
Filtered Vivaldi Module

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CONFIDENTIAL

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Abstract

This primer outlines the specifications and features of compact Vivaldi antenna which has an integrated low pass filter which aims to provide a unified hardware solution for all regulatory regions.

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1 General Description

The differential Vivaldi antenna module is designed to offer a straightforward, modular integration for a variety of Ultra-Wideband (UWB) applications. This updated innovative design incorporates a compact low-pass filter within the antenna module itself, allowing users to achieve certification across different regulatory regions with a single hardware.

The RF front-end features a differential low-pass filter that connects directly to the dual Vivaldi antenna, as depicted in Fig. 1. When excited differentially, the system functions as a unified differential antenna, showcasing a dipole-like radiation pattern and linear polarization. This balanced circuit design enables direct connection to the SR1020 radio chip's output pins (RFN-RFP) without the need for a balun. The module is constructed on a 4-layer FR4 PCB, characterized by a relative permittivity of 4.4 and a total thickness of 0.98mm as shown in Fig. 2.

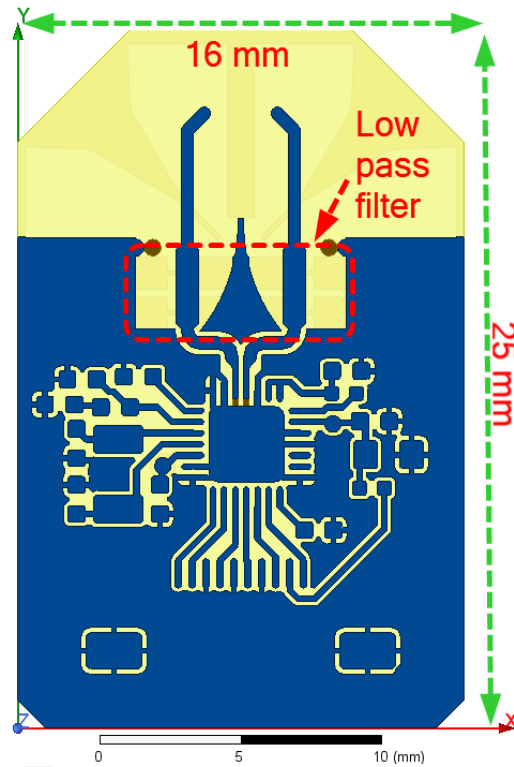


Figure 1: Filtered Vivaldi antenna module.

Material	Layer	Thickness	Dielectric	Gerber	Er
	Top Overlay			GTO	
Surface Material	Top Solder	0.01mm	Solder Resist	GTS	
Copper	Top Layer	0.04mm		GTL	
Prepreg		0.11mm	PP-006		4.4
CF-004	Layer 1	0.04mm		G1	
		0.60mm	FR-4		3.96
CF-004	Layer 2	0.04mm		G2	
Prepreg		0.11mm	PP-006		4.29
Copper	Bottom Layer	0.04mm		GBL	
Surface Material	Bottom Solder	0.01mm	Solder Resist	GBS	
	Bottom Overlay			GBO	
Total thickness: 0.98mm					

Figure 2: Multi layer stackup.

2 Simulated Performance

The simulated differential S_{11} of the RF front-end is presented in Fig. 3. As it can be observed, the -10 dB impedance cutoff is at about 6.1 GHz for this module.

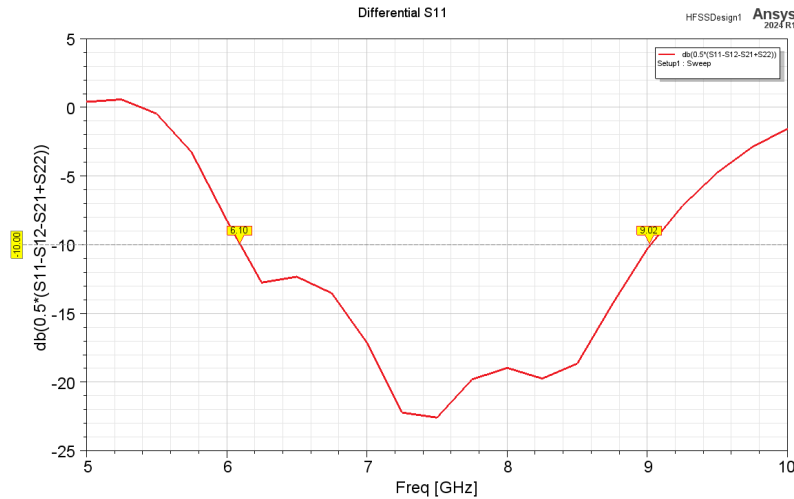


Figure 3: Simulated S_{11} result of the RF front-end.

The efficiency of the antenna's radiation is determined by calculating the ratio of the power radiated by the antenna to the power received at its input, as shown in Fig. 4. This method is particularly precise as it accounts for any impedance mismatches and the insertion losses from the feed lines and filter. The combined radiation efficiency and filter insertion loss stay under 1.5 dB across the relevant frequency range.

Fig. 5 illustrates the peak realized gain of the antenna, reaching a maximum of approximately 1.8 dB at 9 GHz, including losses.

These figures also demonstrate the antenna's filtering capability, effectively rejecting signals below 6 GHz and above 10.5 GHz. This selective filtering ensures meeting certification requirements for out of band emissions.

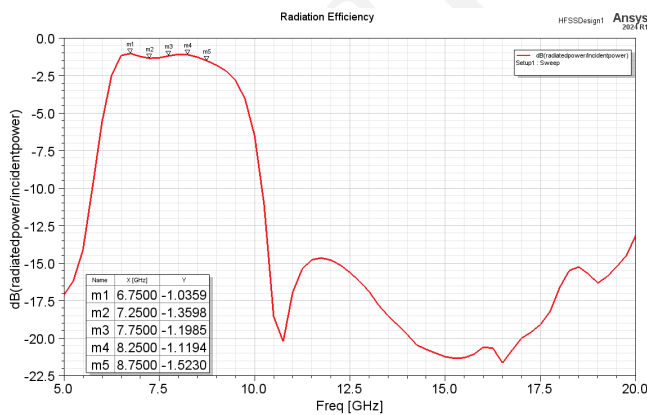


Figure 4: Radiation efficiency of the Vivaldi dongle antenna.

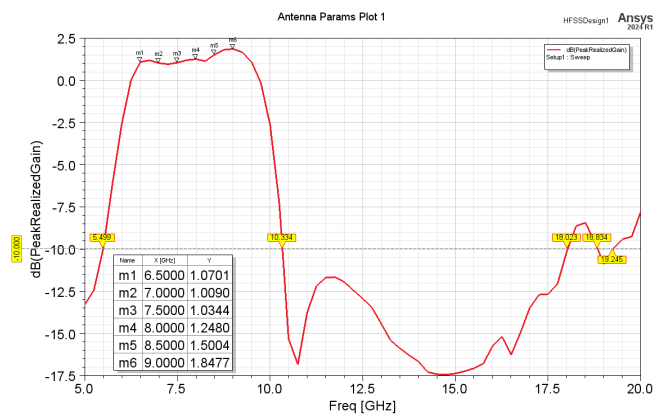


Figure 5: Peak realized gain of the Vivaldi dongle antenna.

3 Simulated Radiation Patterns

The radiation pattern of the module is plotted for the XY, XZ, and YZ cuts from 6.75 to 8.75 GHz in Fig. 6-8. It has to be noted that these patterns have been obtained from free space simulation. The radiation pattern of the antenna will be different in a specific product and will be affected by the elements around it.

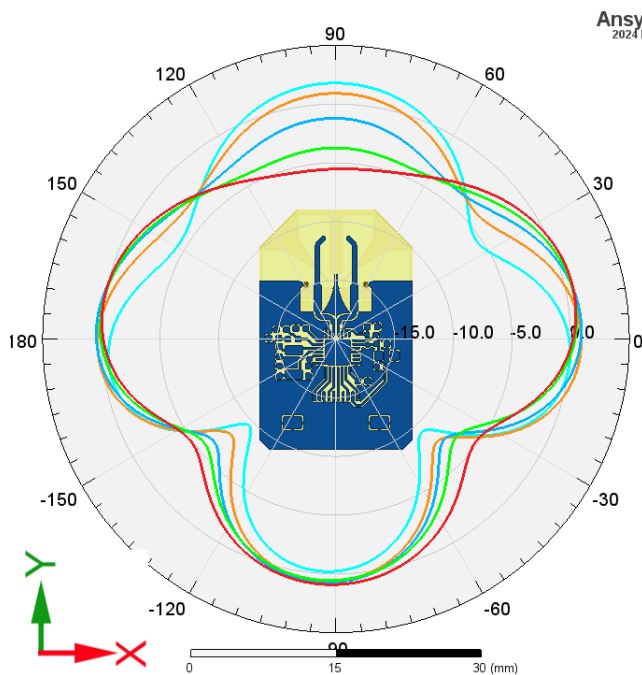


Figure 6: Realized gain (dB) (xy-plane).

