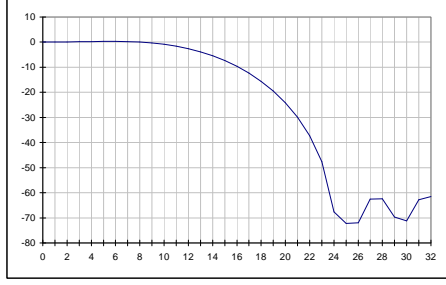
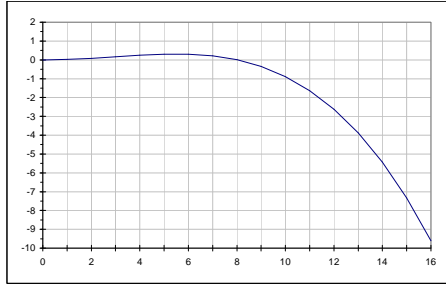
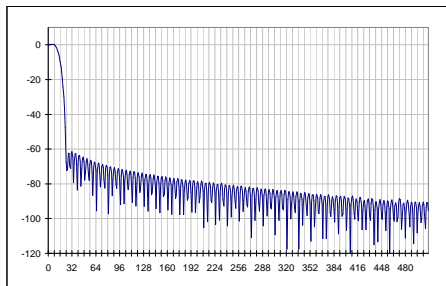


Resampling Filter Frequency Response  
(in Fin/32 steps)

coef	freq	fft
64	1044794.5	
105.0625	1 872589.657569954-579181.394385608i	
122.5625	2 409436.829008559-971563.276942434i	
140.5625	3 -197992.614765912-1045579.893009671i	
158.8125	4 -750237.466316028-768880.787941514i	
176.875	5 -1057102.38675063-227181.004523959i	
194.1875	6 -1006399.94649943+395322.263054628i	
210.25	7 -613968.283512278+877045.301203105i	
224.5625	8 -26651.467330906+1044924.3373345i	
236.75	9 534091.652113069+849175.597054072i	
246.125	10 859788.070225239+387447.318333623i	
251.75	11 854018.632335016-140102.026141592i	
252.6875	12 566100.325988177-525880.29800249i	
249.4375	13 156522.067630994-650203.503890585i	
239.9375	14 -191552.495137494-525171.836948792i	
224.3125	15 -361674.275543614-266519.888403562i	
201.5	16 -344904.896321909-16944.0910263598i	
170.8125	17 -216675.011728548+128968.095726049i	
131.6875	18 -75079.6080279925+156254.638572074i	
83.4375	19 15249.1636665916+109751.895180912i	
25.625	20 42790.5930228045+48392.5529268673i	
-42.4375	21 32145.395227794+8578.10849984102i	
-121.0625	22 13493.9965597707-4549.83628448856i	
-210.4375	23 2667.06914300492-3440.00994442038i	
-310.8125	24 31.9805162519906-433.549281027033i	
-422.25	25 124.73004033535+221.762989191029i	
-544.5	26 -235.463397185732-120.338796194622i	
-677.625	27 -772.727475367302+88.045414386104i	
-821	28 -607.972086375178+511.563450229832i	
-974.0625	29 -96.2840876469976+328.252138081239i	
-1136	30 -84.8957498576223-273.804431869269i	
-1306	31 -591.254742684849-482.202177022008i	
-1482.75	32 -875.836518420868-86.2623678107233i	
-1665	33 -544.697619463786+289.001902680075i	
-1851.25	34 -53.9036062523743+99.3750114448679i	
-2039.5	35 -36.3011345317955-406.934237700018i	
-2227.75	36 -463.331726335051-578.914675687743i	
-2414.25	37 -734.384648977446-235.133579053795i	
-2596.5	38 -488.209929077701+138.336442800958i	
-2772	39 -44.8297120566663+52.2396201677905i	
-2938	40 45.4308445153035-369.34489898471i	
-3092	41 -291.20744299885-592.97649177111995i	
-3230.75	42 -590.300448972331-339.202223674998i	
-3351.5	43 -462.094371168963+29.8127041825937i	
-3451.25	44 -71.962993391051+54.7529108025802i	
-3526.5	45 97.1518138320866-279.607924898775i	
-3574.75	46 -139.114042716832-541.261880503157i	
-3592.25	47 -454.797738840008-409.670188522669i	
-3576	48 -442.959028691118-65.7067649599181i	
-3523.5	49 -121.46632727959+56.9939384499262i	
-3431.25	50 110.292459250224-181.477260094109i	
-3297	51 -18.738186367967-469.573871679774i	
-3117.5	52 -324.225207808882-448.568819736962i	
-2891	53 -413.72375278927-155.231749354513i	
-2615	54 -177.468489229805+40.9973181877783i	
-2287.75	55 89.4537520863241-94.535282160308i	
-1907.75	56 66.9355408293-379.958984863473i	
-1473.5	57 -200.53048092183-457.0793789292i	
-984.25	58 -368.554181075238-236.566001823776i	
-439.25	59 -229.53949715306+3.52136799530169i	
161.25	60 40.3860516085204-27.7079438573444i	
817.25	61 112.261723493957-278.239750248734i	
1527.75	62 -88.3055209312384-430.131401572303i	
2292	63 -299.970413116423-298.135441578792i	
3108	64 -257.473304476114-51.214624530407i	
3974	65 -16.0563049679248+6.59310051704596i	
4887	66 126.99633861061-187.56179024361i	
5844	67 3.55736203661022-386.49566912519i	
6842	68 -224.276921247783-344.73838586208i	
7877	69 -272.476233543434-117.791915722609i	
8945	70 -85.0417073502933+15.2942356804503i	
10042	71 105.370907143224-100.939557811699i	
11161	72 70.3367208152313-13.223641592334i	
12298	73 -136.297301410139-356.48794992587i	
13448	74 -27.07054835598-180.565612881854i	
14604	75 -136.58275442494-4.6110877213114i	
15761	76 67.3585261289023+41.5051063900272i	
16911	77 110.001395816333-238.226900747791i	
18050	78 -53.8187977517504-348.087787575419i	
19170	79 -216.194561115178-237.06818901466i	
20266	80 -176.599817697126-44.2359515052909i	
21330	81 13.7853913930537-4.88483645831955i	
22356	82 121.077342011063-161.177474653503i	
23339	83 18.4282655020214-315.782937903685i	
24272	84 -162.253935128593-278.395848818463i	
25150	85 -197.588227912796-97.1886524848564i	
25966	86 -46.8898224950339+6.0756220091729i	
26717	87 103.226432462534-89.5975441648219i	
27397	88 71.9474447531219-259.984658794227i	
28002	89 -95.9226032763703-293.380744343486i	
28528	90 -190.530551653399-150.58167001395i	
29372	91 -96.8258312476269-8.03986761465249i	
29330	92 67.8041432540441-37.31893787854i	
29601	93 102.55830369191-196.186930644917i	
29782	94 -29.8877046302476-285.485840169489i	
29874	95 -161.804146766458-195.930060872727i	
29874	96 -129.973060371251-39.4268968219156i	
29782	97 25.0842385961927-7.52525941776453i	
29601	98 112.848159379284-135.798116819458i	
29330	99 28.408116290535-263.542588685488i	
28972	100 -121.252286590166-233.700948651916i	
28528	101 -151.880196078662-84.2021042363969i	
28002	102 -27.9217743641907+2.23197205695197i	
27397	103 97.3414400353785-76.4476823969296i	
26717	104 72.402102564742-219.164292546916i	
25966	105 -68.1277650945602-249.153293148251i	
25150	106 -149.726191899829-130.76556865078i	
24272	107 -73.4282199925486-9.7713939791244i	
23339	108 65.0961801089101-31.771506538275i	
22356	109 96.7983886431229-164.923576057198i	
21330	110 -13.4039580579878-242.476049551875i	
20266	111 -126.29419971216-169.20061965355i	
19170	112 -101.852766692501-36.443502654341i	

db	norm to dc	0
120.3806176	0.020909474	
120.401527	0.007865144	
120.4593827	0.0159528275	
120.5401458	0.241568193	
120.6221857	0.297812365	
120.6784299	0.297875366	
120.785929	0.210480097	
120.891077	0.003700714	
120.9843183	-0.353113721	
119.4907317	-0.889885821	
118.7446813	-1.635936208	
117.7598864	-2.620731176	
116.505637	-3.874980507	
114.9484699	-5.43214768	
113.0500967	-7.330520812	
110.764456	-9.616161519	
108.033262	-12.3473556	
104.7788002	-15.60181733	
100.8912818	-19.49933579	
96.20435275	-24.17626481	
90.4411246	-29.93949295	
83.07044294	-37.31017462	
72.77612127	-47.60449629	
52.76838614	-67.61628141	
48.11148587	-72.26913168	
48.4462898	-71.93432775	
57.81660896	-62.5640086	
58.00254516	-62.3780724	
50.68260434	-69.69801321	
49.14745818	-71.23315937	
57.64998428	-62.73063328	
58.89038694	-61.49023061	
55.80032212	-64.58029543	
41.06564552	-79.31497204	
52.22490804	-68.15570952	
57.40219341	-62.97842414	
57.74231195	-62.6383056	
54.10753462	-66.27308293	
36.76174504	-83.61897251	
51.39064945	-68.39899281	
56.28044797	-60.10016959	
66.660617	-63.72000055	
53.31265302	-67.06796453	
39.12570291	-81.25491465	
49.42598622	-70.95463133	
54.94595819	-65.43465936	
55.7364967	-64.64412086	
53.02179527	-67.35882228	
42.55329869	-77.82731887	
46.54161351	-73.83900405	
53.4409886	-66.93962896	
54.86197997	-65.51863759	
52.90622715	-67.47439041	
45.2082199	-75.17239765	
42.28885048	-78.09176707	
51.72440531	-68.65621224	
63.9671559	-62.13448536	
52.82837699	-67.55230457	
47.2181705	-73.16244706	
33.79987399	-86.58074357	
49.54339265	-70.8372249	
52.85131554	-67.52930201	
52.52530199	-67.85531556	
48.38316535	-71.9974522	
24.78961515	-95.59100241	
47.10180813	-73.27880942	
51.74326054	-68.63735702	
52.28258374	-68.09803382	
49.45065781	-70.92995974	
38.73088313	-81.64973442	
43.28212835	-77.0984892	
50.13074563	-70.24987193	
51.83307809	-68.74753947	
49.85196003	-70.52865752	
47.1286445	-77.6677531	
37.96563573	-82.41498183	
48.37918852	-72.00142904	
50.93637276	-69.4442448	
50.12590132	-70.25471624	
45.20409048	-75.17652707	
23.3020803	-97.07853726	
46.08931269	-74.29130487	
50.00253835	-70.3780792	
50.16325314	-70.21736442	
46.85623003	-73.52438752	
33.49388008	-86.88673747	
42.7145629	-77.66605465	
48.6194317	-71.76118586	
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47.70680953	-72.67301063	
39.7496748	-80.65080508	
37.7743755	-82.60627001	
46.90254572	-73.47807184	
49.15903176	-71.22158579	
48.10025208	-72.28036547	
42.65936968	-77.72124787	
28.36228228	-92.01833527	
44.93818103	-75.44243653	
48.46718759	-71.91342996	
48.40847593	-71.97214163	
44.79396608	-75.58665147	
28.9465228	-91.43049476	
41.85247542	-78.52814214	
47.26523879	-73.11537877	
48.24247939	-72.13813816	
45.96790159	-74.41271597	
37.40070095	-82.9799154	
37.19902095	-83.18155551	
45.63212863	-74.74937893	
47.706628	-72.67389856	
46.49131049	-73.88930707	
40.68264361	-79.69797395	



linear power	passband	alias band	alias energy
1	9.3102486	2.5101E-05	-55.69273
1.004826193	0 to fin/4	0.75 * fin	db
1.018301807		to 32 fin	
1.037415727		- 0.75 fin	
1.057199184			
1.070979684			
1.071019891			
1.049852624			
1.000852484			
0.921910217			
0.814275704</			

Resampling Filter Frequency Response  
(in Fin/32 steps)

