

Authors	Energy Range (eV)	Technique	Temperature (K) RT unless specified	Sample				Data Presentation	Remarks Mn
				Film	X-tal	Bulk	Prep		
Sa39	2.6-27.6	Ref1		x			Ex	R	
LT66	0.06-0.25	Ellips				x	MP	$\epsilon_2/\lambda, -\epsilon_1$	
SHK69	40-300	Trans		x			Ex	$\mu$	optical absorption with synchrotron radiation
JC74	0.64-6.6	Trans, Ref1		x			Ex	$n, k, \sigma$	table of E, n, k
St74	0.8-4	Ellips				x	MP	$\epsilon_2/\lambda, \epsilon_1$	
WeG74	2-130	Trans		x			Ex	KK: $\mu$	energy loss spectroscopy
WGa74	2-120	Trans		x			Ex	$\mu, \text{Im}(\epsilon^{-1}); \text{KK: } \epsilon_1, \epsilon_2$	energy loss spectroscopy

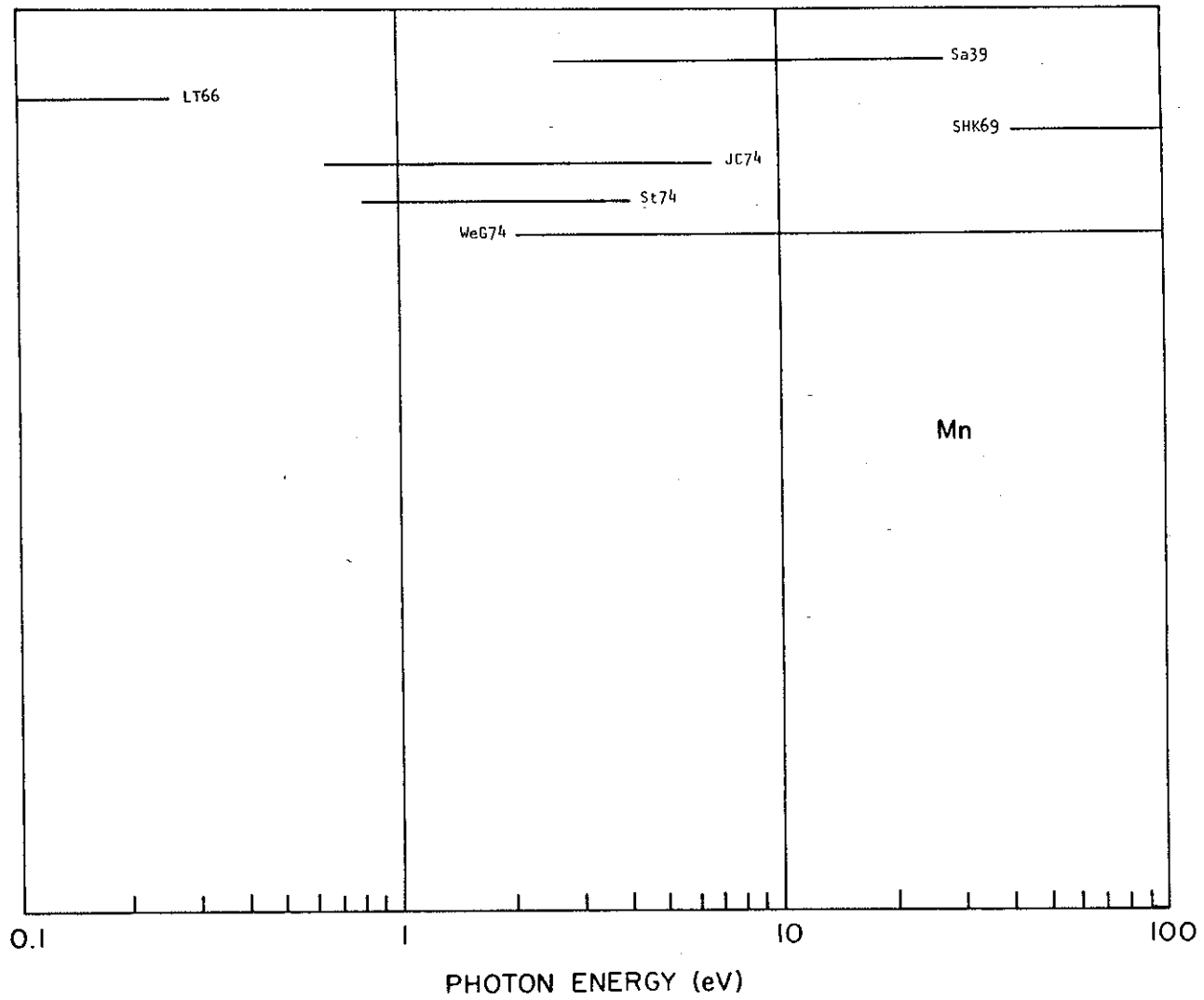


Fig. 17 Survey of available data for Mn

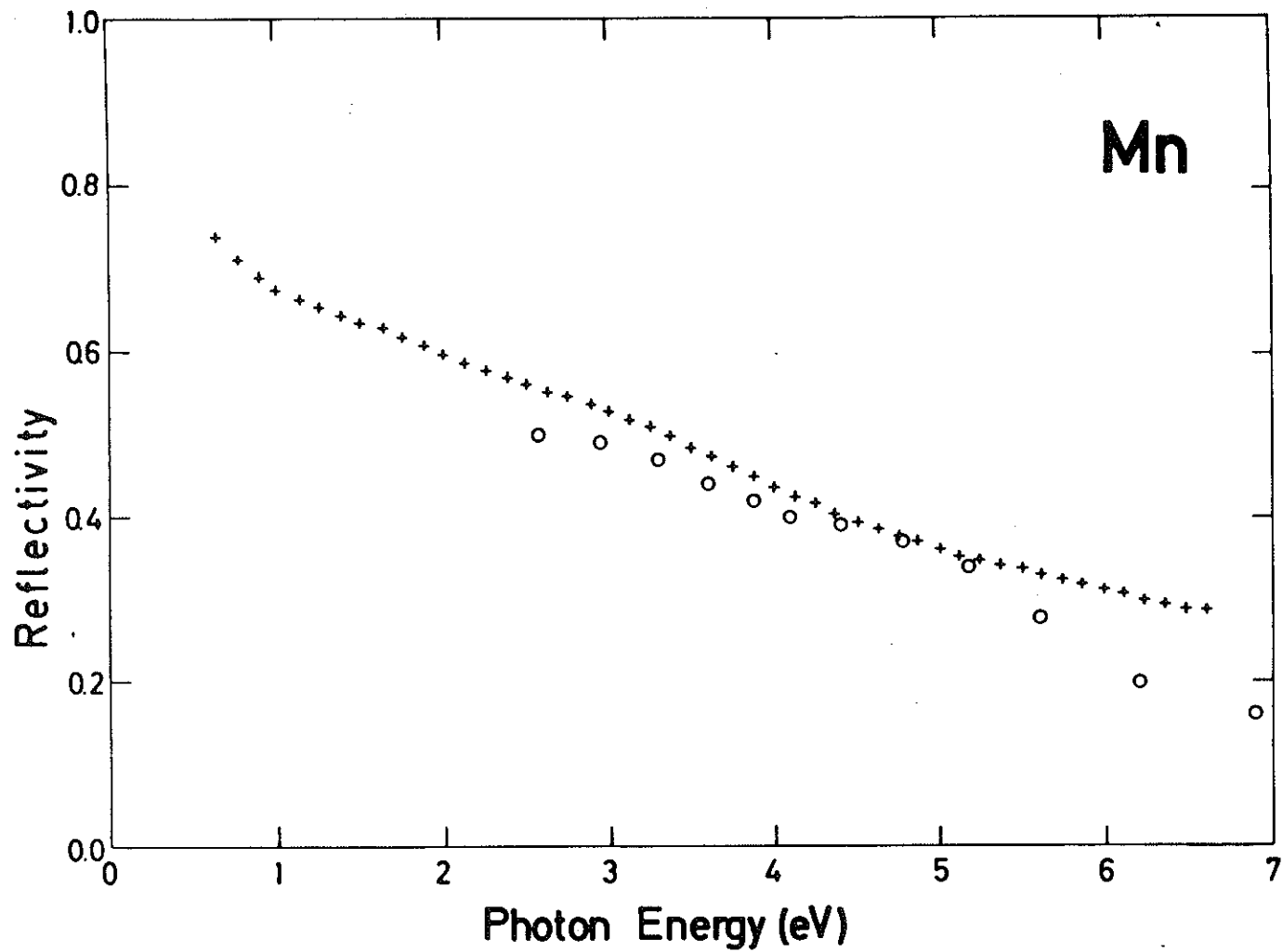


Fig. 18 Reflectivity of Mn. +++ JC74; ooo Sa39.

