

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.01
Actual Amplitude:	0.01
Actual Power:	0.0001
Distortion 2H-22H:	0.139261%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	7.4307	end:	7.4502	delta:	0.0195
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	22.4256	end:	22.4543	delta:	0.0287
P4 start:	22.5457	end:	22.5743	delta:	0.0286
P5 start:	37.4543	end:	37.5457	delta:	0.0914
P6 start:	52.4308	end:	52.5498	delta:	0.119
P7 start:	67.4307	end:	67.5693	delta:	0.1385
P8 start:	82.4256	end:	82.5743	delta:	0.1487

H3: 7.5891e-06	H19: 0.00035469	H19f: 1.86679e-05
H5: -0.000339992	H21: 3.61386e-07	H21f: 1.72088e-08
H7: -0.000937795	H23: 1.0016	H23f: 0.043548
H9: -1.85511e-05	H25: -0.998132	H25f: -0.0399253
H11: 0.000340129	H27: -8.43233e-07	H27f: -3.12309e-08
H13: -0.000375368	H29: 0.00111193	H29f: 3.83425e-05
H15: -1.92257e-05	H31: 0.00272057	H31f: 8.77603e-05
H17: 0.000749088	H33: 1.86278e-05	H33f: 5.64478e-07

c2sd = 0.0
c2ed = 0.0
c3sd = 0.0
c3ed = 0.0
c4sd = 0.0
c4ed = -0.0001
c5sd = 0.0
c5ed = 0.0
varx = 5.908%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.02
Actual Amplitude:	0.0199999
Actual Power:	0.000399997
Distortion 2H-22H:	0.271965%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	7.3611	end:	7.4	delta:	0.0389
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	22.351	end:	22.4086	delta:	0.0575
P4 start:	22.5914	end:	22.6486	delta:	0.0571
P5 start:	37.4086	end:	37.5915	delta:	0.1829
P6 start:	52.3618	end:	52.6	delta:	0.2381
P7 start:	67.3611	end:	67.6382	delta:	0.277
P8 start:	82.351	end:	82.6486	delta:	0.2975

H3: -1.26485e-06	H19: 0.00066984	H19f: 3.52547e-05
H5: -0.000715655	H21: -1.80693e-07	H21f: -8.60445e-09
H7: -0.00175255	H23: 1.00296	H23f: 0.0436071
H9: 7.58913e-06	H25: -0.995912	H25f: -0.0398365
H11: 0.000651975	H27: 3.79456e-06	H27f: 1.40539e-07
H13: -0.000735853	H29: 0.00243899	H29f: 8.4103e-05
H15: 6.57724e-06	H31: 0.00527787	H31f: 0.000170254
H17: 0.0015484	H33: -4.48448e-06	H33f: -1.35893e-07

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0001
c3ed = 0.0
c4sd = 0.0
c4ed = -0.0003
c5sd = 0.0
c5ed = 0.0
varx = 5.9064%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.03
 Actual Amplitude: 0.0299998
 Actual Power: 0.000899987
 Distortion 2H-22H: 0.273921%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 7.2864	end: 7.3448	delta: 0.0585
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 22.2699	end: 22.3678	delta: 0.0979
P4 start: 22.6421	end: 22.7161	delta: 0.074
P5 start: 37.3579	end: 37.6322	delta: 0.2743
P6 start: 52.2978	end: 52.6552	delta: 0.3573
P7 start: 67.2864	end: 67.7022	delta: 0.4158
P8 start: 82.2699	end: 82.7161	delta: 0.4462

H3: 1.68648e-06	H19: 0.0012112	H19f: 6.37475e-05
H5: -0.00119504	H21: 7.22777e-07	H21f: 3.44179e-08
H7: -0.00112825	H23: 1.00576	H23f: 0.0437287
H9: 3.09188e-06	H25: -0.991709	H25f: -0.0396684
H11: 0.00111837	H27: -2.24864e-06	H27f: -8.32829e-08
H13: -0.00104224	H29: 0.00437065	H29f: 0.000150712
H15: 8.43239e-07	H31: 0.0037297	H31f: 0.000120313
H17: 0.00099909	H33: -7.66581e-07	H33f: -2.32297e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0057
 c3ed = 0.0056
 c4sd = 0.0043
 c4ed = -0.0083
 c5sd = -0.0043
 c5ed = -0.0056
 varx = 5.904%.

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Desired Amplitude: 0.04
 Actual Amplitude: 0.04
 Actual Power: 0.0016
 Distortion 2H-22H: 0.239049%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 7.21	end: 7.288	delta: 0.0779
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 22.1936	end: 22.3335	delta: 0.14
P4 start: 22.6991	end: 22.7884	delta: 0.0893
P5 start: 37.3009	end: 37.6665	delta: 0.3656
P6 start: 52.2354	end: 52.7121	delta: 0.4767
P7 start: 67.21	end: 67.7646	delta: 0.5546
P8 start: 82.1936	end: 82.7884	delta: 0.5949

H3: 4.42697e-06	H19: 0.00132	H19f: 6.94739e-05
H5: -0.00138918	H21: 4.8787e-06	H21f: 2.32319e-07
H7: -0.000679224	H23: 1.00852	H23f: 0.0438489
H9: 1.68647e-06	H25: -0.98696	H25f: -0.0394784
H11: 0.00073183	H27: 1.26485e-06	H27f: 4.68463e-08
H13: -0.000844433	H29: 0.00546919	H29f: 0.000188593
H15: 3.79455e-07	H31: 0.00277773	H31f: 8.96042e-05
H17: 0.000576325	H33: 2.75967e-06	H33f: 8.36264e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0073
 c3ed = 0.0172
 c4sd = 0.0154
 c4ed = -0.0107
 c5sd = -0.0154
 c5ed = -0.0172
 varx = 5.9002%.

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Desired Amplitude: 0.05
 Actual Amplitude: 0.05
 Actual Power: 0.0025
 Distortion 2H-22H: 0.14485%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 7.1356	end: 7.2333	delta: 0.0977
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 22.1195	end: 22.3064	delta: 0.187
P4 start: 22.7632	end: 22.8633	delta: 0.1001
P5 start: 37.2368	end: 37.6936	delta: 0.4568
P6 start: 52.171	end: 52.7667	delta: 0.5957
P7 start: 67.1356	end: 67.829	delta: 0.6934
P8 start: 82.1195	end: 82.8633	delta: 0.7439

H3: -5.0594e-07	H19: 0.000900945	H19f: 4.74182e-05
H5: -0.00087821	H21: -4.33663e-07	H21f: -2.06506e-08
H7: -0.000322862	H23: 1.01174	H23f: 0.0439886
H9: 2.5297e-06	H25: -0.981204	H25f: -0.0392482
H11: 0.000368692	H27: -8.99448e-07	H27f: -3.33129e-08
H13: -0.000442619	H29: 0.00476972	H29f: 0.000164473
H15: 1.61901e-06	H31: 0.00221886	H31f: 7.1576e-05
H17: 0.000281243	H33: 3.03564e-06	H33f: 9.1989e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0067
 c3ed = 0.036
 c4sd = 0.0337
 c4ed = -0.0106
 c5sd = -0.0337
 c5ed = -0.036
 varx = 5.8953%.

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Desired Amplitude: 0.06
 Actual Amplitude: 0.0599999
 Actual Power: 0.00359999
 Distortion 2H-22H: 0.124807%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 7.0628	end: 7.1801	delta: 0.1173
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 22.0443	end: 22.2715	delta: 0.2272
P4 start: 22.8197	end: 22.9372	delta: 0.1175
P5 start: 37.1803	end: 37.7285	delta: 0.5482
P6 start: 52.105	end: 52.8199	delta: 0.7148
P7 start: 67.0628	end: 67.895	delta: 0.8322
P8 start: 82.0444	end: 82.9372	delta: 0.8928

H3: 2.52971e-06	H19: 0.000729487	H19f: 3.83941e-05
H5: -0.00076726	H21: 7.22773e-07	H21f: 3.44178e-08
H7: -0.000336812	H23: 1.01369	H23f: 0.0440736
H9: -8.43235e-07	H25: -0.976151	H25f: -0.039046
H11: 0.000350594	H27: -1.9207e-06	H27f: -7.11371e-08
H13: -0.000355618	H29: 0.00528202	H29f: 0.000182139
H15: -2.36106e-06	H31: 0.00277729	H31f: 8.959e-05
H17: 0.000272018	H33: 5.36604e-07	H33f: 1.62607e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0048
 c3ed = 0.0483
 c4sd = 0.0429
 c4ed = -0.0136
 c5sd = -0.0429
 c5ed = -0.0483
 varx = 5.8882%.

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Desired Amplitude: 0.07
 Actual Amplitude: 0.0700001
 Actual Power: 0.00490001
 Distortion 2H-22H: 0.0734328%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 6.9895	end: 7.1266	delta: 0.1371
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.9695	end: 22.2396	delta: 0.2701
P4 start: 22.879	end: 23.0115	delta: 0.1324
P5 start: 37.121	end: 37.7604	delta: 0.6394
P6 start: 52.0395	end: 52.8734	delta: 0.8339
P7 start: 66.9895	end: 67.9605	delta: 0.971
P8 start: 81.9695	end: 83.0115	delta: 1.042

H3: 3.61385e-07	H19: 0.000420481	H19f: 2.21306e-05
H5: -0.000469006	H21: 1.49717e-06	H21f: 7.12937e-08
H7: -0.000186939	H23: 1.01577	H23f: 0.0441639
H9: -3.132e-06	H25: -0.970402	H25f: -0.0388161
H11: 0.000190023	H27: -6.42463e-07	H27f: -2.37949e-08
H13: -0.00020624	H29: 0.00543753	H29f: 0.000187501
H15: -1.22871e-06	H31: 0.00300556	H31f: 9.69535e-05
H17: 0.000169894	H33: -9.85596e-08	H33f: -2.98665e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0044
 c3ed = 0.0626
 c4sd = 0.056
 c4ed = -0.0147
 c5sd = -0.056
 c5ed = -0.0626
 varx = 5.8797%.

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Desired Amplitude:	0.08
Actual Amplitude:	0.08
Actual Power:	0.00639999
Distortion 2H-22H:	0.0517624%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	6.916	end:	7.0729	delta:	0.1569
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	21.8942	end:	22.2043	delta:	0.3101
P4 start:	22.935	end:	23.0853	delta:	0.1504
P5 start:	37.065	end:	37.7957	delta:	0.7307
P6 start:	51.9741	end:	52.9271	delta:	0.953
P7 start:	66.916	end:	68.0259	delta:	1.1099
P8 start:	81.8942	end:	83.0853	delta:	1.1911

H3: -1.89728e-06	H19: 0.00033422	H19f: 1.75905e-05
H5: -0.00032747	H21: -2.25866e-07	H21f: -1.07555e-08
H7: -0.000137824	H23: 1.01714	H23f: 0.0442236
H9: 1.37025e-06	H25: -0.964802	H25f: -0.0385921
H11: 7.48562e-05	H27: 2.00268e-06	H27f: 7.41733e-08
H13: -0.000112669	H29: 0.00629984	H29f: 0.000217236
H15: -1.07512e-06	H31: 0.00358579	H31f: 0.000115671
H17: 0.000108145	H33: 4.02452e-07	H33f: 1.21955e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0082
c3ed = 0.0712
c4sd = 0.068
c4ed = -0.0123
c5sd = -0.068
c5ed = -0.0712
varx = 5.8695%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.09
 Actual Amplitude: 0.09
 Actual Power: 0.00809999
 Distortion 2H-22H: 0.0148414%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 6.8428	end: 7.0196	delta: 0.1768
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.8187	end: 22.1703	delta: 0.3515
P4 start: 22.9921	end: 23.1591	delta: 0.167
P5 start: 37.0079	end: 37.8297	delta: 0.8218
P6 start: 51.9083	end: 52.9804	delta: 1.0721
P7 start: 66.8428	end: 68.0917	delta: 1.2488
P8 start: 81.8187	end: 83.1591	delta: 1.3404

H3: -1.12431e-06	H19: 9.00041e-05	H19f: 4.73706e-06
H5: -0.000103718	H21: 1.20462e-07	H21f: 5.73628e-09
H7: -3.65e-05	H23: 1.01845	H23f: 0.0442805
H9: 9.36926e-07	H25: -0.958708	H25f: -0.0383483
H11: 1.55615e-05	H27: 4.06001e-07	H27f: 1.50371e-08
H13: -3.46374e-05	H29: 0.00699465	H29f: 0.000241195
H15: 8.43234e-07	H31: 0.00410992	H31f: 0.000132578
H17: 1.97912e-05	H33: -2.5297e-06	H33f: -7.66576e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0131
 c3ed = 0.0805
 c4sd = 0.0819
 c4ed = -0.009
 c5sd = -0.0819
 c5ed = -0.0805
 varx = 5.8578%.

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Desired Amplitude: 0.1
 Actual Amplitude: 0.1
 Actual Power: 0.00999999
 Distortion 2H-22H: 0.0238169%

First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 6.7695	end: 6.966	delta: 0.1965
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.7427	end: 22.1311	delta: 0.3884
P4 start: 23.0441	end: 23.2323	delta: 0.1882
P5 start: 36.9559	end: 37.8689	delta: 0.913
P6 start: 51.8428	end: 53.034	delta: 1.1913
P7 start: 66.7695	end: 68.1572	delta: 1.3878
P8 start: 81.7427	end: 83.2323	delta: 1.4896

H3: 0.0	H19: 0.000154179	H19f: 8.11466e-06
H5: -0.000152541	H21: 9.03464e-07	H21f: 4.30221e-08
H7: -5.72435e-05	H23: 1.01882	H23f: 0.0442963
H9: 6.74587e-07	H25: -0.95301	H25f: -0.0381204
H11: 2.532e-05	H27: -1.68647e-06	H27f: -6.24617e-08
H13: -5.11973e-05	H29: 0.00872469	H29f: 0.000300851
H15: 8.09504e-07	H31: 0.00514421	H31f: 0.000165942
H17: 5.60701e-05	H33: -1.81679e-06	H33f: -5.50541e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0188
 c3ed = 0.0846
 c4sd = 0.0907
 c4ed = -0.0062
 c5sd = -0.0907
 c5ed = -0.0846
 varx = 5.8441%.

