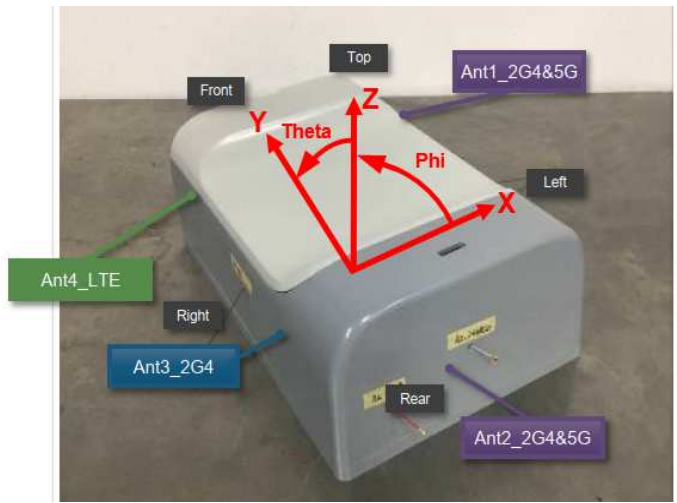


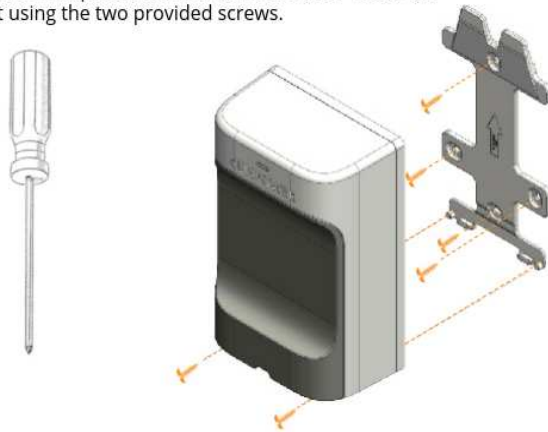
# PVS6



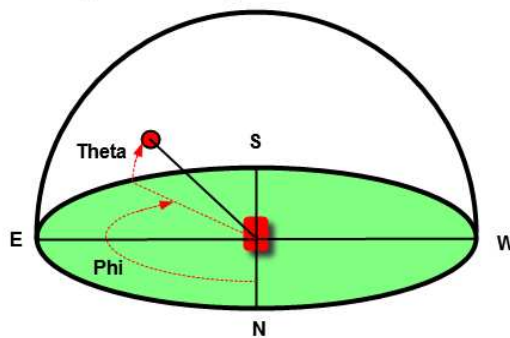
## Installation Notes

### 1. Mount the PVS6

Mount the PVS6 bracket to the wall using hardware that supports 6.8 kg (15 lb); use Phillips screwdriver to secure the PVS6 to the bracket using the two provided screws.



elevation angle above 30 degrees as measured from the horizon



# ANT 1

Frequency=5150(MHz)

MAX GAIN 1.489371069

Phi	Theta	Angle degrees from the vertical	Angle above 30 degrees from the horizon	E Total. dB	E(Phi) . Amp dB	E(Theta) . Amp dB	E(Phi) . Phase	E(Theta) . Phase
-3.14159265	0.523598776	-180	30	1.255175522	-1.257831621	-2.316813359	0.722628588	0.12112652
-3.08923278	0.523598776	-177	30	-0.321987322	-3.18055417	-3.489514134	0.009602321	-0.579204671
-3.0368729	0.523598776	-174	30	-3.460799664	-7.263174134	-5.801444554	-1.102116685	-1.54669094
-2.98451302	0.523598776	-171	30	-2.357963507	-5.242548139	-5.497726631	-2.265821568	-2.425977301
-2.93215314	0.523598776	-168	30	-3.01426297	-4.852685962	-7.634485287	-2.817673289	-2.983241551
-2.87979327	0.523598776	-165	30	-7.329875792	-8.379585417	-14.01131542	2.920458151	2.337508346
-2.82743339	0.523598776	-162	30	-10.51982651	-14.33236842	-12.85322423	2.116819106	1.008291651
-2.77507351	0.523598776	-159	30	-12.53560147	-24.53267168	-12.81884669	-0.049187411	0.39263638
-2.72271363	0.523598776	-156	30	-8.270569883	-9.672809764	-13.86246149	-1.329243692	-0.613916193
-2.67035376	0.523598776	-153	30	-3.381903525	-4.51623483	-9.767175318	-1.538335293	-1.409474312
-2.61799388	0.523598776	-150	30	-2.134105482	-5.67254703	-7.645921446	-1.708080164	-1.8835071
-2.565634	0.523598776	-147	30	-3.458714985	-5.862499994	-7.174198736	-2.04801693	-2.506094468
-2.51327412	0.523598776	-144	30	-4.512310443	-9.480277467	-6.178090571	-2.896549724	3.104694412
-2.46091425	0.523598776	-141	30	-4.567344877	-8.759694236	-6.649454411	2.346720496	2.585526403
-2.40855437	0.523598776	-138	30	-6.08044397	-7.585901788	-11.4126077	1.622129748	1.922885881
-2.35619449	0.523598776	-135	30	-6.346850403	-7.118172468	-14.23229061	1.024046446	0.249129841
-2.30383461	0.523598776	-132	30	-5.680336431	-7.406948706	-10.52097317	0.645692412	-0.664064809
-2.25147474	0.523598776	-129	30	-6.962724468	-8.784240347	-11.61520997	0.528714397	-1.306995106
-2.19911486	0.523598776	-126	30	-8.433024791	-9.292460507	-15.8913676	0.543470901	-2.139380376
-2.14675498	0.523598776	-123	30	-7.594872393	-7.701417984	-23.75052456	0.379441923	2.559715923
-2.0943951	0.523598776	-120	30	-5.327127413	-5.745451654	-15.69732354	0.050186275	0.747028004
-2.04203522	0.523598776	-117	30	-4.132635221	-5.016293432	-11.48197527	-0.330563874	0.255535206
-1.98967535	0.523598776	-114	30	-5.001525301	-6.009277697	-11.83996715	-0.785763648	-0.02141805
-1.93731547	0.523598776	-111	30	-7.505222062	-8.295503399	-15.29439829	-1.389688751	-0.078250591
-1.88495559	0.523598776	-108	30	-9.761842875	-10.45975685	-18.04595191	-2.197519151	-0.449962402
-1.83259571	0.523598776	-105	30	-8.934206409	-10.21395014	-14.86498994	-3.032963412	0.932465785
-1.78023584	0.523598776	-102	30	-7.082613355	-8.598382659	-12.38998938	2.742828771	1.101564977
-1.72787596	0.523598776	-99	30	-6.260640188	-7.952446348	-11.17345468	2.508808824	1.241943944
-1.67551608	0.523598776	-96	30	-6.46195199	-8.898430822	-10.13360201	2.376017835	1.315618898
-1.6231562	0.523598776	-93	30	-7.386113348	-11.72639143	-9.379666928	2.240482133	1.281297584
-1.57079633	0.523598776	-90	30	-9.093471747	-17.48175524	-9.773477694	2.159968602	1.249894375
-1.51843645	0.523598776	-87	30	-12.05590347	-24.95850815	-12.28441025	-2.764169066	1.426415701
-1.46607657	0.523598776	-84	30	-11.44987783	-14.10954839	-14.84162139	-2.122291118	2.173477122
-1.41371669	0.523598776	-81	30	-7.438596456	-9.341223529	-11.9395412	-2.146886396	2.854108585
-1.36135682	0.523598776	-78	30	-5.309161652	-7.314337626	-9.629560815	-2.244366378	3.066100908
-1.30899694	0.523598776	-75	30	-4.362676617	-6.37977705	-8.662829176	-2.439703614	-3.13361647
-1.25663706	0.523598776	-72	30	-3.365884478	-5.126898225	-8.136894721	-2.718921456	-3.059787015
-1.20427718	0.523598776	-69	30	-2.115089293	-3.342061976	-8.203635845	-2.95084696	-2.959385504
-1.15191731	0.523598776	-66	30	-1.338305342	-2.007064493	-9.793540645	-3.071632935	-2.792961815
-1.09955743	0.523598776	-63	30	-1.409931499	-1.684274316	-13.54128801	-3.094873171	-2.431142858
-1.04719755	0.523598776	-60	30	-2.212502288	-2.348656253	-17.31794161	-3.016448396	-1.717586246
-0.99483767	0.523598776	-57	30	-3.584310222	-3.685790764	-19.94896701	-2.794015804	-1.182544767
-0.9424778	0.523598776	-54	30	-5.030485376	-5.034642269	-35.22271821	-2.362842283	-1.024260121
-0.89011792	0.523598776	-51	30	-4.897257907	-5.022076052	-20.37458339	-1.739293575	2.15926115
-0.83775804	0.523598776	-48	30	-2.949392116	-3.277582171	-14.32904276	-1.151835399	2.186663599
-0.78539816	0.523598776	-45	30	-1.222881747	-1.621391364	-11.79406807	-0.703464457	2.334881299
-0.73303829	0.523598776	-42	30	-0.681751033	-1.195712631	-10.20473419	-0.286885212	2.622292676
-0.68067841	0.523598776	-39	30	-1.206564265	-1.953666032	-9.218806892	0.241508494	2.935668614
-0.62831853	0.523598776	-36	30	-1.848646719	-2.574986269	-9.973202308	0.972298368	-3.05757751
-0.57595865	0.523598776	-33	30	-1.421928092	-1.674687785	-13.89845994	1.750369205	-2.705868977
-0.52359878	0.523598776	-30	30	-0.299117399	-0.313732894	-25.03613088	2.403712247	-1.889131905
-0.4712389	0.523598776	-27	30	0.312006508	0.267004437	-19.5559932	2.959519133	0.869097017
-0.41887902	0.523598776	-24	30	-0.318926879	-0.628628854	-11.94126105	-2.788447806	1.481329107
-0.36651914	0.523598776	-21	30	-2.349989412	-3.421415307	-8.952916084	-2.116753556	1.879919261
-0.31415927	0.523598776	-18	30	-4.4019755	-6.030527511	-9.450662731	-1.047592821	2.318532412
-0.26179939	0.523598776	-15	30	-4.097426574	-4.900031	-11.82537788	-0.012507009	-3.116369749
-0.20943951	0.523598776	-12	30	-3.311429848	-4.342825912	-10.06051509	0.721783835	-2.106659935