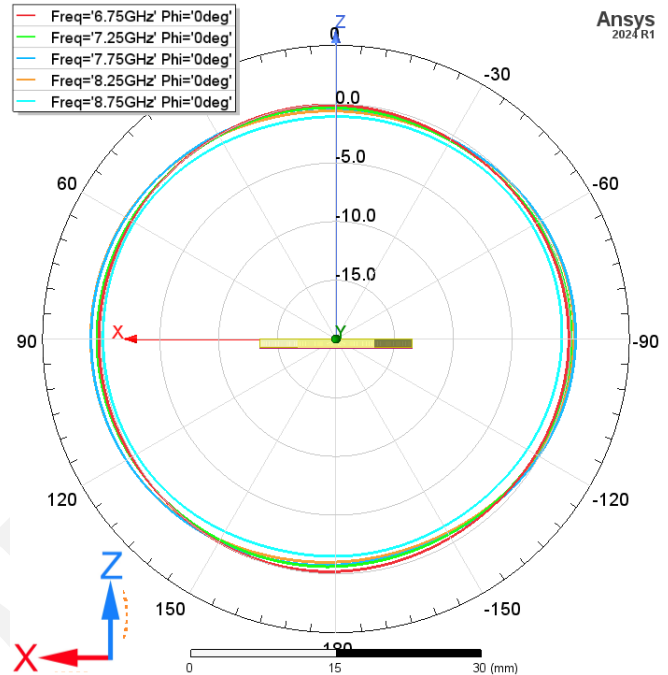


Figure 7: Realized gain (dB) (xz-plane).

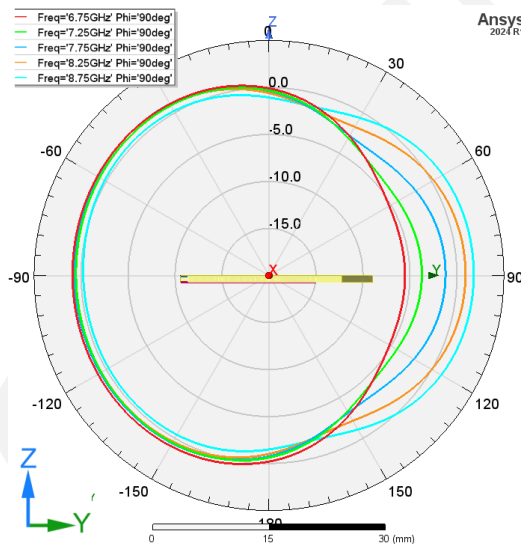


Figure 8: Realized gain (dB) (yz-plane).

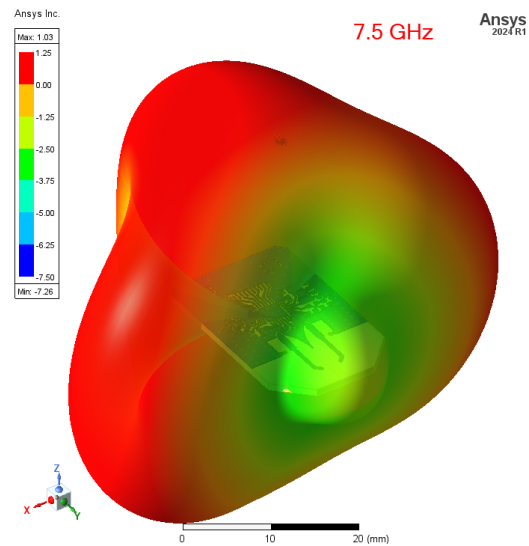


Figure 9: 3D radiation pattern at 7.5 GHz.

Port 1		Port 2	
2700to10600MHz			
Freq [GHz]	B(PeakRealizedGain)	Freq [GHz]	dB(PeakRealizedGain)
2.7	-27.14141089	2.7	-27.11342323
2.701	-27.1298309	2.701	-27.10181544
2.702	-27.11825091	2.702	-27.09020764
2.703	-27.10667091	2.703	-27.07859984
2.704	-27.09509092	2.704	-27.06699204
2.705	-27.08351093	2.705	-27.05538424
2.706	-27.07193094	2.706	-27.04377644
2.707	-27.06035095	2.707	-27.03216864
2.708	-27.04877096	2.708	-27.02056084
2.709	-27.03719096	2.709	-27.00895305
2.71	-27.02561097	2.71	-26.99734525
2.711	-27.01403098	2.711	-26.98573745
2.712	-27.00245099	2.712	-26.97412965
2.713	-26.990871	2.713	-26.96252185
2.714	-26.979291	2.714	-26.95091405
2.715	-26.96771101	2.715	-26.93930625
2.716	-26.95613102	2.716	-26.92769846
2.717	-26.94455103	2.717	-26.91609066
2.718	-26.93297104	2.718	-26.90448286
2.719	-26.92139105	2.719	-26.89287506
2.72	-26.90981105	2.72	-26.88126726
2.721	-26.89823106	2.721	-26.86965946
2.722	-26.88665107	2.722	-26.85805166
2.723	-26.87507108	2.723	-26.84644386
2.724	-26.86349109	2.724	-26.83483607
2.725	-26.8519111	2.725	-26.82322827
2.726	-26.8403311	2.726	-26.81162047
2.727	-26.82875111	2.727	-26.80001267
2.728	-26.81717112	2.728	-26.78840487
2.729	-26.80559113	2.729	-26.77679707
2.73	-26.79401114	2.73	-26.76518927
2.731	-26.78243114	2.731	-26.75358147
2.732	-26.77085115	2.732	-26.74197368
2.733	-26.75927116	2.733	-26.73036588
2.734	-26.74769117	2.734	-26.71875808
2.735	-26.73611118	2.735	-26.70715028
2.736	-26.72453119	2.736	-26.69554248
2.737	-26.71295119	2.737	-26.68393468
2.738	-26.7013712	2.738	-26.67232688
2.739	-26.68979121	2.739	-26.66071908
2.74	-26.67821122	2.74	-26.64911129
2.741	-26.66663123	2.741	-26.63750349
2.742	-26.65505123	2.742	-26.62589569
2.743	-26.64347124	2.743	-26.61428789
2.744	-26.63189125	2.744	-26.60268009
2.745	-26.62031126	2.745	-26.59107229
2.746	-26.60873127	2.746	-26.57946449
2.747	-26.59715128	2.747	-26.5678567
2.748	-26.58557128	2.748	-26.5562489
2.749	-26.57399129	2.749	-26.5446411
2.75	-26.5624113	2.75	-26.5330333
2.751	-26.55083131	2.751	-26.5214255

2.752	-26.53925132	2.752	-26.5098177
2.753	-26.52767132	2.753	-26.4982099
2.754	-26.51609133	2.754	-26.4866021
2.755	-26.50451134	2.755	-26.47499431
2.756	-26.49293135	2.756	-26.46338651
2.757	-26.48135136	2.757	-26.45177871
2.758	-26.46977137	2.758	-26.44017091
2.759	-26.45819137	2.759	-26.42856311
2.76	-26.44661138	2.76	-26.41695531
2.761	-26.43503139	2.761	-26.40534751
2.762	-26.4234514	2.762	-26.39373971
2.763	-26.41187141	2.763	-26.38213192
2.764	-26.40029142	2.764	-26.37052412
2.765	-26.38871142	2.765	-26.35891632
2.766	-26.37713143	2.766	-26.34730852
2.767	-26.36555144	2.767	-26.33570072
2.768	-26.35397145	2.768	-26.32409292
2.769	-26.34239146	2.769	-26.31248512
2.77	-26.33081146	2.77	-26.30087732
2.771	-26.31923147	2.771	-26.28926953
2.772	-26.30765148	2.772	-26.27766173
2.773	-26.29607149	2.773	-26.26605393
2.774	-26.2844915	2.774	-26.25444613
2.775	-26.27291151	2.775	-26.24283833
2.776	-26.26133151	2.776	-26.23123053
2.777	-26.24975152	2.777	-26.21962273
2.778	-26.23817153	2.778	-26.20801493
2.779	-26.22659154	2.779	-26.19640714
2.78	-26.21501155	2.78	-26.18479934
2.781	-26.20343155	2.781	-26.17319154
2.782	-26.19185156	2.782	-26.16158374
2.783	-26.18027157	2.783	-26.14997594
2.784	-26.16869158	2.784	-26.13836814
2.785	-26.15711159	2.785	-26.12676034
2.786	-26.1455316	2.786	-26.11515255
2.787	-26.1339516	2.787	-26.10354475
2.788	-26.12237161	2.788	-26.09193695
2.789	-26.11079162	2.789	-26.08032915
2.79	-26.09921163	2.79	-26.06872135
2.791	-26.08763164	2.791	-26.05711355
2.792	-26.07605164	2.792	-26.04550575
2.793	-26.06447165	2.793	-26.03389795
2.794	-26.05289166	2.794	-26.02229016
2.795	-26.04131167	2.795	-26.01068236
2.796	-26.02973168	2.796	-25.99907456
2.797	-26.01815169	2.797	-25.98746676
2.798	-26.00657169	2.798	-25.97585896
2.799	-25.9949917	2.799	-25.96425116
2.8	-25.98341171	2.8	-25.95264336
2.801	-25.97211962	2.801	-25.94133663
2.802	-25.96082752	2.802	-25.9300299
2.803	-25.94953543	2.803	-25.91872316
2.804	-25.93824334	2.804	-25.90741643
2.805	-25.92695125	2.805	-25.89610969
2.806	-25.91565915	2.806	-25.88480296

