ONLINE SUPPLEMENTARY MATERIAL

Gestational weight gain charts: Results from the Brazilian Maternal and Child

Nutrition Consortium

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SUPPLEMENTARY TABLES

Supplementary table 1. Specifications of the Generalized Additive model for location, scale, and shape (GAMLSS) adjusted to each BMI category

	Specifications of the model				
BMI category	Distribution	DF (mu)	DF (sigma)	DF (nu)	DF (tau)
Underweight (n=1849 observations)	BCTo	4.22	2.00	2.00	2.00
Normal weight (n=18252 observations)	BCTo	6.80	2.04	2.00	2.00
Overweight (n= 6754 observations)	BCPEo	2.41	2.01	2.00	3.33
Obesity (n=2468 observations)	BCPEo	2.80	2.00	2.00	4.00

BCTo: Box-Cox t with log as the link function for μ; BCPEo: Box-Cox Power Exponential with log as the link function for μ; DF: degrees of freedom; BMI cutoffs: Underweight, BMI < 18.5 kg/m^2; Normal, BMI ≥ 18.5 and < 25.0 kg/m^2; Overweight, BMI ≥ 25.0 and < 30.0 kg/m^2 and Obesity, BMI ≥ 30.0 kg/m^2.

Supplementary table 2. Week-specific Box-Cox *t* model parameters and selected percentiles of gestational weight gain for pre-pregnancy underweight, Brazilian Maternal and Child Nutrition Consortium data.

Gestational age (weeks)	Model parameters				Percentiles of gestational weight gain (kg)															
	mu	sigma	nu	tau	P1	P2.3	P3	P5	P10	P16	P20	P25	P50	P75	P80	P84	P90	P95	P97.7	P99
10	21.126	0.097	-2.582	3.026	-4.3	-3.3	-3.0	-2.4	-1.5	-0.9	-0.6	-0.3	1.1	2.8	3.4	4.0	5.4	8.2	12.7	20.3
11	21.464	0.098	-2.479	3.139	-4.0	-3.0	-2.7	-2.1	-1.2	-0.6	-0.3	0.0	1.4	3.2	3.8	4.4	5.9	8.6	13.2	20.8
12	21.809	0.099	-2.377	3.255	-3.8	-2.8	-2.4	-1.8	-1.0	-0.3	0.0	0.3	1.8	3.6	4.2	4.8	6.3	9.1	13.7	21.4
13	22.161	0.101	-2.274	3.376	-3.5	-2.5	-2.2	-1.6	-0.7	0.0	0.3	0.6	2.1	4.0	4.6	5.3	6.8	9.6	14.1	21.9
14	22.526	0.102	-2.172	3.502	-3.2	-2.2	-1.9	-1.3	-0.4	0.3	0.6	1.0	2.5	4.4	5.1	5.7	7.2	10.0	14.6	22.3
15	22.907	0.103	-2.069	3.632	-3.0	-2.0	-1.6	-1.0	-0.1	0.6	0.9	1.3	2.9	4.9	5.5	6.2	7.7	10.5	15.0	22.8
16	23.306	0.104	-1.967	3.767	-2.7	-1.7	-1.3	-0.7	0.2	0.9	1.3	1.7	3.3	5.3	6.0	6.6	8.2	11.0	15.5	23.1
17	23.727	0.106	-1.864	3.908	-2.4	-1.4	-1.0	-0.4	0.6	1.3	1.7	2.1	3.7	5.8	6.5	7.1	8.7	11.5	15.9	23.4
18	24.170	0.107	-1.762	4.053	-2.1	-1.1	-0.7	0.0	0.9	1.7	2.0	2.4	4.2	6.3	7.0	7.6	9.2	12.0	16.4	23.7
19	24.635	0.108	-1.660	4.204	-1.8	-0.7	-0.4	0.3	1.3	2.0	2.4	2.9	4.6	6.8	7.5	8.2	9.8	12.6	16.9	23.9
20	25.118	0.109	-1.557	4.360	-1.5	-0.4	0.0	0.7	1.7	2.5	2.9	3.3	5.1	7.4	8.1	8.8	10.4	13.1	17.3	24.1
21	25.614	0.111	-1.455	4.522	-1.2	-0.1	0.3	1.0	2.1	2.9	3.3	3.7	5.6	7.9	8.6	9.3	10.9	13.7	17.8	24.4
22	26.118	0.112	-1.352	4.690	-0.9	0.3	0.6	1.4	2.5	3.3	3.7	4.2	6.1	8.5	9.2	9.9	11.5	14.3	18.3	24.5
23	26.624	0.113	-1.250	4.865	-0.6	0.6	1.0	1.8	2.9	3.7	4.1	4.6	6.6	9.0	9.8	10.5	12.1	14.9	18.8	24.7
24	27.126	0.115	-1.147	5.046	-0.3	0.9	1.3	2.1	3.2	4.1	4.6	5.1	7.1	9.6	10.4	11.1	12.7	15.5	19.2	24.8
25	27.622	0.116	-1.045	5.234	0.0	1.2	1.6	2.4	3.6	4.5	5.0	5.5	7.6	10.2	10.9	11.7	13.3	16.0	19.7	25.0
26	28.109	0.118	-0.942	5.428	0.3	1.5	2.0	2.8	4.0	4.9	5.4	5.9	8.1	10.7	11.5	12.2	13.9	16.6	20.1	25.1
27	28.589	0.119	-0.840	5.630	0.5	1.8	2.2	3.1	4.3	5.3	5.8	6.3	8.6	11.3	12.0	12.8	14.5	17.1	20.6	25.3
28	29.062	0.121	-0.738	5.840	0.8	2.1	2.5	3.4	4.7	5.7	6.2	6.7	9.1	11.8	12.6	13.4	15.0	17.6	21.0	25.5
29	29.529	0.122	-0.635	6.057	1.0	2.3	2.8	3.7	5.0	6.0	6.5	7.1	9.5	12.3	13.1	13.9	15.6	18.2	21.5	25.7
30	29.988	0.123	-0.533	6.282	1.2	2.6	3.1	4.0	5.3	6.4	6.9	7.5	10.0	12.8	13.6	14.4	16.1	18.7	21.9	26.0
31	30.438	0.125	-0.430	6.516	1.4	2.8	3.3	4.2	5.6	6.7	7.3	7.9	10.4	13.3	14.2	15.0	16.6	19.2	22.3	26.2

