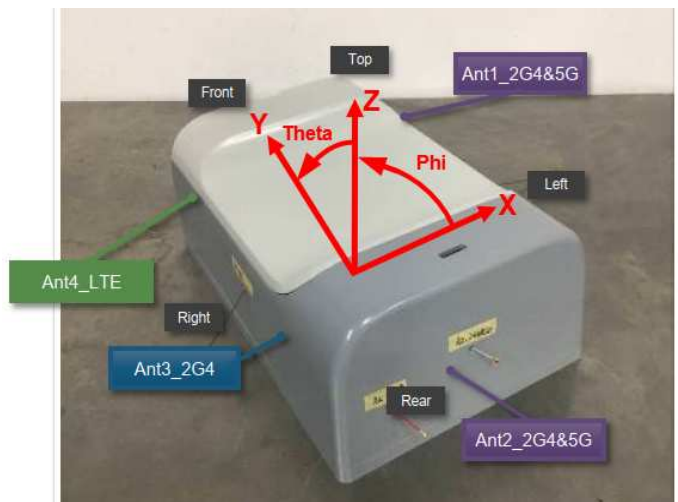


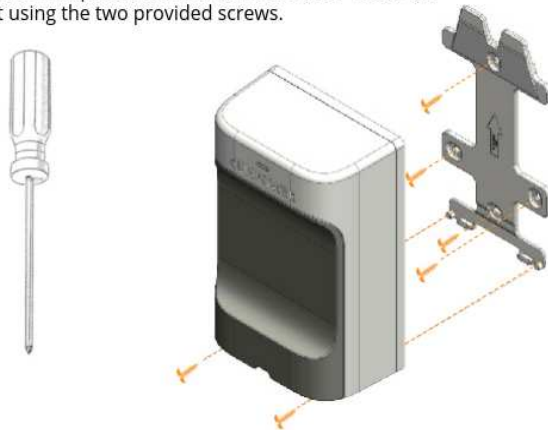
PVS6



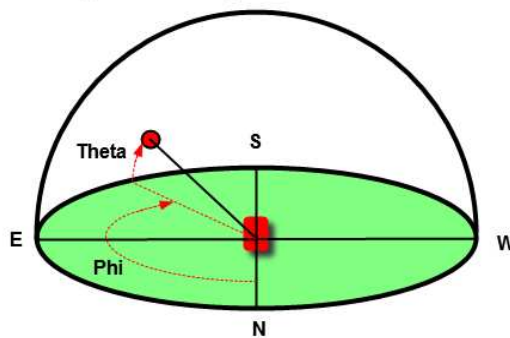
Installation Notes

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	-3.567254703	-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	-0.078205991
-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	2.159956802	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	-3.436397424	-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	-1.488642401
-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
-2.14675498	0.785398163	-123	45	-5.554894404	-6.687275395	-11.94670688	-1.605645772	3.106256072
-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	-10.9423784	-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
-0.99483767	0.785398163	-57	45	-2.428718228	-4.719219526	-6.302288257	-3.121409778	-0.962960085
-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
-0.73303829	0.785398163	-42	45	-0.552878068	-1.854940912	-6.419179776	-1.063196405	2.300852995
-0.68067841	0.785398163	-39	45	-0.520781702	-3.090139827	-4.021904726	-0.480391104	2.751408158
-0.62831865	0.785398163	-36	45	-0.476998736	-3.695303042	-3.288802984	0.293160016	3.067985768
-0.57595853	0.785398163	-33	45	-0.515967323	-2.424271412	-5.006604586	1.057882992	-2.884303583
-0.52359878	0.785398163	-30	45	-0.560002244	-1.156185476	-9.478729866	1.669576927	-2.310937292
-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
-0.31415927	0.785398163	-18	45	-4.944996166	-8.866807993	-7.202304498	-1.703457028	1.779527202
-0.26179939	0.785398163	-15	45	-5.446722238	-7.865702117	-9.141737606	-0.420238841	2.604016007
-0.20943951	0.785398163	-12	45	-4.373161742	-6.566640284	-8.390347378	0.399001024	-2.514862532
-0.15707963	0.785398163	-9	45	-4.072793405	-7.687880246	-6.552324779	1.159172504	-1.768602059
-0.10471976	0.785398163	-6	45	-6.24002696	-10.57141761	-8.238766241	2.074285848	-1.102825865
-0.05235988	0.785398163	-3	45	-9.898789235	-13.57147582	-12.33448826	-2.832376475	-0.017216049
-4.4409E-16	0.785398163	0	45	-8.308117952	-10.21454384	-12.80216118	-1.43760002	1.538058325
0.052359878	0.785398163	3	45	-4.811649536	-7.115128645	-8.666601764	2.543445304	-0.341257113
0.104719755	0.785398163	6	45	-2.637462777	-6.091388978	-5.245281839	-2.988081394	0.444448378
0.157079633	0.785398163	9	45	-2.222406503	-5.998014419	-4.582269875	-2.201561731	1.122447518

0.20943951	0.785398163	12	45	-2.834360626	-6.589102775	-5.20934775	-1.357897348	1.957037499
0.261799388	0.785398163	15	45	-2.866327564	-7.003252261	-4.982885933	-0.365729606	2.830459543
0.314159265	0.785398163	18	45	-2.504786092	-5.891812911	-5.168445706	0.617444737	-2.688866286
0.366519143	0.785398163	21	45	-2.286465632	-4.684689272	-6.009483047	1.480191349	-1.883923434
0.41887902	0.785398163	24	45	-1.730691047	-3.580564023	-6.32926975	2.310397453	-1.095448901
0.471238898	0.785398163	27	45	-1.235085918	-2.545303758	-7.078145422	3.054031998	-0.400200981
0.523598776	0.785398163	30	45	-1.421573556	-2.427412731	-8.267348657	-2.536322392	0.350847024
0.575958653	0.785398163	33	45	-1.745634048	-2.775467549	-8.500553425	-1.788227511	1.118125954
0.628318531	0.785398163	36	45	-1.70971525	-2.725454185	-8.517712855	-1.072406624	1.808906351
0.680678408	0.785398163	39	45	-2.181503814	-3.356170293	-8.434304127	-0.476825098	2.518066264
0.733038286	0.785398163	42	45	-3.528338164	-5.497161013	-7.911400499	0.126740184	-3.123809442
0.785398163	0.785398163	45	45	-5.310540479	-8.19127611	-8.454389267	0.870710389	-2.569968199
0.837758041	0.785398163	48	45	-7.319372699	-10.36523489	-10.29439926	1.689316451	-1.906632468
0.890117919	0.785398163	51	45	-8.479027601	-11.84674482	-11.15910154	2.616907864	-1.145641194
0.942477796	0.785398163	54	45	-8.147783517	-10.6690146	-11.70930007	-2.800601044	-0.592165818
0.994837674	0.785398163	57	45	-8.22251023	-9.661763176	-13.718753	-2.231550895	-0.114431103
1.047197551	0.785398163	60	45	-9.133809636	-10.42719991	-15.02501425	-1.65581224	0.483739896
1.099557429	0.785398163	63	45	-9.122214483	-10.74031509	-14.19396192	-0.934293171	0.95441402
1.151917306	0.785398163	66	45	-8.811649756	-10.24837005	-14.31434497	-0.3957139	1.32329289
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
1.361356817	0.785398163	78	45	-13.33329212	-14.40519535	-19.93451322	0.942604723	-1.574828657
1.413716694	0.785398163	81	45	-11.27697959	-12.18863007	-18.50439353	0.99146768	-0.592546458
1.466076572	0.785398163	84	45	-10.3829137	-11.16168226	-18.23023991	1.195914782	0.148672956
1.518436449	0.785398163	87	45	-9.533079132	-10.45945797	-16.69799509	1.48457772	0.817663896
1.570796327	0.785398163	90	45	-8.317749592	-9.7149765	-13.92282286	1.645986957	1.045304669
1.623156204	0.785398163	93	45	-7.476940443	-9.339677375	-12.05139814	1.634588587	1.07491929
1.675516082	0.785398163	96	45	-7.309341775	-9.256337598	-11.73072406	1.577257736	1.219920012
1.72787596	0.785398163	99	45	-7.71448476	-9.433219845	-12.57130142	1.557232522	1.552437074
1.780235837	0.785398163	102	45	-8.460068081	-9.818821831	-14.16818219	1.470245168	1.778472305
1.832595715	0.785398163	105	45	-8.98063835	-9.694322376	-17.17537811	1.160943294	1.266931243
1.884955592	0.785398163	108	45	-6.936553028	-8.115403258	-13.1759103	0.781818837	0.40301307
1.93731547	0.785398163	111	45	-5.102006875	-6.691733073	-10.23727029	0.552349558	0.186337197
1.989675347	0.785398163	114	45	-5.260635998	-6.642755319	-10.90577166	0.407450405	0.044542535
2.042035225	0.785398163	117	45	-6.14950863	-7.439386314	-12.05085449	0.21910216	-0.322683289
2.094395102	0.785398163	120	45	-5.749577653	-7.957634951	-9.744670156	-0.070392072	-0.677366449
2.14675498	0.785398163	123	45	-5.182237101	-8.63114027	-7.794194381	-0.433843931	-0.827232348
2.199114858	0.785398163	126	45	-6.97034128	-10.8041099	-9.288702213	-1.102513923	-1.130811406
2.251474735	0.785398163	129	45	-6.75711452	-8.866880795	-10.90487653	-2.200487182	-2.183377685
2.303834613	0.785398163	132	45	-2.761263559	-5.049086544	-6.638692767	-2.750205412	-2.90819704
2.35619449	0.785398163	135	45	-2.566717255	-4.840398408	-6.464620189	-3.138336131	3.065460517
2.408554368	0.785398163	138	45	-5.703483279	-7.097460542	-11.3171311	2.398982679	2.350059642
2.460914245	0.785398163	141	45	-3.422227241	-5.084728249	-8.397216752	1.417538033	1.037486554
2.513274123	0.785398163	144	45	-0.700579809	-2.723941028	-4.990161942	0.881609714	0.61112348
2.565634	0.785398163	147	45	-0.797202203	-2.748033848	-5.211811713	0.313736655	0.098648313
2.617993878	0.785398163	150	45	0.19695108	-1.985974227	-3.836344325	-0.486745427	-0.766508881
2.670353756	0.785398163	153	45	1.03941473	0.02407083	-0.80538558	-1.132404184	-1.376106503
2.722713633	0.785398163	156	45	1.194736104	0.203307199	-0.24605346	-1.695882275	-1.909339476
2.775073511	0.785398163	159	45	1.195340828	-0.859628281	-0.97100402	-2.475973863	-2.695929995
2.827433388	0.785398163	162	45	1.171402838	-0.643501982	-0.634297133	2.914970322	2.719764176
2.879793266	0.785398163	165	45	1.120630094	-0.860384784	-1.54598501	2.096166728	1.849834751
2.932153143	0.785398163	168	45	1.355614045	-1.233482349	-1.275993505	1.106949815	0.666616324
2.984513021	0.785398163	171	45	1.39688302	0.095942637	1.206428551	0.221234863	-0.192427493
3.036872899	0.785398163	174	45	1.358367484	-0.203465258	0.657044566	-0.469661956	-0.883454634
3.089232776	0.785398163	177	45	1.221434964	-2.365246164	-1.280093772	-1.317992004	-1.900787227
3.141592654	0.785398163	180	45	1.255175789	-3.329859995	-0.601906261	-2.253632931	-2.884237116
-3.14159265	1.047197551	-180	60	1.255175639	-6.290839813	0.414691667	1.18614027	0.356681923
-3.08923278	1.047197551	-177	60	-0.827703199	-8.866955765	-1.569753619	0.579870633	-0.374130661
-3.0368729	1.047197551	-174	60	-6.958137226	-17.91510314	-7.321315706	0.191602211	-1.663737575
-2.98451302	1.047197551	-171	60	-5.446945635	-21.65944876	-5.552088679	2.143158261	3.063150541
-2.93215314	1.047197551	-168	60	-3.813271961	-12.76094004	-4.405212979	1.534630913	1.891586362
-2.87979327	1.047197551	-165	60	-0.918430659	-8.847259728	-1.681370105	0.981332337	0.835411483
-2.82743339	1.047197551	-162	60	-0.126206173	-9.052452362	-0.721284183	0.568604747	0.123955127

-2.77507351	1.047197551	-159	60	-2.272785775	-14.15618835	-2.563799513	-0.015259079	-0.691442996
-2.72271363	1.047197551	-156	60	-3.19812856	-18.9315545	-3.315701424	-1.445171772	-1.699838694
-2.67035376	1.047197551	-153	60	-3.775146242	-19.61429022	-3.88985397	-2.49594922	-2.485615231
-2.61799388	1.047197551	-150	60	-5.713021818	-19.15590198	-5.914169419	2.201993537	2.90032158
-2.565634	1.047197551	-147	60	-4.083583428	-12.34239388	-4.785922912	1.613512226	2.011201297
-2.51327412	1.047197551	-144	60	-2.696860952	-9.53661494	-3.704270716	1.460367617	1.566214801
-2.46091425	1.047197551	-141	60	-3.34932647	-8.815376253	-4.800500441	1.222928237	1.196328186
-2.40855437	1.047197551	-138	60	-4.498310942	-8.322072348	-6.823745246	0.724541106	0.59908123
-2.35619449	1.047197551	-135	60	-4.437434597	-6.783414103	-8.232350825	0.138134457	-0.196797368
-2.30383461	1.047197551	-132	60	-4.153855138	-5.644641175	-9.521636652	-0.37375503	-1.28404626
-2.25147474	1.047197551	-129	60	-2.81447429	-5.726188104	-5.925650409	-0.879724051	-2.406958065
-2.19911486	1.047197551	-126	60	-1.48696264	-6.842278422	-2.982864287	-1.41382831	-2.984707258
-2.14675498	1.047197551	-123	60	-2.420739894	-9.120654969	-3.465411652	-2.016989101	2.820885542
-2.0943951	1.047197551	-120	60	-4.98232321	-11.07500749	-6.207945905	-2.867750224	2.145642142
-2.04203522	1.047197551	-117	60	-5.609176627	-9.293781867	-8.035932606	2.67341446	1.288193166
-1.98967535	1.047197551	-114	60	-5.170173213	-7.362468705	-9.189159887	2.357990342	0.585231096
-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
-1.57079633	1.047197551	-90	60	-4.079146392	-8.67265231	-5.931715644	-1.178557809	1.954802297
-1.51843645	1.047197551	-87	60	-3.618109624	-7.685714471	-5.778773722	-1.125870456	1.724813376
-1.46607657	1.047197551	-84	60	-4.317840037	-7.789458805	-6.911152344	-1.116637321	1.681627145
-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
-1.20427718	1.047197551	-69	60	-2.700491137	-14.64533767	-2.987278575	0.289003294	-2.492307591
-1.15191731	1.047197551	-66	60	-1.806471902	-21.25859258	-1.85602233	0.788719194	-2.45828714
-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
-0.99483767	1.047197551	-57	60	-4.062481814	-5.650424646	-9.201782474	-2.576517453	-0.908549467
-0.9424778	1.047197551	-54	60	-0.79230362	-2.410824591	-5.863120119	-2.422275803	-0.117210803
-0.89011792	1.047197551	-51	60	1.015136149	-1.070292445	-3.171823025	-2.235116216	0.355309225
-0.83775804	1.047197551	-48	60	1.105802414	-1.140755713	-1.901512438	-1.960322422	0.746855648
-0.78539816	1.047197551	-45	60	0.912755218	-1.908138947	-2.295589132	-1.575688645	1.196456628
-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
-0.62831853	1.047197551	-36	60	0.796789054	-5.773335862	-0.283859352	0.141409094	-3.102655852
-0.57595865	1.047197551	-33	60	0.626934389	-5.190270963	-0.692424508	0.971037224	-2.669433537
-0.52359878	1.047197551	-30	60	-0.254089826	-3.781112674	-2.802661218	1.632522807	-2.118385075
-0.4712389	1.047197551	-27	60	-1.318394805	-3.347775525	-5.597852399	2.204629323	-1.349270489
-0.41887902	1.047197551	-24	60	-2.485758302	-4.070700897	-7.631863232	2.789084191	-0.294410944
-0.36651914	1.047197551	-21	60	-3.15664882	-6.04423785	-6.293227996	-2.839345725	0.761210708
-0.31415927	1.047197551	-18	60	-3.872750048	-9.02273967	-5.455982782	-1.982366284	1.471297403
-0.26179939	1.047197551	-15	60	-6.063492453	-10.69492854	-7.896017289	-0.904397842	2.284080764
-0.20943951	1.047197551	-12	60	-6.411907432	-11.22227619	-8.153373517	0.065811096	-2.690670942
-0.15707963	1.047197551	-9	60	-4.987089248	-12.74496098	-5.783645345	1.004033861	-1.846028505
-0.10471976	1.047197551	-6	60	-6.61943701	-15.26216376	-7.257754383	2.061081302	-1.149541206
-0.05235988	1.047197551	-3	60	-10.30139904	-17.18785044	-11.29669947	-2.700377656	0.019365982
-4.4409E-16	1.047197551	0	60	-8.30811766	-12.40529167	-10.44982696	-1.396747874	1.581996448
0.052359878	1.047197551	3	60	-4.817125013	-9.575011594	-6.584715952	2.494008549	-0.400036598
0.104719755	1.047197551	6	60	-2.773616685	-9.563301392	-3.794193879	-3.02053229	0.411478243
0.157079633	1.047197551	9	60	-2.519570443	-9.85848358	-3.405584935	-2.039047601	1.167545046
0.20943951	1.047197551	12	60	-2.513201597	-8.750502066	-3.692693444	-1.047644303	2.100847561
0.261799388	1.047197551	15	60	-1.45428855	-7.318684835	-2.757017734	-0.176225061	3.009519689
0.314159265	1.047197551	18	60	-0.918088397	-6.385268886	-2.368813846	0.584770426	-2.501005459
0.366519143	1.047197551	21	60	-1.204509591	-6.739209277	-2.628744855	1.31407056	-1.727156115
0.41887902	1.047197551	24	60	-1.762594303	-7.993425074	-2.944106971	2.172834462	-0.999178829
0.471238898	1.047197551	27	60	-2.690422099	-8.499819336	-4.012556173	3.135567178	-0.329290798
0.523598776	1.047197551	30	60	-3.87050226	-8.668505117	-5.618081415	-2.204020069	0.379264813

0.575958653	1.047197551	33	60	-4.598816608	-8.111941348	-7.158514584	-1.215460648	1.083337602
0.628318531	1.047197551	36	60	-4.742917159	-6.477668097	-9.566930601	-0.386271487	1.823262649
0.680678408	1.047197551	39	60	-4.653199093	-5.767901965	-11.10488771	0.276019334	2.827555671
0.733038286	1.047197551	42	60	-4.615561557	-6.032479375	-10.16917235	0.935286214	-2.606418149
0.785398163	1.047197551	45	60	-5.042915261	-6.333799472	-10.9413519	1.58987742	-1.869198212
0.837758041	1.047197551	48	60	-5.546040558	-6.897636892	-11.27369928	2.169881973	-0.873256572
0.890117919	1.047197551	51	60	-5.742760583	-8.081487522	-9.547821886	2.720560032	-0.100203772
0.942477796	1.047197551	54	60	-6.69057131	-9.543064025	-9.864629584	-3.033921389	0.483858291
0.994837674	1.047197551	57	60	-8.550091255	-12.02921629	-11.1372813	-2.585259905	1.199435591
1.047197551	1.047197551	60	60	-10.30366492	-17.97828733	-11.11717476	-2.037189558	1.824252449
1.099557429	1.047197551	63	60	-11.8413758	-22.29100964	-12.25174805	-0.345133149	2.236681361
1.151917306	1.047197551	66	60	-12.89410247	-17.48777487	-14.74658315	0.469435379	2.866683168
1.204277184	1.047197551	69	60	-11.8900984	-17.36558869	-13.33753256	0.93958148	-2.573822643
1.256637061	1.047197551	72	60	-10.51441134	-17.72146097	-11.43083217	1.480854728	-2.061513723
1.308996939	1.047197551	75	60	-10.69873438	-16.41585685	-12.05418372	1.737530307	-1.44926136
1.361356817	1.047197551	78	60	-9.98582989	-14.78286423	-11.73388893	1.739788422	-0.579194491
1.413716694	1.047197551	81	60	-8.88618471	-13.28784704	-10.84437526	1.835868892	0.056512823
1.466076572	1.047197551	84	60	-9.197186871	-12.0335447	-12.65312061	2.106992376	0.644235916
1.518436449	1.047197551	87	60	-8.802000473	-10.30453846	-14.14121968	2.354591513	1.409570562
1.570796327	1.047197551	90	60	-8.218223254	-9.719692854	-13.56002818	2.449763388	1.721277843
1.623156204	1.047197551	93	60	-8.31236936	-10.10999218	-13.01107946	2.427503092	1.584287793
1.675516082	1.047197551	96	60	-8.296051562	-10.51947737	-12.2680547	2.402998297	1.600655072
1.72787596	1.047197551	99	60	-8.011863957	-10.33558056	-11.8380519	2.450979353	1.954744267
1.780235837	1.047197551	102	60	-7.996296854	-10.16713656	-12.04816337	2.46746889	2.230616589
1.832595715	1.047197551	105	60	-9.585412517	-10.87515873	-15.48713857	2.305589976	1.859894602
1.884955592	1.047197551	108	60	-8.997879845	-11.60315408	-12.45490026	1.935677153	0.784063282
1.93731547	1.047197551	111	60	-6.839172306	-11.34080333	-8.741422139	1.635829737	0.587777654
1.989675347	1.047197551	114	60	-7.538319401	-11.71600046	-9.62947671	1.577865407	0.630896355
2.042035225	1.047197551	117	60	-10.85687235	-13.92075125	-13.81424633	1.60266653	0.463458941
2.094395102	1.047197551	120	60	-12.00977607	-19.5880555	-12.84340184	1.339655738	-0.370822797
2.14675498	1.047197551	123	60	-8.107468863	-22.97226896	-8.251509971	-0.309788372	-0.66815668
2.199114858	1.047197551	126	60	-7.703965069	-16.44053519	-8.327608559	-1.31841739	-0.936574052
2.251474735	1.047197551	129	60	-7.985910415	-11.90670051	-10.24391533	-1.988440407	-1.958221222
2.303834613	1.047197551	132	60	-3.656949391	-9.008610463	-5.154354767	-2.437805687	-2.780635838
2.35619449	1.047197551	135	60	-2.629535861	-9.197180925	-3.710885136	-2.842014566	-3.081921926
2.408554368	1.047197551	138	60	-5.380215967	-11.45715846	-6.610983745	2.651470656	2.682705231
2.460914245	1.047197551	141	60	-4.335124195	-8.990394202	-6.155189835	1.705791251	1.593634316
2.513274123	1.047197551	144	60	-1.485738164	-6.942153537	-2.940740477	1.250941407	1.080717575
2.565634	1.047197551	147	60	-2.293628955	-8.502317659	-3.482087725	0.715102384	0.630463936
2.617993878	1.047197551	150	60	-2.724093548	-8.59437774	-4.024764962	-0.420345682	-0.364244912
2.670353756	1.047197551	153	60	1.100320097	-4.318379841	-0.369783706	-1.18634742	-1.183537529
2.722713633	1.047197551	156	60	1.104183524	-2.750008586	0.822798052	-1.704376182	-1.775244168
2.775073511	1.047197551	159	60	1.153318246	-3.132923627	0.485936457	-2.378521814	-2.613632381
2.827433388	1.047197551	162	60	1.233499157	-3.248329841	1.604331146	3.084672238	2.77850328
2.879793266	1.047197551	165	60	1.231318789	-3.642495262	1.463158313	2.262205382	1.988414738
2.932153143	1.047197551	168	60	1.280176816	-4.037817484	0.862774851	1.287929783	0.945919939
2.984513021	1.047197551	171	60	1.413705073	-2.870474666	2.379047766	0.398387767	0.013034213
3.036872899	1.047197551	174	60	1.39858212	-3.026346087	1.750636561	-0.29822071	-0.735982182
3.089232776	1.047197551	177	60	1.020362277	-4.962208293	-0.2417759	-1.093665393	-1.782812715
3.141592654	1.047197551	180	60	1.255175639	-6.290839813	0.414691667	-1.955452383	-2.784910731
-3.14159265	1.308996939	-180	75	1.255175636	-9.163881858	0.841761515	1.79883795	0.44075921
-3.08923278	1.308996939	-177	75	-0.597048411	-10.82864075	-1.029636921	1.288594277	-0.224150844
-3.0368729	1.308996939	-174	75	-6.327261056	-13.72999593	-7.198961064	0.8468671	-1.296281586
-2.98451302	1.308996939	-171	75	-6.853325497	-16.62765225	-7.336714691	0.592803842	-2.909661975
-2.93215314	1.308996939	-168	75	-6.295325063	-17.41277335	-6.644783262	0.817659744	2.199916705
-2.87979327	1.308996939	-165	75	-4.058881066	-15.68095799	-4.368602056	1.175934168	1.104761962
-2.82743339	1.308996939	-162	75	-3.290292542	-15.43032149	-3.564070451	1.447856564	0.394565151
-2.77507351	1.308996939	-159	75	-5.228399713	-17.87754776	-5.471029731	1.901745243	-0.485260473
-2.72271363	1.308996939	-156	75	-3.831964473	-18.80737956	-3.972323994	2.703367632	-1.47332914
-2.67035376	1.308996939	-153	75	-2.296826887	-16.78980297	-2.453979144	3.073562266	-1.954192921
-2.61799388	1.308996939	-150	75	-3.424456607	-15.64077072	-3.693316834	2.962953545	-2.332868255
-2.565634	1.308996939	-147	75	-5.232224369	-14.40327657	-5.79248625	2.668820402	-2.97552937
-2.51327412	1.308996939	-144	75	-4.934223516	-13.37428534	-5.605513847	2.418314674	2.537743366
-2.46091425	1.308996939	-141	75	-5.070081766	-13.99639874	-5.665149381	2.168523582	1.811326734

