$	
.4	.167157 - 2	.842858 - 2	-.234145 - 2	.271698 1	.563675 - 2	.193538 - 1	-.580301 1	
.6	.299937 - 1	.576817 - 1	-.159855 - 1	.107465 1	.352718 - 1	.121384	.277435 2	
.8	.103846	.153567	-.424275 - 1	.778305	.860319 - 1	.296946	.189683 2	
1.0	.194688	.279356	-.769024 - 1	.647495	.144784	.501463	.316613 2	
1.2	.275606	.419695	-.115074	.571616	.203494	.707515	.218504 3	
1.4	.337427	.565209	-.154305	.521186	.258999	.904214	-.483473 2	
1.6	.380811	.710989	-.193226	.484864	.310541	.108887 1	-.234480 2	
1.8	.409450	.854734	-.231199	.457292	.358308	.126204 1	-.162930 2	
2.0	.427174	.995532	-.267978	.435571	.402776	.142527 1	-.129344 2	
2.2	.437102	.113317 1	-.303514	.417980	.444458	.158027 1	-.109967 2	
2.4	.441560	.126778 1	-.337849	.403427	.483815	.172857 1	-.974067 1	
2.6	.442223	.139964 1	-.371068	.391176	.521233	.187146 1	-.886271 1	
2.8	.440274	.152906 1	-.403267	.380718	.557032	.201001 1	-.821559 1	
3.0	.436547	.165640 1	-.434543	.371683	.591467	.214508 1	-.771945 1	
3.2	.431631	.178195 1	-.464987	.363798	.624759	.227740 1	-.732730 1	
3.4	.425938	.190603 1	-.494683	.356857	.657051	.240753 1	-.700975 1	
3.6	.419762	.202888 1	-.523706	.350699	.688511	.253596 1	-.674747 1	
3.8	.413308	.215077 1	-.552124	.345199	.719246	.266309 1	-.652726 1	
4.0	.406724	.227189 1	-.579997	.340257	.749354	.278926 1	-.633978 1	
4.2	.400113	.239245 1	-.607377	.335793	.778916	.291477 1	-.617828 1	
4.4	.393546	.251262 1	-.634312	.331741	.808003	.303985 1	-.603771 1	
4.6	.387074	.263256 1	-.660844	.328047	.836675	.316472 1	-.591426 1	
4.8	.380731	.275242 1	-.687012	.324665	.864984	.328958 1	-.580498 1	
5.0	.374540	.287234 1	-.712850	.321559	.892974	.341461 1	-.570757 1	
5.2	.368514	.299243 1	-.738389	.318695	.920687	.353994 1	-.562019 1	
5.4	.362662	.311282 1	-.763657	.316048	.948159	.366573 1	-.554137 1	
5.6	.356988	.323361 1	-.788679	.313593	.975420	.379210 1	-.546989 1	
5.8	.351493	.335490 1	-.813481	.311310	.100250 1	.391918 1	-.540479 1	
6.0	.346173	.347680 1	-.838082	.309184	.102943 1	.404707 1	-.534523 1	
6.2	.341027	.359939 1	-.862504	.307197	.105622 1	.417588 1	-.529053 1	

Z = -95, A = 239

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.557286 - 4	.164082 - 4	-.251718 - 5	.396734	.100917 - 4	.625717 - 4	.286004	1
.6	.623114 - 3	.152075 - 3	-.232742 - 4	-.187980	.744362 - 4	.462578 - 3	.116415	1
.8	.172099 - 2	.525767 - 3	-.802196 - 4	-.463106	.215026 - 3	.134017 - 2	.891719	
1.0	.288212 - 2	.119370 - 2	-.181479 - 3	-.639440	.424928 - 3	.265747 - 2	.789338	
1.2	.385688 - 2	.216796 - 2	-.328283 - 3	-.763513	.692387 - 3	.434660 - 2	.740656	
1.4	.460034 - 2	.344198 - 2	-.518973 - 3	-.855113	.100821 - 2	.635514 - 2	.714854	
1.6	.514376 - 2	.500394 - 2	-.751081 - 3	-.924986	.136619 - 2	.864873 - 2	.700403	
1.8	.553276 - 2	.684203 - 2	-.102216 - 2	-.979662	.176222 - 2	.112058 - 1	.692130	
2.0	.580755 - 2	.894609 - 2	-.133003 - 2	-.102336	1	.219351 - 2	.140128 - 1	.687432
2.2	.599915 - 2	.113079 - 1	-.167283 - 2	-.105891	1	.265809 - 2	.170611 - 1	.684892
2.4	.613030 - 2	.139207 - 1	-.204895 - 2	-.108830	1	.315447 - 2	.203449 - 1	.683696
2.6	.621740 - 2	.167793 - 1	-.245701 - 2	-.111292	1	.368146 - 2	.238605 - 1	.683352
2.8	.627225 - 2	.198796 - 1	-.289579 - 2	-.113380	1	.423809 - 2	.276051 - 1	.683555
3.0	.630334 - 2	.232179 - 1	-.336420 - 2	-.115169	1	.482349 - 2	.315767 - 1	.684109
3.2	.631686 - 2	.267916 - 1	-.386127 - 2	-.116717	1	.543688 - 2	.357739 - 1	.684886
3.4	.631732 - 2	.305984 - 1	-.438608 - 2	-.118068	1	.607753 - 2	.401955 - 1	.685802
3.6	.630806 - 2	.346364 - 1	-.493781 - 2	-.119255	1	.674477 - 2	.448408 - 1	.686799
3.8	.629156 - 2	.389038 - 1	-.551566 - 2	-.120306	1	.743795 - 2	.497089 - 1	.687839
4.0	.626969 - 2	.433994 - 1	-.611888 - 2	-.121242	1	.815643 - 2	.547992 - 1	.688096
4.2	.624384 - 2	.481221 - 1	-.674676 - 2	-.122081	1	.889960 - 2	.601113 - 1	.689952
4.4	.621508 - 2	.530707 - 1	-.739861 - 2	-.122836	1	.966687 - 2	.656448 - 1	.690994
4.6	.618423 - 2	.582445 - 1	-.807377 - 2	-.123520	1	.104577 - 1	.713993 - 1	.692014
4.8	.615193 - 2	.636427 - 1	-.877159 - 2	-.124141	1	.112714 - 1	.773744 - 1	.693008
5.0	.611864 - 2	.692646 - 1	-.949144 - 2	-.124707	1	.121074 - 1	.835701 - 1	.693973
5.2	.608474 - 2	.751098 - 1	-.102327 - 1	-.125226	1	.129653 - 1	.899859 - 1	.694905
5.4	.605053 - 2	.811776 - 1	-.109948 - 1	-.125702	1	.138445 - 1	.966219 - 1	.695805
5.6	.601622 - 2	.874678 - 1	-.117771 - 1	-.126142	1	.147443 - 1	.103478	.696672
5.8	.598199 - 2	.939799 - 1	-.125790 - 1	-.126548	1	.156643 - 1	.110553	.697508
6.0	.594797 - 2	.100714	-.134001 - 1	-.126925	1	.166039 - 1	.117849	.698311
6.2	.591426 - 2	.107669	-.142396 - 1	-.127275	1	.175625 - 1	.125364	.699084

