

SPECTRAL EVOLUTION OF GALAXIES. IV A CATALOGUE OF THEORETICAL PREDICTIONS OF COSMOLOGICAL INTEREST

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RESUMEN

Se presenta en forma de tablas numéricas, un conjunto de resultados de los modelos evolutivos de galaxias, preparados por el autor. Estos datos se presentan gráficamente en los artículos I y III de esta serie.

ABSTRACT

This paper presents in the form of numerical tables a set of results from the author's spectral evolutionary models for galaxies. These data are displayed in pictorial form in Papers I and III of this series.

Key words: GALAXIES-EVOLUTION – SPECTROPHOTOMETRY – STELLAR CONTENT – ULTRAVIOLET SPECTRA – SPACE TELESCOPE

I. INTRODUCTION

This is the fourth of a series of papers describing the results of the spectral evolutionary models for galaxies of Bruzual (1981). Paper I (Bruzual 1983a) describes the results of the models applied to early-type stellar systems. Paper II (Bruzual 1983b) presents an atlas of *IUE* spectra of late-type stars, globular clusters, and early-type galaxies compiled by the author. These data are used as ingredients (the stellar data) and as comparison spectra (the galaxy data) to construct and test the predictions of the synthesis program. Paper III (Bruzual 1983c) contains a series of predictions of cosmological interest applicable to some of the UV bandpasses that will be available in the *Space Telescope Faint Object Camera*. Paper III is complementary to Paper I as the latter is oriented towards ground based work. Because of reasons of space, in Papers I and III the results were presented in pictorial form only. Due to the nature of these predictions, it is useful to have the results both in pictorial and in numerical form. In this way reading and interpolation errors easily made when using small scale plots can be minimized.

In this paper, section I presents the results of Papers I and III in the form of numerical tables. Section II contains a summary of the definitions used to compute the quantities given in the tables. Section III briefly summarizes the photometric systems used in this investigation. The results are presented in section IV. Table 2 is provided to help the reader find the required quantity in the numerous tables. The conclusions of this work are given in Papers I and III, and are not repeated here.

II. DEFINITIONS

This section contains cosmological expressions that have been used throughout this investigation. These expressions can be found in most textbooks (Peebles 1971; Weinberg 1972) and are repeated here for reasons of completeness. Only Friedmann cosmologies with zero cosmological constant are considered.

a) Energy Received from a Source at Redshift z

Let $F_\lambda[\lambda, t(z)]$ represent the energy emitted per unit wavelength by a source in the rest frame of the source. It is assumed that the spectrum of the source evolves in time. The function $t(z)$ represents the age of the source measured from $t = 0$ when observed at redshift z . $t(z)$ is also a function of H_0 and q_0 (see below). If one observes this source at redshift z , the amount of energy received at wavelength λ inside the wavelength interval $d\lambda$ will be the energy emitted by the source at wavelength $\lambda(1+z)^{-1}$ inside the interval $(1+z)^{-1}d\lambda$, dimmed by the effect of the distance to the source. Commonly, observations are performed through a filter of response function $R(\lambda)$. Thus the total energy received from the source through this filter is given by

$$E_R(z) = E_0 \left[\frac{l_0}{l} \right]^2 \frac{1+z_0}{1+z} \frac{T_R[z, t(z)]}{T_R[z_0, t(z_0)]}, \quad (1)$$

where

TABLE 1
PHOTOMETRIC SYSTEMS*

System	Colors	Filters	$\lambda_{\text{eff}}(\text{\AA})$	$\Delta\lambda(\text{\AA})$	Reference
UBV	$U-B=U_3-B_2$ $B-V=B_3-V$	U_3	3652	201	1
		B_2	4448	363	
		B_3	4417	362	
		V	5505	367	
$U^+ J^+ FN$	$U^+ - J^+$ $J^+ - F$ $F - N$	$U^+ = \text{IIIa} - J + \text{UG5}$	3606	223	2
		$J^+ = \text{IIIa} - J + \text{GG385}$	4627	487	
		$F = 127 - 02 + \text{GG495}$	6167	599	
		$N = \text{IV} - N + \text{RG695}$	7941	562	
RIJHKL	$V-R$ $V-K$ $J-K$ $H-K$	R	6940	754	3
		I	8781	869	
		J	12488	1198	
		H	16500	879	
		K	21951	1772	
		L	34371	2354	
ST	$14-17$ $17-22$ $22-27$ $27-B, 27-V$	B 140	1405	120	4
		B 175	1751	166	
		B 220	2200	210	
		B 275	2750	252	

- (1) Azusienis and Straizys (1969); Buser (1978).
 (2) Kron (1978); Koo and Kron (1980, private communication).
 (3) Johnson (1965); Lebofsky (1980, private communication).
 (4) Macchetto *et al.* (1980); Djorgovski (1980, private communication).
 (*) $\lambda_{\text{eff}} = \frac{\int_{-\infty}^{\infty} \lambda R(\lambda) d\lambda}{\int_{-\infty}^{\infty} R(\lambda) d\lambda}$, $(\Delta\lambda)^2 = \frac{\int_{-\infty}^{\infty} (\lambda - \lambda_{\text{eff}})^2 R(\lambda) d\lambda}{\int_{-\infty}^{\infty} R(\lambda) d\lambda}$.

$$(1+z)^{-1} T_R[z, t(z)] = (1+z)^{-1} \times \int_{-\infty}^{\infty} F_{\lambda}[\lambda(1+z)^{-1}, t(z)] R(\lambda) d\lambda, \quad (2)$$

represents the energy transmitted by the filter, l is the luminosity distance from the source to the observer (Weinberg 1972), and E_0 is the energy received at some reference distance l_0 , with corresponding redshift z_0 . Expressing this energy in a magnitude scale,

$$m_R(z) - M_R = 5 \log \frac{l}{l_0} + 2.5 \log \frac{1+z}{1+z_0} - 2.5 \log \frac{T_R[z, t(z)]}{T_R[z_0, t(z_0)]}, \quad (3)$$

where $m_R(z) = -2.5 \log E_R(z)$, and $M_R = -2.5 \log E_0$.

b) Distance Modulus

For $z = z_0$, (3) gives the distance modulus, namely

$$m_R(z) - M_R = 42.384 - 5 \log h + 5 \log \begin{cases} \frac{q_0 z + (q_0 - 1)[(1 + 2q_0 z)^{1/2} - 1]}{q_0^2} & q_0 \neq 0. \\ z(1 + \frac{z}{2}) & q_0 = 0. \end{cases} \quad (4)$$

The numerical factor in the right hand side of (4) is equal to $5 \log(c/H_0 l_0)$; l_0 has been taken as 10 pc, and $h = H_0/100$. In this case M_R is the absolute magnitude of the source in the given band.

c) k and Evolutionary Corrections

The k -correction gives the magnitude difference between a source observed at redshift z and a source with identical spectrum observed at $z = 0$. The spectral evolution that takes place in the intervening time is neglected. Thus (Peebles 1971)

$$k(z) = 2.5 \log (1+z) - 2.5 \log \frac{T_R[z, t(0)]}{T_R[0, t(0)]}. \quad (5)$$

TABLE 2

INDEX OF TABLES

Quantity	Table	Paper
$V(z)$	3	I
$B(z)$	4	
$V - \text{CORR}(z)^*$	5	
$F(z)$	6	
$K(z)$	7	
$(U - B)(z)$	8	I
$(B - V)(z)$	9	
$(U^+ - J^+)(z)$	10	
$(J^+ - F)(z)$	11	
$(F - N)(z)$	12	
$(V - R)(z)$	13	
$(V - K)(z)$	14	
$(J - K)(z)$	15	
$(H - K)(z)$	16	
$B(z) - B(0)$	17	I
$V(z) - V(0)$	18	
$F(z) - F(0)$	19	
$K(z) - K(0)$	20	
$14(z)$	21	III
$22(z)$	22	
$27(z)$	23	
$V(z)$	24	
$(14 - 17)(z)$	25	III
$(17 - 22)(z)$	26	
$(22 - 27)(z)$	27	
$(27 - B)(z)$	28	
$(27 - V)(z)$	29	
$(B - V)(z)$	30	

(*) $V - \text{CORR}$ = corrected V magnitude, in the notation of Kristian *et al.* (1978).

The evolutionary correction $e(z)$, on the other hand, gives the magnitude difference between a source at redshift z , with a spectrum corresponding to age $t(z)$, and a similar source with a spectrum corresponding to age $t(0)$, redshifted by an amount z . This corresponds to

$$e(z) = -2.5 \log \frac{T_R[z, t(z)]}{T_R[z, t(0)]} \quad (6)$$

For $l_0 = 10$ pc, $z_0 \cong 0$, and the sum of the second and third terms in the right hand side of (3) represents the sum of $k_R(z)$ and $e_R(z)$, namely

$$m_R(z) - M_R = 5 \log \frac{l}{l_0} + k_R(z) + e_R(z) \quad (7)$$

The combined correction $k_R(z) + e_R(z)$ is the quantity plotted in Paper I and listed in the corresponding tables in section IV. In Paper I and in the table headings the combined correction has been denoted as $R(z) - R(0)$, where

$$R(z) - R(0) \equiv k_R(z) + e_R(z), \quad (8)$$

and R represents any of the bandpasses in use. This notation emphasizes the fact that the difference in the absolute magnitude to be assigned to a galaxy at redshift z and a nearby galaxy is due both to evolution and redshifting of the spectrum.

d) Look-Back Time as a Function of z

The age of a source, $t(q_0, z)$, observed at redshift z is given by

$$H_0 t(q_0, z) = \frac{(1 + 2q_0 z)^{1/2}}{(1 - 2q_0)(1 + z)} + q_0(2q_0 - 1)^{-3/2} \times \cos^{-1} \left[\frac{1 - q_0(1 - z)}{q_0(1 + z)} \right] \quad (9)$$

Where $\cos^{-1}(X) = \cos^{-1}(X)$ if $q_0 > 0.5$, and

$\cos^{-1}(X) = (-1)^{1/2} \cosh^{-1}(X)$ if $q_0 < 0.5$. For q_0

$$= 0.5, H_0 t(q_0, z) = \frac{2}{3} (1 + z)^{-3/2}.$$

For any cosmology the age of the universe is given by $t(q_0, 0)$. The look-back time $\Delta t(q_0, z)$ from $z = 0$ to redshift z is given by

$$\Delta t(q_0, z) = t(q_0, 0) - t(q_0, z). \quad (10)$$

III. PHOTOMETRIC SYSTEMS

Throughout this work, model predictions in several broad band color systems (photoelectric and photographic) have been computed. This requires knowledge of the filter response functions and the zero points for the given color. The magnitude of a source with spectral energy distribution $F_\lambda(\lambda)$ at zero redshift observed through a filter of response function $R(\lambda)$ is given by

$$C - 2.5 \log \int_{-\infty}^{\infty} F_\lambda R(\lambda) d\lambda, \quad (11)$$

where C is a constant that defines the magnitude system. Table 1 lists the color systems, filter characteristics, and the references from which the functions $R(\lambda)$ were obtained. The filter effective wavelength, λ_{eff} , and half-width, $\Delta\lambda$, were computed from

$$\lambda_{eff} = \frac{\int_{-\infty}^{\infty} \lambda R(\lambda) d\lambda}{\int_{-\infty}^{\infty} R(\lambda) d\lambda},$$

and

$$(\Delta\lambda)^2 = \frac{\int_{-\infty}^{\infty} (\lambda - \lambda_{eff})^2 R(\lambda) d\lambda}{\int_{-\infty}^{\infty} R(\lambda) d\lambda}.$$

respectively. The photographic U and J bands are denoted U^+ and J^+ to differentiate them from the U band of the UBV system, and the J band of the $RIJHKL$ system, respectively.

Four UV bandpasses accessible to the *Space Telescope* cameras have been used in this work. These bandpasses are also listed in Table 1. The B stands for broad band, and the three digit number gives the effective wavelength in nm. These bands were selected because they cover the region of interest in the UV , are available in both modes of the *Faint Object Camera* and in the *Wide Field Camera*, and are wide enough to allow the detection of relatively faint sources. In what follows the magnitudes corresponding to these bandpasses will be denoted 14, 17, 22, and 27, respectively (see Paper III for details).

All the filter response functions are listed in Table 3 and plotted in Figure 2 of Bruzual (1981). In the case of the UV filters the response functions take into account the efficiencies of both the *Space Telescope* and the *Faint Object Camera* as a function of wavelength. These functions were kindly provided by G. Djorgovski.

For all the synthetic colors computed in this work the zero points were established from the spectrum of an A0 V star, i.e. this star was required to have all colors = 0. The optical spectrum of this star was taken from Strazys and Sviderskiene (1972). In the UV the $OAO-2$ spectrum of α Lyrae (Code and Meade 1979) was used.

IV. RESULTS

As in Papers I and III, time is measured in Gyr (1 Gyr = 10^9 year), and H_0 in $\text{km s}^{-1} \text{Mpc}^{-1}$. In both cases the units will not be indicated. The age of galaxies is denoted by t_g , and, as before, τ always refers to the time scale appearing in the star formation rate (see Paper I).

Due to the current uncertainties in the value of H_0 , it was decided in Papers I and III to present the model results for $H_0 = 50$, and $H_0 = 100$. For intermediate values a linear interpolation should suffice. For every quantity two tables, (a) and (b), are included. Table (a) was computed with $H_0 = 50$, $q_0 = 0$, and $t_g = 16$. Table (b) with $H_0 = 100$, $q_0 = 0$, and $t_g = 9$. This is the same

notation used in the previous papers. In the table headings, $H_0 = H_0$, $Q_0 = q_0$, $T_g = t_g$, and $Z = z$. This change in notation was introduced because of the inability of the computer printer to reproduce the notation used in the text.

a) Results from Paper I

The predicted magnitudes, colors, and combined corrections in the z range from 0 to 2 for the models discussed in Paper I are listed in Tables 3 to 20. Table 2 should help locating the required tables. The tables have been ordered according to the photometric systems, in the same order as in Table 1.

The predicted quantities are listed for the c-model ($\tau = 1$), and $\mu = 0.7, 0.6$, and 0.5 models (all with $x = 1.35$). The predictions for the c-model when Horizontal Branch (HB) stars are added according to the two schemes described in Paper I are also included. For comparison the corresponding quantities for a non-evolving spectral energy distribution (that for the c-model at $z = 0$) at the appropriate redshift are also given. In the table headings these models are identified as C, 0.70, 0.60, 0.50, HB1, HB2, and N.E., respectively. See Paper I for more details about model definitions.

All the spectra were scaled to an absolute magnitude $V_0 = -23.0$ at a distance modulus of 25 for the $H_0 = 50$ cosmology. For typical colors of $B - V = 1.0$ and $V - K = 3.3$, this corresponds to $B_0 = -22.0$, and $K_0 = -26.3$. In the F band an absolute magnitude $F_0 = -23.8$ was assigned. No attempt was made to determine the best possible absolute magnitude in each of the bands.

The first line in Tables 3 through 7 corresponds to a distance modulus of 25 magnitudes ($H_0 = 50$), and 23.5 magnitudes ($H_0 = 100$), and hence the value $z = 0$ should be ignored. Note that for $H_0 = 100$ the galaxies are intrinsically fainter by 1.5 magnitudes than for $H_0 = 50$.

b) Results from Paper III

The predicted magnitudes and colors for the *Space Telescope* photometric system given in Table 1 are listed in Tables 21 through 30. In this case the range from 0.004 to 3 is covered in z . The combined corrections were thought of little use in this wavelength range and were not computed.

The models used in Paper III are: μ -models with $\mu = 0.90, 0.70, 0.50, 0.30, 0.15, 0.01$ (all with $x = 1.35$), and a d-model with $\tau = 10$, and $x = 0.85$. In the table headings the μ -models are identified by the value of μ , the d-model by the value of x . See Paper I for more details about model definitions.

All the spectra were scaled to an absolute magnitude $J_0^+ = -21.0$ at a distance modulus of 25 for the $H_0 = 50$ cosmology. The corresponding V_0 magnitudes were assigned according to a procedure described in Paper III.

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REFERENCES

Azusienis, A. and Straizys, V. 1969, *Soviet Astron. A. J.*, 13, 316.
Bruzual A., G. 1981, *Ph. D. thesis*, University of California, Berkeley. (Extra copies available from University Microfilms International, Ann Arbor, Michigan 48106, USA).
Bruzual A., G. 1983a, *Ap. J.* (Paper I, in press).
Bruzual A., G. 1983b, *Rev. Mexicana Astron. Astrof.* (Paper II, 8, 29).
Bruzual A., G. 1983c, *A. J.* (Paper III, submitted).
Buser, R. 1978, *Astr. and Ap.*, 62, 411.
Code, A. D. and Meade, M. R. 1979, *Ap. J. Suppl.*, 39, 195.
Johnson, H. L. 1965, *Ap. J.*, 141, 923.
Kristian, J., Sandage, A., and Westphal, J. A. 1978, *Ap. J.*, 221, 383.
Kron, R. G. 1978, *Ph. D. thesis*, University of California, Berkeley.
Macchetto, F., van de Hulst, H. C., di Serego Alighieri, S., and Perryman, M. A. C. 1980, in *The Faint Object Camera for the Space Telescope*, (Paris: European Space Agency).
Peebles, P. J. E. 1971, in *Physical Cosmology*, (Princeton University Press), p. 159.
Straizys, V. and Sviderskiene, Z. 1972, *Bull. Vilnius Astr. Obs.*, 35, 1.
Weinberg, S. 1972, in *Gravitation and Cosmology*, (New York: John Wiley & Sons, Inc.) p. 407.

TABLE 3a

B(Z) vs. Z. (H ₀ =50, Q ₀ =0, T _g =16).								
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.	
0.000	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.025	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
0.050	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.7
0.075	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.7
0.100	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.5
0.125	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.2
0.150	18.6	18.6	18.6	18.5	18.6	18.5	18.5	18.8
0.175	19.1	19.0	19.0	19.0	19.0	19.0	19.0	19.3
0.200	19.5	19.5	19.4	19.4	19.5	19.4	19.4	19.8
0.225	19.9	19.8	19.8	19.8	19.8	19.8	20.2	20.2
0.250	20.2	20.2	20.1	20.1	20.2	20.1	20.5	20.5
0.275	20.5	20.5	20.5	20.4	20.5	20.4	20.9	20.9
0.300	20.8	20.8	20.7	20.6	20.8	20.7	21.3	21.3
0.325	21.1	21.0	21.0	20.9	21.1	21.0	21.6	21.6
0.350	21.3	21.3	21.2	21.1	21.3	21.2	21.9	21.9
0.375	21.6	21.5	21.5	21.4	21.6	21.4	22.2	22.2
0.400	21.8	21.7	21.7	21.6	21.8	21.7	22.5	22.5
0.425	22.0	22.0	21.9	21.8	22.0	21.9	22.8	22.8
0.450	22.2	22.2	22.1	22.0	22.2	22.1	23.0	23.0
0.475	22.5	22.4	22.3	22.2	22.5	22.3	23.4	23.4
0.500	22.7	22.6	22.5	22.3	22.7	22.5	23.6	23.6
0.525	23.0	22.9	22.8	22.5	22.9	22.7	23.9	23.9
0.550	23.2	23.1	23.0	22.7	23.1	23.0	24.2	24.2
0.575	23.4	23.3	23.1	22.8	23.4	23.1	24.5	24.5
0.600	23.7	23.5	23.4	23.0	23.6	23.4	24.9	24.9
0.625	23.9	23.7	23.5	23.1	23.8	23.6	25.1	25.1
0.650	24.1	24.0	23.7	23.3	24.0	23.8	25.5	25.5
0.675	24.4	24.1	23.9	23.4	24.2	24.0	25.7	25.7
0.700	24.6	24.3	24.0	23.5	24.5	24.2	26.0	26.0
0.725	24.8	24.5	24.1	23.5	24.7	24.4	26.3	26.3
0.750	25.1	24.6	24.2	23.5	24.9	24.5	26.6	26.6
0.775	25.3	24.8	24.3	23.6	25.0	24.7	26.8	26.8
0.800	25.5	24.9	24.4	23.6	25.2	24.9	27.1	27.1
0.825	25.8	25.0	24.4	23.7	25.4	25.0	27.4	27.4
0.850	26.0	25.1	24.5	23.7	25.6	25.2	27.7	27.7
0.875	26.2	25.2	24.5	23.7	25.7	25.3	27.9	27.9
0.900	26.3	25.2	24.5	23.7	25.9	25.4	28.2	28.2
0.925	26.4	25.2	24.4	23.6	26.0	25.5	28.4	28.4
0.950	26.6	25.2	24.4	23.6	26.1	25.6	28.6	28.6
0.975	26.7	25.3	24.4	23.6	26.2	25.7	28.9	28.9
1.000	26.9	25.3	24.4	23.6	26.3	25.8	29.1	29.1
1.100	27.1	25.2	24.3	23.5	26.6	26.0	29.9	29.9
1.200	27.2	25.0	24.2	23.5	26.9	26.3	30.7	30.7
1.300	27.4	24.9	24.1	23.4	27.1	26.5	31.4	31.4
1.400	27.7	24.7	23.9	23.3	27.4	26.6	32.2	32.2
1.500	28.0	24.6	23.8	23.3	27.6	26.9	32.8	32.8
1.600	28.3	24.5	23.7	23.2	28.0	27.1	33.4	33.4
1.700	28.8	24.2	23.5	23.1	28.2	27.3	33.8	33.8
1.800	29.3	24.0	23.4	23.0	28.5	27.5	34.2	34.2
1.900	29.9	23.9	23.3	23.0	28.8	27.8	34.8	34.8
2.000	30.4	23.9	23.4	23.0	29.1	27.9	34.8	34.8

TABLE 3b

B(Z) vs. Z. (H ₀ =100, Q ₀ =0, T _g =9).								
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.	
0.000	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
0.025	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
0.050	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.7
0.075	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.7
0.100	17.4	17.4	17.3	17.3	17.4	17.4	17.4	17.5
0.125	18.0	18.0	17.9	17.9	18.0	18.0	18.0	18.1
0.150	18.5	18.5	18.4	18.4	18.5	18.5	18.5	18.7
0.175	19.0	18.9	18.9	18.8	19.0	18.9	19.2	19.2
0.200	19.4	19.3	19.3	19.2	19.4	19.3	19.6	19.6
0.225	19.8	19.7	19.6	19.5	19.8	19.7	20.0	20.0
0.250	20.1	20.0	19.9	19.8	20.1	20.0	20.4	20.4
0.275	20.4	20.3	20.2	20.1	20.4	20.4	20.7	20.7
0.300	20.7	20.6	20.5	20.3	20.7	20.6	21.0	21.0
0.325	21.0	20.8	20.7	20.5	21.0	20.9	21.3	21.3
0.350	21.2	21.0	20.9	20.8	21.2	21.1	21.6	21.6
0.375	21.5	21.3	21.1	21.0	21.5	21.4	21.9	21.9
0.400	21.7	21.5	21.3	21.1	21.7	21.6	22.1	22.1
0.425	21.9	21.7	21.5	21.3	22.0	21.8	22.4	22.4
0.450	22.1	21.9	21.7	21.5	22.2	22.0	22.7	22.7
0.475	22.4	22.1	21.9	21.6	22.4	22.3	23.0	23.0
0.500	22.6	22.3	22.0	21.7	22.6	22.5	23.2	23.2
0.525	22.8	22.5	22.2	21.9	22.8	22.7	23.5	23.5
0.550	23.0	22.6	22.3	22.0	23.0	22.9	23.7	23.7
0.575	23.2	22.8	22.4	22.1	23.2	23.1	24.0	24.0
0.600	23.5	23.0	22.6	22.2	23.5	23.3	24.3	24.3
0.625	23.6	23.1	22.7	22.3	23.7	23.5	24.5	24.5
0.650	23.9	23.3	22.8	22.4	23.9	23.7	24.9	24.9
0.675	24.1	23.4	22.9	22.5	24.1	23.9	25.1	25.1
0.700	24.3	23.5	23.0	22.5	24.3	24.0	25.4	25.4
0.725	24.4	23.5	23.0	22.6	24.4	24.2	25.6	25.6
0.750	24.6	23.6	23.1	22.6	24.6	24.4	25.9	25.9
0.775	24.7	23.7	23.1	22.7	24.7	24.5	26.1	26.1
0.800	24.8	23.7	23.1	22.7	24.8	24.6	26.4	26.4
0.825	25.0	23.8	23.2	22.7	25.0	24.7	26.6	26.6
0.850	25.1	23.8	23.2	22.8	25.1	24.8	26.8	26.8
0.875	25.2	23.8	23.3	22.8	25.2	24.9	27.1	27.1
0.900	25.3	23.9	23.3	22.8	25.3	25.0	27.3	27.3
0.925	25.4	23.9	23.3	22.9	25.4	25.1	27.5	27.5
0.950	25.5	23.9	23.3	22.9	25.5	25.2	27.7	27.7
0.975	25.6	24.0	23.4	22.9	25.6	25.3	27.9	27.9
1.000	25.7	24.0	23.4	23.0	25.7	25.4	28.1	28.1
1.100	26.0	24.0	23.4	23.0	26.1	25.8	28.9	28.9
1.200	26.4	23.9	23.3	23.0	26.4	26.1	29.6	29.6
1.300	26.7	23.9	23.3	23.0	26.7	26.4	30.3	30.3
1.400	27.2	23.9	23.4	23.1	27.1	26.7	31.2	31.2
1.500	27.6	23.9	23.4	23.1	27.4	27.0	32.0	32.0
1.600	27.9	23.9	23.5	23.2	27.7	27.2	32.8	32.8
1.700	28.4	23.9	23.4	23.2	28.0	27.5	33.4	33.4
1.800	29.0	23.9	23.5	23.3	28.4	27.7	34.0	34.0
1.900	29.5	23.9	23.5	23.3	28.7	28.0	34.4	34.4
2.000	29.8	23.9	23.5	23.4	28.9	28.3	34.9	34.9