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Desired Amplitude:	0.11
Actual Amplitude:	0.11
Actual Power:	0.0121
Distortion 2H-22H:	0.00465573%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	6.6962	end:	6.9126	delta:	0.2165
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	21.6669	end:	22.0946	delta:	0.4276
P4 start:	23.0986	end:	23.3058	delta:	0.2072
P5 start:	36.9014	end:	37.9054	delta:	1.004
P6 start:	51.777	end:	53.0874	delta:	1.3103
P7 start:	66.6962	end:	68.223	delta:	1.5268
P8 start:	81.6669	end:	83.3059	delta:	1.6389

H3: 0.0	H19: 2.41109e-05	H19f: 1.26899e-06
H5: -2.95285e-05	H21: 9.85599e-08	H21f: 4.69333e-09
H7: -1.36998e-05	H23: 1.01925	H23f: 0.0443153
H9: -7.66577e-07	H25: -0.946681	H25f: -0.0378672
H11: 1.36729e-05	H27: 5.11051e-07	H27f: 1.89278e-08
H13: -1.53374e-05	H29: 0.010068	H29f: 0.000347171
H15: 2.75968e-07	H31: 0.00604425	H31f: 0.000194976
H17: 1.01865e-05	H33: -8.36266e-07	H33f: -2.53414e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0185
c3ed = 0.0948
c4sd = 0.0984
c4ed = -0.0088
c5sd = -0.0984
c5ed = -0.0948
varx = 5.829%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.12
 Actual Amplitude: 0.12
 Actual Power: 0.0144
 Distortion 2H-22H: 0.00335388%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 6.6227	end: 6.859	delta: 0.2363
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.5909	end: 22.0558	delta: 0.4649
P4 start: 23.1509	end: 23.3792	delta: 0.2283
P5 start: 36.8491	end: 37.9442	delta: 1.095
P6 start: 51.7116	end: 53.141	delta: 1.4295
P7 start: 66.6227	end: 68.2885	delta: 1.6658
P8 start: 81.5909	end: 83.3792	delta: 1.7883

H3: -8.43233e-07	H19: 2.32e-05	H19f: 1.22105e-06
H5: -2.087e-05	H21: -9.3358e-07	H21f: -4.44562e-08
H7: -9.84776e-06	H23: 1.01912	H23f: 0.0443095
H9: 4.21617e-07	H25: -0.940373	H25f: -0.0376149
H11: 3.44959e-06	H27: 2.78735e-06	H27f: 1.03235e-07
H13: -4.86481e-06	H29: 0.0119387	H29f: 0.000411681
H15: 4.21617e-08	H31: 0.00718219	H31f: 0.000231683
H17: 4.09216e-06	H33: 1.28401e-06	H33f: 3.89095e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0187
 c3ed = 0.1026
 c4sd = 0.1041
 c4ed = -0.0113
 c5sd = -0.1041
 c5ed = -0.1026
 varx = 5.8122%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.13
 Actual Amplitude: 0.13
 Actual Power: 0.0169
 Distortion 2H-22H: 0.0136243%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 6.5489	end: 6.8051	delta: 0.2562
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.5146	end: 22.0156	delta: 0.501
P4 start: 23.2015	end: 23.4522	delta: 0.2507
P5 start: 36.7985	end: 37.9844	delta: 1.1859
P6 start: 51.6462	end: 53.1949	delta: 1.5487
P7 start: 66.5489	end: 68.3538	delta: 1.8049
P8 start: 81.5146	end: 83.4522	delta: 1.9376

H3: 1.55674e-06	H19: 8.76587e-05	H19f: 4.61362e-06
H5: -9.85416e-05	H21: 1.27875e-06	H21f: 6.08928e-08
H7: -5.92117e-06	H23: 1.01853	H23f: 0.044284
H9: 3.24321e-07	H25: -0.933979	H25f: -0.0373592
H11: 9.12815e-06	H27: -1.2108e-06	H27f: -4.48443e-08
H13: -2.56413e-05	H29: 0.014208	H29f: 0.000489931
H15: 1.36215e-06	H31: 0.00845989	H31f: 0.0002729
H17: 1.96424e-05	H33: 3.53804e-08	H33f: 1.07213e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0198
 c3ed = 0.1085
 c4sd = 0.1086
 c4ed = -0.0134
 c5sd = -0.1086
 c5ed = -0.1085
 varx = 5.7938%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.14
 Actual Amplitude: 0.14
 Actual Power: 0.0196001
 Distortion 2H-22H: 0.00623388%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 6.4754	end: 6.7517	delta: 0.2762
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.4385	end: 21.9768	delta: 0.5382
P4 start: 23.2535	end: 23.5257	delta: 0.2722
P5 start: 36.7465	end: 38.0232	delta: 1.2767
P6 start: 51.5806	end: 53.2483	delta: 1.6678
P7 start: 66.4754	end: 68.4194	delta: 1.944
P8 start: 81.4385	end: 83.5257	delta: 2.0872

H3: -1.80693e-06	H19: 3.85731e-05	H19f: 2.03016e-06
H5: -4.37999e-05	H21: -4.13012e-07	H21f: -1.96672e-08
H7: -8.983e-06	H23: 1.01783	H23f: 0.0442534
H9: 3.01154e-07	H25: -0.927154	H25f: -0.0370862
H11: 1.03488e-06	H27: 1.88723e-06	H27f: 6.98975e-08
H13: -1.58037e-05	H29: 0.0162486	H29f: 0.000560298
H15: -5.05939e-07	H31: 0.00980029	H31f: 0.000316138
H17: 1.20214e-05	H33: 8.7061e-07	H33f: 2.63821e-08

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0181
 c3ed = 0.1174
 c4sd = 0.1129
 c4ed = -0.0176
 c5sd = -0.1129
 c5ed = -0.1174
 varx = 5.7739%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 15/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.15
Actual Amplitude:	0.15
Actual Power:	0.0225
Distortion 2H-22H:	0.0021339%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	6.4017	end:	6.698	delta:	0.2963
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	21.3624	end:	21.9373	delta:	0.575
P4 start:	23.3047	end:	23.5991	delta:	0.2944
P5 start:	36.6953	end:	38.0627	delta:	1.3674
P6 start:	51.5151	end:	53.302	delta:	1.7868
P7 start:	66.4017	end:	68.4849	delta:	2.0831
P8 start:	81.3624	end:	83.5991	delta:	2.2367

H3: 0.0	H19: 9.79926e-06	H19f: 5.1575e-07
H5: -1.7202e-05	H21: -6.74587e-07	H21f: -3.21232e-08
H7: -1.73465e-06	H23: 1.01677	H23f: 0.0442075
H9: 5.62156e-07	H25: -0.920141	H25f: -0.0368056
H11: -4.36948e-06	H27: -1.0681e-06	H27f: -3.95591e-08
H13: 1.4789e-06	H29: 0.0185261	H29f: 0.00063883
H15: 2.02376e-07	H31: 0.0112303	H31f: 0.000362268
H17: 6.19032e-06	H33: -1.04254e-06	H33f: -3.15922e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0334
c3ed = 0.1153
c4sd = 0.1268
c4ed = -0.0051
c5sd = -0.1268
c5ed = -0.1153
varx = 5.7524%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 16/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.16
Actual Amplitude:	0.16
Actual Power:	0.0256
Distortion 2H-22H:	0.00566651%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 6.328	end: 6.6444	delta: 0.3164
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.2859	end: 21.8967	delta: 0.6107
P4 start: 23.3547	end: 23.6723	delta: 0.3176
P5 start: 36.6453	end: 38.1033	delta: 1.458
P6 start: 51.4497	end: 53.3556	delta: 1.9059
P7 start: 66.328	end: 68.5503	delta: 2.2223
P8 start: 81.2859	end: 83.6723	delta: 2.3864

H3: -9.48637e-07	H19: 3.56987e-05	H19f: 1.87888e-06
H5: -3.70917e-05	H21: -1.26485e-06	H21f: -6.0231e-08
H7: -1.48394e-05	H23: 1.0153	H23f: 0.0441433
H9: -1.05404e-06	H25: -0.913019	H25f: -0.0365208
H11: 9.91757e-06	H27: 3.86482e-07	H27f: 1.43141e-08
H13: -1.40106e-05	H29: 0.0211055	H29f: 0.000727777
H15: -1.58106e-06	H31: 0.0128142	H31f: 0.000413362
H17: 6.30565e-06	H33: 9.19891e-07	H33f: 2.78755e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.029
c3ed = 0.1243
c4sd = 0.1271
c4ed = -0.0127
c5sd = -0.1271
c5ed = -0.1243
varx = 5.7292%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.17
Actual Amplitude:	0.17
Actual Power:	0.0289001
Distortion 2H-22H:	0.00133959%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 6.2541	end: 6.5907	delta: 0.3366
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.2096	end: 21.8566	delta: 0.647
P4 start: 23.405	end: 23.7457	delta: 0.3407
P5 start: 36.595	end: 38.1434	delta: 1.5484
P6 start: 51.3844	end: 53.4093	delta: 2.0249
P7 start: 66.2541	end: 68.6156	delta: 2.3615
P8 start: 81.2096	end: 83.7457	delta: 2.5361

H3: 1.48806e-07	H19: 7.77705e-06	H19f: 4.09319e-07
H5: -1.05354e-05	H21: -2.97611e-07	H21f: -1.4172e-08
H7: -2.55095e-07	H23: 1.0136	H23f: 0.0440697
H9: -1.48806e-07	H25: -0.90558	H25f: -0.0362232
H11: -1.37983e-06	H27: 4.62951e-07	H27f: 1.71463e-08
H13: 1.03019e-07	H29: 0.0236911	H29f: 0.000816935
H15: 3.86895e-07	H31: 0.0144331	H31f: 0.000465583
H17: 2.38964e-06	H33: 1.01458e-06	H33f: 3.0745e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0346
c3ed = 0.1276
c4sd = 0.134
c4ed = -0.01
c5sd = -0.134
c5ed = -0.1276
varx = 5.7046%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.18
Actual Amplitude:	0.18
Actual Power:	0.0324
Distortion 2H-22H:	0.00116825%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total weighting events:	56
Delta Friendly:	Yes

P1 start: 6.1802	end: 6.537	delta: 0.3568
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.1331	end: 21.8157	delta: 0.6826
P4 start: 23.4544	end: 23.8191	delta: 0.3646
P5 start: 36.5456	end: 38.1843	delta: 1.6387
P6 start: 51.319	end: 53.463	delta: 2.1439
P7 start: 66.1802	end: 68.681	delta: 2.5008
P8 start: 81.1331	end: 83.8191	delta: 2.6859

H3: -8.43233e-07	H19: 4.48245e-06	H19f: 2.35918e-07
H5: -6.1556e-06	H21: -8.23156e-07	H21f: -3.91979e-08
H7: -5.48102e-06	H23: 1.01153	H23f: 0.0439796
H9: -1.87385e-07	H25: -0.897993	H25f: -0.0359197
H11: 1.53315e-06	H27: 7.49541e-07	H27f: 2.77608e-08
H13: -3.21077e-06	H29: 0.0264952	H29f: 0.000913629
H15: 3.37293e-07	H31: 0.0161967	H31f: 0.000522473
H17: 5.85303e-06	H33: -1.53315e-07	H33f: -4.64591e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0357
c3ed = 0.1331
c4sd = 0.1371
c4ed = -0.0121
c5sd = -0.1371
c5ed = -0.1331
varx = 5.6784%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.19
 Actual Amplitude: 0.19
 Actual Power: 0.0361
 Distortion 2H-22H: 0.00163723%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 6.1062	end: 6.4833	delta: 0.3771
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 21.0566	end: 21.7744	delta: 0.7179
P4 start: 23.5033	end: 23.8924	delta: 0.3891
P5 start: 36.4967	end: 38.2256	delta: 1.7288
P6 start: 51.2538	end: 53.5167	delta: 2.2629
P7 start: 66.1062	end: 68.7462	delta: 2.6401
P8 start: 81.0566	end: 83.8924	delta: 2.8358

H3: 2.66284e-07	H19: 8.15671e-06	H19f: 4.293e-07
H5: -1.19029e-05	H21: 9.51015e-08	H21f: 4.52864e-09
H7: -3.25247e-06	H23: 1.00913	H23f: 0.0438754
H9: -1.06514e-06	H25: -0.890212	H25f: -0.0356085
H11: -3.1591e-06	H27: 3.84633e-07	H27f: 1.42457e-08
H13: -1.44408e-06	H29: 0.0294742	H29f: 0.00101635
H15: -2.92913e-07	H31: 0.0180442	H31f: 0.000582071
H17: 5.99139e-06	H33: 2.5418e-07	H33f: 7.70244e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0468
 c3ed = 0.132
 c4sd = 0.1457
 c4ed = -0.0042
 c5sd = -0.1457
 c5ed = -0.132
 varx = 5.6507%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 20/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.2
Actual Amplitude:	0.2
Actual Power:	0.04
Distortion 2H-22H:	0.0019896%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 6.032	end: 6.4296	delta: 0.3975
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.9799	end: 21.7329	delta: 0.7529
P4 start: 23.5517	end: 23.9657	delta: 0.414
P5 start: 36.4483	end: 38.2671	delta: 1.8188
P6 start: 51.1886	end: 53.5704	delta: 2.3819
P7 start: 66.032	end: 68.8114	delta: 2.7794
P8 start: 80.9799	end: 83.9657	delta: 2.9858

H3: -7.5891e-07	H19: 1.20427e-05	H19f: 6.33826e-07
H5: -1.54059e-05	H21: -5.78217e-07	H21f: -2.75341e-08
H7: -3.25247e-06	H23: 1.00642	H23f: 0.0437574
H9: -8.43233e-08	H25: -0.882227	H25f: -0.0352891
H11: -1.31084e-06	H27: -3.93509e-07	H27f: -1.45744e-08
H13: -5.83777e-08	H29: 0.0325912	H29f: 0.00112384
H15: 2.5297e-08	H31: 0.0199867	H31f: 0.000644734
H17: 5.1338e-07	H33: -2.64469e-07	H33f: -8.0142e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0451
c3ed = 0.1385
c4sd = 0.146
c4ed = -0.0093
c5sd = -0.146
c5ed = -0.1385
varx = 5.6214%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.21
Actual Amplitude:	0.21
Actual Power:	0.0441
Distortion 2H-22H:	0.000255368%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.9579	end: 6.3759	delta: 0.418
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.9032	end: 21.6912	delta: 0.7879
P4 start: 23.5997	end: 24.0391	delta: 0.4394
P5 start: 36.4003	end: 38.3088	delta: 1.9086
P6 start: 51.1234	end: 53.6241	delta: 2.5007
P7 start: 65.9579	end: 68.8766	delta: 2.9187
P8 start: 80.9032	end: 84.0391	delta: 3.1359

H3: 1.20462e-07	H19: 4.75507e-07	H19f: 2.50267e-08
H5: -1.22871e-06	H21: 4.13012e-07	H21f: 1.96672e-08
H7: -1.91018e-06	H23: 1.00342	H23f: 0.0436268
H9: 1.20462e-07	H25: -0.874028	H25f: -0.0349611
H11: -9.85597e-08	H27: -4.81847e-07	H27f: -1.78462e-08
H13: -2.77989e-07	H29: 0.035799	H29f: 0.00123445
H15: -1.20462e-07	H31: 0.0220237	H31f: 0.000710443
H17: 9.14093e-07	H33: 3.72337e-07	H33f: 1.12829e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0449
c3ed = 0.144
c4sd = 0.1469
c4ed = -0.0127
c5sd = -0.1469
c5ed = -0.144
varx = 5.5907%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.22
Actual Amplitude:	0.220001
Actual Power:	0.0484003
Distortion 2H-22H:	0.000416516%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.8836	end: 6.3222	delta: 0.4386
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.8265	end: 21.649	delta: 0.8225
P4 start: 23.6471	end: 24.1125	delta: 0.4653
P5 start: 36.3529	end: 38.351	delta: 1.9982
P6 start: 51.0582	end: 53.6778	delta: 2.6196
P7 start: 65.8836	end: 68.9418	delta: 3.0581
P8 start: 80.8265	end: 84.1125	delta: 3.286

H3: 5.7493e-07	H19: 9.2594e-07	H19f: 4.87337e-08
H5: -3.44958e-06	H21: 1.31413e-07	H21f: 6.25774e-09
H7: -2.95678e-06	H23: 1.00007	H23f: 0.0434812
H9: -7.66573e-08	H25: -0.865663	H25f: -0.0346265
H11: -1.34847e-06	H27: -6.64363e-07	H27f: -2.46061e-08
H13: 1.22062e-06	H29: 0.0391891	H29f: 0.00135135
H15: 1.14986e-07	H31: 0.0241609	H31f: 0.000779385
H17: 1.98858e-06	H33: -1.19167e-06	H33f: -3.61113e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0518
c3ed = 0.1447
c4sd = 0.1514
c4ed = -0.0092
c5sd = -0.1514
c5ed = -0.1447
varx = 5.5584%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.23
Actual Amplitude:	0.23
Actual Power:	0.0529
Distortion 2H-22H:	0.000359593%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.8093	end: 6.2685	delta: 0.4592
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.7496	end: 21.6064	delta: 0.8569
P4 start: 23.694	end: 24.1858	delta: 0.4919
P5 start: 36.306	end: 38.3936	delta: 2.0875
P6 start: 50.9932	end: 53.7315	delta: 2.7383
P7 start: 65.8093	end: 69.0068	delta: 3.1976
P8 start: 80.7496	end: 84.1858	delta: 3.4363