Z = -96, A = 243

p	F ₀	f ₁	g ₁	tanΔ ₁		f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.158575 - 2	.826168 - 2	-.232251 - 2	.288267	1	.553164 - 2	.187734 - 1	-.534701	1
.6	.294201 - 1	.573863 - 1	-.160938 - 1	.110118	1	.352053 - 1	.119754	.344082	2
.8	.103356	.153676	-.429656 - 1	.794212		.865236 - 1	.295187	.208057	2
1.0	.195185	.280290	-.780835 - 1	.659935		.146192	.500474	.360003	2
1.2	.277373	.421622	-.116988	.582358		.205942	.707723	.939102	3
1.4	.340280	.568137	-.156966	.530913		.262478	.905726	-.414464	2
1.6	.384417	.714853	-.196610	.493911		.314993	.109165	1 - .216825	2
1.8	.413494	.859446	-.235270	.465847		.363660	.126599	1 - .154041	2
2.0	.431408	.100101	1 - .272698	.443752		.408962	.143031	1 - .123549	2
2.2	.441349	.113934	1 - .308848	.425867		.451423	.158633	1 - .105652	2
2.4	.445702	.127460	1 - .343769	.411076		.491515	.173558	1 - .939305	1
2.6	.446180	.140706	1 - .377548	.398628		.529635	.187940	1 - .856805	1
2.8	.444000	.153707	1 - .410290	.388005		.566109	.201886	1 - .795699	1
3.0	.440015	.166498	1 - .442095	.378828		.601205	.215485	1 - .748678	1
3.2	.434828	.179112	1 - .473060	.370822		.635138	.228809	1 - .711408	1
3.4	.428861	.191580	1 - .503272	.363774		.668084	.241919	1 - .681160	1
3.6	.422413	.203928	1 - .532810	.357523		.700189	.254862	1 - .656132	1
3.8	.415695	.216183	1 - .561744	.351940		.731573	.267681	1 - .635086	1
4.0	.408855	.228366	1 - .590136	.346924		.762337	.280410	1 - .617146	1
4.2	.401999	.240498	1 - .618042	.342394		.792566	.293079	1 - .601675	1
4.4	.395198	.252597	1 - .645512	.338282		.822333	.305713	1 - .588196	1
4.6	.388504	.264679	1 - .672590	.334534		.851700	.318335	1 - .576349	1
4.8	.381950	.276761	1 - .699315	.331103		.880721	.330966	1 - .565855	1
5.0	.375559	.288855	1 - .725725	.327951		.909445	.343622	1 - .556495	1
5.2	.369344	.300976	1 - .751851	.325046		.937912	.356320	1 - .548094	1
5.4	.363314	.313135	1 - .777723	.322360		.966161	.369075	1 - .540511	1
5.6	.357470	.325344	1 - .803368	.319870		.994225	.381901	1 - .533632	1
5.8	.351814	.337613	1 - .828812	.317555		.102214	1 .394809	1 - .527364	1
6.0	.346344	.349953	1 - .854077	.315398		.104992	1 .407812	1 - .521627	1
6.2	.341054	.362374	1 - .879185	.313383		.107760	1 .420922	1 - .516357	1