TABLE 4a

V(Z) vs. Z. (He=50, G=0, Tg=16).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0.025	12.9	12.9	12.9	12.9	12.9	12.9	12.9
0.050	14.3	14.3	14.3	14.3	14.3	14.3	14.3
0.075	15.4	15.4	15.4	15.4	15.4	15.4	15.3
0.100	16.1	16.1	16.1	16.1	16.1	16.0	16.2
0.125	16.6	16.6	16.6	16.6	16.6	16.6	16.7
0.150	17.1	17.1	17.0	17.0	17.1	17.0	17.2
0.175	17.3	17.3	17.3	17.4	17.3	17.4	17.7
0.200	17.8	17.8	17.8	17.8	17.9	17.8	18.1
0.225	18.2	18.2	18.2	18.1	18.2	18.1	18.4
0.250	18.5	18.5	18.5	18.5	18.5	18.4	18.8
0.275	18.8	18.8	18.8	18.7	18.8	18.7	19.1
0.300	19.1	19.1	19.0	19.1	19.0	19.0	19.5
0.325	19.4	19.4	19.4	19.3	19.4	19.3	19.8
0.350	19.7	19.7	19.7	19.6	19.7	19.6	20.1
0.375	20.0	20.0	19.9	19.9	20.0	19.9	20.4
0.400	20.2	20.2	20.2	20.1	20.2	20.1	20.7
0.425	20.5	20.4	20.4	20.3	20.5	20.3	21.0
0.450	20.7	20.7	20.6	20.5	20.7	20.6	21.3
0.475	20.9	20.9	20.8	20.7	20.9	20.8	21.5
0.500	21.1	21.0	21.0	20.9	21.1	21.0	21.8
0.525	21.3	21.2	21.2	21.1	21.3	21.1	22.0
0.550	21.4	21.4	21.3	21.2	21.5	21.3	22.2
0.575	21.6	21.5	21.5	21.4	21.6	21.5	22.4
0.600	21.7	21.7	21.6	21.5	21.8	21.6	22.7
0.625	21.9	21.9	21.8	21.7	22.1	21.8	22.8
0.650	22.1	22.0	21.9	21.8	22.1	21.9	23.0
0.675	22.2	22.2	22.1	21.9	22.3	22.1	23.2
0.700	22.4	22.3	22.2	22.0	22.4	22.2	23.4
0.725	22.5	22.5	22.3	22.1	22.6	22.4	23.6
0.750	22.7	22.6	22.5	22.2	22.7	22.5	23.8
0.775	22.9	22.7	22.6	22.3	22.9	22.7	24.0
0.800	23.1	23.0	22.8	22.4	23.1	22.9	24.2
0.825	23.3	23.1	22.9	22.5	23.3	23.0	24.5
0.850	23.4	23.2	23.0	22.7	23.4	23.2	24.7
0.875	23.6	23.4	23.1	22.7	23.6	23.4	24.9
0.900	23.8	23.5	23.2	22.8	23.8	23.5	25.2
0.925	23.9	23.6	23.3	22.9	23.9	23.6	25.4
0.950	24.1	23.7	23.4	22.9	24.1	23.8	25.6
0.975	24.2	23.8	23.5	23.0	24.2	23.9	25.9
1.000	24.3	24.0	23.6	23.1	24.4	24.1	26.1
1.100	25.0	24.3	23.8	23.2	25.0	24.6	27.0
1.200	25.5	24.5	23.9	23.3	25.5	25.1	27.9
1.300	25.8	24.5	23.9	23.3	25.8	25.4	28.7
1.400	25.9	24.4	23.7	23.2	26.0	25.5	29.4
1.500	26.1	24.4	23.7	23.2	26.1	25.7	30.0
1.600	26.3	24.5	23.8	23.4	26.4	26.0	30.7
1.700	26.5	24.6	23.9	23.0	26.6	26.1	31.3
1.800	26.7	24.9	23.3	23.0	26.8	26.4	32.0
1.900	26.9	25.8	23.3	22.9	27.0	26.5	32.6
2.000	27.0	25.7	23.3	22.9	27.1	26.6	33.1

TABLE 5a

V-CORR (Z) vs. Z. (He=50, G=0, Tg=16).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0.025	12.9	12.9	12.9	12.9	12.9	12.9	12.9
0.050	14.4	14.4	14.4	14.4	14.4	14.4	14.4
0.075	15.3	15.3	15.3	15.3	15.3	15.3	15.3
0.100	15.9	15.9	15.9	15.9	15.9	15.9	16.0
0.125	16.4	16.4	16.4	16.4	16.4	16.4	16.5
0.150	16.8	16.8	16.8	16.8	16.8	16.8	16.9
0.175	17.1	17.1	17.1	17.1	17.2	17.1	17.3
0.200	17.4	17.4	17.4	17.4	17.5	17.4	17.6
0.225	17.6	17.6	17.6	17.6	17.7	17.7	17.9
0.250	17.9	17.8	17.8	17.8	17.9	17.9	18.1
0.275	18.1	18.0	18.0	18.0	18.2	18.1	18.4
0.300	18.2	18.2	18.2	18.2	18.4	18.3	18.6
0.325	18.4	18.4	18.4	18.3	18.5	18.4	18.8
0.350	18.6	18.5	18.5	18.5	18.7	18.6	19.0
0.375	18.7	18.7	18.6	18.6	18.8	18.7	19.1
0.400	18.8	18.8	18.8	18.7	19.0	18.9	19.3
0.425	18.9	18.9	18.9	18.8	19.1	19.0	19.4
0.450	19.0	19.0	19.0	18.9	19.2	19.1	19.6
0.475	19.1	19.1	19.1	19.0	19.3	19.2	19.7
0.500	19.2	19.2	19.1	19.1	19.5	19.3	19.9
0.525	19.3	19.3	19.2	19.1	19.6	19.4	20.0
0.550	19.4	19.3	19.3	19.2	19.6	19.5	20.1
0.575	19.4	19.4	19.4	19.3	19.7	19.6	20.2
0.600	19.5	19.5	19.4	19.3	19.8	19.7	20.3
0.625	19.6	19.5	19.5	19.4	19.9	19.7	20.5
0.650	19.6	19.6	19.5	19.4	20.0	19.8	20.6
0.675	19.7	19.6	19.6	19.4	20.1	19.9	20.7
0.700	19.7	19.7	19.6	19.5	20.1	19.9	20.8
0.725	19.8	19.7	19.6	19.5	20.2	20.0	20.9
0.750	19.8	19.8	19.7	19.5	20.3	20.1	21.0
0.775	19.9	19.8	19.7	19.5	20.4	20.1	21.0
0.800	19.9	19.8	19.7	19.5	20.4	20.2	21.1
0.825	20.0	19.9	19.7	19.4	20.5	20.3	21.2
0.850	20.0	19.9	19.7	19.4	20.6	20.3	21.3
0.875	20.1	19.9	19.7	19.4	20.7	20.4	21.4
0.900	20.0	19.9	19.7	19.3	20.7	20.4	21.5
0.925	20.1	19.9	19.6	19.3	20.8	20.5	21.5
0.950	20.1	19.9	19.6	19.2	20.8	20.5	21.6
0.975	20.1	19.9	19.5	19.1	20.9	20.6	21.7
1.000	20.1	19.8	19.5	19.1	21.0	20.6	21.8
1.100	20.1	19.7	19.2	18.7	21.2	20.8	22.0
1.200	19.9	19.4	18.9	18.4	21.3	20.9	22.3
1.300	19.6	19.2	18.6	18.1	21.5	21.0	22.8
1.400	19.3	18.8	18.3	17.9	21.5	21.1	22.8
1.500	19.0	18.7	18.2	17.8	21.6	21.2	23.0
1.600	18.8	18.5	18.0	17.8	21.8	21.3	23.2
1.700	18.5	18.3	17.8	17.7	21.9	21.4	23.4
1.800	18.3	18.1	17.8	17.6	22.0	21.6	23.6
1.900	18.0	18.1	17.7	17.6	22.2	21.8	23.7
2.000	17.7	18.0	17.7	17.6	22.3	21.8	23.9

TABLE 4b

V(Z) vs. Z. (He=100, G=0, Tg=9)							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	2.0	2.0	2.0	2.0	2.0	2.0	2.0
0.025	12.9	12.9	12.9	12.9	12.9	12.9	12.9
0.050	14.3	14.3	14.4	14.4	14.3	14.3	14.5
0.075	15.4	15.4	15.4	15.4	15.4	15.4	15.3
0.100	16.1	16.1	16.0	16.0	16.1	16.1	16.1
0.125	16.6	16.6	16.6	16.5	16.6	16.6	16.7
0.150	17.0	17.0	17.0	17.0	17.1	17.0	17.2
0.175	17.4	17.4	17.4	17.4	17.5	17.4	17.6
0.200	17.8	17.8	17.7	17.7	17.8	17.8	18.0
0.225	18.1	18.1	18.1	18.0	18.2	18.1	18.4
0.250	18.5	18.4	18.4	18.3	18.5	18.4	18.7
0.275	18.8	18.7	18.6	18.6	18.8	18.7	19.0
0.300	19.1	19.0	18.9	18.8	19.1	19.0	19.4
0.325	19.4	19.3	19.2	19.1	19.4	19.3	19.7
0.350	19.6	19.5	19.4	19.3	19.6	19.5	20.0
0.375	19.9	19.8	19.7	19.6	19.9	19.8	20.3
0.400	20.1	20.0	19.9	19.8	20.1	20.0	20.6
0.425	20.4	20.2	20.1	20.0	20.4	20.3	20.8
0.450	20.6	20.4	20.3	20.2	20.6	20.5	21.1
0.475	20.8	20.6	20.5	20.4	20.8	20.7	21.3
0.500	20.9	20.8	20.7	20.5	21.0	20.9	21.5
0.525	21.1	21.0	20.9	20.7	21.2	21.0	21.7
0.550	21.3	21.1	21.0	20.8	21.4	21.2	21.9
0.575	21.3	21.3	21.1	21.0	21.5	21.4	22.1
0.600	21.6	21.4	21.3	21.1	21.7	21.5	22.3
0.625	21.8	21.6	21.4	21.2	21.8	21.7	22.5
0.650	21.9	21.7	21.5	21.4	22.0	21.9	22.7
0.675	22.1	21.9	21.7	21.6	22.1	22.0	22.8
0.700	22.2	22.0	21.8	21.6	22.3	22.1	23.0
0.725	22.4	22.1	21.9	21.6	22.4	22.3	23.2
0.750	22.5	22.2	22.0	21.7	22.6	22.4	23.4
0.775	22.6	22.3	22.1	21.8	22.7	22.5	23.6
0.800	22.8	22.4	22.2	21.9	22.9	22.7	23.8
0.825	22.9	22.5	22.3	22.0	23.0	22.8	24.0
0.850	23.0	22.6	22.4	22.1	23.1	23.0	24.2
0.875	23.2	22.8	22.5	22.2	23.3	23.1	24.4
0.900	23.3	22.9	22.5	22.2	23.3	23.1	24.6
0.925	23.3	23.0	22.6	22.3	23.4	23.2	24.8
0.950	23.6	23.0	22.7	22.4	23.8	23.5	25.0
0.975	23.8	23.1	22.7	22.4	23.9	23.7	25.2
1.000	23.9	23.2	22.8	22.5	24.0	23.8	25.4
1.100	24.3	23.5	23.0	22.7	24.4	24.1	26.1
1.200	25.0	23.5	23.1	22.8	25.0	24.7	27.1
1.300	25.3	23.6	23.2	22.9	25.3	25.0	27.8
1.400	25.6	23.6	23.2	22.9	25.7	25.3	28.4
1.500	25.8	23.7	23.3	23.0	25.9	25.7	28.9
1.600	26.0	23.7	23.3	23.1	26.1	25.9	29.6
1.700	26.2	23.7	23.3	23.1	26.4	26.1	30.2
1.800	26.3	23.7	23.3	23.1	26.6	26.1	30.9
1.900	26.6	23.7	23.3	23.1	26.8	26.3	31.5
2.000	26.6	23.7	23.3	23.2	26.8	26.6	32.2

SPECTRAL EVOLUTION OF GALAXIES

TABLE 6a

F(Z) vs. Z. (H₀=50, Q₀=0, T_g=16).

Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	1.2	1.2	1.2	1.2	1.2	1.2	1.2
0.025	12.4	12.1	12.1	12.1	12.1	12.1	12.1
0.050	13.6	13.6	13.6	13.6	13.7	13.6	13.7
0.075	14.6	14.6	14.6	14.6	14.6	14.6	14.6
0.100	15.2	15.2	15.2	15.2	15.2	15.2	15.3
0.125	15.8	15.8	15.7	15.7	15.8	15.7	15.9
0.150	16.2	16.2	16.2	16.2	16.2	16.2	16.4
0.175	16.6	16.6	16.6	16.6	16.6	16.6	16.8
0.200	16.9	16.9	16.9	16.9	16.9	16.9	17.1
0.225	17.2	17.2	17.2	17.2	17.3	17.2	17.5
0.250	17.5	17.5	17.5	17.5	17.5	17.5	17.8
0.275	17.8	17.8	17.8	17.7	17.8	17.7	18.1
0.300	18.1	18.0	18.0	18.0	18.1	18.0	18.4
0.325	18.3	18.3	18.3	18.2	18.3	18.2	18.6
0.350	18.5	18.5	18.5	18.4	18.5	18.5	18.9
0.375	18.7	18.7	18.7	18.6	18.7	18.7	19.1
0.400	18.9	18.9	18.9	18.8	18.9	18.8	19.3
0.425	19.1	19.1	19.1	19.0	19.1	19.0	19.6
0.450	19.3	19.3	19.3	19.2	19.3	19.2	19.8
0.475	19.5	19.5	19.4	19.4	19.5	19.4	20.0
0.500	19.7	19.7	19.6	19.6	19.7	19.6	20.2
0.525	19.9	19.9	19.8	19.7	19.9	19.8	20.5
0.550	20.1	20.1	20.0	19.9	20.1	20.0	20.7
0.575	20.3	20.3	20.2	20.1	20.3	20.2	21.0
0.600	20.5	20.4	20.4	20.3	20.5	20.3	21.2
0.625	20.6	20.6	20.5	20.4	20.7	20.5	21.4
0.650	20.8	20.8	20.7	20.5	20.8	20.7	21.6
0.675	21.0	20.9	20.8	20.7	21.0	20.9	21.8
0.700	21.1	21.1	21.0	20.8	21.2	21.0	22.0
0.725	21.3	21.3	21.2	21.0	21.4	21.2	22.3
0.750	21.5	21.4	21.3	21.1	21.6	21.4	22.5
0.775	21.7	21.6	21.5	21.3	21.8	21.6	22.7
0.800	21.8	21.7	21.6	21.4	21.9	21.7	22.9
0.825	22.0	21.8	21.7	21.5	22.0	21.8	23.0
0.850	22.1	21.9	21.8	21.6	22.1	21.9	23.1
0.875	22.2	22.1	21.9	21.7	22.3	22.0	23.3
0.900	22.3	22.2	22.0	21.7	22.4	22.2	23.5
0.925	22.5	22.3	22.1	21.8	22.5	22.3	23.7
0.950	22.5	22.4	22.2	21.9	22.6	22.4	23.8
0.975	22.7	22.5	22.2	21.9	22.7	22.5	24.0
1.000	22.8	22.6	22.3	22.0	22.9	22.6	24.1
1.100	23.2	22.9	22.6	22.2	23.3	23.0	24.8
1.200	23.7	23.2	22.8	22.4	23.8	23.5	25.6
1.300	24.1	23.5	23.0	22.5	24.2	23.9	26.3
1.400	24.4	23.8	23.0	22.6	24.6	24.3	27.1
1.500	24.9	23.7	23.1	22.6	25.0	24.6	28.0
1.600	25.1	23.6	23.0	22.6	25.2	24.9	28.6
1.700	25.4	23.5	22.9	22.5	25.6	25.2	29.5
1.800	25.6	23.4	22.8	22.5	25.7	25.4	30.0
1.900	25.7	23.3	22.8	22.5	25.9	25.6	30.6
2.000	25.7	23.2	22.7	22.5	25.9	25.6	30.9

TABLE 7a

K(Z) vs. Z. (H₀=50, Q₀=0, T_g=16).

Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
0.025	9.5	9.5	9.5	9.5	9.5	9.5	9.6
0.050	11.0	11.0	11.0	11.0	11.0	11.0	11.0
0.075	11.8	11.8	11.8	11.8	11.8	11.8	11.9
0.100	12.4	12.4	12.4	12.4	12.4	12.4	12.9
0.125	12.9	12.9	12.9	12.9	12.9	12.9	12.9
0.150	13.2	13.2	13.2	13.2	13.3	13.2	13.3
0.175	13.5	13.5	13.5	13.5	13.6	13.5	13.6
0.200	13.8	13.8	13.8	13.8	13.8	13.8	13.9
0.225	14.0	14.0	14.0	14.0	14.1	14.0	14.2
0.250	14.2	14.2	14.2	14.2	14.3	14.2	14.4
0.275	14.4	14.4	14.4	14.4	14.5	14.4	14.6
0.300	14.6	14.6	14.6	14.6	14.6	14.6	14.8
0.325	14.8	14.7	14.7	14.7	14.8	14.8	15.0
0.350	14.9	14.9	14.9	14.9	15.0	14.9	15.2
0.375	15.0	15.0	15.0	15.0	15.1	15.0	15.3
0.400	15.2	15.2	15.1	15.1	15.2	15.2	15.5
0.425	15.3	15.3	15.3	15.2	15.4	15.3	15.6
0.450	15.4	15.4	15.4	15.4	15.5	15.4	15.8
0.475	15.5	15.5	15.5	15.5	15.6	15.5	15.9
0.500	15.6	15.6	15.6	15.6	15.7	15.6	16.0
0.525	15.7	15.7	15.7	15.7	15.8	15.7	16.1
0.550	15.8	15.8	15.8	15.8	15.9	15.8	16.3
0.575	15.9	15.9	15.9	15.9	16.0	15.9	16.4
0.600	16.0	16.0	16.0	16.0	16.1	16.0	16.5
0.625	16.1	16.1	16.1	16.0	16.2	16.1	16.6
0.650	16.2	16.2	16.2	16.1	16.3	16.2	16.7
0.675	16.3	16.3	16.3	16.2	16.4	16.3	16.8
0.700	16.4	16.4	16.3	16.3	16.5	16.4	16.9
0.725	16.5	16.4	16.4	16.4	16.6	16.5	17.0
0.750	16.5	16.5	16.5	16.5	16.7	16.5	17.1
0.775	16.6	16.6	16.6	16.5	16.8	16.6	17.2
0.800	16.7	16.7	16.6	16.6	16.8	16.7	17.3
0.825	16.8	16.8	16.7	16.7	16.9	16.8	17.4
0.850	16.8	16.8	16.8	16.8	17.0	16.8	17.5
0.875	16.9	16.9	16.9	16.9	17.0	16.9	17.5
0.900	17.0	17.0	16.9	16.9	17.1	17.0	17.6
0.925	17.0	17.0	17.0	17.0	17.2	17.0	17.7
0.950	17.1	17.1	17.0	17.0	17.3	17.1	17.8
0.975	17.2	17.1	17.1	17.1	17.3	17.2	17.9
1.000	17.2	17.2	17.2	17.1	17.4	17.2	18.0
1.100	17.5	17.5	17.4	17.4	17.6	17.5	18.3
1.200	17.7	17.7	17.6	17.6	17.9	17.7	18.5
1.300	17.9	17.9	17.8	17.8	18.1	17.9	18.8
1.400	18.0	18.0	18.0	18.0	18.3	18.0	19.0
1.500	18.2	18.2	18.2	18.2	18.4	18.2	19.3
1.600	18.4	18.4	18.3	18.3	18.6	18.3	19.5
1.700	18.6	18.5	18.5	18.5	18.8	18.5	19.7
1.800	18.8	18.7	18.7	18.7	19.0	18.7	19.9
1.900	18.9	18.8	18.8	18.8	19.1	18.9	20.1
2.000	19.0	19.0	19.0	19.0	19.2	19.0	20.3

TABLE 6b

F(Z) vs. Z. (H₀=100, Q₀=0, T_g=9).

Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	1.2	1.2	1.2	1.2	1.2	1.2	1.2
0.025	12.1	12.1	12.1	12.1	12.1	12.1	12.1
0.050	13.6	13.6	13.6	13.6	13.6	13.6	13.7
0.075	14.6	14.6	14.6	14.5	14.6	14.6	14.6
0.100	15.2	15.2	15.2	15.2	15.2	15.2	15.3
0.125	15.7	15.7	15.7	15.7	15.8	15.7	15.9
0.150	16.2	16.2	16.2	16.1	16.2	16.2	16.3
0.175	16.6	16.5	16.5	16.5	16.6	16.5	16.7
0.200	16.9	16.9	16.9	16.9	17.0	16.9	17.1
0.225	17.2	17.2	17.2	17.1	17.2	17.2	17.4
0.250	17.5	17.5	17.4	17.4	17.5	17.5	17.7
0.275	17.8	17.7	17.7	17.6	17.8	17.7	18.0
0.300	18.0	18.0	17.9	17.9	18.0	18.0	18.3
0.325	18.2	18.2	18.1	18.1	18.3	18.2	18.6
0.350	18.5	18.4	18.4	18.3	18.5	18.4	18.8
0.375	18.7	18.6	18.5	18.5	18.7	18.6	19.0
0.400	18.9	18.8	18.7	18.7	18.9	18.8	19.2
0.425	19.1	19.0	18.9	18.8	19.1	19.0	19.5
0.450	19.2	19.2	19.1	19.0	19.3	19.2	19.7
0.475	19.4	19.3	19.3	19.2	19.5	19.4	19.9
0.500	19.6	19.5	19.4	19.3	19.7	19.6	20.1
0.525	19.8	19.7	19.6	19.5	19.9	19.7	20.3
0.550	20.0	19.9	19.8	19.6	20.0	19.9	20.6
0.575	20.2	20.0	19.9	19.8	20.2	20.1	20.8
0.600	20.3	20.2	20.1	20.0	20.4	20.3	21.0
0.625	20.5	20.3	20.2	20.1	20.6	20.4	21.2
0.650	20.7	20.5	20.4	20.2	20.7	20.6	21.4
0.675	20.8	20.7	20.5	20.4	20.9	20.8	21.6
0.700	21.0	20.8	20.7	20.5	21.1	20.9	21.8
0.725	21.1	20.9	20.8	20.6	21.2	21.1	22.0
0.750	21.3	21.1	20.9	20.8	21.4	21.2	22.2
0.775	21.5	21.2	21.1	20.9	21.6	21.4	22.4
0.800	21.6	21.3	21.2	21.0	21.7	21.5	22.5
0.825	21.7	21.5	21.3	21.1	21.8	21.6	22.7
0.850	21.8	21.6	21.4	21.2	21.9	21.8	22.8
0.875	21.9	21.7	21.5	21.3	22.1	21.9	23.0
0.900	22.1	21.8	21.6	21.4	22.2	22.0	23.1
0.925	22.3	22.0	21.6	21.4	22.3	22.1	23.3
0.950	22.5	22.2	21.7	21.5	22.4	22.2	23.4
0.975	22.4	22.0	21.8	21.6	22.5	22.3	23.5
1.000	22.5	22.1	21.9	21.6	22.7	22.5	23.7
1.100	23.0	22.4	22.1	21.9	23.1	22.9	24.3
1.200	23.4	22.6	22.3	22.0	23.5	23.4	25.0
1.300	23.9	22.8	22.4	22.2	24.0	23.8	25.6
1.400	24.3	23.0	22.6	22.3	24.5	24.3	26.4
1.500	24.7	23.1	22.7	22.4	24.9	24.7	27.1
1.600	25.0	23.1	22.7	22.5	25.1	24.9	27.6
1.700	25.3	23.2	22.8	22.6	25.5	25.2	28.5

TABLE 8a

U-B vs. Z. (H ₀ =50, G ₀ =0, T _g =16).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.73	0.71	0.70	0.69	0.56	0.56	0.73
0.025	0.70	0.68	0.67	0.66	0.55	0.55	0.71
0.050	0.68	0.66	0.65	0.63	0.54	0.54	0.70
0.075	0.66	0.63	0.62	0.60	0.52	0.51	0.69
0.100	0.61	0.59	0.57	0.55	0.48	0.47	0.66
0.125	0.58	0.55	0.54	0.51	0.45	0.44	0.64
0.150	0.56	0.52	0.50	0.48	0.41	0.40	0.64
0.175	0.60	0.56	0.54	0.51	0.44	0.43	0.70
0.200	0.64	0.59	0.56	0.52	0.43	0.43	0.76
0.225	0.74	0.68	0.65	0.60	0.51	0.49	0.88
0.250	0.79	0.72	0.69	0.62	0.55	0.52	0.95
0.275	0.87	0.78	0.75	0.68	0.60	0.56	1.08
0.300	1.07	0.86	0.82	0.71	0.67	0.63	1.20
0.325	1.03	0.90	0.85	0.72	0.71	0.67	1.28
0.350	1.29	1.12	1.05	0.87	0.87	0.82	1.57
0.375	1.25	1.07	0.99	0.79	0.86	0.81	1.57
0.400	1.38	1.16	1.06	0.80	0.93	0.86	1.74
0.425	1.51	1.25	1.12	0.80	1.00	0.92	1.87
0.450	1.59	1.29	1.13	0.75	1.03	0.94	1.97
0.475	1.60	1.25	1.06	0.64	1.02	0.92	2.02
0.500	1.76	1.32	1.07	0.59	1.07	0.95	2.15
0.525	1.75	1.26	0.97	0.46	1.03	0.90	2.20
0.550	1.76	1.20	0.88	0.36	0.99	0.85	2.21
0.575	1.74	1.11	0.75	0.22	0.92	0.78	2.22
0.600	1.65	0.96	0.57	0.06	0.82	0.67	2.12
0.625	1.57	0.84	0.43	-0.06	0.74	0.59	2.07
0.650	1.46	0.68	0.26	-0.20	0.63	0.46	1.96
0.675	1.42	0.57	0.14	-0.29	0.55	0.39	1.93
0.700	1.29	0.41	-0.01	-0.39	0.44	0.29	1.81
0.725	1.28	0.29	-0.13	-0.47	0.39	0.23	1.77
0.750	1.29	0.16	-0.25	-0.55	0.32	0.15	1.75
0.775	1.42	0.11	-0.31	-0.60	0.32	0.14	1.80
0.800	1.43	-0.01	-0.41	-0.66	0.26	0.08	1.78
0.825	1.48	-0.12	-0.49	-0.70	0.20	0.03	1.79
0.850	1.61	-0.18	-0.54	-0.74	0.18	0.00	1.86
0.875	1.57	-0.29	-0.61	-0.78	0.14	-0.04	1.89
0.900	1.62	-0.35	-0.65	-0.80	0.12	-0.06	1.95
0.925	1.62	-0.42	-0.69	-0.83	0.10	-0.09	1.99
0.950	1.60	-0.47	-0.73	-0.85	0.06	-0.12	2.01
0.975	1.57	-0.52	-0.75	-0.86	0.03	-0.16	1.99
1.000	1.52	-0.56	-0.78	-0.88	-0.01	-0.19	1.92
1.100	1.26	-0.57	-0.83	-0.90	-0.05	-0.24	1.71
1.200	1.23	-0.71	-0.84	-0.89	0.01	-0.23	1.50
1.300	2.19	-0.74	-0.83	-0.88	0.08	-0.23	1.26
1.400	3.25	-0.79	-0.85	-0.88	0.10	-0.26	0.90
1.500	3.61	-0.81	-0.85	-0.88	0.04	-0.31	0.54
1.600	3.61	-0.80	-0.82	-0.84	0.02	-0.30	0.26
1.700	3.75	-0.76	-0.78	-0.79	0.07	-0.22	0.10
1.800	3.76	-0.73	-0.74	-0.75	0.09	-0.14	0.00
1.900	3.68	-0.68	-0.69	-0.70	0.13	-0.04	-0.06
2.000	3.46	-0.64	-0.65	-0.66	0.21	0.07	-0.11

TABLE 8b

U-B vs. Z. (H ₀ =100, G ₀ =0, T _g =9).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.57	0.54	0.52	0.47	0.47	0.47	0.57
0.025	0.53	0.51	0.49	0.44	0.46	0.46	0.54
0.050	0.50	0.48	0.46	0.41	0.44	0.44	0.51
0.075	0.46	0.45	0.42	0.37	0.41	0.41	0.48
0.100	0.41	0.41	0.38	0.32	0.37	0.37	0.44
0.125	0.37	0.36	0.34	0.27	0.33	0.33	0.40
0.150	0.36	0.34	0.30	0.22	0.31	0.30	0.37
0.175	0.42	0.39	0.33	0.22	0.35	0.34	0.43
0.200	0.46	0.41	0.33	0.21	0.37	0.36	0.47
0.225	0.58	0.49	0.39	0.22	0.45	0.43	0.58
0.250	0.64	0.53	0.41	0.21	0.49	0.47	0.64
0.275	0.71	0.56	0.40	0.18	0.54	0.51	0.72
0.300	0.81	0.61	0.42	0.17	0.61	0.59	0.83
0.325	0.87	0.63	0.41	0.13	0.66	0.63	0.90
0.350	1.13	0.76	0.47	0.14	0.84	0.80	1.18
0.375	1.10	0.72	0.41	0.08	0.83	0.79	1.19
0.400	1.23	0.74	0.38	0.04	0.91	0.85	1.30
0.425	1.36	0.75	0.35	-0.01	0.98	0.91	1.45
0.450	1.42	0.72	0.30	-0.06	1.01	0.94	1.55
0.475	1.40	0.62	0.20	-0.13	0.99	0.91	1.57
0.500	1.47	0.57	0.13	-0.20	1.02	0.93	1.74
0.525	1.40	0.45	0.03	-0.27	0.97	0.87	1.74
0.550	1.34	0.35	-0.06	-0.33	0.91	0.81	1.76
0.575	1.24	0.23	-0.15	-0.40	0.82	0.72	1.75
0.600	1.11	0.11	-0.24	-0.46	0.71	0.61	1.67
0.625	0.98	0.00	-0.32	-0.52	0.61	0.51	1.59
0.650	0.84	-0.11	-0.41	-0.58	0.48	0.39	1.49
0.675	0.74	-0.20	-0.47	-0.62	0.40	0.31	1.45
0.700	0.61	-0.29	-0.54	-0.67	0.30	0.22	1.33
0.725	0.55	-0.37	-0.59	-0.70	0.25	0.16	1.32
0.750	0.48	-0.45	-0.64	-0.74	0.19	0.10	1.32
0.775	0.49	-0.50	-0.68	-0.77	0.19	0.10	1.45
0.800	0.48	-0.55	-0.71	-0.79	0.17	0.07	1.46
0.825	0.48	-0.59	-0.76	-0.82	0.16	0.05	1.51
0.850	0.52	-0.62	-0.77	-0.84	0.17	0.05	1.65
0.875	0.55	-0.65	-0.79	-0.86	0.17	0.04	1.71
0.900	0.60	-0.68	-0.81	-0.87	0.20	0.05	1.85
0.925	0.64	-0.70	-0.83	-0.89	0.20	0.05	1.95
0.950	0.67	-0.73	-0.84	-0.90	0.20	0.04	2.03
0.975	0.71	-0.74	-0.85	-0.91	0.21	0.05	2.14
1.000	0.74	-0.76	-0.87	-0.92	0.21	0.02	2.06
1.100	0.91	-0.81	-0.89	-0.93	0.24	0.02	2.11
1.200	1.30	-0.82	-0.88	-0.91	0.34	0.06	2.16
1.300	2.17	-0.82	-0.87	-0.90	0.46	0.11	2.24
1.400	3.38	-0.84	-0.87	-0.89	0.42	0.05	2.03
1.500	3.95	-0.84	-0.87	-0.88	0.35	-0.02	1.98
1.600	4.43	-0.81	-0.83	-0.84	0.33	-0.04	1.12
1.700	4.81	-0.77	-0.78	-0.79	0.31	-0.03	0.74
1.800	4.71	-0.72	-0.74	-0.74	0.27	-0.02	0.48
1.900	4.23	-0.68	-0.69	-0.70	0.26	0.04	0.25
2.000	3.78	-0.64	-0.65	-0.66	0.39	0.19	0.06

TABLE 9a

B-V vs. Z. (H ₀ =50, G ₀ =0, T _g =16).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.94	0.94	0.93	0.93	0.85	0.85	0.94
0.025	1.02	1.01	1.01	1.00	0.93	0.92	1.02
0.050	1.10	1.10	1.09	1.08	1.00	1.00	1.11
0.075	1.20	1.19	1.18	1.17	1.09	1.09	1.21
0.100	1.29	1.28	1.28	1.26	1.18	1.17	1.32
0.125	1.38	1.37	1.37	1.35	1.27	1.26	1.41
0.150	1.46	1.45	1.44	1.43	1.34	1.34	1.50
0.175	1.53	1.51	1.50	1.48	1.41	1.40	1.58
0.200	1.57	1.56	1.55	1.52	1.45	1.44	1.63
0.225	1.60	1.59	1.57	1.55	1.49	1.48	1.68
0.250	1.62	1.60	1.59	1.56	1.51	1.50	1.71
0.275	1.63	1.61	1.59	1.56	1.53	1.51	1.73
0.300	1.62	1.59	1.57	1.53	1.51	1.50	1.72
0.325	1.60	1.57	1.55	1.51	1.50	1.49	1.72
0.350	1.55	1.52	1.50	1.46	1.46	1.45	1.69
0.375	1.54	1.50	1.48	1.44	1.45	1.43	1.70
0.400	1.50	1.47	1.45	1.40	1.42	1.40	1.69
0.425	1.50	1.46	1.44	1.39	1.41	1.39	1.71
0.450	1.48	1.45	1.43	1.36	1.40	1.38	1.72
0.475	1.53	1.49	1.46	1.38	1.43	1.40	1.78
0.500	1.55	1.50	1.47	1.37	1.44	1.41	1.83
0.525	1.62	1.57	1.52	1.40	1.49	1.46	1.89
0.550	1.67	1.61	1.55	1.40	1.53	1.49	1.98
0.575	1.74	1.67	1.59	1.42	1.58	1.54	2.04
0.600	1.86	1.74	1.66	1.43	1.67	1.61	2.18
0.625	1.91	1.79	1.67	1.42	1.71	1.65	2.24
0.650	2.03	1.89	1.73	1.43	1.80	1.73	2.38
0.675	2.08	1.91	1.73	1.40	1.84	1.76	2.44
0.700	2.18	1.97	1.75	1.38	1.91	1.81	2.56
0.725	2.23	1.97	1.70	1.31	1.93	1.83	2.62
0.750	2.34	2.00	1.69	1.26	2.00	1.88	2.71
0.775	2.44	2.07	1.60	1.18	2.07	1.85	2.74
0.800	2.42	1.94	1.55	1.11	2.00	1.86	2.83
0.825	2.49	1.92	1.49	1.04	2.02	1.86	2.89
0.850	2.48	1.85	1.41	0.96	1.99	1.83	2.90
0.875	2.51	1.75	1.28	0.86	1.97	1.79	2.95
0.900	2.49	1.66	1.19	0.78	1.95	1.76	2.95
0.925	2.46	1.55	1.08	0.70	1.90	1.71	2.95
0.950	2.45	1.45	0.98	0.63	1.86	1.65	2.95
0.975	2.44	1.37	0.90	0.57	1.84	1.62	2.95
1.000	2.38	1.24	0.79	0.49	1.75	1.53	2.94
1.100	2.00	0.80	0.46	0.28	1.46	1.25	2.82
1.200	1.65	0.49	0.25	0.13	1.21	1.02	2.69
1.300	1.53	0.33	0.14	0.05	1.13	0.92	2.60
1.400	1.69	0.23	0.08	0.01	1.24	0.97	2.66
1.500	1.93	0.18	0.05	-0.01	1.36	1.01	

TABLE 10a

U'-J' vs. Z. (Ho=50, G ₀ =0, T _g =16).							
Z	C	0.70	0.60	0.50	HBI	HB2	N.E.
0.000	0.90	0.88	0.87	0.85	0.71	0.71	0.90
0.025	0.93	0.93	0.92	0.90	0.77	0.77	0.96
0.050	0.96	0.96	0.94	0.92	0.80	0.80	1.00
0.075	1.03	1.00	0.98	0.96	0.84	0.83	1.07
0.100	1.04	1.01	0.99	0.96	0.85	0.84	1.10
0.125	1.05	1.01	1.00	0.96	0.86	0.85	1.13
0.150	1.07	1.03	1.01	0.97	0.87	0.85	1.18
0.175	1.07	1.02	0.99	0.95	0.85	0.84	1.20
0.200	1.14	1.08	1.06	1.00	0.90	0.88	1.29
0.225	1.28	1.21	1.17	1.10	0.99	0.96	1.44
0.250	1.29	1.20	1.17	1.09	1.01	0.98	1.47
0.275	1.29	1.18	1.14	1.04	0.99	0.95	1.54
0.300	1.42	1.29	1.23	1.11	1.06	1.02	1.67
0.325	1.52	1.36	1.30	1.14	1.13	1.09	1.81
0.350	1.58	1.39	1.31	1.11	1.15	1.09	1.90
0.375	1.63	1.42	1.33	1.10	1.20	1.13	1.99
0.400	1.63	1.40	1.29	1.01	1.16	1.09	2.11
0.425	1.98	1.66	1.51	1.13	1.36	1.26	2.39
0.450	2.03	1.67	1.48	1.06	1.39	1.29	2.48
0.475	1.92	1.56	1.36	0.92	1.30	1.19	2.47
0.500	2.20	1.69	1.40	0.86	1.40	1.27	2.69
0.525	2.27	1.71	1.39	0.82	1.43	1.29	2.84
0.550	2.27	1.65	1.29	0.70	1.39	1.23	2.83
0.575	2.38	1.62	1.20	0.58	1.39	1.22	2.96
0.600	2.31	1.53	1.07	0.45	1.34	1.15	2.90
0.625	2.29	1.39	0.89	0.28	1.25	1.07	2.87
0.650	2.11	1.22	0.72	0.14	1.14	0.96	2.79
0.675	2.22	1.15	0.61	0.04	1.11	0.91	2.78
0.700	1.97	0.92	0.40	-0.12	0.96	0.78	2.66
0.725	2.07	0.86	0.31	-0.19	0.97	0.76	2.64
0.750	2.24	0.77	0.19	-0.28	0.97	0.74	2.79
0.775	2.10	0.61	0.01	-0.40	0.81	0.59	2.59
0.800	2.32	0.48	-0.08	-0.46	0.82	0.58	2.84
0.825	2.26	0.32	-0.20	-0.54	0.71	0.47	2.65
0.850	2.35	0.18	-0.32	-0.61	0.61	0.37	2.77
0.875	2.27	0.04	-0.41	-0.66	0.56	0.32	2.68
0.900	2.28	-0.08	-0.49	-0.71	0.51	0.27	2.78
0.925	2.19	-0.19	-0.56	-0.73	0.42	0.19	2.70
0.950	2.24	-0.25	-0.59	-0.77	0.42	0.17	2.79
0.975	2.20	-0.31	-0.64	-0.79	0.37	0.13	2.73
1.000	2.16	-0.38	-0.67	-0.81	0.31	0.07	2.69
1.100	1.71	-0.59	-0.78	-0.87	0.16	-0.08	2.28
1.200	1.85	-0.65	-0.81	-0.88	0.20	-0.08	2.08
1.300	2.67	-0.69	-0.81	-0.87	0.33	-0.04	1.92
1.400	3.81	-0.75	-0.84	-0.88	0.41	-0.03	1.71
1.500	4.20	-0.77	-0.83	-0.86	0.39	-0.07	1.78
1.600	4.23	-0.75	-0.79	-0.81	0.37	-0.06	1.82
1.700	4.48	-0.70	-0.73	-0.75	0.48	0.05	0.49
1.800	4.66	-0.69	-0.71	-0.72	0.50	0.11	0.35
1.900	4.84	-0.66	-0.68	-0.69	0.58	0.21	0.26
2.000	4.84	-0.63	-0.64	-0.65	0.71	0.34	0.19

TABLE 11a

J'-F vs. Z. (Ho=50, G ₀ =0, T _g =16).							
Z	C	0.70	0.60	0.50	HBI	HB2	N.E.
0.000	1.16	1.16	1.15	1.14	1.07	1.07	1.16
0.025	1.21	1.20	1.20	1.19	1.12	1.11	1.21
0.050	1.26	1.26	1.25	1.24	1.17	1.17	1.27
0.075	1.31	1.31	1.30	1.29	1.22	1.22	1.33
0.100	1.39	1.38	1.38	1.36	1.29	1.28	1.41
0.125	1.44	1.44	1.43	1.42	1.34	1.34	1.47
0.150	1.52	1.51	1.50	1.49	1.41	1.40	1.55
0.175	1.64	1.63	1.62	1.60	1.52	1.51	1.69
0.200	1.70	1.68	1.67	1.65	1.57	1.56	1.76
0.225	1.79	1.77	1.76	1.74	1.66	1.65	1.86
0.250	1.83	1.81	1.80	1.77	1.70	1.69	1.91
0.275	1.88	1.86	1.85	1.81	1.75	1.74	1.98
0.300	2.01	1.98	1.96	1.92	1.86	1.84	2.13
0.325	2.04	2.01	1.99	1.94	1.90	1.88	2.17
0.350	2.11	2.08	2.05	2.00	1.97	1.94	2.26
0.375	2.12	2.09	2.06	2.01	1.99	1.97	2.30
0.400	2.19	2.16	2.13	2.07	2.06	2.03	2.38
0.425	2.16	2.13	2.10	2.04	2.04	2.02	2.38
0.450	2.20	2.16	2.13	2.06	2.08	2.05	2.44
0.475	2.15	2.12	2.09	2.00	2.05	2.02	2.43
0.500	2.25	2.20	2.16	2.06	2.12	2.09	2.51
0.525	2.14	2.10	2.06	1.96	2.04	2.01	2.44
0.550	2.16	2.11	2.07	1.95	2.05	2.02	2.48
0.575	2.15	2.10	2.05	1.91	2.05	2.01	2.48
0.600	2.12	2.07	2.01	1.86	2.02	1.98	2.48
0.625	2.24	2.17	2.09	1.90	2.11	2.06	2.60
0.650	2.27	2.19	2.09	1.88	2.13	2.08	2.64
0.675	2.33	2.23	2.10	1.85	2.16	2.10	2.73
0.700	2.42	2.29	2.13	1.83	2.22	2.13	2.83
0.725	2.35	2.21	2.03	1.73	2.17	2.10	2.79
0.750	2.36	2.18	1.97	1.64	2.15	2.07	2.82
0.775	2.44	2.22	1.97	1.59	2.22	2.13	2.89
0.800	2.56	2.26	1.96	1.55	2.27	2.16	3.02
0.825	2.68	2.31	1.97	1.53	2.36	2.23	3.15
0.850	2.85	2.38	1.98	1.50	2.47	2.33	3.35
0.875	2.90	2.33	1.88	1.40	2.49	2.32	3.42
0.900	2.95	2.29	1.81	1.32	2.52	2.34	3.51
0.925	3.04	2.26	1.74	1.25	2.56	2.37	3.61
0.950	3.05	2.19	1.66	1.19	2.56	2.35	3.65
0.975	3.08	2.14	1.59	1.13	2.58	2.36	3.74
1.000	3.14	2.09	1.52	1.06	2.59	2.35	3.82
1.100	3.15	1.73	1.18	0.80	2.57	2.29	4.16
1.200	2.81	1.32	0.84	0.56	2.33	2.06	4.10
1.300	2.51	0.96	0.59	0.38	2.09	1.82	3.97
1.400	2.23	0.62	0.37	0.23	1.85	1.58	3.76
1.500	2.43	0.19	0.24	0.15	1.77	1.45	3.68
1.600	2.37	0.33	0.17	0.10	1.85	1.46	3.80
1.700	2.27	0.19	0.10	0.06	1.74	1.34	3.53
1.800	2.44	0.16	0.09	0.05	1.83	1.39	3.44
1.900	2.61	0.14	0.08	0.05	1.92	1.43	3.21
2.000	2.91	0.16	0.11	0.08	2.15	1.55	3.15

TABLE 10b

U'-J' vs. Z. (Ho=100, G ₀ =0, T _g =9).							
Z	C	0.70	0.60	0.50	HBI	HB2	N.E.
0.000	0.71	0.69	0.67	0.61	0.61	0.61	0.71
0.025	0.73	0.73	0.71	0.64	0.67	0.67	0.76
0.050	0.76	0.74	0.71	0.64	0.68	0.68	0.77
0.075	0.79	0.77	0.73	0.66	0.71	0.71	0.81
0.100	0.80	0.78	0.74	0.65	0.72	0.71	0.84
0.125	0.80	0.78	0.73	0.63	0.72	0.72	0.84
0.150	0.82	0.78	0.73	0.61	0.73	0.72	0.85
0.175	0.83	0.78	0.71	0.57	0.73	0.72	0.85
0.200	0.94	0.86	0.76	0.59	0.80	0.79	0.94
0.225	1.10	0.97	0.83	0.61	0.92	0.90	1.10
0.250	1.11	0.98	0.82	0.59	0.94	0.92	1.11
0.275	1.08	0.92	0.75	0.50	0.90	0.88	1.10
0.300	1.24	1.00	0.77	0.47	1.01	0.98	1.26
0.325	1.34	1.04	0.76	0.43	1.09	1.05	1.38
0.350	1.40	1.02	0.70	0.39	1.11	1.07	1.44
0.375	1.47	1.03	0.68	0.31	1.17	1.12	1.52
0.400	1.48	0.96	0.58	0.21	1.14	1.08	1.53
0.425	1.80	1.07	0.61	0.19	1.34	1.26	1.91
0.450	1.85	1.04	0.55	0.13	1.38	1.29	1.97
0.475	1.69	0.88	0.42	0.04	1.26	1.17	1.88
0.500	1.85	0.83	0.34	-0.04	1.34	1.23	2.18
0.525	1.85	0.77	0.28	-0.08	1.35	1.24	2.25
0.550	1.77	0.66	0.18	-0.16	1.28	1.17	2.27
0.575	1.75	0.57	0.10	-0.22	1.26	1.14	2.36
0.600	1.63	0.46	0.01	-0.28	1.16	1.05	2.33
0.625	1.55	0.34	-0.08	-0.35	1.09	0.97	2.32
0.650	1.39	0.22	-0.17	-0.42	0.97	0.85	2.15
0.675	1.36	0.15	-0.23	-0.46	0.93	0.81	2.26
0.700	1.21	0.02	-0.33	-0.53	0.81	0.70	2.02
0.725	1.15	-0.07	-0.39	-0.57	0.77	0.65	2.12
0.750	1.19	-0.14	-0.45	-0.61	0.79	0.66	2.29
0.775	1.02	-0.27	-0.54	-0.68	0.64	0.52	2.14
0.800	1.11	-0.31	-0.57	-0.70	0.69	0.56	2.38
0.825	1.02	-0.40	-0.63	-0.74	0.60	0.46	2.31
0.850	0.98	-0.48	-0.68	-0.78	0.54	0.39	2.41
0.875	1.01	-0.51	-0.70	-0.80	0.55	0.39	2.43
0.900	1.03	-0.56	-0.73	-0.82	0.53	0.36	2.55
0.925	1.02	-0.60	-0.76	-0.84	0.50	0.31	2.56
0.950	1.08	-0.62	-0.77	-0.85	0.52	0.32	2.72
0.975	1.12	-0.65	-0.79	-0.86	0.51	0.30	2.75
1.000	1.14	-0.67	-0.81	-0.87	0.50	0.28	2.77
1.100	1.26	-0.77	-0.86	-0.90	0.46	0.20	2.66
1.200	1.67	-0.80	-0.87	-0.91	0.55	0.24	2.74
1.300	2.64	-0.81	-0.86	-0.89	0.72	0.34	2.96
1.400	3.91	-0.83	-0.87	-0.90	0.73	0.31	2.92
1.500	4.94	-0.82	-0.87	-0.89	0.69	0.26	2.51