H3: 2.19974e-07	H19: 1.04198e-06	H19f: 5.48411e-08
H5: -9.2389e-07	H21: 5.02797e-07	H21f: 2.39427e-08
H7: -2.87537e-06	H23: 0.996403	H23f: 0.0433219
H9: -3.66623e-07	H25: -0.857117	H25f: -0.0342847
H11: -1.13986e-06	H27: -1.95532e-07	H27f: -7.24194e-09
H13: 8.88356e-07	H29: 0.042716	H29f: 0.00147297
H15: -4.39948e-07	H31: 0.0263905	H31f: 0.000851307
H17: -7.76378e-08	H33: 7.99905e-08	H33f: 2.42395e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0451
c3ed = 0.1536
c4sd = 0.1469
c4ed = -0.0195
c5sd = -0.1469
c5ed = -0.1536
varx = 5.5247%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 24/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.24
Actual Amplitude:	0.24
Actual Power:	0.0575998
Distortion 2H-22H:	0.000341528%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.7348	end: 6.2148	delta: 0.48
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.6726	end: 21.5636	delta: 0.891
P4 start: 23.7403	end: 24.2592	delta: 0.519
P5 start: 36.2597	end: 38.4364	delta: 2.1767
P6 start: 50.9282	end: 53.7852	delta: 2.857
P7 start: 65.7348	end: 69.0718	delta: 3.337
P8 start: 80.6726	end: 84.2592	delta: 3.5866

H3: 0.0	H19: 1.64764e-06	H19f: 8.67177e-08
H5: -1.77079e-06	H21: 3.01155e-07	H21f: 1.43407e-08
H7: -1.71658e-06	H23: 0.992424	H23f: 0.0431488
H9: -3.16213e-07	H25: -0.848392	H25f: -0.0339357
H11: -5.17439e-07	H27: -2.10809e-07	H27f: -7.80773e-09
H13: 4.62157e-07	H29: 0.0463733	H29f: 0.00159908
H15: -5.48102e-07	H31: 0.02871	H31f: 0.000926129
H17: 1.37646e-06	H33: -1.62898e-07	H33f: -4.93629e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0648
c3ed = 0.1459
c4sd = 0.158
c4ed = -0.0034
c5sd = -0.158
c5ed = -0.1459
varx = 5.4895%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.25
Actual Amplitude:	0.25
Actual Power:	0.0625001
Distortion 2H-22H:	0.000198884%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.6603	end: 6.1611	delta: 0.5009
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.5955	end: 21.5205	delta: 0.9249
P4 start: 23.786	end: 24.3326	delta: 0.5466
P5 start: 36.214	end: 38.4795	delta: 2.2656
P6 start: 50.8632	end: 53.8389	delta: 2.9757
P7 start: 65.6603	end: 69.1368	delta: 3.4765
P8 start: 80.5955	end: 84.3326	delta: 3.7371

H3: 4.04752e-07	H19: -1.27816e-06	H19f: -6.72718e-08
H5: 6.6784e-07	H21: -2.60198e-07	H21f: -1.23904e-08
H7: 9.97424e-07	H23: 0.988136	H23f: 0.0429624
H9: -2.69835e-07	H25: -0.839485	H25f: -0.0335794
H11: 6.34724e-07	H27: -4.49724e-07	H27f: -1.66565e-08
H13: 2.1016e-07	H29: 0.0501543	H29f: 0.00172946
H15: -1.61901e-07	H31: 0.0311146	H31f: 0.0010037
H17: -3.21421e-07	H33: 1.74779e-07	H33f: 5.29634e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0606
c3ed = 0.1526
c4sd = 0.1539
c4ed = -0.0112
c5sd = -0.1539
c5ed = -0.1526
varx = 5.4528%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.26
Actual Amplitude:	0.26
Actual Power:	0.0675998
Distortion 2H-22H:	0.000141807%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.5856	end: 6.1075	delta: 0.5218
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.5184	end: 21.477	delta: 0.9586
P4 start: 23.8312	end: 24.406	delta: 0.5748
P5 start: 36.1688	end: 38.523	delta: 2.3542
P6 start: 50.7983	end: 53.8925	delta: 3.0942
P7 start: 65.5856	end: 69.2017	delta: 3.6161
P8 start: 80.5184	end: 84.406	delta: 3.8876

H3: 1.94593e-07	H19: -4.30152e-07	H19f: -2.26396e-08
H5: -5.254e-07	H21: 3.61386e-07	H21f: 1.72089e-08
H7: -5.00381e-07	H23: 0.983528	H23f: 0.0427621
H9: 1.94593e-07	H25: -0.830422	H25f: -0.0332169
H11: 5.30707e-08	H27: 3.67564e-07	H27f: 1.36135e-08
H13: -5.83778e-07	H29: 0.0540694	H29f: 0.00186446
H15: 7.19993e-07	H31: 0.033615	H31f: 0.00108435
H17: 4.80758e-07	H33: 3.6265e-07	H33f: 1.09894e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0347
c3ed = 0.1724
c4sd = 0.1358
c4ed = -0.0409
c5sd = -0.1358
c5ed = -0.1724
varx = 5.4148%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.27
Actual Amplitude:	0.27
Actual Power:	0.0729002
Distortion 2H-22H:	0.000890446%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.5109	end: 6.0538	delta: 0.5429
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.4412	end: 21.4332	delta: 0.9921
P4 start: 23.8759	end: 24.4795	delta: 0.6036
P5 start: 36.1241	end: 38.5668	delta: 2.4426
P6 start: 50.7334	end: 53.9462	delta: 3.2127
P7 start: 65.5109	end: 69.2666	delta: 3.7556
P8 start: 80.4412	end: 84.4795	delta: 4.0383

H3: 4.68462e-07	H19: -6.80503e-06	H19f: -3.5816e-07
H5: 4.15995e-06	H21: 4.28308e-07	H21f: 2.03956e-08
H7: -4.81847e-07	H23: 0.978617	H23f: 0.0425486
H9: 1.24923e-07	H25: -0.821184	H25f: -0.0328473
H11: -1.27762e-07	H27: -7.7036e-07	H27f: -2.85319e-08
H13: 2.11889e-06	H29: 0.0580893	H29f: 0.00200308
H15: -1.31169e-07	H31: 0.0362011	H31f: 0.00116778
H17: 3.24066e-06	H33: -2.55525e-07	H33f: -7.74318e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0285
c3ed = 0.1799
c4sd = 0.1292
c4ed = -0.0508
c5sd = -0.1292
c5ed = -0.1799
varx = 5.3752%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 28/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.28
Actual Amplitude:	0.28
Actual Power:	0.0784
Distortion 2H-22H:	0.00246339%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.4361	end: 6.0002	delta: 0.5642
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.3638	end: 21.3893	delta: 1.0255
P4 start: 23.9201	end: 24.5529	delta: 0.6329
P5 start: 36.0799	end: 38.6107	delta: 2.5307
P6 start: 50.6687	end: 53.9998	delta: 3.3311
P7 start: 65.4361	end: 69.3313	delta: 3.8953
P8 start: 80.3638	end: 84.5529	delta: 4.1891

H3: 4.51732e-07	H19: -1.57773e-05	H19f: -8.30386e-07
H5: 1.37146e-05	H21: 1.29066e-07	H21f: 6.14602e-09
H7: 1.14611e-05	H23: 0.973422	H23f: 0.0423227
H9: 2.10808e-07	H25: -0.811764	H25f: -0.0324706
H11: -2.09439e-06	H27: -7.22771e-07	H27f: -2.67693e-08
H13: 5.44164e-06	H29: 0.0622149	H29f: 0.00214534
H15: 3.97524e-07	H31: 0.0388423	H31f: 0.00125298
H17: -2.00888e-06	H33: 1.80693e-07	H33f: 5.47554e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0125
c3ed = 0.1933
c4sd = 0.1161
c4ed = -0.0708
c5sd = -0.1161
c5ed = -0.1933
varx = 5.3344%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.29
 Actual Amplitude: 0.29
 Actual Power: 0.0841
 Distortion 2H-22H: 0.00228025%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 5.3611	end: 5.9466	delta: 0.5855
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.2864	end: 21.3448	delta: 1.0585
P4 start: 23.9634	end: 24.6264	delta: 0.663
P5 start: 36.0366	end: 38.6552	delta: 2.6186
P6 start: 50.604	end: 54.0534	delta: 3.4494
P7 start: 65.3611	end: 69.396	delta: 4.0349
P8 start: 80.2864	end: 84.6264	delta: 4.34

H3: 3.48924e-07	H19: -1.29745e-05	H19f: -6.82867e-07
H5: 1.44455e-05	H21: -9.96926e-08	H21f: -4.74727e-09
H7: 8.44895e-06	H23: 0.96788	H23f: 0.0420818
H9: 3.19847e-07	H25: -0.802232	H25f: -0.0320893
H11: -6.01894e-06	H27: -8.52926e-07	H27f: -3.15898e-08
H13: 5.51569e-06	H29: 0.0664869	H29f: 0.00229265
H15: 3.14032e-07	H31: 0.041598	H31f: 0.00134187
H17: -2.13973e-06	H33: -1.18951e-07	H33f: -3.60459e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0336
 c3ed = 0.1834
 c4sd = 0.1248
 c4ed = -0.0536
 c5sd = -0.1248
 c5ed = -0.1834
 varx = 5.2921%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 30/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.3
Actual Amplitude:	0.3
Actual Power:	0.0899999
Distortion 2H-22H:	0.00213235%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.2861	end: 5.893	delta: 0.607
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.2088	end: 21.3	delta: 1.0912
P4 start: 24.0062	end: 24.6999	delta: 0.6937
P5 start: 35.9938	end: 38.7	delta: 2.7061
P6 start: 50.5394	end: 54.107	delta: 3.5676
P7 start: 65.2861	end: 69.4606	delta: 4.1746
P8 start: 80.2088	end: 84.6999	delta: 4.4911

H3: 2.5297e-07	H19: -9.39984e-06	H19f: -4.94728e-07
H5: 1.41157e-05	H21: -3.85478e-07	H21f: -1.83561e-08
H7: 7.80593e-06	H23: 0.96204	H23f: 0.0418278
H9: 0.0	H25: -0.792547	H25f: -0.0317019
H11: -4.76044e-06	H27: -6.18371e-07	H27f: -2.29026e-08
H13: 8.05612e-06	H29: 0.0708703	H29f: 0.0024438
H15: 6.74587e-08	H31: 0.04443	H31f: 0.00143322
H17: -4.28561e-06	H33: 5.21272e-07	H33f: 1.57961e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0671
c3ed = 0.1657
c4sd = 0.1405
c4ed = -0.0242
c5sd = -0.1405
c5ed = -0.1657
varx = 5.2484%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.31
Actual Amplitude:	0.31
Actual Power:	0.0961
Distortion 2H-22H:	0.000812423%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.211	end: 5.8395	delta: 0.6285
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.1311	end: 21.2548	delta: 1.1237
P4 start: 24.0481	end: 24.7733	delta: 0.7252
P5 start: 35.9519	end: 38.7452	delta: 2.7933
P6 start: 50.4748	end: 54.1605	delta: 3.6857
P7 start: 65.211	end: 69.5252	delta: 4.3143
P8 start: 80.1311	end: 84.7733	delta: 4.6422

H3: -1.63206e-07	H19: -4.35503e-06	H19f: -2.29212e-07
H5: 5.09204e-06	H21: -1.16576e-07	H21f: -5.55124e-09
H7: 4.51149e-06	H23: 0.955878	H23f: 0.0415599
H9: -2.72011e-08	H25: -0.782739	H25f: -0.0313095
H11: 4.45108e-08	H27: -3.98949e-07	H27f: -1.47759e-08
H13: 5.08451e-07	H29: 0.075376	H29f: 0.00259917
H15: 3.91695e-07	H31: 0.0473499	H31f: 0.00152742
H17: -5.47222e-07	H33: -3.04157e-07	H33f: -9.21689e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0705
c3ed = 0.166
c4sd = 0.1369
c4ed = -0.0251
c5sd = -0.1369
c5ed = -0.166
varx = 5.2034%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 32/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.32
Actual Amplitude:	0.32
Actual Power:	0.1024
Distortion 2H-22H:	0.000706039%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.1357	end: 5.786	delta: 0.6503
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 20.0533	end: 21.2093	delta: 1.156
P4 start: 24.0896	end: 24.8468	delta: 0.7573
P5 start: 35.9104	end: 38.7907	delta: 2.8802
P6 start: 50.4103	end: 54.214	delta: 3.8037
P7 start: 65.1357	end: 69.5897	delta: 4.454
P8 start: 80.0533	end: 84.8468	delta: 4.7935

H3: 4.74319e-07	H19: -6.49068e-06	H19f: -3.41615e-07
H5: 1.84984e-06	H21: -2.71039e-07	H21f: -1.29066e-08
H7: 8.80878e-07	H23: 0.949429	H23f: 0.0412795
H9: -1.05404e-07	H25: -0.772782	H25f: -0.0309113
H11: 1.05644e-06	H27: -3.16212e-07	H27f: -1.17116e-08
H13: 7.11478e-07	H29: 0.0799651	H29f: 0.00275742
H15: 2.21349e-07	H31: 0.0503415	H31f: 0.00162392
H17: 1.2416e-06	H33: 1.43733e-07	H33f: 4.35554e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.077
c3ed = 0.1643
c4sd = 0.1346
c4ed = -0.0228
c5sd = -0.1346
c5ed = -0.1643
varx = 5.157%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.33
Actual Amplitude:	0.33
Actual Power:	0.1089
Distortion 2H-22H:	0.00253498%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 5.0603	end: 5.7325	delta: 0.6722
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.9754	end: 21.1638	delta: 1.1884
P4 start: 24.1306	end: 24.9204	delta: 0.7898
P5 start: 35.8694	end: 38.8362	delta: 2.9668
P6 start: 50.3459	end: 54.2675	delta: 3.9216
P7 start: 65.0603	end: 69.6541	delta: 4.5938
P8 start: 79.9754	end: 84.9204	delta: 4.945

H3: 3.83288e-07	H19: -1.67517e-05	H19f: -8.81668e-07
H5: 1.39363e-05	H21: 1.31413e-07	H21f: 6.25776e-09
H7: 6.76777e-06	H23: 0.942717	H23f: 0.0409877
H9: 1.78868e-07	H25: -0.762657	H25f: -0.0305063
H11: 4.59945e-07	H27: -9.88031e-07	H27f: -3.65937e-08
H13: 8.96894e-06	H29: 0.0846207	H29f: 0.00291796
H15: -6.13261e-08	H31: 0.0533803	H31f: 0.00172194
H17: -6.41218e-06	H33: 1.67253e-07	H33f: 5.06827e-09

c2sd = 0.0
c2ed = 0.0
c3sd = 0.0065
c3ed = 0.2179
c4sd = 0.0765
c4ed = -0.1107
c5sd = -0.0765
c5ed = -0.2179
varx = 5.1094%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.34
Actual Amplitude:	0.34
Actual Power:	0.1156
Distortion 2H-22H:	0.000810499%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.9849	end: 5.6791	delta: 0.6942
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.8974	end: 21.1175	delta: 1.2201
P4 start: 24.1705	end: 24.9939	delta: 0.8234
P5 start: 35.8295	end: 38.8825	delta: 3.053
P6 start: 50.2816	end: 54.3209	delta: 4.0393
P7 start: 64.9849	end: 69.7184	delta: 4.7335
P8 start: 79.8974	end: 84.9939	delta: 5.0965