Z = -96, A = 243

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.521717 - 4	.160365 - 4	-.248778 - 5	.424613	.991992 - 5	.608395 - 4	.304111	1
.6	.601590 - 3	.150653 - 3	-.233157 - 4	-.170827	.743075 - 4	.456764 - 3	.119299	1
.8	.168308 - 2	.523705 - 3	-.808041 - 4	-.446580	.216050 - 3	.133192 - 2	.909577	
1.0	.283664 - 2	.119217 - 2	-.183288 - 3	-.622426	.428333 - 3	.264961 - 2	.803912	
1.2	.380920 - 2	.216824 - 2	-.332032 - 3	-.745846	.699180 - 3	.434140 - 2	.753827	
1.4	.455254 - 2	.344516 - 2	-.525327 - 3	-.836829	.101917 - 2	.635409 - 2	.727322	
1.6	.509632 - 2	.501086 - 2	-.760639 - 3	-.906164	.130193 - 2	.865270 - 2	.712489	
1.8	.548558 - 2	.685328 - 2	-.103546 - 2	-.960382	.178324 - 2	.112153 - 1	.703998	
2.0	.576037 - 2	.896206 - 2	-.134756 - 2	-.100369	1	.222024 - 2	.140279 - 1	.699175
2.2	.595171 - 2	.113288 - 1	-.169502 - 2	-.103892	1	.269091 - 2	.170819 - 1	.696566
2.4	.608238 - 2	.139467 - 1	-.207621 - 2	-.106803	1	.319373 - 2	.203713 - 1	.695334
2.6	.616886 - 2	.168104 - 1	-.248972 - 2	-.109241	1	.372750 - 2	.238923 - 1	.694975
2.8	.622298 - 2	.199156 - 1	-.293430 - 2	-.111308	1	.429121 - 2	.276420 - 1	.695177
3.0	.625329 - 2	.232588 - 1	-.340886 - 2	-.113079	1	.488398 - 2	.316184 - 1	.695739
3.2	.626599 - 2	.268373 - 1	-.391239 - 2	-.114611	1	.550503 - 2	.358202 - 1	.696530
3.4	.626562 - 2	.306485 - 1	-.444398 - 2	-.115947	1	.615362 - 2	.402460 - 1	.697463
3.6	.625553 - 2	.346907 - 1	-.500278 - 2	-.117122	1	.682907 - 2	.448951 - 1	.698480
3.8	.623822 - 2	.389621 - 1	-.558799 - 2	-.118162	1	.753072 - 2	.497666 - 1	.699541
4.0	.621554 - 2	.434613 - 1	-.619884 - 2	-.119089	1	.825792 - 2	.548600 - 1	.700620
4.2	.618892 - 2	.481872 - 1	-.683463 - 2	-.119918	1	.901008 - 2	.601747 - 1	.701697
4.4	.615942 - 2	.531388 - 1	-.749465 - 2	-.120666	1	.978657 - 2	.657104 - 1	.702761
4.6	.612785 - 2	.583151 - 1	-.817824 - 2	-.121342	1	.105868 - 1	.714666 - 1	.703803
4.8	.609485 - 2	.637155 - 1	-.888473 - 2	-.121956	1	.114103 - 1	.774431 - 1	.704819
5.0	.606090 - 2	.693392 - 1	-.961350 - 2	-.122516	1	.122563 - 1	.836396 - 1	.705803
5.2	.602637 - 2	.751857 - 1	-.103639 - 1	-.123029	1	.131243 - 1	.900559 - 1	.706756
5.4	.599155 - 2	.812546 - 1	-.111354 - 1	-.123501	1	.140139 - 1	.966918 - 1	.707675
5.6	.595666 - 2	.875453 - 1	-.119274 - 1	-.123935	1	.149243 - 1	.103547	.708561
5.8	.592187 - 2	.940575 - 1	-.127392 - 1	-.124337	1	.158552 - 1	.110622	.709414
6.0	.588731 - 2	.100791	-.135703 - 1	-.124709	1	.168058 - 1	.117916	.710235
6.2	.585309 - 2	.107745	-.144201 - 1	-.125056	1	.177758 - 1	.125429	.711024

Z = -97, A = 245

p	$\mathcal{E}_0$	f_1	g_1	$\tan\Delta_1$		f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.150789 - 2	.810654 - 2	-.230623 - 2	.306858	1	.543378 - 2	.182296 - 1	-.495057	1
.6	.289250 - 1	.571532 - 1	-.162209 - 1	.112859	1	.351734 - 1	.118271	.455531	2
.8	.103106	.153950	-.435599 - 1	.810457		.871037 - 1	.293746	.230891	2
1.0	.196133	.281528	-.793734 - 1	.672586		.147760	.500012	.418567	2
1.2	.279786	.424011	-.119071	.593261		.208628	.708677	-.397526	3
1.4	.343930	.571688	-.159858	.540776		.266275	.908199	-.361886	2
1.6	.388923	.719498	-.200287	.503077		.319838	.109559	1 - .201410	2
1.8	.418501	.865095	-.239695	.474510		.369479	.127131	1 - .145956	2
2.0	.436639	.100757	1 - .277831	.452035		.415686	.143690	1 - .118178	2
2.2	.446606	.114675	1 - .314653	.433850		.458994	.159411	1 - .101610	2
2.4	.450850	.128279	1 - .350216	.418816		.499887	.174450	1 - .906525	1
2.6	.451133	.141600	1 - .384614	.406168		.538774	.188941	1 - .828894	1
2.8	.448705	.154674	1 - .417955	.395376		.575991	.202995	1 - .771123	1
3.0	.444441	.167537	1 - .450347	.386056		.611813	.216703	1 - .726513	1
3.2	.438961	.180224	1 - .481890	.377925		.646463	.230138	1 - .691058	1
3.4	.432696	.192766	1 - .512677	.370769		.680122	.243361	1 - .662220	1
3.6	.425954	.205193	1 - .542789	.364423		.712942	.256423	1 - .638317	1
3.8	.418948	.217529	1 - .572300	.358756		.745047	.269365	1 - .618188	1
4.0	.411830	.229798	1 - .601275	.353665		.776542	.282225	1 - .601008	1
4.2	.404707	.242022	1 - .629772	.349068		.807514	.295031	1 - .586176	1
4.4	.397651	.254219	1 - .657844	.344895		.838040	.307812	1 - .573244	1
4.6	.390715	.266406	1 - .685536	.341091		.868184	.320590	1 - .561868	1
4.8	.383931	.278600	1 - .712890	.337610		.898003	.333386	1 - .551783	1
5.0	.377321	.290816	1 - .739945	.334412		.927548	.346219	1 - .542783	1
5.2	.370900	.303067	1 - .766734	.331465		.956861	.359106	1 - .534701	1
5.4	.364674	.315365	1 - .793289	.328741		.985984	.372061	1 - .527402	1
5.6	.358646	.327724	1 - .819639	.326215		.101495	1 .385100	1 - .520778	1
5.8	.352815	.340154	1 - .845810	.323867		.104380	1 .398237	1 - .514739	1
6.0	.347178	.352667	1 - .871828	.321679		.107255	1 .411483	1 - .509211	1
6.2	.341732	.365273	1 - .897714	.319636		.110123	1 .424852	1 - .504130	1