TABLE 12a

F-N vs. Z. (H ₀ =50, Q ₀ =0, T _g =16).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.86	0.87	0.87	0.86	0.83	0.83	0.86
0.025	0.87	0.88	0.87	0.87	0.84	0.84	0.87
0.050	0.87	0.88	0.88	0.87	0.84	0.84	0.88
0.075	0.91	0.92	0.91	0.90	0.87	0.87	0.91
0.100	0.90	0.91	0.91	0.90	0.87	0.86	0.92
0.125	0.90	0.91	0.90	0.90	0.86	0.86	0.92
0.150	0.95	0.96	0.95	0.94	0.91	0.91	0.97
0.175	0.95	0.95	0.95	0.94	0.91	0.90	0.97
0.200	0.96	0.96	0.95	0.95	0.91	0.91	0.98
0.225	1.01	1.01	1.01	1.00	0.96	0.96	1.04
0.250	1.04	1.04	1.04	1.03	0.99	0.99	1.07
0.275	1.06	1.06	1.05	1.04	1.01	1.00	1.09
0.300	1.12	1.12	1.12	1.10	1.07	1.06	1.16
0.325	1.18	1.18	1.17	1.16	1.12	1.11	1.23
0.350	1.19	1.19	1.18	1.16	1.14	1.12	1.24
0.375	1.22	1.22	1.21	1.19	1.17	1.15	1.27
0.400	1.25	1.25	1.24	1.22	1.20	1.18	1.31
0.425	1.27	1.27	1.26	1.24	1.22	1.21	1.34
0.450	1.32	1.31	1.30	1.27	1.26	1.25	1.39
0.475	1.39	1.38	1.37	1.34	1.33	1.31	1.47
0.500	1.44	1.43	1.42	1.38	1.38	1.36	1.54
0.525	1.50	1.48	1.47	1.43	1.43	1.41	1.60
0.550	1.54	1.53	1.51	1.47	1.48	1.46	1.66
0.575	1.63	1.62	1.60	1.55	1.57	1.54	1.76
0.600	1.68	1.66	1.64	1.58	1.61	1.59	1.83
0.625	1.73	1.71	1.68	1.62	1.66	1.64	1.90
0.650	1.79	1.76	1.74	1.61	1.66	1.64	1.91
0.675	1.80	1.78	1.74	1.67	1.73	1.71	1.99
0.700	1.82	1.80	1.76	1.69	1.76	1.73	2.03
0.725	1.92	1.88	1.84	1.75	1.85	1.82	2.16
0.750	1.98	1.94	1.88	1.78	1.91	1.87	2.23
0.775	2.08	2.02	1.96	1.85	2.00	1.97	2.34
0.800	2.05	1.99	1.93	1.82	1.98	1.94	2.30
0.825	2.03	1.97	1.91	1.79	1.97	1.93	2.29
0.850	2.00	1.94	1.87	1.74	1.94	1.91	2.24
0.875	2.03	1.97	1.89	1.78	1.98	1.95	2.27
0.900	1.97	1.90	1.82	1.70	1.92	1.89	2.22
0.925	2.01	1.94	1.85	1.72	1.96	1.93	2.29
0.950	2.00	1.91	1.81	1.66	1.94	1.91	2.30
0.975	2.01	1.92	1.81	1.66	1.96	1.92	2.30
1.000	2.03	1.92	1.81	1.64	1.98	1.94	2.33
1.100	1.99	1.83	1.67	1.47	1.94	1.91	2.30
1.200	2.02	1.73	1.51	1.28	1.93	1.89	2.46
1.300	2.12	1.68	1.39	1.14	2.03	1.96	2.76
1.400	2.25	1.58	1.26	1.01	2.16	2.08	3.10
1.500	2.27	1.41	1.08	0.86	2.18	2.09	3.34
1.600	2.22	1.22	0.93	0.74	2.14	2.05	3.56
1.700	2.27	0.97	0.74	0.61	2.18	2.08	3.89
1.800	2.06	0.74	0.58	0.48	1.98	1.88	3.63
1.900	1.87	0.57	0.45	0.38	1.80	1.71	3.74
2.000	1.69	0.48	0.38	0.33	1.64	1.56	3.56

TABLE 13a

V-R vs. Z. (H ₀ =50, Q ₀ =0, T _g =16).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.89	0.89	0.89	0.88	0.84	0.84	0.89
0.025	0.91	0.91	0.91	0.90	0.86	0.86	0.91
0.050	0.92	0.92	0.92	0.91	0.87	0.87	0.93
0.075	0.95	0.94	0.93	0.93	0.88	0.88	0.94
0.100	0.95	0.95	0.95	0.94	0.90	0.89	0.96
0.125	0.97	0.97	0.97	0.96	0.91	0.91	0.99
0.150	0.99	1.00	0.99	0.98	0.94	0.93	1.01
0.175	1.05	1.05	1.05	1.04	0.99	0.98	1.08
0.200	1.10	1.10	1.10	1.08	1.03	1.02	1.13
0.225	1.16	1.16	1.15	1.14	1.09	1.08	1.20
0.250	1.23	1.22	1.21	1.20	1.15	1.14	1.27
0.275	1.30	1.29	1.28	1.26	1.21	1.20	1.35
0.300	1.40	1.39	1.38	1.36	1.31	1.29	1.46
0.325	1.49	1.48	1.47	1.44	1.39	1.38	1.57
0.350	1.58	1.57	1.56	1.52	1.48	1.46	1.67
0.375	1.68	1.67	1.65	1.62	1.58	1.55	1.78
0.400	1.74	1.72	1.70	1.66	1.63	1.61	1.85
0.425	1.82	1.80	1.78	1.74	1.72	1.69	1.95
0.450	1.87	1.85	1.83	1.84	1.77	1.74	2.01
0.475	1.91	1.89	1.86	1.81	1.81	1.78	2.07
0.500	1.94	1.92	1.90	1.84	1.85	1.83	2.12
0.525	1.94	1.92	1.90	1.84	1.86	1.84	2.13
0.550	1.98	1.95	1.92	1.86	1.90	1.87	2.20
0.575	1.94	1.92	1.90	1.83	1.87	1.85	2.19
0.600	1.98	1.96	1.92	1.85	1.91	1.89	2.25
0.625	1.93	1.91	1.88	1.81	1.87	1.84	2.21
0.650	1.98	1.96	1.92	1.84	1.92	1.89	2.30
0.675	1.91	1.90	1.87	1.78	1.86	1.83	2.25
0.700	1.99	1.97	1.94	1.83	1.92	1.89	2.34
0.725	1.94	1.91	1.88	1.76	1.88	1.85	2.31
0.750	2.03	1.98	1.95	1.81	1.95	1.91	2.40
0.775	1.99	1.93	1.91	1.75	1.91	1.88	2.38
0.800	2.10	2.02	1.98	1.80	2.00	1.96	2.49
0.825	2.10	2.00	1.96	1.75	2.00	1.95	2.48
0.850	2.18	2.06	2.01	1.77	2.06	2.01	2.59
0.875	2.31	2.06	1.97	1.72	2.08	2.02	2.60
0.900	2.26	2.08	1.98	1.70	2.12	2.05	2.70
0.925	2.28	2.08	1.95	1.65	2.14	2.07	2.73
0.950	2.38	2.13	1.96	1.64	2.23	2.14	2.87
0.975	2.37	2.09	1.91	1.57	2.21	2.12	2.87
1.000	2.54	2.18	1.95	1.58	2.35	2.24	3.07
1.100	2.73	2.13	1.76	1.36	2.51	2.37	3.40
1.200	2.80	1.94	1.50	1.13	2.57	2.41	3.71
1.300	2.73	1.67	1.22	0.91	2.50	2.32	3.97
1.400	2.48	1.31	0.93	0.71	2.30	2.14	4.10
1.500	2.20	0.99	0.69	0.54	2.05	1.89	4.10
1.600	2.08	0.77	0.53	0.42	1.93	1.76	4.06
1.700	1.97	0.54	0.39	0.32	1.82	1.66	4.12
1.800	1.88	0.39	0.29	0.24	1.73	1.56	4.11
1.900	1.76	0.28	0.21	0.17	1.61	1.42	4.07
2.000	1.65	0.23	0.17	0.14	1.51	1.32	3.98

TABLE 12b

F-N vs. Z. (H=100, Q=0, Tg=9).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.82	0.83	0.83	0.81	0.80	0.80	0.82
0.025	0.83	0.84	0.83	0.82	0.81	0.81	0.83
0.050	0.83	0.84	0.83	0.82	0.81	0.81	0.84
0.075	0.86	0.87	0.87	0.85	0.84	0.84	0.87
0.100	0.86	0.87	0.86	0.84	0.84	0.84	0.87
0.125	0.86	0.86	0.85	0.83	0.83	0.83	0.87
0.150	0.91	0.91	0.90	0.87	0.88	0.88	0.92
0.175	0.91	0.90	0.89	0.87	0.88	0.88	0.92
0.200	0.91	0.91	0.89	0.86	0.88	0.88	0.93
0.225	0.96	0.95	0.93	0.90	0.93	0.93	0.98
0.250	0.99	0.98	0.96	0.93	0.96	0.96	1.01
0.275	1.01	0.99	0.97	0.93	0.97	0.97	1.03
0.300	1.06	1.04	1.01	0.97	1.03	1.02	1.15
0.325	1.11	1.09	1.06	1.01	1.08	1.07	1.19
0.350	1.12	1.09	1.06	1.02	1.09	1.08	1.17
0.375	1.13	1.12	1.09	1.04	1.11	1.11	1.20
0.400	1.18	1.15	1.11	1.06	1.15	1.14	1.24
0.425	1.20	1.17	1.13	1.08	1.17	1.16	1.26
0.450	1.24	1.20	1.16	1.10	1.21	1.20	1.31
0.475	1.30	1.26	1.21	1.15	1.27	1.26	1.38
0.500	1.35	1.30	1.25	1.18	1.31	1.30	1.44
0.525	1.39	1.34	1.28	1.21	1.36	1.35	1.49
0.550	1.43	1.37	1.31	1.23	1.40	1.39	1.54
0.575	1.51	1.45	1.38	1.30	1.48	1.47	1.64
0.600	1.55	1.48	1.41	1.33	1.52	1.51	1.69
0.625	1.60	1.52	1.45	1.35	1.56	1.55	1.75
0.650	1.60	1.52	1.44	1.34	1.57	1.55	1.75
0.675	1.67	1.58	1.50	1.40	1.64	1.62	1.83
0.700	1.69	1.61	1.52	1.42	1.67	1.65	1.85
0.725	1.77	1.66	1.57	1.45	1.74	1.72	1.95
0.750	1.81	1.70	1.60	1.48	1.79	1.77	2.01
0.775	1.89	1.77	1.66	1.54	1.87	1.85	2.11
0.800	1.87	1.73	1.64	1.53	1.85	1.84	2.08
0.825	1.86	1.73	1.62	1.50	1.84	1.83	2.06
0.850	1.85	1.72	1.61	1.49	1.83	1.82	2.06
0.875	1.89	1.75	1.63	1.51	1.87	1.86	2.05
0.900	1.83	1.69	1.57	1.49	1.82	1.81	1.99
0.925	1.88	1.71	1.58	1.45	1.86	1.85	2.04
0.950	1.85	1.66	1.51	1.37	1.84	1.82	2.03
0.975	1.88	1.68	1.53	1.39	1.86	1.85	2.03
1.000	1.89	1.66	1.51	1.36	1.87	1.86	2.06
1.100	1.85	1.52	1.38	1.20	1.83	1.81	2.00
1.200	1.80	1.33	1.14	1.00	1.78	1.76	2.13
1.300	1.87	1.20	1.00	0.86	1.84	1.82	2.36
1.400	2.01	1.10	0.90	0.76	1.97	1.95	2.69
1.500	2.04	0.98	0.79	0.67	2.00	1.97	2.71
1.600	1.98	0.85	0.69	0.59	1.94	1.91	3.06
1.700	1.72	0.79	0.59	0.50	1.72	1.70	3.43
1.800	1.80	0.88	0.68	0.42	1.76	1.72	3.20
1.900	1.60	0.46	0.39	0.34	1.57	1.54	3.38
2.000	1.41	0.40	0.34	0.30	1.40	1.38	3.38

TABLE 14a

V-K vs. Z. (He=50, G ₀ =0, T _g =16).								
Z	C	0.70	0.60	0.50	H81	H82	N.E.	
0.000	3.29	3.36	3.34	3.32	3.23	3.23	3.29	
0.025	3.39	3.45	3.43	3.42	3.33	3.32	3.40	
0.050	3.48	3.54	3.52	3.50	3.41	3.41	3.49	
0.075	3.57	3.63	3.61	3.59	3.50	3.49	3.59	
0.100	3.65	3.71	3.69	3.67	3.58	3.58	3.68	
0.125	3.74	3.80	3.79	3.76	3.67	3.66	3.78	
0.150	3.84	3.90	3.88	3.86	3.76	3.75	3.89	
0.175	3.93	4.01	3.99	3.96	3.86	3.85	4.00	
0.200	4.06	4.11	4.09	4.07	3.96	3.95	4.12	
0.225	4.17	4.22	4.20	4.17	4.06	4.05	4.24	
0.250	4.28	4.33	4.31	4.28	4.17	4.15	4.37	
0.275	4.40	4.45	4.43	4.40	4.28	4.27	4.50	
0.300	4.54	4.59	4.56	4.52	4.41	4.39	4.65	
0.325	4.68	4.72	4.70	4.65	4.54	4.52	4.81	
0.350	4.81	4.86	4.83	4.78	4.67	4.64	4.96	
0.375	4.94	4.98	4.95	4.89	4.79	4.76	5.10	
0.400	5.06	5.10	5.07	5.00	4.91	4.88	5.24	
0.425	5.18	5.22	5.18	5.11	5.03	4.99	5.38	
0.450	5.28	5.32	5.28	5.20	5.13	5.09	5.51	
0.475	5.37	5.41	5.36	5.28	5.23	5.19	5.62	
0.500	5.46	5.49	5.44	5.35	5.31	5.27	5.73	
0.525	5.53	5.56	5.51	5.41	5.39	5.35	5.83	
0.550	5.60	5.63	5.58	5.47	5.46	5.42	5.93	
0.575	5.66	5.68	5.62	5.51	5.52	5.48	6.02	
0.600	5.72	5.75	5.68	5.56	5.59	5.54	6.12	
0.625	5.77	5.80	5.73	5.59	5.64	5.60	6.20	
0.650	5.84	5.87	5.79	5.64	5.71	5.66	6.31	
0.675	5.91	5.93	5.85	5.68	5.77	5.72	6.41	
0.700	5.97	5.99	5.90	5.71	5.84	5.78	6.50	
0.725	6.07	6.08	5.95	5.75	5.92	5.86	6.62	
0.750	6.15	6.13	6.00	5.78	6.00	5.93	6.72	
0.775	6.23	6.20	6.06	5.81	6.09	6.01	6.84	
0.800	6.36	6.29	6.13	5.85	6.19	6.11	6.98	
0.825	6.47	6.38	6.19	5.89	6.29	6.20	7.11	
0.850	6.59	6.46	6.25	5.92	6.39	6.29	7.25	
0.875	6.70	6.54	6.30	5.94	6.50	6.39	7.39	
0.900	6.77	6.60	6.31	5.95	6.56	6.45	7.52	
0.925	6.87	6.64	6.34	5.93	6.66	6.53	7.65	
0.950	6.97	6.70	6.37	5.93	6.75	6.62	7.82	
0.975	7.05	6.74	6.38	5.92	6.83	6.69	7.97	
1.000	7.20	6.83	6.43	5.93	6.96	6.81	8.14	
1.100	7.56	6.92	6.39	5.83	7.30	7.12	8.77	
1.200	7.83	6.89	6.26	5.67	7.56	7.35	9.37	
1.300	7.94	6.64	6.07	5.48	7.68	7.46	9.78	
1.400	7.86	6.44	5.78	5.23	7.65	7.45	10.39	
1.500	7.85	6.21	5.56	5.04	7.67	7.47	10.78	
1.600	7.89	5.97	5.33	4.83	7.72	7.51	11.21	
1.700	7.88	5.55	4.99	4.56	7.72	7.53	11.64	
1.800	7.91	5.25	4.72	4.33	7.75	7.55	12.07	
1.900	7.94	5.00	4.50	4.14	7.78	7.57	12.48	
2.000	7.93	4.77	4.30	3.96	7.78	7.57	12.83	

TABLE 14b

V-K vs. Z. (He=100, G ₀ =0, T _g =9).								
Z	C	0.70	0.60	0.50	H81	H82	N.E.	
0.000	3.22	3.29	3.27	3.24	3.18	3.18	3.22	
0.025	3.31	3.38	3.36	3.32	3.27	3.27	3.32	
0.050	3.40	3.47	3.44	3.40	3.36	3.36	3.41	
0.075	3.48	3.55	3.52	3.46	3.44	3.44	3.51	
0.100	3.57	3.63	3.60	3.56	3.52	3.52	3.59	
0.125	3.66	3.72	3.69	3.63	3.61	3.60	3.68	
0.150	3.76	3.81	3.77	3.71	3.70	3.70	3.78	
0.175	3.86	3.91	3.87	3.80	3.80	3.79	3.89	
0.200	3.96	4.01	3.96	3.88	3.90	3.89	4.00	
0.225	4.07	4.10	4.05	3.97	4.00	3.99	4.11	
0.250	4.18	4.20	4.14	4.05	4.10	4.09	4.22	
0.275	4.29	4.31	4.24	4.13	4.21	4.19	4.34	
0.300	4.41	4.42	4.34	4.22	4.32	4.31	4.48	
0.325	4.53	4.53	4.44	4.32	4.44	4.42	4.62	
0.350	4.65	4.64	4.54	4.41	4.56	4.54	4.76	
0.375	4.76	4.74	4.64	4.49	4.67	4.65	4.89	
0.400	4.87	4.84	4.73	4.58	4.78	4.75	5.01	
0.425	4.97	4.94	4.83	4.66	4.88	4.86	5.14	
0.450	5.06	5.03	4.91	4.74	4.98	4.95	5.25	
0.475	5.14	5.10	4.97	4.79	5.06	5.04	5.35	
0.500	5.21	5.17	5.03	4.85	5.14	5.12	5.44	
0.525	5.29	5.23	5.08	4.89	5.21	5.19	5.52	
0.550	5.35	5.29	5.13	4.93	5.28	5.26	5.60	
0.575	5.41	5.34	5.17	4.96	5.34	5.32	5.67	
0.600	5.48	5.39	5.22	5.00	5.41	5.39	5.75	
0.625	5.53	5.43	5.25	5.02	5.46	5.44	5.81	
0.650	5.60	5.48	5.29	5.05	5.53	5.50	5.90	
0.675	5.66	5.53	5.32	5.07	5.59	5.56	5.97	
0.700	5.71	5.56	5.34	5.08	5.64	5.61	6.05	
0.725	5.77	5.59	5.36	5.08	5.70	5.67	6.14	
0.750	5.82	5.62	5.37	5.08	5.75	5.72	6.22	
0.775	5.88	5.63	5.38	5.09	5.82	5.79	6.31	
0.800	5.93	5.69	5.40	5.09	5.89	5.85	6.42	
0.825	6.02	5.72	5.45	5.09	5.96	5.92	6.53	
0.850	6.09	5.75	5.43	5.09	6.02	5.99	6.64	
0.875	6.17	5.79	5.44	5.10	6.11	6.07	6.78	
0.900	6.23	5.80	5.44	5.09	6.16	6.13	6.87	
0.925	6.30	5.83	5.45	5.08	6.24	6.20	7.00	
0.950	6.38	5.86	5.46	5.08	6.32	6.28	7.13	
0.975	6.45	5.87	5.46	5.07	6.38	6.34	7.23	
1.000	6.55	5.71	5.45	5.07	6.48	6.44	7.41	
1.100	6.84	5.86	5.38	4.97	6.77	6.72	7.94	
1.200	7.03	5.71	5.22	4.83	6.97	6.92	8.46	
1.300	7.13	5.54	5.06	4.69	7.06	7.02	8.93	
1.400	7.16	5.38	4.91	4.55	7.10	7.05	9.30	
1.500	7.21	5.24	4.77	4.42	7.15	7.11	9.61	
1.600	7.27	5.07	4.62	4.28	7.21	7.16	10.03	
1.700	7.33	4.83	4.41	4.10	7.26	7.21	10.43	
1.800	7.39	4.61	4.21	3.93	7.32	7.26	10.90	
1.900	7.42	4.42	4.04	3.77	7.35	7.28	11.37	
2.000	7.26	4.26	3.90	3.64	7.22	7.18	11.81	

TABLE 15a

J-K vs. Z. (H ₀ =50, G ₀ =0, T _g =16).							
Z	C	0.70	0.60	0.50	H81	H82	N. E.
0.000	1.01	1.03	1.03	1.02	1.01	1.01	1.01
0.025	1.07	1.09	1.08	1.08	1.07	1.07	1.07
0.050	1.13	1.15	1.14	1.14	1.13	1.13	1.13
0.075	1.19	1.21	1.20	1.20	1.19	1.19	1.19
0.100	1.24	1.27	1.26	1.26	1.25	1.25	1.25
0.125	1.30	1.32	1.32	1.32	1.30	1.30	1.30
0.150	1.35	1.38	1.37	1.37	1.36	1.36	1.36
0.175	1.40	1.43	1.42	1.42	1.40	1.40	1.41
0.200	1.44	1.47	1.46	1.46	1.44	1.44	1.45
0.225	1.48	1.50	1.50	1.50	1.48	1.48	1.48
0.250	1.51	1.54	1.53	1.53	1.51	1.51	1.52
0.275	1.54	1.57	1.57	1.56	1.54	1.54	1.55
0.300	1.56	1.60	1.59	1.59	1.57	1.57	1.57
0.325	1.59	1.62	1.62	1.61	1.59	1.59	1.60
0.350	1.61	1.64	1.64	1.63	1.61	1.61	1.62
0.375	1.63	1.67	1.66	1.66	1.63	1.63	1.64
0.400	1.65	1.69	1.68	1.68	1.65	1.65	1.66
0.425	1.67	1.71	1.70	1.70	1.67	1.67	1.68
0.450	1.69	1.73	1.72	1.71	1.69	1.69	1.70
0.475	1.70	1.74	1.73	1.72	1.70	1.70	1.71
0.500	1.72	1.76	1.75	1.74	1.72	1.72	1.73
0.525	1.73	1.77	1.77	1.76	1.73	1.73	1.75
0.550	1.75	1.79	1.78	1.77	1.75	1.74	1.76
0.575	1.76	1.80	1.79	1.78	1.76	1.75	1.77
0.600	1.77	1.81	1.80	1.79	1.76	1.76	1.79
0.625	1.78	1.82	1.81	1.80	1.77	1.77	1.80
0.650	1.79	1.83	1.82	1.81	1.79	1.78	1.81
0.675	1.80	1.84	1.83	1.82	1.80	1.79	1.83
0.700	1.81	1.86	1.84	1.83	1.81	1.80	1.84
0.725	1.82	1.87	1.85	1.83	1.82	1.81	1.85
0.750	1.83	1.87	1.86	1.84	1.82	1.82	1.86
0.775	1.84	1.88	1.87	1.85	1.83	1.83	1.87
0.800	1.85	1.89	1.87	1.85	1.84	1.84	1.89
0.825	1.86	1.90	1.88	1.86	1.85	1.84	1.90
0.850	1.86	1.90	1.88	1.86	1.85	1.85	1.90
0.875	1.87	1.90	1.89	1.86	1.86	1.85	1.91
0.900	1.87	1.91	1.89	1.87	1.87	1.86	1.93
0.925	1.88	1.92	1.90	1.87	1.87	1.87	1.94
0.950	1.88	1.92	1.90	1.87	1.87	1.87	1.94
0.975	1.89	1.93	1.90	1.87	1.87	1.86	1.95
1.000	1.90	1.93	1.91	1.87	1.87	1.88	1.97
1.100	1.92	1.95	1.92	1.88	1.91	1.91	2.02
1.200	1.95	1.96	1.93	1.89	1.94	1.93	2.08
1.300	1.97	1.98	1.94	1.89	1.97	1.96	2.13
1.400	2.00	2.02	1.94	1.89	1.99	1.99	2.20
1.500	2.05	2.09	1.96	1.90	2.04	2.04	2.30
1.600	2.10	2.15	1.99	1.91	2.09	2.09	2.40
1.700	2.13	2.20	1.98	1.91	2.13	2.13	2.51
1.800	2.19	2.09	2.01	1.93	2.20	2.20	2.65
1.900	2.25	2.12	2.03	1.94	2.26	2.27	2.78
2.000	2.35	2.16	2.06	1.97	2.35	2.37	2.91