-0.15707963	0.523598776	-9	30	-3.882252455	-5.611613306	-8.717264596	1.435674122	-1.520836458
-0.10471976	0.523598776	-6	30	-6.323774502	-8.324184706	-10.65230759	2.278174874	-0.935998123
-0.05235988	0.523598776	-3	30	-9.574776229	-11.22007754	-14.58687516	-2.784134855	0.005227825
-4.4409E-16	0.523598776	0	30	-8.308118013	-8.956428663	-16.88825317	-1.465060336	1.445750185
0.052359878	0.523598776	3	30	-5.042336154	-5.878076623	-12.61063612	2.52113182	-0.289952731
0.104719755	0.523598776	6	30	-2.844996634	-4.282002233	-8.346964305	-3.067722316	0.441659006
0.157079633	0.523598776	9	30	-2.123204832	-3.667244773	-7.363633742	-2.411045057	1.019204711
0.20943951	0.523598776	12	30	-2.69933287	-4.121957649	-8.238184879	-1.744011859	1.765951924
0.261799388	0.523598776	15	30	-3.441541833	-5.331122209	-7.966319427	-0.939805942	2.644292755
0.314159265	0.523598776	18	30	-3.220979411	-5.505029045	-7.103855514	0.009173621	-2.929894865
0.366519143	0.523598776	21	30	-2.631064036	-4.528518822	-7.141432975	0.891449746	-2.30147092
0.41887902	0.523598776	24	30	-1.950470481	-3.402918466	-7.413310761	1.696657834	-1.664539457
0.471238898	0.523598776	27	30	-1.130629674	-2.275370572	-7.481206095	2.41423424	-1.062406617
0.523598776	0.523598776	30	30	-0.857724691	-1.894998564	-7.5849526	3.048468846	-0.496565466
0.575958653	0.523598776	33	30	-1.328140055	-2.446292227	-7.768061589	-2.575451005	0.060421802
0.628318531	0.523598776	36	30	-1.803884905	-2.935751807	-8.197423591	-1.849316553	0.62051621
0.680678408	0.523598776	39	30	-2.033011095	-3.025177129	-8.931653401	-1.164008421	1.219082207
0.733038286	0.523598776	42	30	-2.488992555	-4.526397424	-9.566573952	-0.522793374	1.839921942
0.785398163	0.523598776	45	30	-2.979544323	-3.873701101	-10.28266116	0.144714439	2.410994324
0.837758041	0.523598776	48	30	-3.108985992	-3.813689997	-11.35435025	0.789184533	2.963689809
0.890117919	0.523598776	51	30	-3.090350817	-3.72343882	-11.76625246	1.369863545	-2.767830926
0.942477796	0.523598776	54	30	-3.116624173	-3.834387084	-11.28859701	1.916524676	-2.329176608
0.994837674	0.523598776	57	30	-3.405511937	-4.192936727	-11.20902954	2.417300358	-1.941171756
1.047197551	0.523598776	60	30	-4.319446834	-5.208298185	-11.64584701	2.876375006	-1.41200871
1.099557429	0.523598776	63	30	-5.411913131	-6.72890416	-11.23579568	-2.9324906	-0.776339522
1.151917306	0.523598776	66	30	-6.036656302	-7.733513236	-10.93888613	-2.487690099	-0.264948228
1.204277184	0.523598776	69	30	-6.966002517	-8.288555648	-12.77422237	-2.212198868	0.186502381
1.256637061	0.523598776	72	30	-8.557050216	-9.2453517	-16.89671267	-2.042404242	0.793939659
1.308996939	0.523598776	75	30	-9.971748423	-10.30410829	-21.29862592	-1.751235354	1.629925495
1.361356817	0.523598776	78	30	-9.305026252	-9.393881197	-26.24040509	-1.311114631	2.668539547
1.413716694	0.523598776	81	30	-6.833578271	-6.930465527	-23.39710841	-1.040474117	-2.278651629
1.466076572	0.523598776	84	30	-4.926512146	-5.144179489	-18.03480161	-0.922745288	-1.912061275
1.518436449	0.523598776	87	30	-4.000586009	-4.358521368	-15.01812166	-0.799116488	-1.68899808
1.570796327	0.523598776	90	30	-3.534241492	-4.032353229	-13.18549253	-0.591544059	-1.340098604
1.623156204	0.523598776	93	30	-3.065130454	-3.672804004	-11.90656479	-0.359786724	-0.961868815
1.675516082	0.523598776	96	30	-3.065300604	-3.658506589	-12.00431589	-0.225186464	-0.706669609
1.72787596	0.523598776	99	30	-4.005606805	-4.446578343	-14.15796462	-0.245610907	-0.651641615
1.780235837	0.523598776	102	30	-5.128532438	-5.482510692	-16.19239677	-0.410329198	-0.903257138
1.832595715	0.523598776	105	30	-5.36020328	-5.938888846	-14.39975031	-0.601420442	-1.119866901
1.884955592	0.523598776	108	30	-5.355648725	-6.344836044	-12.2659164	-0.736307572	-1.127379699
1.93731547	0.523598776	111	30	-6.206350009	-7.417915547	-12.3424328	-0.935005034	-1.24880585
1.989675347	0.523598776	114	30	-6.819401145	-7.971575887	-13.14541935	-1.351026109	-1.757717202
2.042035225	0.523598776	117	30	-5.058986853	-6.409259704	-10.79027278	-1.752398312	-2.242117238
2.094395102	0.523598776	120	30	-3.622830904	-5.102979256	-9.016696902	-1.976614511	-2.338017235
2.14675498	0.523598776	123	30	-4.026832194	-5.465031677	-9.525757253	-2.264972298	-2.372406298
2.199114858	0.523598776	126	30	-4.676225907	-5.684914701	-11.51108429	-2.881344097	-2.768651748
2.251474735	0.523598776	129	30	-2.329201788	-3.194729685	-9.759813212	2.788779677	2.784327203
2.303834613	0.523598776	132	30	-0.571788314	-1.555817602	-7.502279689	2.390597719	2.437456294
2.35619449	0.523598776	135	30	-1.289932824	-1.989218741	-9.566180565	1.902859163	2.146459725
2.408554368	0.523598776	138	30	-1.655705194	-1.853500631	-15.169908	1.169833481	0.966707805
2.460914245	0.523598776	141	30	0.439747424	-0.079356698	-9.042517964	0.577262697	-0.120009545
2.513274123	0.523598776	144	30	1.094615685	0.298975352	-6.667807903	0.13732191	-0.488813369
2.565634	0.523598776	147	30	0.333157606	-0.650540638	-6.598635781	-0.452349618	-0.987881761
2.617993878	0.523598776	150	30	1.127987015	-0.035057665	-5.16244451	-1.19646132	-1.58381825
2.670353756	0.523598776	153	30	1.249869039	1.336646609	-3.581068506	-1.770055788	-2.013513658
2.722713633	0.523598776	156	30	1.303311211	1.235126346	-3.870423819	-2.316665415	-2.467528329
2.775073511	0.523598776	159	30	1.484867506	0.554413621	-5.167734357	-3.03319709	3.104308103
2.827433388	0.523598776	162	30	1.381834419	0.4617657	-5.809721773	2.473478825	2.218188246
2.879793266	0.523598776	165	30	0.835138483	-0.147653402	-6.100222154	1.65082113	1.138136141
2.932153143	0.523598776	168	30	1.084095374	0.305913858	-2.957462895	0.684435611	0.086200387
2.984513021	0.523598776	171	30	1.489371069	1.791917365	-0.622793426	-0.074228929	-0.55170868
3.036872899	0.523598776	174	30	1.309527233	1.255361489	-1.480979312	-0.71000105	-1.178994302
3.089232776	0.523598776	177	30	1.314777732	-0.674688364	-3.032525959	-1.536776668	-2.134029815
3.141592654	0.523598776	180	30	1.255175522	-1.257831621	-2.316813359	-2.418964065	-3.020466133