2.807	-25.90436706	2.807	-25.87349623
2.808	-25.89307497	2.808	-25.86218949
2.809	-25.88178287	2.809	-25.85088276
2.81	-25.87049078	2.81	-25.83957602
2.811	-25.85919869	2.811	-25.82826929
2.812	-25.8479066	2.812	-25.81696256
2.813	-25.8366145	2.813	-25.80565582
2.814	-25.82532241	2.814	-25.79434909
2.815	-25.81403032	2.815	-25.78304235
2.816	-25.80273822	2.816	-25.77173562
2.817	-25.79144613	2.817	-25.76042889
2.818	-25.78015404	2.818	-25.74912215
2.819	-25.76886194	2.819	-25.73781542
2.82	-25.75756985	2.82	-25.72650868
2.821	-25.74627776	2.821	-25.71520195
2.822	-25.73498567	2.822	-25.70389522
2.823	-25.72369357	2.823	-25.69258848
2.824	-25.71240148	2.824	-25.68128175
2.825	-25.70110939	2.825	-25.66997501
2.826	-25.68981729	2.826	-25.65866828
2.827	-25.6785252	2.827	-25.64736155
2.828	-25.66723311	2.828	-25.63605481
2.829	-25.65594102	2.829	-25.62474808
2.83	-25.64464892	2.83	-25.61344135
2.831	-25.63335683	2.831	-25.60213461
2.832	-25.62206474	2.832	-25.59082788
2.833	-25.61077264	2.833	-25.57952114
2.834	-25.59948055	2.834	-25.56821441
2.835	-25.58818846	2.835	-25.55690768
2.836	-25.57689637	2.836	-25.54560094
2.837	-25.56560427	2.837	-25.53429421
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2.844	-25.48655962	2.844	-25.45514707
2.845	-25.47526753	2.845	-25.44384034
2.846	-25.46397544	2.846	-25.4325336
2.847	-25.45268334	2.847	-25.42122687
2.848	-25.44139125	2.848	-25.40992013
2.849	-25.43009916	2.849	-25.3986134
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2.869	-25.2042573	2.869	-25.17247872
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2.903	-24.8210776	2.903	-24.78878981
2.904	-24.81003599	2.904	-24.77772975
2.905	-24.79899438	2.905	-24.7666697
2.906	-24.78795278	2.906	-24.75560965
2.907	-24.77691117	2.907	-24.74454959
2.908	-24.76586956	2.908	-24.73348954
2.909	-24.75482796	2.909	-24.72242948
2.91	-24.74378635	2.91	-24.71136943
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2.913	-24.71066153	2.913	-24.67818927
2.914	-24.69961992	2.914	-24.66712921
2.915	-24.68857832	2.915	-24.65606916
2.916	-24.67753671	2.916	-24.64500911

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2.918	-24.6554535	2.918	-24.622889
2.919	-24.64441189	2.919	-24.61182894
2.92	-24.63337028	2.92	-24.60076889
2.921	-24.62232868	2.921	-24.58970884
2.922	-24.61128707	2.922	-24.57864878
2.923	-24.60024546	2.923	-24.56758873
2.924	-24.58920386	2.924	-24.55652867
2.925	-24.57816225	2.925	-24.54546862
2.926	-24.56712064	2.926	-24.53440857
2.927	-24.55607904	2.927	-24.52334851
2.928	-24.54503743	2.928	-24.51228846
2.929	-24.53399582	2.929	-24.5012284
2.93	-24.52295422	2.93	-24.49016835
2.931	-24.51191261	2.931	-24.4791083
2.932	-24.500871	2.932	-24.46804824
2.933	-24.4898294	2.933	-24.45698819
2.934	-24.47878779	2.934	-24.44592813
2.935	-24.46774618	2.935	-24.43486808
2.936	-24.45670458	2.936	-24.42380802
2.937	-24.44566297	2.937	-24.41274797
2.938	-24.43462136	2.938	-24.40168792
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2.94	-24.41253815	2.94	-24.37956781
2.941	-24.40149654	2.941	-24.36850775
2.942	-24.39045494	2.942	-24.3574477
2.943	-24.37941333	2.943	-24.34638765
2.944	-24.36837172	2.944	-24.33532759
2.945	-24.35733012	2.945	-24.32426754
2.946	-24.34628851	2.946	-24.31320748
2.947	-24.3352469	2.947	-24.30214743
2.948	-24.3242053	2.948	-24.29108738
2.949	-24.31316369	2.949	-24.28002732
2.95	-24.30212208	2.95	-24.26896727
2.951	-24.29108048	2.951	-24.25790721
2.952	-24.28003887	2.952	-24.24684716
2.953	-24.26899726	2.953	-24.23578711
2.954	-24.25795566	2.954	-24.22472705
2.955	-24.24691405	2.955	-24.213667
2.956	-24.23587244	2.956	-24.20260694
2.957	-24.22483084	2.957	-24.19154689
2.958	-24.21378923	2.958	-24.18048684
2.959	-24.20274762	2.959	-24.16942678
2.96	-24.19170602	2.96	-24.15836673
2.961	-24.18066441	2.961	-24.14730667
2.962	-24.1696228	2.962	-24.13624662
2.963	-24.1585812	2.963	-24.12518657
2.964	-24.14753959	2.964	-24.11412651
2.965	-24.13649798	2.965	-24.10306646
2.966	-24.12545638	2.966	-24.0920064
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5.637	-3.512715174	5.637	-3.554725784
5.638	-3.509618009	5.638	-3.551624354
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5.644	-3.491035022	5.644	-3.533015777
5.645	-3.487937857	5.645	-3.529914347
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5.653	-3.46316054	5.653	-3.505102911
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5.655	-3.456966211	5.655	-3.498900052
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5.685	-3.364051273	5.685	-3.405857164
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6.284	-0.517715094	6.284	-0.521837956
6.285	-0.513848843	6.285	-0.51789661
6.286	-0.509982592	6.286	-0.513955264
6.287	-0.506116341	6.287	-0.510013918
6.288	-0.50225009	6.288	-0.506072572
6.289	-0.498383839	6.289	-0.502131226
6.29	-0.494517589	6.29	-0.49818988
6.291	-0.490651338	6.291	-0.494248534
6.292	-0.486785087	6.292	-0.490307188
6.293	-0.482918836	6.293	-0.486365843
6.294	-0.479052585	6.294	-0.482424497
6.295	-0.475186334	6.295	-0.478483151
6.296	-0.471320083	6.296	-0.474541805
6.297	-0.467453833	6.297	-0.470600459
6.298	-0.463587582	6.298	-0.466659113
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6.3	-0.45585508	6.3	-0.458776421
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6.303	-0.446701956	6.303	-0.4494641
6.304	-0.443650915	6.304	-0.446359993
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6.306	-0.437548832	6.306	-0.440151778
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6.625	0.303942795	6.625	0.318724893
6.626	0.305513408	6.626	0.320343222
6.627	0.307084022	6.627	0.321961552
6.628	0.308654635	6.628	0.323579881
6.629	0.310225249	6.629	0.325198211
6.63	0.311795862	6.63	0.32681654
6.631	0.313366476	6.631	0.32843487
6.632	0.314937089	6.632	0.330053199
6.633	0.316507703	6.633	0.331671529
6.634	0.318078316	6.634	0.333289858
6.635	0.319648929	6.635	0.334908188
6.636	0.321219543	6.636	0.336526517
6.637	0.322790156	6.637	0.338144847
6.638	0.32436077	6.638	0.339763176
6.639	0.325931383	6.639	0.341381506
6.64	0.327501997	6.64	0.342999835
6.641	0.32907261	6.641	0.344618165
6.642	0.330643224	6.642	0.346236494
6.643	0.332213837	6.643	0.347854824
6.644	0.333784451	6.644	0.349473153
6.645	0.335355064	6.645	0.351091483
6.646	0.336925678	6.646	0.352709812
6.647	0.338496291	6.647	0.354328142
6.648	0.340066905	6.648	0.355946471
6.649	0.341637518	6.649	0.357564801
6.65	0.343208132	6.65	0.35918313
6.651	0.344778745	6.651	0.36080146
6.652	0.346349358	6.652	0.362419789
6.653	0.347919972	6.653	0.364038119
6.654	0.349490585	6.654	0.365656448
6.655	0.351061199	6.655	0.367274778
6.656	0.352631812	6.656	0.368893107

6.657	0.354202426	6.657	0.370511437
6.658	0.355773039	6.658	0.372129766
6.659	0.357343653	6.659	0.373748096
6.66	0.358914266	6.66	0.375366425
6.661	0.36048488	6.661	0.376984755
6.662	0.362055493	6.662	0.378603084
6.663	0.363626107	6.663	0.380221414
6.664	0.36519672	6.664	0.381839743
6.665	0.366767334	6.665	0.383458073
6.666	0.368337947	6.666	0.385076402
6.667	0.36990856	6.667	0.386694732
6.668	0.371479174	6.668	0.388313061
6.669	0.373049787	6.669	0.389931391
6.67	0.374620401	6.67	0.39154972
6.671	0.376191014	6.671	0.39316805
6.672	0.377761628	6.672	0.394786379
6.673	0.379332241	6.673	0.396404709
6.674	0.380902855	6.674	0.398023038
6.675	0.382473468	6.675	0.399641368
6.676	0.384044082	6.676	0.401259697
6.677	0.385614695	6.677	0.402878027
6.678	0.387185309	6.678	0.404496356
6.679	0.388755922	6.679	0.406114686
6.68	0.390326536	6.68	0.407733015
6.681	0.391897149	6.681	0.409351345
6.682	0.393467763	6.682	0.410969675
6.683	0.395038376	6.683	0.412588004
6.684	0.396608989	6.684	0.414206334
6.685	0.398179603	6.685	0.415824663
6.686	0.399750216	6.686	0.417442993
6.687	0.40132083	6.687	0.419061322
6.688	0.402891443	6.688	0.420679652
6.689	0.404462057	6.689	0.422297981
6.69	0.40603267	6.69	0.423916311
6.691	0.407603284	6.691	0.42553464
6.692	0.409173897	6.692	0.42715297
6.693	0.410744511	6.693	0.428771299
6.694	0.412315124	6.694	0.430389629
6.695	0.413885738	6.695	0.432007958
6.696	0.415456351	6.696	0.433626288
6.697	0.417026965	6.697	0.435244617
6.698	0.418597578	6.698	0.436862947
6.699	0.420168192	6.699	0.438481276
6.7	0.421738805	6.7	0.440099606
6.701	0.42325313	6.701	0.441669339
6.702	0.424767455	6.702	0.443239071
6.703	0.426281781	6.703	0.444808804
6.704	0.427796106	6.704	0.446378537
6.705	0.429310431	6.705	0.44794827
6.706	0.430824756	6.706	0.449518003
6.707	0.432339082	6.707	0.451087736
6.708	0.433853407	6.708	0.452657469
6.709	0.435367732	6.709	0.454227202
6.71	0.436882057	6.71	0.455796935
6.711	0.438396383	6.711	0.457366667