H3: -7.44029e-08	H19: -5.16905e-06	H19f: -2.72055e-07
H5: 1.83031e-06	H21: 6.37739e-08	H21f: 3.03685e-09
H7: 1.78567e-06	H23: 0.935649	H23f: 0.0406804
H9: 2.72811e-07	H25: -0.752472	H25f: -0.0300989
H11: -1.09575e-06	H27: -2.64544e-07	H27f: -9.79792e-09
H13: 5.25399e-06	H29: 0.0894297	H29f: 0.00308378
H15: 8.48193e-07	H31: 0.0565238	H31f: 0.00182335
H17: -1.68063e-06	H33: 3.44959e-07	H33f: 1.04533e-08

c2sd = 0.0
c2ed = 0.0
c3sd = 0.0129
c3ed = 0.2234
c4sd = 0.0645
c4ed = -0.1216
c5sd = -0.0645
c5ed = -0.2234
varx = 5.0605%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 35/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.35
Actual Amplitude:	0.35
Actual Power:	0.1225
Distortion 2H-22H:	0.000255898%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.9093	end: 5.6257	delta: 0.7164
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.8192	end: 21.071	delta: 1.2518
P4 start: 24.2098	end: 25.0675	delta: 0.8576
P5 start: 35.7902	end: 38.929	delta: 3.1388
P6 start: 50.2174	end: 54.3743	delta: 4.157
P7 start: 64.9093	end: 69.7826	delta: 4.8734
P8 start: 79.8192	end: 85.0675	delta: 5.2482

H3: 0.0	H19: -1.07274e-06	H19f: -5.64603e-08
H5: 5.20395e-07	H21: -6.19518e-08	H21f: -2.95009e-09
H7: 2.78783e-07	H23: 0.928308	H23f: 0.0403612
H9: 3.13201e-07	H25: -0.742146	H25f: -0.0296858
H11: -1.73465e-06	H27: -2.40924e-07	H27f: -8.9231e-09
H13: 9.34043e-07	H29: 0.0943029	H29f: 0.00325182
H15: -3.18019e-07	H31: 0.0597253	H31f: 0.00192662
H17: 9.82119e-07	H33: -3.74527e-07	H33f: -1.13493e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0037
c3ed = 0.2148
c4sd = 0.0661
c4ed = -0.1096
c5sd = -0.0661
c5ed = -0.2148
varx = 5.0103%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 36/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.36
Actual Amplitude:	0.36
Actual Power:	0.1296
Distortion 2H-22H:	0.00121942%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.8336	end: 5.5724	delta: 0.7388
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.741	end: 21.0244	delta: 1.2834
P4 start: 24.2487	end: 25.1411	delta: 0.8924
P5 start: 35.7514	end: 38.9756	delta: 3.2243
P6 start: 50.1532	end: 54.4276	delta: 4.2744
P7 start: 64.8336	end: 69.8468	delta: 5.0132
P8 start: 79.741	end: 85.1411	delta: 5.4001

H3: 1.40539e-07	H19: -7.811e-06	H19f: -4.11105e-07
H5: 5.27021e-06	H21: -5.22002e-07	H21f: -2.48572e-08
H7: 1.566e-06	H23: 0.920699	H23f: 0.0400304
H9: -2.81078e-07	H25: -0.731684	H25f: -0.0292674
H11: -3.52625e-06	H27: -2.81078e-07	H27f: -1.04103e-08
H13: 6.681e-06	H29: 0.0992376	H29f: 0.00342199
H15: 7.02694e-08	H31: 0.0629796	H31f: 0.0020316
H17: 1.11604e-07	H33: -2.29973e-07	H33f: -6.96887e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0364
c3ed = 0.1961
c4sd = 0.077
c4ed = -0.0815
c5sd = -0.077
c5ed = -0.1961
varx = 4.9588%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.37
Actual Amplitude:	0.37
Actual Power:	0.1369
Distortion 2H-22H:	0.000164892%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.7577	end: 5.5191	delta: 0.7613
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.6625	end: 20.9772	delta: 1.3147
P4 start: 24.2865	end: 25.2146	delta: 0.9281
P5 start: 35.7135	end: 39.0228	delta: 3.3093
P6 start: 50.0892	end: 54.4809	delta: 4.3918
P7 start: 64.7577	end: 69.9108	delta: 5.1531
P8 start: 79.6625	end: 85.2146	delta: 5.5521

H3: 6.83703e-08	H19: -2.15906e-07	H19f: -1.13635e-08
H5: -9.4351e-07	H21: -1.36741e-07	H21f: -6.51145e-09
H7: -4.10222e-07	H23: 0.912774	H23f: 0.0396858
H9: -1.59531e-07	H25: -0.721146	H25f: -0.0288458
H11: -7.45857e-07	H27: -2.27901e-07	H27f: -8.44077e-09
H13: 8.67776e-07	H29: 0.104284	H29f: 0.003596
H15: 4.3757e-07	H31: 0.0663076	H31f: 0.00213896
H17: 2.53372e-07	H33: -1.80249e-07	H33f: -5.46209e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1224
c3ed = 0.1443
c4sd = 0.1194
c4ed = -0.0004
c5sd = -0.1194
c5ed = -0.1443
varx = 4.9062%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.38
 Actual Amplitude: 0.38
 Actual Power: 0.1444
 Distortion 2H-22H: 0.00038095%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 4.6818	end: 5.4659	delta: 0.7841
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.584	end: 20.9298	delta: 1.3458
P4 start: 24.3237	end: 25.2883	delta: 0.9646
P5 start: 35.6763	end: 39.0702	delta: 3.3939
P6 start: 50.0252	end: 54.5341	delta: 4.5089
P7 start: 64.6818	end: 69.9748	delta: 5.293
P8 start: 79.584	end: 85.2883	delta: 5.7043

H3: 4.65997e-07	H19: -4.20449e-07	H19f: -2.21289e-08
H5: -4.39369e-07	H21: 3.80406e-08	H21f: 1.81146e-09
H7: -1.39799e-06	H23: 0.904578	H23f: 0.0393295
H9: -1.10952e-07	H25: -0.710494	H25f: -0.0284197
H11: -1.57955e-06	H27: -1.77523e-07	H27f: -6.57492e-09
H13: 2.3812e-06	H29: 0.109385	H29f: 0.00377189
H15: -1.86399e-07	H31: 0.0696923	H31f: 0.00224814
H17: 1.93839e-06	H33: 2.42077e-08	H33f: 7.33565e-10

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.1219
 c3ed = 0.1454
 c4sd = 0.1081
 c4ed = -0.0058
 c5sd = -0.1081
 c5ed = -0.1454
 varx = 4.8523%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.39
 Actual Amplitude: 0.39
 Actual Power: 0.1521
 Distortion 2H-22H: 0.000448719%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 4.6057	end: 5.4127	delta: 0.807
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.5053	end: 20.8821	delta: 1.3768
P4 start: 24.3602	end: 25.3619	delta: 1.0017
P5 start: 35.6398	end: 39.1179	delta: 3.4781
P6 start: 49.9614	end: 54.5873	delta: 4.6259
P7 start: 64.6057	end: 70.0386	delta: 5.4329
P8 start: 79.5053	end: 85.3619	delta: 5.8566

H3: -3.2432e-07	H19: -3.17493e-06	H19f: -1.67101e-07
H5: 2.45186e-06	H21: 1.85326e-08	H21f: 8.82504e-10
H7: 1.22315e-06	H23: 0.89611	H23f: 0.0389613
H9: -2.59456e-07	H25: -0.699736	H25f: -0.0279894
H11: 8.8451e-08	H27: -8.64854e-07	H27f: -3.20316e-08
H13: 1.0478e-07	H29: 0.114548	H29f: 0.00394994
H15: 5.18913e-08	H31: 0.0731249	H31f: 0.00235887
H17: 1.53384e-06	H33: -5.89673e-08	H33f: -1.78689e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.0669
 c3ed = 0.1798
 c4sd = 0.0625
 c4ed = -0.066
 c5sd = -0.0625
 c5ed = -0.1798
 varx = 4.7973%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 40/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.4
Actual Amplitude:	0.4
Actual Power:	0.16
Distortion 2H-22H:	9.37341e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.5295	end: 5.3596	delta: 0.8302
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.4264	end: 20.834	delta: 1.4076
P4 start: 24.3958	end: 25.4356	delta: 1.0397
P5 start: 35.6042	end: 39.166	delta: 3.5619
P6 start: 49.8976	end: 54.6404	delta: 4.7427
P7 start: 64.5295	end: 70.1024	delta: 5.5729
P8 start: 79.4264	end: 85.4356	delta: 6.0091

H3: -2.5297e-07	H19: -2.9957e-07	H19f: -1.57668e-08
H5: -3.41509e-07	H21: 1.08416e-07	H21f: 5.16265e-09
H7: 4.33663e-07	H23: 0.887351	H23f: 0.0385805
H9: 8.43233e-08	H25: -0.688905	H25f: -0.0275562
H11: -4.13951e-07	H27: -4.77832e-07	H27f: -1.76975e-08
H13: 2.33511e-07	H29: 0.119789	H29f: 0.00413065
H15: 2.90915e-07	H31: 0.0766164	H31f: 0.0024715
H17: 3.01332e-07	H33: -8.04904e-08	H33f: -2.4391e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0795
c3ed = 0.1724
c4sd = 0.0574
c4ed = -0.0585
c5sd = -0.0574
c5ed = -0.1724
varx = 4.7411%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.41
Actual Amplitude:	0.41
Actual Power:	0.1681
Distortion 2H-22H:	0.00026947%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.4531	end: 5.3066	delta: 0.8535
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.3474	end: 20.7856	delta: 1.4382
P4 start: 24.4307	end: 25.5092	delta: 1.0785
P5 start: 35.5693	end: 39.2144	delta: 3.6452
P6 start: 49.834	end: 54.6934	delta: 4.8593
P7 start: 64.4531	end: 70.166	delta: 5.7129
P8 start: 79.3474	end: 85.5092	delta: 6.1618

H3: 2.468e-07	H19: -1.18854e-06	H19f: -6.25546e-08
H5: -2.9616e-07	H21: -1.76286e-08	H21f: -8.39456e-10
H7: -1.1106e-06	H23: 0.878323	H23f: 0.0381879
H9: -5.14167e-07	H25: -0.677987	H25f: -0.0271195
H11: -4.71164e-07	H27: -5.48445e-08	H27f: -2.03128e-09
H13: 1.59471e-06	H29: 0.12508	H29f: 0.00431311
H15: -4.936e-08	H31: 0.080158	H31f: 0.00258574
H17: 1.19771e-06	H33: -1.12182e-07	H33f: -3.39945e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1943
c3ed = 0.102
c4sd = 0.1143
c4ed = 0.051
c5sd = -0.1143
c5ed = -0.102
varx = 4.6838%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.42
Actual Amplitude:	0.42
Actual Power:	0.1764
Distortion 2H-22H:	7.75909e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.3766	end: 5.2537	delta: 0.8771
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.2682	end: 20.7368	delta: 1.4686
P4 start: 24.4648	end: 25.5829	delta: 1.1182
P5 start: 35.5352	end: 39.2632	delta: 3.728
P6 start: 49.7705	end: 54.7463	delta: 4.9758
P7 start: 64.3766	end: 70.2295	delta: 5.8529
P8 start: 79.2682	end: 85.5829	delta: 6.3147

H3: 6.0231e-08	H19: -5.13548e-07	H19f: -2.70289e-08
H5: 1.44554e-07	H21: -3.61386e-07	H21f: -1.72089e-08
H7: 1.80693e-07	H23: 0.869024	H23f: 0.0377837
H9: -4.0154e-08	H25: -0.666991	H25f: -0.0266796
H11: 0.0	H27: -2.81078e-07	H27f: -1.04103e-08
H13: 1.80693e-07	H29: 0.130426	H29f: 0.00449743
H15: -2.40924e-08	H31: 0.0837421	H31f: 0.00270136
H17: -3.40128e-07	H33: 1.9712e-07	H33f: 5.97332e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1996
c3ed = 0.0986
c4sd = 0.103
c4ed = 0.0508
c5sd = -0.103
c5ed = -0.0986
varx = 4.6254%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.43
Actual Amplitude:	0.43
Actual Power:	0.1849
Distortion 2H-22H:	0.000179738%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.3	end: 5.2008	delta: 0.9009
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.1889	end: 20.6877	delta: 1.4988
P4 start: 24.498	end: 25.6567	delta: 1.1587
P5 start: 35.502	end: 39.3123	delta: 3.8103
P6 start: 49.7071	end: 54.7992	delta: 5.092
P7 start: 64.3	end: 70.2929	delta: 5.9929
P8 start: 79.1889	end: 85.6567	delta: 6.4678

H3: 5.88302e-08	H19: 0.0	H19f: 0.0
H5: -3.17683e-07	H21: -1.68086e-08	H21f: -8.00411e-10
H7: -3.52981e-07	H23: 0.859455	H23f: 0.0373676
H9: -1.1766e-07	H25: -0.655929	H25f: -0.0262372
H11: -1.37984e-06	H27: -2.22248e-07	H27f: -8.23139e-09
H13: 9.77487e-07	H29: 0.135819	H29f: 0.00468341
H15: 5.88302e-08	H31: 0.0873731	H31f: 0.00281849
H17: 3.52981e-07	H33: 3.36937e-07	H33f: 1.02102e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2005
c3ed = 0.0976
c4sd = 0.0881
c4ed = 0.0461
c5sd = -0.0881
c5ed = -0.0976
varx = 4.5659%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.44
 Actual Amplitude: 0.44
 Actual Power: 0.1936
 Distortion 2H-22H: 9.65263e-05%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 4.2232	end: 5.1481	delta: 0.9249
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.1094	end: 20.6382	delta: 1.5289
P4 start: 24.5304	end: 25.7304	delta: 1.2001
P5 start: 35.4696	end: 39.3618	delta: 3.8922
P6 start: 49.6439	end: 54.8519	delta: 5.208
P7 start: 64.2232	end: 70.3561	delta: 6.1329
P8 start: 79.1094	end: 85.7304	delta: 6.6211

H3: -1.7248e-07	H19: 2.36025e-07	H19f: 1.24223e-08
H5: 6.89918e-08	H21: -3.28532e-08	H21f: -1.56444e-09
H7: -6.89918e-07	H23: 0.849623	H23f: 0.0369401
H9: 3.25795e-07	H25: -0.644803	H25f: -0.0257921
H11: -2.35199e-07	H27: 3.83288e-08	H27f: 1.41958e-09
H13: 3.9803e-08	H29: 0.141254	H29f: 0.00487082
H15: -4.59945e-08	H31: 0.0910424	H31f: 0.00293685
H17: 4.46418e-07	H33: -2.14293e-07	H33f: -6.49372e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.1743
 c3ed = 0.1131
 c4sd = 0.0555
 c4ed = 0.0141
 c5sd = -0.0555
 c5ed = -0.1131
 varx = 4.5053%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 45/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.45
Actual Amplitude:	0.45
Actual Power:	0.2025
Distortion 2H-22H:	0.000987305%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 4.1462	end: 5.0954	delta: 0.9492
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 19.0297	end: 20.5885	delta: 1.5588
P4 start: 24.562	end: 25.8042	delta: 1.2422
P5 start: 35.438	end: 39.4115	delta: 3.9735
P6 start: 49.5808	end: 54.9046	delta: 5.3238
P7 start: 64.1462	end: 70.4192	delta: 6.273
P8 start: 79.0297	end: 85.8042	delta: 6.7746