18050	113	29.4581942944323-7.2829198223239i	29.64177636	-90.73884412	8.4356E-10
16911	114	106.486028227995-116.050165217685i	43.9457276	-76.43488996	2.27254E-08
15761	115	36.002456183661-228.217680855601i	47.27371051	-73.10690704	4.89E-08
14604	116	-94.6969033369342-206.746592608516i	47.13588455	-73.24473301	4.73725E-08
13448	117	-126.825408842335-78.6853704593486i	43.4783861	-76.90223145	2.04069E-08
12298	118	-24.0661426450017+0.738571747891886i	27.63221812	-92.74839943	5.3108E-10
11161	119	86.0331864547896-60.9871289558668i	40.46149272	-79.91912484	1.0188E-10
10042	120	70.557643990406-182.9138139252967i	45.84736427	-74.53325328	3.52107E-08
8945	121	-47.163778507537-213.085758945123i	46.7789337	-73.60181519	4.36533E-08
7877	122	-119.516204257053-115.195202726796i	44.40185655	-75.9787619	2.5242E-08
6842	123	-57.3151916868439-10.4894188297487i	35.30847339	-85.07214416	3.11018E-09
5844	124	62.2905206725446-26.7017728774657i	36.621053	-83.75956456	4.20769E-09
4887	125	92.873287393695-141.802847080188i	44.58388454	-75.79673302	2.63225E-08
3974	126	-1.3083040029025-213.21772640382i	46.57662967	-73.80398788	4.16487E-08
3108	127	-103.357428464797-153.662676595107i	45.35230506	-75.0283125	3.14173E-08
2292	128	-88.6220282658749-36.78044640327371i	39.63852679	-80.74209077	8.42929E-09
1527.75	129	23.3275515065979-4.56578393561674i	27.52064622	-92.85997134	5.1761E-10
817.25	130	94.938427589964-93.7804485452368i	42.50617039	-77.87444717	1.63138E-08
161.25	131	40.1485382668783-192.560567183672i	45.8761531	-74.50446445	3.54449E-08
-439.25	132	-71.7625420188024-179.447538923632i	45.72305509	-74.65756247	3.42171E-08
-984.25	133	-103.266760973649-71.3158662829785i	41.97279994	-78.40781761	1.44284E-08
-1473.5	134	-17.2182946005453-0.316986201388467i	24.72127436	-95.6593432	2.71685E-10
-1907.75	135	79.7832328623484-50.8657682335468i	39.51953577	-80.86108179	8.20147E-09
-2287.75	136	69.9071303020906-157.707958953775i	44.73615519	-75.64446236	2.72618E-08
-2615	137	-32.0617428860223-188.2022376838937i	45.61674775	-74.76369691	3.33897E-08
-2891	138	-99.078490364821-105.352317512875i	43.20471533	-77.17592022	1.91606E-08
-3117.5	139	-48.821425323216-11.4362141827544i	34.00420302	-86.37641453	2.30334E-09
-3297	140	56.3909402690532-20.9611002388922i	35.58625287	-84.79436469	3.31561E-09
-3431.25	141	87.7367479584986-120.60358480355i	43.47192612	-76.90869143	2.03766E-08
-3523.5	142	8.04466615940701-187.181487110912i	45.45327232	-74.92734524	3.21563E-08
-3576	143	-84.1117929360987-139.360664360177i	44.23183404	-76.14878351	2.42729E-08
-3592.25	144	-76.4239701719942-36.1458459251531i	38.54132617	-81.83929138	6.54743E-09
-3574.75	145	20.2351282991597-2.93817981052889i	26.21273227	-94.16788529	3.83011E-10
-3526.5	146	87.0059222593459-77.8905267764712i	41.34717715	-79.0334404	1.24927E-08
-3451.25	147	43.4509259903167-166.931975276771i	44.73549261	-75.64512495	2.72576E-08
-3351.5	148	-55.2099406958174-160.483469516934i	44.59438954	-75.78622802	2.63862E-08
-3230.75	149	-87.6368665846284-67.1038535843298i	40.85759504	-79.52302251	1.11609E-08
-3092	150	-15.2463486119675-1.03062016283256i	23.68311666	-96.6975009	1.23919E-10
-2938	151	72.2301850572345-0.2111188225649i	38.39827099	-81.98234656	6.33527E-09
-2772	152	68.3093415389703-135.70735396757i	43.63285705	-76.7477605	2.11458E-08
-2596.5	153	-20.1076180168608-167.25026967213i	44.52965685	-75.85096071	2.59958E-08
-2414.25	154	10.016086519244-97.424239609811i	42.14333769	-72.23727987	1.50062E-08
-2227.75	155	-43.1845883524015-12.3797952357427i	33.04957316	-87.32044439	1.84882E-08
-2039.5	156	49.8548309788588-15.7939370156069i	34.36949807	-86.01111949	2.50546E-09
-1851.25	157	82.1142925708592-101.955810054152i	42.33953657	-78.04108098	1.56997E-08
-1665	158	15.1509916479678-164.150093254783i	44.34166447	-76.03895308	2.48946E-08
-1482.75	159	-67.9604566132633-126.212142086409i	43.1272272	-77.25289483	1.88239E-08
-1306	160	-65.550750283349-35.0399176207345i	37.42353009	-82.95708746	5.06164E-09
-1136	161	18.4174760402222-1.75692788661402i	25.3439449	-95.03667266	3.13569E-09
-974.0625	162	80.6711430532985-65.3808605580256i	40.32719074	-80.05342681	9.87773E-09
-821	163	45.8551931219961-146.303126238288i	43.71202814	-76.66858941	2.15348E-08
-677.625	164	-42.0507885339875-145.0054612658i	43.57836484	-76.80225272	2.08821E-08
-544.5	165	-75.0984251501357-63.5842995610975i	39.85998118	-80.52063637	8.87026E-09
-422.25	166	-13.8528557144288-1.62235785842623i	22.8899475	-97.49067006	1.7821E-10
-310.8125	167	65.6523604704671-33.2994646319338i	37.33926106	-83.0413565	4.96437E-09
-210.4375	168	66.4804603425271-117.354424542084i	42.59873585	-77.7818817	1.66652E-08
-121.0625	169	-10.5495088683614-149.25635908559i	43.50029905	-76.88031851	2.05101E-08
-42.4375	170	-69.2718270603237-89.8955037263071i	41.09980702	-79.28153054	1.1799E-08
25.625	171	-37.0851265126884-12.824202781198i	31.85597136	-88.5248462	1.40454E-09
83.4375	172	46.478965327851-12.250442718351i	33.63680922	-86.4380834	2.1165E-09
131.8875	173	79.028098855881-88.824773920179i	41.50297366	-78.8776439	1.2949E-08
170.6125	174	21.0826129357985-148.395246022297i	43.51518517	-76.86543238	2.05805E-08
201.5	175	-56.4666574687556-118.44714949535i	42.35988016	-78.02073739	1.57734E-08
224.3125	176	-59.8320878546841-35.8619733541204i	36.87168523	-83.50893233	4.45766E-09
239.9375	177	13.4430824736944-0.619079955464047i	22.57917794	-97.80143961	1.65904E-10
249.4375	178	72.9626346712281-53.4219681473834i	39.12618043	-81.25443713	7.49128E-09
252.6875	179	46.8766977078182-127.30534849577i	42.64914031	-77.73147725	1.68598E-08
251.75	180	-31.1087763929863-130.992898895416i	42.58323432	-77.79738324	1.66059E-08
246.125	181	-64.6631351447263-60.4396168388995i	38.93984442	-81.44063313	7.1769E-09
236.75	182	-13.3294093016289-2.22870975951678i	22.61596611	-97.76465145	1.67315E-10
224.5625	183	59.0673053149504-26.3998546737171i	36.21788733	-84.16273022	3.83466E-09
210.25	184	64.0716721108185-101.180226980717i	41.56628416	-78.81433339	1.31391E-08
194.1875	185	-2.86540998163176-133.40497924135i	42.50544394	-77.87517361	1.16711E-08
176.875	186	-58.0046906229119-83.443245294229i	40.139876	-80.24074155	9.48076E-09
158.8125	187	-33.0542725435966-12.9111912738811i	31.01824769	-89.36236987	1.15815E-09
140.5625	188	-2390780579104-8.7303797881177i	32.49658366	-87.88404339	1.62778E-09
122.5625	189	73.7152346901017-75.0848118390188i	40.44212929	-79.9384827	1.01426E-08
105.0625	190	25.068682429117-130.15835941794i	42.44753115	-77.93308641	1.6095E-08
64	191	-44.4196815956372-106.314873063953i	41.23065947	-79.14995809	1.2162E-08
0	192	-49.3578945850115-32.9798907743772i	35.47020489	-84.91041267	3.22819E-09
0	193	16.08587783665924-935.10099314953E-002i	24.1289362	-96.25168135	2.37046E-10
0	194	71.6659934944529-47.2522119372993i	38.67395953	-81.70665802	6.75047E-09
0	195	49.6041022948931-116.70505685947i	42.06303255	-78.317585	1.47313E-08
0	196	-23.0221192878807-123.651582488684i	41.99199117	-78.38862638	1.44923E-08
0	197	-58.2811006966726-60.0971426530279i	38.45615984	-81.92445771	6.42028E-09
0	198	-14.9468297017052-3.26021689693481i	23.69284026	-96.6877773	2.14399E-10
0	199	52.3437356661292-20.375909807186i	34.9900547	-85.39056285	2.89031E-09
0	200	61.4015695421377-87.1835300531338i	40.55803268	-79.82258488	1.0417E-08
0	201	3.294995221115-119.303167602451i	41.53635099	-78.84426656	1.30489E-08
0	202	-47.8625998003946-76.6514330226235i	39.12125595	-81.25936161	7.48279E-09
0	203	-27.1132168444975-12.3182739516455i	29.47858202	-90.90203554	8.1245E-10
0	204	-41.3850573521053-6.68583121318231i	32.44787601	-87.93274154	1.60963E-09
0	205	73.9831989082596-68.3052274303955i	40.0600017	-80.32061586	9.28835E-09
0	206	30.1243187721138-123.472481897501i	42.08251267	-78.29810488	1.47975E-08
0	207	-38.2863102213094-105.976918490563i	41.0369368	-79.34362387	1.16316E-08
0	208	-50.3762642567967-37.3615839051969i	35.94796373	-84.43265383	3.60358E-09
0	209	5.72866344783646-0.299051636045526i	15.17288513	-105.2077324	3.01458E-11
0	210	59.9791382545984-35.4516965374409i	36.86128385	-83.5193337	4.44699E-09
0	211	47.0179537642693-97.0889485275336i	40.65839239	-79.72222516	1.06605E-08
0	212	-14.5328226426223-107.003540228818i	40.66734326	-79.71327429	1.06825E-08
0	213	-46.559950293281-52.9820501918365i	36.96786679	-83.41275077	4.55748E-08
0	214	-8.30031929319104-2.24226943411611i	18.6878001	-101.6928175	6.77202E-11
0	215	53.784429043841-17.951178323737i	35.07182276	-85.3087948	2.94524E-09
0	216	63.58857984243-81.4812349107669i	40.28680997	-80.09380758	9.78632E-09
0	217	8.87613273994724-115.499759125115i	41.27719509	-79.10342247	1.2293E-08
0	218	-43.9829367078993-78.7637546136283i	39.1052984	-81.27531915	7.45535E-09
0	219	-31.3919870987729-16.1652279379333i	30.95786848	-89.42274907	1.14216E-09
0	220	30.1672517233499-3.34548521471564i	29.64380022	-90.73681734	8.43953E-10
0	221	65.1116963453333-54.4463544384613i	38.585757	-81.80491756	6.59946E-09
0	222	31.3801771886894-106.77878912399i	40.85428579	-79.52633176	1.11524E-08
0	223	-28.945584175997-94.377488906341i	39.88779939	-80.49281816	8.92726E-09
0	224	-42.115449104081-34.5632558459433i	34.72512139	-85.65549617	2.71926E-09
0	225	7.0277276970001+0.71394736209264i	16.98089035	-103.3997272	4.57117E-11
0	226	57.5263158373364-30.2961109568055i	36.26045743	-84.12016012	3.87243E-09

Resampling Filter Frequency Response  
(in Fin/32 steps)

