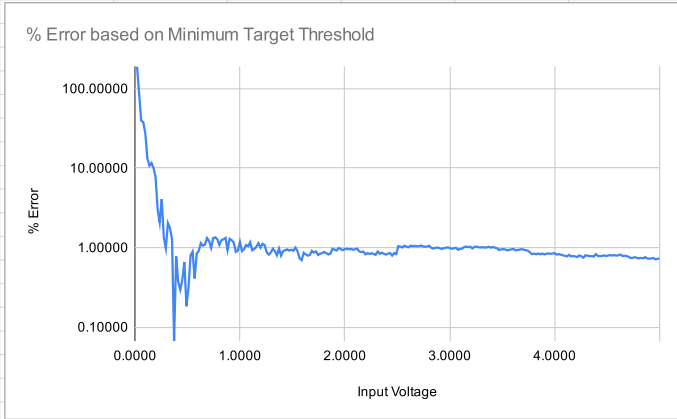
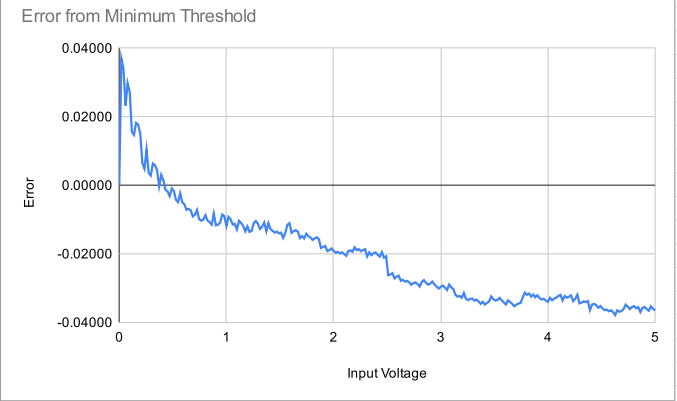


differential from previous value	Input voltage target	Test data (from 0)	Error	Avg Error	Binary Output	% Error	bands of deviation (19.6 mv)	rebuild circuit minimal values	old bad data (chip)
	5.0000	4.9635	-0.03650	-0.02084	11111111	255	0.73000	-1.8615	
0.0191	4.9804	4.9444	-0.03599		11111110	254	0.72268	-1.8356	
0.0189	4.9608	4.9255	-0.03528		11111101	253	0.71126	-1.7995	
0.0209	4.9412	4.9046	-0.03658		11111100	252	0.74024	-1.8654	
0.0191	4.9216	4.8855	-0.03607		11111011	251	0.73287	-1.8395	
0.0190	4.9020	4.8665	-0.03546		11111010	250	0.72340	-1.8085	
0.0199	4.8824	4.8466	-0.03575		11111001	249	0.73229	-1.8234	
0.0208	4.8627	4.8258	-0.03695		11111000	248	0.75976	-1.8842	
0.0182	4.8431	4.8076	-0.03554		11110111	247	0.73377	-1.8124	
0.0199	4.8235	4.7877	-0.03583		11110110	246	0.74280	-1.8273	
0.0190	4.8039	4.7687	-0.03522		11110101	245	0.73318	-1.7963	
0.0199	4.7843	4.7488	-0.03551		11110100	244	0.74230	-1.8112	
0.0202	4.7647	4.7286	-0.03611		11110011	243	0.75778	-1.8414	
0.0189	4.7451	4.7097	-0.03540		11110010	242	0.74599	-1.8053	
0.0190	4.7255	4.6907	-0.03479		11110001	241	0.73622	-1.7743	
0.0209	4.7059	4.6698	-0.03608		11110000	240	0.76675	-1.8402	
0.0202	4.6863	4.6496	-0.03667		11101111	239	0.78259	-1.8704	
0.0198	4.6667	4.6298	-0.03687		11101110	238	0.79000	-1.8802	
0.0192	4.6471	4.6106	-0.03646		11101101	237	0.78456	-1.8594	
0.0210	4.6275	4.5896	-0.03785		11101100	236	0.81797	-1.9304	
0.0187	4.6078	4.5709	-0.03694		11101011	235	0.80174	-1.8841	
0.0191	4.5882	4.5518	-0.03644		11101010	234	0.79410	-1.8582	
0.0199	4.5686	4.5319	-0.03673		11101001	233	0.80391	-1.8731	
0.0191	4.5490	4.5128	-0.03622		11101000	232	0.79621	-1.8472	
0.0198	4.5294	4.4930	-0.03641		11100111	231	0.80390	-1.857	
0.0191	4.5098	4.4739	-0.03590		11100110	230	0.79613	-1.8311	
0.0189	4.4902	4.4550	-0.03520		11100101	229	0.78384	-1.795	
0.0201	4.4706	4.4349	-0.03569		11100100	228	0.79829	-1.8201	
0.0189	4.4510	4.4160	-0.03498		11100011	227	0.78590	-1.784	
0.0192	4.4314	4.3968	-0.03457		11100010	226	0.78018	-1.7632	
0.0198	4.4118	4.3770	-0.03476		11100001	225	0.78800	-1.773	
0.0212	4.3922	4.3558	-0.03636		11100000	224	0.82777	-1.8542	
0.0170	4.3725	4.3388	-0.03375		11011111	223	0.77184	-1.7212	
0.0199	4.3529	4.3189	-0.03404		11011110	222	0.78203	-1.7361	