H3: 3.37293e-07	H19: -7.13641e-06	H19f: -3.75601e-07
H5: 2.42851e-06	H21: -1.60616e-07	H21f: -7.64837e-09
H7: 3.97524e-06	H23: 0.839551	H23f: 0.0365022
H9: 1.12431e-07	H25: -0.6336	H25f: -0.025344
H11: 9.19891e-08	H27: -6.87079e-07	H27f: -2.54474e-08
H13: 4.96859e-06	H29: 0.146711	H29f: 0.00505899
H15: -2.24862e-08	H31: 0.0947406	H31f: 0.00305615
H17: 1.98408e-08	H33: 9.19891e-08	H33f: 2.78755e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0744
c3ed = 0.1736
c4sd = -0.0231
c4ed = -0.0917
c5sd = 0.0231
c5ed = -0.1736
varx = 4.4438%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.46
Actual Amplitude:	0.46
Actual Power:	0.2116
Distortion 2H-22H:	0.000140134%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total weighting events:	56
Delta Friendly:	Yes

P1 start: 4.0691	end: 5.0428	delta: 0.9737
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 18.9497	end: 20.5382	delta: 1.5885
P4 start: 24.5925	end: 25.878	delta: 1.2855
P5 start: 35.4075	end: 39.4618	delta: 4.0543
P6 start: 49.5178	end: 54.9572	delta: 5.4393
P7 start: 64.0691	end: 70.4822	delta: 6.413
P8 start: 78.9497	end: 85.878	delta: 6.9283

H3: 1.6498e-07	H19: -5.03625e-07	H19f: -2.65066e-08
H5: 8.24902e-07	H21: -9.42745e-08	H21f: -4.48926e-09
H7: -1.17843e-07	H23: 0.82919	H23f: 0.0360517
H9: 1.46649e-07	H25: -0.622382	H25f: -0.0248953
H11: -7.94906e-07	H27: -3.78844e-07	H27f: -1.40313e-08
H13: 5.33014e-07	H29: 0.152223	H29f: 0.00524906
H15: -1.53982e-07	H31: 0.0984827	H31f: 0.00317686
H17: 1.35866e-07	H33: 2.99964e-08	H33f: 9.08983e-10

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1639
c3ed = 0.1175
c4sd = 0.0133
c4ed = -0.0083
c5sd = -0.0133
c5ed = -0.1175
varx = 4.3812%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.47
Actual Amplitude:	0.47
Actual Power:	0.2209
Distortion 2H-22H:	0.000717459%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	3.9918	end:	4.9904	delta:	0.9985
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	18.8696	end:	20.4877	delta:	1.6181
P4 start:	24.6223	end:	25.9519	delta:	1.3296
P5 start:	35.3777	end:	39.5123	delta:	4.1346
P6 start:	49.455	end:	55.0097	delta:	5.5546
P7 start:	63.9919	end:	70.545	delta:	6.5531
P8 start:	78.8696	end:	85.9519	delta:	7.0822

H3:	3.2294e-07	H19:	-3.51835e-06	H19f:	-1.85176e-07
H5:	4.23052e-06	H21:	-1.69159e-07	H21f:	-8.0552e-09
H7:	4.31356e-06	H23:	0.818601	H23f:	0.0355914
H9:	8.97057e-08	H25:	-0.611094	H25f:	-0.0244438
H11:	-6.6056e-07	H27:	-4.7843e-08	H27f:	-1.77196e-09
H13:	7.45247e-07	H29:	0.157742	H29f:	0.00543938
H15:	4.95175e-07	H31:	0.102245	H31f:	0.00329822
H17:	1.1018e-06	H33:	2.15294e-07	H33f:	6.52405e-09

c2sd =	0.0
c2ed =	0.0
c3sd =	-0.1738
c3ed =	0.1101
c4sd =	-0.0001
c4ed =	-0.0047
c5sd =	0.0001
c5ed =	-0.1101
varx =	4.3177%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 48/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.48
Actual Amplitude:	0.48
Actual Power:	0.2304
Distortion 2H-22H:	0.00136463%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	3.9144	end:	4.938	delta:	1.0236
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	18.7894	end:	20.4369	delta:	1.6475
P4 start:	24.6512	end:	26.0258	delta:	1.3746
P5 start:	35.3488	end:	39.5632	delta:	4.2143
P6 start:	49.3924	end:	55.062	delta:	5.6696
P7 start:	63.9144	end:	70.6076	delta:	6.6932
P8 start:	78.7894	end:	86.0258	delta:	7.2364

H3: 1.05404e-07	H19: -8.33802e-06	H19f: -4.38843e-07
H5: 5.6602e-06	H21: 7.52887e-08	H21f: 3.58517e-09
H7: 3.22988e-06	H23: 0.807764	H23f: 0.0351202
H9: -3.51347e-08	H25: -0.59977	H25f: -0.0239908
H11: -7.18665e-08	H27: -3.86482e-07	H27f: -1.43141e-08
H13: 8.40395e-06	H29: 0.163282	H29f: 0.0056304
H15: 2.21349e-07	H31: 0.106033	H31f: 0.00342041
H17: -1.87867e-06	H33: 3.35377e-07	H33f: 1.01629e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1513
c3ed = 0.1223
c4sd = -0.0343
c4ed = -0.0335
c5sd = 0.0343
c5ed = -0.1223
varx = 4.2532%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.49
 Actual Amplitude: 0.49
 Actual Power: 0.2401
 Distortion 2H-22H: 0.000320925%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 3.8368	end: 4.8857	delta: 1.0489
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 18.7088	end: 20.3854	delta: 1.6766
P4 start: 24.6789	end: 26.0996	delta: 1.4207
P5 start: 35.3211	end: 39.6146	delta: 4.2935
P6 start: 49.3299	end: 55.1143	delta: 5.7844
P7 start: 63.8368	end: 70.6701	delta: 6.8333
P8 start: 78.7088	end: 86.0996	delta: 7.3908

H3: 1.03253e-07	H19: -2.39656e-06	H19f: -1.26135e-07
H5: 4.95615e-07	H21: -2.65508e-07	H21f: -1.26432e-08
H7: 7.08021e-07	H23: 0.796657	H23f: 0.0346373
H9: 1.72088e-08	H25: -0.588444	H25f: -0.0235378
H11: 2.39359e-07	H27: -2.98287e-07	H27f: -1.10477e-08
H13: 7.74398e-07	H29: 0.168852	H29f: 0.00582248
H15: 1.03253e-07	H31: 0.109851	H31f: 0.00354359
H17: 1.74923e-06	H33: 2.86293e-07	H33f: 8.67553e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.1912
 c3ed = 0.0959
 c4sd = -0.0316
 c4ed = -0.0004
 c5sd = 0.0316
 c5ed = -0.0959
 varx = 4.1878%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 50/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.5
Actual Amplitude:	0.5
Actual Power:	0.25
Distortion 2H-22H:	0.000121201%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 3.759	end: 4.8335	delta: 1.0745
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 18.6281	end: 20.3337	delta: 1.7056
P4 start: 24.7057	end: 26.1736	delta: 1.4678
P5 start: 35.2943	end: 39.6663	delta: 4.3721
P6 start: 49.2676	end: 55.1665	delta: 5.8988
P7 start: 63.759	end: 70.7324	delta: 6.9734
P8 start: 78.6281	end: 86.1736	delta: 7.5455

H3: -1.01188e-07	H19: 3.19541e-08	H19f: 1.68179e-09
H5: 1.21426e-07	H21: -1.44554e-07	H21f: -6.88354e-09
H7: -5.85445e-07	H23: 0.785322	H23f: 0.0341444
H9: 1.18053e-07	H25: -0.577082	H25f: -0.0230833
H11: 5.51935e-07	H27: 1.57404e-07	H27f: 5.82976e-09
H13: -2.56862e-07	H29: 0.174423	H29f: 0.00601458
H15: -1.41663e-07	H31: 0.113681	H31f: 0.00366713
H17: 8.21408e-07	H33: -1.51782e-07	H33f: -4.59945e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1995
c3ed = 0.0886
c4sd = -0.0492
c4ed = 0.0012
c5sd = 0.0492
c5ed = -0.0886
varx = 4.1215%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 51/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.51
Actual Amplitude:	0.51
Actual Power:	0.2601
Distortion 2H-22H:	0.000294103%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 3.681	end: 4.7815	delta: 1.1005
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 18.5471	end: 20.2816	delta: 1.7345
P4 start: 24.7317	end: 26.2475	delta: 1.5159
P5 start: 35.2684	end: 39.7184	delta: 4.4501
P6 start: 49.2055	end: 55.2185	delta: 6.013
P7 start: 63.681	end: 70.7945	delta: 7.1134
P8 start: 78.5471	end: 86.2475	delta: 7.7004

H3: 1.48806e-07	H19: -1.17478e-06	H19f: -6.18307e-08
H5: 2.97612e-07	H21: 8.50319e-08	H21f: 4.04914e-09
H7: -1.10542e-06	H23: 0.773758	H23f: 0.0336416
H9: -8.26699e-08	H25: -0.565697	H25f: -0.0226279
H11: -1.35278e-06	H27: 1.76363e-07	H27f: 6.53195e-09
H13: 1.30491e-06	H29: 0.17999	H29f: 0.00620654
H15: 1.28965e-07	H31: 0.117523	H31f: 0.00379105
H17: 1.54058e-06	H33: 2.25463e-08	H33f: 6.83223e-10

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1846
c3ed = 0.0954
c4sd = -0.0821
c4ed = -0.0208
c5sd = 0.0821
c5ed = -0.0954
varx = 4.0544%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 52/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.52
Actual Amplitude:	0.52
Actual Power:	0.2704
Distortion 2H-22H:	0.000107804%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 3.6029	end: 4.7296	delta: 1.1268
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 18.4658	end: 20.229	delta: 1.7632
P4 start: 24.7565	end: 26.3215	delta: 1.565
P5 start: 35.2435	end: 39.771	delta: 4.5275
P6 start: 49.1436	end: 55.2704	delta: 6.1268
P7 start: 63.6029	end: 70.8564	delta: 7.2535
P8 start: 78.4658	end: 86.3215	delta: 7.8557

H3: 4.86481e-08	H19: 2.30438e-07	H19f: 1.21283e-08
H5: -4.9621e-07	H21: 3.05788e-07	H21f: 1.45613e-08
H7: -4.58682e-07	H23: 0.761961	H23f: 0.0331287
H9: 2.4324e-07	H25: -0.554303	H25f: -0.0221721
H11: -5.57242e-07	H27: 2.16214e-07	H27f: 8.00791e-09
H13: 2.2453e-07	H29: 0.185556	H29f: 0.00639847
H15: 1.36215e-07	H31: 0.121372	H31f: 0.00391524
H17: 3.43398e-07	H33: -6.19157e-08	H33f: -1.87623e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1928
c3ed = 0.0877
c4sd = -0.1021
c4ed = -0.0199
c5sd = 0.1021
c5ed = -0.0877
varx = 3.9864%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.53
Actual Amplitude:	0.53
Actual Power:	0.2809
Distortion 2H-22H:	0.000462568%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 3.5245	end: 4.6779	delta: 1.1534
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 18.3843	end: 20.1761	delta: 1.7918
P4 start: 24.7805	end: 26.3955	delta: 1.6151
P5 start: 35.2195	end: 39.8239	delta: 4.6043
P6 start: 49.0819	end: 55.3221	delta: 6.2402
P7 start: 63.5245	end: 70.9181	delta: 7.3936
P8 start: 78.3843	end: 86.3955	delta: 8.0112

H3: 9.54604e-08	H19: -3.24063e-06	H19f: -1.70559e-07
H5: 8.59143e-07	H21: -6.8186e-08	H21f: -3.24695e-09
H7: 4.09116e-07	H23: 0.749944	H23f: 0.0326063
H9: 3.18201e-08	H25: -0.542898	H25f: -0.0217159
H11: 2.08277e-07	H27: -1.2728e-07	H27f: -4.71409e-09
H13: 2.90787e-06	H29: 0.191105	H29f: 0.00658983
H15: -3.53203e-07	H31: 0.125229	H31f: 0.00403963
H17: 1.16237e-06	H33: -3.9052e-08	H33f: -1.18339e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.204
c3ed = 0.078
c4sd = -0.1213
c4ed = -0.0161
c5sd = 0.1213
c5ed = -0.078
varx = 3.9176%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.54
Actual Amplitude:	0.540001
Actual Power:	0.291601
Distortion 2H-22H:	0.000311496%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 3.4459	end: 4.6262	delta: 1.1803
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 18.3025	end: 20.1227	delta: 1.8202
P4 start: 24.8032	end: 26.4696	delta: 1.6663
P5 start: 35.1968	end: 39.8773	delta: 4.6805
P6 start: 49.0204	end: 55.3738	delta: 6.3533
P7 start: 63.4459	end: 70.9796	delta: 7.5336
P8 start: 78.3026	end: 86.4696	delta: 8.167

H3: 2.34231e-07	H19: -1.10952e-06	H19f: -5.83956e-08
H5: -1.40539e-06	H21: -6.69232e-08	H21f: -3.18682e-09
H7: -4.6177e-07	H23: 0.73769	H23f: 0.0320735
H9: 7.80771e-08	H25: -0.531512	H25f: -0.0212605
H11: -1.25207e-06	H27: 8.32822e-08	H27f: 3.08453e-09
H13: 2.70267e-07	H29: 0.196647	H29f: 0.00678095
H15: -4.87201e-07	H31: 0.129087	H31f: 0.0041641
H17: 2.08328e-06	H33: -1.27762e-07	H33f: -3.87159e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2107
c3ed = 0.0707
c4sd = -0.1447
c4ed = -0.0172
c5sd = 0.1447
c5ed = -0.0707
varx = 3.848%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 55/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.55
Actual Amplitude:	0.55
Actual Power:	0.3025
Distortion 2H-22H:	0.000763062%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	3.3671	end:	4.5748	delta:	1.2077
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	18.2205	end:	20.069	delta:	1.8485
P4 start:	24.8251	end:	26.5437	delta:	1.7186
P5 start:	35.1749	end:	39.931	delta:	4.7561
P6 start:	48.9592	end:	55.4252	delta:	6.466
P7 start:	63.3671	end:	71.0408	delta:	7.6737
P8 start:	78.2205	end:	86.5437	delta:	8.3232

H3: -4.59945e-08	H19: -5.83889e-06	H19f: -3.0731e-07
H5: 2.5389e-06	H21: 2.23402e-07	H21f: 1.06382e-08
H7: 1.51782e-06	H23: 0.725241	H23f: 0.0315322
H9: -1.37984e-07	H25: -0.520115	H25f: -0.0208046
H11: 1.35475e-06	H27: -3.0663e-07	H27f: -1.13567e-08
H13: 3.66187e-06	H29: 0.202156	H29f: 0.00697088
H15: -2.75967e-08	H31: 0.132936	H31f: 0.00428827
H17: -2.59734e-07	H33: 1.04533e-07	H33f: 3.16767e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2204
c3ed = 0.0614
c4sd = -0.1673
c4ed = -0.0154
c5sd = 0.1673
c5ed = -0.0614
varx = 3.7777%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 56/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.56
Actual Amplitude:	0.56
Actual Power:	0.3136
Distortion 2H-22H:	0.000153883%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	3.2881	end:	4.5235	delta:	1.2354
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	18.1381	end:	20.0147	delta:	1.8766
P4 start:	24.8457	end:	26.6178	delta:	1.7721
P5 start:	35.1543	end:	39.9853	delta:	4.831
P6 start:	48.8982	end:	55.4765	delta:	6.5783
P7 start:	63.2881	end:	71.1018	delta:	7.8137
P8 start:	78.1381	end:	86.6178	delta:	8.4797

H3: -4.51732e-08	H19: -1.12695e-06	H19f: -5.93133e-08
H5: 1.08416e-07	H21: 9.03464e-08	H21f: 4.30221e-09
H7: 2.51679e-07	H23: 0.712553	H23f: 0.0309806
H9: 9.03464e-08	H25: -0.508761	H25f: -0.0203505
H11: -1.6016e-07	H27: 1.00385e-08	H27f: 3.71796e-10
H13: 4.16984e-08	H29: 0.207651	H29f: 0.00716038
H15: 0.0	H31: 0.136784	H31f: 0.0044124
H17: 9.88496e-07	H33: 0.0	H33f: 0.0