-3.14159265	0.785398163	-180	45	1.255175789	-3.329859995	-0.601906261	0.887959723	0.257355537
-3.08923278	0.785398163	-177	45	-0.719247332	-5.863056225	-2.30520157	0.191881612	-0.491086018
-3.0368729	0.785398163	-174	45	-5.682516458	-14.64229196	-6.272692309	-0.951598795	-1.707798474
-2.98451302	0.785398163	-171	45	-4.379130025	-11.96462189	-5.211231122	-2.933411188	-2.957804117
-2.93215314	0.785398163	-168	45	-4.978215362	-10.68079032	-6.339005617	2.358908523	2.298790094
-2.87979327	0.785398163	-165	45	-3.931385587	-9.629228992	-5.293918248	1.227687318	1.027406175
-2.82743339	0.785398163	-162	45	-2.618279873	-9.061265457	-3.735532711	0.377206107	0.231579725
-2.77507351	0.785398163	-159	45	-4.353216073	-10.44528879	-5.579038191	-0.694556469	-0.583835544
-2.72271363	0.785398163	-156	45	-3.780158375	-7.798566174	-5.972834025	-1.695980747	-1.689635954
-2.67035376	0.785398163	-153	45	-2.746318264	-6.748315912	-4.94980578	-2.176644575	-2.463127081
-2.61799388	0.785398163	-150	45	-4.130436136	-9.241472934	-5.730914312	-2.603220442	3.133295536
-2.565634	0.785398163	-147	45	-4.945756336	-12.55646582	-5.772550551	2.913942574	2.411746484
-2.51327412	0.785398163	-144	45	-4.604219916	-11.62645315	-5.565224685	2.175732296	1.928039824
-2.46091425	0.785398163	-141	45	-5.896438398	-10.68971439	-7.646361159	1.74267732	1.517435008
-2.40855437	0.785398163	-138	45	-8.42510048	-11.00197507	-11.91692636	1.228330483	0.734893355
-2.35619449	0.785398163	-135	45	-8.968052732	-11.36945193	-12.68676562	0.526808905	-0.460306225
-2.30383461	0.785398163	-132	45	-8.250228043	-10.91150942	-11.6400658	-0.304173109	-1.4886422401
-2.25147474	0.785398163	-129	45	-5.915213851	-8.629423367	-9.243277543	-1.040255487	-2.384201741
-2.19911486	0.785398163	-126	45	-4.326863383	-6.626366767	-8.187504753	-1.436543928	-2.888380513
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-2.0943951	0.785398163	-120	45	-8.81289728	-8.82991919	-32.8891657	-1.701137928	-2.28077188
-2.04203522	0.785398163	-117	45	-10.37503281	-12.28622773	-14.86043586	-1.914428374	-0.888910667
-1.98967535	0.785398163	-114	45	-10.3335987	-15.02148257	-12.13678297	-2.379838303	-1.279093686
-1.93731547	0.785398163	-111	45	-11.64522901	-17.26683695	-13.0361974	-2.837764211	-1.610565294
-1.88495559	0.785398163	-108	45	-17.37057515	-24.99774664	-18.1939251	2.702957094	-1.470440623
-1.83259571	0.785398163	-105	45	-16.6798895	-21.08105397	-18.63836369	0.688063586	-0.146685321
-1.78023584	0.785398163	-102	45	-12.27699883	-16.50007152	-14.34031654	0.189006381	0.260389117
-1.72787596	0.785398163	-99	45	-11.58137559	-15.42837518	-13.89042707	-0.370480524	0.490287578
-1.67551608	0.785398163	-96	45	-10.01089476	-12.93883216	-13.1051495	-0.893707756	0.729127018
-1.6231562	0.785398163	-93	45	-7.684340719	-10.4423784	-10.96246427	-1.095544581	0.766853069
-1.57079633	0.785398163	-90	45	-6.644768556	-9.506906465	-9.808464269	-1.154397198	0.729324148
-1.51843645	0.785398163	-87	45	-7.773030959	-10.33818192	-11.27937358	-1.218675637	0.852544252
-1.46607657	0.785398163	-84	45	-10.65298166	-13.25875993	-14.10938892	-1.311114929	1.485723859
-1.41371669	0.785398163	-81	45	-11.47544239	-20.19341223	-12.10196528	-1.23491045	2.191482035
-1.36135682	0.785398163	-78	45	-10.2891552	-23.42558682	-10.50538103	0.682504068	2.420799408
-1.30899694	0.785398163	-75	45	-9.161714738	-14.7560945	-10.56300677	1.112263223	2.622798898
-1.25663706	0.785398163	-72	45	-7.51339275	-11.51330541	-9.718258829	1.291971968	2.98516982
-1.20427718	0.785398163	-69	45	-5.607233357	-9.877280231	-7.642229293	1.504697599	-2.988019427
-1.15191731	0.785398163	-66	45	-4.794659318	-8.782621409	-7.007448174	1.738096419	-2.734481113
-1.09955743	0.785398163	-63	45	-5.331955737	-8.212596916	-8.475904878	2.056070103	-2.271805939
-1.04719755	0.785398163	-60	45	-4.81513537	-7.346039264	-8.36439209	2.583546666	-1.481701604
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-0.9424778	0.785398163	-54	45	-0.672769721	-2.005328754	-6.45300474	-2.709466021	-0.640898837
-0.89011792	0.785398163	-51	45	-0.103243884	-0.679958608	-9.15664344	-2.371769857	-0.161310853
-0.83775804	0.785398163	-48	45	-0.23595735	-0.605793222	-11.11731587	-1.996808472	0.760439202
-0.78539816	0.785398163	-45	45	-0.463411153	-1.089823206	-9.182095241	-1.552064854	1.650350001
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-0.4712389	0.785398163	-27	45	-0.76932267	-0.973100714	-14.15708254	2.234219031	-1.080540553
-0.41887902	0.785398163	-24	45	-1.605224008	-2.026599541	-11.94535838	2.814579934	0.331468449
-0.36651914	0.785398163	-21	45	-3.20390963	-4.86895716	-8.173444125	-2.794512778	1.175307233
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1.204277184	0.785398163	69	45	-10.4095484	-11.73056197	-16.22209594	-0.047223179	1.923190741
1.256637061	0.785398163	72	45	-13.11651762	-15.25767916	-17.21455103	0.35734699	2.798862444
1.308996939	0.785398163	75	45	-14.33931757	-16.58451935	-18.27895185	0.824893504	-2.664318459
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1.93731547	0.785398163	111	45	-5.102006875	-6.691733073	-10.23727029	0.552349558	0.186337197
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-2.77507351	1.047197551	-159	60	-2.272785775	-14.15618835	-2.563799513	-0.015259079	-0.691442996
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-1.93731547	1.047197551	-111	60	-5.288922809	-6.973311668	-10.21735072	2.214687702	-0.039555797
-1.88495559	1.047197551	-108	60	-5.778875467	-8.057485024	-9.669624805	2.103518663	-0.465998948
-1.83259571	1.047197551	-105	60	-7.0409837	-10.78433897	-9.424277247	2.016925021	-0.681008298
-1.78023584	1.047197551	-102	60	-10.6134962	-16.58173979	-11.88047688	2.099297027	-0.992618429
-1.72787596	1.047197551	-99	60	-16.12479226	-24.89845449	-16.74273607	-2.591845718	-2.149668444
-1.67551608	1.047197551	-96	60	-9.761873759	-15.23489825	-11.21028364	-1.618398353	2.877340555
-1.6231562	1.047197551	-93	60	-5.853748426	-10.93709462	-7.4666226	-1.339577455	2.341154196
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-1.51843645	1.047197551	-87	60	-3.618109624	-7.685714471	-5.778773722	-1.125870456	1.724813376
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-1.41371669	1.047197551	-81	60	-5.95217161	-8.817696946	-9.11223926	-1.02550191	1.808917774
-1.36135682	1.047197551	-78	60	-8.215058744	-10.2199715	-12.53590652	-0.741283389	2.180265434
-1.30899694	1.047197551	-75	60	-8.850828984	-11.00715574	-12.9251709	-0.336621659	-3.108498351
-1.25663706	1.047197551	-72	60	-5.666154842	-11.91774585	-6.841196988	1.97417E-05	-2.585904656
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-1.09955743	1.047197551	-63	60	-3.260287269	-21.69314882	-3.32303991	2.93311471	-2.345062418
-1.04719755	1.047197551	-60	60	-5.831769626	-11.35497405	-7.260474512	-2.778094619	-1.934137152
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-0.89011792	1.047197551	-51	60	1.015136149	-1.070292445	-3.171823025	-2.235116216	-0.355390225
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-0.73303829	1.047197551	-42	60	-0.047600039	-2.888272441	-3.234423137	-1.11844523	1.899052995
-0.68067841	1.047197551	-39	60	0.112303692	-4.334198891	-1.820546469	-0.586448977	2.670009334
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0.104719755	1.308996939	6	75	-3.068009469	-15.48823852	-3.324166516	3.019928258	0.298628126
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0.20943951	1.308996939	12	75	-2.376979454	-13.02000643	-2.768647224	-1.153188731	1.997695021
0.261799388	1.308996939	15	75	-1.075405466	-12.1904013	-1.425069224	-0.560417418	2.860974492
0.314159265	1.308996939	18	75	-0.561707865	-14.4076429	-0.744646585	0.126777464	-2.714810209
0.366519143	1.308996939	21	75	-0.950254915	-17.52043961	-1.046992163	1.334631433	-2.014124011
0.41887902	1.308996939	24	75	-1.311340467	-14.26780167	-1.536956605	2.651060301	-1.310676189
0.471238898	1.308996939	27	75	-1.767303559	-10.47732652	-2.395061	-2.88585307	-0.65799412
0.523598776	1.308996939	30	75	-2.745420541	-8.735866551	-4.004905914	-2.329895367	-0.011506642
0.575958653	1.308996939	33	75	-4.296608117	-8.570690671	-6.329193653	-1.792266642	0.693416259
0.628318531	1.308996939	36	75	-6.143712288	-9.243638003	-9.066198764	-1.215211142	1.606503585
0.680678408	1.308996939	39	75	-6.387802962	-10.25960957	-8.679529434	-0.628601056	2.725564988
0.733038286	1.308996939	42	75	-5.368831354	-11.94258885	-6.448454024	-0.068887969	-2.793900814
0.785398163	1.308996939	45	75	-5.413243339	-15.00057298	-5.919188001	0.519331126	-2.188007148
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0.890117919	1.308996939	51	75	-6.301311777	-21.94569764	-6.421353994	2.727251603	-0.918273532



0.942477796	1.308996939	54	75	-7.54770369	-19.13790169	-7.859790498	-2.544990331	-0.402993232
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1.413716694	1.308996939	81	75	-8.381829545	-11.53285339	-11.25582272	1.491114217	-2.080508408
1.466076572	1.308996939	84	75	-9.419317517	-12.07354358	-12.81751405	1.600260056	-1.968682392
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1.570796327	1.308996939	90	75	-11.29587687	-12.6999696	-16.88291036	1.57329829	-1.36566409
1.623156204	1.308996939	93	75	-9.761431802	-12.06682453	-13.6136502	1.476540265	-0.246001889
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1.780235837	1.308996939	102	75	-6.206660091	-9.608474104	-8.857840531	1.499196934	1.069265954
1.832595715	1.308996939	105	75	-6.436548603	-9.644826838	-9.257503241	1.523042336	1.080417512
1.884955592	1.308996939	108	75	-6.973180307	-10.84909388	-9.262054678	1.499577626	0.779993989
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2.094395102	1.308996939	120	75	-9.446832364	-16.36888519	-10.43301023	-0.105091749	-1.112484691
2.14675498	1.308996939	123	75	-6.817636509	-17.15638611	-7.239153158	0.020217415	-1.208837795
2.199114858	1.308996939	126	75	-7.91193129	-22.99215737	-8.048890636	0.527756016	-1.507888419
2.251474735	1.308996939	129	75	-8.132501025	-21.56861326	-8.333969723	2.323947805	-2.480726563
2.303834613	1.308996939	132	75	-3.893470047	-15.20967196	-4.226680109	2.647950238	-3.120849175
2.35619449	1.308996939	135	75	-3.266818841	-13.95185373	-3.654542953	2.55501739	2.84441417
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2.513274123	1.308996939	144	75	-3.301573388	-15.47160038	-3.573406512	0.33049485	0.732372074
2.565634	1.308996939	147	75	-3.943842916	-12.69811799	-4.564758806	-0.353436364	0.18901983
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2.670353756	1.308996939	153	75	0.527582684	-9.667792063	0.091183324	-1.419179135	-1.499599196
2.722713633	1.308996939	156	75	0.814219782	-9.197877187	1.129014227	-2.025895956	-2.056197193
2.775073511	1.308996939	159	75	0.898046074	-8.516409939	1.042074425	-2.657958673	-2.858273184
2.827433388	1.308996939	162	75	1.040197172	-8.508089639	2.184893493	2.30533464	2.581464886
2.879793266	1.308996939	165	75	1.102044774	-9.849036241	2.347755142	3.310801043	1.813518476
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-3.0368729	1.570796327	-174	90	-4.098183324	-10.83522691	-5.132812951	1.430899372	-0.839024953
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0.471238898	1.570796327	27	90	-1.789939225	-14.26597348	-2.042728738	3.059007325	-1.343811971
0.523598776	1.570796327	30	90	-2.626688962	-15.68277268	-2.847056556	-3.072111393	-0.712478875
0.575958653	1.570796327	33	90	-3.831986055	-18.56138668	-3.980667618	-2.829566833	-0.010021507
0.628318531	1.570796327	36	90	-4.702710679	-25.16684597	-4.7419146	-2.157183521	0.755312955
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0.733038286	1.570796327	42	90	-4.590189356	-16.15805653	-4.90394454	0.010531854	2.242468154
0.785398163	1.570796327	45	90	-4.380061609	-14.69472847	-4.804040384	0.249266051	2.855402444
0.837758041	1.570796327	48	90	-5.042310108	-16.45138032	-5.368199225	0.517675431	-2.91416914
0.890117919	1.570796327	51	90	-6.541955987	-21.51199624	-6.682492167	0.931036115	-2.447459467
0.942477796	1.570796327	54	90	-8.418960995	-32.83990792	-8.434681823	1.946028871	-1.970732915
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1.047197551	1.570796327	60	90	-9.157367192	-19.25242983	-9.604506892	-1.425659172	-0.669339143
1.099557429	1.570796327	63	90	-7.115618854	-16.05817746	-7.708306486	-1.18522977	-0.05918346
1.151917306	1.570796327	66	90	-5.74985718	-14.74996385	-6.334193556	-1.008920558	0.432262941
1.204277184	1.570796327	69	90	-5.343252262	-14.43780527	-5.914154109	-0.821878435	0.891955069
1.256637061	1.570796327	72	90	-5.612478817	-14.51789219	-6.210624624	-0.610260607	1.295304272