-2.40855437	1.308996939	-138	75	-4.769867446	-16.7600514	-5.053577143	1.652073321	0.833826141
-2.35619449	1.308996939	-135	75	-2.062040891	-16.98422301	-2.204160067	0.61249	0.035832015
-2.30383461	1.308996939	-132	75	-0.663125416	-13.14284387	-0.91569422	-0.080660193	-0.550949926
-2.25147474	1.308996939	-129	75	-0.596002993	-10.6422398	-1.04847073	-0.473827313	-1.173807289
-2.19911486	1.308996939	-126	75	-0.685997609	-9.46490862	-1.3031394	-0.77850178	-1.793069836
-2.14675498	1.308996939	-123	75	-1.523381195	-9.367772632	-2.302726382	-1.027359258	-2.303510892
-2.0943951	1.308996939	-120	75	-3.619581107	-10.56652355	-4.599436738	-1.260141642	-2.810231575
-2.04203522	1.308996939	-117	75	-5.863123198	-13.18779702	-6.752366726	-1.597554112	2.883557106
-1.98967535	1.308996939	-114	75	-7.399281259	-15.66141539	-8.101037598	-2.221463645	2.346418752
-1.93731547	1.308996939	-111	75	-8.855913188	-15.16525891	-10.01316606	-2.865412456	1.732265607
-1.88495559	1.308996939	-108	75	-8.588018497	-14.39559319	-9.910801318	3.046185606	0.853155965
-1.83259571	1.308996939	-105	75	-7.240780649	-14.93359092	-8.05055305	2.751286298	0.232111943
-1.78023584	1.308996939	-102	75	-7.931291945	-16.089225	-8.651582803	2.392610612	-0.272615342
-1.72787596	1.308996939	-99	75	-9.409974458	-17.00331856	-10.2404191	1.987870155	-1.03628951
-1.67551608	1.308996939	-96	75	-8.699045885	-18.14888448	-9.222284449	1.578165739	-1.71215691
-1.6231562	1.308996939	-93	75	-8.76904141	-19.8749971	-9.119463976	1.048204194	-2.012780807
-1.57079633	1.308996939	-90	75	-10.41338254	-20.51691607	-10.8596046	0.403791502	-2.272201113
-1.51843645	1.308996939	-87	75	-11.35297528	-20.81986199	-11.87403586	-0.031657333	-2.753544424
-1.46607657	1.308996939	-84	75	-10.89709518	-24.51371442	-11.09017669	-0.242896993	3.084718066
-1.41371669	1.308996939	-81	75	-13.0754691	-63.63089201	-13.07550731	1.374853471	2.720933201
-1.36135682	1.308996939	-78	75	-18.20497835	-23.49021918	-19.7300265	2.709877247	1.302446154
-1.30899694	1.308996939	-75	75	-9.68500322	-17.883308	-10.39805082	2.675164989	0.091292029
-1.25663706	1.308996939	-72	75	-5.576128289	-14.75141995	-6.135806737	2.654400667	-0.210443161
-1.20427718	1.308996939	-69	75	-3.677673651	-12.76064582	-4.250204928	2.666907479	-0.395655325
-1.15191731	1.308996939	-66	75	-2.321165912	-12.13204612	-2.800271652	2.750872868	-0.447550646
-1.09955743	1.308996939	-63	75	-1.13455428	-13.45399712	-1.396910773	3.013365744	-0.358131331
-1.04719755	1.308996939	-60	75	-0.454793736	-15.3111703	-0.599119194	-2.506755498	-0.186773159
-0.99483767	1.308996939	-57	75	-0.600805521	-11.51156067	-0.968037963	-1.651764226	0.077932105
-0.9424778	1.308996939	-54	75	-0.772281206	-7.388414763	-1.840018975	-1.30203702	0.528096312
-0.89011792	1.308996939	-51	75	0.168181926	-5.181631262	-1.329984441	-1.113339128	1.070662761
-0.83775804	1.308996939	-48	75	1.083371314	-4.456793802	-0.33874462	-0.934990765	1.481744532
-0.78539816	1.308996939	-45	75	0.779932564	-4.836735216	-0.612902279	-0.693763702	1.880631541
-0.73303829	1.308996939	-42	75	-0.155776269	-5.922064224	-1.493354839	-0.32899678	2.49059033
-0.68067841	1.308996939	-39	75	0.248244988	-6.989084947	-0.661092628	0.184887359	-3.07247178
-0.62831853	1.308996939	-36	75	1.187247612	-7.470146724	0.551248	0.770556771	-2.511241025
-0.57595865	1.308996939	-33	75	1.088078333	-7.933304412	0.506797569	1.350636802	-1.998195619
-0.52359878	1.308996939	-30	75	0.073210265	-8.954423635	-0.507175972	1.984517475	-1.41785057
-0.4712389	1.308996939	-27	75	-1.407302289	-9.786011453	-2.088933188	2.744905705	-0.740573907
-0.41887902	1.308996939	-24	75	-2.534451787	-9.480491287	-3.514535982	-2.772330399	0.099760372
-0.36651914	1.308996939	-21	75	-2.212226364	-8.96889084	-3.24159299	-2.135255416	0.938471804
-0.31415927	1.308996939	-18	75	-2.579696447	-9.34184476	-3.6075975	-1.605131085	1.56957273
-0.26179939	1.308996939	-15	75	-5.593429217	-11.35161541	-6.933933689	-1.132416001	2.319376256
-0.20943951	1.308996939	-12	75	-7.634966539	-16.25095403	-8.277532635	-0.618833067	-2.642046339
-0.15707963	1.308996939	-9	75	-5.955162023	-26.13801793	-5.997001768	0.487844087	-1.766923748
-0.10471976	1.308996939	-6	75	-7.443288886	-26.20480865	-7.501437116	2.570911183	-1.062321831
-0.05235988	1.308996939	-3	75	-10.76058292	-22.27065778	-11.07869894	-2.209071174	0.158083004
-4.4409E-16	1.308996939	0	75	-8.308117795	-16.17135941	-9.083767391	-1.315574798	1.610627769
0.052359878	1.308996939	3	75	-5.0282759	-13.90925409	-5.63004157	2.353420222	-0.498696066
0.104719755	1.308996939	6	75	-3.068009469	-15.48823852	-3.324166516	3.019928258	0.028628126
0.157079633	1.308996939	9	75	-2.713291875	-16.29101198	-2.90815012	-2.059426096	1.079562956
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
0.837758041	1.308996939	48	75	-6.022402936	-19.79858499	-6.20836792	1.350243747	-1.527586309
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
0.994837674	1.308996939	57	75	-9.786844049	-17.91230661	-10.51301851	-1.831531371	0.246189295
1.047197551	1.308996939	60	75	-10.00325946	-17.42440917	-10.87087684	-1.047568857	1.011948112
1.099557429	1.308996939	63	75	-8.444773098	-15.54156908	-9.890293455	-0.303595862	1.520602673
1.151917306	1.308996939	66	75	-8.118899066	-13.49832348	-9.604925821	0.205251699	2.02511534
1.204277184	1.308996939	69	75	-6.898274361	-12.38865891	-8.339831268	0.572279473	2.639697661
1.256637061	1.308996939	72	75	-5.520698542	-11.88293796	-6.661928139	0.881478268	3.105090041
1.308996939	1.308996939	75	75	-5.555690283	-11.52862733	-6.821082226	1.140229555	-2.829919542
1.361356817	1.308996939	78	75	-6.944597415	-11.34193735	-8.905252388	1.339220943	-2.452080055
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
1.518436449	1.308996939	87	75	-10.33489279	-12.62510151	-14.20888409	1.635148447	-1.951325909
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
1.675516082	1.308996939	96	75	-7.391231444	-11.09097075	-9.806693382	1.432477195	0.294065037
1.72787596	1.308996939	99	75	-6.461089939	-10.19910355	-8.848293087	1.454270695	0.725504614
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
1.93731547	1.308996939	111	75	-8.079933021	-13.88740831	-9.402751236	1.373721825	0.525865423
1.989675347	1.308996939	114	75	-11.39141802	-18.57221823	-12.31402868	0.895058787	0.314690143
2.042035225	1.308996939	117	75	-13.99616944	-18.52756854	-15.88214465	0.093573527	-0.506922749
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
2.408554368	1.308996939	138	75	-6.154519715	-15.70264537	-6.665332895	2.143541141	2.245901942
2.460914245	1.308996939	141	75	-5.548451744	-17.38049524	-5.843047502	1.267281382	1.228818403
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
2.617993878	1.308996939	150	75	-2.833349091	-10.64101301	-3.619950112	-0.894622727	-0.823125024
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	3.030533464	2.581464886
2.879793266	1.308996939	165	75	1.102044774	-9.849036241	2.347755142	2.310801043	1.813518476
2.932153143	1.308996939	168	75	1.155116275	-10.09946974	2.101037905	1.343715213	0.88645093
2.984513021	1.308996939	171	75	1.283495306	-8.44182441	2.874013928	0.537740112	0.030102575
3.036872899	1.308996939	174	75	1.118193613	-7.87606017	1.881675742	-0.093126244	-0.731516256
3.089232776	1.308996939	177	75	0.73886982	-8.376200153	0.170842582	-0.731170475	-1.765287756
3.141592654	1.308996939	180	75	1.255175636	-9.163881858	0.841761515	-1.342754704	-2.700833444
-3.14159265	1.570796327	-180	90	1.25517547	-8.126753235	0.723164646	2.588946984	0.521896374
-3.08923278	1.570796327	-177	90	-0.125412152	-9.016410578	-0.72569058	2.106657466	-0.047506653
-3.0368729	1.570796327	-174	90	-4.098183324	-10.83522691	-5.132812951	1.430899372	-0.839024953
-2.98451302	1.570796327	-171	90	-5.403695351	-11.20712098	-6.727956438	0.796723497	-2.009648244
-2.93215314	1.570796327	-168	90	-5.832871368	-12.55523191	-6.871459279	0.479747902	-2.800940977
-2.87979327	1.570796327	-165	90	-7.794113124	-17.55516557	-8.279067845	0.339007767	2.634380794
-2.82743339	1.570796327	-162	90	-7.40195177	-36.27590178	-7.407583877	-0.49814667	1.835699189
-2.77507351	1.570796327	-159	90	-7.410101627	-20.29949334	-7.639323374	-2.682846045	1.228536234
-2.72271363	1.570796327	-156	90	-7.315859513	-15.0908175	-8.108984066	-2.942903595	0.226273698
-2.67035376	1.570796327	-153	90	-3.302872158	-12.7374001	-3.828074977	3.010084941	-0.657563908
-2.61799388	1.570796327	-150	90	-0.816009843	-12.2952394	-1.136479037	2.643870596	-1.180959794
-2.565634	1.570796327	-147	90	-0.511650728	-14.41468753	-0.692149525	2.175232267	-1.763079
-2.51327412	1.570796327	-144	90	-0.415890831	-18.31794095	-0.486868766	1.295504917	-2.477770965
-2.46091425	1.570796327	-141	90	-0.245831529	-18.7479888	-0.307583743	0.228422595	3.137850698
-2.40855437	1.570796327	-138	90	-1.25908367	-20.80186289	-1.307604719	-0.568922696	2.45406051
-2.35619449	1.570796327	-135	90	-1.889662827	-22.87635232	-1.924404545	-2.0430705	1.643502159
-2.30383461	1.570796327	-132	90	-1.227154337	-18.12667234	-1.31675367	-2.946346477	0.989520752
-2.25147474	1.570796327	-129	90	-1.510455546	-17.41604286	-1.623398855	2.894604166	0.541100916
-2.19911486	1.570796327	-126	90	-2.81816393	-19.65824244	-2.909010994	2.350714642	0.120689594
-2.14675498	1.570796327	-123	90	-3.807581659	-21.23631708	-3.886807349	1.557998931	-0.327996548
-2.0943951	1.570796327	-120	90	-4.389608895	-20.26004875	-4.5034821	0.845449203	-0.752857061

-2.04203522	1.570796327	-117	90	-5.485621902	-17.92117194	-5.740849838	0.305336322	-1.24165363
-1.98967535	1.570796327	-114	90	-6.196023248	-15.06140628	-6.800111465	-0.019645091	-1.924459159
-1.93731547	1.570796327	-111	90	-5.648992598	-13.21399038	-6.485434111	-0.150196649	-2.592098473
-1.88495559	1.570796327	-108	90	-5.738444934	-12.92015285	-6.66084078	-0.155241266	-3.098824057
-1.83259571	1.570796327	-105	90	-6.881032111	-13.69182569	-7.896034617	-0.06834764	2.716059705
-1.78023584	1.570796327	-102	90	-7.982960001	-14.32269407	-9.13097616	0.056699614	2.270531393
-1.72787596	1.570796327	-99	90	-8.630416939	-14.06410464	-10.09449755	0.130088723	1.917091578
-1.67551608	1.570796327	-96	90	-9.234344203	-13.45414091	-11.29965546	0.159093639	1.570137561
-1.6231562	1.570796327	-93	90	-9.95435121	-13.22402576	-12.71989811	0.217808177	1.107167769
-1.57079633	1.570796327	-90	90	-11.02867553	-13.48296159	-14.67677262	0.325586289	0.549476506
-1.51843645	1.570796327	-87	90	-12.70055205	-14.05335392	-18.4249104	0.420317921	-0.254065183
-1.46607657	1.570796327	-84	90	-13.66376686	-15.12474059	-19.10521398	0.426616282	-1.460681605
-1.41371669	1.570796327	-81	90	-14.91061729	-17.05562954	-19.00261492	0.340038715	-2.182506429
-1.36135682	1.570796327	-78	90	-18.09963529	-19.93490267	-22.72585166	0.230862559	2.835332797
-1.30899694	1.570796327	-75	90	-13.97373943	-23.27698154	-14.51611043	0.208180999	1.836132654
-1.25663706	1.570796327	-72	90	-9.107850794	-25.75843396	-9.202794136	0.252631754	1.761942225
-1.20427718	1.570796327	-69	90	-5.911056641	-27.51454609	-5.941182594	0.065156977	1.796508084
-1.15191731	1.570796327	-66	90	-3.543396521	-29.10903331	-3.55546977	-0.564299202	1.778832225
-1.09955743	1.570796327	-63	90	-1.7787197	-29.0660196	-1.786837908	-1.211850386	1.7364567
-1.04719755	1.570796327	-60	90	-0.76185781	-33.06256891	-0.76441546	-1.028400947	1.767306437
-0.99483767	1.570796327	-57	90	-0.560127599	-25.88914145	-0.572877895	0.450600037	1.939463717
-0.9424778	1.570796327	-54	90	-0.765791485	-18.3755367	-0.841754537	0.57908464	2.256496012
-0.89011792	1.570796327	-51	90	-1.018906168	-15.96781298	-1.160139155	0.59096134	2.656326054
-0.83775804	1.570796327	-48	90	-1.395755458	-17.31912106	-1.50823134	0.728361395	3.097577452
-0.78539816	1.570796327	-45	90	-1.503041732	-20.38561109	-1.559581143	1.414326802	-2.694159972
-0.73303829	1.570796327	-42	90	-0.790902808	-16.85126455	-0.899841888	2.18242599	-2.199050009
-0.68067841	1.570796327	-39	90	0.166004851	-13.73738718	-0.014478872	2.325013666	-1.743889486
-0.62831853	1.570796327	-36	90	0.726032423	-13.53987564	0.560281991	2.281972511	-1.294219078
-0.57595865	1.570796327	-33	90	0.763879995	-16.74422962	0.686102054	2.153848469	-0.826895312
-0.52359878	1.570796327	-30	90	0.079645839	-27.70362247	0.072404489	1.411854987	-0.330374905
-0.4712389	1.570796327	-27	90	-1.26211174	-19.3333484	-1.330356358	-0.522418987	0.278395623
-0.41887902	1.570796327	-24	90	-1.751106321	-13.89422561	-2.02468322	-0.71535928	1.030611449
-0.36651914	1.570796327	-21	90	-1.333901503	-12.24687547	-1.700938218	-0.839501492	1.665713279
-0.31415927	1.570796327	-18	90	-2.39562187	-12.47180844	-2.844813516	-1.011813724	2.162304466
-0.26179939	1.570796327	-15	90	-5.672630963	-13.75273993	-6.407110961	-1.240061218	2.836134709
-0.20943951	1.570796327	-12	90	-7.367167735	-15.83557922	-8.03373724	-1.458058937	-2.330818189
-0.15707963	1.570796327	-9	90	-6.703941216	-19.12463152	-6.96007024	-1.56625273	-0.277744443
-0.10471976	1.570796327	-6	90	-8.706203218	-23.47975552	-8.853355128	-1.426116389	-0.816062673
-0.05235988	1.570796327	-3	90	-11.12406786	-25.24360706	-11.2956134	-1.059730838	0.416989927
-4.4409E-16	1.570796327	0	90	-8.308117794	-23.84124799	-8.431319527	-1.008255	1.633320876
0.052359878	1.570796327	3	90	-5.4168321	-23.23456644	-5.489213154	1.964979113	-0.64423585
0.104719755	1.570796327	6	90	-3.447821859	-25.49199957	-3.47503172	1.775627471	0.080427953
0.157079633	1.570796327	9	90	-2.734451901	-34.28021943	-2.737495305	1.775898713	0.761543328
0.20943951	1.570796327	12	90	-2.662766514	-31.75546296	-2.668121797	-2.620157188	1.523551073
0.261799388	1.570796327	15	90	-1.966456853	-22.74887525	-2.002878728	-2.862448817	2.302922494
0.314159265	1.570796327	18	90	-1.28941847	-17.62933674	-1.391485587	-3.130526555	2.978863457
0.366519143	1.570796327	21	90	-1.305614492	-14.79620587	-1.504513291	3.016314582	-2.655713245
0.41887902	1.570796327	24	90	-1.508907568	-13.84323337	-1.770338957	2.990260811	-1.984649492
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	-0.724788875
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
0.680678408	1.570796327	39	90	-4.940122765	-22.06813578	-5.025084658	-0.434263597	1.522091782
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
0.994837674	1.570796327	57	90	-9.84051102	-26.24800951	-9.940983799	-1.90745559	-1.382722711
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	2.761025908
2.827433388	1.570796327	162	90	1.116294608	-24.28272132	1.504853855	-3.051037195	2.053295181
2.879793266	1.570796327	165	90	1.279822651	-19.53157345	1.747593031	-3.110541986	1.326489839
2.932153143	1.570796327	168	90	1.209667272	-18.01309362	2.168212042	2.440132169	0.542181539
2.984513021	1.570796327	171	90	1.288065562	-15.90956429	2.424798035	1.539621946	-0.156998745
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
-3.14159265	1.832595715	-180	105	1.255175758	-4.89119286	0.046891138	3.03831165	0.610828655
-3.08923278	1.832595715	-177	105	0.41344339	-5.443077907	-0.892043925	2.651521756	0.157735259
-3.0368729	1.832595715	-174	105	-1.853497453	-7.185584941	-3.35898686	2.092646931	-0.449511995
-2.98451302	1.832595715	-171	105	-2.391173617	-7.130095732	-4.168321905	1.445800309	-1.305719543
-2.93215314	1.832595715	-168	105	-1.328965053	-6.431229153	-2.933358049	1.025588513	-1.991515302
-2.87979327	1.832595715	-165	105	-1.235855244	-7.32559012	-2.462440046	0.665839857	-2.572083037
-2.82743339	1.832595715	-162	105	-1.545776693	-9.337368299	-2.335576136	0.068257551	3.04595536
-2.77507351	1.832595715	-159	105	-1.003369658	-9.287584838	-1.701265127	-0.758854575	2.335456009
-2.72271363	1.832595715	-156	105	-0.041632215	-7.961420618	-0.806310065	-1.429701886	1.634400484
-2.67035376	1.832595715	-153	105	1.023096023	-7.312985179	0.334179208	-2.036696068	0.97566366
-2.61799388	1.832595715	-150	105	1.145473222	-6.905265593	1.108423033	-2.622135167	0.430953879
-2.565634	1.832595715	-147	105	1.140134262	-7.236449809	0.458142124	-3.139970942	-0.039796634
-2.51327412	1.832595715	-144	105	-1.163113176	-8.82493711	-1.979264327	2.56965613	-0.57576903
-2.46091425	1.832595715	-141	105	-3.696306527	-9.685324111	-4.956272581	1.82373034	-1.348324494
-2.40855437	1.832595715	-138	105	-3.801177064	-8.449876051	-5.624667321	1.233496216	-2.204787095
-2.35619449	1.832595715	-135	105	-3.059976947	-7.584310361	-4.949799467	0.899772018	-2.806039857
-2.30383461	1.832595715	-132	105	-2.704255238	-7.765502373	-4.327104821	0.654378694	3.100953667
-2.25147474	1.832595715	-129	105	-2.646377939	-8.677650374	-3.892213618	0.410218868	2.864886202
-2.19911486	1.832595715	-126	105	-2.976376062	-10.38609373	-3.846525473	0.150695251	2.656993682
-2.14675498	1.832595715	-123	105	-3.828469572	-13.64589718	-4.30681231	-0.186574855	2.369878479
-2.0943951	1.832595715	-120	105	-4.740743389	-18.14595804	-4.94368467	-0.925209687	1.989539378
-2.04203522	1.832595715	-117	105	-5.472839379	-16.9415749	-5.794113269	-1.892052394	1.618751813
-1.98967535	1.832595715	-114	105	-7.027341483	-14.45515976	-7.893485629	-2.253955718	1.309871499
-1.93731547	1.832595715	-111	105	-9.916732865	-13.75804148	-12.22978266	-2.40408806	0.948530452
-1.88495559	1.832595715	-108	105	-12.16260042	-13.67464232	-17.47891362	-2.534388313	0.192348449
-1.83259571	1.832595715	-105	105	-11.83698023	-13.11929591	-17.7602672	-2.67516616	-0.647728212
-1.78023584	1.832595715	-102	105	-11.01221412	-12.04189665	-17.76769767	-2.793673437	-1.13387533
-1.72787596	1.832595715	-99	105	-10.22500962	-11.01533392	-18.01397061	-2.888680962	-1.791852524