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2681
c3ed = 0.0283
c4sd = -0.168
c4ed = 0.024
c5sd = 0.168
c5ed = -0.0283
varx = 3.7067%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 57/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.57
Actual Amplitude:	0.57
Actual Power:	0.3249
Distortion 2H-22H:	0.000421848%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	3.2089	end:	4.4724	delta:	1.2635
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	18.0554	end:	19.96	delta:	1.9045
P4 start:	24.8653	end:	26.6919	delta:	1.8266
P5 start:	35.1347	end:	40.04	delta:	4.9054
P6 start:	48.8375	end:	55.5276	delta:	6.6902
P7 start:	63.2089	end:	71.1625	delta:	7.9536
P8 start:	78.0554	end:	86.6919	delta:	8.6365

H3: 1.77523e-07	H19: -2.83102e-06	H19f: -1.49001e-07
H5: 8.25481e-07	H21: -1.52162e-07	H21f: -7.24583e-09
H7: 6.0865e-07	H23: 0.699673	H23f: 0.0304206
H9: -2.95871e-08	H25: -0.497414	H25f: -0.0198966
H11: 1.01672e-06	H27: -1.77523e-07	H27f: -6.57492e-09
H13: 2.51946e-06	H29: 0.213103	H29f: 0.00734839
H15: 1.42018e-07	H31: 0.140617	H31f: 0.00453602
H17: -1.12779e-06	H33: 2.17869e-07	H33f: 6.60209e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2074
c3ed = 0.0617
c4sd = -0.2364
c4ed = -0.0453
c5sd = 0.2364
c5ed = -0.0617
varx = 3.6349%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 58/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.58
Actual Amplitude:	0.58
Actual Power:	0.3364
Distortion 2H-22H:	0.000101009%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 3.1295	end: 4.4214	delta: 1.2919
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.9724	end: 19.9047	delta: 1.9323
P4 start: 24.8837	end: 26.7661	delta: 1.8824
P5 start: 35.1163	end: 40.0953	delta: 4.979
P6 start: 48.777	end: 55.5786	delta: 6.8016
P7 start: 63.1295	end: 71.223	delta: 8.0935
P8 start: 77.9724	end: 86.7661	delta: 8.7937

H3: 4.36155e-08	H19: -2.61693e-07	H19f: -1.37733e-08
H5: 6.01894e-07	H21: -9.96926e-08	H21f: -4.74727e-09
H7: -4.48617e-07	H23: 0.686576	H23f: 0.0298511
H9: -5.8154e-08	H25: -0.486112	H25f: -0.0194445
H11: 4.75806e-08	H27: -2.9077e-08	H27f: -1.07693e-09
H13: -4.42865e-07	H29: 0.218522	H29f: 0.00753523
H15: 4.36155e-08	H31: 0.144436	H31f: 0.00465921
H17: 4.1563e-07	H33: -7.13708e-08	H33f: -2.16275e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2823
c3ed = 0.0114
c4sd = -0.223
c4ed = 0.0208
c5sd = 0.223
c5ed = -0.0114
varx = 3.5626%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 59/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.59
Actual Amplitude:	0.590001
Actual Power:	0.348101
Distortion 2H-22H:	0.000216465%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	3.0497	end:	4.3706	delta:	1.3209
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	17.889	end:	19.849	delta:	1.96
P4 start:	24.901	end:	26.8404	delta:	1.9393
P5 start:	35.099	end:	40.151	delta:	5.052
P6 start:	48.7169	end:	55.6294	delta:	6.9125
P7 start:	63.0497	end:	71.2831	delta:	8.2334
P8 start:	77.889	end:	86.8404	delta:	8.9513

H3: -2.14381e-07	H19: -1.31337e-06	H19f: -6.91246e-08
H5: 5.91692e-07	H21: -4.90014e-08	H21f: -2.3334e-09
H7: 4.59388e-07	H23: 0.673288	H23f: 0.0292734
H9: -1.42921e-08	H25: -0.474839	H25f: -0.0189935
H11: -4.56047e-07	H27: -2.66785e-07	H27f: -9.88094e-09
H13: 1.34565e-06	H29: 0.223888	H29f: 0.00772027
H15: 1.37204e-07	H31: 0.148232	H31f: 0.00478169
H17: 5.59913e-07	H33: 2.76747e-07	H33f: 8.38626e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2664
c3ed = 0.0166
c4sd = -0.2666
c4ed = -0.0042
c5sd = 0.2666
c5ed = -0.0166
varx = 3.4895%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 60/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.6
Actual Amplitude:	0.6
Actual Power:	0.36
Distortion 2H-22H:	0.000610593%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 2.9698	end: 4.32	delta: 1.3502
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.8053	end: 19.7928	delta: 1.9875
P4 start: 24.9172	end: 26.9146	delta: 1.9974
P5 start: 35.0828	end: 40.2072	delta: 5.1244
P6 start: 48.657	end: 55.68	delta: 7.023
P7 start: 62.9698	end: 71.343	delta: 8.3732
P8 start: 77.8053	end: 86.9146	delta: 9.1094

H3: 0.0	H19: -3.38181e-06	H19f: -1.7799e-07
H5: 2.22614e-06	H21: -3.49339e-07	H21f: -1.66352e-08
H7: 2.43935e-06	H23: 0.65981	H23f: 0.0286874
H9: -1.68647e-07	H25: -0.463607	H25f: -0.0185443
H11: 1.46033e-06	H27: -2.34231e-07	H27f: -8.67524e-09
H13: 3.18158e-06	H29: 0.229201	H29f: 0.00790349
H15: 4.30049e-07	H31: 0.152002	H31f: 0.00490328
H17: -1.5327e-06	H33: 4.33115e-07	H33f: 1.31247e-08

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3513
c3ed = -0.0403
c4sd = -0.2497
c4ed = 0.0713
c5sd = 0.2497
c5ed = 0.0403
varx = 3.4159%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.61
Actual Amplitude:	0.61
Actual Power:	0.3721
Distortion 2H-22H:	0.000177216%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total walking events:	56
Delta Friendly:	Yes

P1 start: 2.8896	end: 4.2696	delta: 1.38
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.7211	end: 19.736	delta: 2.0148
P4 start: 24.9321	end: 26.9889	delta: 2.0568
P5 start: 35.0679	end: 40.264	delta: 5.1962
P6 start: 48.5975	end: 55.7304	delta: 7.1329
P7 start: 62.8896	end: 71.4025	delta: 8.5129
P8 start: 77.7211	end: 86.9889	delta: 9.2678

H3: 2.90293e-07	H19: -3.53591e-07	H19f: -1.861e-08
H5: -8.21116e-07	H21: -1.18487e-08	H21f: -5.64224e-10
H7: 6.75377e-07	H23: 0.646123	H23f: 0.0280923
H9: 1.38235e-08	H25: -0.452449	H25f: -0.018098
H11: -1.24411e-07	H27: 1.56666e-07	H27f: 5.80246e-09
H13: -5.74207e-08	H29: 0.234464	H29f: 0.00808495
H15: -2.15647e-07	H31: 0.155746	H31f: 0.00502406
H17: 1.3173e-06	H33: -2.33743e-07	H33f: -7.08311e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2874
c3ed = -0.0062
c4sd = -0.3257
c4ed = -0.0026
c5sd = 0.3257
c5ed = 0.0062
varx = 3.3417%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.62
 Actual Amplitude: 0.62
 Actual Power: 0.3844
 Distortion 2H-22H: 0.0004397%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 2.8091	end: 4.2194	delta: 1.4103
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.6366	end: 19.6787	delta: 2.0421
P4 start: 24.9459	end: 27.0633	delta: 2.1174
P5 start: 35.0541	end: 40.3213	delta: 5.2672
P6 start: 48.5384	end: 55.7806	delta: 7.2422
P7 start: 62.8091	end: 71.4616	delta: 8.6525
P8 start: 77.6366	end: 87.0633	delta: 9.4268

H3: 2.04008e-07	H19: -1.18539e-06	H19f: -6.23892e-08
H5: 3.28045e-06	H21: -5.3625e-07	H21f: -2.55357e-08
H7: 2.09837e-06	H23: 0.632265	H23f: 0.0274898
H9: -1.90408e-07	H25: -0.441333	H25f: -0.0176533
H11: -8.45706e-07	H27: -4.44284e-07	H27f: -1.6455e-08
H13: 1.20522e-06	H29: 0.239657	H29f: 0.00826403
H15: 2.6113e-07	H31: 0.159451	H31f: 0.00514357
H17: -4.03216e-07	H33: -1.29823e-07	H33f: -3.93404e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.2894
 c3ed = -0.0128
 c4sd = -0.3626
 c4ed = -0.0107
 c5sd = 0.3626
 c5ed = 0.0128
 varx = 3.267%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 63/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.63
Actual Amplitude:	0.63
Actual Power:	0.3969
Distortion 2H-22H:	5.97291e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	2.7283	end:	4.1693	delta:	1.441
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	17.5516	end:	19.6207	delta:	2.0691
P4 start:	24.9584	end:	27.1377	delta:	2.1793
P5 start:	35.0416	end:	40.3793	delta:	5.3377
P6 start:	48.4796	end:	55.8307	delta:	7.351
P7 start:	62.7283	end:	71.5204	delta:	8.792
P8 start:	77.5516	end:	87.1377	delta:	9.5862

H3: -2.0077e-07	H19: -1.14122e-07	H19f: -6.00641e-09
H5: 1.92739e-07	H21: -1.26198e-07	H21f: -6.00944e-09
H7: -5.16265e-08	H23: 0.618212	H23f: 0.0268788
H9: 4.0154e-08	H25: -0.430299	H25f: -0.017212
H11: -4.38043e-08	H27: -3.56924e-08	H27f: -1.32194e-09
H13: 3.2432e-07	H29: 0.244784	H29f: 0.00844083
H15: -1.52585e-07	H31: 0.16312	H31f: 0.00526194
H17: 3.40128e-07	H33: -4.0154e-08	H33f: -1.21679e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3909
c3ed = -0.0809
c4sd = -0.34
c4ed = 0.0802
c5sd = 0.34
c5ed = 0.0809
varx = 3.1917%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 64/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.64
Actual Amplitude:	0.64
Actual Power:	0.409601
Distortion 2H-22H:	7.85547e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 2.6473	end: 4.1196	delta: 1.4723
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.4661	end: 19.5621	delta: 2.0961
P4 start: 24.9697	end: 27.2122	delta: 2.2425
P5 start: 35.0304	end: 40.4379	delta: 5.4075
P6 start: 48.4213	end: 55.8804	delta: 7.4592
P7 start: 62.6473	end: 71.5787	delta: 8.9314
P8 start: 77.4661	end: 87.2122	delta: 9.7461

H3: 2.37159e-07	H19: -5.49211e-07	H19f: -2.89058e-08
H5: 0.0	H21: -1.12933e-07	H21f: -5.37776e-09
H7: 1.86339e-07	H23: 0.603987	H23f: 0.0262603
H9: -3.95265e-08	H25: -0.419335	H25f: -0.0167734
H11: -2.15599e-08	H27: -5.2702e-08	H27f: -1.95193e-09
H13: 2.73645e-07	H29: 0.249832	H29f: 0.0086149
H15: 2.21349e-07	H31: 0.166744	H31f: 0.00537883
H17: 2.92961e-07	H33: -1.43733e-08	H33f: -4.35554e-10

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2779
c3ed = -0.0176
c4sd = -0.4506
c4ed = -0.0438
c5sd = 0.4506
c5ed = 0.0176
varx = 3.116%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 65/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.65
Actual Amplitude:	0.65
Actual Power:	0.4225
Distortion 2H-22H:	8.49427e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total weighting events:	56
Delta Friendly:	Yes

P1 start: 2.566	end: 4.07	delta: 1.504
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.3801	end: 19.5029	delta: 2.1228
P4 start: 24.9796	end: 27.2866	delta: 2.307
P5 start: 35.0204	end: 40.4971	delta: 5.4767
P6 start: 48.3634	end: 55.93	delta: 7.5666
P7 start: 62.566	end: 71.6366	delta: 9.0707
P8 start: 77.3801	end: 87.2866	delta: 9.9065

H3: 1.55674e-07	H19: 5.53052e-07	H19f: 2.9108e-08
H5: -3.26915e-07	H21: 4.44782e-08	H21f: 2.11801e-09
H7: 5.0038e-08	H23: 0.589587	H23f: 0.0256342
H9: -4.41076e-07	H25: -0.408458	H25f: -0.0163383
H11: -1.48598e-07	H27: -3.45942e-08	H27f: -1.28127e-09
H13: -2.33511e-07	H29: 0.2548	H29f: 0.00878621
H15: 9.34043e-08	H31: 0.170318	H31f: 0.00549414
H17: -1.37359e-08	H33: -2.40587e-07	H33f: -7.29051e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2923
c3ed = -0.0329
c4sd = -0.4846
c4ed = -0.0409
c5sd = 0.4846
c5ed = 0.0329
varx = 3.0398%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.66
Actual Amplitude:	0.66
Actual Power:	0.4356
Distortion 2H-22H:	2.97567e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total walking events:	56
Delta Friendly:	Yes

P1 start: 2.4843	end: 4.0207	delta: 1.5364
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.2936	end: 19.4431	delta: 2.1495
P4 start: 24.9883	end: 27.3612	delta: 2.3729
P5 start: 35.0117	end: 40.5569	delta: 5.5452
P6 start: 48.3059	end: 55.9793	delta: 7.6734
P7 start: 62.4843	end: 71.6941	delta: 9.2098
P8 start: 77.2936	end: 87.3612	delta: 10.0676

H3: 7.66576e-08	H19: -6.05191e-08	H19f: -3.18522e-09
H5: 2.06975e-08	H21: -1.09511e-07	H21f: -5.2148e-09
H7: 6.57065e-08	H23: 0.575019	H23f: 0.0250008
H9: 1.14986e-07	H25: -0.397669	H25f: -0.0159068
H11: 4.18132e-08	H27: -3.0663e-07	H27f: -1.13567e-08
H13: 8.8451e-09	H29: 0.259679	H29f: 0.00895444
H15: -1.53315e-08	H31: 0.17384	H31f: 0.00560774
H17: 6.7639e-08	H33: 1.35893e-07	H33f: 4.11797e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3977
c3ed = -0.1043
c4sd = -0.4643
c4ed = 0.0525
c5sd = 0.4643
c5ed = 0.1043
varx = 2.9632%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.67
Actual Amplitude:	0.67
Actual Power:	0.4489
Distortion 2H-22H:	3.40632e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 2.4023	end: 3.9716	delta: 1.5693
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 17.2065	end: 19.3825	delta: 2.176
P4 start: 24.9957	end: 27.4358	delta: 2.4401
P5 start: 35.0043	end: 40.6175	delta: 5.6132
P6 start: 48.249	end: 56.0284	delta: 7.7795
P7 start: 62.4023	end: 71.751	delta: 9.3487
P8 start: 77.2065	end: 87.4358	delta: 10.2293

H3: -3.77567e-08	H19: -2.2654e-07	H19f: -1.19232e-08
H5: -9.06161e-08	H21: 3.23629e-08	H21f: 1.54109e-09
H7: 1.45633e-07	H23: 0.560282	H23f: 0.0243601
H9: 1.25856e-08	H25: -0.386982	H25f: -0.0154793
H11: 2.05946e-08	H27: -7.55134e-08	H27f: -2.79679e-09
H13: -7.84177e-08	H29: 0.264464	H29f: 0.00911945
H15: -2.2654e-08	H31: 0.177302	H31f: 0.00571942
H17: 1.59911e-07	H33: 5.83512e-08	H33f: 1.76822e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3492
c3ed = -0.0816
c4sd = -0.5402
c4ed = -0.0085
c5sd = 0.5402
c5ed = 0.0816
varx = 2.8862%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.68
Actual Amplitude:	0.68
Actual Power:	0.4624
Distortion 2H-22H:	8.77882e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	2.32	end:	3.9227	delta:	1.6027
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	17.1188	end:	19.3212	delta:	2.2024
P4 start:	25.0017	end:	27.5104	delta:	2.5087
P5 start:	34.9983	end:	40.6788	delta:	5.6805
P6 start:	48.1925	end:	56.0773	delta:	7.8847
P7 start:	62.32	end:	71.8075	delta:	9.4874
P8 start:	77.1188	end:	87.5104	delta:	10.3916