Z = -97, A = 245

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.488800 - 4	.156353 - 4	-.245288 - 5	.453156	.972641 - 5	.590112 - 4	.324540	1
.6	.581298 - 3	.148888 - 3	-.233027 - 4	-.153726	.739937 - 4	.449936 - 3	.122284	1
.8	.164743 - 2	.520413 - 3	-.812041 - 4	-.430214	.216541 - 3	.132054 - 2	.927844	
1.0	.279434 - 2	.118782 - 2	-.184689 - 3	-.605625	.430702 - 3	.263545 - 2	.818760	
1.2	.376544 - 2	.216337 - 2	-.335051 - 3	-.728428	.704307 - 3	.432584 - 2	.767222	
1.4	.450924 - 2	.344015 - 2	-.530540 - 3	-.818819	.102773 - 2	.633783 - 2	.739990	
1.6	.505381 - 2	.500584 - 2	-.768562 - 3	-.887636	.139445 - 2	.863592 - 2	.724761	
1.8	.544363 - 2	.684816 - 2	-.104655 - 2	-.941412	.180013 - 2	.111978 - 1	.716046	
2.0	.571862 - 2	.895657 - 2	-.136222 - 2	-.984347	.224186 - 2	.140093 - 1	.711094	
2.2	.590983 - 2	.113225 - 1	-.171363 - 2	-.101926	.271757 - 2	.170615 - 1	.708413	
2.4	.604013 - 2	.139391 - 1	-.209911 - 2	-.104809	.322572 - 2	.203485 - 1	.707144	
2.6	.612604 - 2	.168009 - 1	-.251722 - 2	-.107224	.376508 - 2	.238662 - 1	.706770	
2.8	.617947 - 2	.199036 - 1	-.296671 - 2	-.109271	.433463 - 2	.276119 - 1	.706971	
3.0	.620901 - 2	.232435 - 1	-.344646 - 2	-.111024	.493348 - 2	.315834 - 1	.707541	
3.2	.622090 - 2	.268178 - 1	-.395545 - 2	-.112541	.556085 - 2	.357793 - 1	.708346	
3.4	.621969 - 2	.306242 - 1	-.449277 - 2	-.113864	.621598 - 2	.401984 - 1	.709297	
3.6	.620876 - 2	.346606 - 1	-.505754 - 2	-.115027	.689819 - 2	.448397 - 1	.710334	
3.8	.619061 - 2	.389253 - 1	-.564897 - 2	-.116056	.760682 - 2	.497025 - 1	.711417	
4.0	.616711 - 2	.434170 - 1	-.626629 - 2	-.116973	.834123 - 2	.547862 - 1	.712518	
4.2	.613969 - 2	.481344 - 1	-.690878 - 2	-.117794	.910080 - 2	.600903 - 1	.713618	
4.4	.610942 - 2	.530766 - 1	-.757573 - 2	-.118533	.988493 - 2	.656143 - 1	.714704	
4.6	.607710 - 2	.582425 - 1	-.826647 - 2	-.119202	.106930 - 1	.713578 - 1	.715768	
4.8	.604339 - 2	.636315 - 1	-.898036 - 2	-.119810	.115245 - 1	.773206 - 1	.716805	
5.0	.600874 - 2	.692429 - 1	-.971674 - 2	-.120364	.123788 - 1	.835024 - 1	.717811	
5.2	.597355 - 2	.750761 - 1	-.104750 - 1	-.120872	.132553 - 1	.899029 - 1	.718784	
5.4	.593809 - 2	.811306 - 1	-.112545 - 1	-.121338	.141535 - 1	.965220 - 1	.719723	
5.6	.590259 - 2	.874059 - 1	-.120547 - 1	-.121768	.150728 - 1	.103359	.720628	
5.8	.586721 - 2	.939017 - 1	-.128750 - 1	-.122165	.160127 - 1	.110415	.721500	
6.0	.583210 - 2	.100618	-.137148 - 1	-.122534	.169727 - 1	.117689	.722338	
6.2	.579734 - 2	.107553	-.145736 - 1	-.122876	.179521 - 1	.125181	.723145	