-1.67551608	1.832595715	-96	105	-9.224933745	-10.39107418	-15.50529949	-2.974744143	-2.428073319
-1.6231562	1.832595715	-93	105	-8.606542575	-10.33085838	-13.45188707	-3.038272408	-2.790903593
-1.57079633	1.832595715	-90	105	-9.002669118	-11.04100945	-13.26712645	-3.038705927	-3.083799189
-1.51843645	1.832595715	-87	105	-10.21845532	-12.53867222	-14.04959434	-2.921859917	2.901863225
-1.46607657	1.832595715	-84	105	-11.22498759	-13.85606219	-14.65082265	-2.661249888	2.744542251
-1.41371669	1.832595715	-81	105	-10.92441632	-13.46677976	-14.45922838	-2.416651728	2.904278485
-1.36135682	1.832595715	-78	105	-9.228556723	-11.91664308	-12.58690568	-2.353390703	-3.037792702
-1.30899694	1.832595715	-75	105	-7.155763122	-10.45897619	-9.891663619	-2.376753114	-2.773297109
-1.25663706	1.832595715	-72	105	-5.472470654	-9.759631919	-7.497269156	-2.362461342	-2.601462929
-1.20427718	1.832595715	-69	105	-4.116874321	-9.814866997	-5.479351974	-2.254723403	-2.481813179
-1.15191731	1.832595715	-66	105	-2.805333231	-9.860984479	-3.758100868	-2.071000456	-2.400698208
-1.09955743	1.832595715	-63	105	-1.619446981	-9.241360818	-2.443895251	-1.921998739	-2.341021787
-1.04719755	1.832595715	-60	105	-0.890924178	-8.404802422	-1.738301136	-1.880427541	-2.265275187
-0.99483767	1.832595715	-57	105	-0.869698431	-8.175842835	-1.76316336	-1.901051658	-2.119746285
-0.9424778	1.832595715	-54	105	-1.496273005	-9.213766505	-2.301003294	-1.903085479	-1.846636209
-0.89011792	1.832595715	-51	105	-2.080255266	-11.94369772	-2.553271719	-1.770145723	-1.43981259
-0.83775804	1.832595715	-48	105	-1.757091523	-15.0063676	-1.96763478	-1.25183985	-1.010993278
-0.78539816	1.832595715	-45	105	-0.834487475	-13.43797962	-1.079755414	-0.621999282	-0.460980899
-0.73303829	1.832595715	-42	105	0.066728081	-10.7977033	-0.304615626	-0.400029495	-0.326912845
-0.68067841	1.832595715	-39	105	0.797906514	-9.716816975	0.393931843	-0.302872385	-0.026583549
-0.62831853	1.832595715	-36	105	1.198705069	-10.07264104	0.861897979	-0.136753913	0.256830338
-0.57595865	1.832595715	-33	105	0.931096385	-11.00118704	0.643450007	0.185255094	0.552964482
-0.52359878	1.832595715	-30	105	-0.148910151	-11.37755893	-0.48917868	0.567994898	0.943426969
-0.4712389	1.832595715	-27	105	-1.320730417	-12.0404186	-1.705232563	0.82398756	1.507516812
-0.41887902	1.832595715	-24	105	-1.576952201	-15.22450518	-1.768632636	0.927226633	2.107972285
-0.36651914	1.832595715	-21	105	-1.964553076	-27.40323609	-1.976984975	0.641631424	2.569864797
-0.31415927	1.832595715	-18	105	-3.774398932	-19.22567916	-3.899978838	-1.775491319	3.002086528
-0.26179939	1.832595715	-15	105	-6.345937285	-13.68784376	-7.231274632	-1.775619357	-2.628423095
-0.20943951	1.832595715	-12	105	-7.193901799	-12.9583178	-8.532155754	-1.643748823	-1.745040949
-0.15707963	1.832595715	-9	105	-7.853888777	-15.05552871	-8.771581475	-1.362776051	-1.074254953
-0.10471976	1.832595715	-6	105	-10.34115183	-18.85531161	-11.00017862	-0.805533021	-0.350571461
-0.05235988	1.832595715	-3	105	-11.12075741	-22.12302871	-11.48000663	0.015978428	0.777249165
-4.4409E-16	1.832595715	0	105	-8.308117615	-25.55272193	-8.39080739	1.034141809	1.654273596
0.052359878	1.832595715	3	105	-5.956672444	-23.43652842	-6.034962633	-0.676182588	-0.833209239
0.104719755	1.832595715	6	105	-3.977184682	-18.44009895	-4.13544865	0.00991516	-0.240600451
0.157079633	1.832595715	9	105	-2.582086866	-16.21603234	-2.77438234	0.510856492	0.270072283
0.20943951	1.832595715	12	105	-2.186234204	-14.58644325	-2.443610575	1.140074662	0.757353188
0.261799388	1.832595715	15	105	-2.245977648	-11.68798567	-2.770219846	1.725002963	1.324656687
0.314159265	1.832595715	18	105	-1.722885785	-9.173124127	-2.584097031	2.10574551	1.968824911
0.366519143	1.832595715	21	105	-0.877779229	-8.298655986	-1.745456971	2.388353976	2.557417834
0.41887902	1.832595715	24	105	-0.558965555	-9.240517722	-1.191167461	2.687248474	3.067106138
0.471238898	1.832595715	27	105	-0.921829141	-11.80900477	-1.291148314	3.12048515	-2.721937867
0.523598776	1.832595715	30	105	-1.704181477	-14.66550905	-1.929538279	2.430294545	-2.199924493
0.575958653	1.832595715	33	105	-2.568195554	-14.42144914	-2.861306527	-1.541651753	-1.636072077
0.628318531	1.832595715	36	105	-3.224448998	-12.35240128	-3.790679204	-0.937223176	-1.045161063
0.680678408	1.832595715	39	105	-3.719833486	-11.08195654	-4.600612432	-0.544508728	-0.47218521
0.733038286	1.832595715	42	105	-4.414980745	-11.11191407	-5.46046372	-0.217087569	0.053270142
0.785398163	1.832595715	45	105	-5.427110772	-12.3229203	-6.420004157	0.13793297	0.536539011
0.837758041	1.832595715	48	105	-6.58641588	-14.27632276	-7.396783637	0.56211655	0.985858181
0.890117919	1.832595715	51	105	-7.932988227	-16.77494933	-8.540582673	1.052193904	1.434957392
0.942477796	1.832595715	54	105	-9.424296768	-20.2355241	-9.800421685	1.636104994	1.984774925
0.994837674	1.832595715	57	105	-9.675961609	-21.64909053	-9.960825066	2.590144462	2.666734353
1.047197551	1.832595715	60	105	-8.336408844	-18.52061545	-8.773990432	-3.068764229	-3.013833355
1.099557429	1.832595715	63	105	-7.298494666	-16.28239634	-7.885169875	-2.840649903	-2.546315628
1.151917306	1.832595715	66	105	-6.925934865	-15.5418194	-7.568517379	-2.704746686	-2.117971107
1.204277184	1.832595715	69	105	-6.517297504	-15.6269653	-7.086080134	-2.555989517	-1.73002308
1.256637061	1.832595715	72	105	-5.912368712	-15.84573113	-6.377411306	-2.401293534	-1.460103334
1.308996939	1.832595715	75	105	-5.685560096	-16.02801871	-6.106698885	-2.275536934	-1.304131351
1.361356817	1.832595715	78	105	-6.333064812	-16.48599225	-6.773975478	-2.139892954	-1.193965302
1.413716694	1.832595715	81	105	-8.017414267	-17.30065148	-8.562453251	-1.904920186	-1.075992035
1.466076572	1.832595715	84	105	-10.4403969	-17.81843261	-11.31760613	-1.568056465	-0.947811795
1.518436449	1.832595715	87	105	-12.92203144	-17.77419819	-14.64302586	-1.289155381	-0.888695525
1.570796327	1.832595715	90	105	-15.07495005	-17.78775744	-18.4046293	-1.151926828	-1.028280865
1.623156204	1.832595715	93	105	-16.7014404	-17.68621408	-23.62900589	-1.061829149	-1.548469341

1.675516082	1.832595715	96	105	-16.07869587	-16.9524538	-23.47218442	-0.896408059	-3.07266218
1.72787596	1.832595715	99	105	-12.89954084	-15.96856442	-15.85190062	-0.684049593	2.692819832
1.780235837	1.832595715	102	105	-10.46267342	-15.96881842	-11.89804178	-0.53041074	2.641514485
1.832595715	1.832595715	105	105	-9.518519799	-17.9520997	-10.19089457	-0.538880404	2.695783805
1.884955592	1.832595715	108	105	-9.518390352	-20.84705624	-9.850608018	-0.934606941	2.745710935
1.93731547	1.832595715	111	105	-10.0226216	-19.76457955	-10.50983767	-1.450318354	2.711178057
1.989675347	1.832595715	114	105	-11.26190075	-18.31483759	-12.21533451	-1.560808757	2.529919379
2.042035225	1.832595715	117	105	-13.82663621	-19.79176321	-15.09467313	-1.612753078	2.075389879
2.094395102	1.832595715	120	105	-15.17620816	-23.55403113	-15.85798967	-2.174758512	1.168358377
2.14675498	1.832595715	123	105	-11.69620729	-20.21169025	-12.35501729	-2.907924679	0.543700916
2.199114858	1.832595715	126	105	-9.378374536	-17.15076701	-10.1720133	-2.888593737	0.273224499
2.251474735	1.832595715	129	105	-9.111669672	-16.95444779	-9.891332043	-2.679790175	0.01397207
2.303834613	1.832595715	132	105	-9.398426608	-19.59381276	-9.834824763	-2.702952634	-0.440019238
2.35619449	1.832595715	135	105	-7.540898324	-19.85722178	-7.803449141	2.573502741	-0.938635665
2.408554368	1.832595715	138	105	-4.820047758	-12.8914038	-5.55614252	2.088593379	-1.262930361
2.460914245	1.832595715	141	105	-3.567277944	-9.614844786	-4.807713416	1.963431244	-1.555932264
2.513274123	1.832595715	144	105	-3.843550791	-9.473039966	-5.231547597	1.766497852	-2.011904046
2.565634	1.832595715	147	105	-3.747135754	-10.86252406	-4.685374069	1.284889061	-2.663141539
2.617993878	1.832595715	150	105	-2.012797596	-10.41874888	-2.689815946	0.610033066	3.05394654
2.670353756	1.832595715	153	105	-0.523045686	-9.317984382	-1.137745336	0.133058531	2.610867892
2.722713633	1.832595715	156	105	-0.022972472	-10.19176411	-0.462191377	-0.290328187	2.165378869
2.775073511	1.832595715	159	105	-0.02319818	-13.09137479	-0.242937249	-0.974330102	1.647226911
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
-3.14159265	2.094395102	-180	120	1.255175522	-2.316813359	-1.257831621	-3.020466133	0.722628588
-3.08923278	2.094395102	-177	120	0.867609633	-2.502600826	-1.810337292	3.018785351	0.407440838
-3.0368729	2.094395102	-174	120	-0.366751082	-3.589565104	-3.174452642	2.657330913	-0.045318231
-2.98451302	2.094395102	-171	120	-1.043637705	-3.961705968	-4.14817067	2.150092802	-0.680370404
-2.93215314	2.094395102	-168	120	-0.437939386	-3.210971428	-3.699222834	1.708011796	-1.346791474
-2.87979327	2.094395102	-165	120	0.238581636	-2.907094154	-2.640435095	1.385919608	-1.896583475
-2.82743339	2.094395102	-162	120	0.284478224	-3.638216685	-1.972228274	1.05796265	-2.352642684
-2.77507351	2.094395102	-159	120	-0.140320831	-4.717065211	-2.001833545	0.601505748	-0.802947188
-2.72271363	2.094395102	-156	120	-0.338926275	-4.722219783	-2.307616539	0.041150085	2.949886791
-2.67035376	2.094395102	-153	120	0.250377027	-3.70489818	-1.984268498	-0.448286207	2.368227186
-2.61799388	2.094395102	-150	120	0.974792508	-2.904373792	-1.311826232	-0.827280634	1.869030281
-2.565634	2.094395102	-147	120	0.902506775	-2.884226446	-1.449343864	-1.139322004	1.464164959
-2.51327412	2.094395102	-144	120	-0.221988551	-3.696719999	-2.812759764	-1.414716191	1.078762439
-2.46091425	2.094395102	-141	120	-1.952102058	-5.044572779	-4.881757138	-1.677392708	0.66722176
-2.40855437	2.094395102	-138	120	-3.376686398	-6.217561953	-6.563289499	-1.948820873	0.296533714
-2.35619449	2.094395102	-135	120	-3.901399985	-6.609787659	-7.236179089	-2.231881461	0.071506359
-2.30383461	2.094395102	-132	120	-3.750598815	-6.556234938	-6.975686573	-2.530792795	-0.092100414
-2.25147474	2.094395102	-129	120	-3.565368997	-6.784478502	-6.376440123	-2.886357279	-0.347505665
-2.19911486	2.094395102	-126	120	-3.525706721	-7.302989262	-5.884361726	2.944860018	-0.707152291
-2.14675498	2.094395102	-123	120	-3.483860424	-7.468448745	-5.698892537	2.453986965	-1.085359001
-2.0943951	2.094395102	-120	120	-3.638170383	-7.299950475	-6.082090753	2.059846228	-1.400488092
-2.04203522	2.094395102	-117	120	-4.150050891	-7.274945579	-7.048702288	1.814000818	-1.598747039
-1.98967535	2.094395102	-114	120	-4.666742212	-7.321925323	-8.063803141	1.691402173	-1.655215416
-1.93731547	2.094395102	-111	120	-4.783113778	-7.220034821	-8.454176184	1.635733348	-1.643934712
-1.88495559	2.094395102	-108	120	-4.793845569	-7.177558618	-8.53662713	1.583342334	-1.694483656
-1.83259571	2.094395102	-105	120	-5.19112966	-7.500137004	-9.038192145	1.491734819	-1.829927873
-1.78023584	2.094395102	-102	120	-5.888724523	-7.941993845	-10.12837026	1.341019695	-1.977214772
-1.72787596	2.094395102	-99	120	-6.274749285	-7.743928636	-11.69574487	1.163783475	-2.032744398
-1.67551608	2.094395102	-96	120	-5.930782203	-6.742480134	-13.61421062	1.049053213	-1.946805283
-1.6231562	2.094395102	-93	120	-5.252376352	-5.626535424	-16.08539316	1.035197706	-1.775705141
-1.57079633	2.094395102	-90	120	-4.692958839	-4.820733763	-20.07007648	1.095490292	-1.54928065
-1.51843645	2.094395102	-87	120	-4.143650448	-4.179236901	-25.02642765	1.171657727	-1.042424766
-1.46607657	2.094395102	-84	120	-3.454978341	-3.491833706	-24.18622898	1.183798962	-0.472594504
-1.41371669	2.094395102	-81	120	-2.751925523	-2.823387069	-20.62472631	1.088927058	-0.323107875
-1.36135682	2.094395102	-78	120	-2.219464639	-2.353411346	-17.39478857	0.922102774	-0.034645681

-1.30899694	2.094395102	-75	120	-1.985762112	-2.327935534	-13.19110595	0.762798092	0.388219339
-1.25663706	2.094395102	-72	120	-1.979592834	-2.952122392	-8.955602184	0.689801277	0.631122094
-1.20427718	2.094395102	-69	120	-1.966823892	-3.938811128	-6.344374604	0.760291297	0.706067455
-1.15191731	2.094395102	-66	120	-1.828099412	-4.32288689	-5.423450693	0.933935673	0.706814348
-1.09955743	2.094395102	-63	120	-1.687002768	-3.937611807	-5.618661656	1.045390178	0.709557007
-1.04719755	2.094395102	-60	120	-1.746339264	-3.771905731	-6.032207898	1.039141522	0.793177391
-0.99483767	2.094395102	-57	120	-2.018967776	-4.395630316	-5.771409017	1.002457684	0.982325832
-0.9424778	2.094395102	-54	120	-2.271954803	-5.780395157	-4.835417496	1.073544339	1.210505508
-0.89011792	2.094395102	-51	120	-2.15244868	-6.912910023	-3.918746869	1.37037785	1.444834667
-0.83775804	2.094395102	-48	120	-1.450483057	-6.278457763	-3.183290371	1.747182029	1.698864795
-0.78539816	2.094395102	-45	120	-0.507832513	-5.116398451	-2.352411163	1.975840762	1.941916569
-0.73303829	2.094395102	-42	120	0.123169924	-4.828088851	-1.550443411	2.101634797	2.117052563
-0.68067841	2.094395102	-39	120	0.17203577	-5.403340274	-1.236514697	2.212381149	2.225725868
-0.62831853	2.094395102	-36	120	-0.399183719	-6.318939218	-1.682713053	2.350054508	2.326580579
-0.57595865	2.094395102	-33	120	-1.462213263	-7.234497884	-2.79763095	2.514613216	2.500532016
-0.52359878	2.094395102	-30	120	-2.600456643	-8.386295285	-3.931005098	2.708266816	2.804889253
-0.4712389	2.094395102	-27	120	-3.307562705	-10.17065878	-4.308899027	2.988759867	-3.108588946
-0.41887902	2.094395102	-24	120	-3.794666333	-12.11145495	-4.486908251	-2.826983224	-2.781916032
-0.36651914	2.094395102	-21	120	-4.767802333	-12.51050665	-5.567418219	-2.240835625	-2.483597534
-0.31415927	2.094395102	-18	120	-6.315081015	-11.8441564	-7.741501085	-1.788042553	-2.061719157
-0.26179939	2.094395102	-15	120	-7.523616132	-11.89056368	-9.501708776	-1.455609162	-1.438796829
-0.20943951	2.094395102	-12	120	-8.208529766	-13.1631417	-9.880567512	-1.117970802	-0.844001088
-0.15707963	2.094395102	-9	120	-9.642442557	-15.4302531	-10.97228433	-0.660093526	-0.338033633
-0.10471976	2.094395102	-6	120	-11.4904541	-17.59017508	-12.71378489	0.001026888	0.364070359
-0.05235988	2.094395102	-3	120	-10.55904442	-18.03397981	-11.41485761	0.768646242	1.169928747
-4.4409E-16	2.094395102	0	120	-8.308118013	-16.88825317	-8.956428663	1.445750185	1.676532317
0.052359878	2.094395102	3	120	-6.608876305	-15.07184824	-7.276348827	-1.154137076	-1.054202965
0.104719755	2.094395102	6	120	-4.784565393	-13.17021352	-5.465018195	-0.710417177	-0.635056183
0.157079633	2.094395102	9	120	-2.742132689	-11.44970101	-3.370271989	-0.294571017	-0.294801373
0.20943951	2.094395102	12	120	-1.339045096	-9.785954333	-2.00919189	0.142659407	-0.04216952
0.261799388	2.094395102	15	120	-0.985000863	-7.989300896	-1.950458651	0.586057918	0.224468784
0.314159265	2.094395102	18	120	-1.157234974	-6.242013668	-2.769465063	0.99167024	0.639899802
0.366519143	2.094395102	21	120	-0.610495059	-4.915600064	-2.624670527	1.346102585	1.219134369
0.41887902	2.094395102	24	120	0.634434434	-4.237157654	-1.077145226	1.663798544	1.706229139
0.471238898	2.094395102	27	120	1.43145307	-4.27833767	0.073315046	1.970842633	2.04243575
0.523598776	2.094395102	30	120	1.365027318	-4.968192852	0.21503831	2.306009245	2.333272081
0.575958653	2.094395102	33	120	0.648934461	-5.944708779	-0.425092508	2.710306712	2.641041283
0.628318531	2.094395102	36	120	-0.364710804	-6.609696219	-1.541807373	-3.113152733	2.976210171
0.680678408	2.094395102	39	120	-1.523111518	-6.98622475	-2.975451104	-2.676252532	-2.942225311
0.733038286	2.094395102	42	120	-2.724221747	-7.814132038	-4.334147074	-2.273478313	-2.528877224
0.785398163	2.094395102	45	120	-3.515760369	-9.326711227	-4.837341713	-1.822133107	-2.105181151
0.837758041	2.094395102	48	120	-3.556858669	-10.58606108	-4.516139094	-1.273759463	-1.774513995
0.890117919	2.094395102	51	120	-3.367757545	-10.8184762	-4.22886345	-0.754233058	-1.541774688
0.942477796	2.094395102	54	120	-3.582844586	-10.82563371	-4.490911649	-0.339523697	-1.334222274
0.994837674	2.094395102	57	120	-4.324315398	-10.87833656	-5.409524309	0.045794241	-1.092547137
1.047197551	2.094395102	60	120	-5.359504182	-10.43630552	-6.975325	0.417913372	-0.789419328
1.099557429	2.094395102	63	120	-6.414456269	-9.612949186	-9.244380657	0.714392072	-0.398963823
1.151917306	2.094395102	66	120	-7.236153224	-9.027890533	-11.94636502	0.930948665	0.157777852
1.204277184	2.094395102	69	120	-7.455038383	-8.798385444	-13.20537317	1.103576108	0.89721855
1.256637061	2.094395102	72	120	-7.072789927	-8.605286322	-12.34037777	1.24088045	1.492146671
1.308996939	2.094395102	75	120	-6.657321121	-8.249385114	-11.78730034	1.32679252	1.840434115
1.361356817	2.094395102	78	120	-6.625946935	-7.895307859	-12.58717149	1.363633928	2.073896697
1.413716694	2.094395102	81	120	-7.031487193	-7.834854011	-14.75568457	1.37768381	2.320270573
1.466076572	2.094395102	84	120	-7.761982457	-8.271730623	-17.31865026	1.392741024	2.721263172
1.518436449	2.094395102	87	120	-8.792660592	-9.355421255	-17.94560868	1.419278277	-3.071257333
1.570796327	2.094395102	90	120	-10.41484566	-11.35265375	-17.53201846	1.46358931	-2.765110926
1.623156204	2.094395102	93	120	-13.26461151	-14.75898426	-18.62364763	1.547965443	-2.510079648
1.675516082	2.094395102	96	120	-17.44444957	-20.06995432	-20.87698243	1.747282361	-1.906686687
1.72787596	2.094395102	99	120	-17.77380227	-25.69107694	-18.53896425	2.150059486	-1.135426078
1.780235837	2.094395102	102	120	-15.30099623	-26.65947872	-15.6308523	2.197362877	-0.885957255
1.832595715	2.094395102	105	120	-14.63342507	-23.08894639	-15.30213661	1.922409493	-0.888757267
1.884955592	2.094395102	108	120	-15.32597508	-20.23663875	-17.0188061	1.909620198	-1.066241674
1.93731547	2.094395102	111	120	-15.89559657	-19.59163938	-18.31381074	2.050738111	-1.484532041
1.989675347	2.094395102	114	120	-14.7432808	-20.39870232	-16.12155214	2.07601141	-1.883405251