0.0194	4.3333	4.2995	-0.03383		11011101	221	0.78077	-1.7255	
0.0200	4.3137	4.2795	-0.03423		11011100	220	0.79341	-1.7455	
0.0198	4.2941	4.2597	-0.03442		11011011	219	0.80151	-1.7553	
0.0171	4.2745	4.2426	-0.03191		11011010	218	0.74651	-1.6274	
0.0208	4.2549	4.2218	-0.03310		11011001	217	0.77797	-1.6882	
0.0203	4.2353	4.2015	-0.03379		11011000	216	0.79792	-1.7235	
0.0179	4.2157	4.1836	-0.03209		11010111	215	0.76112	-1.6364	
0.0200	4.1961	4.1636	-0.03248		11010110	214	0.77402	-1.6564	
0.0199	4.1765	4.1437	-0.03277		11010101	213	0.78465	-1.6713	
0.0191	4.1569	4.1246	-0.03226		11010100	212	0.77613	-1.6454	
0.0209	4.1373	4.1037	-0.03355		11010011	211	0.81104	-1.7113	
0.0180	4.1176	4.0857	-0.03195		11010010	210	0.77586	-1.6293	
0.0199	4.0980	4.0658	-0.03224		11010001	209	0.78670	-1.6442	
0.0201	4.0784	4.0457	-0.03273		11010000	208	0.80255	-1.6693	
0.0199	4.0588	4.0258	-0.03302		11001111	207	0.81362	-1.6842	
0.0201	4.0392	4.0057	-0.03352		11001110	206	0.82976	-1.7093	
0.0189	4.0196	3.9868	-0.03281		11001101	205	0.81620	-1.6732	
0.0208	4.0000	3.9660	-0.03400		11001100	204	0.85000	-1.734	
0.0192	3.9804	3.9468	-0.03359		11001011	203	0.84394	-1.7132	
0.0191	3.9608	3.9277	-0.03308		11001010	202	0.83530	-1.6873	



0.0198	3.9412	3.9079	-0.03328	11001001	201	0.84433	-1.6971
0.0192	3.9216	3.8887	-0.03287	11001000	200	0.83815	-1.6763
0.0188	3.9020	3.8699	-0.03206	11000111	199	0.82166	-1.6351
0.0202	3.8824	3.8497	-0.03265	11000110	198	0.84106	-1.6653
0.0188	3.8627	3.8309	-0.03185	11000101	197	0.82442	-1.6241
0.0202	3.8431	3.8107	-0.03244	11000100	196	0.84403	-1.6543
0.0187	3.8235	3.7920	-0.03153	11000011	195	0.82462	-1.608
0.0200	3.8039	3.7720	-0.03192	11000010	194	0.83918	-1.628
0.0190	3.7843	3.7530	-0.03131	11000001	193	0.82746	-1.597
0.0210	3.7647	3.7320	-0.03271	11000000	192	0.86875	-1.668
0.0212	3.7451	3.7108	-0.03430	10111111	191	0.91581	-1.7492
0.0198	3.7255	3.6910	-0.03449	10111110	190	0.92579	-1.759
0.0199	3.7059	3.6711	-0.03478	10111101	189	0.93857	-1.7739
0.0201	3.6863	3.6510	-0.03527	10111100	188	0.95691	-1.799
0.0189	3.6667	3.6321	-0.03457	10111011	187	0.94273	-1.7629
0.0191	3.6471	3.6130	-0.03406	10111010	186	0.93387	-1.737
0.0191	3.6275	3.5939	-0.03355	10111001	185	0.92492	-1.7111
0.0208	3.6078	3.5731	-0.03474	10111000	184	0.96299	-1.7719