0	227	47.9097857903813-87.6820734441733i	39.99282543	-80.38779213	9.14578E-09
0	228	-8.60071809605092-99.8749690260574i	40.02122059	-80.35939696	9.20577E-09
0	229	-41.1902792529505-51.7905252612719i	36.41364791	-83.96696965	4.01147E-11
0	230	-8.93227867368881-2.89015930025936i	19.45166262	-100.9289549	8.07429E-11
0	231	49.0597332003597-13.7388350611741i	34.14239942	-86.23821813	2.37782E-09
0	232	61.8392520960016-71.688878760923i	39.52472217	-80.85589538	8.21127E-09
0	233	13.4721947780063-106.538256371422i	40.61900872	-79.76160884	1.05643E-09
0	234	-37.8248866524621-76.3074353661161i	38.60550414	-81.77511341	6.6498E-09
0	235	-30.6742573679779-17.925255397914i	31.07453988	-83.30607767	1.17325E-09
0	236	23.9861055430103-1.47361883717654i	27.61555607	-92.76506148	5.29047E-10
0	237	59.2647488336472-44.8050654932312i	37.41923682	-82.96138073	5.05664E-09
0	238	32.595049626775-92.9027425123748i	39.86487227	-80.51574529	8.88026E-09
0	239	-21.863497153524-86.1615872545663i	38.97277771	-81.40333984	7.23879E-09
0	240	-36.5621500088251-33.1380011538307i	33.86484328	-86.51577427	2.3306E-09
0	241	6.39589794469591+0.968805162516738i	16.21654926	-104.1640683	3.83348E-11
0	242	53.9988584250717-25.135275586338i	35.49941843	-84.88119912	3.24998E-09
0	243	48.06855317497-78.5488944575511i	39.28422207	-81.09639548	7.76892E-09
0	244	-3.43415859409854-93.2379919186516i	39.39774592	-80.98287164	7.97467E-09
0	245	-36.7800448713503-51.2157892237376i	35.99427672	-84.38634084	3.64222E-09
0	246	-10.9767494937621-4.15700689424822i	21.39153825	-98.9890793	1.2621E-10
0	247	42.2436229078734-9.62235414896671i	32.73490504	-87.64571251	1.71961E-09
0	248	57.7516342589177-60.6584383859058i	38.46008942	-81.92052814	6.4261E-09
0	249	16.7492685347974-94.800838575771i	39.669737	-80.71088055	8.49008E-09
0	250	-30.8041366675456-70.6601529465678i	37.73914524	-82.64147232	5.44318E-09
0	251	-27.7634511720283-17.94111948261398i	30.38498157	-83.99533599	1.00101E-09
0	252	20.71419646764870.254214197004892i	26.32601588	-94.05460168	3.93133E-10
0	253	54.5745894105993-37.1966470879951i	36.39683308	-83.98378447	3.99596E-09
0	254	33.091728895191-81.297866467827i	38.86739142	-81.51322613	7.05793E-09
0	255	-15.6130099473718-77.2524796312209i	37.9321129	-82.44850465	5.69049E-09
0	256	-30-30i	32.55272505	-87.8278925	1.64896E-09
0	257	8.80182570689338+1.7788131190867i	19.06531963	-101.3152979	7.38704E-11
0	258	53.8114616680066-21.9035796414683i	35.28330419	-85.09731336	3.09221E-09
0	259	49.8824175560936-73.1870388884546i	38.94570706	-81.43491049	7.18636E-09
0	260	1.109822856465941-90.4319622555361i	39.12709315	-81.25352441	7.49286E-09
0	261	-34.4171589157063-53.2597261823886i	36.04349114	-84.33712642	3.68373E-09
0	262	-15.4425588239557-6.73214921491578i	24.53003907	-95.85057848	2.59981E-10
0	263	32.9855308572252-5.82783361815876i	30.49996298	-89.88065457	1.02786E-09
0	264	51.2700871080628-48.8131807850605i	36.99954601	-83.38107154	4.59085E-09
0	265	18.3876920786502-80.7248120653798i	38.35982275	-82.0207948	6.27943E-09
0	266	-23.3319230634238-61.6089126575511i	36.37493407	-84.00568348	3.97587E-09
0	267	-21.2477546856075-15.2598362740396i	26.3524602	-92.02815736	6.2888E-10
0	268	22.6741739527943-0.8381337898975i	27.11651717	-93.26410038	4.71518E-10
0	269	54.6702371157219-33.4558394238899i	36.13643969	-84.24417787	3.76342E-09
0	270	35.5238749055579-76.3169946221319i	38.50415205	-81.87646551	6.49163E-09
0	271	-11.4402740329246-75.5268737198061i	37.66054892	-82.72006864	5.34556E-09
0	272	-29.2822798670166-32.30801713130640i	32.79041485	-87.5902027	1.74173E-09
0	273	2.83302667526391+0.718880334342437i	9.316017172	-111.0646004	7.826E-12
0	274	44.7579783830242-15.7055443183616i	33.52171082	-86.85890674	2.06115E-09
0	275	45.2315038007187-59.8288089429184i	37.50151503	-82.87910252	5.15335E-09
0	276	4.69316016935847-76.3906054340576i	37.6771603	-82.70345725	5.36604E-09
0	277	-25.9253307947013-44.798127058297i	34.27971897	-86.10089858	2.4542E-09
0	278	-8.27095390513545-4.09983499599191i	19.305279	-101.0753386	7.80668E-11
0	279	36.3347308224993-4.59467413413287i	31.27533596	-89.10528159	1.22877E-09
0	280	53.3154907760898-45.9902586246324i	36.95275464	-83.42786291	4.54165E-09
0	281	21.8248163092589-77.9338030124205i	38.16241317	-82.21820438	6.00039E-09
0	282	-19.9811669360884-61.7534650365716i	36.24564396	-84.13497359	3.85925E-09
0	283	-21.9005062513634-17.418011571121i	28.93772467	-91.44289288	7.17316E-10
0	284	17.128634579506-1.4788385130518i	24.72894178	-95.69167578	2.72165E-10
0	285	-48.7039513264903-26.610391389911i	34.88525107	-85.48536648	2.89139E-09
0	286	34.4962298119974-65.501509866127i	37.38815243	-82.44646513	5.02058E-09
0	287	-6.75312880158497-66.4742988637414i	36.49766714	-83.88295041	4.09893E-09
0	288	-23.1751021727217-28.2389437033228i	31.25326161	-89.12735594	1.22254E-09
0	289	6.15433982569035+1.88753656594211i	16.17406049	-104.2065571	3.79616E-11
0	290	45.5848102948104-13.5231215591353i	33.54271701	-86.83790055	2.07114E-09
0	291	46.8465265844683-66.0231600225339i	37.26987179	-83.11074576	4.88568E-09
0	292	8.20985374859478-74.0307335859104i	37.44132633	-82.93929122	5.08242E-09
0	293	-23.6529328156196-45.9326997829596i	34.26393179	-86.11668576	2.4453E-09
0	294	-10.8837830645472-6.07767803882859i	21.91436773	-98.46624983	1.42356E-10
0	295	29.712684974619-2.28341373083357i	29.48441148	-90.89620607	8.13541E-10
0	296	48.0290527151377-37.4822406248261i	35.69573834	-84.68487921	3.40026E-09
0	297	22.3443346112043-66.9469857495937i	36.97331206	-83.40730549	4.5632E-09
0	298	-14.5382134460908-53.8168213502898i	34.92426498	-85.45632528	2.84685E-09
0	299	-16.2779869854817-14.3048874510278i	26.71730553	-93.66331202	4.30198E-10
0	300	19.8065978924152-2.69050541964439i	26.01557803	-94.36503953	3.66013E-10
0	301	49.6114395256945-24.0256835818911i	34.82663297	-85.5398459	2.78357E-09
0	302	36.603931271509-63.9285526174058i	37.13908001	-83.24151954	4.74076E-09
0	303	-3.38272585733937-64.7998393480218i	36.24329754	-84.13732002	3.85716E-09
0	304	-21.7359179613894-29.3074928872572i	31.24301786	-89.13759869	1.21966E-09
0	305	3.39132954065752+1.22518654726751i	11.1401678	-109.2404498	1.19112E-11
0	306	40.7024529344977-9.93042051284448i	32.44352077	-87.93709679	1.60802E-09
0	307	44.5049483285767-48.2044869545386i	36.33908888	-84.04152867	3.94318E-09
0	308	10.6380835619339-66.1155592451291i	36.5170783	-83.86353925	4.10815E-09
0	309	-18.929878342894-41.6657316087072i	33.21054131	-87.17007625	1.91864E-09
0	310	-7.94510032627389-4.96314347028024i	19.43283809	-100.9477795	8.03937E-11
0	311	29.809210564883-0.823290850542833i	29.49032099	-90.89029656	8.14649E-10
0	312	47.879341951728-33.7204371363449i	35.35230714	-85.02831041	3.14173E-09
0	313	24.3866568521928-62.6469557450104i	36.55075986	-83.8298577	4.14013E-09
0	314	-11.2926862128846-51.7725853939797i	34.48385559	-85.89676196	2.57231E-09
0	315	-14.8787722663276-14.4291589652431i	26.3304253	-94.05019226	3.93533E-10
0	316	18.3750404414467+3.42116424592668i	25.43256367	-94.94805389	3.20033E-10
0	317	47.9267272598984-20.3706878311388i	34.33279454	-86.04782302	2.48438E-09
0	318	37.830926217352-57.0798819063948i	36.69641483	-83.68420273	4.28134E-09
0	319	-0.19107630353462-62.280994625302i	35.88715193	-84.49346653	3.55348E-09
0	320	-20.0362433453982-29.9863572528909i	31.14154658	-89.23907097	1.19159E-09
0	321	1.2671906569635+0.52944808078972i	2.75561821	-117.6249993	1.72783E-12
0	322	36.8061353289634-7.08670355201296i	31.4764942	-88.90412335	1.28703E-09
0	323	43.035535806491-42.2505677848394i	35.60763523	-84.77298233	3.33198E-09
0	324	12.941001396939-61.1284937308308i	35.91527859	-84.46533896	3.57656E-09
0	325	-16.0754620342672-40.5583507435159i	32.79530132	-87.58531623	1.74369E-09
0	326	-8.54162774869515-5.9376223656448i	20.34286516	-100.0377524	9.91345E-11
0	327	25.8025663198434+0.55421417928055i	28.23526121	-92.14535634	6.10189E-10
0	328	44.578835607676-28.2292363179037i	34.44694559	-85.93367197	2.55054E-09
0	329	25.0876308524831-56.1313222934837i	35.77504962	-84.60556793	3.46293E-09
0	330	-8.11476519171061-48.5325763774213i	33.84041496	-86.54020259	2.21809E-09
0	331	-13.8370662071416-14.8039999086253i	26.13443075	-94.2461868	3.76168E-10
0	332	15.0489126070486+3.57388271577015i	23.78838166	-96.5922359	2.19168E-10
0	333	43.1086665539534-15.873582318933i	33.24349909	-87.13711846	1.93325E-09
0	334	36.034606365122-49.215431964664i	35.7061963	-84.67442126	3.40846E-09
0	335	2.56601071837114-55.7199295050854i	34.92941185	-85.45120571	2.85023E-09
0	336	-16.5964049571311-27.6894288460197i	30.17928202	-90.20133553	9.54895E-10
0	337	1.24115108937623+0.591687125698122i	2.765880946	-117.6147366	1.73191E-12
0	338	33.4116405684004-4.74681436592823i	30.56474142	-89.81587613	1.04331E-09
0	339	40.2996456364904-35.854345396984i	34.63844277	-85.74217478	2.66552E-09
0	340	14.0869759316782-53.4468798003553i	34.85012899	-85.53048856	2.79867E-09

Resampling Filter Frequency Response  
(in Fin/32 steps)