2.042035225	2.094395102	117	120	-12.18098167	-20.19948076	-12.92691004	1.568620287	-2.073374309
2.094395102	2.094395102	120	120	-9.549595863	-15.29650644	-10.89418485	1.045014235	-2.228994538
2.14675498	2.094395102	123	120	-7.769242717	-11.29572118	-10.31824873	0.874083868	-2.465570325
2.199114858	2.094395102	126	120	-6.944423736	-9.656341487	-10.27512863	0.790515017	-2.840435511
2.251474735	2.094395102	129	120	-6.354237365	-9.675052007	-9.074750259	0.66327467	3.039022655
2.303834613	2.094395102	132	120	-5.190036975	-9.995760311	-6.933796468	0.4298108	2.803799566
2.35619449	2.094395102	135	120	-3.745110022	-9.407519442	-5.120774302	0.171913592	2.694457005
2.408554368	2.094395102	138	120	-2.900814714	-8.684879609	-4.231999208	-0.00439409	2.574677345
2.460914245	2.094395102	141	120	-3.049877062	-9.186611539	-4.261232925	-0.169475645	2.334214268
2.513274123	2.094395102	144	120	-3.426023397	-11.14837617	-4.229765128	-0.523910712	1.93354335
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
2.827433388	2.094395102	162	120	0.893789242	-5.050227547	0.27683889	2.763531897	-0.205748266
2.879793266	2.094395102	165	120	1.101603478	-2.777778142	0.831236674	2.360472895	-0.491206188
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
3.141592654	2.094395102	180	120	1.255175522	-2.316813359	-1.257831621	0.12112652	-2.418964065
-3.14159265	2.35619449	-180	135	1.255175789	-0.601906261	-3.329859995	-2.884237116	0.887959723
-3.08923278	2.35619449	-177	135	1.159430091	-0.535087878	-3.747696659	-2.958148776	0.736814921
-3.0368729	2.35619449	-174	135	0.393202336	-1.151766191	-4.845052341	-3.110235993	0.461910548
-2.98451302	2.35619449	-171	135	-0.768017528	-2.115796966	-6.506148279	2.934963854	0.137789041
-2.93215314	2.35619449	-168	135	-1.728784794	-2.693237643	-8.73712385	2.673724458	-0.230308783
-2.87979327	2.35619449	-165	135	-1.690362751	-2.427014396	-9.758705007	2.475726134	-0.710228896
-2.82743339	2.35619449	-162	135	-0.681810206	-1.610629506	-7.836476929	2.337627982	-1.085471624
-2.77507351	2.35619449	-159	135	0.30177224	-0.982133015	-5.616890194	2.183472183	-1.276882696
-2.72271363	2.35619449	-156	135	0.403494176	-1.090866322	-4.955571774	1.953781698	-1.459639824
-2.67035376	2.35619449	-153	135	-0.403999741	-1.824547992	-5.948213822	1.629307017	-1.75931521
-2.61799388	2.35619449	-150	135	-1.254398005	-2.520617699	-7.224888862	1.269527166	-2.198701791
-2.565634	2.35619449	-147	135	-1.598447184	-2.875527064	-7.537013527	1.003492506	-2.552370808
-2.51327412	2.35619449	-144	135	-1.69869217	-2.993619997	-7.585467701	0.875979232	-2.680339998
-2.46091425	2.35619449	-141	135	-1.510530154	-2.763868954	-7.519297293	0.80141186	-2.744695206
-2.40855437	2.35619449	-138	135	-1.088852749	-2.295706366	-7.239611918	0.684672068	-2.932855098
-2.35619449	2.35619449	-135	135	-0.774638973	-1.982229514	-6.923098493	0.527538291	3.05307381
-2.30383461	2.35619449	-132	135	-1.030610869	-2.203156002	-7.290248299	0.385789601	2.75782507
-2.25147474	2.35619449	-129	135	-2.126208888	-3.100307631	-9.095971814	0.29421509	2.473774589
-2.19911486	2.35619449	-126	135	-3.640562417	-4.363482154	-11.78395174	0.238908918	2.118902396
-2.14675498	2.35619449	-123	135	-4.642163706	-5.37100205	-12.75301862	0.161306058	1.739140685
-2.0943951	2.35619449	-120	135	-4.726214973	-5.738249755	-11.54829911	0.031364275	1.556146813
-2.04203522	2.35619449	-117	135	-4.430176263	-5.67661802	-10.45962501	-0.092797262	1.479977026
-1.98967535	2.35619449	-114	135	-4.422821179	-5.626095955	-10.58477141	-0.153758409	1.387143431
-1.93731547	2.35619449	-111	135	-4.647115739	-5.653845977	-11.48947351	-0.178883143	1.283826086
-1.88495559	2.35619449	-108	135	-4.688934636	-5.650549895	-11.70870383	-0.267230861	1.255359223
-1.83259571	2.35619449	-105	135	-4.3448666	-5.560507409	-10.46830865	-0.494744416	1.287425699
-1.78023584	2.35619449	-102	135	-3.678569673	-5.16845572	-9.048549512	-0.824945405	1.260439313
-1.72787596	2.35619449	-99	135	-3.155722251	-4.557782355	-8.748085626	-1.136137715	1.147712986
-1.67551608	2.35619449	-96	135	-3.099822534	-4.181079847	-9.66779288	-1.34529559	0.976682694
-1.6231562	2.35619449	-93	135	-3.3095375	-4.130986592	-10.94582665	-1.437553827	0.801486387
-1.57079633	2.35619449	-90	135	-3.331451388	-4.085723007	-11.30569568	-1.444248128	0.674790763
-1.51843645	2.35619449	-87	135	-3.049917124	-3.909412047	-10.50798939	-1.433221846	0.541499678
-1.46607657	2.35619449	-84	135	-2.903389273	-3.920918969	-9.704597431	-1.45636115	0.316082716
-1.41371669	2.35619449	-81	135	-3.293571115	-4.390585562	-9.806258182	-1.521884025	-0.023804427
-1.36135682	2.35619449	-78	135	-4.090784845	-5.127528319	-10.81997938	-1.614607226	-0.459498555
-1.30899694	2.35619449	-75	135	-4.622075143	-5.585421561	-11.63486657	-1.701885837	-1.08164213
-1.25663706	2.35619449	-72	135	-4.423818616	-5.47324415	-11.10629743	-1.743568714	-1.577154481
-1.20427718	2.35619449	-69	135	-3.881003181	-5.111838417	-9.957739782	-1.727328185	-1.810019869
-1.15191731	2.35619449	-66	135	-3.435201675	-4.932780629	-8.786441157	-1.669760227	-1.867282179
-1.09955743	2.35619449	-63	135	-3.175114417	-4.981114933	-7.857531563	-1.600966848	-1.904840072
-1.04719755	2.35619449	-60	135	-3.053410622	-4.965725376	-7.536788729	-1.563734697	-1.993106879
-0.99483767	2.35619449	-57	135	-2.920371908	-4.623732788	-7.809027668	-1.584401727	-2.099871981

-0.9424778	2.35619449	-54	135	-2.608424965	-3.995188428	-8.241191006	-1.635434021	-2.12961554
-0.89011792	2.35619449	-51	135	-2.122972445	-3.368678161	-8.154636069	-1.666658401	-2.01492002
-0.83775804	2.35619449	-48	135	-1.569113413	-2.951473034	-7.213607848	-1.656246788	-1.830371766
-0.78539816	2.35619449	-45	135	-1.092353864	-2.729943004	-6.121243975	-1.616450251	-1.675303864
-0.73303829	2.35619449	-42	135	-0.830354716	-2.657220231	-5.472592165	-1.572406374	-1.54293695
-0.68067841	2.35619449	-39	135	-0.781114373	-2.810534876	-5.060505179	-1.535585824	-1.404569873
-0.62831853	2.35619449	-36	135	-0.843250895	-3.32105441	-4.460582975	-1.495077718	-1.282682769
-0.57595865	2.35619449	-33	135	-0.996640592	-4.229373459	-3.795347089	-1.431221687	-1.219599521
-0.52359878	2.35619449	-30	135	-1.412851779	-5.432683613	-3.604592391	-1.332423711	-1.211186424
-0.4712389	2.35619449	-27	135	-2.380079226	-6.786988928	-4.335283129	-1.199987315	-1.213838007
-0.41887902	2.35619449	-24	135	-4.083305304	-8.256086261	-6.177496148	-1.032535375	-1.160983276
-0.36651914	2.35619449	-21	135	-6.273359419	-9.834757617	-8.794683649	-0.808239645	-0.949632291
-0.31415927	2.35619449	-18	135	-7.905220295	-11.29425466	-10.5671811	-0.507287255	-0.530111073
-0.26179939	2.35619449	-15	135	-8.412817816	-12.36299461	-10.65089733	-0.16268485	-0.128727917
-0.20943951	2.35619449	-12	135	-9.016648553	-13.2892736	-11.05010421	0.180234426	0.172260998
-0.15707963	2.35619449	-9	135	-10.29737612	-14.31734293	-12.48902813	0.551225925	0.560747541
-0.10471976	2.35619449	-6	135	-10.74181214	-14.765269	-12.93117481	0.975226348	1.120240067
-0.05235988	2.35619449	-3	135	-9.547106221	-14.025895	-11.46196194	1.332741259	1.522554344
-4.4409E-16	2.35619449	0	135	-8.308117952	-12.80216118	-10.21454384	1.538058325	1.703992634
0.052359878	2.35619449	3	135	-7.305710309	-11.54382635	-9.359904523	-1.481835684	-1.287563424
0.104719755	2.35619449	6	135	-5.83483837	-10.10207002	-7.871517881	-1.346430628	-1.070933928
0.157079633	2.35619449	9	135	-3.698993994	-8.41477409	-5.487890411	-1.160233737	-0.870442469
0.20943951	2.35619449	12	135	-1.712165981	-6.813627786	-3.316917573	-0.949120452	-0.75619335
0.261799388	2.35619449	15	135	-0.627285935	-5.804070474	-2.198784541	-0.736009312	-0.691584338
0.314159265	2.35619449	18	135	-0.639577051	-5.627616033	-2.296005273	-0.510148885	-0.609615959
0.366519143	2.35619449	21	135	-1.408654368	-5.973456998	-3.276571242	-0.246811126	-0.429767543
0.41887902	2.35619449	24	135	-1.90528517	-5.97619123	-4.063822558	0.039568221	-0.095849909
0.471238898	2.35619449	27	135	-1.221702999	-5.104834609	-3.505575825	0.270569903	0.282389773
0.523598776	2.35619449	30	135	-0.004476855	-3.875590826	-2.296684784	0.415772298	0.550365643
0.575958653	2.35619449	33	135	0.801793209	-3.049912958	-1.503958302	0.522538125	0.71541967
0.628318531	2.35619449	36	135	0.847098452	-3.047271868	-1.42901475	0.635347352	0.823020547
0.680678408	2.35619449	39	135	0.138762429	-3.898205405	-2.041766184	0.768398157	0.898837102
0.733038286	2.35619449	42	135	-1.094871364	-5.278509497	-3.182348239	0.910540823	0.965055849
0.785398163	2.35619449	45	135	-2.385657608	-6.566510035	-4.474854546	1.037835033	1.049958418
0.837758041	2.35619449	48	135	-3.099593957	-7.122482334	-5.28932932	1.142847671	1.162784213
0.890117919	2.35619449	51	135	-2.969492239	-6.85523534	-5.251558966	1.241153479	1.265422631
0.942477796	2.35619449	54	135	-2.462825964	-6.32615205	-4.760456268	1.332797852	1.330433551
0.994837674	2.35619449	57	135	-2.219227546	-6.167825639	-4.458371745	1.406408877	1.388399506
1.047197551	2.35619449	60	135	-2.550063406	-6.692281111	-4.663301032	1.477752835	1.484360479
1.099557429	2.35619449	63	135	-3.420169463	-7.879976443	-5.345579284	1.608720337	1.634157678
1.151917306	2.35619449	66	135	-4.640643706	-9.336514639	-6.439722976	1.887029144	1.811541913
1.204277184	2.35619449	69	135	-6.080363055	-10.22249309	-8.193655626	2.326714154	1.981724306
1.256637061	2.35619449	72	135	-7.635043219	-10.2536779	-11.07586355	2.816567277	2.147400381
1.308996939	2.35619449	75	135	-8.7556975	-9.779841028	-15.53194582	-3.000774414	2.331923205
1.361356817	2.35619449	78	135	-8.624914643	-8.794401758	-22.79585883	-2.627479901	2.410259239
1.413716694	2.35619449	81	135	-7.710254174	-7.755448738	-27.55981295	-2.417403739	0.780818618
1.466076572	2.35619449	84	135	-6.870784136	-7.268998508	-17.44504386	-2.335471308	0.373984832
1.518436449	2.35619449	87	135	-6.484918685	-7.51363432	-13.24401794	-2.298405839	0.355946452
1.570796327	2.35619449	90	135	-6.669523542	-8.24653245	-11.83369568	-2.260412412	0.349027017
1.623156204	2.35619449	93	135	-7.08735189	-8.726051032	-12.11381942	-2.260317118	0.34185161
1.675516082	2.35619449	96	135	-6.93468192	-8.107069019	-13.19482926	-2.357907139	0.344424439
1.72787596	2.35619449	99	135	-5.837908842	-6.496469644	-14.35491339	-2.485896901	0.357096366
1.780235837	2.35619449	102	135	-4.664277994	-5.030673099	-15.58453415	-2.558938525	0.356907697
1.832595715	2.35619449	105	135	-4.254418686	-4.466569969	-17.47144903	-2.589233131	0.295706806
1.884955592	2.35619449	108	135	-4.67534384	-4.802438954	-20.07529099	-2.633959586	0.06653595
1.93731547	2.35619449	111	135	-5.46783039	-5.585281901	-21.20568083	-2.742955331	-0.413101604
1.989675347	2.35619449	114	135	-6.154289629	-6.363775998	-19.42489722	-2.89463572	-0.827277929
2.042035225	2.35619449	117	135	-6.97919584	-7.398394931	-17.34074935	-3.003155479	-1.060603171
2.094395102	2.35619449	120	135	-8.443277207	-9.301010121	-15.90940987	-3.025751767	-1.19953197
2.14675498	2.35619449	123	135	-10.05323108	-11.6870956	-15.09026458	-2.999905761	-1.212662728
2.199114858	2.35619449	126	135	-10.5153072	-12.57995812	-14.73618859	-3.034462072	-1.070681416
2.251474735	2.35619449	129	135	-9.570039104	-11.14898077	-14.72979984	-3.10923416	-0.875481521
2.303834613	2.35619449	132	135	-8.638638549	-9.628421632	-15.54657794	-3.107494799	-0.81413094
2.35619449	2.35619449	135	135	-8.656864989	-9.42758691	-16.54539443	-3.049429256	-1.032281099

2.408554368	2.35619449	138	135	-8.737490944	-10.02299157	-14.65151864	-3.056357063	-1.268508841
2.460914245	2.35619449	141	135	-7.131792106	-9.394140603	-11.04622024	3.013980048	-1.168203213
2.513274123	2.35619449	144	135	-4.17312169	-6.643582247	-7.800018422	2.777640255	-0.96672475
2.565634	2.35619449	147	135	-2.008131625	-4.257698969	-5.941325039	2.672803674	-0.843925966
2.617993878	2.35619449	150	135	-1.5021705	-3.611022601	-5.651394513	2.609036759	-0.850327831
2.670353756	2.35619449	153	135	-2.062156944	-4.388662426	-5.884406303	2.45387855	-1.009818003
2.722713633	2.35619449	156	135	-1.699804843	-4.513663246	-4.915854559	2.106110892	-1.214989456
2.775073511	2.35619449	159	135	0.325142406	-2.300663375	-3.10702798	1.786769455	-1.307597971
2.827433388	2.35619449	162	135	0.622667068	-0.005937407	-1.995144792	1.634500935	-1.339109355
2.879793266	2.35619449	165	135	0.706039872	0.785230579	-2.346507622	1.520775648	-1.419857062
2.932153143	2.35619449	168	135	0.503976297	-0.104771643	-3.920256552	1.328968792	-1.641450308
2.984513021	2.35619449	171	135	-0.046483933	-1.720109792	-4.997716069	0.973125292	-1.986708271
3.036872899	2.35619449	174	135	-0.117194708	-2.057792752	-4.549910239	0.559160941	-2.198634646
3.089232776	2.35619449	177	135	0.692848483	-1.257261006	-3.723034847	0.334192388	-2.225970535
3.141592654	2.35619449	180	135	1.255175789	-0.601906261	-3.329859995	0.257355537	-2.253632931
-3.14159265	2.617993878	-180	150	1.255175639	0.414691667	-6.290839813	-2.784910731	1.18614027
-3.08923278	2.617993878	-177	150	1.291271362	0.570470824	-6.863837489	-2.664156571	1.232336814
-3.0368729	2.617993878	-174	150	0.764541771	0.200415148	-8.37854591	-2.578326604	1.197018606
-2.98451302	2.617993878	-171	150	-0.085605295	-0.575257986	-9.807093259	-2.484517519	1.265586415
-2.93215314	2.617993878	-168	150	-0.573270989	-1.064890612	-10.27831327	-2.392404004	1.467559407
-2.87979327	2.617993878	-165	150	-0.338634948	-0.755231984	-10.72594986	-2.393976879	1.528735611
-2.82743339	2.617993878	-162	150	0.316027212	0.081548655	-12.47749638	-2.511551664	1.198147733
-2.77507351	2.617993878	-159	150	0.948146649	0.738523356	-12.31969114	-2.650981027	0.523634394
-2.72271363	2.617993878	-156	150	0.773223909	0.460692825	-10.8110155	-2.728011037	0.185666419
-2.67035376	2.617993878	-153	150	-0.679986985	-1.046686966	-11.59678119	-2.702119759	0.161700071
-2.61799388	2.617993878	-150	150	-2.848136827	-3.177756788	-14.20961254	-2.562993092	0.240746978
-2.565634	2.617993878	-147	150	-4.277367249	-4.559600898	-16.28947507	-2.40892735	0.08345994
-2.51327412	2.617993878	-144	150	-4.388478221	-4.79757648	-14.85098859	-2.3858994	-0.3078241
-2.46091425	2.617993878	-141	150	-4.044017653	-4.65617401	-12.85572065	-2.439879516	-0.470621594
-2.40855437	2.617993878	-138	150	-4.216147647	-4.855240788	-12.85397785	-2.449592137	-0.453481757
-2.35619449	2.617993878	-135	150	-4.854331851	-5.472353038	-13.62748807	-2.389022657	-0.365720277
-2.30383461	2.617993878	-132	150	-5.282332343	-6.102164026	-12.92639781	-2.321876262	-0.372654838
-2.25147474	2.617993878	-129	150	-5.250955089	-6.569307737	-11.07099629	-2.309336278	-0.498957439
-2.19911486	2.617993878	-126	150	-5.298776582	-6.99253811	-10.20748879	-2.314125454	-0.639159302
-2.14675498	2.617993878	-123	150	-5.919797688	-7.348947178	-11.44186096	-2.257037067	-0.793536667
-2.0943951	2.617993878	-120	150	-6.367587968	-7.1775618	-14.05941565	-2.150436152	-1.00709405
-2.04203522	2.617993878	-117	150	-5.728946326	-6.288941448	-14.90193632	-2.112447553	-1.163389722
-1.98967535	2.617993878	-114	150	-4.452281206	-5.1496428	-12.73956012	-2.189790168	-1.117591988
-1.93731547	2.617993878	-111	150	-3.303348978	-4.194726659	-10.61864301	-2.319188194	-1.081580255
-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	-4.5449534	-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	-2.883333522
-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	-1.632731303
-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	-2.250339589
-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	-0.95957446	-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
-0.78539816	0.523598776	-45	30	-0.714384075	-25.30519956	-0.729500824	-1.744907417	0.945047061
-0.73303829	0.523598776	-42	30	-0.844989125	-30.30158018	-0.84991373	-1.842044023	0.608904457
-0.68067841	0.523598776	-39	30	-1.074532067	-33.94396011	-1.076775709	-2.529736036	0.2362424
-0.62831853	0.523598776	-36	30	-1.268957959	-31.24832718	-1.273323777	2.620881568	-0.185878852
-0.57595865	0.523598776	-33	30	-1.335249672	-27.3655289	-1.346096396	1.847709863	-0.635663157
-0.52359878	0.523598776	-30	30	-1.501073635	-26.02578297	-1.516422654	1.153954252	-1.081714803
-0.4712389	0.523598776	-27	30	-2.080263341	-25.66875287	-2.099313012	0.303414377	-1.523450857
-0.41887902	0.523598776	-24	30	-3.141634022	-24.56145605	-3.173066076	-0.347082765	-1.977150235
-0.36651914	0.523598776	-21	30	-4.590190458	-26.40778736	-4.618862422	-0.311318366	-2.446008879
-0.31415927	0.523598776	-18	30	-6.23935154	-23.15375345	-6.328641155	0.675204269	-2.917261182
-0.26179939	0.523598776	-15	30	-7.655314027	-16.10367833	-8.325218093	0.7690972	2.906160229
-0.20943951	0.523598776	-12	30	-8.550037226	-12.31017468	-10.92110174	0.498994726	2.452551021