32	30.878	0.126	-0.328	6.758	1.5	3.0	3.5	4.5	5.9	7.0	7.6	8.3	10.9	13.8	14.7	15.5	17.2	19.7	22.7	26.5
33	31.307	0.128	-0.225	7.010	1.7	3.2	3.7	4.7	6.2	7.4	8.0	8.6	11.3	14.3	15.2	16.0	17.7	20.2	23.2	26.7
34	31.724	0.129	-0.123	7.271	1.8	3.4	3.9	5.0	6.5	7.7	8.3	9.0	11.7	14.8	15.6	16.5	18.2	20.6	23.6	27.0
35	32.129	0.131	-0.020	7.541	1.9	3.5	4.1	5.2	6.7	8.0	8.6	9.3	12.1	15.3	16.1	16.9	18.6	21.1	24.0	27.3
36	32.524	0.133	0.082	7.822	2.0	3.7	4.2	5.3	7.0	8.2	8.9	9.6	12.5	15.7	16.6	17.4	19.1	21.6	24.4	27.6
37	32.913	0.134	0.185	8.113	2.0	3.8	4.4	5.5	7.2	8.5	9.2	9.9	12.9	16.2	17.0	17.9	19.6	22.0	24.7	27.9
38	33.302	0.136	0.287	8.414	2.1	3.9	4.5	5.7	7.4	8.8	9.5	10.2	13.3	16.6	17.5	18.3	20.0	22.4	25.1	28.1
39	33.692	0.137	0.389	8.727	2.1	4.0	4.6	5.8	7.6	9.0	9.8	10.5	13.7	17.1	17.9	18.8	20.5	22.9	25.5	28.5
40	34.085	0.139	0.492	9.052	2.1	4.0	4.7	6.0	7.9	9.3	10.0	10.8	14.1	17.5	18.4	19.3	21.0	23.3	25.9	28.8

Supplementary table 3. Week-specific Box-Cox *t* model parameters and selected percentiles of gestational weight gain for pre-pregnancy normal weight, Brazilian Maternal and Child Nutrition Consortium data.