Z = -98, A = 248

p	F ₀	f ₁	g ₁	tanΔ ₁	f ₋₁	g ₋₁	tanΔ ₋₁	
.4	.143388 - 2	.795393 - 2	-.228957 - 2	.327882 1	.533762 - 2	.177031 - 1	-.460272	1
.6	.284382 - 1	.569205 - 1	-.163460 - 1	.115694 1	.351415 - 1	.116818	.679641	2
.8	.102854	.154226	-.441551 - 1	.827053	.876891 - 1	.292348	.260010	2
1.0	.197075	.282780	-.806722 - 1	.685457	.149350	.499622	.501885	2
1.2	.282200	.426432	-.121174	.604331	.211361	.709753	-.162214	3
1.4	.347586	.575297	-.162782	.550777	.270148	.910859	-.320509	2
1.6	.393436	.724235	-.204009	.512365	.324791	.109980	1 -.187839	2
1.8	.423510	.870875	-.244178	.483286	.375440	.127698	1 -.138572	2
2.0	.441863	.101432 1	-.283037	.460421	.422588	.144396	1 -.113187	2
2.2	.451844	.115439 1	-.320547	.441930	.466781	.160247	1 -.978168	1
2.4	.455967	.129128 1	-.356769	.426649	.508516	.175413	1 -.875564	1
2.6	.456043	.142532 1	-.391805	.413797	.548214	.190028	1 -.802417	1
2.8	.453353	.155687 1	-.425768	.402833	.586220	.204207	1 -.747738	1
3.0	.448799	.168633 1	-.458771	.393367	.622818	.218040	1 -.705372	1
3.2	.443014	.181404 1	-.490921	.385111	.658238	.231605	1 -.671612	1
3.4	.436442	.194034 1	-.522312	.377845	.692669	.244963	1 -.644096	1
3.6	.429395	.206552 1	-.553032	.371402	.726266	.258165	1 -.621248	1
3.8	.422093	.218985 1	-.583156	.365650	.759158	.271256	1 -.601981	1
4.0	.414690	.231358 1	-.612754	.360483	.791453	.284273	1 -.585517	1
4.2	.407294	.243693 1	-.641887	.355817	.823245	.297246	1 -.571289	1
4.4	.399978	.256008 1	-.670608	.351582	.854611	.310204	1 -.558872	1
4.6	.392794	.268323 1	-.698966	.347723	.885620	.323171	1 -.547941	1
4.8	.385775	.280655 1	-.727006	.344191	.916330	.336169	1 -.538244	1
5.0	.378944	.293018 1	-.754767	.340947	.946795	.349217	1 -.529585	1
5.2	.372313	.305428 1	-.782286	.337957	.977061	.362333	1 -.521804	1
5.4	.365889	.317897 1	-.809596	.335193	.100717 1	.375533	1 -.514775	1
5.6	.359673	.330439 1	-.836727	.332631	.103716 1	.388834	1 -.508392	1
5.8	.353664	.343066 1	-.863707	.330249	.106707 1	.402249	1 -.502571	1
6.0	.347860	.355790 1	-.890564	.328030	.109692 1	.415793	1 -.497240	1
6.2	.342256	.368623 1	-.917323	.325958	.112676 1	.429478	1 -.492339	1

Z = -98, A = 248

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.457842 - 4	.152627 - 4	-.242095 - 5	.482421	.954709 - 5	.573063 - 4	.347786	1
.6	.561575 - 3	.147328 - 3	-.233144 - 4	-.136669	.737634 - 4	.443754 - 3	.125375	1
.8	.161226 - 2	.517792 - 3	-.816933 - 4	-.414001	.217277 - 3	.131088 - 2	.946540	
1.0	.275223 - 2	.118498 - 2	-.186299 - 3	-.589030	.433573 - 3	.262464 - 2	.833893	
1.2	.372161 - 2	.216125 - 2	-.338458 - 3	-.711249	.710274 - 3	.431573 - 2	.780847	
1.4	.446565 - 2	.343950 - 2	-.536372 - 3	-.801074	.103753 - 2	.632955 - 2	.752863	
1.6	.501086 - 2	.500715 - 2	-.777382 - 3	-.869393	.140865 - 2	.863001 - 2	.737226	
1.8	.540113 - 2	.685170 - 2	-.105886 - 2	-.922742	.181920 - 2	.111944 - 1	.728279	
2.0	.567626 - 2	.896241 - 2	-.137847 - 2	-.965314	.226620 - 2	.140083 - 1	.723194	
2.2	.586729 - 2	.113306 - 1	-.173422 - 2	-.999916	.274752 - 2	.170626 - 1	.720439	
2.4	.599716 - 2	.139492 - 1	-.212442 - 2	-.102849	1 .326159 - 2	.203513 - 1	.719131	
2.6	.608248 - 2	.168127 - 1	-.254760 - 2	-.105241	1 .380717 - 2	.238702 - 1	.718741	
2.8	.613520 - 2	.199167 - 1	-.300248 - 2	-.107268	1 .438321 - 2	.276165 - 1	.718941	
3.0	.616395 - 2	.232575 - 1	-.348793 - 2	-.109005	1 .498883 - 2	.315881 - 1	.719519	
3.2	.617500 - 2	.268323 - 1	-.400291 - 2	-.110506	1 .562321 - 2	.357835 - 1	.720339	
3.4	.617295 - 2	.306385 - 1	-.454650 - 2	-.111816	1 .628561 - 2	.402014 - 1	.721308	
3.6	.616118 - 2	.346742 - 1	-.511783 - 2	-.112968	1 .697533 - 2	.448408 - 1	.722366	
3.8	.614219 - 2	.389377 - 1	-.571607 - 2	-.113906	1 .769170 - 2	.497011 - 1	.723471	
4.0	.611788 - 2	.434275 - 1	-.634047 - 2	-.114894	1 .843409 - 2	.547816 - 1	.724595	
4.2	.608966 - 2	.481424 - 1	-.699027 - 2	-.115706	1 .920187 - 2	.600817 - 1	.725718	
4.4	.605862 - 2	.530814 - 1	-.766479 - 2	-.116438	1 .999443 - 2	.656010 - 1	.726827	
4.6	.602556 - 2	.582435 - 1	-.836334 - 2	-.117100	1 .108112 - 1	.713392 - 1	.727914	
4.8	.599113 - 2	.636280 - 1	-.908526 - 2	-.117701	1 .116515 - 1	.772958 - 1	.728973	
5.0	.595581 - 2	.692342 - 1	-.982991 - 2	-.118250	1 .125149 - 1	.834707 - 1	.730000	
5.2	.591995 - 2	.750614 - 1	-.105967 - 1	-.118752	1 .134007 - 1	.898636 - 1	.730994	
5.4	.588387 - 2	.811093 - 1	-.113849 - 1	-.119214	1 .143085 - 1	.964743 - 1	.731954	
5.6	.584776 - 2	.873772 - 1	-.121941 - 1	-.119639	1 .152375 - 1	.103303	.732879	
5.8	.581181 - 2	.938649 - 1	-.130235 - 1	-.120032	1 .161874 - 1	.110348	.733769	
6.0	.577615 - 2	.100572	-.138727 - 1	-.120397	1 .171575 - 1	.117611	.734626	
6.2	.574086 - 2	.107498	-.147410 - 1	-.120735	1 .181473 - 1	.125092	.735450	