6.712	0.439910708	6.712	0.4589364
6.713	0.441425033	6.713	0.460506133
6.714	0.442939358	6.714	0.462075866
6.715	0.444453684	6.715	0.463645599
6.716	0.445968009	6.716	0.465215332
6.717	0.447482334	6.717	0.466785065
6.718	0.448996659	6.718	0.468354798
6.719	0.450510985	6.719	0.469924531
6.72	0.45202531	6.72	0.471494264
6.721	0.453539635	6.721	0.473063996
6.722	0.45505396	6.722	0.474633729
6.723	0.456568285	6.723	0.476203462
6.724	0.458082611	6.724	0.477773195
6.725	0.459596936	6.725	0.479342928
6.726	0.461111261	6.726	0.480912661
6.727	0.462625586	6.727	0.482482394
6.728	0.464139912	6.728	0.484052127
6.729	0.465654237	6.729	0.48562186
6.73	0.467168562	6.73	0.487191593
6.731	0.468682887	6.731	0.488761325
6.732	0.470197213	6.732	0.490331058
6.733	0.471711538	6.733	0.491900791
6.734	0.473225863	6.734	0.493470524
6.735	0.474740188	6.735	0.495040257
6.736	0.476254514	6.736	0.49660999
6.737	0.477768839	6.737	0.498179723
6.738	0.479283164	6.738	0.499749456
6.739	0.480797489	6.739	0.501319189
6.74	0.482311815	6.74	0.502888921
6.741	0.48382614	6.741	0.504458654
6.742	0.485340465	6.742	0.506028387
6.743	0.48685479	6.743	0.50759812
6.744	0.488369116	6.744	0.509167853
6.745	0.489883441	6.745	0.510737586
6.746	0.491397766	6.746	0.512307319
6.747	0.492912091	6.747	0.513877052
6.748	0.494426416	6.748	0.515446785
6.749	0.495940742	6.749	0.517016518
6.75	0.497455067	6.75	0.51858625
6.751	0.498969392	6.751	0.520155983
6.752	0.500483717	6.752	0.521725716
6.753	0.501998043	6.753	0.523295449
6.754	0.503512368	6.754	0.524865182
6.755	0.505026693	6.755	0.526434915
6.756	0.506541018	6.756	0.528004648
6.757	0.508055344	6.757	0.529574381
6.758	0.509569669	6.758	0.531144114
6.759	0.511083994	6.759	0.532713846
6.76	0.512598319	6.76	0.534283579
6.761	0.514112645	6.761	0.535853312
6.762	0.51562697	6.762	0.537423045
6.763	0.517141295	6.763	0.538992778
6.764	0.51865562	6.764	0.540562511
6.765	0.520169946	6.765	0.542132244
6.766	0.521684271	6.766	0.543701977

6.767	0.523198596	6.767	0.54527171
6.768	0.524712921	6.768	0.546841443
6.769	0.526227247	6.769	0.548411175
6.77	0.527741572	6.77	0.549980908
6.771	0.529255897	6.771	0.551550641
6.772	0.530770222	6.772	0.553120374
6.773	0.532284547	6.773	0.554690107
6.774	0.533798873	6.774	0.55625984
6.775	0.535313198	6.775	0.557829573
6.776	0.536827523	6.776	0.559399306
6.777	0.538341848	6.777	0.560969039
6.778	0.539856174	6.778	0.562538772
6.779	0.541370499	6.779	0.564108504
6.78	0.542884824	6.78	0.565678237
6.781	0.544399149	6.781	0.56724797
6.782	0.545913475	6.782	0.568817703
6.783	0.5474278	6.783	0.570387436
6.784	0.548942125	6.784	0.571957169
6.785	0.55045645	6.785	0.573526902
6.786	0.551970776	6.786	0.575096635
6.787	0.553485101	6.787	0.576666368
6.788	0.554999426	6.788	0.5782361
6.789	0.556513751	6.789	0.579805833
6.79	0.558028077	6.79	0.581375566
6.791	0.559542402	6.791	0.582945299
6.792	0.561056727	6.792	0.584515032
6.793	0.562571052	6.793	0.586084765
6.794	0.564085378	6.794	0.587654498
6.795	0.565599703	6.795	0.589224231
6.796	0.567114028	6.796	0.590793964
6.797	0.568628353	6.797	0.592363697
6.798	0.570142678	6.798	0.593933429
6.799	0.571657004	6.799	0.595503162
6.8	0.573171329	6.8	0.597072895
6.801	0.574777583	6.801	0.598734948
6.802	0.576383838	6.802	0.600397001
6.803	0.577990092	6.803	0.602059054
6.804	0.579596346	6.804	0.603721106
6.805	0.5812026	6.805	0.605383159
6.806	0.582808855	6.806	0.607045212
6.807	0.584415109	6.807	0.608707265
6.808	0.586021363	6.808	0.610369317
6.809	0.587627618	6.809	0.61203137
6.81	0.589233872	6.81	0.613693423
6.811	0.590840126	6.811	0.615355476
6.812	0.592446381	6.812	0.617017529
6.813	0.594052635	6.813	0.618679581
6.814	0.595658889	6.814	0.620341634
6.815	0.597265144	6.815	0.622003687
6.816	0.598871398	6.816	0.62366574
6.817	0.600477652	6.817	0.625327793
6.818	0.602083906	6.818	0.626989845
6.819	0.603690161	6.819	0.628651898
6.82	0.605296415	6.82	0.630313951
6.821	0.606902669	6.821	0.631976004

6.822	0.608508924	6.822	0.633638056
6.823	0.610115178	6.823	0.635300109
6.824	0.611721432	6.824	0.636962162
6.825	0.613327687	6.825	0.638624215
6.826	0.614933941	6.826	0.640286268
6.827	0.616540195	6.827	0.64194832
6.828	0.618146449	6.828	0.643610373
6.829	0.619752704	6.829	0.645272426
6.83	0.621358958	6.83	0.646934479
6.831	0.622965212	6.831	0.648596531
6.832	0.624571467	6.832	0.650258584
6.833	0.626177721	6.833	0.651920637
6.834	0.627783975	6.834	0.65358269
6.835	0.62939023	6.835	0.655244743
6.836	0.630996484	6.836	0.656906795
6.837	0.632602738	6.837	0.658568848
6.838	0.634208992	6.838	0.660230901
6.839	0.635815247	6.839	0.661892954
6.84	0.637421501	6.84	0.663555006
6.841	0.639027755	6.841	0.665217059
6.842	0.64063401	6.842	0.666879112
6.843	0.642240264	6.843	0.668541165
6.844	0.643846518	6.844	0.670203218
6.845	0.645452773	6.845	0.67186527
6.846	0.647059027	6.846	0.673527323
6.847	0.648665281	6.847	0.675189376
6.848	0.650271536	6.848	0.676851429
6.849	0.65187779	6.849	0.678513482
6.85	0.653484044	6.85	0.680175534
6.851	0.655090298	6.851	0.681837587
6.852	0.656696553	6.852	0.68349964
6.853	0.658302807	6.853	0.685161693
6.854	0.659909061	6.854	0.686823745
6.855	0.661515316	6.855	0.688485798
6.856	0.66312157	6.856	0.690147851
6.857	0.664727824	6.857	0.691809904
6.858	0.666334079	6.858	0.693471957
6.859	0.667940333	6.859	0.695134009
6.86	0.669546587	6.86	0.696796062
6.861	0.671152841	6.861	0.698458115
6.862	0.672759096	6.862	0.700120168
6.863	0.67436535	6.863	0.70178222
6.864	0.675971604	6.864	0.703444273
6.865	0.677577859	6.865	0.705106326
6.866	0.679184113	6.866	0.706768379
6.867	0.680790367	6.867	0.708430432
6.868	0.682396622	6.868	0.710092484
6.869	0.684002876	6.869	0.711754537
6.87	0.68560913	6.87	0.71341659
6.871	0.687215385	6.871	0.715078643
6.872	0.688821639	6.872	0.716740695
6.873	0.690427893	6.873	0.718402748
6.874	0.692034147	6.874	0.720064801
6.875	0.693640402	6.875	0.721726854
6.876	0.695246656	6.876	0.723388907