H3: 1.11604e-07	H19: -4.93409e-07	H19f: -2.59689e-08
H5: -2.67851e-07	H21: 9.56609e-08	H21f: 4.55528e-09
H7: 3.50757e-07	H23: 0.545384	H23f: 0.0237123
H9: 4.9602e-08	H25: -0.376403	H25f: -0.0150561
H11: -3.85542e-07	H27: -8.26699e-08	H27f: -3.06185e-09
H13: 3.00473e-07	H29: 0.269149	H29f: 0.00928099
H15: 2.23209e-08	H31: 0.180701	H31f: 0.00582905
H17: 2.62599e-07	H33: -1.01459e-07	H33f: -3.0745e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4092
c3ed = -0.126
c4sd = -0.5511
c4ed = 0.0385
c5sd = 0.5511
c5ed = 0.126
varx = 2.8088%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 69/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.69
Actual Amplitude:	0.69
Actual Power:	0.4761
Distortion 2H-22H:	0.000911664%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	2.2374	end:	3.8742	delta:	1.6368
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	17.0305	end:	19.2592	delta:	2.2286
P4 start:	25.0065	end:	27.5851	delta:	2.5787
P5 start:	34.9935	end:	40.7408	delta:	5.7473
P6 start:	48.1367	end:	56.1258	delta:	7.9891
P7 start:	62.2374	end:	71.8633	delta:	9.6259
P8 start:	77.0305	end:	87.5851	delta:	10.5546

H3: 3.29961e-07	H19: -5.60355e-06	H19f: -2.94923e-07
H5: 1.73779e-06	H21: -1.25699e-07	H21f: -5.98568e-09
H7: 1.25699e-06	H23: 0.530338	H23f: 0.0230582
H9: -1.22208e-08	H25: -0.365928	H25f: -0.0146371
H11: 2.39972e-07	H27: -8.14718e-08	H27f: -3.01747e-09
H13: 6.7092e-06	H29: 0.273723	H29f: 0.00943871
H15: 1.90644e-07	H31: 0.184031	H31f: 0.00593649
H17: 1.3716e-06	H33: -1.53315e-07	H33f: -4.64591e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3789
c3ed = -0.1151
c4sd = -0.6192
c4ed = -0.0054
c5sd = 0.6192
c5ed = 0.1151
varx = 2.7312%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 70/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.7
Actual Amplitude:	0.7
Actual Power:	0.49
Distortion 2H-22H:	3.68713e-05%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 2.1544	end: 3.8259	delta: 1.6714
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.9415	end: 19.1961	delta: 2.2547
P4 start: 25.0096	end: 27.6599	delta: 2.6503
P5 start: 34.9904	end: 40.8039	delta: 5.8135
P6 start: 48.0815	end: 56.1742	delta: 8.0926
P7 start: 62.1544	end: 71.9185	delta: 9.764
P8 start: 76.9415	end: 87.6599	delta: 10.7184

H3: 1.08416e-07	H19: -7.98853e-08	H19f: -4.20449e-09
H5: -2.60198e-07	H21: 1.44554e-07	H21f: 6.88354e-09
H7: 1.39392e-07	H23: 0.51511	H23f: 0.0223961
H9: -8.43233e-08	H25: -0.355605	H25f: -0.0142242
H11: 9.85597e-09	H27: 1.92739e-07	H27f: 7.13848e-09
H13: -3.33587e-08	H29: 0.2782	H29f: 0.00959309
H15: 0.0	H31: 0.187284	H31f: 0.00604143
H17: -3.82644e-08	H33: 1.34698e-07	H33f: 4.08177e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3773
c3ed = -0.1225
c4sd = -0.6718
c4ed = -0.0214
c5sd = 0.6718
c5ed = 0.1225
varx = 2.6531%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.71
Actual Amplitude:	0.71
Actual Power:	0.5041
Distortion 2H-22H:	0.000823558%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	2.0711	end:	3.7778	delta:	1.7068
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	16.8517	end:	19.1324	delta:	2.2807
P4 start:	25.0115	end:	27.7347	delta:	2.7231
P5 start:	34.9885	end:	40.8676	delta:	5.8792
P6 start:	48.027	end:	56.2222	delta:	8.1952
P7 start:	62.0711	end:	71.973	delta:	9.902
P8 start:	76.8517	end:	87.7347	delta:	10.883

H3:	2.49407e-07	H19:	-6.32331e-06	H19f:	-3.32806e-07
H5:	1.19715e-06	H21:	-1.32338e-07	H21f:	-6.30183e-09
H7:	3.71057e-06	H23:	0.499756	H23f:	0.0217285
H9:	4.75061e-08	H25:	-0.345389	H25f:	-0.0138156
H11:	7.77373e-07	H27:	-2.92954e-07	H27f:	-1.08502e-08
H13:	3.34644e-06	H29:	0.282542	H29f:	0.00974282
H15:	3.56296e-08	H31:	0.19046	H31f:	0.00614387
H17:	8.67685e-07	H33:	6.4781e-08	H33f:	1.96306e-09

c2sd =	0.0
c2ed =	0.0
c3sd =	-0.3842
c3ed =	-0.1354
c4sd =	-0.7207
c4ed =	-0.0294
c5sd =	0.7207
c5ed =	0.1354
varx =	2.5749%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.72
Actual Amplitude:	0.72
Actual Power:	0.5184
Distortion 2H-22H:	0.000163593%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.9874	end: 3.73	delta: 1.7426
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.7611	end: 19.0675	delta: 2.3064
P4 start: 25.0119	end: 27.8096	delta: 2.7977
P5 start: 34.9882	end: 40.9326	delta: 5.9444
P6 start: 47.9732	end: 56.27	delta: 8.2968
P7 start: 61.9874	end: 72.0268	delta: 10.0394
P8 start: 76.7611	end: 87.8096	delta: 11.0485

H3: 2.10808e-07	H19: -1.06514e-06	H19f: -5.60598e-08
H5: 1.89727e-07	H21: -1.20462e-07	H21f: -5.73628e-09
H7: -1.80693e-07	H23: 0.484223	H23f: 0.0210532
H9: -1.5225e-07	H25: -0.335345	H25f: -0.0134138
H11: -2.87466e-08	H27: 9.36926e-08	H27f: 3.4701e-09
H13: 1.0135e-06	H29: 0.28678	H29f: 0.00988896
H15: 3.23239e-07	H31: 0.193546	H31f: 0.00624342
H17: 5.0842e-07	H33: -1.11792e-07	H33f: -3.38764e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.394
c3ed = -0.1507
c4sd = -0.77
c4ed = -0.0354
c5sd = 0.77
c5ed = 0.1507
varx = 2.4963%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.73
Actual Amplitude:	0.73
Actual Power:	0.5329
Distortion 2H-22H:	0.000533878%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.9033	end: 3.6825	delta: 1.7793
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.6696	end: 19.0017	delta: 2.3321
P4 start: 25.0108	end: 27.8845	delta: 2.8737
P5 start: 34.9892	end: 40.9983	delta: 6.0091
P6 start: 47.9202	end: 56.3175	delta: 8.3973
P7 start: 61.9033	end: 72.0798	delta: 10.1765
P8 start: 76.6696	end: 87.8845	delta: 11.2148

H3: 3.11881e-07	H19: -2.97655e-06	H19f: -1.5666e-07
H5: -2.41188e-06	H21: -1.9802e-07	H21f: -9.4295e-09
H7: 1.75247e-06	H23: 0.468561	H23f: 0.0203722
H9: -1.0396e-07	H25: -0.325436	H25f: -0.0130174
H11: 7.37173e-07	H27: 1.15511e-08	H27f: 4.2782e-10
H13: 2.95087e-06	H29: 0.290874	H29f: 0.0100301
H15: 2.49505e-07	H31: 0.196544	H31f: 0.00634013
H17: 1.13745e-06	H33: -1.89019e-08	H33f: -5.72784e-10

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3621
c3ed = -0.1407
c4sd = -0.8468
c4ed = -0.0838
c5sd = 0.8468
c5ed = 0.1407
varx = 2.4176%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 74/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.74
Actual Amplitude:	0.74
Actual Power:	0.5476
Distortion 2H-22H:	0.000280089%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.8188	end: 3.6353	delta: 1.8165
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.5772	end: 18.9347	delta: 2.3576
P4 start: 25.0082	end: 27.9595	delta: 2.9513
P5 start: 34.9918	end: 41.0653	delta: 6.0734
P6 start: 47.8681	end: 56.3647	delta: 8.4966
P7 start: 61.8188	end: 72.1319	delta: 10.3131
P8 start: 76.5772	end: 87.9595	delta: 11.3823

H3: 3.41851e-07	H19: -1.25226e-06	H19f: -6.59082e-08
H5: 6.76866e-07	H21: -4.88359e-08	H21f: -2.32552e-09
H7: 2.28552e-06	H23: 0.452741	H23f: 0.0196844
H9: -4.55802e-08	H25: -0.315698	H25f: -0.0126279
H11: -3.35636e-07	H27: -4.55802e-08	H27f: -1.68816e-09
H13: 4.96999e-07	H29: 0.294844	H29f: 0.010167
H15: 0.0	H31: 0.19944	H31f: 0.00643355
H17: 3.3783e-07	H33: 5.90471e-08	H33f: 1.7893e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.331
c3ed = -0.1318
c4sd = -0.9253
c4ed = -0.1324
c5sd = 0.9253
c5ed = 0.1318
varx = 2.3387%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 75/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.75
Actual Amplitude:	0.75
Actual Power:	0.562499
Distortion 2H-22H:	0.000559985%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.734	end: 3.5884	delta: 1.8544
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.4837	end: 18.8667	delta: 2.383
P4 start: 25.004	end: 28.0345	delta: 3.0305
P5 start: 34.996	end: 41.1333	delta: 6.1374
P6 start: 47.8169	end: 56.4116	delta: 8.5947
P7 start: 61.734	end: 72.1831	delta: 10.4491
P8 start: 76.4837	end: 88.0345	delta: 11.5508

H3: -2.69835e-07	H19: -3.60016e-06	H19f: -1.89482e-07
H5: 2.18566e-06	H21: -5.78217e-08	H21f: -2.75342e-09
H7: 2.90554e-06	H23: 0.436783	H23f: 0.0189905
H9: 1.34917e-07	H25: -0.306131	H25f: -0.0122452
H11: -1.06707e-06	H27: -2.47349e-07	H27f: -9.16106e-09
H13: 1.42442e-06	H29: 0.298666	H29f: 0.0102988
H15: -9.44422e-08	H31: 0.202232	H31f: 0.00652361
H17: 1.38092e-06	H33: 1.59448e-07	H33f: 4.83175e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4041
c3ed = -0.1874
c4sd = -0.9419
c4ed = -0.0776
c5sd = 0.9419
c5ed = 0.1874
varx = 2.2596%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 76/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.76
Actual Amplitude:	0.76
Actual Power:	0.5776
Distortion 2H-22H:	0.00058963%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.6487	end: 3.5417	delta: 1.893
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.3891	end: 18.7973	delta: 2.4081
P4 start: 24.9983	end: 28.1097	delta: 3.1113
P5 start: 35.0017	end: 41.2027	delta: 6.2011
P6 start: 47.7668	end: 56.4583	delta: 8.6915
P7 start: 61.6487	end: 72.2332	delta: 10.5845
P8 start: 76.3891	end: 88.1097	delta: 11.7205

H3: 1.66428e-07	H19: -3.63688e-06	H19f: -1.91415e-07
H5: -1.79742e-07	H21: -7.60812e-08	H21f: -3.62291e-09
H7: 9.5577e-07	H23: 0.420672	H23f: 0.0182901
H9: -1.10952e-08	H25: -0.296753	H25f: -0.0118701
H11: 9.44098e-07	H27: -2.10808e-07	H27f: -7.80772e-09
H13: 4.42441e-06	H29: 0.302344	H29f: 0.0104257
H15: 0.0	H31: 0.204911	H31f: 0.00661004
H17: -3.05444e-07	H33: -1.87609e-07	H33f: -5.68513e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3304
c3ed = -0.1534
c4sd = -1.0509
c4ed = -0.1708
c5sd = 1.0509
c5ed = 0.1534
varx = 2.1804%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.77
Actual Amplitude:	0.77
Actual Power:	0.5929
Distortion 2H-22H:	0.000439594%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.563	end: 3.4953	delta: 1.9322
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.2933	end: 18.7265	delta: 2.4332
P4 start: 24.991	end: 28.1849	delta: 3.1939
P5 start: 35.009	end: 41.2735	delta: 6.2644
P6 start: 47.7178	end: 56.5047	delta: 8.7869
P7 start: 61.563	end: 72.2822	delta: 10.7192
P8 start: 76.2933	end: 88.1849	delta: 11.8915

H3: 2.95679e-07	H19: -2.73892e-06	H19f: -1.44154e-07
H5: -1.41926e-06	H21: -2.34666e-07	H21f: -1.11746e-08
H7: 2.01343e-06	H23: 0.404415	H23f: 0.0175833
H9: -3.28532e-08	H25: -0.287576	H25f: -0.011503
H11: 1.30816e-06	H27: -1.0221e-07	H27f: -3.78556e-09
H13: 1.34951e-06	H29: 0.305867	H29f: 0.0105471
H15: 1.0513e-07	H31: 0.207472	H31f: 0.00669263
H17: 1.43781e-06	H33: 7.16798e-08	H33f: 2.17212e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4216
c3ed = -0.2213
c4sd = -1.0612
c4ed = -0.1002
c5sd = 1.0612
c5ed = 0.2213
varx = 2.1012%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 78/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.78
Actual Amplitude:	0.78
Actual Power:	0.6084
Distortion 2H-22H:	0.000364176%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.477	end: 3.4491	delta: 1.9721
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.1962	end: 18.6543	delta: 2.4581
P4 start: 24.982	end: 28.2602	delta: 3.2782
P5 start: 35.018	end: 41.3458	delta: 6.3277
P6 start: 47.6701	end: 56.5509	delta: 8.8808
P7 start: 61.477	end: 72.3299	delta: 10.8529
P8 start: 76.1962	end: 88.2602	delta: 12.064

H3: 9.72962e-08	H19: -2.24293e-06	H19f: -1.18049e-07
H5: -6.42155e-07	H21: -4.63315e-08	H21f: -2.20626e-09
H7: 1.80693e-07	H23: 0.388008	H23f: 0.0168699
H9: 0.0	H25: -0.27861	H25f: -0.0111444
H11: 1.12333e-06	H27: 2.52249e-08	H27f: 9.34257e-10
H13: 2.54467e-06	H29: 0.309237	H29f: 0.0106633
H15: 0.0	H31: 0.209901	H31f: 0.00677101
H17: 1.94592e-07	H33: 1.00245e-07	H33f: 3.03771e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4193
c3ed = -0.2326
c4sd = -1.1312
c4ed = -0.1244
c5sd = 1.1312
c5ed = 0.2326
varx = 2.0219%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.79
Actual Amplitude:	0.79
Actual Power:	0.6241
Distortion 2H-22H:	0.000184153%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.3906	end: 3.4031	delta: 2.0126
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 16.0975	end: 18.5804	delta: 2.4828
P4 start: 24.9712	end: 28.3355	delta: 3.3643
P5 start: 35.0288	end: 41.4196	delta: 6.3909
P6 start: 47.6237	end: 56.5969	delta: 8.9731
P7 start: 61.3906	end: 72.3763	delta: 10.9857
P8 start: 76.0975	end: 88.3355	delta: 12.238