0	341	-12.0789894676105-35.4643614621274i	31.47250451	-88.90811304	1.28585E-09
0	342	-5.29438364868809-4.07975497438358i	16.50063578	-103.8799818	4.09262E-11
0	343	26.53272914722513+1.87566722536161i	28.49877001	-91.88184754	6.48359E-10
0	344	44.53578811017725-25.2292123354944i	34.18292933	-86.19768822	2.40011E-09
0	345	26.6334428439505-52.5098048718673i	35.39906224	-84.98155532	3.17574E-09
0	346	-5.49505868027977-46.92075465656506i	33.48646105	-86.8941565	2.04449E-09
0	347	-13.1425091106651-15.5224126638854i	26.16654909	-94.21406847	3.7896E-10
0	348	12.1944235056517-3.53631728516451i	22.07390643	-99.30671112	1.47682E-10
0	349	38.91759794614-12.1977748520856i	32.20959986	-88.17074769	1.52379E-09
0	350	34.400568029182-44.4568572026i	34.74948758	-85.63111997	2.73456E-09
0	351	4.7343112102616-49.6287092631967i	33.95400223	-86.42661532	2.27687E-09
0	352	-13.3668563283-25.0076292695434i	29.05285417	-91.32776339	7.36586E-10
0	353	2.06793360192889+1.11350389521645i	7.416431773	-112.9641858	5.05337E-12
0	354	31.64125629431319-2.91782762732309i	30.03403594	-90.34658162	9.23298E-10
0	355	38.8617310241275-31.2988886992364i	33.96173981	-86.41887774	2.28093E-09
0	356	15.3353262701105-48.4071893187697i	34.11355044	-86.26706711	2.36207E-09
0	357	-9.4427506855867-32.9392605860471i	30.6972744	-89.68334316	1.07564E-09
0	358	-4.66246843469029-3.97223915986845i	15.74231528	-104.6383023	3.43692E-11
0	359	23.8300139333375-2.86495799435676i	27.6048095	-92.77580806	5.27739E-10
0	360	40.9845306530432-20.6298790768708i	33.23318872	-87.14742884	1.92867E-09
0	361	25.8492775398389-45.3056882133558i	34.34695108	-86.03366648	2.49249E-09
0	362	-2.75173740678228-40.7074781812635i	32.21328372	-88.16733384	1.52499E-09
0	363	-9.56413854845736-12.4906557402452i	23.9356299	-96.44505456	2.26722E-10
0	364	13.739946810916+4.72685495515705i	23.24548945	-97.13512811	1.93414E-10
0	365	38.5172111010615-10.0256915197391i	31.99779864	-88.38281892	1.45117E-09
0	366	34.465368985279-38.4987320062362i	34.26514291	-86.11547465	2.44598E-09
0	367	6.65797214496869-45.853191775855i	33.31800434	-87.06261322	1.9667E-09
0	368	-11.0363955111089-23.334497775908i	28.23670343	-92.14391413	6.10392E-10
0	369	2.36766422705329+1.4290150245813i	8.835432133	-111.5451854	7.00618E-12
0	370	29.5997763987338-1.2721360600375i	29.43378306	-90.9468345	8.04112E-10
0	371	36.9337250133491-26.8685622235754i	33.19318401	-87.18743354	1.91098E-09
0	372	15.8681093214259-42.6894387569417i	33.16847505	-87.21214251	1.90014E-09
0	373	-6.70358795325441-28.6177500197805i	29.36470365	-91.0159139	7.91423E-10
0	374	-2.03071676056173-1.90978571467743i	8.904820526	-111.475797	7.11902E-12
0	375	24.8610299039564+2.23527037666081i	28.03462802	-92.34589853	5.82641E-10
0	376	41.3034179153284-18.3085459813202i	33.0988028	-87.28181475	1.8699E-09
0	377	27.1169876383494-42.5331419208495i	34.05585247	-86.32476508	2.3309E-09
0	378	-0.724812675356848-39.370919366212i	31.9049828	-88.47563476	1.42048E-09
0	379	-9.02743572255719-13.0718987811057i	24.02036237	-96.36025519	2.31193E-10
0	380	11.1105943523327+4.44321777180018i	21.55905079	-98.82156676	1.31173E-10
0	381	33.9762995006082+7.08399637137944i	30.80632494	-89.57229261	1.1035E-09
0	382	31.334762695162-31.78115570996i	33.00071245	-87.37890511	1.82814E-09
0	383	7.41109124150229-86.4826455612i	31.72788231	-85.6553525	1.36376E-09
0	384	-7.1279717341253-17.2084460327372i	25.40252617	-94.97809139	3.17827E-10
0	385	6.90840364940089+4.6467817961144i	18.40849128	-101.9721263	6.3502E-11
0	386	33.0653597415434-0.202889052601549i	30.38762855	-89.992989	1.00162E-09
0	387	39.467604586897-25.8491719949394i	33.4750009	-86.90561666	2.0391E-09
0	388	18.0757860872335-42.1676168137385i	33.23219491	-87.14842265	1.92823E-09
0	389	-5.32852539678895-29.1155744172034i	29.42558566	-90.95503189	8.02596E-10
0	390	-2.65008390351048-2.7494892288157i	11.63836027	-108.7422573	1.3359E-11
0	391	22.2801941212634+4.9314324638213i	27.16609326	-93.21452429	4.77032E-10
0	392	38.6602608892178-14.912908248112i	32.34772977	-88.03288778	1.57294E-09
0	393	26.5490613759737-37.4521704277591i	33.23771237	-87.14290519	1.93068E-09
0	394	1.07045678454802-34.880518716728i	30.85574709	-89.52487047	1.11561E-09
0	395	-6.46817303621589-10.4254283227513i	21.77613882	-98.60447874	1.37896E-10
0	396	12.9623060260067+5.93717277407161i	23.08076274	-97.29985481	1.86215E-10
0	397	35.3032814576298-5.56928740761956i	31.06306051	-89.31755704	1.17016E-09
0	398	33.1823062878918-30.4476257953992i	33.07094369	-87.30967387	1.85794E-09
0	399	9.4045279085117-38.937445256857i	31.86240576	-88.51821179	1.40663E-09
0	400	-6.86558020509491-19.1880112477806i	26.18378628	-94.19683127	3.90467E-10
0	401	3.87334176242994-2.89112769858949i	13.68488787	-106.6956297	2.14011E-11
0	402	27.7480980649754-1.5339013619619i	28.87791546	-91.5027021	7.07505E-10
0	403	35.0633976452864-20.5799288189081i	32.18266371	-88.19795385	1.51427E-09
0	404	17.1328934409447-35.1033375101373i	31.83492015	-88.5456974	1.39775E-09
0	405	-3.09690698212136-33.888439558426i	27.43740458	-92.94321298	5.07784E-10
0	406	0.438576136935609+0.502168433514726i	-3.521065806	-123.9016834	4.07222E-13
0	407	24.5474710452795+6.71219039454104i	28.11328189	-92.26733567	5.93289E-10
0	408	40.4007997533067-13.3466214475133i	32.57764208	-87.80297548	1.65845E-09
0	409	28.6321673849457-36.4575657128539i	33.32227343	-87.05834413	1.96864E-09
0	410	2.85044699455788-35.658841503278i	31.07100712	-89.30961043	1.1723E-09
0	411	-7.04444524010276-12.7064725286201i	23.24444314	-97.13617442	1.93367E-11
0	412	8.97529212187256+4.6566979633748i	20.9623827	-100.2843793	9.36617E-11
0	413	29.6603216957128-3.19718293786121i	29.49368888	-90.88692897	8.15281E-10
0	414	29.2840136792716-24.3349990437419i	31.6129181	-88.76769945	1.3281E-09
0	415	9.280445482419+10.8682014922733i	30.16449035	-90.21612721	9.51453E-10
0	416	-4.19501596104374-13.8291143030056i	23.19819011	-97.18242745	1.91319E-10
0	417	7.01408916565512+5.79241749702622i	19.17765626	-101.2029613	7.58061E-11
0	418	30.228286007919-3.16461959426027i	29.65561077	-90.72500679	8.46251E-10
0	419	37.4684831336272-19.5860980690477i	32.5224665	-87.85815106	1.63751E-09
0	420	19.7040516100227-35.7989890210681i	32.22685893	-88.15375863	1.52976E-09
0	421	-2.21804797216542-26.7154404337096i	28.56508059	-91.81553696	6.58334E-10
0	422	-3.12178213934948-3.94989191430041i	14.03941657	-106.341201	2.32209E-11
0	423	16.1393658960851+5.27686299059405i	24.59881419	-95.78180337	2.64131E-10
0	424	30.6308012258243-8.47668431343786i	30.0436444	-90.33697315	9.25343E-10
0	425	22.5938164742058-26.03613808508i	30.74843272	-89.63218484	1.08838E-09
0	426	3.12638006906967-24.1284606368381i	27.72290062	-92.65771694	5.42286E-10
0	427	-2.23024504773741-4.53417302873417i	14.07097049	-106.3096471	2.33903E-11
0	428	14.322042947449+8.34713533685084i	24.39009747	-95.99052009	2.51738E-10
0	429	32.9543478699706-1.92312946360795i	30.37301957	-90.00759798	9.98252E-10
0	430	30.7919245672701-23.131050973635i	31.71196243	-88.66865512	1.35873E-09
0	431	10.387705665337-29.3149202130789i	29.8554726	-90.52514495	8.96106E-10
0	432	-3.20692420784311-12.802359723814i	22.41008608	-97.97053147	1.59589E-10
0	433	6.81692327740632+6.216699855911i	19.3002038	-101.0804138	7.79756E-11
0	434	28.3646552908341+4.38553635284359i	29.15814723	-91.22247033	7.54663E-10
0	435	35.2331747771414-16.2689368512193i	31.77840807	-88.60220949	1.37968E-09
0	436	19.063546951511-30.9381793657996i	31.20767927	-89.17293828	1.20978E-09
0	437	-0.754754947294586-22.3562239210905i	26.99291613	-93.38770142	4.58384E-10
0	438	-1.06878894384884-1.49795475291766i	5.297098156	-115.0835194	3.10204E-12
0	439	16.9474665762337+6.47769889564518i	25.17429755	-95.20632	3.01556E-10
0	440	30.0081669821329-6.73855923669305i	29.75844429	-90.62217326	8.66528E-10
0	441	21.9769338353056-22.9417436003905i	30.04024241	-90.34037515	9.24618E-10
0	442	3.71279011025467-20.6445105597724i	26.43433554	-93.94628202	4.03062E-10
0	443	-0.880370357609422-2.03647251756114i	6.921656335	-113.4589612	4.50925E-12
0	444	15.0435903733938+9.78692907978936i	25.07982085	-95.30079671	2.95067E-10
0	445	32.5158596263826-0.299280674717409i	30.2422727	-90.13834485	9.68647E-10
0	446	30.1731066959728-20.4299290911998i	31.23132131	-89.14929624	1.21638E-09
0	447	10.7607036475968-26.2057493266007i	29.0463463	-91.33589293	7.35194E-10
0	448	-2.1325759347747-10.7210910089212i	20.77330087	-99.60731669	1.09463E-10
0	449	6.9360411310579+6.97873425241934i	19.85286879	-100.5213508	8.8988E-11
0	450	26.3787339160633+5.41552611938147i	28.6043715	-91.776324606	6.84317E-10
0	451	32.0500187825913-12.9312592586707i	30.77157492	-89.60904263	1.0942E-09
0	452	17.0857738244658-24.9035780857789i	29.60048107	-90.78013649	8.35577E-10
0	453	0.23649531275377-15.4158881550752i	23.76039299	-96.62022456	2.1776E-10
0	454	2.52331067602913+3.93116772403349i	13.38878161	-106.9918359	1.99902E-11

Resampling Filter Frequency Response  
(in Fin/32 steps)