6.877	0.69685291	6.877	0.725050959
6.878	0.698459165	6.878	0.726713012
6.879	0.700065419	6.879	0.728375065
6.88	0.701671673	6.88	0.730037118
6.881	0.703277928	6.881	0.731699171
6.882	0.704884182	6.882	0.733361223
6.883	0.706490436	6.883	0.735023276
6.884	0.70809669	6.884	0.736685329
6.885	0.709702945	6.885	0.738347382
6.886	0.711309199	6.886	0.740009434
6.887	0.712915453	6.887	0.741671487
6.888	0.714521708	6.888	0.743333354
6.889	0.716127962	6.889	0.744995593
6.89	0.717734216	6.89	0.746657646
6.891	0.719340471	6.891	0.748319698
6.892	0.720946725	6.892	0.749981751
6.893	0.722552979	6.893	0.751643804
6.894	0.724159234	6.894	0.753305857
6.895	0.725765488	6.895	0.754967909
6.896	0.727371742	6.896	0.756629962
6.897	0.728977996	6.897	0.758292015
6.898	0.730584251	6.898	0.759954068
6.899	0.732190505	6.899	0.761616121
6.9	0.733796759	6.9	0.763278173
6.901	0.735578075	6.901	0.765121415
6.902	0.73735939	6.902	0.766964656
6.903	0.739140705	6.903	0.768807898
6.904	0.74092202	6.904	0.770651139
6.905	0.742703336	6.905	0.772494381
6.906	0.744484651	6.906	0.774337622
6.907	0.746265966	6.907	0.776180863
6.908	0.748047282	6.908	0.778024105
6.909	0.749828597	6.909	0.779867346
6.91	0.751609912	6.91	0.781710588
6.911	0.753391228	6.911	0.783553829
6.912	0.755172543	6.912	0.785397071
6.913	0.756953858	6.913	0.787240312
6.914	0.758735173	6.914	0.789083553
6.915	0.760516489	6.915	0.790926795
6.916	0.762297804	6.916	0.792770036
6.917	0.764079119	6.917	0.794613278
6.918	0.765860435	6.918	0.796456519
6.919	0.76764175	6.919	0.798299761
6.92	0.769423065	6.92	0.800143002
6.921	0.77120438	6.921	0.801986244
6.922	0.772985696	6.922	0.803829485
6.923	0.774767011	6.923	0.805672726
6.924	0.776548326	6.924	0.807515968
6.925	0.778329642	6.925	0.809359209
6.926	0.780110957	6.926	0.811202451
6.927	0.781892272	6.927	0.813045692
6.928	0.783673587	6.928	0.814888934
6.929	0.785454903	6.929	0.816732175
6.93	0.787236218	6.93	0.818575416
6.931	0.789017533	6.931	0.820418658

6.932	0.790798849	6.932	0.822261899
6.933	0.792580164	6.933	0.824105141
6.934	0.794361479	6.934	0.825948382
6.935	0.796142794	6.935	0.827791624
6.936	0.79792411	6.936	0.829634865
6.937	0.799705425	6.937	0.831478107
6.938	0.80148674	6.938	0.833321348
6.939	0.803268056	6.939	0.835164589
6.94	0.805049371	6.94	0.837007831
6.941	0.806830686	6.941	0.838851072
6.942	0.808612001	6.942	0.840694314
6.943	0.810393317	6.943	0.842537555
6.944	0.812174632	6.944	0.844380797
6.945	0.813955947	6.945	0.846224038
6.946	0.815737263	6.946	0.848067279
6.947	0.817518578	6.947	0.849910521
6.948	0.819299893	6.948	0.851753762
6.949	0.821081208	6.949	0.853597004
6.95	0.822862524	6.95	0.855440245
6.951	0.824643839	6.951	0.857283487
6.952	0.826425154	6.952	0.859126728
6.953	0.82820647	6.953	0.86096997
6.954	0.829987785	6.954	0.862813211
6.955	0.8317691	6.955	0.864656452
6.956	0.833550416	6.956	0.866499694
6.957	0.835331731	6.957	0.868342935
6.958	0.837113046	6.958	0.870186177
6.959	0.838894361	6.959	0.872029418
6.96	0.840675677	6.96	0.87387266
6.961	0.842456992	6.961	0.875715901
6.962	0.844238307	6.962	0.877559142
6.963	0.846019623	6.963	0.879402384
6.964	0.847800938	6.964	0.881245625
6.965	0.849582253	6.965	0.883088867
6.966	0.851363568	6.966	0.884932108
6.967	0.853144884	6.967	0.88677535
6.968	0.854926199	6.968	0.888618591
6.969	0.856707514	6.969	0.890461833
6.97	0.85848883	6.97	0.892305074
6.971	0.860270145	6.971	0.894148315
6.972	0.86205146	6.972	0.895991557
6.973	0.863832775	6.973	0.897834798
6.974	0.865614091	6.974	0.89967804
6.975	0.867395406	6.975	0.901521281
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6.977	0.870958037	6.977	0.905207764
6.978	0.872739352	6.978	0.907051005
6.979	0.874520667	6.979	0.908894247
6.98	0.876301982	6.98	0.910737488
6.981	0.878083298	6.981	0.91258073
6.982	0.879864613	6.982	0.914423971
6.983	0.881645928	6.983	0.916267213
6.984	0.883427244	6.984	0.918110454
6.985	0.885208559	6.985	0.919953696
6.986	0.886989874	6.986	0.921796937

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6.989	0.89233382	6.989	0.927326661
6.99	0.894115135	6.99	0.929169903
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6.992	0.897677766	6.992	0.932856386
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6.997	0.906584342	6.997	0.942072593
6.998	0.908365658	6.998	0.943915834
6.999	0.910146973	6.999	0.945759076
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7.691	2.18064173	7.691	2.248098204
7.692	2.181614289	7.692	2.249080422
7.693	2.182586848	7.693	2.25006264
7.694	2.183559406	7.694	2.251044858
7.695	2.184531965	7.695	2.252027076
7.696	2.185504524	7.696	2.253009294
7.697	2.186477082	7.697	2.253991512
7.698	2.187449641	7.698	2.25497373
7.699	2.1884222	7.699	2.255955948
7.7	2.189394758	7.7	2.256938166
7.701	2.189771618	7.701	2.257306633

7.702	2.190148477	7.702	2.257675101
7.703	2.190525336	7.703	2.258043568
7.704	2.190902195	7.704	2.258412035
7.705	2.191279055	7.705	2.258780503
7.706	2.191655914	7.706	2.25914897
7.707	2.192032773	7.707	2.259517437
7.708	2.192409633	7.708	2.259885905
7.709	2.192786492	7.709	2.260254372
7.71	2.193163351	7.71	2.260622839
7.711	2.19354021	7.711	2.260991307
7.712	2.19391707	7.712	2.261359774
7.713	2.194293929	7.713	2.261728241
7.714	2.194670788	7.714	2.262096709
7.715	2.195047648	7.715	2.262465176
7.716	2.195424507	7.716	2.262833644
7.717	2.195801366	7.717	2.263202111
7.718	2.196178225	7.718	2.263570578
7.719	2.196555085	7.719	2.263939046
7.72	2.196931944	7.72	2.264307513
7.721	2.197308803	7.721	2.26467598
7.722	2.197685663	7.722	2.265044448
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7.725	2.19881624	7.725	2.26614985
7.726	2.1991931	7.726	2.266518317
7.727	2.199569959	7.727	2.266886784
7.728	2.199946818	7.728	2.267255252
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7.733	2.201831115	7.733	2.269097588
7.734	2.202207974	7.734	2.269466056
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7.736	2.202961692	7.736	2.270202991
7.737	2.203338552	7.737	2.270571458
7.738	2.203715411	7.738	2.270939925
7.739	2.20409227	7.739	2.271308393
7.74	2.20446913	7.74	2.27167686
7.741	2.204845989	7.741	2.272045327
7.742	2.205222848	7.742	2.272413795
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7.745	2.206353426	7.745	2.273519197
7.746	2.206730285	7.746	2.273887664
7.747	2.207107145	7.747	2.274256131
7.748	2.207484004	7.748	2.274624599
7.749	2.207860863	7.749	2.274993066
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7.887	2.209677416	7.887	2.275061069
7.888	2.209477379	7.888	2.274845852
7.889	2.209277341	7.889	2.274630636
7.89	2.209077303	7.89	2.274415419
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7.892	2.208677228	7.892	2.273984986
7.893	2.208477191	7.893	2.27376977
7.894	2.208277153	7.894	2.273554553
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8.402	1.615819422	8.402	1.667378507
8.403	1.614407092	8.403	1.665944918
8.404	1.612994761	8.404	1.664511328
8.405	1.61158243	8.405	1.663077738
8.406	1.610170099	8.406	1.661644149
8.407	1.608757768	8.407	1.660210559
8.408	1.607345437	8.408	1.658776969
8.409	1.605933106	8.409	1.65734338
8.41	1.604520776	8.41	1.65590979
8.411	1.603108445	8.411	1.6544762
8.412	1.601696114	8.412	1.65304261
8.413	1.600283783	8.413	1.651609021
8.414	1.598871452	8.414	1.650175431
8.415	1.597459121	8.415	1.648741841
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8.419	1.591809798	8.419	1.643007483
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8.425	1.583335813	8.425	1.634405945
8.426	1.581923482	8.426	1.632972355
8.427	1.580511151	8.427	1.631538765
8.428	1.579098821	8.428	1.630105175
8.429	1.57768649	8.429	1.628671586
8.43	1.576274159	8.43	1.627237996
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8.758	1.144682508	8.758	1.192879145
8.759	1.143477439	8.759	1.191678571
8.76	1.14227237	8.76	1.190477997
8.761	1.141067301	8.761	1.189277423
8.762	1.139862232	8.762	1.188076849
8.763	1.138657163	8.763	1.186876275
8.764	1.137452094	8.764	1.185675701
8.765	1.136247025	8.765	1.184475127
8.766	1.135041956	8.766	1.183274553
8.767	1.133836887	8.767	1.182073979
8.768	1.132631818	8.768	1.180873405
8.769	1.131426749	8.769	1.179672831
8.77	1.13022168	8.77	1.178472257
8.771	1.129016611	8.771	1.177271683
8.772	1.127811542	8.772	1.176071109
8.773	1.126606473	8.773	1.174870535
8.774	1.125401404	8.774	1.173669962
8.775	1.124196335	8.775	1.172469388
8.776	1.122991266	8.776	1.171268814
8.777	1.121786197	8.777	1.17006824
8.778	1.120581127	8.778	1.168867666
8.779	1.119376058	8.779	1.167667092
8.78	1.118170989	8.78	1.166466518
8.781	1.11696592	8.781	1.165265944
8.782	1.115760851	8.782	1.16406537
8.783	1.114555782	8.783	1.162864796
8.784	1.113350713	8.784	1.161664222
8.785	1.112145644	8.785	1.160463648
8.786	1.110940575	8.786	1.159263074
8.787	1.109735506	8.787	1.1580625
8.788	1.108530437	8.788	1.156861926
8.789	1.107325368	8.789	1.155661352
8.79	1.106120299	8.79	1.154460779
8.791	1.10491523	8.791	1.153260205
8.792	1.103710161	8.792	1.152059631
8.793	1.102505092	8.793	1.150859057
8.794	1.101300023	8.794	1.149658483
8.795	1.100094954	8.795	1.148457909
8.796	1.098889885	8.796	1.147257335
8.797	1.097684816	8.797	1.146056761
8.798	1.096479747	8.798	1.144856187
8.799	1.095274678	8.799	1.143655613
8.8	1.094069608	8.8	1.142455039
8.801	1.093110288	8.801	1.141322286