-0.15707963	0.523598776	-9	30	-8.991941456	-10.27203105	-14.92171587	0.11426122	1.900923439
-0.10471976	0.523598776	-6	30	-8.946415101	-9.377669122	-19.19076948	-0.318682619	0.796724869
-0.05235988	0.523598776	-3	30	-8.561550526	-9.437153879	-15.94676803	-0.816296923	-0.344223974
-4.4409E-16	0.523598776	0	30	-8.185290216	-9.77291126	-13.32531993	-1.415449567	-0.909348002
0.052359878	0.523598776	3	30	-8.210796975	-9.774309807	-13.4059538	1.09336433	1.693928067
0.104719755	0.523598776	6	30	-8.670455328	-10.07503999	-14.25620022	0.45373807	0.896402129
0.157079633	0.523598776	9	30	-8.18353314	-10.22731128	-12.43892668	-0.322419614	0.045191874
0.20943951	0.523598776	12	30	-6.161912555	-8.381289019	-10.13997953	-1.082512407	-0.502121743
0.261799388	0.523598776	15	30	-4.514706099	-6.290028752	-9.257241172	-1.599502006	-0.914196954
0.314159265	0.523598776	18	30	-3.962489099	-5.46698237	-9.296981771	-2.003425323	-1.349270651
0.366519143	0.523598776	21	30	-3.994986628	-5.624727842	-9.041061219	-2.431566279	-1.810629641
0.41887902	0.523598776	24	30	-3.905776468	-5.755303637	-8.505006429	-2.925758965	-2.156326393
0.471238898	0.523598776	27	30	-3.672353708	-5.085033141	-9.236970566	2.876643644	-2.346552934
0.523598776	0.523598776	30	30	-3.425466884	-3.902257546	-13.25624712	2.510764415	-2.436497523
0.575958653	0.523598776	33	30	-2.92575714	-2.928071221	-35.66097205	2.287693492	-2.1467648
0.628318531	0.523598776	36	30	-2.402611228	-2.667601134	-14.67998231	2.192371479	0.496372853
0.680678408	0.523598776	39	30	-2.487928832	-3.295386365	-10.19205037	2.20017751	0.36792342
0.733038286	0.523598776	42	30	-3.344181334	-4.656206713	-9.182111927	2.279941866	0.100633174
0.785398163	0.523598776	45	30	-4.482374367	-6.352808423	-9.042497024	2.385175129	-0.332293493
0.837758041	0.523598776	48	30	-5.163236622	-7.968907024	-8.388286625	2.478416281	-0.857934939
0.890117919	0.523598776	51	30	-4.898412738	-9.260781586	-6.879149115	2.592329074	-1.397585124
0.942477796	0.523598776	54	30	-3.312187309	-10.14923463	-4.320303995	2.805542096	-1.861738212
0.994837674	0.523598776	57	30	-0.994074883	-10.58138025	-1.500022544	3.115011395	-2.154478105
1.047197551	0.523598776	60	30	0.90768039	-10.96864758	0.616175922	-2.854892911	-2.308442276
1.099557429	0.523598776	63	30	1.151392288	-12.0957849	1.776905839	-2.572273913	-2.396734512
1.151917306	0.523598776	66	30	1.214055393	-14.28521769	2.115707486	-2.271360756	-2.470796635
1.204277184	0.523598776	69	30	1.114506423	-17.39397801	1.863279924	-1.862012481	-2.555617865
1.256637061	0.523598776	72	30	0.800911357	-20.62539028	1.172296994	-1.116677466	-2.655211297
1.308996939	0.523598776	75	30	0.082319473	-18.38850197	0.020116866	-0.093106325	-2.77265077
1.361356817	0.523598776	78	30	-1.386145778	-13.46588518	-1.663875829	0.369722708	-2.94001667
1.413716694	0.523598776	81	30	-2.72272225	-10.35970094	-3.544027782	0.544538054	3.055252607
1.466076572	0.523598776	84	30	-3.050017881	-8.907180181	-4.355280439	0.647217086	2.631673991
1.518436449	0.523598776	87	30	-2.249245143	-8.553013679	-3.408202407	0.77072868	2.247885924
1.570796327	0.523598776	90	30	-1.036890442	-8.911079425	-1.810402586	0.967203203	2.014344499
1.623156204	0.523598776	93	30	0.129859619	-10.14001299	-0.298738987	1.26165759	1.903534614
1.675516082	0.523598776	96	30	0.517521185	-13.1601163	0.952226425	1.756294188	1.890447905
1.72787596	0.523598776	99	30	1.096660593	-16.23230718	1.829324175	2.933876886	1.958973791
1.780235837	0.523598776	102	30	1.285489728	-11.47759235	2.203287208	-2.230012507	2.087886908
1.832595715	0.523598776	105	30	1.317198256	-7.57793174	1.959081902	-1.647736612	2.258560117
1.884955592	0.523598776	108	30	1.349936481	-5.237538343	1.028904135	-1.168665746	2.4672035
1.93731547	0.523598776	111	30	0.988020435	-3.617433338	-0.555872252	-0.750635269	2.732273475
1.989675347	0.523598776	114	30	0.411858649	-2.663472757	-2.534369294	-0.399822411	3.09467152
2.042035225	0.523598776	117	30	-0.143652165	-2.338651644	-4.15852419	-0.075903003	-2.702321102
2.094395102	0.523598776	120	30	-0.278048378	-2.28022566	-4.60356271	0.263129177	-2.181545238
2.14675498	0.523598776	123	30	-0.142040577	-2.225097469	-4.332850312	0.621205074	-1.768271503
2.199114858	0.523598776	126	30	-0.220576718	-2.371275672	-4.303685824	1.00495122	-1.484448557
2.251474735	0.523598776	129	30	-0.678443474	-2.791879442	-4.820344743	1.466527677	-1.288426279
2.303834613	0.523598776	132	30	-1.033870969	-2.810974844	-5.772880923	2.018500193	-1.128715188
2.35619449	0.523598776	135	30	-0.950387458	-2.139567684	-7.156784862	2.548366676	-0.938773058
2.408554368	0.523598776	138	30	-0.918360785	-1.587299653	-9.372516705	3.005506122	-0.632313594
2.460914245	0.523598776	141	30	-1.155917863	-1.463265382	-12.81023137	-2.839788268	-0.059323004
2.513274123	0.523598776	144	30	-1.255995471	-1.429801899	-15.31979363	-2.406057457	0.991199312
2.565634	0.523598776	147	30	-1.1614052	-1.423953044	-13.47777636	-2.015035765	2.071996514
2.617993878	0.523598776	150	30	-1.181617764	-1.700080837	-10.66893548	-1.674954034	2.823822271
2.670353756	0.523598776	153	30	-1.36983432	-2.226459474	-8.841043844	-1.368532126	-2.969346826
2.722713633	0.523598776	156	30	-1.887811961	-2.78938107	-9.15865385	-1.10286594	-2.680626017
2.775073511	0.523598776	159	30	-2.962262379	-3.422732392	-12.9362929	-0.884722161	-5.528110098
2.827433388	0.523598776	162	30	-4.232133036	-4.259820665	-26.20095497	-0.677890737	-2.366915205
2.879793266	0.523598776	165	30	-5.030258248	-5.165884559	-20.15229855	-0.450547729	0.396082847
2.932153143	0.523598776	168	30	-5.497899296	-6.028282467	-14.8923381	-0.262158949	0.243890987
2.984513021	0.523598776	171	30	-6.327100173	-7.301057784	-13.29742444	-0.232860376	0.110085844
3.036872899	0.523598776	174	30	-7.568303951	-8.933256318	-13.25958825	-0.441790087	0.225935541
3.089232776	0.523598776	177	30	-7.879870013	-9.316395105	-13.3830631	-0.747508862	0.696600899
3.141592654	0.523598776	180	30	-6.899043844	-8.444091622	-12.13711303	-0.811133227	1.254338194

-3.14159265	0.785398163	-180	45	-6.899044067	-7.964360594	-13.52387591	2.18909198	-2.308411779
-3.08923278	0.785398163	-177	45	-6.065410825	-6.565763701	-15.69826472	2.553526506	-2.145284692
-3.0368729	0.785398163	-174	45	-5.907999142	-6.139720619	-18.75152497	2.893463808	2.972516351
-2.98451302	0.785398163	-171	45	-6.114927266	-8.19137155	-10.31650207	-3.015330345	2.289231494
-2.93215314	0.785398163	-168	45	-5.328495153	-12.03998563	-6.370024408	-2.168979526	2.278951019
-2.87979327	0.785398163	-165	45	-4.101237173	-9.492104408	-5.582603901	-1.205026277	2.446005738
-2.82743339	0.785398163	-162	45	-4.163796478	-7.426016221	-6.935991958	-0.886974669	2.797520473
-2.77507351	0.785398163	-159	45	-5.998135791	-8.691042583	-9.35086663	-0.704496306	-2.862200363
-2.72271363	0.785398163	-156	45	-8.78389856	-13.25213781	-10.70461108	-0.342177234	-1.964376789
-2.67035376	0.785398163	-153	45	-9.027784545	-18.01401289	-9.614123337	0.769319566	-1.071152612
-2.61799388	0.785398163	-150	45	-6.935419468	-14.56527042	-7.758210303	1.80027984	-0.444468167
-2.565634	0.785398163	-147	45	-5.929695832	-11.47210866	-7.350941245	2.198707676	-0.084369575
-2.51327412	0.785398163	-144	45	-7.195371586	-10.48739225	-9.941117717	2.236694648	0.040051105
-2.46091425	0.785398163	-141	45	-10.45960332	-11.33904073	-17.82769815	1.917098867	-0.521087358
-2.40855437	0.785398163	-138	45	-9.659918339	-12.25177393	-13.13332099	1.358056543	-1.984886222
-2.35619449	0.785398163	-135	45	-7.658211185	-14.40030071	-8.691484435	0.970289336	-2.14209962
-2.30383461	0.785398163	-132	45	-7.892014942	-24.9702322	-7.977966364	1.535343278	-2.044154016
-2.25147474	0.785398163	-129	45	-7.307182706	-14.38989574	-8.253337548	3.003053601	-1.696125328
-2.19911486	0.785398163	-126	45	-4.92441489	-9.880092874	-6.59595209	2.834502367	-1.240048531
-2.14675498	0.785398163	-123	45	-3.134444837	-9.816209666	-4.184065549	2.537069311	-0.976019487
-2.0943951	0.785398163	-120	45	-2.726667401	-13.18129799	-3.136544783	2.28263797	-0.82298703
-2.04203522	0.785398163	-117	45	-3.685787375	-21.53709733	-3.757606369	2.881794014	-0.631821694
-1.98967535	0.785398163	-114	45	-4.606314905	-14.06708065	-5.128156359	-2.346129026	-0.286205611
-1.93731547	0.785398163	-111	45	-4.049533129	-10.15001467	-5.272616495	-2.463372259	0.149619873
-1.88495559	0.785398163	-108	45	-3.347782653	-10.30338028	-4.325450393	-2.718779052	0.451024746
-1.83259571	0.785398163	-105	45	-3.131388045	-13.11402587	-3.590896373	-2.972840157	0.65564264
-1.78023584	0.785398163	-102	45	-2.787587432	-17.57327203	-2.934321823	-2.897763187	0.875661877
-1.72787596	0.785398163	-99	45	-1.604066971	-17.35313337	-1.721211424	-2.275784131	1.083870104
-1.67551608	0.785398163	-96	45	-0.021009667	-14.26337247	-0.187678667	-2.141381787	1.181362498
-1.6231562	0.785398163	-93	45	0.504344758	-13.99913567	1.071277054	-2.276700814	1.156992428
-1.57079633	0.785398163	-90	45	1.075445525	-15.74507139	1.901411896	-2.472071824	1.059788173
-1.51843645	0.785398163	-87	45	1.124245825	-16.8571579	2.372696993	-2.532595984	0.936958589
-1.46607657	0.785398163	-84	45	1.225804253	-14.77876093	2.54613233	-2.434550179	0.807636529
-1.41371669	0.785398163	-81	45	1.235173069	-11.60689612	2.468492581	-2.452500382	0.662847394
-1.36135682	0.785398163	-78	45	1.173905521	-9.581655749	2.194574028	-2.596615253	0.486677981
-1.30899694	0.785398163	-75	45	0.92757431	-8.760610525	1.758344702	-2.813090512	0.074939715
-1.25663706	0.785398163	-72	45	0.98746119	-8.644211945	1.154881141	-3.070007601	0.2791936943
-1.20427718	0.785398163	-69	45	0.908238662	-8.816409226	0.418962949	2.936091529	-0.242502734
-1.15191731	0.785398163	-66	45	0.240934815	-9.058984466	-0.301878376	2.66232637	-0.549737408
-1.09955743	0.785398163	-63	45	-0.3177089	-9.484672229	-0.878534102	2.44599229	-0.881666528
-1.04719755	0.785398163	-60	45	-0.855683188	-10.55340124	-1.348181489	2.357014924	-1.234056535
-0.99483767	0.785398163	-57	45	-1.36323073	-12.36366779	-1.722638162	2.440288456	-1.618455861
-0.9424778	0.785398163	-54	45	-1.570505435	-13.98555725	-1.826977231	2.598607582	-2.030809636
-0.89011792	0.785398163	-51	45	-1.456572215	-14.97712604	-1.654071938	2.491579351	-2.434798283
-0.83775804	0.785398163	-48	45	-1.340581613	-14.43035259	-1.559202888	1.969913651	-2.81524945
-0.78539816	0.785398163	-45	45	-1.447706916	-11.86703314	-1.861094199	1.478549491	3.080410704
-0.73303829	0.785398163	-42	45	-1.932823676	-10.21506863	-2.631062702	1.199961891	2.641693808
-0.68067841	0.785398163	-39	45	-2.903045087	-10.38751723	-3.756783794	1.029251397	2.112246908
-0.62831865	0.785398163	-36	45	-4.100020359	-12.38501737	-4.797779547	0.903406967	1.461738943
-0.57595853	0.785398163	-33	45	-4.693981261	-16.95500914	-4.960001477	0.717685568	0.74376442
-0.52359878	0.785398163	-30	45	-4.412759891	-25.27887475	-4.448483703	-0.50393775	0.099673175
-0.4712389	0.785398163	-27	45	-4.051116595	-16.03562594	-4.335209638	-1.721914466	-0.446085702
-0.41887902	0.785398163	-24	45	-4.181982542	-11.59377028	-5.051672859	-1.968074589	-0.960716904
-0.36651914	0.785398163	-21	45	-5.159045714	-11.18202232	-6.407641136	-2.197160723	-1.499315983
-0.31415927	0.785398163	-18	45	-7.126119472	-14.67044266	-7.966964868	-2.625248485	-2.080752752
-0.26179939	0.785398163	-15	45	-8.945855862	-19.82580119	-9.315817374	2.27522282	-2.679230188
-0.20943951	0.785398163	-12	45	-8.969023704	-13.99152083	-10.60954401	1.005720432	3.049205414
-0.15707963	0.785398163	-9	45	-8.375496078	-10.26653328	-12.89760239	0.379226857	2.535063488
-0.10471976	0.785398163	-6	45	-8.051546113	-8.5687181	-17.54905949	-0.163714864	1.853846935
-0.05235988	0.785398163	-3	45	-8.00625764	-8.244985635	-20.72388447	-0.714109172	0.430812281
-4.4409E-16	0.785398163	0	45	-8.185289942	-8.793060068	-17.02608129	-1.340921107	-0.615961667
0.052359878	0.785398163	3	45	-8.537895145	-9.488869085	-15.60086609	1.103086943	1.847098431
0.104719755	0.785398163	6	45	-9.434934946	-10.62845683	-15.62757699	0.357972745	1.108389452
0.157079633	0.785398163	9	45	-10.08466772	-11.59854271	-15.39658246	-0.625031691	0.317755872

0.20943951	0.785398163	12	45	-7.980600428	-8.93260149	-15.03937803	-1.602332323	-0.401714805
0.261799388	0.785398163	15	45	-5.4194796	-5.893739877	-15.27212762	-2.192086958	-1.0972533
0.314159265	0.785398163	18	45	-4.140216205	-4.501090114	-15.12369206	-2.635085423	-1.863979537
0.366519143	0.785398163	21	45	-3.749339273	-4.247412247	-13.40090929	-3.091351469	-2.503902292
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
-2.93215314	1.047197551	-168	60	-3.262819826	-4.495037213	-9.335340763	-1.31356945	2.375686526
-2.87979327	1.047197551	-165	60	-3.27979722	-3.742187203	-13.23670009	-0.895735042	2.530172731
-2.82743339	1.047197551	-162	60	-5.761575307	-5.984237915	-18.77380116	-0.508153921	-2.907203352

-2.77507351	1.047197551	-159	60	-10.13468434	-10.74641546	-18.9491976	0.258315134	-2.025636045
-2.72271363	1.047197551	-156	60	-10.49335291	-10.62275672	-25.8162667	1.38722585	-0.98060217
-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	-5.277801505	-7.223425077	-9.701609489	-3.08740582	1.267782666
-2.51327412	1.047197551	-144	60	-5.761082637	-6.887644498	-12.17248678	-2.791051837	1.619645152
-2.46091425	1.047197551	-141	60	-8.715511207	-9.487062525	-16.59977202	-2.5269986	2.31871733
-2.40855437	1.047197551	-138	60	-12.91326279	-14.06173414	-19.2514928	-1.903331419	-3.040966421
-2.35619449	1.047197551	-135	60	-13.50382952	-13.86977952	-24.42914538	-1.288968818	-2.405155483
-2.30383461	1.047197551	-132	60	-13.16448873	-13.38496365	-26.21851096	-1.506687703	0.671391495
-2.25147474	1.047197551	-129	60	-10.7296169	-12.84335736	-14.87103244	-2.110422075	0.991516087
-2.19911486	1.047197551	-126	60	-8.823297797	-13.18847127	-10.80241426	-2.585643805	1.112913819
-2.14675498	1.047197551	-123	60	-8.596462311	-18.4444655	-9.071258867	-2.993016432	1.220349377
-2.0943951	1.047197551	-120	60	-7.949152729	-28.60348155	-7.98666954	0.801489001	1.409091657
-2.04203522	1.047197551	-117	60	-5.992623101	-17.38699018	-6.319660067	-0.030896997	1.668568971
-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
-1.83259571	1.047197551	-105	60	-3.09644732	-12.74032568	-3.595455919	-0.038963639	2.217664986
-1.78023584	1.047197551	-102	60	-3.423985094	-11.6047468	-4.140170417	0.009034099	2.433930039
-1.72787596	1.047197551	-99	60	-3.033911816	-11.4927217	-3.702076169	0.002593111	2.64739658
-1.67551608	1.047197551	-96	60	-2.328601209	-11.59037864	-2.876517743	0.065455093	2.769089781
-1.6231562	1.047197551	-93	60	-1.821384138	-11.15482847	-2.359753457	0.179262805	2.818292386
-1.57079633	1.047197551	-90	60	-1.539313634	-10.80019972	-2.087350038	0.199593371	2.831638054
-1.51843645	1.047197551	-87	60	-1.21554908	-11.36126337	-1.657231223	0.046911531	2.814492014
-1.46607657	1.047197551	-84	60	-0.636888599	-12.09523449	-0.958961243	-0.258184762	2.756458846
-1.41371669	1.047197551	-81	60	-0.007215927	-11.77633244	-0.306262759	-0.505911476	2.656529597
-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
-1.20427718	1.047197551	-69	60	-0.120673678	-10.5623947	-0.531830871	-1.017565461	1.902207325
-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
-0.99483767	1.047197551	-57	60	-1.312748013	-9.008150947	-2.121989179	-2.03048907	0.607999735
-0.9424778	1.047197551	-54	60	-1.997908783	-8.923000033	-2.983312419	-2.448922836	0.09085342
-0.89011792	1.047197551	-51	60	-1.980953705	-8.056065501	-3.212321441	-3.019966587	-0.494681545
-0.83775804	1.047197551	-48	60	-1.258919895	-6.24870944	-2.914535494	2.734415758	-1.044464306
-0.78539816	1.047197551	-45	60	-0.814024269	-4.899343004	-2.963307764	2.334832137	-1.541570616
-0.73303829	1.047197551	-42	60	-1.248972559	-4.829571085	-3.755244976	1.979589158	-2.058834609
-0.68067841	1.047197551	-39	60	-2.320112857	-5.796745061	-4.909333976	1.547028151	-2.657360734
-0.62831853	1.047197551	-36	60	-3.151254885	-6.5442254	-5.809889089	0.984370696	2.976043327
-0.57595865	1.047197551	-33	60	-3.50692925	-6.423393993	-6.613136714	0.419503855	2.350406385
-0.52359878	1.047197551	-30	60	-4.184399752	-6.574796633	-7.918058222	-0.111174965	1.744425916
-0.4712389	1.047197551	-27	60	-5.314486557	-7.18877893	-9.867450817	-0.737483512	1.084474012
-0.41887902	1.047197551	-24	60	-5.810954759	-7.099081276	-11.71736837	-1.446645119	0.299580949
-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
-0.26179939	1.047197551	-15	60	-7.683112242	-9.453787366	-12.43486531	2.878826151	-2.013825718
-0.20943951	1.047197551	-12	60	-8.805457488	-11.44097588	-12.22596237	1.929076113	-2.72145701
-0.15707963	1.047197551	-9	60	-8.640711999	-11.0318112	-12.37341376	0.839319203	2.946560145
-0.10471976	1.047197551	-6	60	-7.790797541	-8.917849928	-14.20054577	0.000840179	2.358118175
-0.05235988	1.047197551	-3	60	-7.585534369	-7.964270716	-18.36799969	-0.635456095	1.54802088
-4.4409E-16	1.047197551	0	60	-8.185290058	-8.426261902	-20.86339899	-1.277112036	0.143876012
0.052359878	1.047197551	3	60	-8.742958006	-9.304728347	-17.90307088	1.15771994	2.131245149
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
0.523598776	1.047197551	30	60	-3.480413489	-4.443105435	-10.49584125	1.392096776	-0.77290941

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	-1.197202693	-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
2.251474735	1.047197551	129	60	-7.432284587	-8.51234884	-14.00447777	0.726640178	0.077026367
2.303834613	1.047197551	132	60	-7.908208658	-8.19524806	-19.84936585	1.545986505	1.604220301
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	-1.699777707
2.513274123	1.047197551	144	60	-3.335962211	-6.34062063	-6.351911043	-2.404307883	-1.495111055
2.565634	1.047197551	147	60	-3.685690185	-7.171736588	-6.267252012	-1.853996799	-0.775232776
2.617993878	1.047197551	150	60	-4.629623543	-9.358199901	-6.412012228	-1.185921413	-0.122206878
2.670353756	1.047197551	153	60	-6.087331008	-11.15362346	-7.707896662	-0.272086143	0.578861575
2.722713633	1.047197551	156	60	-6.587309731	-11.31987081	-8.36767782	0.653589516	1.490186232
2.775073511	1.047197551	159	60	-5.342230935	-10.66097816	-6.853259564	1.504037214	2.267430844
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
3.036872899	1.047197551	174	60	-7.637780298	-13.18356563	-9.057720735	-2.158258961	-0.764384587
3.089232776	1.047197551	177	60	-7.759443967	-9.756215041	-12.09420439	-1.59238156	-0.241424155
3.141592654	1.047197551	180	60	-6.899044102	-7.93039961	-13.64828067	-1.085700085	0.32509611
-3.14159265	1.308996939	-180	75	-6.899044158	-8.341292234	-12.38767343	1.916747992	3.025680195
-3.08923278	1.308996939	-177	75	-6.93653409	-9.170504031	-10.89281351	2.775166168	-3.113677605
-3.0368729	1.308996939	-174	75	-5.746405167	-7.132757836	-11.3802634	-2.375244482	3.094388484
-2.98451302	1.308996939	-171	75	-3.165963284	-3.39287812	-16.09814092	-1.686410582	3.025103906
-2.93215314	1.308996939	-168	75	-2.133462484	-2.135970734	-34.51885145	-1.242901676	-0.836167093
-2.87979327	1.308996939	-165	75	-3.394168666	-3.555970819	-17.76281871	-0.779691831	-0.211307219
-2.82743339	1.308996939	-162	75	-6.252386989	-6.514775084	-18.57132237	-0.059165194	0.40297615
-2.77507351	1.308996939	-159	75	-6.581666234	-7.45519277	-13.97619329	0.845982545	1.679706903
-2.72271363	1.308996939	-156	75	-5.060592564	-7.82727591	-8.328991144	1.552095368	2.064247165
-2.67035376	1.308996939	-153	75	-4.564603258	-8.845683858	-6.593017519	2.358223337	2.284787981
-2.61799388	1.308996939	-150	75	-4.132707835	-6.934828816	-7.361670468	3.130696816	2.645279124
-2.565634	1.308996939	-147	75	-3.406936675	-5.086914042	-8.344690178	-2.772143074	-2.967985605
-2.51327412	1.308996939	-144	75	-3.320909306	-5.740900904	-7.014567782	-2.511588704	-2.223289893
-2.46091425	1.308996939	-141	75	-3.583992072	-8.676025884	-5.192964813	-2.035964164	-1.650888703