1.308996939	1.570796327	75	90	-6.743237608	-14.72520372	-7.496046164	-0.426262817	1.570247972
1.361356817	1.570796327	78	90	-8.811802259	-15.01730467	-10.00126442	-0.337909871	1.711735558
1.413716694	1.570796327	81	90	-10.89422708	-15.09029845	-12.97404863	-0.358234282	1.833043394
1.466076572	1.570796327	84	90	-11.89656084	-14.63633594	-15.19536283	-0.402320215	2.119359498
1.518436449	1.570796327	87	90	-12.48352696	-14.09361135	-17.5730828	-0.372130903	2.532871061
1.570796327	1.570796327	90	90	-13.71761036	-14.02637662	-25.35262365	-0.258849412	-2.791012075
1.623156204	1.570796327	93	90	-12.85782937	-14.46709556	-17.94920885	-0.117987446	-1.021354407
1.675516082	1.570796327	96	90	-11.01624317	-15.09031215	-13.17274543	-0.03427132	-0.82687198
1.72787596	1.570796327	99	90	-10.71853118	-15.48038332	-12.48413154	-0.059467595	-0.923197953
1.780235837	1.570796327	102	90	-10.2511401	-15.42656953	-11.82322964	-0.13837901	-1.122210063
1.832595715	1.570796327	105	90	-8.569128852	-15.27966926	-9.610915631	-0.17185302	-1.109464147
1.884955592	1.570796327	108	90	-6.85065175	-15.42905673	-7.499241018	-0.120175239	-0.954334692
1.93731547	1.570796327	111	90	-6.656450158	-15.88760018	-7.208501574	0.012790226	-0.863671564
1.989675347	1.570796327	114	90	-8.972517601	-16.58700562	-9.798519856	0.217103554	-0.980803836
2.042035225	1.570796327	117	90	-12.20101937	-17.49000912	-13.72449128	0.474338918	-1.613854533
2.094395102	1.570796327	120	90	-12.11218687	-18.46383954	-13.25660323	0.684812693	-2.327249031
2.14675498	1.570796327	123	90	-12.93500887	-19.28555105	-14.07976009	0.621325135	-2.746832958
2.199114858	1.570796327	126	90	-12.88309318	-18.11705731	-14.42989609	0.246073904	2.621362595
2.251474735	1.570796327	129	90	-8.103215419	-15.48148443	-8.980372426	0.029603262	1.999046109
2.303834613	1.570796327	132	90	-5.453453736	-14.79026032	-5.991379516	0.068365359	1.727397995
2.35619449	1.570796327	135	90	-5.37483208	-17.38967417	-5.656882199	0.314512007	1.314659641
2.408554368	1.570796327	138	90	-4.904519827	-24.57471699	-4.951630357	0.98989561	0.642266172
2.460914245	1.570796327	141	90	-3.006317775	-27.84473765	-3.020595401	2.980040464	0.091018584
2.513274123	1.570796327	144	90	-2.529619188	-22.94859933	-2.569234727	-2.187387056	-0.350295633
2.565634	1.570796327	147	90	-3.016924908	-22.0084923	-3.072054035	-1.385599585	-0.962020436
2.617993878	1.570796327	150	90	-1.798724821	-22.65514465	-1.834528801	-0.2800392	-1.669429166
2.670353756	1.570796327	153	90	-0.210853808	-19.28063315	-0.264992844	0.686172833	-2.223002157
2.722713633	1.570796327	156	90	0.212814627	-18.53064792	0.154422487	1.107395907	-2.805577844
2.775073511	1.570796327	159	90	0.664475393	-24.34978014	0.650765184	1.592178538	2.761025958
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3.036872899	1.570796327	174	90	1.242261669	-13.15411954	1.081508684	0.6295149	-0.882521571
3.089232776	1.570796327	177	90	0.474950367	-9.748204874	0.041477233	-0.07320964	-1.833538284
3.141592654	1.570796327	180	90	1.25517547	-8.126753235	0.723164646	-0.552645669	-2.619696279
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2.617993878	1.832595715	150	105	-2.012797596	-10.41874888	-2.689815946	0.610033066	3.05394654
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2.827433388	1.832595715	162	105	0.314750147	-13.78622817	0.142455117	-2.140302272	1.055092559
2.879793266	1.832595715	165	105	0.680576672	-10.34256557	0.970934421	-3.046622186	0.468551769
2.932153143	1.832595715	168	105	0.862551105	-8.174146353	1.519902578	2.65725181	-0.046079782
2.984513021	1.832595715	171	105	1.092071705	-8.425304209	0.913722947	2.081459589	-0.552847579
3.036872899	1.832595715	174	105	0.048400669	-9.245173876	-0.495257923	1.20300755	-1.204857689
3.089232776	1.832595715	177	105	0.36089811	-6.764205199	-0.575000692	0.361344022	-1.963063129
3.141592654	1.832595715	180	105	1.255175758	-4.891119286	0.046891138	-0.103281004	-2.530763999
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2.565634	2.094395102	147	120	-2.551343219	-11.40071319	-3.157826215	-1.21178761	1.52310295
2.617993878	2.094395102	150	120	-1.106664996	-8.542934821	-1.970945969	-1.692027089	1.232044191
2.670353756	2.094395102	153	120	-0.395803913	-6.718219342	-1.549073841	-1.935381742	0.977645161
2.722713633	2.094395102	156	120	-0.448597866	-6.783533889	-1.598066824	-2.241708652	0.629564823
2.775073511	2.094395102	159	120	-0.058726635	-7.219597616	-0.986067776	-2.846412251	0.181276856
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2.932153143	2.094395102	168	120	1.065442392	-2.479495473	0.03171484	2.057195262	-0.768821497
2.984513021	2.094395102	171	120	0.33626073	-4.011129393	-1.653155147	1.644176211	-1.159723168
3.036872899	2.094395102	174	120	-0.533036806	-5.03902093	-2.432895952	0.983280462	-1.680577688
3.089232776	2.094395102	177	120	0.461050497	-3.545576574	-1.739380046	0.421574434	-2.113769013
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-1.88495559	2.617993878	-108	150	-2.888611065	-3.698529055	-10.58071112	-2.436499555	-1.158869113
-1.83259571	2.617993878	-105	150	-3.171484836	-3.69700317	-12.60355912	-2.526386026	-1.393729126
-1.78023584	2.617993878	-102	150	-3.594433196	-3.926810663	-14.92108945	-2.607788976	-1.743560904
-1.72787596	2.617993878	-99	150	-3.747921874	-3.996181208	-16.3002475	-2.704341338	-1.854509367
-1.67551608	2.617993878	-96	150	-3.482003635	-3.675938898	-17.07988571	-2.819503743	-1.559333051
-1.6231562	2.617993878	-93	150	-2.894678796	-3.071611695	-16.88260208	-2.940865273	-1.164318842
-1.57079633	2.617993878	-90	150	-2.365709038	-2.523111482	-16.85190097	-3.063387482	-0.942204279
-1.51843645	2.617993878	-87	150	-2.267234864	-2.411613635	-17.12203397	3.088893809	-0.967705298
-1.46607657	2.617993878	-84	150	-2.855748618	-3.038369483	-16.70907825	2.939529503	-1.220251563
-1.41371669	2.617993878	-81	150	-4.228508402	-4.516768081	-16.15184519	2.769703461	-1.518910343
-1.36135682	2.617993878	-78	150	-6.278637717	-6.612638414	-17.58493721	2.609232836	-1.820426712
-1.30899694	2.617993878	-75	150	-8.404735356	-8.559896136	-22.95210836	2.549965734	-2.351739286
-1.25663706	2.617993878	-72	150	-8.986030783	-9.06204153	-26.59307384	2.644251841	2.458196724
-1.20427718	2.617993878	-69	150	-7.81083307	-7.923242323	-23.73673897	2.722979414	1.861826294
-1.15191731	2.617993878	-66	150	-6.592869072	-6.682252837	-23.50274097	2.667343639	2.260209189
-1.09955743	2.617993878	-63	150	-5.78766069	-6.080232988	-17.64863671	2.513713399	2.716938878
-1.04719755	2.617993878	-60	150	-5.113952537	-5.95811418	-12.64278563	2.323637511	2.609585957
-0.99483767	2.617993878	-57	150	-4.538512589	-6.01449534	-9.942653339	2.143769614	2.326200419
-0.9424778	2.617993878	-54	150	-4.184099872	-6.053974063	-8.745262767	1.98053784	1.996811265
-0.89011792	2.617993878	-51	150	-4.035960004	-5.973483128	-8.474139053	1.814643236	1.702275217
-0.83775804	2.617993878	-48	150	-4.047846128	-5.830298252	-8.776297468	1.648173266	1.514999019
-0.78539816	2.617993878	-45	150	-4.202237737	-5.876832362	-9.151410055	1.505497185	1.439744155
-0.73303829	2.617993878	-42	150	-4.482135688	-6.317289284	-9.108568435	1.392153732	1.359924946
-0.68067841	2.617993878	-39	150	-4.820151866	-7.018133606	-8.830493277	1.280177763	1.15247764
-0.62831853	2.617993878	-36	150	-5.083949721	-7.5729037	-8.686828549	1.139833004	0.833846302