0.0190	3.5882	3.5541	-0.03414	10110111	183	0.95131	-1.7409
0.0190	3.5686	3.5351	-0.03353	10110110	182	0.93951	-1.7099
0.0189	3.5490	3.5162	-0.03282	10110101	181	0.92475	-1.6738
0.0202	3.5294	3.4960	-0.03341	10110100	180	0.94667	-1.704
0.0198	3.5098	3.4762	-0.03360	10110011	179	0.95743	-1.7138
0.0192	3.4902	3.4570	-0.03320	10110010	178	0.95112	-1.693
0.0188	3.4706	3.4382	-0.03239	10110001	177	0.93322	-1.6518
0.0211	3.4510	3.4171	-0.03388	10110000	176	0.98176	-1.7279
0.0200	3.4314	3.3971	-0.03427	10101111	175	0.99880	-1.7479
0.0201	3.4118	3.3770	-0.03476	10101110	174	1.01897	-1.773
0.0188	3.3922	3.3582	-0.03396	10101101	173	1.00104	-1.7318
0.0202	3.3725	3.3380	-0.03455	10101100	172	1.02442	-1.762
0.0189	3.3529	3.3191	-0.03384	10101011	171	1.00930	-1.7259
0.0191	3.3333	3.3000	-0.03333	10101010	170	1.00000	-1.7
0.0199	3.3137	3.2801	-0.03363	10101001	169	1.01473	-1.7149
0.0190	3.2941	3.2611	-0.03302	10101000	168	1.00232	-1.6839
0.0197	3.2745	3.2414	-0.03311	10100111	167	1.01114	-1.6886
0.0200	3.2549	3.2214	-0.03350	10100110	166	1.02928	-1.7086
0.0192	3.2353	3.2022	-0.03309	10100101	165	1.02291	-1.6878
0.0179	3.2157	3.1843	-0.03139	10100100	164	0.97604	-1.6007
0.0210	3.1961	3.1633	-0.03278	10100011	163	1.02558	-1.6717
0.0191	3.1765	3.1442	-0.03227	10100010	162	1.01593	-1.6458
0.0198	3.1569	3.1244	-0.03246	10100001	161	1.02832	-1.6556
0.0191	3.1373	3.1053	-0.03195	10100000	160	1.01856	-1.6297
0.0179	3.1176	3.0874	-0.03025	10011111	159	0.97019	-1.5426
0.0191	3.0980	3.0683	-0.02974	10011110	158	0.95994	-1.5167
0.0188	3.0784	3.0495	-0.02893	10011101	157	0.93981	-1.4755
0.0212	3.0588	3.0283	-0.03052	10011100	156	0.99788	-1.5567
0.0189	3.0392	3.0094	-0.02982	10011011	155	0.98103	-1.5206
0.0190	3.0196	2.9904	-0.02921	10011010	154	0.96727	-1.4896
0.0200	3.0000	2.9704	-0.02960	10011001	153	0.98667	-1.5096
0.0201	2.9804	2.9503	-0.03009	10011000	152	1.00967	-1.5347
0.0190	2.9608	2.9313	-0.02948	10010111	151	0.99583	-1.5037
0.0190	2.9412	2.9123	-0.02888	10010110	150	0.98180	-1.4727
0.0188	2.9216	2.8935	-0.02807	10010101	149	0.96074	-1.4315
0.0202	2.9020	2.8733	-0.02866	10010100	148	0.98764	-1.4617
0.0199	2.8824	2.8534	-0.02895	10010011	147	1.00449	-1.4766
0.0191	2.8627	2.8343	-0.02845	10010010	146	0.99363	-1.4507

0.0188	2.8431	2.8155	-0.02764	10010001	145	0.97207	-1.4095						
0.0201	2.8235	2.7954	-0.02813	10010000	144	0.99625	-1.4346						