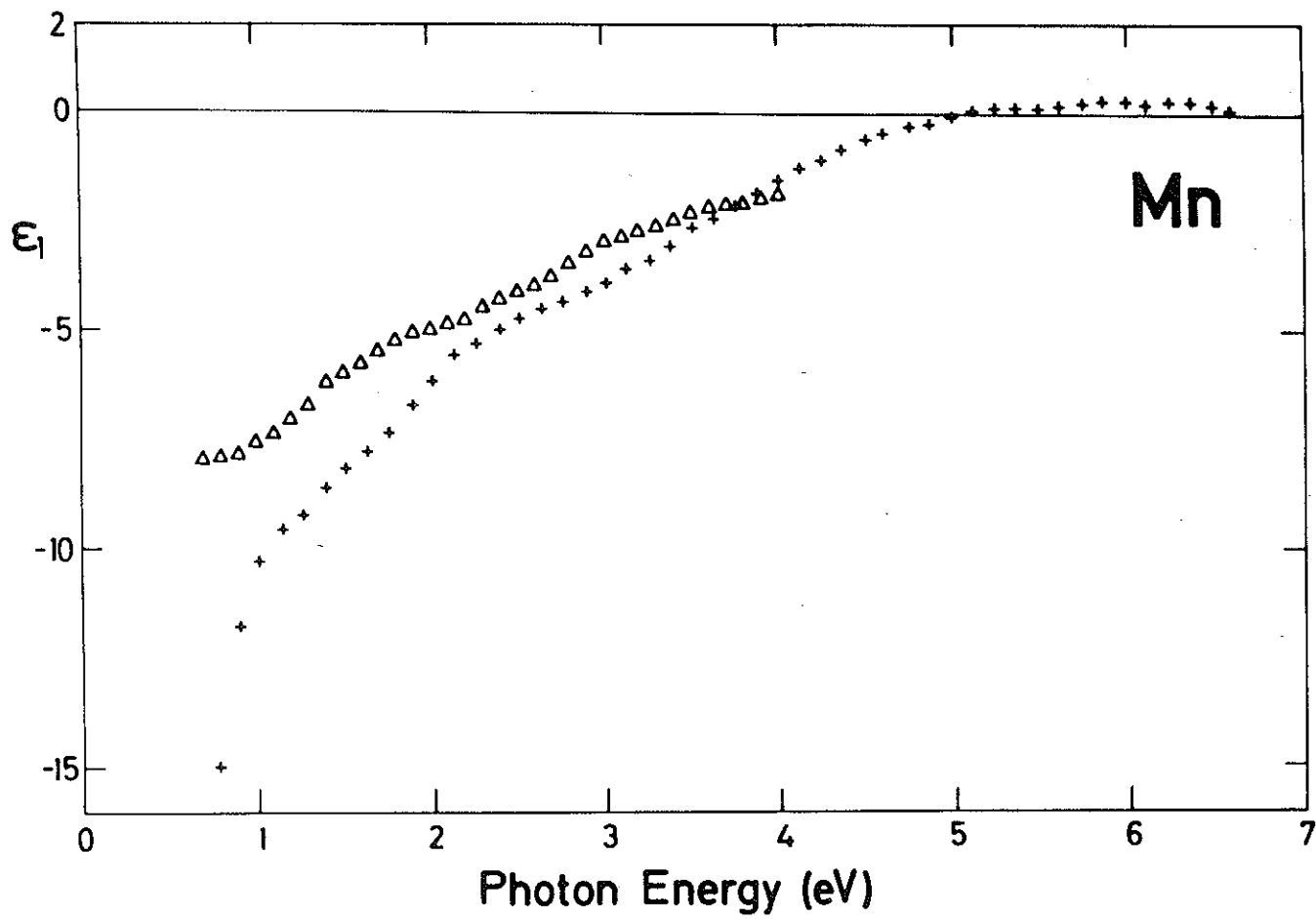


Fig. 19  $\epsilon_1$  for Mn.  $+++$  JC74;  $\Delta\Delta\Delta$  