8.802	1.092150968	8.802	1.140189534
8.803	1.091191647	8.803	1.139056781
8.804	1.090232327	8.804	1.137924029
8.805	1.089273006	8.805	1.136791276
8.806	1.088313686	8.806	1.135658523
8.807	1.087354365	8.807	1.134525771
8.808	1.086395045	8.808	1.133393018
8.809	1.085435725	8.809	1.132260265
8.81	1.084476404	8.81	1.131127513
8.811	1.083517084	8.811	1.12999476
8.812	1.082557763	8.812	1.128862007
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8.817	1.077761161	8.817	1.123198244
8.818	1.076801841	8.818	1.122065491
8.819	1.07584252	8.819	1.120932739
8.82	1.0748832	8.82	1.119799986
8.821	1.073923879	8.821	1.118667233
8.822	1.072964559	8.822	1.117534481
8.823	1.072005238	8.823	1.116401728
8.824	1.071045918	8.824	1.115268975
8.825	1.070086597	8.825	1.114136223
8.826	1.069127277	8.826	1.11300347
8.827	1.068167957	8.827	1.111870717
8.828	1.067208636	8.828	1.110737965
8.829	1.066249316	8.829	1.109605212
8.83	1.065289995	8.83	1.108472459
8.831	1.064330675	8.831	1.107339707
8.832	1.063371354	8.832	1.106206954
8.833	1.062412034	8.833	1.105074201
8.834	1.061452714	8.834	1.103941449
8.835	1.060493393	8.835	1.102808696
8.836	1.059534073	8.836	1.101675943
8.837	1.058574752	8.837	1.100543191
8.838	1.057615432	8.838	1.099410438
8.839	1.056656111	8.839	1.098277685
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8.841	1.05473747	8.841	1.09601218
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8.843	1.05281883	8.843	1.093746675
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8.845	1.050900189	8.845	1.091481169
8.846	1.049940868	8.846	1.090348417
8.847	1.048981548	8.847	1.089215664
8.848	1.048022227	8.848	1.088082911
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8.871	1.025957857	8.871	1.0620296
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8.876	1.021161255	8.876	1.056365837
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8.878	1.019242614	8.878	1.054100331
8.879	1.018283294	8.879	1.052967579
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8.902	0.997015004	8.902	1.027803377
8.903	0.996453723	8.903	1.027115179
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8.905	0.995331162	8.905	1.025738783
8.906	0.994769882	8.906	1.025050585
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8.916	0.989157077	8.916	1.018168606
8.917	0.988595796	8.917	1.017480408
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8.926	0.983544272	8.926	1.011286627
8.927	0.982982991	8.927	1.010598429
8.928	0.982421711	8.928	1.009910231
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8.931	0.98073787	8.931	1.007845637
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8.938	0.976808906	8.938	1.003028252
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8.94	0.975686345	8.94	1.001651856
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8.944	0.973441223	8.944	0.998899064
8.945	0.972879943	8.945	0.998210867
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8.948	0.971196101	8.948	0.996146273
8.949	0.970634821	8.949	0.995458075
8.95	0.97007354	8.95	0.994769877
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8.952	0.968950979	8.952	0.993393481
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8.954	0.967828418	8.954	0.992017085
8.955	0.967267138	8.955	0.991328887
8.956	0.966705857	8.956	0.990640689
8.957	0.966144577	8.957	0.989952492
8.958	0.965583296	8.958	0.989264294
8.959	0.965022016	8.959	0.988576096
8.96	0.964460735	8.96	0.987887898
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8.964	0.962215614	8.964	0.985135106
8.965	0.961654333	8.965	0.984446908
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8.984	0.950990004	8.984	0.971371148
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8.986	0.949867443	8.986	0.969994752
8.987	0.949306162	8.987	0.969306554
8.988	0.948744882	8.988	0.968618356
8.989	0.948183601	8.989	0.967930158
8.99	0.947622321	8.99	0.96724196
8.991	0.94706104	8.991	0.966553763
8.992	0.94649976	8.992	0.965865565
8.993	0.945938479	8.993	0.965177367
8.994	0.945377199	8.994	0.964489169
8.995	0.944815918	8.995	0.963800971
8.996	0.944254638	8.996	0.963112773
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8.998	0.943132077	8.998	0.961736377
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9	0.942009516	9	0.960359981
9.001	0.941430051	9.001	0.959824625
9.002	0.940850586	9.002	0.959289269
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9.007	0.93795326	9.007	0.956612489
9.008	0.937373795	9.008	0.956077133
9.009	0.93679433	9.009	0.955541777
9.01	0.936214865	9.01	0.955006421
9.011	0.9356354	9.011	0.954471065
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9.014	0.933897004	9.014	0.952864998
9.015	0.933317539	9.015	0.952329642
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9.055	0.910138935	9.055	0.930915402
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9.062	0.906082679	9.062	0.92716791
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9.068	0.902605888	9.068	0.923955774
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9.085	0.892754981	9.085	0.914854723
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9.093	0.88811926	9.093	0.910571875
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9.1	0.884063005	9.1	0.906824383
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9.105	0.880519556	9.105	0.903419375
9.106	0.879810866	9.106	0.902738374
9.107	0.879102177	9.107	0.902057372
9.108	0.878393487	9.108	0.90137637
9.109	0.877684797	9.109	0.900695369
9.11	0.876976107	9.11	0.900014367
9.111	0.876267418	9.111	0.899333366
9.112	0.875558728	9.112	0.898652364
9.113	0.874850038	9.113	0.897971363
9.114	0.874141349	9.114	0.897290361
9.115	0.873432659	9.115	0.89660936
9.116	0.872723969	9.116	0.895928358
9.117	0.87201528	9.117	0.895247357
9.118	0.87130659	9.118	0.894566355
9.119	0.8705979	9.119	0.893885354
9.12	0.86988921	9.12	0.893204352
9.121	0.869180521	9.121	0.892523351
9.122	0.868471831	9.122	0.891842349
9.123	0.867763141	9.123	0.891161348
9.124	0.867054452	9.124	0.890480346
9.125	0.866345762	9.125	0.889799344
9.126	0.865637072	9.126	0.889118343
9.127	0.864928383	9.127	0.888437341
9.128	0.864219693	9.128	0.88775634
9.129	0.863511003	9.129	0.887075338
9.13	0.862802313	9.13	0.886394337
9.131	0.862093624	9.131	0.885713335

9.132	0.861384934	9.132	0.885032334
9.133	0.860676244	9.133	0.884351332
9.134	0.859967555	9.134	0.883670331
9.135	0.859258865	9.135	0.882989329
9.136	0.858550175	9.136	0.882308328
9.137	0.857841486	9.137	0.881627326
9.138	0.857132796	9.138	0.880946325
9.139	0.856424106	9.139	0.880265323
9.14	0.855715416	9.14	0.879584321
9.141	0.855006727	9.141	0.87890332
9.142	0.854298037	9.142	0.878222318
9.143	0.853589347	9.143	0.877541317
9.144	0.852880658	9.144	0.876860315
9.145	0.852171968	9.145	0.876179314
9.146	0.851463278	9.146	0.875498312
9.147	0.850754588	9.147	0.874817311
9.148	0.850045899	9.148	0.874136309
9.149	0.849337209	9.149	0.873455308
9.15	0.848628519	9.15	0.872774306
9.151	0.84791983	9.151	0.872093305
9.152	0.84721114	9.152	0.871412303
9.153	0.84650245	9.153	0.870731302
9.154	0.845793761	9.154	0.8700503
9.155	0.845085071	9.155	0.869369299
9.156	0.844376381	9.156	0.868688297
9.157	0.843667691	9.157	0.868007295
9.158	0.842959002	9.158	0.867326294
9.159	0.842250312	9.159	0.866645292
9.16	0.841541622	9.16	0.865964291
9.161	0.840832933	9.161	0.865283289
9.162	0.840124243	9.162	0.864602288
9.163	0.839415553	9.163	0.863921286
9.164	0.838706864	9.164	0.863240285
9.165	0.837998174	9.165	0.862559283
9.166	0.837289484	9.166	0.861878282
9.167	0.836580794	9.167	0.86119728
9.168	0.835872105	9.168	0.860516279
9.169	0.835163415	9.169	0.859835277
9.17	0.834454725	9.17	0.859154276
9.171	0.833746036	9.171	0.858473274
9.172	0.833037346	9.172	0.857792272
9.173	0.832328656	9.173	0.857111271
9.174	0.831619966	9.174	0.856430269
9.175	0.830911277	9.175	0.855749268
9.176	0.830202587	9.176	0.855068266
9.177	0.829493897	9.177	0.854387265
9.178	0.828785208	9.178	0.853706263
9.179	0.828076518	9.179	0.853025262
9.18	0.827367828	9.18	0.85234426
9.181	0.826659139	9.181	0.851663259
9.182	0.825950449	9.182	0.850982257
9.183	0.825241759	9.183	0.850301256
9.184	0.824533069	9.184	0.849620254
9.185	0.82382438	9.185	0.848939253
9.186	0.82311569	9.186	0.848258251