Gestational age (weeks)	Model parameters				Percentiles of gestational weight gain (kg)															
	mu	sigma	nu	tau	P1	P2.3	P3	P5	P10	P16	P20	P25	P50	P75	P80	P84	P90	P95	P97.7	P99
10	21.012	0.113	-0.147	3.590	-6.4	-4.9	-4.4	-3.6	-2.4	-1.5	-1.1	-0.7	1.0	2.9	3.4	4.0	5.2	7.1	9.8	13.5
11	21.224	0.114	-0.126	3.719	-6.2	-4.7	-4.3	-3.4	-2.2	-1.4	-0.9	-0.5	1.2	3.1	3.7	4.2	5.4	7.3	9.9	13.5
12	21.448	0.115	-0.106	3.854	-6.0	-4.5	-4.1	-3.2	-2.0	-1.2	-0.7	-0.3	1.5	3.4	3.9	4.5	5.6	7.6	10.1	13.6
13	21.690	0.115	-0.085	3.993	-5.8	-4.3	-3.9	-3.0	-1.8	-1.0	-0.5	-0.1	1.7	3.6	4.2	4.7	5.9	7.8	10.3	13.7
14	21.958	0.116	-0.064	4.137	-5.6	-4.1	-3.7	-2.8	-1.6	-0.7	-0.3	0.2	2.0	3.9	4.5	5.1	6.2	8.1	10.6	13.9
15	22.257	0.117	-0.044	4.286	-5.4	-3.9	-3.4	-2.6	-1.3	-0.5	0.0	0.4	2.3	4.3	4.8	5.4	6.6	8.5	10.9	14.1
16	22.593	0.118	-0.023	4.441	-5.1	-3.6	-3.2	-2.3	-1.1	-0.2	0.3	0.7	2.6	4.6	5.2	5.8	7.0	8.9	11.2	14.4
17	22.972	0.118	-0.002	4.602	-4.8	-3.3	-2.9	-2.0	-0.8	0.1	0.6	1.1	3.0	5.1	5.6	6.2	7.4	9.3	11.7	14.7
18	23.394	0.119	0.019	4.768	-4.5	-3.0	-2.6	-1.7	-0.4	0.5	0.9	1.4	3.4	5.5	6.1	6.7	7.9	9.8	12.2	15.2
19	23.853	0.120	0.040	4.940	-4.2	-2.7	-2.2	-1.3	0.0	0.9	1.4	1.9	3.9	6.0	6.6	7.2	8.5	10.4	12.7	15.7
20	24.342	0.121	0.060	5.119	-3.8	-2.3	-1.8	-0.9	0.4	1.3	1.8	2.3	4.3	6.6	7.2	7.8	9.0	11.0	13.3	16.2
21	24.844	0.122	0.081	5.303	-3.4	-1.9	-1.5	-0.5	0.8	1.7	2.2	2.8	4.8	7.1	7.8	8.4	9.6	11.6	13.9	16.8
22	25.347	0.122	0.102	5.495	-3.1	-1.6	-1.1	-0.1	1.2	2.2	2.7	3.2	5.4	7.7	8.3	9.0	10.2	12.2	14.5	17.4
23	25.844	0.123	0.122	5.694	-2.7	-1.2	-0.7	0.2	1.6	2.6	3.1	3.6	5.8	8.2	8.9	9.5	10.8	12.8	15.1	18.0
24	26.330	0.124	0.143	5.899	-2.4	-0.9	-0.4	0.6	2.0	3.0	3.5	4.1	6.3	8.8	9.4	10.1	11.4	13.4	15.7	18.5
25	26.803	0.125	0.164	6.112	-2.1	-0.5	0.0	0.9	2.4	3.4	3.9	4.5	6.8	9.3	10.0	10.6	12.0	14.0	16.3	19.1
26	27.263	0.126	0.185	6.333	-1.8	-0.2	0.3	1.3	2.7	3.8	4.3	4.9	7.3	9.8	10.5	11.2	12.5	14.5	16.9	19.6
27	27.714	0.126	0.205	6.562	-1.5	0.1	0.6	1.6	3.1	4.2	4.7	5.3	7.7	10.3	11.0	11.7	13.1	15.1	17.4	20.2
28	28.159	0.127	0.226	6.799	-1.2	0.4	0.9	2.0	3.4	4.5	5.1	5.7	8.2	10.8	11.5	12.2	13.6	15.6	18.0	20.7
29	28.597	0.128	0.247	7.045	-0.9	0.7	1.3	2.3	3.8	4.9	5.5	6.1	8.6	11.3	12.0	12.7	14.1	16.2	18.5	21.2
30	29.032	0.129	0.268	7.299	-0.6	1.0	1.6	2.6	4.1	5.2	5.8	6.5	9.0	11.8	12.5	13.2	14.7	16.7	19.1	21.8
31	29.473	0.130	0.288	7.563	-0.3	1.3	1.9	2.9	4.5	5.6	6.2	6.9	9.5	12.3	13.0	13.7	15.2	17.3	19.6	22.3
32	29.931	0.131	0.309	7.836	0.0	1.6	2.2	3.2	4.8	6.0	6.6	7.3	9.9	12.8	13.6	14.3	15.8	17.9	20.2	22.9