0	455	21.1930221912938+9.31653115713991i	27.29117746	-93.0894401	4.90971E-10
0	456	33.1732430741344-5.75610370951708i	30.54458606	-89.8360315	1.03848E-09
0	457	23.6802129053163-22.4073359459891i	30.26468376	-90.1159338	9.73658E-10
0	458	4.56268242530668-19.7508615842547i	26.13751577	-94.24310179	3.76435E-10
0	459	-0.290156191323575-0.773244575496771i	-1.66074705	-122.0413646	6.24976E-13
0	460	15.5517916048472+11.2408233542558i	25.66100688	-94.71961067	3.37377E-09
0	461	33.0421993057802+1.31853777606051i	30.38828906	-89.9923285	1.00177E-09
0	462	30.9610841089908-18.8165399106176i	31.18149242	-89.19912514	1.20251E-09
0	463	11.79474089726772-14.12638134442i	28.87049326	-91.51012343	7.06237E-09
0	464	-1.57542609224132-10.620660191313i	20.61755424	-99.76306331	1.05607E-10
0	465	5.94970201377211+6.60509624190763i	18.97771376	-101.4029038	7.23952E-11
0	466	23.5152714246868+6.04384788824433i	27.70480927	-92.67580828	5.40032E-10
0	467	28.4025966823627-9.86868947378997i	29.56215763	-90.81845992	8.28236E-10
0	468	14.6443386662176-19.2473866820824i	27.67095394	-92.70966361	5.35838E-10
0	469	0.550546137169704-8.53341815283515i	18.6405	-101.74011776	6.69866E-11
0	470	5.77129202541198+10.0435552140544i	21.27690419	-99.10371337	1.22922E-10
0	471	26.3314459921875+13.1530399014576i	29.3769213	-91.00369626	7.93652E-10
0	472	38.6946206834019-4.77252626306759i	31.81858067	-88.56203688	1.3925E-09
0	473	28.126739139719-24.1121883067224i	31.37515859	-89.00545896	1.25734E-09
0	474	6.62557687083577-23.382648481508i	27.71327649	-92.66734107	5.41085E-10
0	475	-1.55084331115603-4.84369576331888i	14.12737729	-106.2532403	2.36961E-11
0	476	11.02238655686148-8.82171692337687i	22.99541498	-97.38520257	1.82591E-10
0	477	26.7691179954443+2.38797639428435i	28.58710465	-91.7935129	6.61681E-10
0	478	25.4812912085809-13.8217190432542i	29.24453031	-91.13608725	7.69824E-10
0	479	9.32950945067597-17.5838343672304i	25.97948426	-94.40113329	3.62983E-10
0	480	-0.282922613403287-2.8725615003862i	9.207312667	-111.1733049	7.63255E-12
0	481	10.1929198117114-12.4981023886854i	24.15137309	-96.22924446	2.38273E-10
0	482	29.1799717375688+9.04753646452841i	29.70034605	-90.6802715	8.55013E-10
0	483	33.964874471046-9.96269809421659i	30.97905335	-89.40156421	1.14774E-09
0	484	18.6492451965916-22.1638596471138i	29.23778018	-91.14283737	7.68628E-10
0	485	1.51919679006335-13.3257416521644i	22.54990966	-97.8307079	1.64789E-10
0	486	2.73882515481485+5.3589789465027i	15.58946271	-104.7911548	3.31806E-11
0	487	19.8578741795224-11.169011819422i	27.15235963	-93.22825793	4.75526E-10
0	488	31.1965273070916-2.30119410228167i	29.90569179	-90.47492577	8.96412E-10
0	489	22.7201829510379-17.619115049416i	29.17316379	-91.20745377	7.57277E-10
0	490	5.17499031578609-15.348091041461i	24.18871837	-96.19189919	2.40331E-10
0	491	0.510272891684508+1.91218422767361i	5.929343837	-114.4512737	3.58817E-12
0	492	14.6065013102489+12.9156412557095i	25.79970611	-94.58091144	3.48264E-10
0	493	30.0680818929723+4.177723377564688i	29.64515569	-90.73546186	8.44216E-10
0	494	27.8327595971205-13.3735081403283i	29.79326722	-90.58735034	8.73504E-10
0	495	10.716855358272-18.0065032544495i	26.4249636	-93.95565396	4.02193E-10
0	496	-0.19876391760772+4.045933248621313i	12.15084147	-108.22977161	1.50322E-11
0	497	8.29542172846586-11.257098530534387i	22.91227369	-97.46834387	1.79129E-10
0	498	25.3172821348853+9.23428908793721i	28.61078293	-91.76983462	6.65298E-10
0	499	29.5725603546307-7.1189378463127i	29.66242947	-90.71818808	8.47581E-10
0	500	15.8219239151222-17.032005801089i	27.32733421	-93.05328335	4.95076E-10
0	501	1.28882725141011-7.85629242079449i	18.01968723	-102.3609303	5.8064E-11
0	502	4.16162633465137+9.23510502054705i	20.11174021	-100.2688773	9.39966E-11
0	503	20.9606885000831+13.1832906981581i	27.87566461	-92.50495295	5.617E-10
0	504	30.8658124040139-0.757713165598853i	29.79217067	-90.58844689	8.73284E-10
0	505	21.5895479264436-15.1061989619047i	28.4155081	-91.96510946	6.36047E-10
0	506	4.65506744687445-11.8507356352929i	22.09808702	-98.28253053	1.48507E-11
0	507	1.1135588203324+5.1815321889153i	14.48525286	-105.8953647	2.57314E-11
0	508	15.4230282136123+15.0490606505191i	26.66839862	-93.71221893	4.25381E-10
0	509	29.8957976758247+5.6611141745816i	29.66520428	-90.71541327	8.48123E-10
0	510	26.6122187376022-11.2149385536904i	29.21158257	-91.16903499	7.64006E-10
0	511	9.6380592083442-14.5206162782852i	24.82502678	-95.5559077	2.78254E-10
0	512	0	24.82502678	-95.5559077	2.78254E-10
0	513	9.6380592082779-14.5206162789657i	24.82502678	-95.5559077	2.78254E-10
0	514	26.6122187353298+11.2149385548546i	29.21158257	-91.16903499	7.64006E-10
0	515	29.895797677018-5.66111417423235i	29.66520428	-90.71541327	8.48123E-10
0	516	15.4230282150093-15.0490606506937i	26.66839862	-93.71221893	4.25381E-10
0	517	1.11355882138014-5.18153218983207i	14.48525286	-105.8953647	2.57314E-11
0	518	4.65506744699087+11.8507356339833i	22.09808702	-98.28253053	1.48507E-11
0	519	21.5895479259198+15.1061989606824i	28.4155081	-91.96510946	6.36047E-10
0	520	30.8658124029425+0.757713167484946i	29.79217067	-90.58844689	8.73284E-10
0	521	20.9606884889607-13.1832906982163i	27.87566461	-92.50495295	5.617E-10
0	522	4.16162633372005-9.23510501984856i	20.11174021	-100.2688773	9.39966E-11
0	523	1.28882725100266+7.85629242174036i	18.01968723	-102.3609303	5.8064E-11
0	524	15.8219239152968+17.0320058010402i	27.32733421	-93.05328335	4.95076E-10
0	525	29.5725603551837+7.11893778515514i	29.66242947	-90.71818808	8.47581E-10
0	526	25.3172821355402-9.23428908776259i	28.61078293	-91.76983462	6.65298E-10
0	527	8.29542172898073-11.2570985307102i	22.91227369	-97.46834387	1.79129E-10
0	528	-0.198763917403994+4.045933248584933i	12.15084147	-108.22977161	1.50322E-11
0	529	10.716855358272-18.0065032544495i	26.4249636	-93.95565396	4.02193E-10
0	530	27.8327595969822+13.3735081401392i	29.79326722	-90.58735034	8.73504E-10
0	531	30.0680818928349-4.177723377570509i	29.64515569	-90.73546186	8.44216E-10
0	532	14.6065013101361-12.9156412556895i	25.79970611	-94.58091144	3.48264E-10
0	533	0.510272891646309-1.91218422761358i	5.929343837	-114.4512737	3.58817E-12
0	534	5.17499031579337+15.3480910415065i	24.18871837	-96.19189919	2.40331E-10
0	535	22.7201829510664+17.6191150494765i	29.17316379	-91.20745377	7.57277E-10
0	536	31.1965273071323+2.30119410228588i	29.90569179	-90.47492577	8.96412E-10
0	537	19.8578741795641-11.1690118194399i	27.15235963	-93.22825793	4.75526E-10
0	538	2.73882515486292-5.3589789465353i	15.58946271	-104.7911548	3.31806E-11
0	539	1.51919679007227+13.3257416521218i	22.54990966	-97.8307079	1.64789E-10
0	540	18.6492451965731-22.1638596470718i	29.23778018	-91.14283737	7.68628E-10
0	541	33.9648744709845+9.96269809420136i	30.97905335	-89.40156421	1.14774E-09
0	542	29.1799717375078-9.04753646452698i	29.70034605	-90.6802715	8.55013E-10
0	543	10.1929198116683-12.4981023886859i	24.15137309	-96.22924446	2.38273E-10
0	544	-0.282922613402661+2.87256150038504i	9.207312667	-111.1733049	7.63255E-12
0	545	9.32950945068114+17.5838343672815i	25.97948426	-94.40113329	3.62983E-10
0	546	25.4812912086294+13.8217190432576i	29.24453031	-91.13608725	7.69824E-10
0	547	26.7691179954799-2.38797639427332i	28.58710465	-91.7935129	6.61681E-10
0	548	11.0223865568791-8.82171692342456i	22.99541498	-97.38520257	1.82591E-10
0	549	-1.5508433111857+4.84369576327023i	14.12737729	-106.2532403	2.36961E-11
0	550	6.62557687080474+23.3826484814555i	27.71327649	-92.66734107	5.41085E-10
0	551	28.1267391396823+24.1121883066705i	31.37515859	-89.00545896	1.25734E-09
0	552	38.6946206833565+4.77252626306327i	31.81858067	-88.56203688	1.3925E-09
0	553	26.3314459921854-13.1530399014419i	29.3769213	-91.00369626	7.93652E-10
0	554	5.77129202540175-10.0435552140266i	21.27690419	-99.10371337	1.22922E-10
0	555	0.550546137167061+8.53341815285229i	18.6405	-101.74011776	6.69866E-11
0	556	14.6443386662493+19.2473866820809i	27.67095394	-92.70966361	5.35838E-10
0	557	28.4025966823844+9.86868947380131i	29.56215763	-90.81845992	8.28236E-10
0	558	23.5152714247115-6.04384788825962i	27.70480927	-92.67580828	5.40032E-10
0	559	5.94970201380286-6.60509624193179i	18.97771376	-101.4029038	7.23952E-11
0	560	-1.57542609224276+10.62066019059i	20.61755424	-99.76306331	1.05607E-10
0	561	11.7947406978365+25.1371263813071i	28.87049326	-91.51012343	7.06237E-09
0	562	30.961084108957+18.8165399106226i	31.18149242	-89.19912514	1.20251E-09
0	563	33.0421993057103+1.31853777604783i	30.38828906	-89.9923285	1.00177E-09
0	564	15.5517916048092-11.2408233541971i	25.66100688	-94.71961067	3.37377E-09
0	565	-0.290156191338127+0.77324457629784i	-1.660747049	-122.0413646	6.24976E-13
0	566	4.5626824253246+19.7508615843546i	26.13751577	-94.24310179	3.76435E-10
0	567	23.6802129054022-22.4073359460681i	30.26468376	-90.1159338	9.73658E-10
0	568	33.1732430742446+5.75610370954627i	30.54458606	-89.8360315	1.03848E-09

Resampling Filter Frequency Response  
(in Fin/32 steps)