9.187	0.822407	9.187	0.84757725
9.188	0.821698311	9.188	0.846896248
9.189	0.820989621	9.189	0.846215246
9.19	0.820280931	9.19	0.845534245
9.191	0.819572242	9.191	0.844853243
9.192	0.818863552	9.192	0.844172242
9.193	0.818154862	9.193	0.84349124
9.194	0.817446172	9.194	0.842810239
9.195	0.816737483	9.195	0.842129237
9.196	0.816028793	9.196	0.841448236
9.197	0.815320103	9.197	0.840767234
9.198	0.814611414	9.198	0.840086233
9.199	0.813902724	9.199	0.839405231
9.2	0.813194034	9.2	0.83872423
9.201	0.812177508	9.201	0.837731074
9.202	0.811160983	9.202	0.836737919
9.203	0.810144457	9.203	0.835744763
9.204	0.809127931	9.204	0.834751608
9.205	0.808111405	9.205	0.833758452
9.206	0.807094879	9.206	0.832765297
9.207	0.806078354	9.207	0.831772141
9.208	0.805061828	9.208	0.830778986
9.209	0.804045302	9.209	0.82978583
9.21	0.803028776	9.21	0.828792675
9.211	0.802012251	9.211	0.827799519
9.212	0.800995725	9.212	0.826806364
9.213	0.799979199	9.213	0.825813208
9.214	0.798962673	9.214	0.824820053
9.215	0.797946147	9.215	0.823826897
9.216	0.796929622	9.216	0.822833742
9.217	0.795913096	9.217	0.821840586
9.218	0.79489657	9.218	0.820847431
9.219	0.793880044	9.219	0.819854275
9.22	0.792863518	9.22	0.81886112
9.221	0.791846993	9.221	0.817867964
9.222	0.790830467	9.222	0.816874809
9.223	0.789813941	9.223	0.815881653
9.224	0.788797415	9.224	0.814888498
9.225	0.787780889	9.225	0.813895342
9.226	0.786764364	9.226	0.812902187
9.227	0.785747838	9.227	0.811909031
9.228	0.784731312	9.228	0.810915876
9.229	0.783714786	9.229	0.80992272
9.23	0.782698261	9.23	0.808929565
9.231	0.781681735	9.231	0.807936409
9.232	0.780665209	9.232	0.806943254
9.233	0.779648683	9.233	0.805950098
9.234	0.778632157	9.234	0.804956943
9.235	0.777615632	9.235	0.803963787
9.236	0.776599106	9.236	0.802970632
9.237	0.77558258	9.237	0.801977476
9.238	0.774566054	9.238	0.800984321
9.239	0.773549528	9.239	0.799991165
9.24	0.772533003	9.24	0.79899801
9.241	0.771516477	9.241	0.798004854

9.242	0.770499951	9.242	0.797011699
9.243	0.769483425	9.243	0.796018543
9.244	0.768466899	9.244	0.795025388
9.245	0.767450374	9.245	0.794032232
9.246	0.766433848	9.246	0.793039077
9.247	0.765417322	9.247	0.792045921
9.248	0.764400796	9.248	0.791052766
9.249	0.763384271	9.249	0.79005961
9.25	0.762367745	9.25	0.789066455
9.251	0.761351219	9.251	0.788073299
9.252	0.760334693	9.252	0.787080144
9.253	0.759318167	9.253	0.786086988
9.254	0.758301642	9.254	0.785093833
9.255	0.757285116	9.255	0.784100677
9.256	0.75626859	9.256	0.783107522
9.257	0.755252064	9.257	0.782114366
9.258	0.754235538	9.258	0.781121211
9.259	0.753219013	9.259	0.780128055
9.26	0.752202487	9.26	0.7791349
9.261	0.751185961	9.261	0.778141744
9.262	0.750169435	9.262	0.777148589
9.263	0.74915291	9.263	0.776155433
9.264	0.748136384	9.264	0.775162278
9.265	0.747119858	9.265	0.774169122
9.266	0.746103332	9.266	0.773175967
9.267	0.745086806	9.267	0.772182811
9.268	0.744070281	9.268	0.771189656
9.269	0.743053755	9.269	0.7701965
9.27	0.742037229	9.27	0.769203345
9.271	0.741020703	9.271	0.768210189
9.272	0.740004177	9.272	0.767217034
9.273	0.738987652	9.273	0.766223878
9.274	0.737971126	9.274	0.765230723
9.275	0.7369546	9.275	0.764237567
9.276	0.735938074	9.276	0.763244412
9.277	0.734921548	9.277	0.762251256
9.278	0.733905023	9.278	0.761258101
9.279	0.732888497	9.279	0.760264945
9.28	0.731871971	9.28	0.75927179
9.281	0.730855445	9.281	0.758278634
9.282	0.72983892	9.282	0.757285479
9.283	0.728822394	9.283	0.756292323
9.284	0.727805868	9.284	0.755299168
9.285	0.726789342	9.285	0.754306012
9.286	0.725772816	9.286	0.753312857
9.287	0.724756291	9.287	0.752319701
9.288	0.723739765	9.288	0.751326546
9.289	0.722723239	9.289	0.750333339
9.29	0.721706713	9.29	0.749340235
9.291	0.720690187	9.291	0.748347079
9.292	0.719673662	9.292	0.747353924
9.293	0.718657136	9.293	0.746360768
9.294	0.71764061	9.294	0.745367613
9.295	0.716624084	9.295	0.744374457
9.296	0.715607558	9.296	0.743381302

9.297	0.714591033	9.297	0.742388146
9.298	0.713574507	9.298	0.741394991
9.299	0.712557981	9.299	0.740401835
9.3	0.711541455	9.3	0.739408679
9.301	0.710011603	9.301	0.737897789
9.302	0.708481752	9.302	0.736386898
9.303	0.7069519	9.303	0.734876007
9.304	0.705422048	9.304	0.733365116
9.305	0.703892196	9.305	0.731854225
9.306	0.702362344	9.306	0.730343334
9.307	0.700832492	9.307	0.728832443
9.308	0.69930264	9.308	0.727321552
9.309	0.697772788	9.309	0.725810661
9.31	0.696242936	9.31	0.72429977
9.311	0.694713085	9.311	0.722788879
9.312	0.693183233	9.312	0.721277989
9.313	0.691653381	9.313	0.719767098
9.314	0.690123529	9.314	0.718256207
9.315	0.688593677	9.315	0.716745316
9.316	0.687063825	9.316	0.715234425
9.317	0.685533973	9.317	0.713723534
9.318	0.684004121	9.318	0.712212643
9.319	0.682474269	9.319	0.710701752
9.32	0.680944418	9.32	0.709190861
9.321	0.679414566	9.321	0.70767997
9.322	0.677884714	9.322	0.706169079
9.323	0.676354862	9.323	0.704658188
9.324	0.67482501	9.324	0.703147298
9.325	0.673295158	9.325	0.701636407
9.326	0.671765306	9.326	0.700125516
9.327	0.670235454	9.327	0.698614625
9.328	0.668705602	9.328	0.697103734
9.329	0.667175751	9.329	0.695592843
9.33	0.665645899	9.33	0.694081952
9.331	0.664116047	9.331	0.692571061
9.332	0.662586195	9.332	0.69106017
9.333	0.661056343	9.333	0.689549279
9.334	0.659526491	9.334	0.688038388
9.335	0.657996639	9.335	0.686527497
9.336	0.656466787	9.336	0.685016607
9.337	0.654936935	9.337	0.683505716
9.338	0.653407083	9.338	0.681994825
9.339	0.651877232	9.339	0.680483934
9.34	0.65034738	9.34	0.678973043
9.341	0.648817528	9.341	0.677462152
9.342	0.647287676	9.342	0.675951261
9.343	0.645757824	9.343	0.67444037
9.344	0.644227972	9.344	0.672929479
9.345	0.64269812	9.345	0.671418588
9.346	0.641168268	9.346	0.669907697
9.347	0.639638416	9.347	0.668396806
9.348	0.638108565	9.348	0.666885916
9.349	0.636578713	9.349	0.665375025
9.35	0.635048861	9.35	0.663864134
9.351	0.633519009	9.351	0.662353243

9.352	0.631989157	9.352	0.660842352
9.353	0.630459305	9.353	0.659331461
9.354	0.628929453	9.354	0.65782057
9.355	0.627399601	9.355	0.656309679
9.356	0.625869749	9.356	0.654798788
9.357	0.624339898	9.357	0.653287897
9.358	0.622810046	9.358	0.651777006
9.359	0.621280194	9.359	0.650266115
9.36	0.619750342	9.36	0.648755225
9.361	0.61822049	9.361	0.647244334
9.362	0.616690638	9.362	0.645733443
9.363	0.615160786	9.363	0.644222552
9.364	0.613630934	9.364	0.642711661
9.365	0.612101082	9.365	0.64120077
9.366	0.610571231	9.366	0.639689879
9.367	0.609041379	9.367	0.638178988
9.368	0.607511527	9.368	0.636668097
9.369	0.605981675	9.369	0.635157206
9.37	0.604451823	9.37	0.633646315
9.371	0.602921971	9.371	0.632135424
9.372	0.601392119	9.372	0.630624534
9.373	0.599862267	9.373	0.629113643
9.374	0.598332415	9.374	0.627602752
9.375	0.596802564	9.375	0.626091861
9.376	0.595272712	9.376	0.62458097
9.377	0.59374286	9.377	0.623070079
9.378	0.592213008	9.378	0.621559188
9.379	0.590683156	9.379	0.620048297
9.38	0.589153304	9.38	0.618537406
9.381	0.587623452	9.381	0.617026515
9.382	0.5860936	9.382	0.615515624
9.383	0.584563748	9.383	0.614004733
9.384	0.583033897	9.384	0.612493843
9.385	0.581504045	9.385	0.610982952
9.386	0.579974193	9.386	0.609472061
9.387	0.578444341	9.387	0.60796117
9.388	0.576914489	9.388	0.606450279
9.389	0.575384637	9.389	0.604939388
9.39	0.573854785	9.39	0.603428497
9.391	0.572324933	9.391	0.601917606
9.392	0.570795081	9.392	0.600406715
9.393	0.56926523	9.393	0.598895824
9.394	0.567735378	9.394	0.597384933
9.395	0.566205526	9.395	0.595874042
9.396	0.564675674	9.396	0.594363152
9.397	0.563145822	9.397	0.592852261
9.398	0.56161597	9.398	0.59134137
9.399	0.560086118	9.399	0.589830479
9.4	0.558556266	9.4	0.588319588
9.401	0.556254025	9.401	0.58603308
9.402	0.553951783	9.402	0.583746572
9.403	0.551649541	9.403	0.581460064
9.404	0.5493473	9.404	0.579173556
9.405	0.547045058	9.405	0.576887048
9.406	0.544742816	9.406	0.57460054