0.0210	2.8039	2.7744	-0.02952	10001111	143	1.05287	-1.5056						
0.0189	2.7843	2.7555	-0.02881	10001110	142	1.03486	-1.4695						
0.0191	2.7647	2.7364	-0.02831	10001101	141	1.02383	-1.4436						
0.0198	2.7451	2.7166	-0.02850	10001100	140	1.03814	-1.4534						
0.0201	2.7255	2.6965	-0.02899	10001011	139	1.06367	-1.4785						
0.0189	2.7059	2.6776	-0.02828	10001010	138	1.04522	-1.4424						
0.0192	2.6863	2.6584	-0.02787	10001001	137	1.03766	-1.4216						
0.0198	2.6667	2.6386	-0.02807	10001000	136	1.05250	-1.4314						
0.0191	2.6471	2.6195	-0.02756	10000111	135	1.04111	-1.4055						
0.0199	2.6275	2.5996	-0.02785	10000110	134	1.06000	-1.4204						
0.0181	2.6078	2.5815	-0.02634	10000101	133	1.01015	-1.3435						
0.0199	2.5882	2.5616	-0.02664	10000100	132	1.02909	-1.3584						
0.0201	2.5686	2.5415	-0.02713	10000011	131	1.05611	-1.3835						
0.0181	2.5490	2.5234	-0.02562	10000010	130	1.00508	-1.3066						
0.0200	2.5294	2.5034	-0.02601	10000001	129	1.02837	-1.3266						
0.0198	2.5098	2.4836	-0.02620	10000000	128	1.04406	-1.3364						
0.0141	2.4902	2.4695	-0.02070	01111111	127	0.83110	-1.0555						
0.0200	2.4706	2.4495	-0.02109	01111110	126	0.85357	-1.0755						
0.0180	2.4510	2.4315	-0.01948	01111101	125	0.79480	-0.9935						
0.0209	2.4314	2.4106	-0.02077	01111100	124	0.85435	-1.0594						
0.0191	2.4118	2.3915	-0.02026	01111011	123	0.84024	-1.0335						
0.0189	2.3922	2.3726	-0.01956	01111010	122	0.81754	-0.9974						
0.0199	2.3725	2.3527	-0.01985	01111001	121	0.83661	-1.0123						
0.0201	2.3529	2.3326	-0.02034	01111000	120	0.86450	-1.0374						
0.0188	2.3333	2.3138	-0.01953	01110111	119	0.83714	-0.9962						
0.0208	2.3137	2.2930	-0.02073	01110110	118	0.89576	-1.057	old data 2.935					
0.0175	2.2941	2.2755	-0.01862	01110101	117	0.81154	-0.9495						
0.0199	2.2745	2.2556	-0.01891	01110100	116	0.83138	-0.9644						
0.0199	2.2549	2.2357	-0.01920	01110011	115	0.85157	-0.9793						
0.0190	2.2353	2.2167	-0.01859	01110010	114	0.83184	-0.9483						
0.0199	2.2157	2.1968	-0.01889	01110001	113	0.85239	-0.9632						
0.0188	2.1961	2.1780	-0.01808	01110000	112	0.82321	-0.922						
0.0209	2.1765	2.1571	-0.01937	01101111	111	0.89000	-0.9879						
0.0192	2.1569	2.1379	-0.01896	01101110	110	0.87918	-0.9671						
0.0198	2.1373	2.1181	-0.01915	01101101	109	0.89624	-0.9769						