33	30.404	0.131	0.330	8.119	0.3	2.0	2.5	3.6	5.2	6.4	7.0	7.7	10.4	13.3	14.1	14.8	16.3	18.4	20.8	23.5
34	30.885	0.132	0.350	8.413	0.6	2.3	2.8	3.9	5.5	6.8	7.4	8.1	10.9	13.9	14.6	15.4	16.9	19.0	21.4	24.1
35	31.371	0.133	0.371	8.717	0.9	2.6	3.2	4.3	5.9	7.2	7.8	8.5	11.4	14.4	15.2	16.0	17.5	19.7	22.0	24.7
36	31.857	0.134	0.392	9.032	1.2	2.9	3.5	4.6	6.3	7.6	8.2	9.0	11.9	14.9	15.8	16.5	18.1	20.3	22.7	25.3
37	32.344	0.135	0.413	9.358	1.5	3.2	3.8	5.0	6.7	8.0	8.6	9.4	12.3	15.5	16.3	17.1	18.7	20.9	23.3	25.9
38	32.833	0.136	0.433	9.696	1.8	3.5	4.1	5.3	7.0	8.4	9.1	9.8	12.8	16.0	16.9	17.7	19.3	21.5	23.9	26.6
39	33.328	0.137	0.454	10.046	2.0	3.8	4.4	5.6	7.4	8.8	9.5	10.2	13.3	16.6	17.5	18.3	19.9	22.1	24.6	27.2
40	33.832	0.137	0.475	10.409	2.3	4.2	4.8	6.0	7.8	9.2	9.9	10.7	13.8	17.2	18.0	18.9	20.5	22.8	25.2	27.9

Supplementary table 4. Week-specific Box-Cox Power Exponential model parameters and selected percentiles of gestational weight gain for pre-pregnancy overweight, Brazilian Maternal and Child Nutrition Consortium data.