Z = -99, A = 251

ρ	F_0	f_1	g_1	$\tan\Delta_1$	f_{-1}	g_{-1}	$\tan\Delta_{-1}$
.4	.136464 - 2	.780684 - 2	-.227359 - 2	.351866 1	.524514 - 2	.171999 - 1	-.429503 1
.6	.279822 - 1	.567096 - 1	-.164767 - 1	.118626 1	.351233 - 1	.115437	.136114 3
.8	.102684	.154564	-.447718 - 1	.844014	.883138 - 1	.291100	.298394 2
1.0	.198173	.284153	-.820179 - 1	.698553	.151020	.499487	.629748 2
1.2	.284845	.429048	-.123354	.615571	.214225	.711209	-.101190 3
1.4	.351532	.579183	-.165816	.560921	.274206	.914039	-.287113 2
1.6	.398277	.729334	-.207875	.521779	.329985	.110468 1	-.175803 2
1.8	.428865	.877110	-.248839	.492174	.381698	.128348 1	-.131804 2
2.0	.447438	.102161 1	-.288456	.468912	.429845	.145199 1	-.108538 2
2.2	.457429	.116269 1	-.326690	.450110	.474983	.161199 1	-.942505 1
2.4	.461421	.130055 1	-.363609	.434576	.517622	.176509 1	-.846284 1
2.6	.461274	.143553 1	-.399322	.421517	.558193	.191268 1	-.777275 1
2.8	.458308	.156804 1	-.433948	.410378	.597055	.205591 1	-.725465 1
3.0	.453447	.169845 1	-.467607	.400764	.634500	.219573 1	-.685192 1
3.2	.447342	.182716 1	-.500409	.392379	.670764	.233290 1	-.653017 1
3.4	.440446	.195450 1	-.532456	.385002	.706044	.246807 1	-.626740 1
3.6	.433081	.208078 1	-.563837	.378461	.740500	.260177 1	-.604885 1
3.8	.425468	.220628 1	-.594633	.372621	.774267	.273445 1	-.586429 1
4.0	.417766	.233126 1	-.624915	.367377	.807458	.286649 1	-.570641 1
4.2	.410084	.245593 1	-.654748	.362642	.840167	.299822 1	-.556983 1
4.4	.402496	.258052 1	-.684188	.358345	.872478	.312993 1	-.545052 1
4.6	.395054	.270521 1	-.713287	.354428	.904463	.326186 1	-.534542 1
4.8	.387791	.283018 1	-.742092	.350845	.936182	.339426 1	-.525212 1
5.0	.380728	.295559 1	-.770645	.347553	.967694	.352732 1	-.516876 1
5.2	.373879	.308160 1	-.798983	.344520	.999045	.366124 1	-.509381 1
5.4	.367248	.320835 1	-.827143	.341716	.103028 1	.379618 1	-.502607 1
5.6	.360837	.333598 1	-.855157	.339117	.106145 1	.393233 1	-.496454 1
5.8	.354645	.346462 1	-.883056	.336702	.109258 1	.406983 1	-.490840 1
6.0	.348667	.359441 1	-.910869	.334451	.112371 1	.420884 1	-.485696 1
6.2	.342898	.372545 1	-.938622	.332349	.115487 1	.434951 1	-.480966 1