-0.57595865	2.617993878	-33	150	-5.427530798	-7.817743326	-9.161440454	0.992605309	0.504356922
-0.52359878	2.617993878	-30	150	-6.388467677	-8.194858727	-11.07012757	0.895494359	0.242387418
-0.4712389	2.617993878	-27	150	-8.229160709	-9.174544709	-15.31504199	0.886568748	0.143136819
-0.41887902	2.617993878	-24	150	-10.09119035	-10.47953918	-20.76954114	0.97897073	0.619467002
-0.36651914	2.617993878	-21	150	-10.3378711	-11.12128182	-18.16163789	1.124772159	1.209715145
-0.31415927	2.617993878	-18	150	-9.42574254	-10.83897914	-14.98891037	1.23003609	1.158729116
-0.26179939	2.617993878	-15	150	-8.795297812	-10.48039305	-13.72223522	1.303574918	1.048016712
-0.20943951	2.617993878	-12	150	-8.933375454	-10.59999346	-13.89955076	1.421132137	1.107135281
-0.15707963	2.617993878	-9	150	-9.198692089	-10.87532073	-14.1435443	1.602868349	1.401520666
-0.10471976	2.617993878	-6	150	-8.806435265	-10.79722045	-13.15146973	1.750059867	1.701001757
-0.05235988	2.617993878	-3	150	-8.366942973	-10.60758387	-12.31332341	1.746850454	1.799481227
-4.4409E-16	2.617993878	0	150	-8.30811766	-10.44982696	-12.40529167	1.581996448	1.74484478
0.052359878	2.617993878	3	150	-7.960629057	-9.769436502	-12.63760794	-1.796736766	-1.495133713
0.104719755	2.617993878	6	150	-6.74230628	-8.31230935	-11.92252301	-1.961904259	-1.513430988
0.157079633	2.617993878	9	150	-4.994267133	-6.587400807	-10.1218316	-2.005493842	-1.458709497
0.20943951	2.617993878	12	150	-3.376956568	-5.148444679	-8.12709502	-1.994212008	-1.438043533
0.261799388	2.617993878	15	150	-2.341595472	-4.32511963	-6.699144383	-2.015360457	-1.491492303
0.314159265	2.617993878	18	150	-1.851527477	-4.005841247	-5.929001959	-2.128557391	-1.600121884
0.366519143	2.617993878	21	150	-1.414528401	-3.496586514	-5.606961349	-2.321514094	-1.721290675
0.41887902	2.617993878	24	150	-0.712258952	-2.417099859	-5.597834567	-2.477934342	-1.81069691
0.471238898	2.617993878	27	150	-0.058491488	-1.37580704	-5.88145809	-2.518129611	-1.84672105
0.523598776	2.617993878	30	150	0.145695415	-0.94199659	-6.399589732	-2.468975651	-1.832487902
0.575958653	2.617993878	33	150	-0.2118328	-1.239199427	-6.975982999	-2.389363682	-1.781546591
0.628318531	2.617993878	36	150	-0.99550887	-2.13465552	-7.364686228	-2.328409339	-1.712771972
0.680678408	2.617993878	39	150	-1.880185939	-3.302997227	-7.418556791	-2.305228967	-1.653912092
0.733038286	2.617993878	42	150	-2.51691646	-4.311539638	-7.221482819	-2.294407662	-1.629248493
0.785398163	2.617993878	45	150	-2.778626604	-4.854242032	-6.981553798	-2.260166804	-1.639461749
0.837758041	2.617993878	48	150	-2.717571958	-4.822507585	-6.873068487	-2.223968969	-1.666885862
0.890117919	2.617993878	51	150	-2.412069089	-4.260877658	-7.012652873	-2.240557702	-1.701985411
0.942477796	2.617993878	54	150	-1.942902329	-3.371103154	-7.467401017	-2.305557408	-1.762160892
0.994837674	2.617993878	57	150	-1.542288344	-2.600459495	-8.192920403	-2.358767638	-1.879957273
1.047197551	2.617993878	60	150	-1.594305085	-2.473605165	-8.963011786	-2.35933297	-2.057574038
1.099557429	2.617993878	63	150	-2.339359118	-3.234542137	-9.637989851	-2.302106514	-2.230733666
1.151917306	2.617993878	66	150	-3.719666643	-4.756092864	-10.45003804	-2.193859314	-2.322798189
1.204277184	2.617993878	69	150	-5.395711646	-6.629533365	-11.46334606	-2.032472672	-2.319951941
1.256637061	2.617993878	72	150	-6.810999738	-8.29492148	-12.19558781	-1.791117166	-2.274790506
1.308996939	2.617993878	75	150	-7.401584855	-9.109026193	-12.28175643	-1.451670139	-2.241998836
1.361356817	2.617993878	78	150	-7.126365615	-8.78557629	-12.10841841	-1.097191767	-2.194307374
1.413716694	2.617993878	81	150	-6.679927765	-8.046667465	-12.36637583	-0.842127063	-2.076930309
1.466076572	2.617993878	84	150	-6.601161109	-7.615048491	-13.41619278	-0.702710085	-1.895588577
1.518436449	2.617993878	87	150	-6.802548107	-7.425063799	-15.5464287	-0.635944363	-1.729729985
1.570796327	2.617993878	90	150	-6.822061428	-7.059189032	-19.56810774	-0.585107796	-1.682374693
1.623156204	2.617993878	93	150	-6.317950171	-6.353174481	-27.24496856	-0.522551236	-1.834113092
1.675516082	2.617993878	96	150	-5.444636859	-5.444935708	-47.06811557	-0.469761318	-1.513477594
1.72787596	2.617993878	99	150	-4.445530872	-4.46406802	-28.15221	-0.451832849	0.981263023
1.780235837	2.617993878	102	150	-3.466622149	-3.494562894	-25.39604834	-0.457075418	1.147763259
1.832595715	2.617993878	105	150	-2.804873192	-2.829483382	-25.2838658	-0.45359764	1.871953978
1.884955592	2.617993878	108	150	-2.922987047	-2.963144666	-23.283214	-0.428710764	2.689233618
1.93731547	2.617993878	111	150	-4.267546724	-4.313913593	-24.00647491	-0.39579535	-2.85662411
1.989675347	2.617993878	114	150	-6.849692522	-6.940516217	-23.6908767	-0.379685212	-1.529825054
2.042035225	2.617993878	117	150	-9.503372633	-10.03900014	-18.85764863	-0.380218222	-0.73448429
2.094395102	2.617993878	120	150	-10.74079392	-11.85688441	-17.18774382	-0.287492139	-0.284404552
2.14675498	2.617993878	123	150	-10.6694686	-11.87944567	-16.81049172	-0.022261921	0.153965179
2.199114858	2.617993878	126	150	-10.24705643	-11.76240941	-15.55542937	0.29527254	0.428748416
2.251474735	2.617993878	129	150	-10.59555557	-13.19746667	-14.05667134	0.556226756	0.476915749
2.303834613	2.617993878	132	150	-12.01507769	-17.04076907	-13.65413265	0.535079038	0.526752106
2.35619449	2.617993878	135	150	-13.29457118	-17.69004295	-15.25629248	-0.216991266	0.815182854
2.408554368	2.617993878	138	150	-11.22061932	-12.698474	-16.62013859	-0.437785527	1.519997482
2.460914245	2.617993878	141	150	-9.062952837	-10.31096009	-15.08769573	-0.279363317	2.080972347
2.513274123	2.617993878	144	150	-8.619158011	-9.964467021	-14.36408503	-0.075728545	2.245601409
2.565634	2.617993878	147	150	-8.503103227	-10.01213271	-13.82665837	-0.015074352	2.252421741
2.617993878	2.617993878	150	150	-6.584218316	-8.157218483	-11.75756075	-0.13448955	2.345917714
2.670353756	2.617993878	153	150	-3.389958507	-4.732101907	-9.143615523	-0.148713968	2.549848822
2.722713633	2.617993878	156	150	-0.868100844	-1.903571406	-7.602019746	0.001051771	2.776486549



2.775073511	2.617993878	159	150	0.572443244	-0.141094181	-7.623117411	0.216006076	3.009077424
2.827433388	2.617993878	162	150	1.169664389	0.690348985	-8.639418612	0.393729781	-3.064967235
2.879793266	2.617993878	165	150	1.050725453	0.647604335	-9.472763728	0.449340542	-2.976941374
2.932153143	2.617993878	168	150	0.574567707	0.091886418	-9.205776397	0.351068025	-2.993219494
2.984513021	2.617993878	171	150	0.407001948	-0.19614187	-8.464714663	0.185044461	-2.895479341
3.036872899	2.617993878	174	150	0.571764404	-0.08975468	-7.92721683	0.119405609	-2.578282489
3.089232776	2.617993878	177	150	0.882820972	0.107453129	-6.98186181	0.205615303	-2.18739339
3.141592654	2.617993878	180	150	1.255175639	0.414691667	-6.290839813	0.356681923	-1.955452383

# ANT 2

Frequency=5150(MHz)