0.0210	2.1176	2.0971	-0.02055	01101100	108	0.97028	-1.0479						
0.0191	2.0980	2.0780	-0.02004	01101011	107	0.95514	-1.022						
0.0191	2.0784	2.0589	-0.01953	01101010	106	0.93972	-0.9961						
0.0199	2.0588	2.0390	-0.01982	01101001	105	0.96286	-1.011						
0.0192	2.0392	2.0198	-0.01942	01101000	104	0.95212	-0.9902						
0.0198	2.0196	2.0000	-0.01961	01100111	103	0.97087	-1						
0.0191	2.0000	1.9809	-0.01910	01100110	102	0.95500	-0.9741						
0.0189	1.9804	1.9620	-0.01839	01100101	101	0.92871	-0.938						
0.0201	1.9608	1.9419	-0.01888	01100100	100	0.96310	-0.9631						
0.0199	1.9412	1.9220	-0.01918	01100011	99	0.98788	-0.978						
0.0181	1.9216	1.9039	-0.01767	01100010	98	0.91949	-0.9011						
0.0199	1.9020	1.8840	-0.01796	01100001	97	0.94433	-0.916						
0.0199	1.8824	1.8641	-0.01825	01100000	96	0.96969	-0.9309						
0.0170	1.8627	1.8471	-0.01565	01011111	95	0.83989	-0.7979						
0.0191	1.8431	1.8280	-0.01514	01011110	94	0.82128	-0.772						
0.0200	1.8235	1.8080	-0.01553	01011101	93	0.85161	-0.792						
0.0200	1.8039	1.7880	-0.01592	01011100	92	0.88261	-0.812						
0.0189	1.7843	1.7691	-0.01521	01011011	91	0.85264	-0.7759						
0.0192	1.7647	1.7499	-0.01481	01011010	90	0.83900	-0.7551						

0.0189	1.7451	1.7310	-0.01410	01011001	89	0.80787	-0.719						
0.0210	1.7255	1.7100	-0.01549	01011000	88	0.89773	-0.79						
0.0189	1.7059	1.6911	-0.01478	01010111	87	0.86655	-0.7539						
0.0202	1.6863	1.6709	-0.01537	01010110	86	0.91174	-0.7841						
0.0177	1.6667	1.6532	-0.01347	01010101	85	0.80800	-0.6868						
0.0192	1.6471	1.6340	-0.01306	01010100	84	0.79286	-0.666						
0.0199	1.6275	1.6141	-0.01335	01010011	83	0.82036	-0.6809						
0.0201	1.6078	1.5940	-0.01384	01010010	82	0.86098	-0.706						
0.0168	1.5882	1.5772	-0.01104	01010001	81	0.69481	-0.5628						
0.0201	1.5686	1.5571	-0.01153	01010000	80	0.73487	-0.5879						
0.0220	1.5490	1.5351	-0.01392	01001111	79	0.89861	-0.7099						
0.0210	1.5294	1.5141	-0.01531	01001110	78	1.00115	-0.7809						
0.0181	1.5098	1.4960	-0.01380	01001101	77	0.91429	-0.704						
0.0198	1.4902	1.4762	-0.01400	01001100	76	0.93921	-0.7138						
0.0191	1.4706	1.4571	-0.01349	01001011	75	0.91720	-0.6879						
0.0199	1.4510	1.4372	-0.01378	01001010	74	0.94973	-0.7028						
0.0191	1.4314	1.4181	-0.01327	01001001	73	0.92726	-0.6769						
0.0191	1.4118	1.3990	-0.01276	01001000	72	0.90417	-0.651						