0	21.1930221913798-9.31653115718942i	27.29117746	-93.0894401	4.90971E-10
0	2.52331067607892-3.9311677241212i	13.38878161	-106.9918359	1.99902E-11
0	0.23649531274242+15.4158881550027i	23.76039299	-96.62022456	2.1776E-10
0	17.0857738244033+24.9035780856913i	29.60048107	-90.78013649	8.35577E-10
0	32.0500187824993+12.9312592586727i	30.77157492	-89.69004263	1.0942E-09
0	26.3787339159776-5.41552611933315i	28.6043715	-91.77624606	6.64317E-10
0	6.93604411303309-6.97873425232396i	19.85926679	-100.5213508	8.8688E-11
0	-2.13255759347716+10.7210910089208i	20.77330087	-99.60731669	1.09463E-10
0	10.7807036476281+26.2057493267102i	29.04463463	-91.33592924	7.25194E-10
0	30.1731068960763+20.4299230912525i	31.23132131	-89.14929624	1.21638E-09
0	32.5158586265083+0.299280674725566i	30.2422727	-90.13834485	9.68847E-10
0	15.0435903734178-9.7869290798296i	25.07982085	-95.30079671	2.95067E-10
0	-0.880370357552835+2.03647251745708i	6.921656335	-113.4589612	4.50925E-12
0	3.71279011022232+20.6445105596297i	26.43433554	-93.94628202	4.03062E-10
0	21.9769338352329+22.9417436002898i	30.04024241	-90.34037515	9.24618E-10
0	30.0081669820268+6.73855923664661i	29.75844429	-90.62217326	8.66528E-10
0	16.9474665761469-6.47769898561468i	25.17429755	-95.20632	3.01556E-10
0	-1.0687889437522+1.49795475298785i	5.297098157	-115.0835194	3.10204E-12
0	-0.754754947303226+22.3562239212037i	26.99291613	-93.38770142	4.58384E-10
0	19.0635469515296+0.9381793658655i	31.20767927	-89.17293828	1.20978E-09
0	35.2331747771889+16.2689368512414i	31.77840807	-88.60220949	1.37968E-09
0	28.3646552908845+4.38553635285052i	29.15814723	-91.22247033	7.54663E-10
0	6.81692327744327-6.21669968565043i	19.3002038	-101.0804138	7.79756E-11
0	-3.20682420780837+12.8023598728159i	22.41008608	-97.97053147	1.59568E-10
0	10.3877058653202+29.3149202130755i	29.8554726	-90.52514485	8.86106E-10
0	30.79192456725727+23.1310509736283i	31.71198243	-88.68685512	1.35873E-09
0	32.9543478699047+1.92312946362412i	30.37301957	-90.00759798	9.98252E-10
0	14.3220429474177-8.3471353684186i	24.39009747	-95.99052009	2.51738E-10
0	-2.23024504777484+4.53417302876413i	14.07097049	-106.3096471	2.33903E-11
0	3.12638006907513+24.1284606368947i	27.72290062	-92.65771694	5.42286E-10
0	22.5938164742374+26.0306138085486i	30.74843272	-89.63218484	1.08838E-09
0	30.6308012258598+8.47668431345959i	30.0436444	-90.33697315	9.25343E-10
0	16.1393658961123-5.27686299058982i	24.59881419	-95.78180337	2.64131E-10
0	-3.12178213932864+3.9498819142583i	14.03941657	-106.341201	2.32209E-11
0	-2.21804797215956+26.7154404336796i	28.56508059	-91.81553696	6.58334E-10
0	19.7040516100239+35.7998900210315i	32.22685893	-88.15375863	1.52976E-09
0	37.468483135816+19.5860980690222i	32.5224665	-87.85815106	1.63751E-09
0	30.2282860079032-3.16461959427281i	29.65561077	-90.72500679	8.46251E-10
0	7.01408916559919-5.79241749697628i	19.17765626	-101.2029613	7.58061E-11
0	-4.1950159610434+13.8291143030051i	23.19819011	-97.18242745	1.91319E-10
0	9.2604458249896+30.8652014932069i	30.16449035	-90.21612721	9.51453E-10
0	29.28401367929179-24.3349990437752i	31.6125181	-88.76769945	1.32819E-09
0	29.6603216957489+3.19718293787525i	29.49368858	-90.69682897	8.15281E-10
0	8.9752921219161-4.65669779638937i	20.09623827	-100.2843793	9.36617E-11
0	-7.04444524004631+12.7064725285568i	23.24444314	-97.13617442	1.93367E-10
0	2.85044699455012+35.6588415032265i	31.07100712	-89.30961043	1.1723E-09
0	28.6321673849087+36.4575657128297i	33.32227343	-87.05834413	1.96864E-09
0	40.4007997532526+13.3466214475009i	32.57764208	-87.80297548	1.65845E-09
0	24.5474710452388-6.71219039451708i	28.11328189	-92.26733567	5.93289E-10
0	0.438576136924112-0.502168433468668i	-3.521065806	-123.9016834	4.07222E-13
0	-3.096906982093+23.3388843955892i	27.43740458	-92.94321298	5.07784E-10
0	17.1328934409475+35.1033375101677i	31.83492015	-88.5456974	1.39775E-09
0	35.0633976453353+20.5799288189128i	32.18266371	-88.19795385	1.51427E-09
0	27.7480980650223-1.53390136195212i	28.87791546	-91.5027021	7.07505E-10
0	3.87334176249529-2.89112769861971i	13.68498787	-106.6956297	2.14011E-11
0	-6.86558020507091+19.1880112476967i	26.18378628	-94.19683127	3.80467E-10
0	9.40452790082771+38.0397446234717i	31.86240576	-88.51821179	1.40663E-09
0	33.1823628779230+44.76257953004i	33.07094369	-87.30967387	1.85794E-09
0	35.3032814574773+5.66528740755698i	31.0630805	-89.31755704	1.17016E-09
0	12.9623060258931+5.93711277401529i	23.08079374	-97.29885481	1.86215E-10
0	-6.46817303632456+10.4254283229393i	21.77613882	-98.60447874	1.37896E-10
0	1.07045678455459+34.8805187168688i	30.85574709	-89.52487047	1.11561E-09
0	26.549061376063+37.4521704279596i	33.23771237	-87.14290519	1.93068E-09
0	38.660260893885+14.9129082482403i	32.34772977	-88.03288778	1.57294E-09
0	22.2801941214987+4.93143246386222i	27.16609326	-93.21452429	4.77032E-10
0	-2.65008390334473+2.74948922869984i	11.63836027	-108.7422573	1.3359E-11
0	-5.3285259637813+29.115574417029i	29.42558566	-90.95503189	8.02596E-10
0	18.0757860871722+42.1676168135175i	33.23219491	-87.14842265	1.92823E-09
0	39.4676045868071+25.8491719947448i	33.4750009	-86.90561666	2.0391E-09
0	33.0653597413192-0.202889052608469i	30.38762855	-89.992989	1.00162E-09
0	6.90840364920899+4.6467817950142i	18.40849128	-101.9721263	6.3502E-11
0	-7.12797173412514+17.2084460327371i	25.40252617	-94.97809139	3.17827E-10
0	7.41109124153375+37.8648256457696i	31.72798231	-88.65263525	1.36376E-09
0	31.3934762658671+31.7811155711541i	33.00071245	-87.37990511	1.82814E-09
0	33.9628950087104+3.9396637131969i	30.80832494	-88.57229261	1.1035E-09
0	11.110594352432+4.44321777193559i	21.55905079	-98.2156676	1.31773E-10
0	-9.02743572248123+13.0718987808777i	24.02036237	-96.36025519	2.31193E-10
0	-0.724812675390622+39.3709193659592i	31.9049828	-88.47563476	1.42048E-09
0	27.1169876381804+42.5331419206149i	34.05585247	-86.32476508	2.3309E-09
0	41.3034179151284+18.3085459812634i	33.0988028	-87.28181475	1.8699E-09
0	24.861029901773-4.23527037658528i	28.03462802	-92.34589853	5.82641E-10
0	-2.03071676073909+1.90978571482519i	8.904820527	-111.475797	7.11902E-12
0	-6.70358795332784+28.6177500199289i	29.36470365	-91.0159139	7.91423E-10
0	15.8681093214673+42.6894387511057i	33.16847505	-87.21214251	1.90014E-09
0	36.9337250134491+26.868562236451i	33.19318401	-87.18743354	1.91098E-09
0	29.5997763988571+1.27213606004094i	29.43378306	-90.9468345	8.04112E-10
0	2.36764422713398-1.42901502464289i	8.835432134	-111.5451854	7.00618E-12
0	-11.0363955110691+23.3344977758142i	28.23670343	-92.14391413	6.10392E-10
0	6.65797214493719+45.8531911775372i	33.31800434	-87.06261322	1.9667E-09
0	34.4653686989097+38.4987920062011i	34.26514291	-86.11547465	2.44598E-09
0	38.517211010105+10.0256915197265i	31.99779864	-88.38281892	1.45117E-09
0	13.739546810412+4.7268549515186i	23.24548945	-97.13512811	1.93414E-10
0	-9.56413854847284+12.4908557402835i	23.93582399	-96.44505456	2.26722E-10
0	-2.75173740679954+40.7074781813254i	32.21328372	-88.16733384	1.52498E-09
0	25.8492755398789+45.3056882134035i	34.34695108	-86.03366648	2.49249E-09
0	40.9845306530787+20.6298790769031i	33.23318872	-87.14742884	1.92867E-09
0	23.830013933908-2.86495799435477i	27.6048095	-92.77580806	5.27739E-10
0	-4.66246843462422+3.97223915984323i	15.74231528	-104.6383023	3.43692E-11
0	-9.4427506855971+32.9329605859879i	30.6972744	-89.68334316	1.07564E-09
0	15.3353262701+48.4071893187248i	34.11355044	-86.26706711	2.36207E-09
0	38.8617310240958+31.2988866992119i	33.96173981	-86.41887774	2.28093E-09
0	31.6125629430792+2.91782762730386i	30.03403594	-90.34658162	9.23298E-10
0	2.06793360187078-1.11350389516329i	7.416431773	-112.9641858	5.05337E-12
0	-13.3668563282996+25.0076292695429i	29.05285417	-91.32776339	7.36586E-10
0	4.73431121027577+49.628709263237i	33.95400223	-86.42661532	2.27687E-09
0	34.4005966029508+42.4456855720401i	34.74949758	-85.63111997	2.73456E-09
0	38.9175679462132+12.1977748520971i	32.20986986	-88.17074769	1.52379E-09
0	12.1944235057064+3.53631728517746i	22.07390643	-98.30671112	1.47682E-10
0	-13.1425091106258+15.5224126638443i	26.16654909	-94.21406847	3.7936E-10
0	-5.4950586803013+46.9207546565027i	33.48646105	-86.8941565	2.04449E-09
0	26.6334428439287+52.5098048718146i	35.39906224	-84.98155532	3.17574E-09
0	44.5357881101263+25.2292123354747i	34.18292933	-86.19768822	2.40011E-09
0	26.537279147207-1.8756672233743i	28.49877001	-91.88184754	6.48359E-10
0	-5.2943836487824+4.0795497441556i	16.50063578	-103.8799818	4.09262E-11

Resampling Filter Frequency Response  
(in Fin/32 steps)

0	-12.0789894676315+35.4643614621454i	31.47250451	-88.90811304	1.28585E-09
0	14.0869759316947+53.4468798003885i	34.85012899	-85.53048856	2.79867E-09
0	40.2996456365302+35.8554345397319i	34.63844277	-85.74217478	2.66552E-09
0	33.4116405684516+4.74681436593164i	30.56474142	-89.81587613	1.04331E-09
0	1.24115108943292-0.591687125711466i	2.765880946	-117.6147366	1.73191E-12
0	-16.5964049570959+27.6894288459562i	30.17928202	-90.20133553	9.54699E-10
0	2.56601071836377+55.7199295050429i	34.92941185	-85.45120571	2.85023E-09
0	36.0346806364769+49.2154139646207i	35.7061963	-84.67442126	3.40846E-09
0	43.108665933897+15.8735823119471i	33.24349909	-87.13711846	1.93325E-09
0	15.0489126069471-3.57398271573831i	23.79838166	-86.5022350	2.19168E-10
0	-13.8370662072082+14.8039999087012i	26.13443075	-94.2461868	3.76168E-10
0	-8.11476519117864+48.5325763774726i	33.84041496	-86.54020259	2.21809E-09
0	25.0876308525388+56.131222935956i	35.77504962	-84.60556793	3.46293E-09
0	44.5788356077757+28.2292363179495i	34.44694559	-85.93367197	2.55054E-09
0	25.8025663199757-0.554214179281729i	28.23526121	-92.14535634	6.10189E-10
0	-8.54162774858003+5.93762236558454i	20.34286516	-100.0377524	9.91345E-11
0	-16.0754620341825+40.5583507433701i	32.79530132	-87.58531623	1.74369E-09
0	12.9410013969243+61.128493730668i	35.91527859	-84.46533896	3.57656E-09
0	43.0355536805169+42.2505677847175i	35.60763523	-84.77298233	3.33198E-09
0	36.8061353288605+7.08670355198957i	31.4764942	-88.90412335	1.28703E-09
0	1.26719065684599-0.529448080727526i	2.755618209	-117.6249993	1.72783E-12
0	-20.036234353979+29.9863572528907i	31.14154658	-89.23907097	1.1915E-09
0	-0.191076330552951+62.2809964626634i	35.88715193	-84.49346563	3.55348E-09
0	37.6309262174414+57.073681906498i	36.69641483	-83.66420273	4.28134E-09
0	47.9267272587492+20.37068783119i	34.33279454	-86.04782302	2.48438E-09
0	18.3750404416016+3.42116424596018i	25.43268367	-94.94805389	3.20033E-10
0	-14.8787722662388+14.429158965112i	26.3304253	-94.05019226	3.93533E-10
0	-11.2926862128681+51.7725853938457i	34.48385559	-85.89676196	2.57231E-09
0	24.3966568521676+62.6469557449091i	36.55075986	-83.8298577	4.14013E-09
0	47.8793419516473+33.7204371362683i	35.35230714	-85.02831041	3.14173E-09
0	29.8092105563491+0.823290850532992i	29.49032099	-90.89029656	8.146649E-10
0	-7.94510032635956+4.96314347037907i	19.43283809	-100.9477795	8.03937E-11
0	-18.9298783429459+41.6657316087787i	33.21054131	-87.17007625	1.91864E-09
0	10.6380835619145+66.115592452297i	36.5170783	-83.86353925	4.10815E-09
0	44.5049483286195+48.2044869545988i	36.33908888	-84.04152867	3.94318E-09
0	40.7024529345799+9.93042051285126i	32.44352077	-87.93709679	1.60802E-09
0	3.39132954070737-1.22518654729607i	11.1401678	-109.2404498	1.19112E-11
0	-21.7359179613223+29.3074926871926i	31.24301786	-89.13759969	1.21966E-09
0	-3.38272585733927+64.799839347973i	36.24329754	-84.13732002	3.85716E-09
0	36.6039312714785+61.9285526173685i	37.13909801	-83.24151954	4.74076E-09
0	49.6114392584196+24.0256835981159i	34.82663297	-85.55398459	2.78357E-09
0	19.806597933891+2.6300581963916i	26.01557803	-94.36593953	3.66013E-10
0	-16.2779898655216+4.3048874510417i	26.71790553	-93.66331202	4.30198E-10
0	-14.5382134603936+53.8168213503153i	34.92426498	-85.45632528	2.84885E-09
0	22.3443346112092+66.9469857496415i	36.97331206	-83.40730549	4.5632E-09
0	48.0290527151883+37.4822406248569i	35.69573834	-84.68487921	3.40026E-09
0	29.7126849746685+2.28341373086028i	29.48441148	-90.89620607	8.13541E-10
0	-10.8837830644844+6.077678038080586i	21.91436773	-98.46624983	1.42356E-10
0	-23.6529328155703+45.9326997829216i	34.26393179	-86.11668576	2.4453E-09
0	8.20985374860636+74.0307335858323i	37.44132633	-82.93929122	5.08242E-09
0	46.8465265844554+56.0231600224787i	37.26987179	-83.11074576	4.88568E-09
0	45.584810294747+13.5231215591194i	33.54271701	-86.83790055	2.07114E-09
0	6.15433982561471-1.88753656593906i	16.17406049	-104.2065571	3.79616E-11
0	-23.1751021727208+28.2389437033223i	31.25326161	-89.12735594	1.22254E-09
0	-6.75312880157844+66.4742988637981i	36.49766714	-83.88295041	4.08983E-09
0	34.4962298120432+65.5015098866666i	37.38815243	-82.99246513	5.02058E-09
0	48.7003512265482+26.6100390139998i	34.88525107	-85.49536648	2.82139E-09
0	17.172863457996-1.47883858132126i	24.72994178	-95.65167578	2.72165E-10
0	-21.9205062513306+174.1801515710897i	28.93772467	-91.44289288	7.17316E-10
0	-19.9811669390761+61.753465965265i	36.24644396	-84.13487359	3.95925E-09
0	21.8248163092084+77.9338030123633i	38.16241317	-82.21820438	6.00039E-09
0	53.3154907760584+45.9902586245892i	36.95275464	-83.42786291	4.54165E-09
0	36.3347308224536+4.59467413415315i	31.27533596	-89.10528159	1.22877E-11
0	-8.27095390517724+4.09983499601969i	19.305279	-101.0753386	7.80668E-11
0	-25.9253307947348+44.7981270583714i	34.27971897	-86.10089858	2.4542E-09
0	4.69316016936305+76.3906054341363i	37.6771603	-82.70345725	5.36604E-09
0	45.2315038007683+59.8288089430288i	37.50151503	-82.87910252	5.15335E-09
0	44.7579783831173+15.705544318447i	33.52171082	-86.85890674	2.06115E-09
0	2.8302667546665+0.718800334323281i	9.316017173	-111.0646004	7.826E-12
0	-29.2822798667534+32.30801713488859i	32.79041485	-87.5902027	1.74173E-09
0	-11.4402740327112+75.5268737194814i	37.66054892	-82.72006864	5.34556E-09
0	35.523874905524+76.3169946216557i	38.50415205	-81.87646551	6.49163E-09
0	54.6702371153292+33.4558394234948i	36.13643969	-84.24417787	3.76342E-09
0	-27.763451774118+17.9411194819314i	27.11651717	-99.26410038	4.71818E-10
0	-21.247756882251+15.2588368276413i	28.3524602	-90.02815736	6.2688E-10
0	-23.316230638811+61.6089126581309i	36.37493407	-84.00588348	3.97587E-09
0	18.387692078666+80.7248120662039i	38.35982275	-82.0207948	6.27943E-09
0	51.2700871084409+48.8131807857767i	36.99954601	-83.38107154	4.59085E-09
0	32.9855308579568+5.82783361857566i	30.49996298	-89.88065457	1.02786E-09
0	-15.4425588231829+6.73214921480277i	24.53003907	-95.85057848	2.59981E-10
0	-34.4171589150898+53.2597261818546i	36.04349114	-84.33712642	3.68373E-09
0	1.10982285487238+90.4319622546469i	39.12709315	-81.25352441	7.49286E-09
0	49.882417558049+73.1870388877095i	38.94570706	-81.43491049	7.18636E-09
0	53.8114616673294+21.9035796410158i	35.28330419	-85.09731336	3.09221E-09
0	8.80182570599359-1.77888131188227i	19.06531963	-101.3152979	7.38704E-11
0	-30+30i	32.55272505	-87.8278925	1.64896E-09
0	-15.6130099473403+77.2524796320095i	37.9321129	-82.44850465	5.69049E-09
0	33.0917288989769+81.2978668474098i	38.86739142	-81.51322613	7.05793E-09
0	54.5745894113729+37.1966470882745i	36.39683308	-83.98378447	3.99596E-09
0	20.714196485019+0.254214196846377i	26.32601588	-94.05460188	3.93133E-10
0	-27.763451774118+17.9411194819314i	30.38498157	-89.99563599	1.00101E-09
0	-30.804136677355+70.6601528457209i	37.73914524	-82.64447232	5.44318E-09
0	16.7492685344813+94.8006385750049i	39.668737	-80.71088055	8.49009E-09
0	57.7516342581953+60.6584383855389i	38.46008942	-81.92052814	6.4261E-09
0	42.2436229070949+9.62235414901568i	32.73490504	-87.64571251	1.71961E-09
0	-10.9767494943357+4.157006894658i	21.39153826	-98.9890793	1.2621E-10
0	-36.7800448715884+51.2157892243791i	35.99427672	-84.38634084	3.64222E-09
0	-3.4341585938974+93.2379919192229i	39.39774592	-80.98287164	7.97467E-09
0	48.0685531753631+78.548894457887i	39.28422207	-81.09639548	7.76892E-09
0	53.9988584255617+25.135275864068i	35.49941843	-84.88119912	3.24998E-09
0	6.39589794502574-0.968805162657752i	16.21654926	-104.1640683	3.83348E-11
0	-36.5621500086492+33.1380011535798i	33.86484328	-86.51577427	2.2306E-09
0	-21.863497153105+86.1615872543434i	38.97727771	-81.40333984	7.23879E-09
0	32.5995094626032+92.9027425122312i	39.86487227	-80.51574529	8.88026E-09
0	59.2647486335594+44.80560654932008i	37.41923682	-82.96138073	5.05664E-09
0	23.9861055429202+1.47361883718511i	27.61555607	-92.76506148	5.29047E-10
0	-30.9742573687424+17.925255387546i	31.07453988	-89.30607767	1.17325E-09
0	-37.8248866524912+76.3074353661764i	38.60550414	-81.77511341	6.6449E-09
0	13.472194780003+106.538256371474i	40.81900872	-79.76100884	1.05643E-08
0	61.838252080349+71.6888787609699i	39.52472217	-80.85589838	8.21127E-09
0	49.0597332004645+13.738835061213i	34.14239942	-86.23821813	2.37782E-09
0	-8.93227867362121+2.89015930024592i	19.45166262	-100.9289549	8.07429E-11
0	-41.1902792529045+51.7905252612536i	36.41364791	-83.96696965	4.01147E-09
0	-8.60071809604107+99.8749690259938i	40.02122059	-80.35939696	9.20577E-09