Z = -99. A = 251

p	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.428885 - 4	.148989 - 4	-.238920 - 5	.512469	.937003 - 5	.556500 - 4	.374492	1
.6	.542601 - 3	.145789 - 3	-.233245 - 4	-.119646	.735276 - 4	.437662 - 3	.128581	1
.8	.157811 - 2	.515208 - 3	-.821809 - 4	-.397932	.218001 - 3	.130133 - 2	.965680	
1.0	.271125 - 2	.118220 - 2	-.187913 - 3	-.572631	.436435 - 3	.261397 - 2	.849320	
1.2	.367899 - 2	.215924 - 2	-.341881 - 3	-.694301	.716247 - 3	.430582 - 2	.794711	
1.4	.442334 - 2	.343902 - 2	-.542239 - 3	-.783585	.104736 - 2	.632154 - 2	.765949	
1.6	.496924 - 2	.500871 - 2	-.786260 - 3	-.051423	.142291 - 2	.002446 - 2	.749889	
1.8	.535999 - 2	.685557 - 2	-.107125 - 2	-.904360	.183836 - 2	.111914 - 1	.740703	
2.0	.563526 - 2	.896867 - 2	-.139482 - 2	-.946582	.229065 - 2	.140078 - 1	.735481	
2.2	.582612 - 2	.113391 - 1	-.175495 - 2	-.980886	.277761 - 2	.170643 - 1	.732649	
2.4	.595557 - 2	.139598 - 1	-.214989 - 2	-.100920	.329764 - 2	.203548 - 1	.731301	
2.6	.604029 - 2	.168252 - 1	-.257816 - 2	-.103291	.384946 - 2	.238750 - 1	.730895	
2.8	.609229 - 2	.199306 - 1	-.303846 - 2	-.105299	.443202 - 2	.276221 - 1	.731093	
3.0	.612025 - 2	.232724 - 1	-.352963 - 2	-.107019	.504442 - 2	.315938 - 1	.731680	
3.2	.613048 - 2	.268476 - 1	-.405064 - 2	-.108506	.568584 - 2	.357887 - 1	.732514	
3.4	.612757 - 2	.306538 - 1	-.460052 - 2	-.109803	.635552 - 2	.402055 - 1	.733502	
3.6	.611494 - 2	.346889 - 1	-.517842 - 2	-.110943	.705276 - 2	.448432 - 1	.734581	
3.8	.609511 - 2	.389512 - 1	-.578349 - 2	-.111952	.777690 - 2	.497010 - 1	.735709	
4.0	.606998 - 2	.434392 - 1	-.641497 - 2	-.112850	.852727 - 2	.547783 - 1	.736856	
4.2	.604096 - 2	.481517 - 1	-.707211 - 2	-.113655	.930327 - 2	.600745 - 1	.738003	
4.4	.600914 - 2	.530876 - 1	-.775421 - 2	-.114379	.101043 - 1	.655892 - 1	.739136	
4.6	.597534 - 2	.582459 - 1	-.846057 - 2	-.115034	.109297 - 1	.713220 - 1	.740246	
4.8	.594019 - 2	.636259 - 1	-.919053 - 2	-.115629	.117789 - 1	.772726 - 1	.741328	
5.0	.590417 - 2	.692269 - 1	-.994346 - 2	-.116172	.126514 - 1	.834406 - 1	.742378	
5.2	.586766 - 2	.750483 - 1	-.107187 - 1	-.116669	.135465 - 1	.898259 - 1	.743393	
5.4	.583094 - 2	.810895 - 1	-.115157 - 1	-.117126	.144637 - 1	.964282 - 1	.744374	
5.6	.579423 - 2	.873502 - 1	-.123338 - 1	-.117547	.154025 - 1	.103247	.745319	
5.8	.575770 - 2	.938298 - 1	-.131724 - 1	-.117936	.163623 - 1	.110283	.746229	
6.0	.572148 - 2	.100528	-.140309 - 1	-.118297	.173426 - 1	.117536	.747104	
6.2	.568566 - 2	.107445	-.149089 - 1	-.118632	.183427 - 1	.125004	.747947	

Z = -100, A = 256

p	E_0	f_1	g_1	$\tan\Delta_1$		f_{-1}	g_{-1}	$\tan\Delta_{-1}$	
.4	.129771 - 2	.765934 - 2	-.225628 - 2	.379500	1	.515291 - 2	.167083 - 1	-.402090	1
.6	.275110 - 1	.564789 - 1	-.165984 - 1	.121663	1	.350964 - 1	.114057	-.675749	4
.8	.102427	.154850	-.453710 - 1	.861354		.889234 - 1	.289826	.351258	2
1.0	.199104	.285448	-.833401 - 1	.711882		.152680	.499319	.850732	2
1.2	.287257	.431566	-.125507	.626987		.217093	.712654	-.731600	2
1.4	.355195	.582961	-.168821	.571211		.278293	.917258	-.259602	2
1.6	.402795	.734332	-.211713	.531321		.335238	.110967	1 -.165060	2
1.8	.433867	.883263	-.253476	.501179		.388053	.129020	1 -.125580	2
2.0	.452634	.102887	1 -.293858	.477512		.437240	.146038	1 -.104198	2
2.2	.462614	.117100	1 -.332827	.458391		.483369	.162201	1 -.908920	1
2.4	.466456	.130990	1 -.370458	.442601		.526964	.177674	1 -.818554	1
2.6	.466074	.144592	1 -.406867	.429329		.568469	.192597	1 -.753370	1
2.8	.462820	.157949	1 -.442181	.418013		.608252	.207088	1 -.704228	1
3.0	.457643	.171101	1 -.476524	.408247		.646614	.221244	1 -.665908	1
3.2	.451210	.184088	1 -.510014	.399732		.683802	.235143	1 -.635218	1
3.4	.443987	.196944	1 -.542755	.392241		.720018	.248852	1 -.610104	1
3.6	.436298	.209703	1 -.574843	.385601		.755428	.262425	1 -.589183	1
3.8	.428373	.222393	1 -.606361	.379673		.790172	.275909	1 -.571492	1
4.0	.420372	.235042	1 -.637386	.374350		.824369	.289343	1 -.556341	1
4.2	.412403	.247672	1 -.667984	.369544		.858117	.302762	1 -.543221	1
4.4	.404544	.260307	1 -.698216	.365184		.891504	.316196	1 -.531751	1
4.6	.396844	.272966	1 -.728136	.361210		.924606	.329671	1 -.521639	1
4.8	.389338	.285667	1 -.757793	.357574		.957487	.343212	1 -.512657	1
5.0	.382047	.298430	1 -.787232	.354235		.990208	.356840	1 -.504626	1
5.2	.374981	.311269	1 -.816494	.351158		.102282	1 .370577	1 -.497403	1
5.4	.368146	.324200	1 -.845617	.348314		.105538	1 .384441	1 -.490871	1
5.6	.361544	.337240	1 -.874638	.345678		.108792	1 .398451	1 -.484936	1
5.8	.355171	.350401	1 -.903588	.343228		.112049	1 .412623	1 -.479518	1
6.0	.349022	.363698	1 -.932499	.340945		.115312	1 .426975	1 -.474553	1
6.2	.343092	.377145	1 -.961402	.338813		.118586	1 .441524	1 -.469985	1