St74.

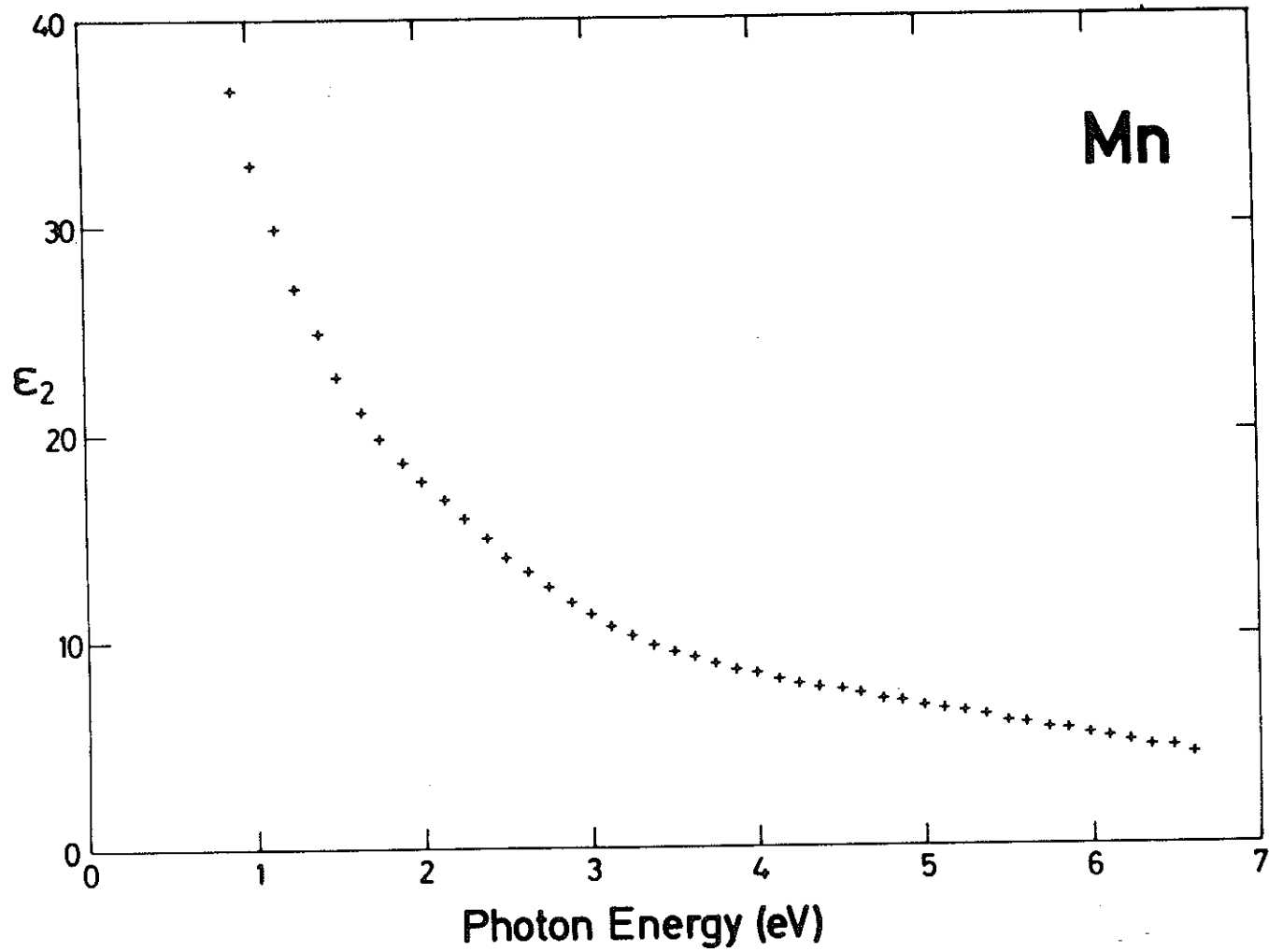


Fig. 20  $\epsilon_2$  for Mn. +++ JC74.