-2.40855437	1.308996939	-138	75	-3.079781278	-9.223797616	-4.2887971	-1.215331046	-1.165977311
-2.35619449	1.308996939	-135	75	-2.78763162	-7.393756394	-4.633502635	-0.802920085	-0.666234461
-2.30383461	1.308996939	-132	75	-3.512729179	-7.858935524	-5.50283302	-0.697900846	-0.009072106
-2.25147474	1.308996939	-129	75	-3.531986458	-10.78600424	-4.437446383	-0.611995216	0.698437181
-2.19911486	1.308996939	-126	75	-2.288262844	-13.98225862	-2.592714537	-0.222875544	1.124447603
-2.14675498	1.308996939	-123	75	-1.683842317	-12.52421405	-2.057340252	0.233239735	1.366537249
-2.0943951	1.308996939	-120	75	-2.107966139	-10.44831123	-2.7961504	0.307750551	1.616142594
-2.04203522	1.308996939	-117	75	-2.72551244	-10.42521369	-3.533873728	0.244859723	1.997772296
-1.98967535	1.308996939	-114	75	-2.412030513	-11.95169013	-2.923901546	0.193449163	2.41069649
-1.93731547	1.308996939	-111	75	-1.595976114	-12.96026453	-1.925374364	0.26366256	2.710513343
-1.88495559	1.308996939	-108	75	-1.07486083	-11.5078727	-1.486883785	0.390107908	2.956289858
-1.83259571	1.308996939	-105	75	-0.577555937	-9.37089685	-1.192498576	0.430533102	-3.081057519
-1.78023584	1.308996939	-102	75	0.161315059	-8.502415454	-0.473686115	0.429591012	-2.890509285
-1.72787596	1.308996939	-99	75	0.836110651	-9.243265829	0.387266463	0.458379567	-2.813261811
-1.67551608	1.308996939	-96	75	1.177814862	-11.03137163	0.90849904	0.56931435	-2.823562712
-1.6231562	1.308996939	-93	75	1.157885065	-12.70108537	0.97550629	0.736618247	-2.873316762
-1.57079633	1.308996939	-90	75	0.93384827	-13.72470069	0.782678136	0.814414895	-2.938251659
-1.51843645	1.308996939	-87	75	0.739742367	-14.45465771	0.60639183	0.743662232	-3.017522485
-1.46607657	1.308996939	-84	75	0.628070362	-14.66546672	0.497774961	0.649805096	-3.114160163
-1.41371669	1.308996939	-81	75	0.366357447	-14.09702788	0.20811096	0.687646738	3.058938576
-1.36135682	1.308996939	-78	75	-0.288666906	-13.11636388	-0.521257552	0.812436407	2.937667729
-1.30899694	1.308996939	-75	75	-1.305805556	-12.78388773	-1.626362631	0.863438803	2.799229178
-1.25663706	1.308996939	-72	75	-2.313533449	-13.87636923	-2.627665812	0.696292922	2.637916553
-1.20427718	1.308996939	-69	75	-2.743869807	-14.75076256	-3.026453846	0.172256489	2.460569137
-1.15191731	1.308996939	-66	75	-2.515907204	-12.8843761	-2.934406131	-0.35645405	2.268032478
-1.09955743	1.308996939	-63	75	-2.319291144	-11.52357798	-2.874996609	-0.655793879	2.027468002
-1.04719755	1.308996939	-60	75	-2.53429191	-12.39454322	-3.007675714	-1.010281226	1.689955724
-0.99483767	1.308996939	-57	75	-2.493999869	-13.56769199	-2.847144568	-1.758429601	1.254353892
-0.9424778	1.308996939	-54	75	-1.602222066	-10.88242371	-2.147667113	-2.525986907	0.812389541
-0.89011792	1.308996939	-51	75	-0.7924398	-8.433006712	-1.61299872	-2.96435396	0.422264903
-0.83775804	1.308996939	-48	75	-0.856347236	-7.603248175	-1.888329011	2.925275225	0.030706223
-0.78539816	1.308996939	-45	75	-1.452662058	-7.178557233	-2.804902414	2.454933229	-0.457263876
-0.73303829	1.308996939	-42	75	-1.496170518	-6.190296488	-3.296145647	1.982818167	-1.05334123
-0.68067841	1.308996939	-39	75	-1.037793996	-5.213199378	-3.130359432	1.574883908	-1.611471642
-0.62831853	1.308996939	-36	75	-1.187908467	-4.9163796	-3.582116605	1.160544203	-2.104552782
-0.57595865	1.308996939	-33	75	-2.076034842	-5.165842679	-5.008256369	0.643763466	-2.68297878
-0.52359878	1.308996939	-30	75	-2.431541195	-5.177281701	-5.723568242	0.010880637	2.870586635
-0.4712389	1.308996939	-27	75	-1.984818871	-4.731049864	-5.276289753	-0.628227768	2.257305091
-0.41887902	1.308996939	-24	75	-2.425223323	-4.788249456	-6.196453359	-1.228260723	1.814474033
-0.36651914	1.308996939	-21	75	-4.510351932	-5.859816332	-10.24385558	-1.890073978	1.325161504
-0.31415927	1.308996939	-18	75	-6.496351885	-6.878595015	-17.24051797	-2.6953435	0.121759077
-0.26179939	1.308996939	-15	75	-6.313962154	-7.073570719	-14.26017658	2.808051	-1.350578592
-0.20943951	1.308996939	-12	75	-6.819912826	-8.242900351	-12.35782908	2.100345321	-2.13571588
-0.15707963	1.308996939	-9	75	-8.137351617	-10.40194343	-12.04850014	1.180633724	-2.930052452
-0.10471976	1.308996939	-6	75	-7.705003531	-9.717666226	-12.01267344	0.143712552	2.613980609
-0.05235988	1.308996939	-3	75	-7.28625032	-8.412629465	-13.69827149	-0.575889774	1.951223407
-4.4409E-16	1.308996939	0	75	-8.185290333	-8.627777936	-18.32348785	-1.214507288	1.070790302
0.052359878	1.308996939	3	75	-8.860574217	-9.190514007	-20.21799593	1.249469386	2.64318633
0.104719755	1.308996939	6	75	-9.121032382	-9.892295957	-17.00677354	0.649635649	1.573026208
0.157079633	1.308996939	9	75	-10.73623772	-12.33214834	-15.8575424	0.095377222	0.759469809
0.20943951	1.308996939	12	75	-12.86842063	-17.09784364	-14.9278808	-0.795263965	-0.036911594
0.261799388	1.308996939	15	75	-11.96405658	-16.40373609	-13.9007363	-2.174186422	-0.603980206
0.314159265	1.308996939	18	75	-10.46804616	-12.77555281	-14.31724798	-2.902822748	-0.847190178
0.366519143	1.308996939	21	75	-9.849953686	-11.28429831	-15.35871355	2.916923334	-0.711721944
0.41887902	1.308996939	24	75	-9.249217014	-11.46774785	-13.22855209	2.501088718	-0.481706395
0.471238898	1.308996939	27	75	-7.766671881	-12.46917044	-9.56235351	2.037846025	-0.611461441
0.523598776	1.308996939	30	75	-5.639717242	-12.74851014	-6.57954753	1.568804817	-0.938028925
0.575958653	1.308996939	33	75	-4.035584346	-12.24509091	-4.746636218	1.276182045	-1.328126801
0.628318531	1.308996939	36	75	-3.582856003	-12.35071233	-4.20168826	1.123141676	-1.785082268
0.680678408	1.308996939	39	75	-4.033482091	-13.91006721	-4.504988782	0.882818733	-2.379041591
0.733038286	1.308996939	42	75	-3.869838687	-15.83215957	-4.155435808	0.228968436	-3.11781147
0.785398163	1.308996939	45	75	-2.033957232	-13.76648205	-2.335624282	-0.584302204	2.496872404
0.837758041	1.308996939	48	75	-0.082014123	-11.1936322	-0.431961202	-1.082485203	2.02662205
0.890117919	1.308996939	51	75	0.958095687	-9.98240081	0.593477762	-1.498471281	1.695630458

0.942477796	1.308996939	54	75	0.972297362	-9.413836557	0.555581409	-1.886090383	1.425745444
0.994837674	1.308996939	57	75	0.050931358	-9.638816586	-0.442524995	-2.18295437	1.140527023
1.047197551	1.308996939	60	75	-1.514745874	-11.57242044	-1.965959519	-2.419270425	0.756138445
1.099557429	1.308996939	63	75	-2.721125093	-16.08555821	-2.92602691	-2.799119595	0.243154342
1.151917306	1.308996939	66	75	-2.471341637	-19.58362063	-2.556614943	2.388466974	-0.25626847
1.204277184	1.308996939	69	75	-1.577515897	-15.08719999	-1.775522008	1.618695149	-0.606023848
1.256637061	1.308996939	72	75	-1.170568703	-11.98153835	-1.546716933	1.399022297	-0.819161969
1.308996939	1.308996939	75	75	-1.601413688	-10.78099173	-2.160502905	1.380312914	-0.963186513
1.361356817	1.308996939	78	75	-2.800296701	-11.38371772	-3.44807857	1.561816658	-1.151165832
1.413716694	1.308996939	81	75	-3.713152207	-13.6304491	-4.180014324	2.063787414	-1.516862795
1.466076572	1.308996939	84	75	-2.277927206	-14.98900868	-2.517025361	2.998397176	-1.930105033
1.518436449	1.308996939	87	75	0.114744566	-13.37459325	-0.084212987	-2.360096458	-2.045297772
1.570796327	1.308996939	90	75	1.180256079	-11.82734536	1.377428944	-1.651410588	-1.997098416
1.623156204	1.308996939	93	75	1.042912206	-11.74363329	1.648458373	-1.043757244	-1.849679227
1.675516082	1.308996939	96	75	0.942018441	-13.93430516	0.798365406	-0.375704308	-1.673943094
1.72787596	1.308996939	99	75	-1.22389694	-16.60755411	-1.351476755	0.757212865	-1.54413101
1.780235837	1.308996939	102	75	-4.610511377	-13.62003172	-5.193493674	1.82775322	-1.563878688
1.832595715	1.308996939	105	75	-7.579665541	-11.40579405	-9.9034242	2.386802445	-1.937606815
1.884955592	1.308996939	108	75	-8.340800594	-11.50146199	-11.20577119	2.827206293	-2.453622596
1.93731547	1.308996939	111	75	-9.527196999	-13.46894835	-11.7709662	-3.00604857	-2.497771335
1.989675347	1.308996939	114	75	-13.13131256	-18.40984668	-14.65918537	-2.450912672	-2.169372017
2.042035225	1.308996939	117	75	-18.14618534	-24.88943982	-19.17914572	-0.573332257	-1.454869026
2.094395102	1.308996939	120	75	-15.14653101	-16.07164504	-22.31677055	0.504493492	-0.68484114
2.14675498	1.308996939	123	75	-13.92010892	-14.1825713	-26.23785168	0.938877201	-1.364082032
2.199114858	1.308996939	126	75	-13.61710797	-18.03841237	-15.56414786	1.615601457	-2.098009908
2.251474735	1.308996939	129	75	-9.630440517	-18.34036497	-10.25821328	-2.837538939	-2.038488649
2.303834613	1.308996939	132	75	-7.620810413	-12.21701177	-9.471946391	-1.921674157	-1.920471302
2.35619449	1.308996939	135	75	-8.256999626	-9.827682346	-13.4356561	-1.222112249	-1.874687576
2.408554368	1.308996939	138	75	-8.400551759	-8.57721772	-22.39489962	-0.465515014	-3.057714354
2.460914245	1.308996939	141	75	-6.715581723	-7.72122171	-13.56212119	0.286588847	2.591311955
2.513274123	1.308996939	144	75	-5.756747249	-7.323980835	-10.94333013	1.036671139	3.05311008
2.565634	1.308996939	147	75	-5.145482312	-7.084573149	-9.580874508	1.759177677	-2.428613351
2.617993878	1.308996939	150	75	-4.446958423	-7.577076761	-7.340657132	2.407468051	-1.687689069
2.670353756	1.308996939	153	75	-4.914430512	-9.470820704	-6.786875114	3.081885512	-1.145861589
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
-2.98451302	1.570796327	-171	90	-2.541906911	-3.0718134	-11.94001719	-1.743058563	-1.662889573
-2.93215314	1.570796327	-168	90	-2.911314415	-3.809871033	-10.19523781	-1.327284223	-0.948005446
-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
-2.77507351	1.570796327	-159	90	-4.41205457	-7.316528967	-7.530823304	0.673997337	1.439323417
-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

-2.04203522	1.570796327	-117	90	1.040785902	-9.906728278	0.676782056	1.254739327	1.735660599
-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
-1.88495559	1.570796327	-108	90	-0.910593759	-12.69599023	-1.208482415	1.859174218	2.631785462
-1.83259571	1.570796327	-105	90	-1.095493639	-10.93049006	-1.571795327	1.880941417	2.895817299
-1.78023584	1.570796327	-102	90	-0.957930898	-9.520098845	-1.609141174	1.859438755	3.108278032
-1.72787596	1.570796327	-99	90	-0.655293724	-9.384155919	-1.280128702	1.86329953	-3.031136583
-1.67551608	1.570796327	-96	90	-0.263190951	-10.58264065	-0.68667955	1.856454256	-2.958430839
-1.6231562	1.570796327	-93	90	0.251565556	-12.46472543	0.012762063	1.718029382	-2.944425923
-1.57079633	1.570796327	-90	90	0.84030728	-13.13984353	0.663050888	1.388935602	-2.967254132
-1.51843645	1.570796327	-87	90	0.928752117	-11.97903932	1.121095082	1.137562754	-3.006960554
-1.46607657	1.570796327	-84	90	1.038653674	-11.15882207	1.298784185	1.068467051	-3.061557928
-1.41371669	1.570796327	-81	90	0.97407489	-11.59705309	1.254488939	1.045114505	3.132194558
-1.36135682	1.570796327	-78	90	0.977180232	-13.05978465	1.217950193	0.891700027	2.989771562
-1.30899694	1.570796327	-75	90	1.001390313	-14.0396696	1.346264376	0.494546784	2.814453521
-1.25663706	1.570796327	-72	90	0.85461512	-13.49424108	1.344368583	0.107835743	2.646765891
-1.20427718	1.570796327	-69	90	0.795666971	-13.92366088	0.646634172	-0.071467086	2.484868228
-1.15191731	1.570796327	-66	90	-0.92825217	-17.23658544	-1.02551582	-0.096051587	2.265569152
-1.09955743	1.570796327	-63	90	-3.031906777	-24.22183564	-3.065054045	0.08772409	1.894316016
-1.04719755	1.570796327	-60	90	-3.94463182	-29.84902302	-3.955797968	0.515945185	1.410537553
-0.99483767	1.570796327	-57	90	-3.957656838	-26.25269013	-3.983335019	0.236445493	0.983547425
-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
-0.78539816	1.570796327	-45	90	-1.474877816	-24.44460977	-1.496851828	3.024003456	-0.812738831
-0.73303829	1.570796327	-42	90	-1.799604092	-21.82068447	-1.843039734	2.813946897	-1.192627437
-0.68067841	1.570796327	-39	90	-2.251096411	-22.25933733	-2.294661303	1.726733615	-1.728562143
-0.62831853	1.570796327	-36	90	-1.4078274	-15.17146395	-1.594342078	0.82053377	-2.281277553
-0.57595865	1.570796327	-33	90	-0.703823059	-11.21705831	-1.107942834	0.388979752	-2.717454318
-0.52359878	1.570796327	-30	90	-1.352060884	-10.03599516	-1.983889635	-0.146390389	3.127524554
-0.4712389	1.570796327	-27	90	-2.614090572	-9.039220998	-3.736595669	-0.866819683	2.552217361
-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
-0.31415927	1.570796327	-18	90	-6.191797715	-7.569524498	-11.84867759	-2.942575958	0.227630631
-0.26179939	1.570796327	-15	90	-5.796727271	-7.205983995	-11.37026034	2.629989903	-1.04445578
-0.20943951	1.570796327	-12	90	-5.959273693	-8.059529328	-10.12228491	2.017565778	-1.86920454
-0.15707963	1.570796327	-9	90	-7.58732514	-10.56790255	-10.62755246	1.230533314	-2.709404796
-0.10471976	1.570796327	-6	90	-7.553706939	-10.86299591	-10.28428255	0.209162609	2.71449236
-0.05235988	1.570796327	-3	90	-7.070044675	-9.556506456	-10.67614651	-0.527569062	2.076681087
-4.4409E-16	1.570796327	0	90	-8.18529015	-9.421843003	-14.24462276	-1.144287503	1.453325234
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	0.029118084
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
0.785398163	1.570796327	45	90	-4.299009824	-6.630033984	-8.114890619	-0.468022566	2.775709524
0.837758041	1.570796327	48	90	-2.676689614	-5.912557009	-5.472561646	-0.714882101	1.958499701
0.890117919	1.570796327	51	90	-1.463543047	-7.053510789	-2.86651633	-1.036959092	1.509590236
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
1.047197551	1.570796327	60	90	-1.300901791	-5.108908598	-3.637528465	-2.190865527	0.176589636
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
1.204277184	1.570796327	69	90	-0.11828348	-12.30385899	-0.389114202	-3.041875059	-0.772292373
1.256637061	1.570796327	72	90	-1.501822554	-13.65789248	-1.774558741	2.604582257	-0.899287461

1.308996939	1.570796327	75	90	-3.77433223	-13.40377051	-4.27510237	2.231195147	-1.17537457
1.361356817	1.570796327	78	90	-4.881690052	-13.8135079	-5.475950447	1.934469978	-1.701695514
1.413716694	1.570796327	81	90	-3.636799327	-13.62578035	-4.095600291	1.419841107	-2.065419022
1.466076572	1.570796327	84	90	-2.760276474	-10.4310996	-3.574569421	0.927742754	-2.115528312
1.518436449	1.570796327	87	90	-3.260969047	-6.978127167	-5.663516582	0.776316712	-1.991086357
1.570796327	1.570796327	90	90	-4.488279791	-5.130953398	-13.10359313	0.855884273	-1.749304858
1.623156204	1.570796327	93	90	-4.806234419	-5.081371514	-16.92542835	1.080509861	1.542202268
1.675516082	1.570796327	96	90	-3.990064089	-7.212725806	-6.797904074	1.42196884	1.866785484
1.72787596	1.570796327	99	90	-3.722876185	-13.55708919	-4.199268689	2.033881367	2.116054088
1.780235837	1.570796327	102	90	-4.619010489	-15.47560523	-4.991054437	-2.073995183	2.270631016
1.832595715	1.570796327	105	90	-5.285370945	-8.033534029	-8.574652325	-1.276959149	-2.151104168
1.884955592	1.570796327	108	90	-4.426632604	-5.80278852	-10.08772308	-0.800953846	1.526829163
1.93731547	1.570796327	111	90	-3.886874806	-6.218054259	-7.702537018	-0.33955232	1.322529152
1.989675347	1.570796327	114	90	-5.427276835	-8.901208679	-8.018700504	0.106107214	1.508600767
2.042035225	1.570796327	117	90	-11.42878414	-15.25833868	-13.75012031	0.468256689	1.872460402
2.094395102	1.570796327	120	90	-11.0531431	-29.0799339	-20.63364989	-0.324689886	-1.567506202
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
2.251474735	1.570796327	129	90	-14.65595671	-16.42288883	-19.41515518	1.222746605	1.249318121
2.303834613	1.570796327	132	90	-7.407807392	-14.06755281	-8.463467515	2.573919245	2.59588541
2.35619449	1.570796327	135	90	-3.394208328	-8.611696901	-4.948079318	-2.65064368	3.00375844
2.408554368	1.570796327	138	90	-2.350050461	-4.741018075	-6.082931445	-1.914683916	-2.965237672
2.460914245	1.570796327	141	90	-2.231168546	-2.55871201	-13.61906477	-1.24610057	-2.72788788
2.513274123	1.570796327	144	90	-1.462741687	-1.546662218	-18.64379527	-0.592179311	1.000977838
2.565634	1.570796327	147	90	-1.169773974	-1.57774361	-11.64372678	0.08393423	1.264788596
2.617993878	1.570796327	150	90	-1.840967424	-2.113625853	-13.99823723	0.812696041	2.060476245
2.670353756	1.570796327	153	90	-2.385646359	-2.90431298	-11.87135913	1.511738896	-2.829054802
2.722713633	1.570796327	156	90	-3.738973196	-5.234184907	-9.095967273	2.160148723	-2.233347849
2.775073511	1.570796327	159	90	-7.92504422	-9.946471542	-12.21788709	3.018369784	-1.804601914
2.827433388	1.570796327	162	90	-12.58580539	-12.99043264	-23.09384013	-2.045826624	-0.260322628
2.879793266	1.570796327	165	90	-12.92816277	-16.85160157	-15.18436246	-1.021916659	1.317288332
2.932153143	1.570796327	168	90	-13.02525599	-18.41491623	-14.50711344	1.090129728	2.048480883
2.984513021	1.570796327	171	90	-10.93767206	-13.1205618	-14.97102191	2.053240303	3.072761919
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	-2.4626628318
-3.14159265	1.832595715	-180	105	-6.899044016	-10.51463424	-9.378187862	1.54763769	-0.497032089
-3.08923278	1.832595715	-177	105	-7.699433709	-14.46496548	-8.72643169	2.908865838	-3.041754112
-3.0368729	1.832595715	-174	105	-4.533723437	-6.882671781	-8.32449848	-2.306777269	-2.176171563
-2.98451302	1.832595715	-171	105	-3.025511882	-5.090178782	-7.246367022	-1.996359145	-1.553731396
-2.93215314	1.832595715	-168	105	-5.757234779	-9.124951958	-8.437308745	-1.538781062	-1.139557232
-2.87979327	1.832595715	-165	105	-8.686976916	-11.76060534	-11.6348586	-0.221428466	-0.598062133
-2.82743339	1.832595715	-162	105	-7.462246378	-9.192190619	-12.29606608	0.311728967	0.14728962
-2.77507351	1.832595715	-159	105	-8.366464868	-12.43744492	-10.52495462	0.33568665	0.639459207
-2.72271363	1.832595715	-156	105	-8.957410181	-25.59196652	-9.052708421	0.083036326	1.101896958
-2.67035376	1.832595715	-153	105	-6.987457957	-23.36577343	-7.088616101	2.972538104	1.623117476
-2.61799388	1.832595715	-150	105	-5.235236689	-17.92889572	-5.475323014	2.598679702	2.048203088
-2.565634	1.832595715	-147	105	-5.5164111	-17.27408208	-5.81627497	2.732101187	2.457725036
-2.51327412	1.832595715	-144	105	-7.215953307	-16.37777918	-7.777487152	-2.810940511	3.096064524
-2.46091425	1.832595715	-141	105	-6.9919800623	-13.95564676	-7.967613687	-2.18316892	-2.310659619
-2.40855437	1.832595715	-138	105	-5.921367839	-13.36066254	-6.784983042	-1.507588086	-1.593596013
-2.35619449	1.832595715	-135	105	-4.469445143	-10.53265687	-5.704720977	-0.768018891	-0.922207988
-2.30383461	1.832595715	-132	105	-2.238197168	-7.60312429	-3.730152745	-0.436635604	-0.352038417
-2.25147474	1.832595715	-129	105	-0.99554636	-7.26768426	-2.164224273	-0.255994459	0.013697904
-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
-2.0943951	1.832595715	-120	105	-1.089920825	-7.608813851	-2.18515354	1.025672206	0.980675531
-2.04203522	1.832595715	-117	105	-0.866092321	-7.480655511	-1.934267876	1.18654994	1.2454037
-1.98967535	1.832595715	-114	105	-1.3929304	-8.471534682	-2.340085956	1.460858837	1.466039485
-1.93731547	1.832595715	-111	105	-1.833079372	-7.582765042	-3.176661759	1.886594482	1.740449009
-1.88495559	1.832595715	-108	105	-1.100486177	-5.294963635	-3.181287143	2.112639154	2.035677999
-1.83259571	1.832595715	-105	105	-0.163499628	-4.456666096	-2.184735153	2.183141949	2.189949454
-1.78023584	1.832595715	-102	105	0.196695456	-5.663899454	-1.107364276	2.25395179	2.210655994
-1.72787596	1.832595715	-99	105	0.277162922	-7.978263786	-0.425770786	2.410483239	2.211074173