TABLE 16a

H-K vs. Z. (H=50, G=0, T _g =16).								
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.	
0.000	0.31	0.32	0.32	0.32	0.31	0.31	0.31	
0.025	0.35	0.36	0.36	0.35	0.35	0.35	0.35	
0.050	0.39	0.40	0.39	0.39	0.39	0.39	0.39	
0.075	0.43	0.44	0.44	0.43	0.43	0.43	0.43	
0.100	0.47	0.48	0.48	0.47	0.47	0.47	0.47	
0.125	0.51	0.52	0.52	0.51	0.51	0.51	0.51	
0.150	0.55	0.56	0.56	0.55	0.55	0.55	0.55	
0.175	0.59	0.60	0.60	0.59	0.59	0.59	0.59	
0.200	0.62	0.63	0.63	0.63	0.62	0.62	0.63	
0.225	0.65	0.66	0.66	0.66	0.66	0.66	0.66	
0.250	0.68	0.69	0.69	0.69	0.68	0.68	0.68	
0.275	0.71	0.72	0.72	0.71	0.71	0.71	0.71	
0.300	0.73	0.74	0.74	0.73	0.73	0.73	0.73	
0.325	0.75	0.77	0.76	0.76	0.76	0.76	0.76	
0.350	0.77	0.79	0.79	0.78	0.78	0.78	0.78	
0.375	0.80	0.81	0.81	0.81	0.80	0.80	0.80	
0.400	0.81	0.83	0.83	0.82	0.82	0.82	0.82	
0.425	0.83	0.85	0.85	0.84	0.83	0.83	0.84	
0.450	0.85	0.87	0.87	0.86	0.85	0.85	0.85	
0.475	0.87	0.88	0.88	0.88	0.87	0.87	0.87	
0.500	0.88	0.90	0.90	0.89	0.88	0.88	0.88	
0.525	0.89	0.91	0.91	0.91	0.89	0.89	0.89	
0.550	0.90	0.92	0.92	0.91	0.90	0.90	0.90	
0.575	0.91	0.93	0.93	0.92	0.91	0.91	0.91	
0.600	0.91	0.94	0.93	0.93	0.91	0.91	0.92	
0.625	0.92	0.95	0.94	0.94	0.92	0.92	0.92	
0.650	0.93	0.95	0.95	0.94	0.93	0.93	0.93	
0.675	0.93	0.96	0.95	0.95	0.93	0.93	0.94	
0.700	0.93	0.96	0.95	0.95	0.93	0.93	0.94	
0.725	0.94	0.96	0.96	0.95	0.94	0.94	0.94	
0.750	0.94	0.97	0.96	0.95	0.94	0.94	0.94	
0.775	0.94	0.97	0.96	0.95	0.94	0.94	0.95	
0.800	0.94	0.97	0.96	0.95	0.94	0.94	0.95	
0.825	0.94	0.97	0.96	0.95	0.94	0.94	0.95	
0.850	0.94	0.97	0.96	0.95	0.94	0.94	0.95	
0.875	0.94	0.97	0.96	0.95	0.94	0.94	0.95	
0.900	0.94	0.96	0.96	0.94	0.94	0.94	0.95	
0.925	0.94	0.96	0.96	0.94	0.94	0.94	0.95	
0.950	0.94	0.97	0.96	0.94	0.94	0.94	0.95	
0.975	0.94	0.97	0.96	0.94	0.94	0.94	0.96	
1.000	0.94	0.97	0.96	0.94	0.94	0.94	0.96	
1.100	0.96	0.98	0.97	0.95	0.95	0.95	0.99	
1.200	0.97	0.99	0.97	0.96	0.97	0.96	1.01	
1.300	0.99	1.00	0.99	0.97	0.98	0.98	1.04	
1.400	1.00	1.01	0.99	0.97	1.00	1.00	1.07	
1.500	1.02	1.03	1.01	0.98	1.02	1.02	1.11	
1.600	1.03	1.03	1.00	0.97	1.03	1.02	1.13	
1.700	1.03	1.03	1.00	0.97	1.03	1.03	1.17	
1.800	1.03	1.02	0.99	0.96	1.04	1.04	1.20	
1.900	1.03	1.01	0.97	0.94	1.04	1.04	1.23	
2.000	1.04	0.99	0.96	0.92	1.05	1.05	1.26	

TABLE 16b

H-K vs. Z. (H=100, G=0, T _g =9).								
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.	
0.000	0.31	0.32	0.32	0.32	0.31	0.31	0.31	
0.025	0.35	0.36	0.36	0.35	0.35	0.35	0.35	
0.050	0.39	0.40	0.40	0.39	0.39	0.39	0.39	
0.075	0.43	0.44	0.44	0.43	0.43	0.43	0.43	
0.100	0.47	0.48	0.48	0.47	0.47	0.47	0.47	
0.125	0.51	0.52	0.52	0.51	0.51	0.51	0.51	
0.150	0.55	0.56	0.56	0.55	0.55	0.55	0.55	
0.175	0.59	0.60	0.60	0.59	0.59	0.59	0.59	
0.200	0.63	0.63	0.63	0.63	0.63	0.63	0.63	
0.225	0.66	0.67	0.66	0.66	0.66	0.66	0.66	
0.250	0.69	0.69	0.69	0.69	0.69	0.69	0.69	
0.275	0.71	0.72	0.72	0.71	0.71	0.71	0.71	
0.300	0.74	0.75	0.74	0.74	0.74	0.74	0.74	
0.325	0.76	0.77	0.77	0.76	0.76	0.76	0.76	
0.350	0.78	0.79	0.79	0.78	0.78	0.78	0.78	
0.375	0.80	0.81	0.81	0.80	0.80	0.80	0.80	
0.400	0.82	0.83	0.83	0.82	0.82	0.82	0.82	
0.425	0.84	0.85	0.85	0.84	0.84	0.84	0.84	
0.450	0.85	0.87	0.87	0.86	0.85	0.85	0.85	
0.475	0.87	0.89	0.88	0.87	0.87	0.87	0.87	
0.500	0.88	0.90	0.90	0.89	0.88	0.88	0.88	
0.525	0.90	0.92	0.91	0.90	0.90	0.90	0.89	
0.550	0.90	0.93	0.92	0.91	0.90	0.90	0.90	
0.575	0.91	0.93	0.92	0.91	0.91	0.91	0.91	
0.600	0.92	0.94	0.93	0.92	0.92	0.92	0.91	
0.625	0.92	0.95	0.94	0.92	0.92	0.92	0.92	
0.650	0.93	0.96	0.94	0.93	0.93	0.93	0.93	
0.675	0.93	0.96	0.95	0.93	0.93	0.93	0.93	
0.700	0.94	0.96	0.95	0.93	0.94	0.94	0.94	
0.725	0.94	0.96	0.95	0.93	0.94	0.94	0.94	
0.750	0.94	0.96	0.95	0.93	0.94	0.94	0.94	
0.775	0.94	0.97	0.95	0.93	0.94	0.94	0.94	
0.800	0.94	0.97	0.95	0.93	0.94	0.94	0.94	
0.825	0.94	0.96	0.95	0.93	0.94	0.94	0.95	
0.850	0.94	0.96	0.95	0.93	0.94	0.94	0.94	
0.875	0.94	0.96	0.94	0.92	0.94	0.94	0.94	
0.900	0.94	0.93	0.94	0.92	0.94	0.93	0.94	
0.925	0.94	0.93	0.94	0.92	0.94	0.93	0.94	
0.950	0.94	0.93	0.94	0.92	0.94	0.94	0.95	
0.975	0.94	0.96	0.94	0.92	0.94	0.94	0.95	
1.000	0.94	0.95	0.94	0.92	0.94	0.94	0.95	
1.100	0.95	0.96	0.94	0.92	0.95	0.94	0.97	
1.200	0.96	0.96	0.94	0.92	0.95	0.95	0.99	
1.300	0.96	0.97	0.95	0.92	0.96	0.96	1.01	
1.400	0.97	0.97	0.95	0.93	0.97	0.97	1.04	
1.500	0.99	0.99	0.96	0.93	0.99	0.99	1.07	
1.600	0.99	0.98	0.95	0.92	1.00	1.00	1.09	
1.700	1.01	0.96	0.93	0.91	1.01	1.02	1.12	
1.800	1.02	0.94	0.91	0.89	1.03	1.03	1.19	
1.900	1.02	0.92	0.89	0.87	1.03	1.03	1.17	
2.000	1.01	0.91	0.88	0.85	1.02	1.03	1.20	

TABLE 17a

B(Z)-B(O) vs. Z. (Ho=50, Go=0, Tg=16).								
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.	
0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.025	0.10	0.10	0.10	0.09	0.09	0.08	0.13	
0.050	0.20	0.20	0.20	0.19	0.19	0.18	0.27	
0.075	0.31	0.31	0.30	0.29	0.30	0.27	0.41	
0.100	0.43	0.42	0.41	0.40	0.41	0.38	0.56	
0.125	0.54	0.54	0.53	0.51	0.52	0.49	0.71	
0.150	0.66	0.65	0.64	0.61	0.64	0.59	0.86	
0.175	0.77	0.76	0.74	0.71	0.75	0.69	1.01	
0.200	0.87	0.85	0.84	0.80	0.85	0.78	1.15	
0.225	0.97	0.94	0.92	0.88	0.94	0.87	1.28	
0.250	1.05	1.03	1.00	0.95	1.03	0.95	1.41	
0.275	1.15	1.11	1.08	1.02	1.12	1.03	1.54	
0.300	1.22	1.18	1.14	1.08	1.20	1.10	1.67	
0.325	1.32	1.26	1.22	1.15	1.29	1.19	1.81	
0.350	1.37	1.31	1.27	1.18	1.35	1.24	1.91	
0.375	1.44	1.39	1.34	1.24	1.43	1.31	2.05	
0.400	1.50	1.44	1.39	1.28	1.49	1.36	2.17	
0.425	1.58	1.52	1.46	1.34	1.57	1.43	2.32	
0.450	1.64	1.58	1.51	1.37	1.64	1.49	2.45	
0.475	1.76	1.68	1.61	1.44	1.74	1.58	2.61	
0.500	1.83	1.75	1.66	1.47	1.82	1.65	2.76	
0.525	1.96	1.86	1.76	1.54	1.93	1.75	2.93	
0.550	2.06	1.95	1.84	1.58	2.02	1.83	3.11	
0.575	2.16	2.04	1.90	1.61	2.12	1.92	3.26	
0.600	2.32	2.18	2.01	1.65	2.26	2.04	3.50	
0.625	2.41	2.25	2.05	1.66	2.34	2.11	3.64	
0.650	2.59	2.39	2.15	1.69	2.49	2.24	3.88	
0.675	2.69	2.46	2.19	1.69	2.58	2.32	4.04	
0.700	2.84	2.56	2.24	1.68	2.70	2.42	4.26	
0.725	2.97	2.62	2.24	1.63	2.80	2.50	4.44	
0.750	3.14	2.70	2.25	1.59	2.92	2.60	4.64	
0.775	3.27	2.70	2.21	1.53	2.98	2.64	4.79	
0.800	3.40	2.78	2.22	1.49	3.10	2.73	5.01	
0.825	3.58	2.83	2.21	1.44	3.21	2.81	5.21	
0.850	3.67	2.84	2.17	1.39	3.27	2.86	5.36	
0.875	3.79	2.80	2.08	1.29	3.35	2.90	5.56	
0.900	3.83	2.73	1.98	1.19	3.38	2.92	5.71	
0.925	3.90	2.67	1.89	1.10	3.42	2.94	5.86	
0.950	3.97	2.62	1.81	1.02	3.47	2.97	6.00	
0.975	4.04	2.57	1.73	0.94	3.51	2.99	6.13	
1.000	4.12	2.52	1.66	0.86	3.56	3.02	6.36	
1.025	4.27	2.45	1.59	0.79	3.61	3.05	6.59	
1.200	3.92	1.75	0.86	0.15	3.54	2.94	7.35	
1.300	3.68	1.40	0.52	-0.15	3.54	2.91	7.84	
1.400	3.89	0.94	0.12	-0.48	3.58	2.88	8.38	
1.500	4.07	0.61	-0.18	-0.74	3.67	2.88	8.84	
1.600	4.29	0.28	-0.46	-0.98	3.77	2.89	9.22	
1.700	4.45	-0.22	-0.85	-1.28	3.83	2.93	9.57	
1.800	4.74	-0.55	-1.13	-1.51	3.91	2.97	9.65	
1.900	5.16	-0.81	-1.35	-1.67	4.06	3.04	9.80	
2.000	5.52	-1.05	-1.55	-1.86	4.16	3.00	9.93	

TABLE 18a

V(Z)-V(0) vs. Z. (Ho=50, G₀=0, T_g=16).

Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.025	0.02	0.02	0.02	0.02	0.01	0.01	0.03
0.050	0.04	0.04	0.04	0.03	0.04	0.03	0.09
0.075	0.06	0.06	0.05	0.03	0.06	0.04	0.14
0.100	0.08	0.08	0.07	0.04	0.08	0.06	0.18
0.125	0.10	0.10	0.09	0.08	0.11	0.08	0.23
0.150	0.14	0.14	0.13	0.11	0.15	0.11	0.30
0.175	0.19	0.18	0.17	0.16	0.19	0.15	0.37
0.200	0.24	0.24	0.22	0.20	0.25	0.19	0.45
0.225	0.30	0.29	0.28	0.25	0.30	0.24	0.54
0.250	0.37	0.36	0.34	0.32	0.37	0.30	0.64
0.275	0.45	0.44	0.42	0.39	0.45	0.37	0.76
0.300	0.55	0.53	0.51	0.47	0.54	0.46	0.89
0.325	0.66	0.63	0.61	0.56	0.64	0.55	1.03
0.350	0.76	0.73	0.70	0.65	0.74	0.64	1.16
0.375	0.85	0.82	0.79	0.73	0.84	0.73	1.29
0.400	0.94	0.91	0.87	0.80	0.93	0.81	1.42
0.425	1.02	0.99	0.95	0.88	1.02	0.89	1.55
0.450	1.10	1.07	1.02	0.94	1.10	0.97	1.67
0.475	1.16	1.13	1.08	0.99	1.17	1.03	1.78
0.500	1.22	1.18	1.13	1.03	1.23	1.09	1.88
0.525	1.28	1.23	1.18	1.07	1.29	1.14	1.98
0.550	1.32	1.26	1.22	1.10	1.33	1.19	2.07
0.575	1.36	1.31	1.24	1.12	1.39	1.23	2.16
0.600	1.41	1.36	1.28	1.15	1.44	1.28	2.26
0.625	1.44	1.39	1.31	1.16	1.48	1.32	2.34
0.650	1.49	1.44	1.35	1.19	1.54	1.37	2.44
0.675	1.54	1.49	1.39	1.21	1.59	1.41	2.54
0.700	1.60	1.53	1.43	1.23	1.64	1.46	2.64
0.725	1.67	1.59	1.47	1.25	1.72	1.52	2.76
0.750	1.74	1.64	1.50	1.26	1.78	1.57	2.86
0.775	1.82	1.70	1.54	1.28	1.86	1.64	3.00
0.800	1.93	1.77	1.60	1.31	1.95	1.72	3.13
0.825	2.02	1.84	1.65	1.33	2.04	1.80	3.26
0.850	2.13	1.92	1.70	1.35	2.13	1.88	3.41
0.875	2.23	1.98	1.73	1.35	2.23	1.97	3.55
0.900	2.28	2.01	1.73	1.33	2.28	2.01	3.69
0.925	2.37	2.06	1.78	1.32	2.37	2.09	3.85
0.950	2.46	2.11	1.76	1.31	2.46	2.16	4.00
0.975	2.53	2.14	1.77	1.29	2.53	2.22	4.15
1.000	2.68	2.22	1.80	1.29	2.66	2.34	4.33
1.100	3.00	2.27	1.72	1.15	2.76	2.60	4.98
1.200	3.21	2.19	1.54	0.94	3.18	2.78	5.60
1.300	3.28	2.00	1.31	0.72	3.27	2.84	6.18
1.400	3.13	1.45	0.97	0.43	3.19	2.76	6.5
1.500	3.08	1.38	0.71	0.20	3.16	2.72	7.06
1.600	3.09	1.09	0.44	-0.03	3.19	2.73	7.50
1.700	3.08	0.65	0.07	-0.33	3.19	2.76	7.96
1.800	3.12	0.31	-0.22	-0.58	3.23	2.80	8.42
1.900	3.14	0.05	-0.46	-0.79	3.25	2.81	8.85
2.000	3.05	-0.21	-0.68	-0.98	3.19	2.73	9.23

TABLE 19a

F(Z)-F(0) vs. Z. (Ho=50, G₀=0, T_g=16).

Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.025	0.00	0.00	0.00	0.00	0.01	0.00	0.03
0.050	0.01	0.01	0.01	0.01	0.02	0.01	0.06
0.075	0.02	0.02	0.02	0.02	0.03	0.01	0.10
0.100	0.04	0.04	0.04	0.03	0.05	0.03	0.14
0.125	0.05	0.05	0.05	0.04	0.07	0.04	0.18
0.150	0.07	0.07	0.06	0.05	0.09	0.05	0.22
0.175	0.09	0.09	0.08	0.07	0.11	0.07	0.27
0.200	0.12	0.11	0.10	0.09	0.14	0.09	0.31
0.225	0.14	0.14	0.13	0.11	0.16	0.11	0.37
0.250	0.18	0.17	0.16	0.14	0.20	0.14	0.43
0.275	0.22	0.21	0.19	0.17	0.24	0.17	0.50
0.300	0.27	0.26	0.24	0.21	0.29	0.21	0.57
0.325	0.32	0.31	0.29	0.25	0.34	0.26	0.65
0.350	0.36	0.34	0.32	0.28	0.38	0.29	0.72
0.375	0.38	0.37	0.34	0.30	0.41	0.31	0.77
0.400	0.42	0.40	0.37	0.32	0.45	0.35	0.83
0.425	0.46	0.44	0.41	0.36	0.49	0.38	0.91
0.450	0.51	0.49	0.45	0.40	0.54	0.43	0.99
0.475	0.56	0.54	0.50	0.44	0.60	0.47	1.08
0.500	0.62	0.60	0.56	0.49	0.66	0.53	1.17
0.525	0.67	0.67	0.62	0.54	0.73	0.59	1.28
0.550	0.77	0.74	0.69	0.60	0.81	0.66	1.40
0.575	0.85	0.81	0.75	0.66	0.88	0.73	1.51
0.600	0.91	0.87	0.81	0.70	0.95	0.80	1.62
0.625	0.98	0.93	0.86	0.74	1.02	0.85	1.73
0.650	1.03	0.98	0.91	0.78	1.07	0.91	1.82
0.675	1.10	1.05	0.97	0.83	1.14	0.97	1.93
0.700	1.18	1.12	1.03	0.87	1.22	1.04	2.05
0.725	1.26	1.19	1.09	0.92	1.31	1.12	2.18
0.750	1.37	1.28	1.17	0.98	1.41	1.21	2.33
0.775	1.47	1.36	1.23	1.03	1.51	1.30	2.47
0.800	1.49	1.37	1.24	1.03	1.54	1.33	2.52
0.825	1.52	1.40	1.26	1.04	1.58	1.36	2.57
0.850	1.56	1.43	1.28	1.06	1.62	1.40	2.62
0.875	1.61	1.46	1.30	1.06	1.67	1.45	2.72
0.900	1.66	1.50	1.32	1.07	1.73	1.50	2.82
0.925	1.70	1.52	1.33	1.06	1.77	1.53	2.93
0.950	1.72	1.53	1.33	1.05	1.79	1.55	3.00
0.975	1.75	1.55	1.33	1.04	1.83	1.59	3.07
1.000	1.80	1.58	1.35	1.04	1.88	1.63	3.16
1.100	1.76	1.64	1.34	0.97	2.05	1.78	3.54
1.200	2.16	1.69	1.30	0.87	2.26	1.96	4.03
1.300	2.35	1.70	1.23	0.77	2.45	2.13	4.58
1.400	2.52	1.59	1.05	0.58	2.65	2.30	5.17
1.500	2.68	1.47	0.88	0.41	2.81	2.44	5.77
1.600	2.68	1.24	0.65	0.21	2.83	2.46	6.22
1.700	2.82	0.89	0.35	-0.04	2.98	2.61	6.91
1.800	2.80	0.59	0.08	-0.26	2.96	2.62	7.23
1.900	2.77	0.33	-0.14	-0.46	2.98	2.62	7.63
2.000	2.60	0.10	-0.36	-0.65	2.81	2.47	7.85

TABLE 18b

V(Z)-V(0) vs. Z. (Ho=100, G₀=0, T_g=9).

Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.025	0.02	0.01	0.01	0.01	0.02	0.01	0.04
0.050	0.03	0.03	0.02	0.01	0.04	0.03	0.08
0.075	0.05	0.04	0.03	0.02	0.06	0.04	0.12
0.100	0.07	0.06	0.04	0.02	0.08	0.05	0.16
0.125	0.09	0.07	0.06	0.03	0.10	0.07	0.21
0.150	0.12	0.10	0.08	0.05	0.13	0.10	0.26
0.175	0.16	0.14	0.11	0.07	0.18	0.13	0.33
0.200	0.21	0.18	0.15	0.10	0.23	0.18	0.40
0.225	0.27	0.23	0.19	0.13	0.28	0.23	0.48
0.250	0.34	0.29	0.24	0.17	0.35	0.28	0.57
0.275	0.41	0.35	0.29	0.22	0.42	0.35	0.67
0.300	0.49	0.42	0.35	0.27	0.50	0.42	0.79
0.325	0.58	0.49	0.42	0.32	0.59	0.50	0.91
0.350	0.66	0.57	0.49	0.38	0.68	0.58	1.03
0.375	0.74	0.64	0.56	0.44	0.76	0.66	1.15
0.400	0.83	0.72	0.62	0.50	0.85	0.75	1.27
0.425	0.91	0.79	0.69	0.56	0.93	0.83	1.38
0.450	0.97	0.85	0.75	0.61	1.01	0.90	1.48
0.475	1.03	0.90	0.79	0.65	1.07	0.95	1.58
0.500	1.08	0.94	0.82	0.68	1.13	1.01	1.66
0.525	1.13	0.98	0.86	0.70	1.19	1.06	1.74
0.550	1.18	1.02	0.88	0.73	1.24	1.11	1.81
0.575	1.22	1.05	0.91	0.74	1.29	1.15	1.88
0.600	1.27	1.09	0.94	0.76	1.34	1.20	1.96
0.625	1.31	1.12	0.95	0.77	1.38	1.24	2.02
0.650	1.36	1.16	0.98	0.79	1.44	1.29	2.10
0.675	1.41	1.19	1.00	0.79	1.49	1.34	2.18
0.700	1.45	1.21	1.01	0.80	1.53	1.38	2.26
0.725	1.49	1.23	1.02	0.79	1.58	1.42	2.35
0.750	1.53	1.24	1.02	0.79	1.62	1.46	2.43
0.775	1.58	1.27	1.02	0.78	1.68	1.50	2.53
0.800	1.64	1.29	1.03	0.78	1.74	1.56	2.65
0.825	1.70	1.32	1.04	0.78	1.80	1.62	2.76
0.850	1.75	1.34	1.04	0.77	1.86	1.67	2.87
0.875	1.83	1.37	1.06	0.77	1.94	1.73	3.02
0.900	1.88	1.38	1.05	0.76	1.99	1.79	3.11
0.925	1.94	1.41	1.05	0.75	2.06	1.86	3.23
0.950	2.02	1.43	1.06	0.74	2.13	1.93	3.38
0.975	2.08	1.44	1.05	0.73	2.19	1.98	3.49
1.000	2.17	1.47	1.06	0.72	2.29	2.07	3.68
1.100	2.46	1.41	0.96	0.62	2.58	2.35	4.22
1.200	2.68	1.25	0.79	0.47	2.80	2.58	4.76
1.300	2.77	1.06	0.61	0.32	2.89	2.68	5.25
1.400	2.81	0.89	0.45	0.17	2.93	2.72	5.63
1.500	2.82	0.73	0.29	0.03	2.96	2.74	5.95
1.600	2.83	0.56	0.13	-0.12	2.97	2.74	6.38
1.700	2.84	0.32	-0.07	-0.29	3.00	2.75	6.80
1.800	2.88	0.12	-0.25	-0.45	3.03	2.76	7.30
1.900	2.88	-0.06	-0.41	-0.59	3.04	2.76	7.79
2.000	2.72	-0.23	-0.56	-0.72	2.91	2.70	8.28

TABLE 20a

K(Z)-K(0) vs. Z. (Ho=50, G=0, Tg=16).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.025	-0.07	-0.07	-0.07	-0.08	-0.07	-0.08	-0.09
0.050	-0.13	-0.14	-0.15	-0.15	-0.14	-0.15	-0.11
0.075	-0.22	-0.21	-0.22	-0.22	-0.20	-0.22	-0.16
0.100	-0.28	-0.28	-0.28	-0.29	-0.29	-0.28	-0.21
0.125	-0.35	-0.34	-0.35	-0.36	-0.32	-0.35	-0.25
0.150	-0.41	-0.41	-0.42	-0.43	-0.38	-0.41	-0.30
0.175	-0.47	-0.47	-0.47	-0.49	-0.43	-0.47	-0.34
0.200	-0.52	-0.52	-0.53	-0.54	-0.48	-0.52	-0.37
0.225	-0.57	-0.57	-0.58	-0.60	-0.52	-0.57	-0.40
0.250	-0.62	-0.62	-0.63	-0.64	-0.56	-0.62	-0.43
0.275	-0.66	-0.66	-0.67	-0.69	-0.60	-0.67	-0.48
0.300	-0.69	-0.70	-0.71	-0.73	-0.63	-0.70	-0.47
0.325	-0.73	-0.73	-0.75	-0.77	-0.66	-0.73	-0.49
0.350	-0.76	-0.77	-0.78	-0.81	-0.69	-0.76	-0.50
0.375	-0.80	-0.80	-0.82	-0.84	-0.72	-0.80	-0.51
0.400	-0.83	-0.84	-0.85	-0.88	-0.75	-0.83	-0.53
0.425	-0.86	-0.87	-0.89	-0.91	-0.78	-0.86	-0.54
0.450	-0.89	-0.90	-0.91	-0.94	-0.80	-0.89	-0.54
0.475	-0.91	-0.92	-0.94	-0.97	-0.82	-0.92	-0.55
0.500	-0.94	-0.95	-0.97	-1.00	-0.84	-0.94	-0.56
0.525	-0.96	-0.97	-0.99	-1.02	-0.86	-0.97	-0.56
0.550	-0.98	-1.00	-1.02	-1.04	-0.88	-0.99	-0.57
0.575	-1.02	-1.04	-1.06	-1.09	-0.91	-1.03	-0.57
0.600	-1.02	-1.04	-1.06	-1.09	-0.91	-1.03	-0.57
0.625	-1.04	-1.05	-1.08	-1.11	-0.93	-1.05	-0.57
0.650	-1.05	-1.07	-1.10	-1.13	-0.94	-1.06	-0.57
0.675	-1.07	-1.09	-1.11	-1.14	-0.95	-1.07	-0.57
0.700	-1.08	-1.10	-1.13	-1.16	-0.96	-1.09	-0.57
0.725	-1.10	-1.12	-1.15	-1.18	-0.97	-1.11	-0.57
0.750	-1.12	-1.14	-1.16	-1.20	-0.99	-1.12	-0.56
0.775	-1.13	-1.15	-1.18	-1.21	-1.00	-1.14	-0.56
0.800	-1.14	-1.16	-1.19	-1.23	-1.01	-1.15	-0.56
0.825	-1.16	-1.18	-1.21	-1.24	-1.02	-1.16	-0.55
0.850	-1.17	-1.19	-1.22	-1.25	-1.02	-1.16	-0.55
0.875	-1.18	-1.20	-1.23	-1.26	-1.03	-1.19	-0.54
0.900	-1.19	-1.21	-1.24	-1.28	-1.04	-1.20	-0.54
0.925	-1.20	-1.22	-1.26	-1.29	-1.05	-1.21	-0.53
0.950	-1.21	-1.23	-1.27	-1.30	-1.06	-1.22	-0.53
0.975	-1.22	-1.24	-1.28	-1.31	-1.07	-1.23	-0.52
1.000	-1.23	-1.25	-1.29	-1.32	-1.07	-1.24	-0.52
1.100	-1.27	-1.30	-1.33	-1.36	-1.10	-1.29	-0.50
1.200	-1.32	-1.34	-1.38	-1.40	-1.14	-1.34	-0.48
1.300	-1.36	-1.38	-1.42	-1.44	-1.18	-1.39	-0.46
1.400	-1.42	-1.43	-1.46	-1.48	-1.22	-1.45	-0.44
1.500	-1.48	-1.48	-1.51	-1.52	-1.27	-1.51	-0.43
1.600	-1.51	-1.51	-1.54	-1.55	-1.30	-1.54	-0.41
1.700	-1.51	-1.55	-1.58	-1.59	-1.37	-1.55	-0.39
1.800	-1.50	-1.58	-1.60	-1.59	-1.29	-1.52	-0.36
1.900	-1.51	-1.60	-1.62	-1.60	-1.29	-1.53	-0.33
2.000	-1.59	-1.62	-1.64	-1.62	-1.36	-1.61	-0.30

TABLE 21a

14 vs. Z. (Ho=50, G=0, Tg=16).							
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	15.1	14.5	14.1	12.2	10.5	9.7	8.6
0.050	20.6	19.9	19.4	17.4	15.8	15.2	14.0
0.100	22.1	21.4	20.8	18.6	17.2	16.7	15.5
0.150	23.0	22.2	21.5	19.3	18.0	17.6	16.4
0.200	23.6	22.9	22.0	19.8	18.6	18.2	17.0
0.250	24.2	23.4	22.4	20.1	19.0	18.8	17.5
0.300	24.7	23.9	22.7	20.5	19.5	19.3	18.0
0.350	25.1	24.3	23.0	20.8	19.8	19.8	18.4
0.400	25.5	24.6	23.1	21.0	20.2	20.2	18.8
0.450	25.9	25.0	23.3	21.3	20.6	20.7	19.2
0.500	26.2	25.3	23.5	21.5	20.9	21.1	19.6
0.550	26.5	25.5	23.7	21.8	21.3	21.5	20.0
0.600	26.8	25.7	23.8	22.1	21.6	21.9	20.4
0.650	27.1	26.0	24.0	22.3	21.9	22.3	20.7
0.700	27.4	26.2	24.1	22.5	22.2	22.6	21.0
0.750	27.6	26.3	24.2	22.6	22.4	22.8	21.3
0.800	27.8	26.4	24.2	22.8	22.5	23.0	21.5
0.850	28.1	26.5	24.3	22.8	22.7	23.2	21.7
0.900	28.2	26.4	24.2	22.9	22.8	23.4	21.8
0.950	28.3	26.4	24.2	22.9	22.9	23.5	22.0
1.000	28.5	26.4	24.2	23.0	23.0	23.6	22.2
1.050	28.6	26.3	24.2	23.1	23.1	23.8	22.3
1.100	28.7	26.2	24.1	23.1	23.2	23.9	22.5
1.150	28.7	26.0	24.1	23.2	23.3	24.1	22.6
1.200	28.7	26.0	24.1	23.2	23.4	24.2	22.8
1.250	28.7	26.0	24.1	23.3	23.5	24.3	23.0
1.300	28.7	25.9	24.1	23.3	23.6	24.5	23.1
1.350	28.7	25.9	24.1	23.4	23.7	24.6	23.3
1.400	28.6	25.6	24.1	23.3	23.8	24.7	23.4
1.450	28.6	25.6	24.1	23.3	23.9	24.8	23.5
1.500	28.7	25.6	24.1	23.6	24.0	24.9	23.7
1.550	28.7	25.6	24.2	23.6	24.0	25.0	23.8
1.600	28.5	25.5	24.2	23.7	24.1	25.2	24.0
1.650	28.1	25.4	24.2	23.8	24.2	25.3	24.1
1.700	27.9	25.3	24.2	23.9	24.3	25.4	24.3
1.750	27.8	25.3	24.2	23.9	24.4	25.5	24.4
1.800	27.7	25.2	24.2	24.0	24.5	25.6	24.5
1.850	27.6	25.2	24.3	24.1	24.6	25.7	24.6
1.900	27.6	25.3	24.3	24.2	24.8	25.9	24.8
1.950	27.6	25.3	24.4	24.2	24.9	26.0	25.0
2.000	27.5	25.3	24.5	24.3	25.0	26.1	25.1
2.100	27.3	25.3	24.5	24.5	25.2	26.4	25.4
2.200	27.2	25.3	24.6	24.6	25.3	26.6	25.7
2.300	26.9	25.2	24.7	24.8	25.3	26.8	26.0
2.400	26.7	25.2	24.7	24.9	25.4	26.9	26.2
2.500	26.6	25.2	24.8	25.0	25.8	27.1	26.4
2.600	26.3	25.1	24.8	25.1	25.9	27.3	26.6
2.700	26.1	25.1	24.9	25.2	26.0	27.4	26.9
2.800	26.0	25.1	24.9	25.3	26.1	27.5	27.1
2.900	25.8	25.0	24.9	25.3	26.3	27.7	27.3
3.000	25.6	25.0	25.0	25.4	26.4	27.8	27.5

TABLE 20b

K(Z)-K(0) vs. Z. (Ho=100, Go=0, Tg=9).							
Z	C	0.70	0.60	0.50	HB1	HB2	N.E.
0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.025	-0.07	-0.07	-0.08	-0.08	-0.07	-0.07	-0.05
0.050	-0.14	-0.15	-0.15	-0.15	-0.13	-0.14	-0.11
0.075	-0.21	-0.22	-0.22	-0.23	-0.20	-0.21	-0.16
0.100	-0.28	-0.29	-0.29	-0.29	-0.26	-0.28	-0.21
0.125	-0.35	-0.35	-0.36	-0.36	-0.32	-0.35	-0.25
0.150	-0.41	-0.42	-0.43	-0.43	-0.38	-0.41	-0.30
0.175	-0.47	-0.48	-0.49	-0.49	-0.44	-0.47	-0.34
0.200	-0.53	-0.53	-0.54	-0.55	-0.48	-0.53	-0.37
0.225	-0.57	-0.58	-0.59	-0.59	-0.53	-0.58	-0.40
0.250	-0.62	-0.63	-0.63	-0.64	-0.57	-0.62	-0.43
0.275	-0.66	-0.67	-0.68	-0.68	-0.60	-0.66	-0.45
0.300	-0.70	-0.71	-0.72	-0.72	-0.64	-0.70	-0.47
0.325	-0.73	-0.74	-0.75	-0.75	-0.67	-0.74	-0.49
0.350	-0.76	-0.78	-0.79	-0.79	-0.69	-0.77	-0.50
0.375	-0.79	-0.81	-0.81	-0.81	-0.72	-0.80	-0.51
0.400	-0.82	-0.83	-0.84	-0.84	-0.74	-0.82	-0.52
0.425	-0.84	-0.86	-0.87	-0.86	-0.76	-0.85	-0.53
0.450	-0.86	-0.88	-0.89	-0.89	-0.78	-0.87	-0.54
0.475	-0.89	-0.91	-0.92	-0.91	-0.80	-0.90	-0.55
0.500	-0.91	-0.93	-0.94	-0.93	-0.82	-0.92	-0.56
0.525	-0.93	-0.95	-0.96	-0.95	-0.84	-0.94	-0.56
0.550	-0.95	-0.97	-0.98	-0.97	-0.86	-0.96	-0.56
0.575	-0.97	-0.99	-1.00	-0.98	-0.87	-0.98	-0.57
0.600	-0.99	-1.01	-1.01	-1.00	-0.88	-1.00	-0.57
0.625	-1.00	-1.02	-1.03	-1.01	-0.89	-1.01	-0.57
0.650	-1.01	-1.04	-1.04	-1.01	-0.91	-1.03	-0.57
0.675	-1.02	-1.05	-1.05	-1.03	-0.91	-1.04	-0.57
0.700	-1.04	-1.06	-1.06	-1.04	-0.92	-1.05	-0.57
0.725	-1.05	-1.07	-1.07	-1.05	-0.94	-1.07	-0.56
0.750	-1.07	-1.08	-1.08	-1.06	-0.95	-1.08	-0.56
0.775	-1.08	-1.09	-1.09	-1.07	-0.96	-1.10	-0.56
0.800	-1.09	-1.10	-1.10	-1.07	-0.97	-1.11	-0.56
0.825	-1.10	-1.11	-1.11	-1.08	-0.97	-1.12	-0.55
0.850	-1.11	-1.12	-1.11	-1.08	-0.98	-1.13	-0.55
0.875	-1.12	-1.12	-1.12	-1.09	-0.99	-1.14	-0.54
0.900	-1.13	-1.13	-1.12	-1.09	-0.99	-1.15	-0.54
0.925	-1.14	-1.13	-1.13	-1.10	-1.00	-1.16	-0.53
0.950	-1.14	-1.14	-1.13	-1.10	-1.00	-1.16	-0.53
0.975	-1.15	-1.14	-1.14	-1.10	-1.01	-1.17	-0.52
1.000	-1.15	-1.14	-1.14	-1.10	-1.01	-1.18	-0.51
1.100	-1.15	-1.16	-1.15	-1.11	-1.01	-1.18	-0.49
1.200	-1.14	-1.17	-1.16	-1.12	-0.99	-1.16	-0.48
1.300	-1.14	-1.19	-1.18	-1.13	-0.99	-1.15	-0.46
1.400	-1.13	-1.20	-1.19	-1.14	-0.98	-1.15	-0.43
1.500	-1.17	-1.22	-1.21	-1.16	-1.01	-1.18	-0.44
1.600	-1.22	-1.23	-1.22	-1.16	-1.05	-1.23	-0.42
1.700	-1.28	-1.28	-1.28	-1.15	-1.08	-1.28	-0.40
1.800	-1.29	-1.29	-1.29	-1.15	-1.08	-1.31	-0.37
1.900	-1.32	-1.19	-1.19	-1.13	-1.12	-1.31	-0.37
2.000	-1.32	-1.20	-1.19	-1.13	-1.12	-1.30	-0.32

TABLE 22a

22 vs. Z. (H α =50, G α =0, T $_g$ =16).							
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	13.4	13.0	14.7	13.1	11.5	10.7	9.7
0.050	20.9	20.5	20.1	18.3	16.8	16.1	15.1
0.100	22.5	22.0	21.5	19.5	18.1	17.6	16.6
0.150	23.4	22.8	22.2	20.1	18.8	18.4	17.4
0.200	24.1	23.5	22.7	20.5	19.3	19.0	18.0
0.250	24.6	24.0	23.0	20.8	19.7	19.5	18.4
0.300	25.0	24.4	23.2	21.0	20.0	19.9	18.8
0.350	25.4	24.7	23.4	21.2	20.3	20.2	19.2
0.400	25.6	24.9	23.4	21.3	20.5	20.5	19.4
0.450	25.8	25.0	23.4	21.4	20.7	20.8	19.7
0.500	26.0	25.1	23.3	21.4	20.8	21.0	19.9
0.550	26.1	25.2	23.3	21.5	21.0	21.1	20.1
0.600	26.2	25.2	23.3	21.5	21.1	21.2	20.3
0.650	26.4	25.3	23.3	21.6	21.2	21.6	20.5
0.700	26.5	25.4	23.3	21.7	21.4	21.8	20.7
0.750	26.7	25.4	23.3	21.8	21.5	22.0	20.9
0.800	26.9	25.5	23.3	21.9	21.6	22.1	21.0
0.850	27.1	25.6	23.4	21.9	21.8	22.3	21.2
0.900	27.3	25.6	23.3	22.0	21.9	22.5	21.4
0.950	27.4	25.5	23.3	22.0	22.0	22.6	21.5
1.000	27.6	25.5	23.3	22.1	22.1	22.8	21.7
1.050	27.7	25.5	23.3	22.2	22.2	22.9	21.9
1.100	27.8	25.4	23.3	22.3	22.4	23.1	22.0
1.150	27.9	25.3	23.3	22.4	22.5	23.3	22.2
1.200	28.0	25.3	23.4	22.5	22.7	23.5	22.4
1.250	28.1	25.3	23.5	22.7	22.9	23.7	22.6
1.300	28.2	25.3	23.6	22.8	23.0	23.9	22.8
1.350	28.2	25.3	23.6	23.0	23.2	24.1	23.0
1.400	28.3	25.3	23.8	23.1	23.4	24.4	23.3
1.450	28.4	25.4	23.9	23.3	23.6	24.6	23.5
1.500	28.5	25.4	24.0	23.4	23.8	24.8	23.7
1.550	28.6	25.5	24.1	23.6	24.0	25.0	23.9
1.600	28.4	25.5	24.2	23.7	24.1	25.2	24.1
1.650	28.5	25.4	24.3	23.8	24.2	25.3	24.2
1.700	28.0	25.4	24.2	23.9	24.4	25.5	24.4
1.750	27.8	25.3	24.3	24.0	24.5	25.6	24.5
1.800	27.8	25.3	24.3	24.1	24.6	25.7	24.7
1.850	27.7	25.3	24.3	24.1	24.7	25.8	24.8
1.900	27.7	25.3	24.4	24.2	24.8	25.9	24.9
1.950	27.6	25.3	24.4	24.2	24.9	26.0	25.0
2.000	27.5	25.3	24.4	24.3	24.9	26.1	25.2
2.100	27.2	25.2	24.4	24.4	25.1	26.3	25.4
2.200	27.0	25.1	24.4	24.5	25.2	26.4	25.6
2.300	26.7	25.0	24.5	24.5	25.3	26.6	25.8
2.400	26.5	24.9	24.5	24.6	25.4	26.7	26.0
2.500	26.3	24.9	24.5	24.7	25.5	26.9	26.2
2.600	26.0	24.9	24.5	24.8	25.6	27.0	26.4
2.700	25.9	24.8	24.6	24.8	25.8	27.2	26.7
2.800	25.8	24.8	24.6	24.9	25.9	27.3	26.9
2.900	25.6	24.8	24.7	25.1	26.0	27.5	27.1
3.000	25.4	24.8	24.8	25.2	26.2	27.6	27.4

TABLE 23a

27 vs. Z. (H α =50, G α =0, T $_g$ =16).							
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	13.5	13.4	13.4	12.7	11.5	10.9	10.1
0.050	19.4	19.3	19.1	18.1	16.9	16.4	15.5
0.100	21.3	21.2	20.9	19.6	18.3	17.9	17.0
0.150	22.5	22.3	22.0	20.3	19.1	18.7	17.8
0.200	23.5	23.2	22.7	20.8	19.6	19.3	18.4
0.250	24.2	23.9	23.1	21.1	20.0	19.8	18.9
0.300	24.8	24.4	23.4	21.3	20.4	20.2	19.2
0.350	25.3	24.8	23.6	21.5	20.6	20.6	19.6
0.400	25.6	25.0	23.6	21.6	20.8	20.8	19.8
0.450	25.8	25.2	23.6	21.6	21.0	21.1	20.0
0.500	26.0	25.3	23.5	21.7	21.1	21.3	20.3
0.550	26.1	25.3	23.5	21.7	21.2	21.4	20.4
0.600	26.2	25.3	23.4	21.7	21.3	21.6	20.6
0.650	26.4	25.4	23.4	21.8	21.4	21.8	20.8
0.700	26.5	25.4	23.4	21.8	21.5	21.9	20.9
0.750	26.7	25.5	23.4	21.9	21.6	22.1	21.1
0.800	26.8	25.5	23.4	21.9	21.7	22.2	21.3
0.850	27.0	25.6	23.4	22.0	21.8	22.3	21.4
0.900	27.2	25.5	23.3	22.0	21.9	22.5	21.5
0.950	27.3	25.4	23.3	22.0	22.0	22.6	21.7
1.000	27.5	25.4	23.2	22.1	22.1	22.7	21.8
1.050	27.6	25.4	23.2	22.1	22.1	22.9	21.9
1.100	27.6	25.2	23.2	22.1	22.2	23.0	22.1
1.150	27.6	25.1	23.1	22.2	22.3	23.1	22.2
1.200	27.7	25.0	23.1	22.3	22.4	23.2	22.3
1.250	27.7	25.0	23.1	22.3	22.5	23.4	22.5
1.300	27.7	24.9	23.1	22.4	22.6	23.5	22.6
1.350	27.6	24.7	23.1	22.4	22.7	23.6	22.7
1.400	27.6	24.7	23.1	22.4	22.7	23.7	22.8
1.450	27.6	24.6	23.1	22.5	22.8	23.8	22.9
1.500	27.6	24.5	23.1	22.6	22.9	23.9	23.1
1.550	27.7	24.6	23.1	22.6	23.0	24.0	23.2
1.600	27.4	24.5	23.1	22.7	23.1	24.2	23.3
1.650	27.1	24.4	23.2	22.8	23.3	24.3	23.5
1.700	26.9	24.3	23.2	22.9	23.4	24.4	23.6
1.750	26.8	24.3	23.3	23.0	23.5	24.6	23.8
1.800	26.8	24.3	23.3	23.1	23.6	24.8	24.0
1.850	26.8	24.4	23.4	23.2	23.8	24.9	24.1
1.900	26.8	24.3	23.3	23.3	23.9	25.1	24.3
1.950	26.9	24.5	23.6	23.5	24.1	25.3	24.5
2.000	26.8	24.6	23.8	23.6	24.3	25.5	24.7
2.100	26.7	24.7	24.0	23.9	24.6	25.8	25.0
2.200	26.7	24.8	24.1	24.1	24.9	26.1	25.4
2.300	26.6	24.8	24.3	24.4	25.1	26.4	25.7
2.400	26.3	24.8	24.3	24.5	25.3	26.6	25.9
2.500	26.2	24.8	24.4	24.6	25.4	26.8	26.2
2.600	26.0	24.8	24.5	24.7	25.6	26.9	26.4
2.700	25.8	24.7	24.5	24.8	25.7	27.1	26.6
2.800	25.7	24.7	24.6	24.9	25.8	27.2	26.8
2.900	25.5	24.7	24.6	25.0	25.9	27.3	27.0
3.000	25.2	24.6	24.6	25.1	26.0	27.5	27.2