Z = -100, A = 256

P	$\bar{F}$	f_2	g_2	$\tan\Delta_2$	f_{-2}	g_{-2}	$\tan\Delta_{-2}$	
.4	.401507 - 4	.145769 - 4	-.236266 - 5	.543369	.921616 - 5	.541642 - 4	.405514	1
.6	.523966 - 3	.144599 - 3	-.233828 - 4	-.102648	.734528 - 4	.432646 - 3	.131908	1
.8	.154383 - 2	.513831 - 3	-.828425 - 4	-.382001	.219206 - 3	.129484 - 2	.985287	
1.0	.266946 - 2	.118219 - 2	-.189934 - 3	-.556421	.440280 - 3	.260939 - 2	.865052	
1.2	.363494 - 2	.216227 - 2	-.346050 - 3	-.677575	.723851 - 3	.430593 - 2	.808820	
1.4	.437912 - 2	.344658 - 2	-.549294 - 3	-.766342	.105959 - 2	.632825 - 2	.779253	
1.6	.492535 - 2	.502199 - 2	-.796859 - 3	-.833718	.144044 - 2	.863901 - 2	.762757	
1.8	.531634 - 2	.687550 - 2	-.108598 - 2	-.886258	.186175 - 2	.112146 - 1	.753323	
2.0	.559157 - 2	.899594 - 2	-.141421 - 2	-.928141	.232035 - 2	.140401 - 1	.747960	
2.2	.578213 - 2	.113743 - 1	-.177948 - 2	-.962156	.281405 - 2	.171060 - 1	.745048	
2.4	.591108 - 2	.140032 - 1	-.217999 - 2	-.990228	.334118 - 2	.204060 - 1	.743659	
2.6	.599514 - 2	.168771 - 1	-.261424 - 2	-.101372	.390046 - 2	.239358 - 1	.743236	
2.8	.604638 - 2	.199912 - 1	-.308090 - 2	-.103362	.449082 - 2	.276924 - 1	.743432	
3.0	.607353 - 2	.233419 - 1	-.357878 - 2	-.105066	.511132 - 2	.316737 - 1	.744028	
3.2	.608290 - 2	.269261 - 1	-.410684 - 2	-.106539	.576114 - 2	.358781 - 1	.744877	
3.4	.607914 - 2	.307412 - 1	-.466411 - 2	-.107824	.643951 - 2	.403042 - 1	.745884	
3.6	.606566 - 2	.347853 - 1	-.524969 - 2	-.108953	.714573 - 2	.449511 - 1	.746985	
3.8	.604499 - 2	.390565 - 1	-.586275 - 2	-.109951	.787911 - 2	.498179 - 1	.748136	
4.0	.601904 - 2	.435533 - 1	-.650251 - 2	-.110841	.863900 - 2	.549041 - 1	.749307	
4.2	.598924 - 2	.482745 - 1	-.716820 - 2	-.111637	.942477 - 2	.602090 - 1	.750478	
4.4	.595666 - 2	.532190 - 1	-.785912 - 2	-.112354	.102358 - 1	.657323 - 1	.751636	
4.6	.592213 - 2	.583859 - 1	-.857456 - 2	-.113003	.110715 - 1	.714734 - 1	.752770	
4.8	.588628 - 2	.637742 - 1	-.931387 - 2	-.113592	.119312 - 1	.774321 - 1	.753875	
5.0	.584960 - 2	.693834 - 1	-.100764 - 1	-.114130	.128144 - 1	.836080 - 1	.754948	
5.2	.581245 - 2	.752129 - 1	-.108615 - 1	-.114622	.137206 - 1	.900009 - 1	.755985	
5.4	.577512 - 2	.812619 - 1	-.116685 - 1	-.115074	.146490 - 1	.966107 - 1	.756987	
5.6	.573783 - 2	.875302 - 1	-.124969 - 1	-.115490	.155993 - 1	.103437	.757953	
5.8	.570074 - 2	.940173 - 1	-.133460 - 1	-.115876	.165707 - 1	.110480	.758883	
6.0	.566399 - 2	.100723	-.142153 - 1	-.116233	.175628 - 1	.117739	.759779	
6.2	.562767 - 2	.107646	-.151042 - 1	-.116564	.185751 - 1	.125215	.760640	

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