-1.67551608	1.832595715	-96	105	0.287005126	-9.019014384	-0.254996563	2.546601217	2.24410416
-1.6231562	1.832595715	-93	105	0.190091097	-8.20732451	-0.488368849	2.476930993	2.270019124
-1.57079633	1.832595715	-90	105	0.001005524	-7.321924377	-0.888634364	2.347384522	2.211565745
-1.51843645	1.832595715	-87	105	-0.174136458	-7.707215797	-1.0173876	2.302245313	2.063149905
-1.46607657	1.832595715	-84	105	-0.119995454	-8.909229459	-0.735563138	2.358643023	1.93264621
-1.41371669	1.832595715	-81	105	0.040799508	-8.937840697	-0.546637229	2.385837796	1.890428286
-1.36135682	1.832595715	-78	105	0.140609175	-7.22765897	-0.738789331	2.25686432	1.879965982
-1.30899694	1.832595715	-75	105	0.255332341	-5.377288955	-1.131485574	2.071661656	1.788097037
-1.25663706	1.832595715	-72	105	0.431141049	-4.631101521	-1.191257611	1.879065078	1.568637854
-1.20427718	1.832595715	-69	105	0.642457274	-4.926999403	-0.768363069	1.633796189	1.3132064
-1.15191731	1.832595715	-66	105	0.625862558	-5.331639095	-0.644762941	1.30885675	1.083271152
-1.09955743	1.832595715	-63	105	0.211332543	-5.365207367	-1.196772124	0.961316042	0.810999702
-1.04719755	1.832595715	-60	105	-0.196870618	-5.755491783	-1.611857121	0.598645453	0.43133126
-0.99483767	1.832595715	-57	105	-0.10743938	-6.741668991	-1.170146913	0.120414846	0.043166651
-0.9424778	1.832595715	-54	105	0.022396636	-7.161586146	-0.899461084	-0.457816153	-0.2751015
-0.89011792	1.832595715	-51	105	-0.534782382	-7.227276283	-1.581474461	-0.924148686	-0.624317303
-0.83775804	1.832595715	-48	105	-1.412274198	-8.474707974	-2.363379644	-1.270545462	-1.10238515
-0.78539816	1.832595715	-45	105	-1.594992142	-10.84808898	-2.14407725	-1.626986229	-1.584481142
-0.73303829	1.832595715	-42	105	-1.657398935	-12.83737605	-2.001658387	-2.010630575	-1.961211674
-0.68067841	1.832595715	-39	105	-2.340701874	-14.40941321	-2.619161191	-2.272201692	-2.360889382
-0.62831853	1.832595715	-36	105	-2.7579368	-17.87621125	-2.893682624	-2.411858827	-2.868255211
-0.57595865	1.832595715	-33	105	-2.407534111	-26.2686199	-2.425422443	-2.410074476	2.95424512
-0.52359878	1.832595715	-30	105	-3.004336671	-29.70619666	-3.013627678	-1.361031935	2.580740861
-0.4712389	1.832595715	-27	105	-5.676860183	-20.20066046	-5.832880789	-1.734538621	2.088445161
-0.41887902	1.832595715	-24	105	-7.727119865	-14.3136176	-8.803153749	-2.197352166	1.138841657
-0.36651914	1.832595715	-21	105	-6.235704935	-11.79310959	-7.651160075	-2.681513316	0.186998463
-0.31415927	1.832595715	-18	105	-5.544228365	-10.79985543	-7.081795859	2.994355776	-0.484997531
-0.26179939	1.832595715	-15	105	-5.792334814	-10.12818863	-7.788467796	2.379887371	-1.184072965
-0.20943951	1.832595715	-12	105	-6.642834164	-10.72244473	-8.795776652	1.812490841	-1.958893655
-0.15707963	1.832595715	-9	105	-7.785204217	-12.62161056	-9.513883269	1.089857243	-2.827940462
-0.10471976	1.832595715	-6	105	-7.326664074	-12.71440735	-8.809301302	0.205010968	2.646682027
-0.05235988	1.832595715	-3	105	-6.910332645	-11.51378732	-8.757618493	-0.464367992	2.093364985
-4.4409E-16	1.832595715	0	105	-8.185290377	-10.91211204	-11.49887236	-1.052892177	1.62429292
0.052359878	1.832595715	3	105	-9.134881663	-9.915481351	-16.97289643	1.498130799	-2.191210435
0.104719755	1.832595715	6	105	-8.612760139	-8.818862786	-21.95241135	1.00976826	-2.850925303
0.157079633	1.832595715	9	105	-8.624875451	-8.769130836	-23.48332627	0.562653696	-1.98048567
0.20943951	1.832595715	12	105	-8.634180764	-9.501645112	-16.0560226	0.026972531	-7.299939363
0.261799388	1.832595715	15	105	-8.537773034	-9.851487383	-14.37091855	-0.586134275	-2.12409271
0.314159265	1.832595715	18	105	-8.697552702	-9.793603822	-15.21359372	-1.191035598	-3.043070895
0.366519143	1.832595715	21	105	-7.584281866	-9.214433889	-12.62945445	-1.838232769	2.081829793
0.41887902	1.832595715	24	105	-4.923186274	-7.294845922	-8.68250442	-2.453958014	1.221879688
0.471238898	1.832595715	27	105	-2.157751638	-5.14689725	-5.189309485	-2.935160566	0.589969929
0.523598776	1.832595715	30	105	-0.352475657	-3.809887432	-2.957428259	2.921377961	0.143219859
0.575958653	1.832595715	33	105	0.134813678	-3.228316336	-2.54917956	2.485874445	-0.223791758
0.628318531	1.832595715	36	105	-0.586376173	-3.266226103	-3.954355838	2.059165073	-0.657710905
0.680678408	1.832595715	39	105	-1.938624476	-4.214262198	-5.833685061	1.660364555	-1.354079018
0.733038286	1.832595715	42	105	-2.48712974	-6.208203905	-4.886786287	1.249426228	-2.175413878
0.785398163	1.832595715	45	105	-1.58457031	-8.40198615	-2.597830973	0.783908174	-2.736012925
0.837758041	1.832595715	48	105	-0.515613036	-9.395355026	-1.11756246	0.368327838	-3.13861556
0.890117919	1.832595715	51	105	-0.049340311	-9.273324512	-0.602363945	0.145007862	-2.81396069
0.942477796	1.832595715	54	105	-0.377201075	-8.855040928	-1.042208502	0.095975017	2.506838742
0.994837674	1.832595715	57	105	-1.453924588	-8.662179032	-2.370062414	0.205522701	2.179399746
1.047197551	1.832595715	60	105	-2.531634883	-8.667795089	-3.743175511	0.499366665	1.773985512
1.099557429	1.832595715	63	105	-2.619793614	-8.620756926	-3.875746295	0.900221316	1.398227921
1.151917306	1.832595715	66	105	-2.795374159	-9.852781233	-3.747711186	1.297653798	1.230691666
1.204277184	1.832595715	69	105	-4.965529677	-15.39482735	-5.377922434	1.929609314	1.241433254
1.256637061	1.832595715	72	105	-10.01345839	-15.84941769	-11.32617927	-2.431935419	1.353059379
1.308996939	1.832595715	75	105	-9.968557054	-10.11516027	-24.75806074	-1.68360314	-1.500005624
1.361356817	1.832595715	78	105	-6.737450541	-9.241938731	-10.32033512	-1.085759583	-1.293359321
1.413716694	1.832595715	81	105	-6.030567785	-9.911386978	-8.316041407	-0.305659755	-0.993425641
1.466076572	1.832595715	84	105	-8.056550609	-10.99344944	-11.14151362	0.578211879	-0.809214633
1.518436449	1.832595715	87	105	-10.58863209	-11.73576184	-16.93129704	1.712379515	-2.051543267
1.570796327	1.832595715	90	105	-4.547816349	-9.441177365	-6.248919324	2.700776403	-2.614601258
1.623156204	1.832595715	93	105	-1.337801967	-9.257146276	-2.102565321	-2.905971198	-2.443438943

1.675516082	1.832595715	96	105	-1.082062251	-12.05060572	-1.444232387	-1.969198145	-2.163612344
1.72787596	1.832595715	99	105	-2.431910407	-11.44674858	-3.014129261	-0.774571706	-1.835039002
1.780235837	1.832595715	102	105	-5.202536644	-11.19347964	-6.461854827	-0.012322374	-1.583861241
1.832595715	1.832595715	105	105	-10.32935851	-14.67158027	-12.32178021	0.857182227	-1.72817149
1.884955592	1.832595715	108	105	-14.54268174	-18.69359601	-16.65047756	2.136087252	-2.564411262
1.93731547	1.832595715	111	105	-18.02850771	-20.32025573	-21.90028332	-2.159946631	2.62826012
1.989675347	1.832595715	114	105	-9.731599619	-12.86509206	-12.62210541	-0.946372077	1.158891617
2.042035225	1.832595715	117	105	-5.363862996	-11.34583912	-6.626201672	-0.217037688	1.248067683
2.094395102	1.832595715	120	105	-3.746644062	-11.895836	-4.468513688	0.93955126	1.633183854
2.14675498	1.832595715	123	105	-2.697140582	-9.053465303	-3.840149346	1.974163083	2.093422431
2.199114858	1.832595715	126	105	-3.623677095	-9.209437104	-5.028255984	2.780115645	2.478149699
2.251474735	1.832595715	129	105	-6.60481637	-9.836218181	-9.404727683	-2.246560944	2.809126535
2.303834613	1.832595715	132	105	-6.161051927	-6.513558729	-17.24228131	-1.231882632	-3.005755491
2.35619449	1.832595715	135	105	-5.132747277	-5.277008959	-19.99101167	-0.51304937	-2.7058275
2.408554368	1.832595715	138	105	-4.957305235	-5.343964304	-15.6537616	0.203693557	-2.869580956
2.460914245	1.832595715	141	105	-5.95555068	-6.42398648	-15.85900586	0.7794754	-2.707465785
2.513274123	1.832595715	144	105	-10.59188802	-10.88805934	-22.40154526	1.191259125	-1.173635566
2.565634	1.832595715	147	105	-13.08045234	-21.12707711	-13.82113049	1.552881782	-0.02838701
2.617993878	1.832595715	150	105	-14.00672113	-22.21289439	-14.71836623	1.15893402	0.455563289
2.670353756	1.832595715	153	105	-11.41587943	-12.20521126	-19.20981642	1.264570624	2.195110062
2.722713633	1.832595715	156	105	-7.62471798	-9.181633716	-12.83513675	1.463590141	-3.087355736
2.775073511	1.832595715	159	105	-10.38216709	-12.37215689	-14.72856963	1.807430232	-2.420544098
2.827433388	1.832595715	162	105	-14.77891151	-18.54981004	-17.14217736	3.069962892	-0.818627463
2.879793266	1.832595715	165	105	-12.52761751	-17.38047773	-14.24827476	-2.455715147	0.293222773
2.932153143	1.832595715	168	105	-13.51261242	-23.56880079	-13.96398882	2.933764653	1.499969933
2.984513021	1.832595715	171	105	-10.16406828	-17.95086112	-10.95482544	2.156360814	2.513121486
3.036872899	1.832595715	174	105	-10.79430986	-18.57779835	-11.58572723	-3.09101659	-2.996475186
3.089232776	1.832595715	177	105	-9.131349605	-11.50627779	-12.88617274	-2.04466711	-1.662432074
3.141592654	1.832595715	180	105	-6.899044016	-10.51463424	-9.378187862	-1.593954963	-0.644560564
-3.14159265	2.094395102	-180	120	-6.899043844	-12.13711303	-8.444091622	1.254338194	2.330459426
-3.08923278	2.094395102	-177	120	-7.977175487	-18.52657273	-8.377784847	2.617320015	-3.017958435
-3.0368729	2.094395102	-174	120	-4.469543321	-8.713471663	-6.520226057	-2.614460178	-2.108261073
-2.98451302	2.094395102	-171	120	-4.112374493	-7.771836992	-6.558046542	-2.429526854	-1.64385045
-2.93215314	2.094395102	-168	120	-11.05923864	-17.95633835	-12.05180068	-2.045355091	-1.365006728
-2.87979327	2.094395102	-165	120	-12.99427352	-13.26579465	-25.16913358	0.585677631	-1.368776771
-2.82743339	2.094395102	-162	120	-10.11751029	-11.02421112	-17.3661792	0.908982582	-1.607714516
-2.77507351	2.094395102	-159	120	-7.771740995	-16.31589572	-8.425872345	1.735656645	-2.755546636
-2.72271363	2.094395102	-156	120	-5.349955791	-15.9773493	-5.743101904	2.939722962	-0.927122846
-2.67035376	2.094395102	-153	120	-6.169054784	-21.37701463	-6.30198319	-2.904682808	-0.317760272
-2.61799388	2.094395102	-150	120	-5.55629392	-23.63317229	-5.624449243	-0.131872078	0.461936315
-2.565634	2.094395102	-147	120	-4.77144628	-21.18781362	-4.871711706	0.130270575	0.956504602
-2.51327412	2.094395102	-144	120	-6.328884253	-25.00747694	-6.388161157	2.427530712	1.397383095
-2.46091425	2.094395102	-141	120	-6.675878453	-14.35221404	-7.489035447	2.634963794	2.073088837
-2.40855437	2.094395102	-138	120	-5.189850837	-12.89502139	-5.997094056	2.484598207	2.595756653
-2.35619449	2.094395102	-135	120	-5.542030695	-15.93370247	-5.958189339	2.674548812	2.915219098
-2.30383461	2.094395102	-132	120	-7.012343065	-13.22057343	-8.200946113	-2.472639789	-2.836959217
-2.25147474	2.094395102	-129	120	-4.595057333	-7.215878083	-8.033237435	-2.162386823	-2.015631428
-2.19911486	2.094395102	-126	120	-3.23670124	-6.175110959	-6.320101517	-2.024526222	-1.613722733
-2.14675498	2.094395102	-123	120	-4.701266463	-9.276544371	-6.563564165	-1.63341557	-1.46257633
-2.0943951	2.094395102	-120	120	-5.532790567	-10.60251599	-7.151804376	-0.721230412	-1.261265337
-2.04203522	2.094395102	-117	120	-3.931477144	-8.734371482	-5.676635089	-0.352876816	-0.942269942
-1.98967535	2.094395102	-114	120	-2.484763638	-9.330162181	-3.490700955	-0.375873264	-0.681268114
-1.93731547	2.094395102	-111	120	-2.136594466	-10.76611408	-2.777006593	-0.294707567	-0.4473609
-1.88495559	2.094395102	-108	120	-2.405138571	-9.469034783	-3.355886041	0.121824378	-0.16435222
-1.83259571	2.094395102	-105	120	-1.759492202	-6.363658715	-3.606400732	0.365320131	0.070315729
-1.78023584	2.094395102	-102	120	-0.763123661	-5.152080515	-2.728569278	0.405987725	0.078967508
-1.72787596	2.094395102	-99	120	0.0881704115	-5.718931045	-1.243552263	0.380540923	-0.015392377
-1.67551608	2.094395102	-96	120	0.632052863	-6.26755884	-0.359864405	0.367910157	-0.028248669
-1.6231562	2.094395102	-93	120	0.657009732	-5.46458224	-0.559228846	0.372443451	0.050780123
-1.57079633	2.094395102	-90	120	0.419819805	-4.493481787	-1.271754359	0.32609636	0.117942766
-1.51843645	2.094395102	-87	120	0.078625961	-4.796198631	-1.631393074	0.203653231	0.050814782
-1.46607657	2.094395102	-84	120	-0.040069538	-6.268156687	-1.222440374	0.028515559	-0.090719988
-1.41371669	2.094395102	-81	120	0.014985636	-7.419236193	-0.849746418	-0.076728167	-0.149384633
-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
-0.99483767	2.094395102	-57	120	0.67915619	-3.515576895	-1.401487661	-1.162921967	-1.502772797
-0.9424778	2.094395102	-54	120	1.050867329	-2.8847209	-1.197075557	-1.667885624	-1.799462751
-0.89011792	2.094395102	-51	120	0.88441723	-2.628140779	-1.675735823	-2.1625699	-2.111484483
-0.83775804	2.094395102	-48	120	0.081177199	-3.467204383	-2.450419035	-2.643157469	-2.557836537
-0.78539816	2.094395102	-45	120	-0.57541892	-5.156365268	-2.434684612	-3.132275337	-3.033657761
-0.73303829	2.094395102	-42	120	-1.377627348	-7.350754846	-2.642954872	2.73933745	2.899029302
-0.68067841	2.094395102	-39	120	-3.184911417	-10.44970201	-4.087877839	2.484073956	2.580767828
-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	-0.734666691
-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
-0.26179939	2.094395102	-15	120	-8.07045114	-18.91291519	-8.443761218	1.821666572	-1.631023189
-0.20943951	2.094395102	-12	120	-8.970288767	-16.2371751	-9.872770988	1.389763224	-2.484079029
-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	2.346008085
-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
0.104719755	2.094395102	6	120	-8.905213844	-9.814320125	-16.14353712	1.213173468	-2.139182035
0.157079633	2.094395102	9	120	-8.438569181	-9.686958144	-14.46216568	0.811283983	-2.018511626
0.20943951	2.094395102	12	120	-7.767879071	-10.13724653	-11.53035432	0.337610744	-2.002156669
0.261799388	2.094395102	15	120	-7.06071727	-9.888108501	-10.26196939	-0.124338043	-2.33319108
0.314159265	2.094395102	18	120	-6.38110118	-9.566096399	-9.223462109	-0.498049165	-2.911149219
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
0.471238898	2.094395102	27	120	-6.107306941	-7.589451299	-11.49626173	-2.149803823	1.45884679
0.523598776	2.094395102	30	120	-4.28960708	-6.277295966	-8.639971075	-2.639369512	0.63411405
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
0.680678408	2.094395102	39	120	-3.19003267	-6.899296426	-5.598421955	2.505345557	-0.587053969
0.733038286	2.094395102	42	120	-3.559383323	-9.004830052	-5.018758628	2.194710057	-1.104850695
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
0.994837674	2.094395102	57	120	-2.76808852	-8.465297589	-4.130854975	-2.611986014	3.031005945
1.047197551	2.094395102	60	120	-0.138158532	-5.517879675	-1.624064226	-2.544611437	2.777334608
1.099557429	2.094395102	63	120	0.813567626	-5.534607199	-0.33189783	-2.441975594	2.790413212
1.151917306	2.094395102	66	120	-0.687760353	-8.100378817	-1.557266509	-2.195134131	2.92547972
1.204277184	2.094395102	69	120	-5.920824386	-14.05218448	-6.645926357	-1.642402199	3.097253815
1.256637061	2.094395102	72	120	-17.02347215	-18.42258495	-22.62357996	0.445097879	2.285658028
1.308996939	2.094395102	75	120	-6.495140421	-9.207457203	-9.82538523	1.382966948	1.04390476
1.361356817	2.094395102	78	120	-3.449529546	-6.397269459	-6.523303911	1.748154881	1.337153301
1.413716694	2.094395102	81	120	-5.297953128	-8.555031922	-8.074746172	2.052910329	1.570395382
1.466076572	2.094395102	84	120	-14.46758184	-20.66978948	-15.65808259	2.387174473	1.232858722
1.518436449	2.094395102	87	120	-10.19281044	-14.39398343	-12.26950108	-0.166769422	0.017834847
1.570796327	2.094395102	90	120	-5.381918727	-7.685297798	-9.23701395	0.430597772	0.207825988
1.623156204	2.094395102	93	120	-4.3265663	-5.334120579	-11.16576679	0.976627197	0.723428395
1.675516082	2.094395102	96	120	-6.887358134	-7.027737893	-21.86215713	1.50582414	1.645848685
1.72787596	2.094395102	99	120	-10.36475597	-14.71217759	-12.35415355	2.579083069	-1.798425533
1.780235837	2.094395102	102	120	-5.258607577	-11.99193246	-6.294238093	-1.620673177	-1.329623118
1.832595715	2.094395102	105	120	-3.703601187	-7.384224273	-6.133340359	-0.549374053	-0.908404894
1.884955592	2.094395102	108	120	-2.974039159	-3.954402572	-9.918975927	0.269543102	-0.343145744
1.93731547	2.094395102	111	120	-2.883898797	-3.048818782	-17.1712081	0.843300187	0.291732306
1.989675347	2.094395102	114	120	-5.617399297	-5.760608277	-20.50694761	1.438518794	-1.505483525