TABLE 22b

22 vs. Z. (H α =100, G α =0, T $_g$ =9).							
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	15.2	14.7	13.2	11.6	10.9	10.5	9.6
0.050	20.8	20.1	18.4	16.9	16.3	15.9	15.0
0.100	22.4	21.5	19.7	18.2	17.6	17.4	16.5
0.150	23.2	22.2	20.3	18.8	18.4	18.2	17.3
0.200	24.0	22.7	20.7	19.4	19.0	18.7	17.9
0.250	24.5	23.1	21.0	19.8	19.4	19.3	18.4
0.300	24.9	23.3	21.3	20.1	19.8	19.7	18.8
0.350	25.2	23.4	21.4	20.4	20.1	20.1	19.1
0.400	25.5	23.5	21.6	20.6	20.3	20.4	19.5
0.450	25.7	23.6	21.7	20.7	20.5	20.6	19.7
0.500	25.8	23.6	21.7	20.7	20.7	20.8	19.9
0.550	25.9	23.5	21.8	21.0	20.9	21.1	20.1
0.600	26.1	23.5	21.9	21.1	21.1	21.2	20.4
0.650	26.2	23.6	22.0	21.3	21.3	21.5	20.6
0.700	26.4	23.7	22.1	21.4	21.4	21.6	20.8
0.750	26.4	23.7	22.1	21.5	21.6	21.8	20.9
0.800	26.5	23.7	22.2	21.7	21.7	22.0	21.1
0.850	26.6	23.8	22.3	21.8	21.9	22.2	21.3
0.900	26.8	23.8	22.4	21.9	22.0	22.3	21.4
0.950	26.9	23.8	22.4	22.0	22.1	22.5	21.6
1.000	27.0	23.9	22.5	22.1	22.3	22.6	21.8
1.050	27.0	24.0	22.6	22.3	22.5	22.8	21.9
1.100	26.7	23.9	22.7	22.4	22.6	23.0	22.1
1.150	26.5	23.9	22.8	22.5	22.8	23.2	22.3
1.200	26.5	23.9	22.9	22.7	23.0	23.4	22.5
1.250	26.6	24.0	23.0	22.8	23.1	23.6	22.7
1.300	26.5	24.1	23.2	23.0	23.4	23.8	22.9
1.350	26.6	24.2	23.3	23.2	23.5	24.0	23.1
1.400	26.7	24.4	23.5	23.4	23.8	24.2	23.4
1.450	26.9	24.5	23.7	23.6	24.0	24.5	23.5
1.500	27.0	24.7	23.8	23.8	24.2	24.7	23.8
1.550	27.1	24.8	24.0	24.0	24.3	24.9	23.9
1.600	27.1	24.8	24.1	24.1	24.5	25.0	24.1
1.650	27.1	25.0	24.2	24.3	24.7	25.2	24.3
1.700	27.1	25.0	24.3	24.4	24.8	25.4	24.4
1.750	27.1	25.1	24.4	24.5	24.9	25.5	24.6
1.800	27.1	25.1	24.5	24.6	25.0	25.6	24.7
1.850	27.1	25.2	24.6	24.7	25.1	25.7	24.8
1.900	27.1	25.2	24.6	24.8	25.2	25.8	24.9
1.950	27.1	25.3	24.7	24.9	25.3	25.9	25.0
2.000	27.1	25.3	24.7	24.9	25.4	26.0	25.1
2.100	27.0	25.3	24.8	25.0	25.5	26.2	25.4
2.200	26.9	25.3	24.9	25.1	25.7	26.3	25.5
2.300	26.9	25.4	25.0	25.3	25.8	26.5	25.7
2.400	26.9	25.4	25.1	25.4	25.9	26.6	25.9
2.500	26.9	25.5	25.2	25.5	26.1	26.8	26.1
2.600	26.8	25.5	25.3	25.6	26.2	26.9	26.3
2.700	26.7	25.6	25.4	25.8	26.4	27.1	26.5
2.800	26.7	25.6	25.5	25.9	26.5	27.2	26.6
2.900	26.8	25.7	25.6	26.0	26.6	27.4	26.8
3.000	26.8	25.8	25.7	26.1	26.8	27.5	27.0

TABLE 24a

V vs. Z. (Ho=50, G ₀ =0, T _g =16).								
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85	
0.004	10.2	10.2	10.2	10.2	10.4	10.5	10.6	
0.050	13.7	13.7	13.7	13.7	13.9	14.1	14.1	
0.100	17.3	17.3	17.3	17.3	17.4	17.6	17.7	
0.150	18.2	18.2	18.2	18.2	18.3	18.6	18.6	
0.200	19.1	19.1	19.0	19.0	19.0	19.3	19.3	
0.250	19.8	19.8	19.7	19.6	19.6	20.0	19.9	
0.300	20.5	20.5	20.4	20.2	20.2	20.5	20.4	
0.350	21.1	21.1	21.0	20.8	20.7	21.1	20.9	
0.400	21.6	21.6	21.4	21.2	21.2	21.5	21.3	
0.450	22.0	22.0	21.8	21.6	21.5	22.0	21.7	
0.500	22.3	22.3	22.2	21.9	21.9	22.3	22.0	
0.550	22.6	22.6	22.4	22.1	22.1	22.6	22.2	
0.600	22.8	22.8	22.7	22.4	22.4	22.9	22.5	
0.650	23.1	23.1	23.0	22.6	22.6	23.1	22.7	
0.700	23.5	23.5	23.3	22.8	22.8	23.4	22.9	
0.750	23.9	23.9	23.6	23.0	23.0	23.6	23.1	
0.800	24.3	24.2	23.8	23.1	23.2	23.8	23.2	
0.850	24.8	24.6	24.1	23.3	23.3	24.0	23.4	
0.900	25.1	24.9	24.2	23.4	23.5	24.1	23.5	
0.950	25.5	25.2	24.3	23.5	23.6	24.3	23.7	
1.000	25.9	25.5	24.4	23.6	23.7	24.4	23.8	
1.050	26.2	25.7	24.5	23.7	23.8	24.5	23.9	
1.100	26.5	25.8	24.5	23.7	23.9	24.6	24.0	
1.150	26.7	25.8	24.5	23.8	24.0	24.8	24.2	
1.200	26.9	25.9	24.5	23.8	24.0	24.9	24.3	
1.250	27.0	25.9	24.6	23.9	24.1	25.0	24.4	
1.300	27.0	25.9	24.5	23.9	24.2	25.1	24.5	
1.350	27.0	25.8	24.5	23.9	24.2	25.2	24.6	
1.400	27.1	25.7	24.5	23.9	24.3	25.2	24.7	
1.450	27.1	25.7	24.5	24.0	24.4	25.3	24.8	
1.500	27.2	25.6	24.4	24.0	24.4	25.4	24.9	
1.550	27.3	25.6	24.4	24.0	24.4	25.5	25.0	
1.600	27.3	25.6	24.4	24.0	24.4	25.5	25.0	
1.650	27.2	25.4	24.4	24.0	24.5	25.6	25.1	
1.700	27.1	25.3	24.3	24.0	24.5	25.6	25.2	
1.750	27.0	25.2	24.3	24.0	24.6	25.7	25.3	
1.800	27.0	25.1	24.2	24.0	24.6	25.7	25.4	
1.850	26.9	25.1	24.2	24.1	24.6	25.8	25.4	
1.900	26.9	25.0	24.2	24.1	24.7	25.8	25.5	
1.950	26.9	25.0	24.2	24.1	24.7	25.9	25.6	
2.000	26.8	25.0	24.2	24.1	24.8	26.0	25.7	
2.100	26.6	24.8	24.2	24.2	24.8	26.1	25.8	
2.200	26.5	24.7	24.1	24.2	24.9	26.2	26.0	
2.300	26.1	24.6	24.1	24.2	25.0	26.3	26.1	
2.400	25.9	24.5	24.0	24.2	25.0	26.3	26.3	
2.500	25.7	24.4	24.0	24.3	25.1	26.4	26.5	
2.600	25.4	24.3	24.0	24.3	25.2	26.5	26.6	
2.700	25.2	24.1	24.1	24.4	25.3	26.6	26.8	
2.800	25.1	24.2	24.1	24.4	25.4	26.8	27.0	
2.900	24.9	24.2	24.1	24.5	25.4	26.9	27.1	
3.000	24.6	24.1	24.1	24.6	25.5	27.0	27.3	

TABLE 25a

14-17 vs. Z. (Ho=50, G ₀ =0, T _g =16).								
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85	
0.004	-0.39	-0.68	-0.71	-0.74	-0.75	-0.76	-0.85	
0.050	-0.36	-0.63	-0.66	-0.69	-0.70	-0.70	-0.81	
0.100	-0.33	-0.60	-0.62	-0.64	-0.65	-0.66	-0.79	
0.150	-0.30	-0.56	-0.58	-0.60	-0.61	-0.61	-0.76	
0.200	-0.48	-0.54	-0.56	-0.57	-0.58	-0.58	-0.74	
0.250	-0.46	-0.51	-0.53	-0.54	-0.55	-0.55	-0.71	
0.300	-0.42	-0.46	-0.48	-0.49	-0.49	-0.50	-0.66	
0.350	-0.35	-0.38	-0.40	-0.41	-0.41	-0.42	-0.59	
0.400	-0.25	-0.28	-0.29	-0.30	-0.30	-0.30	-0.48	
0.450	-0.11	-0.13	-0.14	-0.15	-0.15	-0.15	-0.34	
0.500	0.05	0.03	0.03	0.02	0.02	0.02	-0.19	
0.550	0.22	0.21	0.21	0.20	0.20	0.20	-0.03	
0.600	0.37	0.36	0.36	0.36	0.35	0.35	0.10	
0.650	0.47	0.47	0.47	0.46	0.46	0.46	0.19	
0.700	0.50	0.50	0.50	0.50	0.50	0.50	0.22	
0.750	0.48	0.48	0.48	0.48	0.48	0.48	0.21	
0.800	0.40	0.40	0.40	0.40	0.40	0.40	0.15	
0.850	0.29	0.29	0.29	0.29	0.29	0.29	0.06	
0.900	0.16	0.15	0.15	0.15	0.15	0.15	-0.04	
0.950	0.02	0.01	0.01	0.01	0.01	0.01	-0.15	
1.000	-0.11	-0.12	-0.12	-0.12	-0.12	-0.12	-0.25	
1.050	-0.23	-0.24	-0.24	-0.24	-0.24	-0.24	-0.34	
1.100	-0.31	-0.33	-0.33	-0.33	-0.33	-0.33	-0.40	
1.150	-0.38	-0.39	-0.39	-0.39	-0.39	-0.39	-0.45	
1.200	-0.42	-0.43	-0.43	-0.43	-0.44	-0.44	-0.47	
1.250	-0.44	-0.45	-0.45	-0.45	-0.46	-0.46	-0.48	
1.300	-0.45	-0.46	-0.46	-0.46	-0.46	-0.46	-0.48	
1.350	-0.45	-0.46	-0.46	-0.46	-0.46	-0.46	-0.48	
1.400	-0.44	-0.45	-0.45	-0.45	-0.45	-0.45	-0.47	
1.450	-0.42	-0.43	-0.43	-0.43	-0.43	-0.43	-0.45	
1.500	-0.41	-0.41	-0.41	-0.41	-0.41	-0.41	-0.44	
1.550	-0.39	-0.40	-0.40	-0.40	-0.40	-0.40	-0.42	
1.600	-0.37	-0.38	-0.38	-0.38	-0.38	-0.38	-0.40	
1.650	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.38	
1.700	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.36	
1.750	-0.31	-0.31	-0.31	-0.31	-0.31	-0.31	-0.34	
1.800	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.31	
1.850	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.29	
1.900	-0.23	-0.23	-0.23	-0.24	-0.24	-0.24	-0.27	
1.950	-0.21	-0.21	-0.21	-0.21	-0.21	-0.21	-0.24	
2.000	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.22	
2.100	-0.14	-0.15	-0.15	-0.15	-0.15	-0.15	-0.18	
2.200	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.15	
2.300	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.13	
2.400	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.13	
2.500	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.15	
2.600	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.19	
2.700	-0.22	-0.22	-0.22	-0.22	-0.22	-0.22	-0.23	
2.800	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.28	
2.900	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.33	
3.000	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.36	

TABLE 24b

V vs. Z. (Ho=100, G ₀ =0, T _g =9).								
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85	
0.004	10.2	10.3	10.3	10.4	10.5	10.6	10.7	
0.050	13.8	13.8	13.8	13.9	14.0	14.1	14.2	
0.100	17.3	17.3	17.3	17.4	17.5	17.7	17.8	
0.150	18.3	18.3	18.3	18.3	18.5	18.6	18.7	
0.200	19.1	19.1	19.0	19.0	19.2	19.3	19.4	
0.250	19.8	19.7	19.7	19.6	19.8	20.0	19.9	
0.300	20.4	20.4	20.2	20.2	20.3	20.5	20.5	
0.350	21.0	20.9	20.8	20.7	20.8	21.0	21.0	
0.400	21.5	21.4	21.2	21.1	21.3	21.5	21.4	
0.450	21.9	21.8	21.6	21.5	21.7	21.9	21.8	
0.500	22.2	22.1	21.9	21.9	22.0	22.3	22.1	
0.550	22.5	22.4	22.2	22.1	22.3	22.5	22.3	
0.600	22.8	22.7	22.5	22.4	22.5	22.8	22.6	
0.650	23.1	23.0	22.7	22.6	22.8	23.1	22.8	
0.700	23.4	23.3	23.0	22.8	23.0	23.3	23.0	
0.750	23.8	23.6	23.1	23.0	23.2	23.5	23.2	
0.800	24.1	23.8	23.3	23.1	23.3	23.7	23.3	
0.850	24.5	24.1	23.5	23.3	23.5	23.9	23.5	
0.900	24.8	24.3	23.6	23.4	23.6	24.0	23.6	
0.950	25.1	24.5	23.8	23.5	23.8	24.1	23.8	
1.000	25.5	24.7	23.9	23.7	23.9	24.3	23.9	
1.050	25.8	24.8	24.0	23.8	24.0	24.4	24.0	
1.100	25.9	24.9	24.0	23.9	24.1	24.5	24.1	
1.150	26.0	24.9	24.1	23.9	24.2	24.6	24.3	
1.200	26.2	24.9	24.1	24.0	24.3	24.8	24.4	
1.250	26.2	24.9	24.2	24.1	24.4	24.9	24.5	
1.300	26.3	24.9	24.2	24.1	24.5	25.0	24.6	
1.350	26.4	25.0	24.3	24.2	24.6	25.1	24.7	
1.400	26.4	25.0	24.3	24.3	24.6	25.1	24.8	
1.450	26.5	25.0	24.3	24.3	24.7	25.2	24.9	
1.500	26.5	25.0	24.3	24.4	24.8	25.3	25.0	
1.550	26.6	25.0	24.4	24.4	24.8	25.3	25.0	
1.600	26.6	25.0	24.4	24.4	24.9	25.4	25.1	
1.650	26.6	25.0	24.4	24.5	24.9	25.5	25.2	
1.700	26.6	25.0	24.4	24.5	25.0	25.5	25.3	
1.750	26.5	25.0	24.4	24.5	25.0	25.6	25.3	
1.800	26.5	25.0	24.4	24.6	25.0	25.6	25.4	
1.850	26.5	25.0	24.5	24.6	25.1	25.7	25.5	

TABLE 26a

17-22 vs. Z. (H α =50, G α =0, T g =16).

Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	0.38	0.15	0.05	-0.18	-0.24	-0.25	-0.31
0.050	0.24	0.05	-0.04	-0.20	-0.23	-0.25	-0.30
0.100	0.14	-0.02	-0.09	-0.19	-0.21	-0.22	-0.28
0.150	0.08	-0.05	-0.11	-0.17	-0.18	-0.19	-0.25
0.200	0.06	-0.05	-0.09	-0.13	-0.15	-0.15	-0.23
0.250	0.06	-0.03	-0.07	-0.10	-0.11	-0.11	-0.21
0.300	0.08	0.00	-0.03	-0.05	-0.06	-0.07	-0.18
0.350	0.11	0.04	0.01	-0.01	-0.02	-0.03	-0.15
0.400	0.14	0.07	0.04	0.03	0.02	0.02	-0.13
0.450	0.16	0.10	0.08	0.06	0.06	0.05	-0.10
0.500	0.19	0.13	0.12	0.10	0.09	0.09	-0.08
0.550	0.21	0.16	0.14	0.13	0.13	0.12	-0.05
0.600	0.24	0.20	0.18	0.17	0.17	0.16	-0.01
0.650	0.29	0.25	0.23	0.22	0.22	0.22	0.04
0.700	0.35	0.32	0.30	0.29	0.29	0.29	0.11
0.750	0.44	0.40	0.39	0.38	0.38	0.38	0.20
0.800	0.54	0.51	0.50	0.49	0.49	0.49	0.30
0.850	0.65	0.63	0.63	0.62	0.62	0.62	0.41
0.900	0.78	0.77	0.76	0.76	0.75	0.75	0.53
0.950	0.91	0.90	0.89	0.89	0.89	0.88	0.65
1.000	1.01	1.01	1.00	1.00	1.00	1.00	0.74
1.050	1.10	1.10	1.10	1.09	1.09	1.09	0.82
1.100	1.15	1.15	1.14	1.14	1.14	1.14	0.86
1.150	1.16	1.16	1.16	1.15	1.15	1.15	0.88
1.200	1.13	1.14	1.13	1.13	1.13	1.13	0.86
1.250	1.08	1.08	1.07	1.07	1.07	1.07	0.80
1.300	0.99	0.99	0.99	0.99	0.99	0.99	0.75
1.350	0.90	0.89	0.89	0.89	0.89	0.89	0.68
1.400	0.79	0.79	0.78	0.78	0.78	0.78	0.59
1.450	0.68	0.67	0.67	0.67	0.67	0.67	0.51
1.500	0.57	0.57	0.57	0.56	0.56	0.56	0.43
1.550	0.47	0.47	0.47	0.47	0.47	0.47	0.36
1.600	0.39	0.39	0.39	0.38	0.38	0.38	0.30
1.650	0.32	0.32	0.32	0.32	0.32	0.32	0.25
1.700	0.27	0.27	0.27	0.27	0.27	0.27	0.22
1.750	0.24	0.24	0.24	0.24	0.24	0.24	0.20
1.800	0.22	0.22	0.22	0.22	0.22	0.22	0.18
1.850	0.21	0.21	0.21	0.21	0.21	0.21	0.18
1.900	0.21	0.21	0.21	0.21	0.21	0.21	0.18
1.950	0.21	0.21	0.21	0.21	0.21	0.21	0.19
2.000	0.22	0.22	0.22	0.22	0.22	0.22	0.20
2.100	0.25	0.25	0.25	0.25	0.25	0.25	0.22
2.200	0.28	0.28	0.28	0.28	0.28	0.28	0.25
2.300	0.31	0.31	0.31	0.31	0.31	0.31	0.28
2.400	0.35	0.35	0.35	0.35	0.35	0.35	0.32
2.500	0.39	0.39	0.39	0.39	0.39	0.39	0.36
2.600	0.42	0.42	0.42	0.42	0.42	0.42	0.39
2.700	0.46	0.46	0.46	0.46	0.46	0.46	0.43
2.800	0.49	0.49	0.49	0.49	0.49	0.49	0.46
2.900	0.52	0.52	0.52	0.52	0.52	0.52	0.49
3.000	0.54	0.54	0.54	0.54	0.54	0.54	0.51

TABLE 26b

17-22 vs. Z. (H α =100, G α =0, T g =9).

Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	0.59	0.24	-0.10	-0.22	-0.24	-0.26	-0.31
0.050	0.38	0.14	-0.14	-0.22	-0.24	-0.25	-0.30
0.100	0.23	0.02	-0.14	-0.20	-0.21	-0.22	-0.28
0.150	0.14	-0.02	-0.13	-0.17	-0.18	-0.19	-0.25
0.200	0.11	-0.02	-0.10	-0.14	-0.15	-0.15	-0.23
0.250	0.10	-0.01	-0.07	-0.10	-0.11	-0.11	-0.21
0.300	0.13	0.02	-0.04	-0.06	-0.06	-0.07	-0.18
0.350	0.15	0.04	0.00	-0.01	-0.02	-0.03	-0.16
0.400	0.17	0.07	0.04	0.03	0.02	0.02	-0.13
0.450	0.18	0.10	0.07	0.06	0.06	0.05	-0.10
0.500	0.20	0.13	0.10	0.09	0.09	0.09	-0.08
0.550	0.22	0.16	0.14	0.13	0.13	0.12	-0.05
0.600	0.24	0.19	0.18	0.17	0.17	0.16	-0.01
0.650	0.29	0.24	0.23	0.22	0.22	0.22	0.04
0.700	0.35	0.31	0.30	0.29	0.29	0.29	0.11
0.750	0.43	0.40	0.39	0.38	0.38	0.38	0.20
0.800	0.53	0.51	0.50	0.49	0.49	0.49	0.30
0.850	0.65	0.63	0.63	0.62	0.62	0.62	0.41
0.900	0.78	0.77	0.76	0.76	0.75	0.75	0.53
0.950	0.91	0.90	0.89	0.89	0.89	0.88	0.65
1.000	1.02	1.01	1.00	1.00	1.00	1.00	0.74
1.050	1.11	1.10	1.10	1.09	1.09	1.09	0.82
1.100	1.16	1.15	1.15	1.14	1.14	1.14	0.86
1.150	1.17	1.16	1.16	1.15	1.15	1.15	0.88
1.200	1.14	1.14	1.13	1.13	1.13	1.13	0.86
1.250	1.08	1.08	1.07	1.07	1.07	1.07	0.81
1.300	1.00	0.99	0.99	0.99	0.99	0.99	0.75
1.350	0.90	0.89	0.89	0.89	0.89	0.89	0.68
1.400	0.79	0.79	0.78	0.78	0.78	0.78	0.59
1.450	0.68	0.67	0.67	0.67	0.67	0.67	0.51
1.500	0.57	0.57	0.57	0.56	0.56	0.56	0.43
1.550	0.47	0.47	0.47	0.47	0.47	0.47	0.36
1.600	0.39	0.39	0.39	0.38	0.38	0.38	0.30
1.650	0.32	0.32	0.32	0.32	0.32	0.32	0.25
1.700	0.27	0.27	0.27	0.27	0.27	0.27	0.22
1.750	0.24	0.24	0.24	0.24	0.24	0.24	0.20
1.800	0.22	0.22	0.22	0.22	0.22	0.22	0.18
1.850	0.21	0.21	0.21	0.21	0.21	0.21	0.18
1.900	0.21	0.21	0.21	0.21	0.21	0.21	0.18
1.950	0.21	0.21	0.21	0.21	0.21	0.21	0.19
2.000	0.22	0.22	0.22	0.22	0.22	0.22	0.20
2.100	0.25	0.25	0.25	0.25	0.25	0.25	0.22
2.200	0.28	0.28	0.28	0.28	0.28	0.28	0.25
2.300	0.31	0.31	0.31	0.31	0.31	0.31	0.28
2.400	0.35	0.35	0.35	0.35	0.35	0.35	0.32
2.500	0.39	0.39	0.39	0.39	0.39	0.39	0.36
2.600	0.42	0.42	0.42	0.42	0.42	0.42	0.39
2.700	0.46	0.46	0.46	0.46	0.46	0.46	0.43
2.800	0.49	0.49	0.49	0.49	0.49	0.49	0.46
2.900	0.52	0.52	0.52	0.52	0.52	0.52	0.49
3.000	0.54	0.54	0.54	0.54	0.54	0.54	0.51

TABLE 27a

22-27 vs. Z. (H α =50, G α =0, T g =16).

Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	1.84	1.56	1.36	0.42	-0.05	-0.16	-0.33
0.050	1.52	1.20	0.97	0.12	-0.16	-0.23	-0.35
0.100	1.16	0.83	0.57	-0.09	-0.25	-0.29	-0.38
0.150	0.83	0.51	0.25	-0.22	-0.31	-0.33	-0.40
0.200	0.56	0.26	0.02	-0.28	-0.34	-0.36	-0.42
0.250	0.35	0.10	-0.11	-0.31	-0.35	-0.37	-0.42
0.300	0.21	-0.01	-0.19	-0.32	-0.35	-0.36	-0.41
0.350	0.10	-0.09	-0.23	-0.31	-0.34	-0.35	-0.40
0.400	0.03	-0.13	-0.24	-0.30	-0.31	-0.32	-0.38
0.450	-0.03	-0.16	-0.23	-0.27	-0.29	-0.30	-0.36
0.500	-0.05	-0.16	-0.22	-0.25	-0.26	-0.27	-0.34
0.550	-0.04	-0.14	-0.19	-0.22	-0.23	-0.23	-0.32
0.600	-0.04	-0.12	-0.16	-0.19	-0.19	-0.20	-0.30
0.650	-0.02	-0.10	-0.13	-0.15	-0.16	-0.16	-0.28
0.700	0.00	-0.07	-0.10	-0.12	-0.12	-0.13	-0.26
0.750	0.03	-0.04	-0.07	-0.09	-0.09	-0.10	-0.24
0.800	0.05	-0.02	-0.04	-0.06	-0.06	-0.06	-0.22
0.850	0.07	0.01	-0.02	-0.03	-0.03	-0.04	-0.20
0.900	0.09	0.03	0.01	0.00	-0.01	-0.01	-0.18
0.950	0.10	0.05	0.03	0.02	0.02	0.01	-0.15
1.000	0.13	0.08	0.06	0.05	0.05	0.05	-0.12
1.050	0.16	0.11	0.10	0.09	0.09	0.08	-0.09
1.100	0.20	0.16	0.15	0.14	0.13	0.13	-0.04
1.150	0.25	0.22	0.21	0.20	0.20	0.19	0.02
1.200	0.32	0.29	0.28	0.27	0.27	0.27	0.09
1.250	0.40	0.37	0.37	0.36	0.36	0.36	0.17
1.300	0.49	0.47	0.46	0.46	0.46	0.45	0.26
1.350	0.59	0.58	0.57	0.56	0.56	0.56	0.35
1.400	0.70	0.68	0.68	0.67	0.67	0.67	0.45
1.450	0.80	0.79	0.78	0.78	0.77	0.77	0.54
1.500	0.89	0.88	0.87	0.87	0.87	0.87	0.62
1.550	0.96	0.96	0.95	0.95	0.95	0.94	0.68
1.600	1.02	1.01	1.01	1.00	1.00	1.00	0.73
1.650	1.05	1.04	1.04	1.03	1.03	1.03	0.76
1.700	1.05	1.04	1.04	1.04	1.03	1.03	0.76
1.750	1.03	1.02	1.02	1.01	1.01	1.01	0.75
1.800	0.98	0.98	0.97	0.97	0.97	0.97	0.71
1.850	0.92	0.92	0.91	0.91	0.91	0.91	0.67
1.900	0.85	0.84	0.84	0.84	0.84	0.83	0.61
1.950	0.76	0.76	0.75	0.75	0.75	0.75	0.55
2.000	0.67	0.67	0.66	0.66	0.66	0.66	0.48
2.100	0.49	0.48	0.48	0.48	0.48	0.48	0.34
2.200	0.32	0.32	0.32	0.32	0.32	0.32	0.22
2.300	0.20	0.20	0.20	0.20	0.20	0.20	0.13
2.400	0.13	0.13	0.13	0.13	0.13	0.13	0.08
2.500	0.10	0.10	0.10	0.10	0.10	0.10	0.06
2.600	0.09	0.09	0.09	0.09	0.09	0.09	0.06
2.700	0.10	0.10	0.10	0.10	0.10	0.10	0.07
2.800	0.11	0.11	0.11	0.11	0.11	0.11	0.09
2.900	0.13	0.13	0.13	0.13	0.13	0.13	0.11
3.000	0.14	0.14	0.14	0.14	0.14	0.14	0.11

TABLE 28a

27-B vs. Z. (Ho=50, G ₀ =0, T _g =16).								
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85	
0.004	2.31	2.24	2.15	1.48	0.38	-0.24	-1.00	
0.050	2.51	2.41	2.27	1.32	0.18	-0.38	-1.13	
0.100	2.67	2.52	2.31	1.04	-0.07	-0.57	-1.29	
0.150	2.77	2.56	2.23	0.69	-0.32	-0.76	-1.43	
0.200	2.81	2.53	2.04	0.35	-0.54	-0.94	-1.54	
0.250	2.76	2.42	1.77	0.02	-0.78	-1.10	-1.67	
0.300	2.67	2.27	1.42	-0.29	-0.98	-1.25	-1.73	
0.350	2.56	2.09	1.08	-0.57	-1.15	-1.38	-1.82	
0.400	2.43	1.89	0.69	-0.82	-1.30	-1.49	-1.88	
0.450	2.24	1.63	0.30	-1.05	-1.43	-1.58	-1.92	
0.500	2.01	1.31	-0.15	-1.25	-1.54	-1.65	-1.94	
0.550	1.73	0.77	-0.47	-1.41	-1.63	-1.72	-1.98	
0.600	1.40	0.56	-0.84	-1.54	-1.70	-1.77	-2.00	
0.650	1.05	0.17	-1.12	-1.64	-1.76	-1.81	-2.01	
0.700	0.71	-0.20	-1.33	-1.71	-1.80	-1.84	-2.02	
0.750	0.37	-0.54	-1.48	-1.76	-1.83	-1.86	-2.02	
0.800	0.06	-0.83	-1.58	-1.79	-1.84	-1.87	-2.02	
0.850	-0.18	-1.02	-1.64	-1.80	-1.85	-1.87	-2.02	
0.900	-0.30	-1.16	-1.67	-1.80	-1.84	-1.86	-2.01	
0.950	-0.39	-1.25	-1.68	-1.79	-1.82	-1.84	-2.00	
1.000	-0.45	-1.30	-1.67	-1.77	-1.80	-1.82	-1.98	
1.050	-0.48	-1.33	-1.65	-1.74	-1.77	-1.78	-1.96	
1.100	-0.44	-1.35	-1.63	-1.70	-1.73	-1.75	-1.93	
1.150	-0.41	-1.36	-1.60	-1.66	-1.69	-1.70	-1.90	
1.200	-0.40	-1.35	-1.58	-1.63	-1.66	-1.67	-1.87	
1.250	-0.41	-1.34	-1.53	-1.58	-1.60	-1.62	-1.84	
1.300	-0.43	-1.33	-1.49	-1.54	-1.56	-1.58	-1.81	
1.350	-0.52	-1.33	-1.47	-1.51	-1.53	-1.54	-1.79	
1.400	-0.59	-1.32	-1.43	-1.47	-1.49	-1.50	-1.76	
1.450	-0.64	-1.31	-1.40	-1.43	-1.45	-1.46	-1.73	
1.500	-0.71	-1.28	-1.36	-1.39	-1.40	-1.41	-1.69	
1.550	-0.74	-1.25	-1.30	-1.33	-1.35	-1.35	-1.65	
1.600	-0.82	-1.19	-1.27	-1.30	-1.32	-1.32	-1.59	
1.650	-0.87	-1.13	-1.18	-1.20	-1.21	-1.22	-1.54	
1.700	-0.84	-1.06	-1.10	-1.12	-1.13	-1.14	-1.47	
1.750	-0.82	-0.98	-1.02	-1.04	-1.05	-1.05	-1.40	
1.800	-0.77	-0.89	-0.93	-0.95	-0.95	-0.96	-1.32	
1.850	-0.69	-0.80	-0.83	-0.85	-0.86	-0.86	-1.23	
1.900	-0.60	-0.70	-0.73	-0.74	-0.75	-0.76	-1.14	
1.950	-0.53	-0.62	-0.65	-0.66	-0.67	-0.68	-1.09	
2.000	-0.41	-0.48	-0.51	-0.52	-0.53	-0.54	-0.95	
2.100	-0.22	-0.28	-0.30	-0.32	-0.32	-0.33	-0.77	
2.200	-0.07	-0.12	-0.14	-0.15	-0.16	-0.17	-0.63	
2.300	0.03	-0.01	-0.03	-0.04	-0.04	-0.05	-0.52	
2.400	0.13	0.09	0.07	0.06	0.06	0.05	-0.42	
2.500	0.18	0.15	0.13	0.12	0.12	0.12	-0.36	
2.600	0.20	0.18	0.16	0.15	0.15	0.15	-0.31	
2.700	0.22	0.19	0.18	0.17	0.17	0.17	-0.28	
2.800	0.22	0.20	0.19	0.18	0.18	0.18	-0.25	
2.900	0.21	0.20	0.19	0.18	0.18	0.18	-0.23	
3.000	0.20	0.19	0.18	0.18	0.17	0.17	-0.22	

TABLE 29a

27-V vs. Z. (Ho=50, G ₀ =0, T _g =16).								
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85	
0.004	3.33	3.26	3.15	2.43	1.17	0.36	-0.56	
0.050	3.70	3.59	3.44	2.41	1.07	0.29	-0.65	
0.100	4.04	3.89	3.66	2.28	0.94	0.23	-0.74	
0.150	4.31	4.09	3.73	2.06	0.78	0.13	-0.83	
0.200	4.45	4.15	3.63	1.77	0.59	0.01	-0.94	
0.250	4.46	4.10	3.40	1.46	0.38	-0.13	-1.06	
0.300	4.36	3.93	3.03	1.09	0.15	-0.30	-1.18	
0.350	4.19	3.70	2.63	0.73	-0.10	-0.49	-1.32	
0.400	4.02	3.46	2.19	0.38	-0.36	-0.70	-1.48	
0.450	3.85	3.22	1.79	0.07	-0.59	-0.90	-1.62	
0.500	3.69	2.97	1.39	-0.21	-0.79	-1.06	-1.73	
0.550	3.55	2.76	1.08	-0.43	-0.96	-1.20	-1.81	
0.600	3.40	2.50	0.73	-0.63	-1.09	-1.30	-1.87	
0.650	3.24	2.25	0.43	-0.80	-1.20	-1.39	-1.91	
0.700	3.06	1.98	0.15	-0.96	-1.30	-1.46	-1.95	
0.750	2.82	1.61	-0.16	-1.10	-1.39	-1.53	-1.97	
0.800	2.56	1.27	-0.43	-1.23	-1.47	-1.58	-1.99	
0.850	2.29	0.93	-0.67	-1.34	-1.53	-1.62	-2.00	
0.900	2.06	0.55	-0.88	-1.42	-1.57	-1.65	-2.00	
0.950	1.83	0.22	-1.05	-1.48	-1.60	-1.66	-2.00	
1.000	1.59	-0.06	-1.18	-1.52	-1.62	-1.67	-2.00	
1.050	1.36	-0.31	-1.27	-1.55	-1.63	-1.68	-1.99	
1.100	1.16	-0.58	-1.35	-1.57	-1.64	-1.67	-1.98	
1.150	0.98	-0.76	-1.40	-1.58	-1.63	-1.66	-1.97	
1.200	0.87	-0.88	-1.43	-1.57	-1.61	-1.65	-1.95	
1.250	0.75	-0.95	-1.43	-1.56	-1.61	-1.65	-1.94	
1.300	0.67	-1.01	-1.43	-1.55	-1.59	-1.61	-1.92	
1.350	0.58	-1.07	-1.42	-1.53	-1.56	-1.59	-1.90	
1.400	0.51	-1.10	-1.41	-1.50	-1.54	-1.56	-1.88	
1.450	0.46	-1.10	-1.38	-1.47	-1.50	-1.52	-1.85	
1.500	0.41	-1.09	-1.35	-1.43	-1.46	-1.48	-1.81	
1.550	0.37	-1.07	-1.30	-1.38	-1.41	-1.42	-1.77	
1.600	0.16	-1.05	-1.25	-1.31	-1.34	-1.36	-1.72	
1.650	-0.58	-1.02	-1.18	-1.24	-1.27	-1.28	-1.68	
1.700	-0.17	-0.96	-1.10	-1.16	-1.18	-1.20	-1.58	
1.750	-0.21	-0.89	-1.01	-1.06	-1.08	-1.10	-1.49	
1.800	-0.20	-0.80	-0.91	-0.95	-0.97	-0.99	-1.40	
1.850	-0.17	-0.70	-0.80	-0.84	-0.86	-0.87	-1.30	
1.900	-0.12	-0.59	-0.68	-0.72	-0.74	-0.75	-1.20	
1.950	-0.06	-0.48	-0.56	-0.60	-0.62	-0.63	-1.10	
2.000	-0.01	-0.37	-0.44	-0.48	-0.50	-0.51	-1.00	
2.100	0.10	-0.16	-0.22	-0.25	-0.26	-0.27	-0.90	
2.200	0.24	0.04	-0.01	-0.04	-0.05	-0.06	-0.63	
2.300	0.39	0.20	0.16	0.14	0.12	0.11	-0.48	
2.400	0.44	0.32	0.29	0.27	0.25	0.25	-0.37	
2.500	0.50	0.40	0.37	0.35	0.34	0.33	-0.29	
2.600	0.53	0.45	0.42	0.41	0.40	0.39	-0.23	
2.700	0.56	0.49	0.46	0.44	0.43	0.43	-0.19	
2.800	0.58	0.51	0.47	0.46	0.45	0.45	-0.15	
2.900	0.59	0.53	0.51	0.49	0.49	0.48	-0.11	
3.000	0.59	0.54	0.52	0.51	0.50	0.49	-0.08	

TABLE 28b

27-B vs. Z. (Ho=100, G ₀ =0, T _g =9).								
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85	
0.004	1.91	1.84	1.41	0.46	-0.08	-0.39	-1.14	
0.050	2.15	2.02	1.33	0.27	-0.24	-0.51	-1.25	
0.100	2.37	2.14	1.16	0.04	-0.44	-0.69	-1.39	
0.150	2.55	2.12	0.86	-0.22	-0.64	-0.86	-1.52	
0.200	2.65	1.97	0.54	-0.47	-0.84	-1.03	-1.63	
0.250	2.64	1.76	0.24	-0.69	-1.02	-1.18	-1.72	
0.300	2.49	1.41	-0.09	-0.90	-1.18	-1.32	-1.81	
0.350	2.32	1.08	-0.38	-1.08	-1.32	-1.44	-1.86	
0.400	2.15	0.77	-0.63	-1.24	-1.44	-1.53	-1.91	
0.450	1.95	0.45	-0.86	-1.37	-1.53	-1.62	-1.95	
0.500	1.67	0.05	-1.08	-1.49	-1.62	-1.68	-1.97	
0.550	1.41	-0.29	-1.27	-1.59	-1.69	-1.74	-1.99	
0.600	1.18	-0.57	-1.41	-1.66	-1.74	-1.79	-2.01	
0.650	0.96	-0.81	-1.52	-1.73	-1.79	-1.82	-2.02	
0.700	0.77	-1.01	-1.60	-1.77	-1.82	-1.85	-2.03	
0.750	0.56	-1.20	-1.67	-1.80	-1.87	-1.87	-2.03	
0.800	0.39	-1.32	-1.71	-1.81	-1.85	-1.87	-2.03	
0.850	0.26	-1.40	-1.73	-1.82	-1.85	-1.87	-2.03	
0.900	0.15	-1.44	-1.73	-1.82	-1.85	-1.86	-2.02	
0.950	0.05	-1.47	-1.72	-1.80	-1.83	-1.84	-2.00	
1.000	-0.04	-1.48	-1.71	-1.78	-1.80	-1.82	-1.99	
1.050	-0.18	-1.48	-1.68	-1.75	-1.77	-1.78	-1.96	
1.100	-0.48	-1.49	-1.65	-1.71	-1.73	-1.73	-1.94	
1.150	-0.65	-1.48	-1.62	-1.67	-1.69	-1.71	-1.91	
1.200	-0.76	-1.46	-1.58	-1.63	-1.65	-1.66	-1.88	
1.250	-0.83	-1.44	-1.55	-1.59	-1.61	-1.62	-1.85	
1.300	-0.89	-1.42	-1.51	-1.55	-1.57	-1.58	-1.82	
1.350	-0.94	-1.40	-1.48	-1.51	-1.53	-1.54	-1.79	
1.400	-0.98	-1.37	-1.44	-1.48	-1.49	-1.50	-1.76	
1.450	-1.00	-1.34	-1.41	-1.43	-1.45	-1.46	-1.73	
1.500	-1.02	-1.30	-1.36	-1.39	-1.40	-1.41	-1.69	
1.550	-1.01	-1.26	-1.31	-1.33	-1.35	-1.35	-1.65	
1.600	-0.99	-1.20	-1.25	-1.27	-1.28	-1.29	-1.60	
1.650	-0.97	-1.14	-1.18	-1.20	-1.21	-1.22	-1.54	
1.700	-0.92	-1.10	-1.12	-1.13	-1.14	-1.14	-1.47	
1.750	-0.86	-0.98	-1.02	-1.04	-1.05	-1.05	-1.40	
1.800	-0.79	-0.90	-0.93	-0.95	-0.95	-0.96	-1.32	
1.850	-0.71	-0.80	-0.83	-0.85	-0.86	-0.86	-1.23	

TABLE 30a

B-V vs. Z. (H ₀ =50, G ₀ =0, T _g =16).							
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	1.02	1.02	1.01	0.95	0.79	0.60	0.44
0.050	1.18	1.18	1.16	1.08	0.89	0.68	0.48
0.100	1.37	1.37	1.35	1.24	1.01	0.79	0.55
0.150	1.54	1.53	1.50	1.36	1.11	0.89	0.60
0.200	1.64	1.63	1.59	1.42	1.15	0.93	0.62
0.250	1.69	1.68	1.63	1.43	1.17	0.97	0.61
0.300	1.69	1.67	1.61	1.39	1.13	0.95	0.57
0.350	1.63	1.61	1.55	1.30	1.04	0.88	0.50
0.400	1.59	1.57	1.50	1.20	0.94	0.79	0.40
0.450	1.61	1.59	1.49	1.12	0.84	0.68	0.31
0.500	1.58	1.56	1.50	1.04	0.74	0.59	0.23
0.550	1.82	1.79	1.55	0.98	0.68	0.52	0.17
0.600	2.00	1.94	1.57	0.91	0.61	0.47	0.13
0.650	2.19	2.08	1.55	0.84	0.56	0.42	0.10
0.700	2.34	2.17	1.48	0.76	0.50	0.38	0.07
0.750	2.43	2.17	1.32	0.66	0.44	0.33	0.05
0.800	2.50	2.10	1.15	0.56	0.38	0.29	0.04
0.850	2.48	1.95	0.97	0.46	0.32	0.25	0.02
0.900	2.36	1.71	0.79	0.38	0.27	0.21	0.01
0.950	2.21	1.47	0.63	0.31	0.22	0.18	0.00
1.000	2.03	1.24	0.49	0.24	0.18	0.14	-0.02
1.050	1.84	1.02	0.38	0.19	0.13	0.11	-0.03
1.100	1.59	0.78	0.28	0.13	0.09	0.07	-0.04
1.150	1.39	0.60	0.20	0.09	0.06	0.04	-0.06
1.200	1.25	0.47	0.14	0.05	0.02	0.01	-0.08
1.250	1.16	0.39	0.09	0.02	0.00	-0.02	-0.10
1.300	1.12	0.33	0.06	0.00	-0.02	-0.04	-0.11
1.350	1.10	0.27	0.04	-0.02	-0.04	-0.05	-0.12
1.400	1.10	0.23	0.03	-0.03	-0.05	-0.06	-0.12
1.450	1.11	0.20	0.02	-0.04	-0.05	-0.07	-0.12
1.500	1.12	0.18	0.01	-0.04	-0.06	-0.07	-0.12
1.550	1.11	0.16	0.00	-0.04	-0.06	-0.07	-0.12
1.600	0.98	0.14	0.00	-0.04	-0.06	-0.07	-0.12
1.650	0.81	0.11	0.00	-0.04	-0.06	-0.07	-0.12
1.700	0.69	0.10	0.00	-0.04	-0.05	-0.06	-0.11
1.750	0.62	0.09	0.01	-0.02	-0.04	-0.04	-0.10
1.800	0.56	0.10	0.02	-0.01	-0.02	-0.03	-0.08
1.850	0.52	0.10	0.03	0.01	0.00	-0.01	-0.07
1.900	0.49	0.11	0.05	0.02	0.01	0.00	-0.06
1.950	0.45	0.11	0.06	0.03	0.02	0.02	-0.05
2.000	0.41	0.12	0.07	0.04	0.04	0.03	-0.04
2.100	0.33	0.13	0.09	0.07	0.06	0.06	-0.03
2.200	0.31	0.16	0.13	0.12	0.11	0.11	0.00
2.300	0.31	0.21	0.18	0.17	0.17	0.16	0.03
2.400	0.31	0.24	0.21	0.20	0.20	0.19	0.05
2.500	0.32	0.26	0.24	0.23	0.22	0.22	0.07
2.600	0.33	0.28	0.26	0.25	0.25	0.24	0.08
2.700	0.34	0.30	0.28	0.27	0.26	0.26	0.09
2.800	0.36	0.32	0.30	0.29	0.29	0.28	0.10
2.900	0.37	0.33	0.32	0.31	0.31	0.30	0.12
3.000	0.39	0.35	0.34	0.33	0.32	0.32	0.14

TABLE 30b

B-V vs. Z. (H ₀ =100, G ₀ =0, T _g =9).							
Z	0.90	0.70	0.50	0.30	0.15	0.01	0.85
0.004	0.95	0.94	0.90	0.76	0.63	0.52	0.35
0.050	1.10	1.08	1.02	0.86	0.71	0.59	0.38
0.100	1.27	1.26	1.17	0.98	0.82	0.71	0.45
0.150	1.43	1.40	1.30	1.08	0.92	0.80	0.50
0.200	1.52	1.48	1.36	1.14	0.98	0.87	0.53
0.250	1.58	1.54	1.40	1.16	1.01	0.90	0.53
0.300	1.57	1.53	1.37	1.14	0.99	0.89	0.50
0.350	1.53	1.48	1.31	1.06	0.92	0.83	0.44
0.400	1.53	1.46	1.24	0.97	0.82	0.73	0.35
0.450	1.56	1.46	1.17	0.87	0.72	0.63	0.26
0.500	1.62	1.47	1.10	0.77	0.62	0.53	0.18
0.550	1.72	1.50	1.04	0.70	0.55	0.47	0.13
0.600	1.83	1.52	0.98	0.63	0.49	0.41	0.09
0.650	1.94	1.53	0.92	0.58	0.45	0.37	0.07
0.700	2.00	1.48	0.85	0.52	0.40	0.33	0.05
0.750	1.99	1.35	0.74	0.46	0.35	0.30	0.03
0.800	1.93	1.20	0.64	0.40	0.31	0.26	0.02
0.850	1.83	1.04	0.54	0.34	0.26	0.22	0.01
0.900	1.71	0.90	0.43	0.29	0.23	0.19	0.00
0.950	1.59	0.76	0.37	0.24	0.19	0.16	-0.01
1.000	1.45	0.63	0.30	0.19	0.15	0.13	-0.02
1.050	1.30	0.51	0.23	0.15	0.12	0.10	-0.03
1.100	1.08	0.38	0.17	0.10	0.08	0.07	-0.05
1.150	0.90	0.28	0.12	0.07	0.05	0.03	-0.07
1.200	0.78	0.20	0.07	0.03	0.01	0.00	-0.08
1.250	0.69	0.15	0.04	0.00	-0.01	-0.02	-0.10
1.300	0.65	0.12	0.02	-0.02	-0.03	-0.04	-0.11
1.350	0.63	0.10	0.00	-0.03	-0.05	-0.05	-0.12
1.400	0.61	0.09	-0.01	-0.04	-0.05	-0.06	-0.12
1.450	0.60	0.08	-0.01	-0.05	-0.06	-0.07	-0.12
1.500	0.58	0.07	-0.02	-0.05	-0.06	-0.07	-0.12
1.550	0.56	0.07	-0.02	-0.05	-0.06	-0.07	-0.12
1.600	0.52	0.06	-0.02	-0.05	-0.06	-0.07	-0.12
1.650	0.47	0.05	-0.02	-0.05	-0.06	-0.07	-0.12
1.700	0.43	0.06	-0.01	-0.04	-0.05	-0.06	-0.11
1.750	0.40	0.06	0.00	-0.03	-0.04	-0.05	-0.10
1.800	0.39	0.07	0.01	-0.01	-0.02	-0.03	-0.09
1.850	0.37	0.08	0.03	0.00	-0.01	-0.01	-0.07
1.900	0.36	0.09	0.04	0.02	0.01	0.00	-0.06
1.950	0.34	0.10	0.05	0.03	0.02	0.02	-0.05
2.000	0.32	0.10	0.06	0.04	0.03	0.03	-0.05
2.100	0.28	0.12	0.09	0.07	0.06	0.06	-0.03
2.200	0.28	0.16	0.13	0.12	0.11	0.11	0.00
2.300	0.30	0.21	0.18	0.17	0.17	0.16	0.03
2.400	0.31	0.23	0.21	0.20	0.20	0.19	0.05
2.500	0.32	0.26	0.24	0.23	0.22	0.22	0.07
2.600	0.33	0.28	0.26	0.25	0.25	0.24	0.08
2.700	0.34	0.30	0.28	0.27	0.26	0.26	0.09
2.800	0.36	0.32	0.30	0.29	0.29	0.28	0.10
2.900	0.37	0.33	0.32	0.31	0.31	0.30	0.12
3.000	0.39	0.35	0.34	0.33	0.32	0.32	0.14

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