Resampling Filter Frequency Response  
(in Fin/32 steps)

0	47.9097857903175+87.6820734441032i	39.99282543	-80.38779213	9.14578E-09
0	57.5263158372681+30.2961109567573i	36.26045743	-84.12016012	3.87243E-09
0	7.0277276969549-0.713947362095816i	16.98089035	-103.3997272	4.57117E-11
0	-42.1154491040802+34.5632558459425i	34.72512139	-85.65549617	2.71926E-09
0	-28.9455841760245+94.377488907123i	39.88779939	-80.49281816	8.92726E-09
0	31.3801771785723+105.77878912407i	40.85428579	-79.52633176	1.11524E-08
0	65.111696634559+54.4463544385037i	38.5757	-81.80491756	6.59946E-09
0	30.1672517234372+3.34548521470789i	29.64380022	-90.73681734	8.43953E-10
0	-31.3919970936731+16.1652279378935i	30.95786848	-89.42274907	1.14216E-09
0	-43.98236707867+78.76354613545i	39.1052984	-81.27531915	7.45535E-09
0	8.87613273994362+115.499759125073i	41.27719509	-79.10342247	1.2293E-08
0	63.5885798424027+81.481234910714i	40.28680997	-80.09380759	9.78632E-09
0	53.7844290437617+17.9511783237091i	35.07182276	-85.3087948	2.94524E-09
0	-8.3003192932355+2.24226943411913i	18.6878001	-101.6928175	6.77202E-11
0	-46.5599502933295+52.9820501918715i	36.96786679	-83.41275077	4.55748E-09
0	-14.5328262426218+107.003540228884i	40.66734326	-79.71327429	1.06825E-08
0	47.0179537642981+97.0889485275828i	40.65839239	-79.7222516	1.06605E-08
0	59.9791382546271+35.4516965374677i	36.86128385	-83.5193337	4.44699E-09
0	5.7286634479015-0.299051636049391i	15.17288513	-105.2077324	3.01458E-11
0	-50.3762642567052+37.3615839051262i	35.94796373	-84.43265383	3.60358E-09
0	-38.2863102212979+105.976918490482i	41.03699368	-79.34362387	1.16316E-08
0	30.1243187720946+123.472481897418i	42.08251267	-78.29810488	1.47975E-09
0	73.9831989081518+68.3052274302814i	40.0600017	-80.32061586	9.28835E-09
0	41.3850573519572+6.65891211315623i	32.44787601	-87.93274154	1.60963E-09
0	27.1132168446276+12.3182739517084i	29.47859202	-90.92033554	8.1245E-10
0	-47.882599804577+76.65143302276i	39.12125595	-81.25936161	7.48279E-09
0	3.2949522110594+119.303167602652i	41.53635099	-78.84426656	1.30489E-08
0	61.4015695422629+87.1835300532895i	40.56803268	-79.82258488	1.0417E-08
0	52.3437356663322+20.3759098087948i	34.9900547	-85.39056285	2.89031E-09
0	-14.9468297014969+3.26021689688648i	23.69284026	-96.6877773	2.14399E-10
0	-58.2811006965494+60.0971426529043i	38.45615984	-81.92445771	6.42028E-08
0	-23.0221192878662+123.651582488502i	41.99199117	-78.38862638	1.44923E-08
0	49.6041022944994+116.705056859302i	42.06303255	-78.317585	1.47313E-08
0	71.6659934943271+47.2522119372027i	38.67395953	-81.70665802	6.75047E-09
0	16.0858778364363+4.9351009948989E-002i	24.1289362	-96.25168135	2.37046E-10
0	-49.3578945850111+32.9798907743772i	35.47020489	-84.91041267	3.22819E-09
0	-44.4196815957414+106.314873064128i	41.23065947	-79.14995809	1.2162E-08
0	25.0608682429627+130.158359418088i	42.44753115	-77.93308641	1.6095E-08
0	73.7152346902641+75.0848118391601i	40.44212929	-79.93848827	1.01426E-08
0	41.2390780581179+8.73037979814053i	32.49658366	-87.8840339	1.62778E-09
0	-33.0542726403989+13.1011911273399i	31.01624769	-89.36236987	1.15815E-09
0	-58.0046906227987+85.4432445292886i	40.138976	-82.24074155	9.46076E-09
0	-2.8654098156812+133.404979241156i	42.50544304	-77.87517361	1.63111E-08
0	64.0716721106943+101.180226890575i	41.56628416	-78.81433339	1.31391E-08
0	59.067305314758+26.399854673657i	36.21788733	-84.16273022	3.83466E-09
0	-13.3294093018304+2.22870975954062i	22.61596611	-97.76465145	1.67315E-10
0	-64.6631351448647+60.43961683900025i	38.93998442	-81.44063313	7.1769E-09
0	-31.1087763930033+130.99289889555i	42.58323432	-77.79738324	1.66059E-08
0	46.8766977078633+127.305348495893i	42.64914031	-77.73147725	1.68598E-08
0	72.9626346713237+53.4219681744291i	39.12618043	-81.25443713	7.49128E-09
0	13.4430824737928+0.61907999566483i	22.57917794	-97.80143961	1.65904E-10
0	-59.8320878545822+35.861973354069i	36.87168523	-83.50893233	4.45766E-09
0	-56.4666574687236+118.447149495289i	42.35988016	-78.02073739	1.57734E-08
0	21.0826129357829+148.395246022243i	43.51518517	-76.86543238	2.05805E-08
0	79.028098858418+88.82347773919839i	41.50297366	-78.8776439	1.2949E-08
0	46.4789563277717+12.2504427118023i	33.63680922	-86.74380834	2.1165E-09
0	-37.0651265127726+12.6242022781481i	31.85597136	-88.5246462	1.40454E-09
0	-69.2718270603758+89.895037263646i	41.09908702	-79.28153054	1.1799E-08
0	-10.84950862836+149.256335939634i	43.50029905	-76.88031851	2.05101E-08
0	66.4804603425739+117.354424542169i	42.59873895	-77.7818817	1.68652E-08
0	65.6523604705636+33.2994646320038i	37.33926106	-83.0413565	4.96437E-09
0	-13.8528557143181+1.62235785843183i	22.8899475	-97.49067006	1.7821E-10
0	-75.0984251500656+63.5842995610457i	39.85998118	-80.52063637	8.87026E-09
0	-42.050788533935+145.005406126487i	43.57836484	-76.80225272	2.08821E-08
0	45.8551931219914+146.303126238173i	43.71202814	-76.66858941	2.15348E-08
0	80.6711430532253+65.3808605579784i	40.32719074	-80.05342681	9.87773E-09
0	18.4174760401394+1.75692788663261i	25.3439449	-95.03667266	3.13569E-10
0	-65.550750283334+35.0399176207345i	37.42353009	-82.95708746	5.06164E-09
0	-67.9604566133332+126.21242086483i	43.12772272	-77.25289483	1.88239E-08
0	15.1509916480113+164.150093254895i	44.34166447	-76.03895308	2.48946E-08
0	82.114292570952+101.95581005418i	42.33953657	-78.04108098	1.56997E-08
0	49.854830978967+15.7939370156114i	34.36949807	-86.01111949	2.50546E-09
0	-43.1845883522872+12.37979523570306i	33.04957316	-87.33104439	1.84882E-09
0	-83.0016085518919+97.424239660891i	42.14333769	-76.23727987	1.50062E-08
0	-20.1078180182894+187.250269697117i	44.52965685	-75.85096071	2.59958E-08
0	68.3093415389353+135.703353967484i	43.63285705	-76.7477005	2.1458E-08
0	72.2301850571466+41.211118825433i	38.39827099	-81.98234656	6.33527E-09
0	-15.2463486120498+1.0306201628484i	23.68311666	-96.6975009	2.13919E-10
0	-87.638686584685+67.1038535843669i	40.85759504	-79.52302251	1.11609E-08
0	-55.2099406958186+160.483469517012i	44.59438954	-75.78622802	2.63862E-08
0	43.450925903295+166.931975276897i	44.73549261	-75.64512495	2.72576E-08
0	87.0059222594284+77.8905267765642i	41.34717715	-79.0334404	1.24927E-08
0	20.2351282990344+2.93817981056728i	26.21273227	-94.16788529	3.83011E-10
0	-76.4239701717887+36.1458459250685i	38.54132617	-81.83929138	6.54743E-09
0	-84.1117929359673+139.360664360005i	44.23183404	-76.14878351	2.42729E-08
0	8.04466615941658+187.181487110645i	45.45327232	-74.92734524	3.21563E-08
0	87.73674795881+120.603584803297i	43.47192612	-76.90869143	2.03766E-08
0	56.3909402687152+20.961100238729i	35.58625287	-84.79436469	3.31561E-09
0	-48.8214253237524+11.4362141827682i	34.00420302	-86.37641453	2.30334E-09
0	-99.0784903651774+105.352317513198i	43.20471533	-77.17590222	1.91606E-08
0	-32.0617428861566+188.202376839437i	45.61674775	-74.76389691	3.33897E-08
0	69.9071303022153+157.70795994282i	44.73615519	-75.64446236	2.72618E-08
0	79.78322862702+50.8657632358846i	39.51953577	-80.86108179	8.20147E-09
0	-17.218294599072+0.316986201534231i	24.72127436	-95.6593432	2.71885E-10
0	-103.266760973146+71.3158862827305i	41.97279994	-78.40781761	1.44228E-08
0	-71.7625420184756+179.447538923176i	45.72305509	-74.65756247	3.42171E-08
0	40.1485382669125+192.56056718314i	45.8761531	-74.50446445	3.54449E-08
0	94.9384275986771+93.7804485448001i	42.50617039	-77.87444717	1.63138E-08
0	23.3275515060794+4.56578393549195i	27.52064622	-92.85997134	5.1761E-10
0	-88.6220282658747+36.7084460327372i	39.63852679	-80.74209077	8.42929E-09
0	-103.357428465014+153.662676595554i	45.35230506	-75.0283125	3.14173E-08
0	-1.30830400281112+213.217726404338i	46.57662967	-73.80398788	4.16487E-08
0	92.8732873940747+141.802847080567i	44.58388454	-75.79673302	6.23225E-08
0	62.290520673107+26.7017728775789i	36.621053	-83.75956456	4.20769E-09
0	-57.3151916863665+10.4894188295696i	35.30847339	-85.07214416	3.31101E-09
0	-119.516204256831+115.195202726339i	44.40185565	-75.9787619	2.5242E-08
0	-47.163773507477+213.085758944537i	46.77802037	-73.60181519	4.36333E-08
0	70.5576439901229+182.91313925564i	45.84736427	-74.53235238	3.32107E-08
0	86.0331864543808+80.9571289556727i	40.46149372	-79.91912484	1.0188E-08
0	-24.066142645653-0.738571747833969i	27.63221812	-92.74839943	5.3108E-10
0	-126.825408842684+78.6853704595804i	43.4783861	-76.90223145	2.04069E-08
0	-94.696903370307+206.746592608866i	47.13588455	-73.24473301	4.73725E-08
0	36.0024561837657+228.216780855964i	47.27371051	-73.10690704	4.89E-08
0	106.486028228189+116.050165217873i	43.9457276	-76.43488996	2.27254E-08