0.0179	1.3922	1.3811	-0.01106	01000111	71	0.79423	-0.5639						
0.0219	1.3725	1.3592	-0.01335	01000110	70	0.97257	-0.6808						
0.0171	1.3529	1.3421	-0.01084	01000101	69	0.80130	-0.5529						
0.0208	1.3333	1.3213	-0.01203	01000100	68	0.90250	-0.6137						
0.0203	1.3137	1.3010	-0.01273	01000011	67	0.96866	-0.649						
0.0181	1.2941	1.2829	-0.01122	01000010	66	0.86682	-0.5721						
0.0188	1.2745	1.2641	-0.01041	01000001	65	0.81677	-0.5309						
0.0202	1.2549	1.2439	-0.01100	01000000	64	0.87672	-0.5611						
0.0219	1.2353	1.2220	-0.01329	00111111	63	1.07619	-0.678						
0.0199	1.2157	1.2021	-0.01359	00111110	62	1.11758	-0.6929						
0.0180	1.1961	1.1841	-0.01198	00111101	61	1.00148	-0.6109						
0.0210	1.1765	1.1631	-0.01337	00111100	60	1.13650	-0.6819				1.17		
0.0181	1.1569	1.1450	-0.01186	00111011	59	1.02542	-0.605						
0.0187	1.1373	1.1263	-0.01095	00111010	58	0.96328	-0.5587						
0.0190	1.1176	1.1073	-0.01035	00111001	57	0.92579	-0.5277						
0.0221	1.0980	1.0852	-0.01284	00111000	56	1.16929	-0.6548				1.103		
0.0180	1.0784	1.0672	-0.01123	00110111	55	1.04145	-0.5728						
0.0198	1.0588	1.0474	-0.01142	00110110	54	1.07889	-0.5826						
0.0181	1.0392	1.0293	-0.00992	00110101	53	0.95415	-0.5057						
0.0189	1.0196	1.0104	-0.00921	00110100	52	0.90308	-0.4696						
0.0222	1.0000	0.9882	-0.01180	00110011	51	1.18000	-0.6018						
0.0168	0.9804	0.9714	-0.00899	00110010	50	0.91720	-0.4586						
0.0191	0.9608	0.9523	-0.00848	00110001	49	0.88306	-0.4327						
0.0220	0.9412	0.9303	-0.01088	00110000	48	1.15563	-0.5547				0.944		
0.0202	0.9216	0.9101	-0.01147	00101111	47	1.24447	-0.5849				0.937		
0.0198	0.9020	0.8903	-0.01166	00101110	46	1.29283	-0.5947						
0.0162	0.8824	0.8741	-0.00824	00101101	45	0.93420	-0.42039	old data0.8571					
0.0228	0.8627	0.8513	-0.01145	00101100	44	1.32659	-0.5837						
0.0189	0.8431	0.8324	-0.01074	00101011	43	1.27349	-0.5476						
0.0191	0.8235	0.8133	-0.01023	00101010	42	1.24214	-0.5217						
0.0181	0.8039	0.7952	-0.00872	00101001	41	1.08488	-0.4448						
0.0209	0.7843	0.7743	-0.01001	00101000	40	1.27675	-0.5107						
0.0199	0.7647	0.7544	-0.01031	00100111	39	1.34769	-0.5256				0.858		
0.0191	0.7451	0.7353	-0.00980	00100110	38	1.31500	-0.4997						
0.0170	0.7255	0.7183	-0.00719	00100101	37	0.99108	-0.3667						
0.0210	0.7059	0.6973	-0.00858	00100100	36	1.21583	-0.4377						