9.407	0.542440575	9.407	0.572314032
9.408	0.540138333	9.408	0.570027524
9.409	0.537836091	9.409	0.567741016
9.41	0.535533849	9.41	0.565454508
9.411	0.533231608	9.411	0.563168
9.412	0.530929366	9.412	0.560881492
9.413	0.528627124	9.413	0.558594984
9.414	0.526324883	9.414	0.556308476
9.415	0.524022641	9.415	0.554021968
9.416	0.521720399	9.416	0.55173546
9.417	0.519418158	9.417	0.549448952
9.418	0.517115916	9.418	0.547162444
9.419	0.514813674	9.419	0.544875936
9.42	0.512511433	9.42	0.542589428
9.421	0.510209191	9.421	0.54030292
9.422	0.507906949	9.422	0.538016412
9.423	0.505604708	9.423	0.535729904
9.424	0.503302466	9.424	0.533443396
9.425	0.501000224	9.425	0.531156888
9.426	0.498697983	9.426	0.52887038
9.427	0.496395741	9.427	0.526583872
9.428	0.494093499	9.428	0.524297364
9.429	0.491791258	9.429	0.522010856
9.43	0.489489016	9.43	0.519724348
9.431	0.487186774	9.431	0.51743784
9.432	0.484884532	9.432	0.515151332
9.433	0.482582291	9.433	0.512864824
9.434	0.480280049	9.434	0.510578316
9.435	0.477977807	9.435	0.508291808
9.436	0.475675566	9.436	0.5060053
9.437	0.473373324	9.437	0.503718792
9.438	0.471071082	9.438	0.501432284
9.439	0.468768841	9.439	0.499145776
9.44	0.466466599	9.44	0.496859268
9.441	0.464164357	9.441	0.49457276
9.442	0.461862116	9.442	0.492286252
9.443	0.459559874	9.443	0.489999744
9.444	0.457257632	9.444	0.487713236
9.445	0.454955391	9.445	0.485426728
9.446	0.452653149	9.446	0.483140219
9.447	0.450350907	9.447	0.480853711
9.448	0.448048666	9.448	0.478567203
9.449	0.445746424	9.449	0.476280695
9.45	0.443444182	9.45	0.473994187
9.451	0.441141941	9.451	0.471707679
9.452	0.438839699	9.452	0.469421171
9.453	0.436537457	9.453	0.467134663
9.454	0.434235215	9.454	0.464848155
9.455	0.431932974	9.455	0.462561647
9.456	0.429630732	9.456	0.460275139
9.457	0.42732849	9.457	0.457988631
9.458	0.425026249	9.458	0.455702123
9.459	0.422724007	9.459	0.453415615
9.46	0.420421765	9.46	0.451129107
9.461	0.418119524	9.461	0.448842599

9.462	0.415817282	9.462	0.446556091
9.463	0.41351504	9.463	0.444269583
9.464	0.411212799	9.464	0.441983075
9.465	0.408910557	9.465	0.439696567
9.466	0.406608315	9.466	0.437410059
9.467	0.404306074	9.467	0.435123551
9.468	0.402003832	9.468	0.432837043
9.469	0.39970159	9.469	0.430550535
9.47	0.397399349	9.47	0.428264027
9.471	0.395097107	9.471	0.425977519
9.472	0.392794865	9.472	0.423691011
9.473	0.390492623	9.473	0.421404503
9.474	0.388190382	9.474	0.419117995
9.475	0.38588814	9.475	0.416831487
9.476	0.383585898	9.476	0.414544979
9.477	0.381283657	9.477	0.412258471
9.478	0.378981415	9.478	0.409971963
9.479	0.376679173	9.479	0.407685455
9.48	0.374376932	9.48	0.405398947
9.481	0.37207469	9.481	0.403112439
9.482	0.369772448	9.482	0.400825931
9.483	0.367470207	9.483	0.398539423
9.484	0.365167965	9.484	0.396252915
9.485	0.362865723	9.485	0.393966407
9.486	0.360563482	9.486	0.391679899
9.487	0.35826124	9.487	0.389393391
9.488	0.355958998	9.488	0.387106883
9.489	0.353656757	9.489	0.384820375
9.49	0.351354515	9.49	0.382533867
9.491	0.349052273	9.491	0.380247359
9.492	0.346750032	9.492	0.377960851
9.493	0.34444779	9.493	0.375674343
9.494	0.342145548	9.494	0.373387835
9.495	0.339843306	9.495	0.371101327
9.496	0.337541065	9.496	0.368814819
9.497	0.335238823	9.497	0.366528311
9.498	0.332936581	9.498	0.364241803
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9.501	0.324953361	9.501	0.356304482
9.502	0.321574624	9.502	0.352940178
9.503	0.318195887	9.503	0.349575873
9.504	0.31481715	9.504	0.346211568
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9.508	0.301302202	9.508	0.332754349
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9.51	0.294544728	9.51	0.32602574
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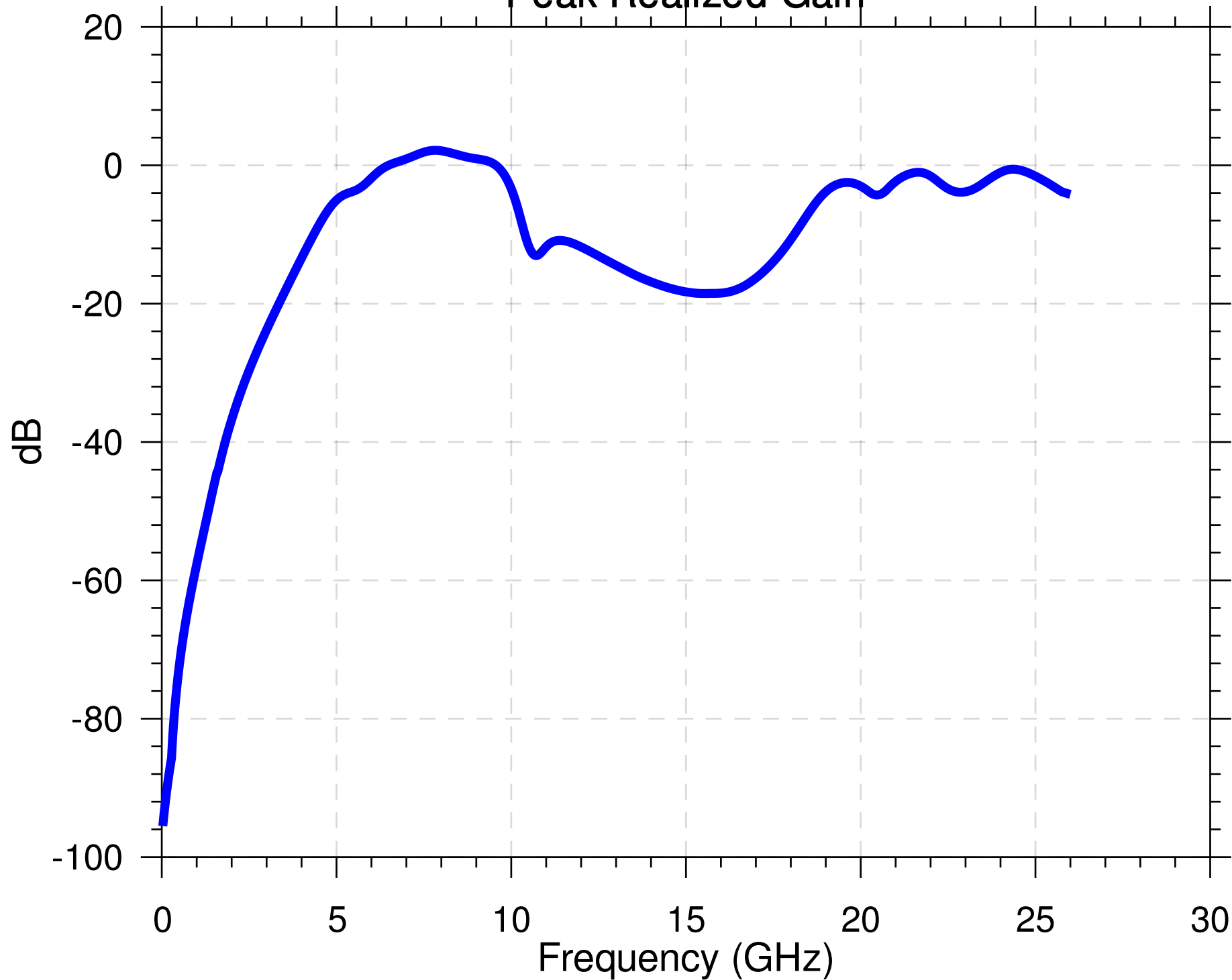
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