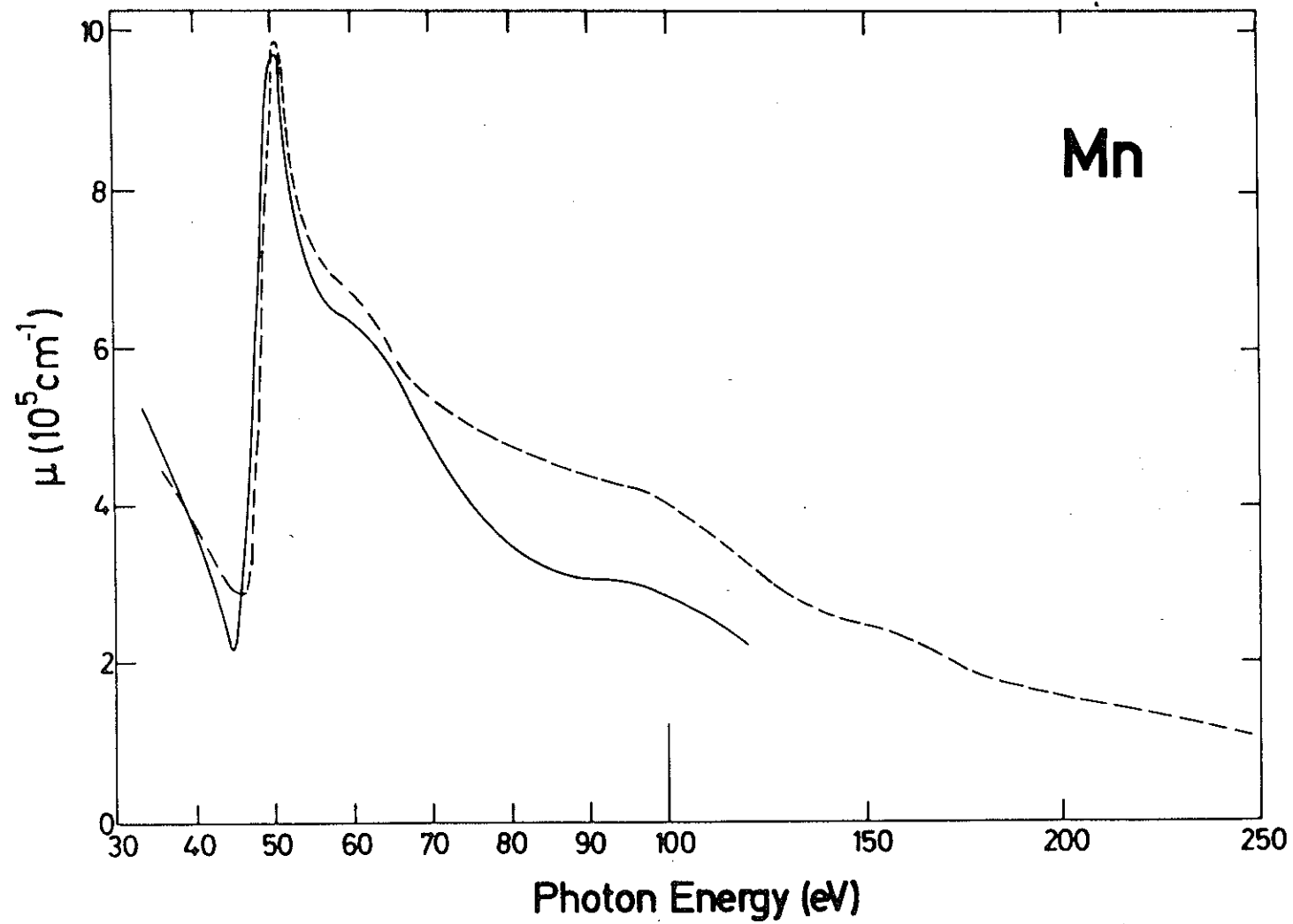


Fig. 21 Absorption coefficient for Mn. — WeG74; --- SHK69.