Gestational age (weeks)	Model parameters				Percentiles of gestational weight gain (kg)															
	mu	sigma	nu	tau	P1	P2.3	P3	P5	P10	P16	P20	P25	P50	P75	P80	P84	P90	P95	P97.7	P99
10	20.111	0.190	1.072	0.822	-10.9	-8.3	-7.5	-6.0	-4.0	-2.7	-2.1	-1.5	0.1	1.7	2.3	2.9	4.2	6.1	8.4	11.0
11	20.424	0.189	1.071	0.850	-10.7	-8.1	-7.3	-5.8	-3.8	-2.5	-1.9	-1.3	0.4	2.1	2.7	3.3	4.6	6.6	8.8	11.4
12	20.742	0.189	1.070	0.878	-10.5	-7.9	-7.1	-5.6	-3.6	-2.2	-1.6	-1.0	0.7	2.5	3.1	3.7	5.0	7.0	9.3	11.7
13	21.066	0.189	1.070	0.907	-10.2	-7.7	-6.9	-5.4	-3.3	-2.0	-1.4	-0.8	1.1	2.9	3.5	4.1	5.4	7.4	9.7	12.1
14	21.394	0.188	1.069	0.937	-10.0	-7.5	-6.7	-5.2	-3.1	-1.8	-1.1	-0.5	1.4	3.3	3.9	4.5	5.9	7.9	10.1	12.5
15	21.729	0.188	1.069	0.967	-9.8	-7.3	-6.5	-5.0	-2.9	-1.5	-0.9	-0.2	1.7	3.7	4.3	5.0	6.3	8.3	10.5	12.9
16	22.069	0.188	1.068	0.998	-9.5	-7.0	-6.3	-4.7	-2.7	-1.3	-0.6	0.0	2.1	4.1	4.7	5.4	6.7	8.7	11.0	13.4
17	22.415	0.187	1.068	1.029	-9.3	-6.8	-6.0	-4.5	-2.4	-1.0	-0.4	0.3	2.4	4.5	5.2	5.8	7.2	9.2	11.4	13.8
18	22.767	0.187	1.067	1.061	-9.0	-6.6	-5.8	-4.3	-2.2	-0.8	-0.1	0.6	2.8	4.9	5.6	6.3	7.7	9.7	11.9	14.2
19	23.126	0.186	1.067	1.094	-8.7	-6.3	-5.5	-4.0	-1.9	-0.5	0.2	0.9	3.1	5.4	6.0	6.7	8.1	10.1	12.3	14.6
20	23.490	0.186	1.066	1.128	-8.4	-6.0	-5.3	-3.8	-1.7	-0.2	0.5	1.2	3.5	5.8	6.5	7.2	8.6	10.6	12.8	15.1
21	23.861	0.186	1.065	1.163	-8.1	-5.8	-5.0	-3.5	-1.4	0.1	0.8	1.5	3.9	6.2	6.9	7.6	9.1	11.1	13.3	15.5
22	24.238	0.185	1.065	1.198	-7.8	-5.5	-4.7	-3.2	-1.1	0.3	1.1	1.8	4.2	6.7	7.4	8.1	9.5	11.6	13.7	16.0
23	24.621	0.185	1.064	1.234	-7.5	-5.2	-4.5	-3.0	-0.9	0.6	1.4	2.1	4.6	7.1	7.9	8.6	10.0	12.1	14.2	16.4
24	25.009	0.185	1.064	1.269	-7.2	-4.9	-4.2	-2.7	-0.6	0.9	1.7	2.4	5.0	7.6	8.3	9.1	10.5	12.6	14.7	16.9
25	25.404	0.184	1.063	1.305	-6.9	-4.6	-3.9	-2.4	-0.3	1.2	2.0	2.7	5.4	8.1	8.8	9.6	11.0	13.1	15.2	17.4
26	25.805	0.184	1.063	1.339	-6.6	-4.3	-3.6	-2.1	0.0	1.5	2.3	3.1	5.8	8.5	9.3	10.1	11.5	13.6	15.7	17.8
27	26.211	0.184	1.062	1.373	-6.3	-4.0	-3.3	-1.8	0.3	1.8	2.6	3.4	6.2	9.0	9.8	10.6	12.0	14.1	16.2	18.4
28	26.623	0.183	1.062	1.404	-6.0	-3.7	-3.0	-1.5	0.6	2.2	2.9	3.7	6.6	9.5	10.3	11.1	12.6	14.6	16.7	18.9
29	27.042	0.183	1.061	1.434	-5.7	-3.4	-2.7	-1.2	0.9	2.5	3.3	4.1	7.0	10.0	10.8	11.6	13.1	15.1	17.3	19.4
30	27.467	0.182	1.060	1.462	-5.3	-3.1	-2.4	-0.9	1.2	2.8	3.6	4.5	7.5	10.5	11.3	12.1	13.6	15.7	17.8	19.9
31	27.898	0.182	1.060	1.487	-5.0	-2.8	-2.1	-0.6	1.6	3.2	4.0	4.8	7.9	11.0	11.8	12.6	14.1	16.2	18.4	20.5
32	28.336	0.182	1.059	1.510	-4.7	-2.5	-1.7	-0.3	1.9	3.5	4.3	5.2	8.3	11.5	12.3	13.1	14.7	16.8	18.9	21.0