MAX GAIN 1.415389617

Phi	Theta	Angle degrees from the vertical	Angle above 30 degrees from the horizon	E Total. dB	E(Phi) . Amp dB	E(Theta) . Amp dB	E(Phi) . Phase	E(Theta) . Phase
-3.14159265	0.523598776	-180	30	-6.899043844	-8.444091622	-12.13711303	2.330459426	-1.887254459
-3.08923278	0.523598776	-177	30	-5.918542145	-7.223769858	-11.77580383	2.489959115	-1.451427351
-3.0368729	0.523598776	-174	30	-5.596659381	-6.190244405	-14.53308576	2.645667778	-0.908750223
-2.98451302	0.523598776	-171	30	-6.036724125	-6.389893598	-17.1101238	2.708105635	0.546018088
-2.93215314	0.523598776	-168	30	-6.151331811	-8.607622279	-9.79679174	2.746108235	1.552694011
-2.87979327	0.523598776	-165	30	-4.877420676	-13.57641297	-5.506896076	3.005753888	1.949904083
-2.82743339	0.523598776	-162	30	-3.805812827	-16.52202051	-4.04462103	-2.210275896	2.237985327
-2.77507351	0.523598776	-159	30	-4.386494972	-12.85089905	-5.053729617	-1.592329594	2.52522631
-2.72271363	0.523598776	-156	30	-7.238325074	-12.26061003	-8.878942762	-1.347144971	2.913016715
-2.67035376	0.523598776	-153	30	-12.38461038	-14.78707945	-16.1018747	-1.076371905	-2.513093963
-2.61799388	0.523598776	-150	30	-14.86349112	-20.10661497	-16.406381	-0.579869292	-0.8885181
-2.565634	0.523598776	-147	30	-13.03381107	-22.98316949	-13.49704944	0.522152232	-0.111897971
-2.51327412	0.523598776	-144	30	-12.47245116	-18.14838605	-13.84308565	0.913484127	0.514541936
-2.46091425	0.523598776	-141	30	-10.86327995	-13.83144378	-13.91612885	0.702043332	1.490392582
-2.40855437	0.523598776	-138	30	-6.612321451	-10.95200908	-8.606219029	0.443223125	2.205276826
-2.35619449	0.523598776	-135	30	-3.101616907	-10.49393845	-3.975634965	0.238660045	2.40566471
-2.30383461	0.523598776	-132	30	-1.028118232	-12.8350269	-1.324483598	0.12111842	2.463638603
-2.25147474	0.523598776	-129	30	-0.327815137	-16.4688001	-0.43472564	0.37758014	2.53524946
-2.19911486	0.523598776	-126	30	-0.660654505	-13.60923669	-0.886691179	0.835494049	2.707507304
-2.14675498	0.523598776	-123	30	-0.82086929	-9.147497117	-1.511413244	0.770364348	3.004528732
-2.0943951	0.523598776	-120	30	-0.240539783	-7.125507838	-1.236222359	0.56327068	-3.006595513
-2.04203522	0.523598776	-117	30	0.00929575	-7.615417353	-0.814567558	0.359720754	-2.88333352
-1.98967535	0.523598776	-114	30	-0.626520566	-10.269446	-1.125645209	0.288582297	-2.823793184
-1.93731547	0.523598776	-111	30	-1.831606853	-12.47166567	-2.223554852	0.641319461	-2.675750638
-1.88495559	0.523598776	-108	30	-2.193752051	-9.758676133	-3.030209219	0.990984615	-2.353465379
-1.83259571	0.523598776	-105	30	-1.210721066	-7.356141415	-2.419286303	0.971670362	-2.033598221
-1.78023584	0.523598776	-102	30	-0.560325994	-7.373025036	-1.574826966	0.855373858	-1.885039736
-1.72787596	0.523598776	-99	30	-0.692839114	-9.525508261	-1.301830586	0.815292957	-1.835221978
-1.67551608	0.523598776	-96	30	-0.79143408	-11.55892786	-1.171537245	1.062254839	-1.777205782
-1.6231562	0.523598776	-93	30	-0.003678045	-9.652253148	-0.502115104	1.338052119	-1.685988887
-1.57079633	0.523598776	-90	30	0.854342356	-7.038939286	0.67518303	1.314911711	-1.63273103
-1.51843645	0.523598776	-87	30	0.995294334	-6.017915831	1.719499338	1.184810951	-1.666028763
-1.46607657	0.523598776	-84	30	0.924853079	-6.534541838	2.289897041	1.068011346	-1.773440541
-1.41371669	0.523598776	-81	30	1.050458907	-7.695693571	2.44953587	1.031705311	-1.921403566
-1.36135682	0.523598776	-78	30	1.223517654	-8.123868203	2.350649087	1.058637602	-2.081907239
-1.30899694	0.523598776	-75	30	1.116859384	-7.617128132	2.073919983	1.005792733	-2.250335959
-1.25663706	0.523598776	-72	30	1.186890811	-7.201053275	1.655663292	0.805680816	-2.443316611
-1.20427718	0.523598776	-69	30	0.924622497	-7.218463134	1.132011922	0.501463461	-2.676496936
-1.15191731	0.523598776	-66	30	0.952709919	-7.534678796	0.521421881	0.188360202	-2.951611843
-1.09955743	0.523598776	-63	30	0.448283099	-8.416419719	-0.155906639	-0.055613078	3.01635459
-1.04719755	0.523598776	-60	30	-0.293803541	-10.30326285	-0.750328683	-0.246815866	2.661170966
-0.99483767	0.523598776	-57	30	-0.768939468	-13.28615243	-1.019273322	-0.488687287	2.284757778
-0.9424778	0.523598776	-54	30	-0.83819399	-16.56468035	-0.955957446	-0.901150145	1.922785636
-0.89011792	0.523598776	-51	30	-0.734886241	-18.78525295	-0.803462205	-1.371900199	1.587907517
-0.83775804	0.523598776	-48	30	-0.682173622	-21.19825459	-0.720909335	-1.65316148	1.266760297
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0.41887902	0.785398163	24	45	-3.502861533	-4.135819478	-12.179592	2.689143268	-2.854097211
0.471238898	0.785398163	27	45	-3.199203023	-3.62186484	-13.5267331	2.220403421	-3.019845736
0.523598776	0.785398163	30	45	-3.124805269	-3.201314307	-20.70371934	1.856564938	-3.071033378
0.575958653	0.785398163	33	45	-3.49347857	-3.535368479	-23.67115563	1.57883219	-0.269217284
0.628318531	0.785398163	36	45	-4.3986601	-4.822804757	-14.71170971	1.325646762	-0.372405824
0.680678408	0.785398163	39	45	-5.60503905	-6.551419575	-12.68682505	1.036979243	-0.74491448
0.733038286	0.785398163	42	45	-5.968515309	-7.497428431	-11.24458308	0.74562837	-1.317111288
0.785398163	0.785398163	45	45	-5.181280726	-7.369493964	-9.206491615	0.584783721	-1.777117952
0.837758041	0.785398163	48	45	-4.774432419	-7.210725209	-8.4463297	0.550403231	-2.090225692
0.890117919	0.785398163	51	45	-5.499154272	-7.856329124	-9.27848961	0.529343224	-2.445980609
0.942477796	0.785398163	54	45	-6.702928961	-9.394956301	-10.05668378	0.42888801	-2.979547345
0.994837674	0.785398163	57	45	-6.903863493	-10.86522588	-9.134417879	0.254216344	2.777590613
1.047197551	0.785398163	60	45	-6.404914707	-11.51317056	-8.006632644	0.18764973	2.402455118
1.099557429	0.785398163	63	45	-6.139190342	-12.20817527	-7.372568424	0.342748079	2.0725412
1.151917306	0.785398163	66	45	-5.945158968	-13.99922175	-6.684455393	0.673262495	1.766335392
1.204277184	0.785398163	69	45	-5.629603282	-17.36711126	-5.93091211	1.211137056	1.545611075
1.256637061	0.785398163	72	45	-5.402694535	-19.92528175	-5.558759518	1.983176937	1.399137879
1.308996939	0.785398163	75	45	-5.374651835	-20.33275416	-5.515581199	2.318735652	1.256169618
1.361356817	0.785398163	78	45	-5.057985334	-19.31670708	-5.224015576	1.980466025	1.094548709
1.413716694	0.785398163	81	45	-4.119132919	-15.60412063	-4.43916146	1.763142067	0.993375121
1.466076572	0.785398163	84	45	-3.224555154	-13.21709097	-3.682960206	1.881120523	1.025829663
1.518436449	0.785398163	87	45	-2.911245431	-12.89043801	-3.371138438	2.11366862	1.193314033
1.570796327	0.785398163	90	45	-3.220100269	-15.43345363	-3.48914965	2.303135017	1.468516701
1.623156204	0.785398163	93	45	-3.872572316	-26.83258359	-3.894595692	1.841515455	1.827472139
1.675516082	0.785398163	96	45	-4.115920918	-15.68431004	-4.429637001	0.000784741	2.26527897
1.72787596	0.785398163	99	45	-3.426376614	-9.009169377	-4.832089053	0.107741116	2.77367841
1.780235837	0.785398163	102	45	-2.358584501	-5.705044424	-5.056885552	0.351800564	-2.971071142
1.832595715	0.785398163	105	45	-1.462290416	-3.648580518	-5.490438634	0.657240407	-2.419951588
1.884955592	0.785398163	108	45	-0.877744513	-2.351879621	-6.286453564	0.984007051	-1.823921014
1.93731547	0.785398163	111	45	-0.769015777	-1.902112065	-7.158427907	1.330827907	-1.180706407
1.989675347	0.785398163	114	45	-1.295207365	-2.298176429	-8.152012759	1.732593143	-0.519559743
2.042035225	0.785398163	117	45	-2.265143237	-3.240875983	-9.228413652	2.217659241	0.207934056
2.094395102	0.785398163	120	45	-3.146632514	-4.412676321	-9.117643	2.791487935	0.987440053
2.14675498	0.785398163	123	45	-3.42051099	-5.370543317	-7.836530464	-2.805649894	1.628577572
2.199114858	0.785398163	126	45	-2.802575072	-5.050443611	-6.738272959	-2.063089457	2.141080554
2.251474735	0.785398163	129	45	-1.735103606	-3.794334244	-5.96490494	-1.439685135	2.626380016
2.303834613	0.785398163	132	45	-0.959503683	-2.937892747	-5.325937479	-0.926585439	3.087309015
2.35619449	0.785398163	135	45	-0.831823988	-2.706224639	-5.384587619	-0.439740743	-2.797544642
2.408554368	0.785398163	138	45	-1.569663289	-2.946937907	-7.227754585	0.036398501	-2.44338354
2.460914245	0.785398163	141	45	-3.326274102	-3.875119309	-12.5811514	0.510607043	-2.032681435
2.513274123	0.785398163	144	45	-5.332465718	-5.377141216	-25.23193336	1.060808639	-0.448545797
2.565634	0.785398163	147	45	-5.653479005	-6.048124248	-16.26508189	1.697365508	1.278684818
2.617993878	0.785398163	150	45	-4.875614995	-5.50408447	-13.5810622	2.219997839	2.049475371
2.670353756	0.785398163	153	45	-4.171186719	-5.141453526	-11.15622319	2.603681747	2.851333061
2.722713633	0.785398163	156	45	-3.667743974	-5.250948912	-8.817796788	2.965004018	-2.899099327
2.775073511	0.785398163	159	45	-3.77560897	-5.552303221	-8.515429206	-2.95200627	-2.52961521
2.827433388	0.785398163	162	45	-4.926110807	-6.502913202	-10.09075468	-2.613501569	-2.076708653
2.879793266	0.785398163	165	45	-6.694460442	-8.91682328	-10.66805399	-2.24755249	-1.386616424
2.932153143	0.785398163	168	45	-7.041934535	-11.98863558	-8.717692335	-1.712155801	-0.867945967
2.984513021	0.785398163	171	45	-6.523462877	-12.56144828	-7.767070511	-1.236977857	-0.597872617
3.036872899	0.785398163	174	45	-7.075854706	-11.35603383	-9.104805703	-1.174119756	-0.329918799
3.089232776	0.785398163	177	45	-7.639620153	-9.562142855	-12.10460687	-1.174344578	0.177963239
3.141592654	0.785398163	180	45	-6.899044067	-7.964360594	-13.52387591	-0.952500674	0.833180874
-3.14159265	1.047197551	-180	60	-6.899044107	-7.93039961	-13.64828067	2.055892569	-2.816496544
-3.08923278	1.047197551	-177	60	-6.453302664	-7.374374907	-13.64060861	2.648175615	-2.910233975
-3.0368729	1.047197551	-174	60	-6.162115536	-7.65426738	-11.52656391	-2.901240273	2.80708404
-2.98451302	1.047197551	-171	60	-4.809998147	-6.874579481	-9.030993868	-2.00162173	2.473358772
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-2.77507351	1.047197551	-159	60	-10.13468434	-10.74641546	-18.9491976	0.258315134	-2.025636045
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-2.67035376	1.047197551	-153	60	-8.339529932	-9.142201382	-16.06715106	2.033622801	0.779488057
-2.61799388	1.047197551	-150	60	-6.492391555	-8.685063702	-10.51080469	2.661534625	1.050423252
-2.565634	1.047197551	-147	60	-5.27780105	-7.223425077	-9.701609489	-3.08740582	1.267782666
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-2.35619449	1.047197551	-135	60	-13.50382952	-13.86977952	-24.42914538	-1.288968818	-2.405155483
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-2.14675498	1.047197551	-123	60	-8.596462311	-18.4444655	-9.071258867	-2.993016432	1.220349377
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-1.98967535	1.047197551	-114	60	-3.935042902	-15.06980392	-4.283053567	-0.348188047	1.873337307
-1.93731547	1.047197551	-111	60	-2.70756007	-14.83918377	-2.981885465	-0.443576013	1.992165813
-1.88495559	1.047197551	-108	60	-2.570044109	-14.38943593	-2.865529233	-0.247761077	2.082504902
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-1.36135682	1.047197551	-78	60	0.319297213	-10.91584013	-0.020442919	-0.56367767	2.519339885
-1.30899694	1.047197551	-75	60	0.277408237	-10.27030258	-0.123364121	-0.577980661	2.345688082
-1.25663706	1.047197551	-72	60	0.04889278	-10.28195868	-0.373429687	-0.715068042	2.137372401
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-1.15191731	1.047197551	-66	60	-0.157743265	-10.26841129	-0.603194011	-1.359089428	1.644739933
-1.09955743	1.047197551	-63	60	-0.255675756	-9.648546259	-0.786262683	-1.600374802	1.356867682
-1.04719755	1.047197551	-60	60	-0.627424598	-9.190645908	-1.278464492	-1.782036733	1.020573471
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-0.83775804	1.047197551	-48	60	-1.258919895	-6.24870944	-2.914535494	2.734415758	-1.044464306
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-0.73303829	1.047197551	-42	60	-1.248972559	-4.829571085	-3.755244976	1.979589158	-2.058834609
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-0.36651914	1.047197551	-21	60	-5.706829239	-6.765541661	-12.35550003	-2.080777668	-0.53192934
-0.31415927	1.047197551	-18	60	-6.294508031	-7.526015298	-12.36919421	-2.685653791	-1.285291564
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0.104719755	1.047197551	6	60	-9.512132112	-10.69078185	-15.75213236	0.452730159	1.354806071
0.157079633	1.047197551	9	60	-11.20560348	-13.53750254	-15.02025304	-0.440734165	0.695414216
0.20943951	1.047197551	12	60	-10.97405308	-12.92434378	-15.3896167	-1.725924383	0.076610488
0.261799388	1.047197551	15	60	-8.342732812	-9.042344818	-16.6171145	-2.532979952	-0.505638735
0.314159265	1.047197551	18	60	-6.64555759	-6.921498023	-18.75248701	-3.070921451	-1.020241626
0.366519143	1.047197551	21	60	-5.935720403	-6.061796814	-21.37011084	2.697174279	-1.343766437
0.41887902	1.047197551	24	60	-5.359319355	-5.472542433	-21.25430145	2.172804151	-1.094675174
0.471238898	1.047197551	27	60	-4.405063637	-4.760979134	-15.44618024	1.714166469	-0.786691208
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0.575958653	1.047197551	33	60	-3.51411405	-5.313387833	-8.20960602	1.209571533	-0.882338466
0.628318531	1.047197551	36	60	-5.353613717	-8.078475459	-8.669440229	1.133456489	-1.148417648
0.680678408	1.047197551	39	60	-9.157987829	-13.87762705	-10.94491858	1.103566908	-1.83301496
0.733038286	1.047197551	42	60	-9.058684102	-29.25649695	-9.100379307	0.587728967	-2.843430957
0.785398163	1.047197551	45	60	-5.494337685	-20.11611255	-5.646816125	-1.693338547	2.845314629
0.837758041	1.047197551	48	60	-3.37820565	-14.50968115	-3.72649054	-2.025709525	2.392103381
0.890117919	1.047197551	51	60	-1.634677813	-9.974983681	-2.322868809	-2.382793451	1.940519317
0.942477796	1.047197551	54	60	0.402305759	-5.862189583	-0.76873477	-2.583318044	1.547705407
0.994837674	1.047197551	57	60	0.602106921	-3.296300472	0.623801454	-2.649413059	1.257367213
1.047197551	1.047197551	60	60	1.101937158	-2.409634816	1.528958565	-2.652060164	1.045354895
1.099557429	1.047197551	63	60	1.180870809	-2.912353312	1.822319696	-2.630856111	0.882969944
1.151917306	1.047197551	66	60	0.864464788	-4.383135923	1.332670695	-2.606240077	0.751805142
1.204277184	1.047197551	69	60	0.735931429	-6.429926252	-0.190223529	-2.577338522	0.621035673
1.256637061	1.047197551	72	60	-1.872214822	-8.927963485	-2.824958563	-2.50554687	0.411810602
1.308996939	1.047197551	75	60	-4.583135697	-11.90207186	-5.473684024	-2.307384899	-0.00896586
1.361356817	1.047197551	78	60	-5.07908993	-14.40362114	-5.61863693	-1.906257684	-0.505163048
1.413716694	1.047197551	81	60	-4.325088516	-14.75015409	-4.737903065	-1.473884141	-0.77493421
1.466076572	1.047197551	84	60	-4.517712006	-13.91899085	-5.047207475	-0.326812693	-0.943356105
1.518436449	1.047197551	87	60	-5.633969302	-12.8583477	-6.546329103	-0.961289804	-1.219836639
1.570796327	1.047197551	90	60	-5.673962632	-11.47086712	-7.000551003	-0.713080243	-1.674898699
1.623156204	1.047197551	93	60	-4.102560424	-10.19550548	-5.328098095	-0.528431065	-1.967307748
1.675516082	1.047197551	96	60	-2.948274456	-9.865421708	-3.935703763	-0.437205603	-1.995715135
1.72787596	1.047197551	99	60	-3.102656822	-10.81619477	-3.908192802	-0.395606988	-1.904027591
1.780235837	1.047197551	102	60	-5.044184645	-12.97590561	-5.806568927	-0.32681936	-1.790133684
1.832595715	1.047197551	105	60	-9.924695196	-16.41603885	-11.02786243	-0.186993956	-1.760729006
1.884955592	1.047197551	108	60	-18.69261235	-23.16474339	-20.61116169	-0.223793425	-2.929114353
1.93731547	1.047197551	111	60	-11.17435329	-22.40651414	-11.51433571	-1.897085104	2.566910964
1.989675347	1.047197551	114	60	-7.00811184	-13.76697231	-8.036891299	-1.950981445	2.778349235
2.042035225	1.047197551	117	60	-5.772908698	-10.34979246	-7.634346824	-1.630068535	-3.137268801
2.094395102	1.047197551	120	60	-6.264497472	-8.928658868	-9.650931643	-1.119836382	-2.612319641
2.14675498	1.047197551	123	60	-6.707747961	-7.926323871	-12.82211594	-0.529921487	-1.699778418
2.199114858	1.047197551	126	60	-6.510179826	-7.706748182	-12.69320406	0.045030756	-0.651993904
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2.35619449	1.047197551	135	60	-5.413744293	-6.713694517	-11.28609458	2.200244442	3.058505335
2.408554368	1.047197551	138	60	-3.571428851	-6.144880452	-7.067484177	2.731962273	-2.688057414
2.460914245	1.047197551	141	60	-3.174300804	-6.255398317	-6.11493884	-2.983381043	-2.158377707
2.513274123	1.047197551	144	60	-3.335962211	-6.34062063	-6.351911043	-2.404307883	-1.495111055
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2.670353756	1.047197551	153	60	-6.087331008	-11.15362346	-7.707896662	-0.272086143	0.578861575
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2.827433388	1.047197551	162	60	-4.698618905	-9.319152495	-6.536877862	2.126802294	2.802157131
2.879793266	1.047197551	165	60	-5.940085054	-9.288225535	-8.636939063	2.471841789	-2.867082488
2.932153143	1.047197551	168	60	-7.581223599	-11.41023835	-9.902941225	2.729029332	-1.90875372
2.984513021	1.047197551	171	60	-7.458676539	-14.54143523	-8.404820267	-3.021024254	-1.195451831
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2.722713633	1.308996939	156	75	-7.706350201	-11.73426168	-9.892795222	-2.372612277	-0.546057186
2.775073511	1.308996939	159	75	-10.61709224	-13.50207972	-13.75642819	-1.542079911	0.864244768
2.827433388	1.308996939	162	75	-8.660508972	-17.25363721	-9.306731404	-0.58417642	1.906931928
2.879793266	1.308996939	165	75	-8.209441538	-16.38718119	-8.926168889	0.955059204	2.423053123
2.932153143	1.308996939	168	75	-9.260560122	-12.17644095	-12.36737766	1.746155193	-3.105555139
2.984513021	1.308996939	171	75	-9.276436267	-11.8147043	-12.81640066	2.378204813	-1.969280083
3.036872899	1.308996939	174	75	-9.240716813	-12.57999199	-11.94521605	-2.9060423	-1.304378859
3.089232776	1.308996939	177	75	-8.204166448	-9.882900521	-13.14455352	-1.9122229	-0.692223452
3.141592654	1.308996939	180	75	-6.899044158	-8.341292234	-12.38767343	-1.224844662	-0.115912459
-3.14159265	1.570796327	-180	90	-6.899044158	-9.205466801	-10.74979242	1.755422586	2.714964336
-3.08923278	1.570796327	-177	90	-7.36943323	-11.53069451	-9.470777517	2.896070056	-3.102530565
-3.0368729	1.570796327	-174	90	-5.007366479	-6.255077142	-11.03300039	-2.204031193	-2.564507709
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-2.87979327	1.570796327	-165	90	-5.021876403	-6.419899205	-10.62485317	-0.620310644	-0.374093371
-2.82743339	1.570796327	-162	90	-5.363046452	-6.615531006	-11.37436803	0.192001728	0.600105237
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-2.72271363	1.570796327	-156	90	-4.025995042	-11.63184488	-4.853809039	1.220874412	1.875150844
-2.67035376	1.570796327	-153	90	-3.901784937	-13.43423034	-4.414559236	2.487021575	2.277059012
-2.61799388	1.570796327	-150	90	-3.746074239	-9.303718027	-5.161437243	3.116940341	2.83229707
-2.565634	1.570796327	-147	90	-3.389102112	-8.001033344	-5.231900979	-2.872167077	-2.708937431
-2.51327412	1.570796327	-144	90	-2.451231239	-8.58601865	-3.663213675	-2.481169679	-1.977075538
-2.46091425	1.570796327	-141	90	-0.914120724	-9.007335817	-1.646190064	-1.877160301	-1.393168492
-2.40855437	1.570796327	-138	90	0.388828773	-7.829346147	-0.320682885	-1.268139428	-0.917512796
-2.35619449	1.570796327	-135	90	0.915272081	-6.442977856	0.033621844	-0.833858542	-0.45633808
-2.30383461	1.570796327	-132	90	0.978517071	-6.057981775	0.021038268	-0.529644011	0.05743711
-2.25147474	1.570796327	-129	90	1.041430362	-7.025140613	0.540451657	-0.264650497	0.56463001
-2.19911486	1.570796327	-126	90	1.108155742	-9.027405869	1.325120106	0.089090855	0.952443156
-2.14675498	1.570796327	-123	90	1.209573754	-10.28070951	1.639045786	0.6016829	1.231335492
-2.0943951	1.570796327	-120	90	1.057243284	-9.848604129	1.338805817	1.023764932	1.473815225