## Manganese

data from P.B. Johnson and R.W. Christy, Phys. Rev. B 9, 5056 (1974)

Energy (eV)	$\epsilon_1$	$\epsilon_2$	n	k	$\text{Im}(-1/\bar{\epsilon})$	$R(\phi=0)$
0.64	-20.27	46.29	3.89	5.95	0.02	.738
0.77	-14.98	40.90	3.78	5.41	0.02	.710
0.89	-11.88	36.65	3.65	5.02	0.02	.688
1.02	-10.36	32.99	3.48	4.74	0.03	.673
1.14	-9.63	29.90	3.30	4.53	0.03	.662
1.26	-9.31	26.97	3.10	4.35	0.03	.653
1.39	-8.65	24.83	2.97	4.18	0.04	.643
1.51	-8.23	22.81	2.83	4.03	0.04	.634
1.64	-8.00	21.11	2.70	3.91	0.04	.627
1.76	-7.42	19.81	2.62	3.78	0.04	.617
1.88	-6.77	18.69	2.56	3.65	0.05	.606
2.01	-6.23	17.77	2.51	3.54	0.05	.596
2.13	-5.66	16.94	2.47	3.43	0.05	.585
2.26	-5.38	15.92	2.39	3.33	0.06	.577
2.38	-5.05	14.99	2.32	3.23	0.06	.567
2.50	-4.80	14.13	2.25	3.14	0.06	.559
2.63	-4.57	13.40	2.19	3.06	0.07	.552
2.75	-4.43	12.58	2.11	2.98	0.07	.545
2.88	-4.17	11.95	2.06	2.90	0.07	.536
3.00	-3.95	11.28	2.00	2.82	0.08	.528
3.12	-3.67	10.74	1.96	2.74	0.08	.518
3.25	-3.44	10.25	1.92	2.67	0.09	.509
3.37	-3.14	9.79	1.89	2.59	0.09	.498
3.50	-2.73	9.49	1.89	2.51	0.10	.484
3.62	-2.51	9.16	1.87	2.45	0.10	.475
3.74	-2.20	8.85	1.86	2.38	0.11	.463
3.87	-1.92	8.63	1.86	2.32	0.11	.451
3.99	-1.60	8.37	1.86	2.25	0.12	.438
4.12	-1.34	8.15	1.86	2.19	0.12	.427
4.24	-1.16	7.92	1.85	2.14	0.12	.417
4.36	-0.90	7.70	1.85	2.08	0.13	.406
4.49	-0.66	7.55	1.86	2.03	0.13	.395
4.61	-0.54	7.36	1.85	1.99	0.14	.388
4.74	-0.38	7.14	1.84	1.94	0.14	.378
4.86	-0.30	6.99	1.83	1.91	0.14	.372
4.98	-0.15	6.77	1.82	1.86	0.15	.362
5.11	0.00	6.62	1.82	1.82	0.15	.354
5.23	0.07	6.48	1.81	1.79	0.15	.348
5.36	0.07	6.27	1.78	1.76	0.16	.342
5.48	0.03	6.02	1.74	1.73	0.17	.337
5.60	0.10	5.88	1.73	1.70	0.17	.331
5.73	0.17	5.74	1.72	1.67	0.17	.325
5.85	0.20	5.58	1.70	1.64	0.18	.319
5.98	0.20	5.38	1.67	1.61	0.19	.313
6.10	0.16	5.15	1.63	1.58	0.19	.307
6.22	0.22	5.02	1.62	1.55	0.20	.301
6.35	0.22	4.83	1.59	1.52	0.21	.295
6.47	0.15	4.65	1.55	1.50	0.21	.292
6.60	0.03	4.35	1.48	1.47	0.23	.288