33	28.780	0.181	1.059	1.530	-4.4	-2.2	-1.4	0.1	2.3	3.9	4.7	5.6	8.8	12.0	12.8	13.6	15.2	17.3	19.5	21.6
34	29.232	0.181	1.058	1.547	-4.1	-1.9	-1.1	0.4	2.6	4.3	5.1	6.0	9.2	12.5	13.4	14.2	15.8	17.9	20.1	22.2
35	29.690	0.181	1.058	1.562	-3.8	-1.5	-0.8	0.7	3.0	4.6	5.5	6.4	9.7	13.0	13.9	14.7	16.3	18.5	20.7	22.8
36	30.156	0.180	1.057	1.575	-3.5	-1.2	-0.4	1.1	3.3	5.0	5.9	6.8	10.2	13.5	14.4	15.3	16.9	19.1	21.3	23.4
37	30.630	0.180	1.056	1.584	-3.2	-0.9	-0.1	1.4	3.7	5.4	6.3	7.2	10.6	14.0	15.0	15.8	17.5	19.7	21.9	24.1
38	31.110	0.180	1.056	1.591	-2.9	-0.5	0.2	1.8	4.1	5.8	6.7	7.6	11.1	14.6	15.5	16.4	18.1	20.3	22.5	24.7
39	31.599	0.179	1.055	1.596	-2.5	-0.2	0.6	2.2	4.5	6.2	7.1	8.1	11.6	15.1	16.1	16.9	18.6	20.9	23.2	25.4
40	32.095	0.179	1.055	1.601	-2.2	0.1	0.9	2.5	4.9	6.6	7.5	8.5	12.1	15.7	16.6	17.5	19.2	21.5	23.8	26.1

Supplementary table 5. Week-specific Box-Cox Power Exponential model parameters and selected percentiles of gestational weight gain for pre-pregnancy obesity, Brazilian Maternal and Child Nutrition Consortium data.

Gestational age (weeks)	Model parameters				Percentiles of gestational weight gain (kg)															
	mu	sigma	nu	tau	P1	P2.3	P3	P5	P10	P16	P20	P25	P50	P75	P80	P84	P90	P95	P97.7	P99
10	19.997	0.245	1.256	0.830	-13.6	-10.7	-9.7	-7.8	-5.2	-3.6	-2.8	-2.1	0.0	2.1	2.8	3.5	5.1	7.5	10.2	13.2
11	20.157	0.245	1.238	0.890	-13.6	-10.7	-9.7	-7.8	-5.3	-3.6	-2.8	-2.1	0.2	2.4	3.1	3.9	5.4	7.8	10.5	13.3
12	20.322	0.245	1.220	0.954	-13.5	-10.7	-9.7	-7.8	-5.3	-3.6	-2.8	-2.0	0.3	2.7	3.4	4.2	5.8	8.1	10.7	13.4
13	20.492	0.245	1.202	1.018	-13.4	-10.6	-9.7	-7.8	-5.3	-3.6	-2.8	-2.0	0.5	3.0	3.7	4.5	6.1	8.4	10.9	13.6
14	20.670	0.245	1.184	1.084	-13.2	-10.5	-9.6	-7.8	-5.3	-3.6	-2.8	-1.9	0.7	3.3	4.1	4.8	6.4	8.7	11.2	13.7
15	20.857	0.245	1.165	1.149	-13.1	-10.4	-9.5	-7.7	-5.2	-3.5	-2.7	-1.9	0.9	3.6	4.4	5.2	6.8	9.0	11.4	13.9
16	21.057	0.245	1.147	1.212	-12.8	-10.2	-9.3	-7.6	-5.2	-3.5	-2.6	-1.8	1.1	3.9	4.7	5.5	7.1	9.3	11.7	14.1
17	21.271	0.245	1.129	1.271	-12.6	-10.1	-9.2	-7.5	-5.1	-3.4	-2.5	-1.7	1.3	4.2	5.0	5.8	7.4	9.7	12.0	14.4
18	21.500	0.245	1.111	1.326	-12.4	-9.9	-9.0	-7.4	-5.0	-3.3	-2.4	-1.5	1.5	4.5	5.4	6.2	7.8	10.0	12.4	14.7
19	21.745	0.245	1.093	1.375	-12.1	-9.7	-8.8	-7.2	-4.8	-3.1	-2.3	-1.4	1.8	4.8	5.7	6.5	8.2	10.4	12.7	15.0
20	22.007	0.245	1.074	1.418	-11.9	-9.5	-8.6	-7.0	-4.7	-3.0	-2.1	-1.2	2.0	5.2	6.1	6.9	8.6	10.8	13.1	15.4
21	22.285	0.245	1.056	1.452	-11.6	-9.2	-8.4	-6.8	-4.5	-2.8	-1.9	-1.0	2.3	5.5	6.4	7.3	9.0	11.2	13.5	15.8
22	22.578	0.245	1.038	1.476	-11.4	-9.0	-8.2	-6.6	-4.3	-2.6	-1.7	-0.8	2.6	5.9	6.8	7.7	9.4	11.7	14.0	16.3
23	22.884	0.245	1.020	1.492	-11.2	-8.8	-8.0	-6.4	-4.1	-2.3	-1.4	-0.5	2.9	6.3	7.2	8.1	9.8	12.1	14.5	16.8
24	23.201	0.245	1.002	1.499	-10.9	-8.6	-7.8	-6.2	-3.8	-2.1	-1.2	-0.3	3.2	6.7	7.6	8.5	10.2	12.6	15.0	17.4
25	23.527	0.245	0.984	1.497	-10.7	-8.4	-7.6	-6.0	-3.6	-1.8	-0.9	0.0	3.5	7.0	8.0	8.9	10.7	13.1	15.6	18.0
26	23.860	0.245	0.965	1.487	-10.5	-8.2	-7.3	-5.7	-3.3	-1.5	-0.6	0.3	3.9	7.4	8.4	9.3	11.1	13.6	16.1	18.6
27	24.198	0.245	0.947	1.472	-10.3	-7.9	-7.1	-5.5	-3.1	-1.3	-0.3	0.6	4.2	7.8	8.8	9.7	11.6	14.1	16.7	19.3
28	24.539	0.245	0.929	1.455	-10.2	-7.7	-6.9	-5.2	-2.8	-1.0	0.0	1.0	4.5	8.2	9.2	10.1	12.0	14.6	17.3	20.0
29	24.883	0.245	0.911	1.437	-10.0	-7.5	-6.7	-5.0	-2.5	-0.7	0.3	1.3	4.9	8.5	9.6	10.5	12.5	15.1	17.9	20.7
30	25.228	0.245	0.893	1.420	-9.8	-7.3	-6.4	-4.7	-2.2	-0.4	0.6	1.6	5.2	8.9	10.0	11.0	12.9	15.7	18.5	21.4
31	25.575	0.245	0.874	1.406	-9.6	-7.1	-6.2	-4.5	-2.0	-0.1	0.9	1.9	5.6	9.3	10.4	11.4	13.4	16.2	19.1	22.1
32	25.925	0.245	0.856	1.394	-9.4	-6.8	-6.0	-4.2	-1.7	0.2	1.2	2.2	5.9	9.7	10.8	11.8	13.9	16.7	19.7	22.8