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-1.98967535	1.570796327	-114	90	0.272388645	-11.35136869	-0.037208155	1.43794358	2.030413421
-1.93731547	1.570796327	-111	90	-0.420816052	-12.99578362	-0.667747047	1.675335211	2.337187557
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-1.51843645	1.570796327	-87	90	0.928752117	-11.97903932	1.121095082	1.137562754	-3.006960554
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-1.09955743	1.570796327	-63	90	-3.031906777	-24.22183564	-3.065054045	0.08772409	1.894316016
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-0.9424778	1.570796327	-54	90	-4.203895451	-22.24405594	-4.272634048	0.049945961	0.542876179
-0.89011792	1.570796327	-51	90	-3.843633095	-23.48235895	-3.891088132	0.043429684	-0.000593729
-0.83775804	1.570796327	-48	90	-2.391343994	-40.98818168	-2.391943966	0.547200249	-0.468171111
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-0.41887902	1.570796327	-24	90	-3.329190789	-7.668760062	-5.323157332	-1.542422478	1.886714065
-0.36651914	1.570796327	-21	90	-4.591258824	-7.421735207	-7.789150935	-2.190031082	1.21836128
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0.052359878	1.570796327	3	90	-8.96803026	-9.304253477	-20.24662346	1.364967731	-2.837220031
0.104719755	1.570796327	6	90	-8.723496141	-8.974424953	-21.23069427	0.835410614	2.056266906
0.157079633	1.570796327	9	90	-9.504958775	-9.707546172	-22.91757759	0.382050647	0.624194979
0.20943951	1.570796327	12	90	-10.74486773	-11.72389612	-17.69508019	-0.175631128	-0.653968173
0.261799388	1.570796327	15	90	-11.18732466	-13.19934171	-15.49608998	-0.971102633	-1.151470018
0.314159265	1.570796327	18	90	-11.52041418	-12.12888848	-20.35652054	-1.770066792	-1.343673331
0.366519143	1.570796327	21	90	-9.626821726	-9.942822337	-21.16482793	-2.344665616	0.768387223
0.41887902	1.570796327	24	90	-6.2233449	-8.016107631	-10.93154946	-2.73626091	0.659921379
0.471238898	1.570796327	27	90	-3.960812773	-6.909012211	-7.034114132	-3.03824959	0.292118084
0.523598776	1.570796327	30	90	-3.09638619	-6.822834386	-5.492082769	2.944507196	-0.154176357
0.575958653	1.570796327	33	90	-3.396824974	-7.899219588	-5.298655184	2.586664455	-0.677563869
0.628318531	1.570796327	36	90	-4.508371274	-10.67508882	-5.710125181	2.087800967	-1.283935212
0.680678408	1.570796327	39	90	-5.635342227	-14.21569209	-6.283618312	1.043339253	-1.924595222
0.733038286	1.570796327	42	90	-5.593911171	-10.17994056	-7.450463137	-0.057115276	-2.608078228
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0.942477796	1.570796327	54	90	-1.085717047	-7.678773266	-2.15990873	-1.551161584	1.19054165
0.994837674	1.570796327	57	90	-1.356361702	-6.206664293	-3.078262915	-1.979720751	0.788037918
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1.099557429	1.570796327	63	90	-0.510622015	-5.804667168	-2.031971438	-2.336716455	-0.362534252
1.151917306	1.570796327	66	90	0.123200473	-8.533123482	-0.512967973	-2.561937135	-0.636279472
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2.14675498	1.570796327	123	90	-10.34725804	-20.9630796	-10.74150218	-0.800775669	-0.951961141
2.199114858	1.570796327	126	90	-10.74025865	-18.01151512	-11.64173212	0.144938866	-0.495094967
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2.722713633	1.570796327	156	90	-3.738973196	-5.234184907	-9.095967273	2.160148723	-2.233347849
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2.879793266	1.570796327	165	90	-12.92816277	-16.85160157	-15.18436246	-1.021916659	1.317288332
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3.036872899	1.570796327	174	90	-10.92111731	-13.44336331	-14.4813446	3.068964897	-2.265733509
3.089232776	1.570796327	177	90	-8.76639903	-10.37673453	-13.85539543	-2.069976671	-1.230212882
3.141592654	1.570796327	180	90	-6.899044158	-9.205466801	-10.74979242	-1.386170068	-2.426628318
-3.14159265	1.832595715	-180	105	-6.899044016	-10.51463424	-9.378187862	1.54763769	-0.497032089
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-2.82743339	1.832595715	-162	105	-7.462246378	-9.192190619	-12.29606608	0.311728967	0.14728962
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-2.67035376	1.832595715	-153	105	-6.987457957	-23.36577343	-7.088616101	2.972538104	1.623117476
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-2.19911486	1.832595715	-126	105	-1.107305776	-8.965787639	-1.883886715	0.084021498	0.302871812
-2.14675498	1.832595715	-123	105	-1.452176573	-9.208266754	-2.249091405	0.674464623	0.634083839
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-1.36135682	2.094395102	-78	120	-0.118929253	-6.899917802	-1.141813018	-0.028140904	-0.114280873