0.0201	0.6863	0.6772	-0.00907	00100011	35	1.32229	-0.4628				0.819		
0.0178	0.6667	0.6594	-0.00727	00100010	34	1.09000	-0.3706						

0.0192	0.6471	0.6402	-0.00686	00100001	33	1.06000	-0.3498				0.799	
0.0199	0.6275	0.6203	-0.00715	00100000	32	1.13969	-0.3647				0.779	
0.0180	0.6078	0.6023	-0.00554	00011111	31	0.91194	-0.2827				0.611	
0.0190	0.5882	0.5833	-0.00494	00011110	30	0.83900	-0.2517				0.591	
0.0170	0.5686	0.5663	-0.00233	00011101	29	0.40931	-0.1187					
0.0222	0.5490	0.54414	-0.00488	00011100	28	0.88879	-0.24886	OLD DATA 0.6464			0.551	
0.0189	0.5294	0.5252	-0.00421	00011011	27	0.79556	-0.2148					
0.0170	0.5098	0.5082	-0.00160	00011010	26	0.31462	-0.0818					
0.0189	0.4902	0.4893	-0.00090	00011001	25	0.18280	-0.0457					
0.0218	0.4706	0.4675	-0.00309	00011000	24	0.65625	-0.1575				0.471	
0.0183	0.4510	0.4492	-0.00178	00010111	23	0.39478	-0.0908					
0.0191	0.4314	0.4301	-0.00127	00010110	22	0.29500	-0.0649					
0.0168	0.4118	0.4133	0.00154	00010101	21	0.37286	0.0783					
0.0181	0.3922	0.3952	0.00304	00010100	20	0.77600	0.1552					
0.0229	0.3725	0.3723	-0.00025	00010011	19	0.06684	-0.0127					
0.0149	0.3529	0.3574	0.00446	00010010	18	1.26333	0.2274					
0.0182	0.3333	0.3392	0.00587	00010001	17	1.76000	0.2992					
0.0191	0.3137	0.3201	0.00637	00010000	16	2.03188	0.3251				0.466	
0.0231	0.2941	0.2970	0.00288	00001111	15	0.98000	0.147				0.31	
0.0188	0.2745	0.2782	0.00369	00001110	14	1.34429	0.1882					
0.0129	0.2549	0.2653	0.01040	00001101	13	4.07923	0.5303					
0.0251	0.2353	0.2402	0.00491	00001100	12	2.08500	0.2502					
0.0180	0.2157	0.2222	0.00651	00001011	11	3.02000	0.3322					
0.0110	0.1961	0.2112	0.01512	00001010	10	7.71200	0.7712					
0.0170	0.1765	0.1942	0.01773	00001001	9	10.04667	0.9042					
0.0191	0.1569	0.1751	0.01824	00001000	8	11.62625	0.9301					
0.0231	0.1373	0.1520	0.01475	00000111	7	10.74286	0.752				0.228	
0.0187	0.1176	0.1333	0.01565	00000110	6	13.30500	0.7983					
0.0081	0.0980	0.1252	0.02716	00000101	5	27.70400	1.3852					
0.0170	0.0784	0.1082	0.02977	00000100	4	37.95500	1.5182					
0.0261	0.0588	0.0821	0.02328	00000011	3	39.57000	1.1871				0.19	
0.0088	0.0392	0.0733	0.03408	00000010	2	86.91500	1.7383	0.067				
0.0167	0.0196	0.0566	0.03699	00000001	1	188.66000	1.8866	0.048			0.17	
0.0566	0.0000	0.0000	0.00000	00000000	0	#DIV/0!	0	0			0	