Resampling Filter Frequency Response  
(in Fin/32 steps)

0	29.4581942946925+7.28291982229741i	29.64177636	-90.7388412	8.4356E-10
0	-101.852766692253+36.4435026542215i	40.68264361	-79.69797395	1.07202E-08
0	-126.294199712064+169.200619653413i	46.49131049	-73.88930707	4.08385E-08
0	-13.4039580580002+242.476049551705i	47.706628	-72.67398956	5.40258E-08
0	96.7993886430618+164.923576057109i	45.63123863	-74.74937893	3.35013E-08
0	65.0961801088021+31.7715065382156i	37.19906205	-83.18155551	4.80667E-09
0	-73.4928199236941+9.17598399793031i	37.40070095	-82.9799166	5.0351E-09
0	-149.726191899902+130.753556856136i	45.96790159	-74.41271597	3.62017E-08
0	-68.1277650946039+249.152303148398i	48.2427939	-72.13613816	6.11204E-08
0	72.4021025647801+219.164292547081i	47.26523879	-73.11537877	4.88049E-08
0	97.3414400354885+76.4476823970505i	41.85247542	-78.52814214	1.40341E-08
0	-27.9217743640353+2.23197205692119i	28.94655228	-91.43409476	7.18771E-10
0	-151.880196078497+84.2021042363222i	44.79396608	-75.58665147	2.76271E-08
0	-121.252286590076+233.70094865178i	48.40847593	-71.97214163	6.35018E-08
0	28.4081162905365+263.542588685329i	48.46718759	-71.91342996	6.43661E-08
0	112.848159379202+135.798116819321i	44.93818103	-75.44243653	2.85599E-08
0	25.084238596056+7.52525941772144i	28.36228228	-92.01833527	6.28299E-10
0	-129.97306037125+39.4268968219158i	42.65936968	-77.72124787	1.68996E-08
0	-161.804146766561+195.930060872884i	48.10025208	-72.28036547	5.91512E-08
0	-29.8877046302542+285.485840169655i	49.15903176	-71.22158579	7.54817E-08
0	102.553830369298+196.18693064506i	46.90254572	-73.47807184	4.48945E-08
0	67.8041432541744+37.3189973879039i	37.77434755	-82.60627001	5.48748E-09
0	-96.8259312474761+8.03896761459911i	39.74966748	-80.63095008	8.64779E-09
0	-190.530551663311+150.581670013835i	47.70680693	-72.67381063	5.4028E-08
0	95.8220527053426+293.380744343345i	49.78971696	-70.5909006	8.7279E-08
0	71.9474447530735+269.98465879411i	48.6194317	-71.76118586	6.66625E-08
0	103.226432462428+89.5975441647599i	42.7145629	-77.66605465	1.17157E-08
0	-46.8898224951949-6.0756220091779i	33.49388008	-86.88673747	2.04798E-09
0	-197.588227912878+97.1886524849119i	46.85623003	-73.52438752	4.44182E-08
0	-162.253935128636+278.395848818551i	50.16325314	-70.21736442	9.51182E-08
0	18.4282655020177+315.7829379038i	50.00253835	-70.3780792	9.16626E-08
0	121.077342011139+161.17747465359i	46.08931269	-74.29130487	3.7228E-08
0	13.7853913931962+4.88483645838177i	23.32020803	-97.07853726	1.9595E-10
0	-176.59981769686+44.2359515052153i	45.20409048	-75.17652707	3.03632E-08
0	-216.194561115022+237.068189014445i	50.12590132	-70.25471624	9.43036E-08
0	-53.8187977517573+348.087787575138i	50.93637276	-69.4442448	1.13652E-07
0	110.001395816165+238.226900747498i	48.37918852	-72.00142904	6.3075E-08
0	67.3585261285725+41.5051063688283i	37.96563573	-82.41498183	5.73458E-09
0	-136.582754425367+4.61108772134181i	42.71286445	-77.6677531	1.7109E-08
0	-253.070654953947+180.565612862209i	49.85196003	-70.52865752	8.85399E-08
0	-156.257301410289+356.487094973103i	51.63307809	-68.74753947	1.33428E-07
0	70.3367208153244+313.22364159298i	50.13074563	-70.24987193	4.44099E-08
0	105.370907143664+100.930557812059i	43.28212835	-77.0984892	1.95052E-08
0	-85.0417073497665+15.2942356803457i	38.73088313	-81.64973442	6.83953E-09
0	-272.476233542898+117.79191572242i	49.45065781	-70.92995974	8.07243E-08
0	-224.27692124745+344.738385855722i	52.28258374	-68.09803382	1.54952E-07
0	3.5573620365986+386.495669124592i	51.74326054	-68.63735702	1.36856E-07
0	126.996338610301+187.561790243154i	47.10180813	-73.27880942	4.70023E-08
0	-16.0563049684272-6.59310051725539i	24.78961515	-95.59100241	2.75994E-10
0	-257.473304476113+51.2146245304077i	48.38316535	-71.9974522	6.31328E-08
0	-299.970413116782+298.1354415792i	52.52530199	-67.85531556	1.63858E-07
0	-88.305520931344+430.131401572812i	52.85131554	-67.52930201	1.76632E-07
0	112.261723494145+278.239750249186i	49.54339265	-70.8372249	8.24665E-08
0	40.3860516089907+27.7079438576139i	33.79987399	-86.58074357	2.19748E-09
0	-229.539497152556-3.52136799528017i	47.2181705	-73.16244706	4.82787E-08
0	-368.554181074785+236.565001823464i	52.82837699	-67.55224057	1.75702E-07
0	-200.933948020952+457.079737894126i	53.967159	-66.41345856	2.28378E-07
0	65.935508292099+379.985844982991i	51.72440531	-68.65621224	1.36263E-07
0	99.45250862028+535.525852156893i	42.28885048	-78.09176707	1.55176E-08
0	-177.489498230179-40.9973181879054i	45.2082199	-71.7239765	3.03921E-08
0	-413.723752789651+155.231749354616i	52.90622715	-67.47439041	1.7888E-07
0	-324.225207809132+448.568819737262i	54.86197997	-65.51863759	2.80631E-07
0	-18.7381863638318+469.573871680126i	53.4409886	-66.93962896	2.02319E-07
0	110.292459250337+181.477260094402i	46.54161351	-73.83900405	4.13142E-08
0	-121.46632727934-6.9939384497432i	42.55329869	-77.82731887	1.64918E-08
0	-442.959028690678+65.7067649598579i	53.02179527	-67.35882228	1.83704E-07
0	-454.79773883979+409.670188522485i	55.7364967	-64.64412086	3.43232E-07
0	-139.114042716713+541.261880502893i	54.94595819	-65.43465936	2.86111E-07
0	97.1518138319721+279.607924898439i	49.42598622	-70.95463133	8.0267E-08
0	-71.962993359636-54.7529108028354i	39.12570291	-81.25491465	7.49046E-09
0	-462.094371169341-29.8127041826333i	53.31265302	-67.06796453	1.96428E-07
0	-590.300446972747+339.202223675219i	56.660617	-63.72000055	4.2462E-07
0	-291.207443000123+582.976491771601i	56.28044797	-64.10016959	3.8903E-07
0	45.4309445153401+368.344366989348i	51.39064945	-68.9899881	1.26184E-07
0	-44.829712056378+52.236201673701i	36.76174504	-83.61887251	4.34623E-09
0	-488.20982907412+138.336462800642i	54.10753462	-66.27908293	2.3588E-07
0	-734.384648976914+235.13357903687i	57.74231195	-62.6383056	5.44715E-07
0	-463.331726334664+578.914675687327i	57.40219341	-62.97842414	5.03683E-07
0	-36.3011345317294+406.934237699532i	52.22490804	-68.15570952	1.52908E-07
0	-53.903606252572-99.3750114452543i	41.06564552	-79.31497204	1.17085E-08
0	-544.69761946417-289.00190280282i	55.80032212	-64.58029543	3.48314E-07
0	-875.836518420867+86.2623678107267i	58.89038694	-61.49023061	7.0954E-07
0	-591.254742685117+482.202177022318i	57.64998428	-62.73063328	5.33257E-07
0	-84.8957498576976+273.804431869647i	49.14745818	-71.23315937	7.52808E-08
0	-96.2840876468081-328.252138080899i	50.68260434	-69.69801321	1.07201E-07
0	-607.972086374853-511.563450229712i	58.00254516	-62.3780724	5.78353E-07
0	-772.727475366957-88.0945414386594i	57.81660896	-62.5640086	5.54114E-07
0	-235.463397185436+120.33879619441i	48.4462898	-71.93432775	6.40571E-08
0	124.730040335444-221.762989191285i	48.11148587	-72.26913168	5.93044E-08
0	31.9805162519569+433.549281026884i	52.76433614	-67.61628141	1.7313E-07
0	2667.66914300479+3440.0099442015i	72.77612127	-47.60449629	1.736E-05
0	13493.9858597706+4549.83523448844i	83.07044294	-37.31017462	0.000185773
0	32145.3952277702-8578.10849984124i	90.4411246	-29.93949295	0.00101403
0	42790.5930228041-48392.552928676i	96.20435275	-24.17626481	0.003822729
0	15249.1636665907-109751.895180912i	100.8912818	-19.48933579	0.01124777
0	-75079.6080279937-156254.638572073i	104.7788002	-15.60181733	0.027530764
0	-216675.01172855-128968.095726048i	108.033262	-12.3473556	0.058245777
0	-344904.896321908+16944.0910263615i	110.764456	-9.616161519	0.109240542
0	-361674.275543612+266519.888403565i	113.0500967	-7.330520812	0.184904687
0	-191552.49513749+525171.836948794i	114.9484699	-5.43214768	0.286276192
0	156522.067630999+650203.503890584i	116.505367	-3.874980507	0.409733949
0	566100.32598818+525880.298002486i	117.7598864	-2.620731176	0.546923875
0	854018.632335017+140102.026141587i	118.7446813	-1.635936208	0.866129954
0	859788.070225236-387447.318333629i	119.4907317	-0.889885821	0.814725704
0	534091.652113063-849175.597054075i	120.0275038	-0.353113721	0.921910217
0	-25651.4673309125-1044924.93375345i	120.3843183	0.003700714	1.000852484
0	-613668.283512284-877045.301203101i	120.5910777	0.210460097	1.049653624
0	-1006399.94649943-395322.263054621i	120.6785929	0.297975366	1.071019891
0	-1057102.38675063+27181.004523966i	120.6794299	0.297812365	1.079979694
0	-750237.466316022786880.787941519i	120.6221867	0.241568193	1.057198184
0	-197992.614765905+1045579.89300967i	120.5401458	0.159528275	1.037415727
0	409436.829008565+971563.276942431i	120.4593827	0.078765144	1.018301807
0	872589.657569958+579181.394385602i	120.401527	0.020909474	1.004826193