-1.30899694	2.094395102	-75	120	-0.116798871	-5.591110105	-1.564699495	-0.008979573	-0.104057313
-1.25663706	2.094395102	-72	120	0.24659142	-5.10771429	-1.249725642	-0.126517121	-0.239147764
-1.20427718	2.094395102	-69	120	0.966958428	-5.366916909	-0.182831977	-0.335167536	-0.450998492
-1.15191731	2.094395102	-66	120	1.04486294	-5.396363533	-0.437837523	-0.508088479	-0.63994195
-1.09955743	2.094395102	-63	120	0.862682755	-4.803124623	-0.105123493	-0.606962711	-0.845275738
-1.04719755	2.094395102	-60	120	0.640828885	-4.051345965	-1.160148588	-0.786003181	-1.147325651
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-0.73303829	2.094395102	-42	120	-1.377627348	-7.350754846	-2.642954872	2.73933745	2.899029302
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-0.62831853	2.094395102	-36	120	-5.291162043	-14.19914714	-5.888928227	2.289482039	2.150598428
-0.57595865	2.094395102	-33	120	-6.196296739	-16.77758931	-6.593836364	1.915713199	1.67253566
-0.52359878	2.094395102	-30	120	-6.932216828	-17.61754321	-7.31991372	1.459513276	1.223847232
-0.4712389	2.094395102	-27	120	-8.202883398	-20.7753725	-8.449959441	1.059805456	0.577241066
-0.41887902	2.094395102	-24	120	-7.138417333	-31.48264145	-7.154418871	0.071250343	-0.174366691
-0.36651914	2.094395102	-21	120	-5.530479204	-29.49919593	-5.547928777	-2.132921022	-0.654527709
-0.31415927	2.094395102	-18	120	-6.062843719	-25.83666654	-6.108837562	2.648154354	-1.054303856
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-0.15707963	2.094395102	-9	120	-8.146806968	-16.03378659	-8.917829906	0.884063606	3.002916181
-0.10471976	2.094395102	-6	120	-6.988646047	-15.53961231	-7.641671164	0.267454168	2.436008085
-0.05235988	2.094395102	-3	120	-6.805176482	-14.47654236	-7.619357508	-0.305636671	2.047778891
-4.4409E-16	2.094395102	0	120	-8.185290216	-13.32531993	-9.77291126	-0.909348002	1.726143087
0.052359878	2.094395102	3	120	-9.388195618	-11.36428875	-13.75861119	1.651914779	-1.813773548
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0.366519143	2.094395102	21	120	-5.958001054	-9.772486872	-8.290016504	-0.93982573	2.858368568
0.41887902	2.094395102	24	120	-6.431041598	-9.288592173	-9.599659879	-1.556969015	2.355490492
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0.575958653	2.094395102	33	120	-3.024174687	-5.739161688	-6.351343027	-3.086402125	0.235429342
0.628318531	2.094395102	36	120	-2.787070577	-5.834853328	-5.760208476	2.81281491	-0.123639017
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0.785398163	2.094395102	45	120	-3.381389071	-11.14450326	-4.176890565	1.805510099	-1.59536035
0.837758041	2.094395102	48	120	-3.044265617	-12.94807727	-3.512660819	1.508143768	-2.004746322
0.890117919	2.094395102	51	120	-3.571114226	-17.99086315	-3.730988509	1.679504422	-2.339415223
0.942477796	2.094395102	54	120	-4.486243305	-16.37861072	-4.776636426	-2.937102177	-2.740833984
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1.623156204	2.094395102	93	120	-4.3265663	-5.334120579	-11.16576679	0.976627197	0.723428395
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0.20943951	2.35619449	12	135	-8.128619602	-13.20527233	-9.744507402	0.938592767	-1.804468235
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0.523598776	2.35619449	30	135	-3.469361354	-5.69944108	-7.431430908	-0.993613436	2.778521766
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0.733038286	2.617993878	42	150	0.920011514	-6.895906306	0.135047529	0.785257291	-3.089590171
0.785398163	2.617993878	45	150	0.761562854	-11.08027898	0.467653981	0.629127622	3.042791813
0.837758041	2.617993878	48	150	0.384219176	-12.1945093	0.137508115	-0.050040114	2.852428702
0.890117919	2.617993878	51	150	0.321519621	-10.20964738	-0.080855427	-0.402602273	2.642278541
0.942477796	2.617993878	54	150	0.267780687	-10.47562219	-0.114449858	-0.5488248	2.496927173
0.994837674	2.617993878	57	150	-0.257122394	-11.88513139	-0.566405204	-0.749587748	2.384916365
1.047197551	2.617993878	60	150	-0.971009273	-11.97178774	-1.330387251	-0.933136832	2.162772827
1.099557429	2.617993878	63	150	-0.476086061	-11.77718948	-0.810502407	-1.017005285	1.816967711
1.151917306	2.617993878	66	150	0.344950455	-13.28608229	1.089194172	-1.313005582	1.617412233
1.204277184	2.617993878	69	150	0.880361551	-12.22683368	2.53774294	-2.020664603	1.616058899
1.256637061	2.617993878	72	150	1.104724497	-8.533491713	3.010561652	-2.197613042	1.690442253
1.308996939	2.617993878	75	150	1.119176297	-7.147346151	2.690230056	-1.915896789	1.727404013
1.361356817	2.617993878	78	150	0.960734484	-7.428693285	1.990698179	-1.439694319	1.664811177
1.413716694	2.617993878	81	150	0.927982518	-9.971413073	1.423922688	-0.983064539	1.54068794
1.466076572	2.617993878	84	150	0.993327813	-20.65671571	0.963524174	-0.608500981	1.448089403
1.518436449	2.617993878	87	150	0.311644469	-18.08753348	0.248399655	2.990331441	1.394799617
1.570796327	2.617993878	90	150	-0.457416708	-13.95852965	-0.655823058	-2.617854466	1.303208378
1.623156204	2.617993878	93	150	-0.96340858	-12.41149353	-1.286272107	-1.544718359	1.131655621
1.675516082	2.617993878	96	150	-1.014284585	-10.44611618	-1.539834137	-0.691002326	0.949852131
1.72787596	2.617993878	99	150	-1.349380673	-11.16713112	-1.827685823	0.140685855	0.819381957
1.780235837	2.617993878	102	150	-1.422985853	-11.60347477	-1.860961731	1.044924652	0.73604331
1.832595715	2.617993878	105	150	-0.703524172	-14.14047042	-0.904953274	1.471844734	0.718753278
1.884955592	2.617993878	108	150	0.59475829	-20.22662408	0.558663079	0.306722692	0.800111709
1.93731547	2.617993878	111	150	0.867866714	-11.39656508	1.342675181	-0.05840717	0.975961686
1.989675347	2.617993878	114	150	0.724738088	-8.249733998	0.929439978	0.472469021	1.236868844
2.042035225	2.617993878	117	150	0.703435333	-5.876606195	-0.374415509	1.051328703	1.54050458
2.094395102	2.617993878	120	150	-0.315948724	-5.166527083	-2.037715758	1.346373791	1.750102582
2.14675498	2.617993878	123	150	-1.792626703	-6.976871598	-3.360876714	1.354658223	1.754363111
2.199114858	2.617993878	126	150	-2.181915517	-8.519720428	-3.330515554	1.168215928	1.754257963
2.251474735	2.617993878	129	150	-1.29575573	-7.025704647	-2.646516249	1.244933859	2.013796821
2.303834613	2.617993878	132	150	-0.306733332	-4.89633072	-2.161383331	1.508046888	2.437932117
2.35619449	2.617993878	135	150	-1.146236675	-5.230559357	-3.296158082	1.703331057	2.87436193
2.408554368	2.617993878	138	150	-6.436042007	-10.85900765	-8.382142434	1.813289496	-2.80661563
2.460914245	2.617993878	141	150	-12.80672312	-29.27527856	-12.90577713	-0.429761015	-1.053359477
2.513274123	2.617993878	144	150	-7.367282091	-16.68099009	-7.908262831	-0.571297243	0.072921406
2.565634	2.617993878	147	150	-5.004966319	-15.02418397	-5.46041117	0.520660762	0.855844331
2.617993878	2.617993878	150	150	-2.561719463	-10.60179467	-3.303616619	1.000225562	1.406962321
2.670353756	2.617993878	153	150	-2.699618765	-11.55911711	-3.304585867	0.876095419	1.673182532
2.722713633	2.617993878	156	150	-6.224711392	-16.84639436	-6.618398963	0.050708457	1.848668245

2.775073511	2.617993878	159	150	-10.98677897	-16.70593508	-12.34148363	-1.173289167	2.376565247
2.827433388	2.617993878	162	150	-9.964961809	-17.79913968	-10.7463174	-1.615649501	3.054082057
2.879793266	2.617993878	165	150	-7.439944608	-18.97780917	-7.75595591	-0.716188744	2.985937362
2.932153143	2.617993878	168	150	-5.338012139	-9.755239044	-7.287360288	-0.296209795	2.805353906
2.984513021	2.617993878	171	150	-4.760259919	-6.142791029	-10.40429682	-0.356134674	2.873551477
3.036872899	2.617993878	174	150	-7.059891093	-8.114598652	-13.72310008	-0.505929698	-2.281718189
3.089232776	2.617993878	177	150	-7.928251834	-18.1409227	-8.362826898	-1.371325218	-1.522250592
3.141592654	2.617993878	180	150	-6.899044107	-13.64828067	-7.93039961	-2.816496544	-1.085700085