2.042035225	2.094395102	117	120	-7.489834311	-10.64884345	-10.35634898	2.323472627	-1.413184994
2.094395102	2.094395102	120	120	-8.851934635	-18.24291786	-9.382766871	3.029622479	-1.046931595
2.14675498	2.094395102	123	120	-10.95508836	-15.56853314	-12.79708746	0.79321033	-0.392243087
2.199114858	2.094395102	126	120	-7.576880529	-8.184205384	-16.42063737	1.146714003	0.240403534
2.251474735	2.094395102	129	120	-6.909501248	-7.318936486	-17.3686016	1.776399693	-0.84323605
2.303834613	2.094395102	132	120	-4.867755399	-6.950459055	-9.059139102	2.515275921	-1.213458288
2.35619449	2.094395102	135	120	-5.103617088	-8.115805157	-8.112029752	2.878756509	-1.084355051
2.408554368	2.094395102	138	120	-10.89305599	-13.47435861	-14.37942165	2.555903685	-0.574876046
2.460914245	2.094395102	141	120	-11.57544037	-12.96918753	-17.18969621	1.85380504	1.207640643
2.513274123	2.094395102	144	120	-10.66981664	-11.28856303	-19.43823371	2.436877843	1.981383905
2.565634	2.094395102	147	120	-7.098122261	-7.520870505	-17.42480688	-3.039726756	-1.836386063
2.617993878	2.094395102	150	120	-5.583656426	-6.944182358	-11.28694978	-2.567953412	-1.430635529
2.670353756	2.094395102	153	120	-9.931008867	-12.3344116	-13.64700974	-1.776314901	-1.044215455
2.722713633	2.094395102	156	120	-10.3092304	-11.55374916	-16.34446894	-0.245008349	0.026355091
2.775073511	2.094395102	159	120	-9.306179181	-11.80571266	-12.89542327	0.29120858	0.40575301
2.827433388	2.094395102	162	120	-11.67710943	-22.47431678	-12.05450493	1.844505126	0.34320471
2.879793266	2.094395102	165	120	-10.72974122	-13.03033797	-14.58881675	3.090562906	0.767797339
2.932153143	2.094395102	168	120	-10.0268751	-15.20670233	-11.5970478	-3.108741528	2.006219791
2.984513021	2.094395102	171	120	-7.691405534	-38.25027049	-7.695225758	-2.474909761	2.536522778
3.036872899	2.094395102	174	120	-9.189391673	-20.75231126	-9.50351775	-1.210871676	3.119334314
3.089232776	2.094395102	177	120	-9.070584372	-13.05880338	-11.28320252	-1.844132347	-1.805562039
3.141592654	2.094395102	180	120	-6.899043844	-12.13711303	-8.444091622	-1.887254459	-0.811133227
-3.14159265	2.35619449	-180	135	-6.899044067	-13.52387591	-7.964360594	0.833180874	2.18909198
-3.08923278	2.35619449	-177	135	-8.272499708	-20.96097961	-8.512880592	1.639332921	-3.076383578
-3.0368729	2.35619449	-174	135	-4.733343809	-10.83227944	-5.956930147	-3.122845678	-2.189869459
-2.98451302	2.35619449	-171	135	-4.957259061	-8.975512392	-7.150036166	-2.911645472	-1.741207183
-2.93215314	2.35619449	-168	135	-17.32129692	-19.82089227	-20.91046149	-2.450188345	-0.995932098
-2.87979327	2.35619449	-165	135	-8.951692565	-12.27658237	-11.6686595	0.330719252	1.897906561
-2.82743339	2.35619449	-162	135	-5.118369499	-8.42696134	-7.849555365	0.868746872	2.795697586
-2.77507351	2.35619449	-159	135	-2.116119487	-7.428044164	-3.629990337	1.635855683	-2.566073236
-2.72271363	2.35619449	-156	135	0.13614913	-6.746725437	-0.860073047	2.209102921	-1.999659841
-2.67035376	2.35619449	-153	135	-0.168719138	-10.51458336	-0.589511289	2.644059096	-1.475562999
-2.61799388	2.35619449	-150	135	-0.590239269	-17.39240905	-0.681891253	-2.181563105	-0.900064616
-2.565634	2.35619449	-147	135	-0.041577111	-12.47047952	-0.297207753	-1.357169806	-0.487776943
-2.51327412	2.35619449	-144	135	-0.456652286	-14.37405091	-0.636542659	-1.241580198	-0.237695316
-2.46091425	2.35619449	-141	135	-1.527843562	-19.51591269	-1.597418286	-0.380949095	0.098143521
-2.40855437	2.35619449	-138	135	-0.992127517	-11.57604011	-1.389416076	0.326987147	0.637091978
-2.35619449	2.35619449	-135	135	0.685853599	-7.452985626	-0.037890735	0.398138338	1.116561039
-2.30383461	2.35619449	-132	135	0.82639688	-7.648704878	0.160936217	0.64830069	1.506206728
-2.25147474	2.35619449	-129	135	-0.035546568	-8.372503334	-0.724312889	1.394494701	1.939935683
-2.19911486	2.35619449	-126	135	0.262725911	-5.573563318	-1.04987853	1.959493024	2.330769592
-2.14675498	2.35619449	-123	135	0.683685249	-4.76922823	-0.772711525	2.126643437	2.47804242
-2.0943951	2.35619449	-120	135	0.425940307	-6.762379255	-0.4948925	2.257373983	2.491041033
-2.04203522	2.35619449	-117	135	0.03805281	-9.390896573	-0.487867577	2.663474557	-2.611871413
-1.98967535	2.35619449	-114	135	0.135069562	-8.719363212	-0.470655186	3.141161819	2.912761688
-1.93731547	2.35619449	-111	135	0.539943964	-8.191629603	-0.084471613	-2.933878543	-3.065780575
-1.88495559	2.35619449	-108	135	0.227168883	-10.12035024	-0.193454934	-2.674997786	-2.903796177
-1.83259571	2.35619449	-105	135	-0.630022843	-11.18555874	-1.030039473	-2.136599253	-2.843871429
-1.78023584	2.35619449	-102	135	-0.951614335	-8.99824595	-1.692291212	-1.92623064	-2.769146912
-1.72787596	2.35619449	-99	135	-0.517950067	-7.480104711	-1.493963933	-2.079916751	-2.630968902
-1.67551608	2.35619449	-96	135	-0.18853396	-7.537126903	-1.072360773	-2.255304485	-2.513941869
-1.6231562	2.35619449	-93	135	-0.668177805	-9.038982057	-1.351153485	-2.253666597	-2.472662979
-1.57079633	2.35619449	-90	135	-1.401849747	-9.440609005	-2.143992092	-2.066806138	-2.492384924
-1.51843645	2.35619449	-87	135	-1.16602888	-7.160605488	-2.424125449	-2.075337064	-2.524420339
-1.46607657	2.35619449	-84	135	-0.081700162	-4.661401205	-1.941631439	-2.284119578	-2.551225647
-1.41371669	2.35619449	-81	135	0.529159522	-3.436867914	-1.698266006	-2.504065118	-2.621810193
-1.36135682	2.35619449	-78	135	-0.005458395	-3.682592873	-2.437814962	-2.684152688	-2.77848726
-1.30899694	2.35619449	-75	135	-1.13815467	-4.427312791	-3.886426576	-2.81649755	-2.994091125
-1.25663706	2.35619449	-72	135	-1.739082467	-4.198111501	-5.380943879	-2.907854926	-3.122555931
-1.20427718	2.35619449	-69	135	-1.397729064	-3.057769719	-6.377998571	-3.011115415	-3.056495772
-1.15191731	2.35619449	-66	135	-0.890449106	-2.334347856	-6.374890377	3.11433421	-2.984424957
-1.09955743	2.35619449	-63	135	-0.894885062	-2.541144954	-5.904903541	2.898238568	3.141481619
-1.04719755	2.35619449	-60	135	-0.95978819	-3.11261672	-5.03957635	2.670478292	2.822614112
-0.99483767	2.35619449	-57	135	-0.764887112	-3.317878988	-4.286378786	2.51750205	2.535806481

-0.9424778	2.35619449	-54	135	-0.76979568	-3.108532462	-4.574843187	2.421701657	2.29803311
-0.89011792	2.35619449	-51	135	-1.210442842	-3.071189298	-5.788619436	2.254503691	2.014515383
-0.83775804	2.35619449	-48	135	-1.949615812	-3.598299674	-6.954379937	1.937053741	1.663228253
-0.78539816	2.35619449	-45	135	-2.91620005	-4.500328698	-8.06415359	1.504046436	1.357924476
-0.73303829	2.35619449	-42	135	-4.60342753	-5.890088208	-10.5140893	1.04783641	1.11383105
-0.68067841	2.35619449	-39	135	-7.25050822	-8.075627461	-14.8692139	0.594672074	0.769250698
-0.62831853	2.35619449	-36	135	-9.849157665	-10.57908306	-17.95406831	0.17148932	0.215104142
-0.57595865	2.35619449	-33	135	-11.62003936	-12.95531254	-17.39272542	-0.096500973	-0.065560827
-0.52359878	2.35619449	-30	135	-12.89748294	-15.44080315	-16.43109289	-0.211697121	-0.242825493
-0.4712389	2.35619449	-27	135	-13.57530413	-18.00581609	-15.51714407	-0.423840578	-0.716884269
-0.41887902	2.35619449	-24	135	-12.43088236	-19.44619618	-13.39360258	-0.82585818	-1.301321758
-0.36651914	2.35619449	-21	135	-11.56413512	-20.58542477	-12.14542922	-0.990574205	-1.780869352
-0.31415927	2.35619449	-18	135	-12.21385212	-24.27769622	-12.49263393	-0.523228791	-2.363379706
-0.26179939	2.35619449	-15	135	-11.32929069	-22.98404885	-11.6366056	0.589013908	-3.093571991
-0.20943951	2.35619449	-12	135	-8.894956363	-19.25067731	-9.314746943	0.991071934	2.676634587
-0.15707963	2.35619449	-9	135	-7.256495299	-17.90787116	-7.647375958	0.986112426	2.368184365
-0.10471976	2.35619449	-6	135	-6.536855994	-17.62221618	-6.889013707	0.687116821	2.143173372
-0.05235988	2.35619449	-3	135	-6.774719422	-17.63270599	-7.146638902	0.153178446	1.96395821
-4.4409E-16	2.35619449	0	135	-8.185289942	-17.02608129	-8.793060068	-0.615961667	1.800671547
0.052359878	2.35619449	3	135	-9.694519759	-14.23139222	-11.57752132	1.839222882	-1.547015368
0.104719755	2.35619449	6	135	-9.650846334	-12.21045621	-13.1640808	1.473422257	-1.76662464
0.157079633	2.35619449	9	135	-9.027756798	-12.3100569	-11.78209266	1.233025912	-1.807120848
0.20943951	2.35619449	12	135	-8.128619602	-13.20527233	-9.744507402	0.938592767	-1.804468235
0.261799388	2.35619449	15	135	-7.375568682	-12.45109334	-8.99196504	0.601767119	-1.969812794
0.314159265	2.35619449	18	135	-6.448160401	-10.68172535	-8.505109407	0.34567898	-2.372444317
0.366519143	2.35619449	21	135	-4.939587779	-9.68088019	-6.715538094	0.041891851	-2.748028776
0.41887902	2.35619449	24	135	-3.770508255	-8.696387739	-5.456105085	-0.409444281	-2.926165661
0.471238898	2.35619449	27	135	-3.358725501	-6.828567858	-5.9534895	-0.793303637	-3.089440966
0.523598776	2.35619449	30	135	-3.469361354	-5.69944108	-7.431430908	-0.993613436	2.778521766
0.575958653	2.35619449	33	135	-3.330307137	-6.080517777	-6.617270431	-1.156365871	2.16841841
0.628318531	2.35619449	36	135	-2.838095099	-4.906577837	-4.906577837	-1.441772903	1.776929002
0.680678408	2.35619449	39	135	-2.63292538	-7.02556992	-4.596261821	-1.755527583	1.44458228
0.733038286	2.35619449	42	135	-2.574273122	-7.410604674	-4.302988741	-1.841896123	1.025061213
0.785398163	2.35619449	45	135	-2.342822921	-10.74615317	-3.020283587	-1.62874294	0.705544735
0.837758041	2.35619449	48	135	-2.357592202	-17.26769884	-2.500113652	-0.677403535	0.544612881
0.890117919	2.35619449	51	135	-3.431823368	-15.58496052	-3.704749707	0.594392618	0.338800625
0.942477796	2.35619449	54	135	-4.657679272	-15.11857246	-5.066937304	1.078224902	-0.135107985
0.994837674	2.35619449	57	135	-3.750326026	-17.30548453	-3.94622243	1.143627061	-0.5708448
1.047197551	2.35619449	60	135	-3.307286935	-16.30018388	-3.530968765	0.698761614	-0.68565049
1.099557429	2.35619449	63	135	-5.262462686	-13.42961364	-5.981092719	0.527934213	-0.734887257
1.151917306	2.35619449	66	135	-9.028142457	-15.08674191	-10.26493684	0.440279504	-1.343302951
1.204277184	2.35619449	69	135	-5.404312372	-19.38018459	-5.581747098	-0.509558823	-2.089599134
1.256637061	2.35619449	72	135	-1.262666354	-12.70372975	-1.586072244	-0.920387428	-2.12059506
1.308996939	2.35619449	75	135	-0.044995683	-8.897245063	-0.651047311	-0.457375864	-2.042022816
1.361356817	2.35619449	78	135	-0.731109364	-7.162017757	-1.851911759	0.109958743	-2.039858517
1.413716694	2.35619449	81	135	-2.190952381	-8.782782847	-3.265488092	0.716768813	-2.2225149
1.466076572	2.35619449	84	135	-2.338308662	-13.79352768	-2.660622103	1.949042134	-2.424544336
1.518436449	2.35619449	87	135	-1.254530775	-10.96184102	-1.74587865	-2.840511744	-2.462077721
1.570796327	2.35619449	90	135	-1.728536955	-9.654676755	-2.491993062	-1.886896159	-2.472446245
1.623156204	2.35619449	93	135	-3.528678162	-9.339701435	-4.85023375	-0.86871337	-2.649496578
1.675516082	2.35619449	96	135	-4.620429158	-10.86264818	-5.798387329	0.01024124	-3.009920266
1.72787596	2.35619449	99	135	-4.24432645	-15.23041354	-4.604974185	1.737861919	-3.116178879
1.780235837	2.35619449	102	135	-2.677506388	-7.994821895	-4.189130935	3.03379217	-3.028379568
1.832595715	2.35619449	105	135	-2.814198861	-6.180994469	-5.495059601	-2.60434573	-3.051974363
1.884955592	2.35619449	108	135	-3.968961365	-7.330647529	-6.654189817	-1.874116114	2.916600073
1.93731547	2.35619449	111	135	-3.814322805	-9.811138259	-5.071667359	-1.342065541	2.788108436
1.989675347	2.35619449	114	135	-3.077417409	-14.55582152	-3.397949823	-1.34440875	3.119857751
2.042035225	2.35619449	117	135	-0.916784581	-6.198490701	-2.443320667	-2.701329627	-2.642334932
2.094395102	2.35619449	120	135	-0.066467829	-3.048283434	-3.105440194	-2.384581458	-2.056654585
2.14675498	2.35619449	123	135	-0.668514367	-2.628259462	-5.067449364	-1.807821587	-1.25500669
2.199114858	2.35619449	126	135	-1.158714125	-3.088475836	-5.610731588	-1.24134109	-0.401100833
2.251474735	2.35619449	129	135	-4.20553936	-6.7252079	-7.76904218	-0.895442752	0.130236412
2.303834613	2.35619449	132	135	-16.09230504	-20.24929782	-18.19630779	-1.275878773	0.607770024
2.35619449	2.35619449	135	135	-13.0225604	-14.30073663	-18.95792133	-2.685672185	-2.563833258

2.408554368	2.35619449	138	135	-9.630355185	-10.87547565	-15.663781	-1.768402615	-1.645382321
2.460914245	2.35619449	141	135	-4.877894565	-6.135809544	-10.87301165	-1.088309215	-0.69602589
2.513274123	2.35619449	144	135	-3.472139003	-5.478368889	-7.790742672	-0.81997119	-0.439999999
2.565634	2.35619449	147	135	-5.847042191	-9.600344336	-8.223077681	-0.608158218	-0.390102148
2.617993878	2.35619449	150	135	-9.211997398	-15.47887093	-10.38230215	-0.059343542	-0.145701725
2.670353756	2.35619449	153	135	-7.94690164	-13.29484112	-9.445840098	0.211302032	0.433910989
2.722713633	2.35619449	156	135	-5.432481305	-11.03589064	-6.830339848	0.046157798	0.6955247
2.775073511	2.35619449	159	135	-6.714349103	-15.48182042	-7.333240325	-0.112625912	0.770423869
2.827433388	2.35619449	162	135	-11.52004669	-20.93695807	-12.04751928	-2.941498426	1.068085559
2.879793266	2.35619449	165	135	-9.791309341	-13.49197697	-12.20608073	-3.055427478	2.210814152
2.932153143	2.35619449	168	135	-7.043662465	-22.38948181	-7.172375381	-2.339951423	2.536985624
2.984513021	2.35619449	171	135	-5.668732841	-13.05968512	-6.543056211	-0.551297651	2.682058773
3.036872899	2.35619449	174	135	-7.788940496	-11.36013019	-10.302574	-0.666584138	-3.021902013
3.089232776	2.35619449	177	135	-8.60976216	-14.7914551	-9.806752907	-1.560886274	-1.715577158
3.141592654	2.35619449	180	135	-6.899044067	-13.52387591	-7.964360594	-2.308411779	-0.952500674
-3.14159265	2.617993878	-180	150	-6.899044107	-13.64828067	-7.93039961	0.32509611	2.055892569
-3.08923278	2.617993878	-177	150	-8.582807326	-16.62451214	-9.324400975	0.778156835	3.044768238
-3.0368729	2.617993878	-174	150	-5.294815933	-12.2048463	-6.284063957	2.44835357	-2.364194728
-2.98451302	2.617993878	-171	150	-4.786109475	-8.683865654	-7.059891596	2.903853156	-1.850876637
-2.93215314	2.617993878	-168	150	-10.28609107	-12.85345267	-13.78968966	-2.680688079	-0.548526243
-2.87979327	2.617993878	-165	150	-5.683654728	-11.66184274	-6.947271936	-0.962471146	1.051251774
-2.82743339	2.617993878	-162	150	-1.835068444	-7.588384983	-3.177335144	-0.195383694	1.784564063
-2.77507351	2.617993878	-159	150	0.194468954	-6.603778464	-0.823842765	0.518645212	2.508930866
-2.72271363	2.617993878	-156	150	0.40677099	-5.932872702	1.006536112	1.165854001	3.080761483
-2.67035376	2.617993878	-153	150	0.482363434	-7.311384203	1.325217352	1.69711099	-2.742705107
-2.61799388	2.617993878	-150	150	0.411233399	-10.00192517	0.761415564	2.534009594	-2.296251383
-2.565634	2.617993878	-147	150	0.350456858	-7.913127806	0.575186628	-2.959352363	-1.921137125
-2.51327412	2.617993878	-144	150	0.507562109	-6.260482476	0.832851077	-2.675735611	-1.679893112
-2.46091425	2.617993878	-141	150	0.710085657	-6.73020533	1.155325916	-2.390292484	-1.450199767
-2.40855437	2.617993878	-138	150	0.906245532	-6.575053699	1.704527574	-1.840571665	-1.123800805
-2.35619449	2.617993878	-135	150	1.413917369	-4.312454964	2.610992364	-1.416837907	-0.784721434
-2.30383461	2.617993878	-132	150	1.415389617	-3.3390524	3.01002803	-1.235745335	-0.544291716
-2.25147474	2.617993878	-129	150	1.38987064	-4.476562012	2.253733824	-1.079768818	-0.393085427
-2.19911486	2.617993878	-126	150	0.93058036	-6.17001021	0.722400988	-0.773025155	-0.27576565
-2.14675498	2.617993878	-123	150	0.589855022	-5.852128054	-0.527691974	-0.442729863	-0.149355571
-2.0943951	2.617993878	-120	150	0.355247651	-5.054326184	-1.118538004	-0.318336824	-0.024155788
-2.04203522	2.617993878	-117	150	-0.582572465	-5.986780213	-2.058528099	-0.268973933	-0.080314505
-1.98967535	2.617993878	-114	150	-3.031230252	-8.984747463	-4.303210775	-0.103596275	0.189992242
-1.93731547	2.617993878	-111	150	-6.030978324	-11.5913296	-7.445298648	0.277560935	0.345944245
-1.88495559	2.617993878	-108	150	-7.220884691	-11.51506058	-9.241522078	0.439309436	0.485865257
-1.83259571	2.617993878	-105	150	-6.962035269	-11.47298094	-8.859174092	0.294366317	0.483813678
-1.78023584	2.617993878	-102	150	-7.171473793	-13.22323048	-8.410525043	0.193010257	0.431555512
-1.72787596	2.617993878	-99	150	-8.319939032	-16.60757853	-9.017237821	0.525427446	0.401401753
-1.67551608	2.617993878	-96	150	-8.302652636	-14.6974786	-9.43413634	1.046561778	0.354760983
-1.6231562	2.617993878	-93	150	-6.127676368	-10.93971161	-7.86832061	0.954587031	0.233034252
-1.57079633	2.617993878	-90	150	-3.530770591	-8.204195315	-5.341415372	0.723938575	0.080369594
-1.51843645	2.617993878	-87	150	-1.881877907	-6.641629001	-3.648532586	0.604531167	-0.082337101
-1.46607657	2.617993878	-84	150	-1.211610926	-5.848467548	-3.041293018	0.603062283	-0.273449674
-1.41371669	2.617993878	-81	150	-0.725519929	-4.935857286	-2.79660117	0.612358253	-0.473773776
-1.36135682	2.617993878	-78	150	0.04731233	-3.692130587	-2.33884388	0.541049991	-0.675750156
-1.30899694	2.617993878	-75	150	0.811238299	-2.594511594	-1.836633755	0.418490041	-0.740069898
-1.25663706	2.617993878	-72	150	1.096052116	-2.139140537	-1.700429737	0.299796233	-0.879236158
-1.20427718	2.617993878	-69	150	0.795620039	-2.422755708	-2.016119153	0.188471585	-1.080734916
-1.15191731	2.617993878	-66	150	0.14706211	-3.112522932	-2.627488303	0.052911558	-1.301448664
-1.09955743	2.617993878	-63	150	-0.710131602	-3.812254794	-3.63050962	-0.123392691	-1.46868551
-1.04719755	2.617993878	-60	150	-1.826583843	-4.543644258	-5.151366125	-0.31333508	-1.569669983
-0.99483767	2.617993878	-57	150	-3.138172191	-5.598537917	-6.778279076	-0.486354094	-1.659915837
-0.9424778	2.617993878	-54	150	-4.190110378	-6.760132692	-7.690410413	-0.637398458	-1.78586262
-0.89011792	2.617993878	-51	150	-4.371564384	-7.161906435	-7.613559601	-0.780451853	-1.911075088
-0.83775804	2.617993878	-48	150	-3.829095185	-6.570030831	-7.12657758	-0.952192233	-2.024866409
-0.78539816	2.617993878	-45	150	-3.241472909	-5.903586872	-6.630326214	-1.194276826	-2.207232479
-0.73303829	2.617993878	-42	150	-2.899794562	-5.844106079	-5.977101103	-1.529582006	-2.508748056
-0.68067841	2.617993878	-39	150	-2.688451493	-6.30286331	-5.168502651	-1.938979996	-2.865505262
-0.62831853	2.617993878	-36	150	-2.8346435	-7.117326003	-4.862104435	-2.353811566	3.07187817

-0.57595865	2.617993878	-33	150	-3.664062669	-8.419403988	-5.432932677	-2.723808749	2.734406284
-0.52359878	2.617993878	-30	150	-4.932803567	-10.15187861	-6.485992288	-3.040043625	2.429949748
-0.4712389	2.617993878	-27	150	-6.147462701	-12.23065818	-7.376183776	2.978279306	2.259252501
-0.41887902	2.617993878	-24	150	-6.826727209	-15.23845232	-7.50277229	2.682064384	2.247141848
-0.36651914	2.617993878	-21	150	-6.529626978	-18.98447132	-6.783689785	2.02626006	2.234230577
-0.31415927	2.617993878	-18	150	-5.713780992	-17.53819336	-6.008912859	1.194918773	2.115220693
-0.26179939	2.617993878	-15	150	-5.187387965	-15.08605721	-5.656369186	0.986035691	1.944243418
-0.20943951	2.617993878	-12	150	-5.247043085	-14.36784056	-5.81427061	1.077575569	1.815667165
-0.15707963	2.617993878	-9	150	-5.673654708	-14.28505112	-6.316953357	1.186614651	1.781437196
-0.10471976	2.617993878	-6	150	-6.166812325	-14.85180373	-6.798475554	1.109666031	1.819930702
-0.05235988	2.617993878	-3	150	-6.850030119	-16.81572223	-7.311433796	0.80958768	1.861159008
-4.4409E-16	2.617993878	0	150	-8.185290058	-20.86339899	-8.426261902	0.143876012	1.864480617
0.052359878	2.617993878	3	150	-9.949235302	-20.32470712	-10.36702645	2.133333947	-1.318915926
0.104719755	2.617993878	6	150	-10.84861605	-16.80262765	-12.12042836	1.789799236	-1.399785095
0.157079633	2.617993878	9	150	-10.47485648	-15.81636154	-11.97644994	1.924220398	-1.43080511
0.20943951	2.617993878	12	150	-9.25279618	-15.54312263	-10.41587313	2.133557839	-1.343765487
0.261799388	2.617993878	15	150	-8.125608208	-15.07981259	-9.10362777	2.035572534	-1.22607657
0.314159265	2.617993878	18	150	-7.28330557	-13.00367372	-8.637566635	1.702176158	-1.220496195
0.366519143	2.617993878	21	150	-6.078114208	-10.4612655	-8.046886036	1.527221176	-1.473523661
0.41887902	2.617993878	24	150	-4.092991512	-9.583501907	-5.53449888	1.442771884	-1.833409093
0.471238898	2.617993878	27	150	-1.993569106	-10.06247275	-2.730116984	1.170503567	-2.031843442
0.523598776	2.617993878	30	150	-0.625762899	-8.460323733	-1.40704301	0.662634332	-2.141953737
0.575958653	2.617993878	33	150	0.025995928	-5.187774107	-1.529475638	0.439377511	-2.298591959
0.628318531	2.617993878	36	150	0.354230846	-3.652707548	-1.845994313	0.482956113	-2.584856746
0.680678408	2.617993878	39	150	0.665728634	-4.295943138	-1.002997656	0.640759624	-2.892903504
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	-10.47652219	-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
1.30896939	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