33	26.279	0.245	0.838	1.385	-9.2	-6.6	-5.7	-4.0	-1.4	0.5	1.5	2.6	6.3	10.1	11.2	12.2	14.3	17.3	20.3	23.5
34	26.638	0.246	0.820	1.379	-8.9	-6.4	-5.5	-3.7	-1.1	0.8	1.8	2.9	6.6	10.5	11.6	12.7	14.8	17.8	21.0	24.2
35	27.003	0.246	0.802	1.377	-8.7	-6.1	-5.2	-3.5	-0.8	1.1	2.1	3.2	7.0	10.9	12.1	13.1	15.3	18.4	21.6	24.9
36	27.374	0.246	0.784	1.379	-8.4	-5.9	-5.0	-3.2	-0.6	1.4	2.4	3.5	7.4	11.4	12.5	13.6	15.8	18.9	22.2	25.6
37	27.751	0.246	0.765	1.386	-8.2	-5.6	-4.7	-2.9	-0.3	1.7	2.8	3.8	7.8	11.8	13.0	14.1	16.4	19.5	22.9	26.3
38	28.132	0.246	0.747	1.396	-7.9	-5.3	-4.4	-2.7	0.0	2.0	3.1	4.1	8.1	12.3	13.5	14.6	16.9	20.1	23.5	27.0
39	28.516	0.246	0.729	1.408	-7.6	-5.0	-4.2	-2.4	0.3	2.3	3.4	4.5	8.5	12.7	13.9	15.1	17.4	20.7	24.2	27.7
40	28.905	0.246	0.711	1.421	-7.3	-4.8	-3.9	-2.1	0.6	2.6	3.7	4.8	8.9	13.2	14.4	15.6	18.0	21.3	24.8	28.4