H3: 1.92129e-07	H19: -8.99973e-07	H19f: -4.7367e-08
H5: -1.72916e-07	H21: -1.55533e-07	H21f: -7.40634e-09
H7: 1.64682e-07	H23: 0.371449	H23f: 0.01615
H9: 1.70781e-07	H25: -0.269871	H25f: -0.0107948
H11: 2.18329e-07	H27: -1.74339e-07	H27f: -6.45701e-09
H13: 1.13061e-06	H29: 0.312438	H29f: 0.0107737
H15: 5.76387e-08	H31: 0.212194	H31f: 0.00684497
H17: 1.05106e-06	H33: -1.54285e-07	H33f: -4.67532e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3803
c3ed = -0.2219
c4sd = -1.2265
c4ed = -0.1866
c5sd = 1.2265
c5ed = 0.2219
varx = 1.9426%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 80/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.8
Actual Amplitude:	0.8
Actual Power:	0.64
Distortion 2H-22H:	0.000110174%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.3038	end: 3.3574	delta: 2.0536
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.9972	end: 18.5047	delta: 2.5075
P4 start: 24.9588	end: 28.411	delta: 3.4522
P5 start: 35.0412	end: 41.4953	delta: 6.4541
P6 start: 47.5789	end: 56.6426	delta: 9.0637
P7 start: 61.3038	end: 72.4211	delta: 11.1173
P8 start: 75.9972	end: 88.411	delta: 12.4138

H3: 1.26485e-07	H19: -6.98996e-07	H19f: -3.67893e-08
H5: 4.55346e-07	H21: 7.22771e-08	H21f: 3.44177e-09
H7: 6.50494e-07	H23: 0.354738	H23f: 0.0154234
H9: 1.89727e-07	H25: -0.261371	H25f: -0.0104548
H11: 6.89918e-08	H27: -2.5297e-07	H27f: -9.36926e-09
H13: 1.38647e-07	H29: 0.315467	H29f: 0.0108782
H15: -1.07512e-07	H31: 0.21434	H31f: 0.00691418
H17: 4.46418e-08	H33: -1.26485e-07	H33f: -3.83288e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4236
c3ed = -0.2626
c4sd = -1.274
c4ed = -0.1682
c5sd = 1.274
c5ed = 0.2626
varx = 1.8633%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.81
Actual Amplitude:	0.81
Actual Power:	0.6561
Distortion 2H-22H:	0.00035491%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.2166	end: 3.3118	delta: 2.0952
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.8952	end: 18.4271	delta: 2.5319
P4 start: 24.9445	end: 28.4866	delta: 3.542
P5 start: 35.0555	end: 41.5729	delta: 6.5174
P6 start: 47.5358	end: 56.6882	delta: 9.1524
P7 start: 61.2166	end: 72.4642	delta: 11.2476
P8 start: 75.8952	end: 88.4866	delta: 12.5914

H3: -6.24617e-08	H19: -2.34725e-06	H19f: -1.23539e-07
H5: 6.18371e-07	H21: -7.13848e-08	H21f: -3.39928e-09
H7: 1.392e-06	H23: 0.337871	H23f: 0.0146901
H9: 8.32823e-08	H25: -0.253125	H25f: -0.010125
H11: -1.00507e-06	H27: 1.31864e-07	H27f: 4.88384e-09
H13: 1.79457e-06	H29: 0.318311	H29f: 0.0109762
H15: -8.12002e-08	H31: 0.216329	H31f: 0.00697835
H17: 7.16473e-07	H33: 6.81401e-08	H33f: 2.06485e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4131
c3ed = -0.2711
c4sd = -1.3573
c4ed = -0.2052
c5sd = 1.3573
c5ed = 0.2711
varx = 1.7841%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 82/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.82
Actual Amplitude:	0.82
Actual Power:	0.6724
Distortion 2H-22H:	0.00065353%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.129	end: 3.2663	delta: 2.1373
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.7911	end: 18.3474	delta: 2.5563
P4 start: 24.9284	end: 28.5622	delta: 3.6338
P5 start: 35.0716	end: 41.6526	delta: 6.581
P6 start: 47.4945	end: 56.7337	delta: 9.2391
P7 start: 61.129	end: 72.5055	delta: 11.3764
P8 start: 75.7911	end: 88.5622	delta: 12.771

H3: 2.7765e-07	H19: -3.69226e-06	H19f: -1.94329e-07
H5: -1.1106e-06	H21: 8.81429e-09	H21f: 4.19728e-10
H7: 2.61784e-06	H23: 0.320842	H23f: 0.0139496
H9: -8.22667e-08	H25: -0.245152	H25f: -0.00980606
H11: 2.4063e-06	H27: -6.85556e-09	H27f: -2.53909e-10
H13: 3.63793e-06	H29: 0.320965	H29f: 0.0110678
H15: 0.0	H31: 0.218151	H31f: 0.00703712
H17: 1.37192e-06	H33: 6.17e-08	H33f: 1.8697e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3618
c3ed = -0.2554
c4sd = -1.4688
c4ed = -0.2849
c5sd = 1.4688
c5ed = 0.2554
varx = 1.7051%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.83
Actual Amplitude:	0.83
Actual Power:	0.6889
Distortion 2H-22H:	0.000324352%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 1.0413	end: 3.2208	delta: 2.1795
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.6848	end: 18.2651	delta: 2.5804
P4 start: 24.9102	end: 28.6379	delta: 3.7277
P5 start: 35.0898	end: 41.7349	delta: 6.6451
P6 start: 47.4555	end: 56.7792	delta: 9.3237
P7 start: 61.0413	end: 72.5445	delta: 11.5032
P8 start: 75.6848	end: 88.6379	delta: 12.9532

H3: 6.09566e-08	H19: -2.6083e-06	H19f: -1.37279e-07
H5: -4.93749e-07	H21: 1.56746e-07	H21f: 7.46408e-09
H7: 8.35977e-07	H23: 0.30362	H23f: 0.0132009
H9: 1.42232e-07	H25: -0.237491	H25f: -0.00949963
H11: 8.31227e-09	H27: -1.35459e-07	H27f: -5.01701e-09
H13: 9.42483e-07	H29: 0.323432	H29f: 0.0111528
H15: -2.43827e-08	H31: 0.219779	H31f: 0.00708964
H17: 1.35539e-06	H33: 1.35767e-07	H33f: 4.11415e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3561
c3ed = -0.2689
c4sd = -1.5557
c4ed = -0.3212
c5sd = 1.5557
c5ed = 0.2689
varx = 1.6264%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 84/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.84
Actual Amplitude:	0.84
Actual Power:	0.705599
Distortion 2H-22H:	0.000662725%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.9533	end: 3.1752	delta: 2.2219
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.576	end: 18.1803	delta: 2.6044
P4 start: 24.8901	end: 28.7138	delta: 3.8236
P5 start: 35.1099	end: 41.8197	delta: 6.7098
P6 start: 47.4188	end: 56.8248	delta: 9.406
P7 start: 60.9533	end: 72.5812	delta: 11.6279
P8 start: 75.576	end: 88.7138	delta: 13.1378

H3: -6.0231e-08	H19: -2.7199e-06	H19f: -1.43153e-07
H5: -3.25247e-06	H21: -6.88354e-08	H21f: -3.27788e-09
H7: 3.32991e-06	H23: 0.286226	H23f: 0.0124446
H9: 2.0077e-08	H25: -0.230137	H25f: -0.00920549
H11: 4.35306e-07	H27: -2.67693e-08	H27f: -9.91456e-10
H13: 1.42469e-06	H29: 0.325681	H29f: 0.0112304
H15: -1.56601e-07	H31: 0.221215	H31f: 0.00713595
H17: 3.55008e-06	H33: -3.28533e-08	H33f: -9.95553e-10

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3774
c3ed = -0.2999
c4sd = -1.6296
c4ed = -0.3328
c5sd = 1.6296
c5ed = 0.2999
varx = 1.5479%.

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STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 85/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.85
Actual Amplitude:	0.85
Actual Power:	0.7225
Distortion 2H-22H:	0.000396198%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.8653	end: 3.1294	delta: 2.2641
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.4642	end: 18.0924	delta: 2.6282
P4 start: 24.8679	end: 28.7898	delta: 3.9219
P5 start: 35.1321	end: 41.9076	delta: 6.7755
P6 start: 47.3849	end: 56.8706	delta: 9.4858
P7 start: 60.8653	end: 72.6151	delta: 11.7499
P8 start: 75.4642	end: 88.7898	delta: 13.3256

H3: -2.97612e-08	H19: -2.39656e-06	H19f: -1.26135e-07
H5: -1.71424e-06	H21: 8.50319e-09	H21f: 4.04914e-10
H7: 1.68363e-06	H23: 0.268614	H23f: 0.0116789
H9: 6.94427e-08	H25: -0.223141	H25f: -0.00892562
H11: 6.24985e-07	H27: 1.38885e-07	H27f: 5.14391e-09
H13: 7.21136e-07	H29: 0.327727	H29f: 0.0113009
H15: -5.95224e-09	H31: 0.222422	H31f: 0.00717489
H17: 1.80668e-06	H33: -1.13634e-07	H33f: -3.44344e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4621
c3ed = -0.3712
c4sd = -1.6685
c4ed = -0.2839
c5sd = 1.6685
c5ed = 0.3712
varx = 1.4699%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.86
Actual Amplitude:	0.86
Actual Power:	0.7396
Distortion 2H-22H:	0.000279541%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.7772	end: 3.0831	delta: 2.3059
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.3491	end: 18.0011	delta: 2.652
P4 start: 24.8433	end: 28.8659	delta: 4.0225
P5 start: 35.1567	end: 41.9989	delta: 6.8422
P6 start: 47.3541	end: 56.9169	delta: 9.5628
P7 start: 60.7772	end: 72.6459	delta: 11.8687
P8 start: 75.3491	end: 88.8659	delta: 13.5167

H3: 8.82453e-08	H19: -1.68131e-06	H19f: -8.84898e-08
H5: -3.7063e-07	H21: -2.5213e-08	H21f: -1.20062e-09
H7: 3.40375e-07	H23: 0.250782	H23f: 0.0109036
H9: -8.82453e-08	H25: -0.21652	H25f: -0.00866081
H11: 4.81338e-07	H27: -3.92202e-08	H27f: -1.4526e-09
H13: 2.10431e-06	H29: 0.329541	H29f: 0.0113635
H15: 3.52981e-08	H31: 0.223386	H31f: 0.007206
H17: 2.38781e-07	H33: -3.74374e-08	H33f: -1.13447e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4562
c3ed = -0.3883
c4sd = -1.7673
c4ed = -0.3288
c5sd = 1.7673
c5ed = 0.3883
varx = 1.3925%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.87
Actual Amplitude:	0.87
Actual Power:	0.7569
Distortion 2H-22H:	0.000621992%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.6893	end: 3.0362	delta: 2.3469
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.2305	end: 17.9061	delta: 2.6756
P4 start: 24.8165	end: 28.9421	delta: 4.1256
P5 start: 35.1835	end: 42.0939	delta: 6.9104
P6 start: 47.3268	end: 56.9638	delta: 9.637
P7 start: 60.6893	end: 72.6732	delta: 11.9839
P8 start: 75.2305	end: 88.9421	delta: 13.7116

H3: 8.7231e-08	H19: -4.05854e-06	H19f: -2.13607e-07
H5: -5.0594e-07	H21: -9.13849e-08	H21f: -4.35166e-09
H7: 2.21816e-06	H23: 0.232712	H23f: 0.0101179
H9: 7.75387e-08	H25: -0.210305	H25f: -0.00841219
H11: -9.27821e-07	H27: 4.52309e-08	H27f: 1.67522e-09
H13: 3.1269e-06	H29: 0.331101	H29f: 0.0114173
H15: -7.56002e-08	H31: 0.224084	H31f: 0.00722851
H17: 2.52457e-06	H33: -1.61245e-07	H33f: -4.88622e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.3591
c3ed = -0.3508
c4sd = -1.9266
c4ed = -0.4683
c5sd = 1.9266
c5ed = 0.3508
varx = 1.3158%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.88
Actual Amplitude:	0.88
Actual Power:	0.7744
Distortion 2H-22H:	0.00038082%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.602	end: 2.9883	delta: 2.3863
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 15.1075	end: 17.8066	delta: 2.6991
P4 start: 24.7871	end: 29.0185	delta: 4.2314
P5 start: 35.2129	end: 42.1934	delta: 6.9805
P6 start: 47.3036	end: 57.0117	delta: 9.7081
P7 start: 60.602	end: 72.6964	delta: 12.0944
P8 start: 75.1075	end: 89.0185	delta: 13.911

H3: 2.01226e-07	H19: -1.65217e-06	H19f: -8.69565e-08
H5: -1.2246e-06	H21: -1.06773e-07	H21f: -5.08443e-09
H7: 2.18063e-06	H23: 0.214354	H23f: 0.00931972
H9: -1.14986e-07	H25: -0.204557	H25f: -0.00818227
H11: -1.4112e-07	H27: 7.02695e-08	H27f: 2.60257e-09
H13: 4.17931e-07	H29: 0.332405	H29f: 0.0114622
H15: 2.29973e-08	H31: 0.224472	H31f: 0.00724104
H17: 2.29296e-06	H33: -4.70399e-08	H33f: -1.42545e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.4067
c3ed = -0.4041
c4sd = -2.0023
c4ed = -0.4673
c5sd = 2.0023
c5ed = 0.4041
varx = 1.2402%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.89
 Actual Amplitude: 0.89
 Actual Power: 0.7921
 Distortion 2H-22H: 0.000394077%
 First strong harmonics: 23 and 25
 Pulses per sine cycle: 28
 Total switching events: 56
 Delta Friendly: Yes

P1 start: 0.5154	end: 2.9389	delta: 2.4235
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 14.9796	end: 17.702	delta: 2.7225
P4 start: 24.755	end: 29.0951	delta: 4.3401
P5 start: 35.245	end: 42.298	delta: 7.0529
P6 start: 47.2853	end: 57.0611	delta: 9.7758
P7 start: 60.5154	end: 72.7147	delta: 12.1993
P8 start: 74.9796	end: 89.0951	delta: 14.1155

H3: 1.98965e-07	H19: -2.54017e-06	H19f: -1.33693e-07
H5: 1.53487e-07	H21: -1.543e-07	H21f: -7.3476e-09
H7: 1.88814e-06	H23: 0.195682	H23f: 0.00850792
H9: 1.89491e-08	H25: -0.199309	H25f: -0.00797236
H11: -9.61234e-07	H27: 1.89491e-08	H27f: 7.01817e-10
H13: 1.53487e-06	H29: 0.333421	H29f: 0.0114973
H15: 1.70542e-07	H31: 0.224512	H31f: 0.00724231
H17: 1.45462e-06	H33: -1.05942e-07	H33f: -3.21038e-09

c2sd = 0.0
 c2ed = 0.0
 c3sd = -0.3914
 c3ed = -0.4206
 c4sd = -2.1224
 c4ed = -0.534
 c5sd = 2.1224
 c5ed = 0.4206
 varx = 1.1659%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.9
Actual Amplitude:	0.9
Actual Power:	0.81
Distortion 2H-22H:	0.000619996%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	0.4302	end:	2.8875	delta:	2.4574
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	14.8459	end:	17.5917	delta:	2.7458
P4 start:	24.72	end:	29.1718	delta:	4.4518
P5 start:	35.28	end:	42.4083	delta:	7.1283
P6 start:	47.2725	end:	57.1125	delta:	9.84
P7 start:	60.4302	end:	72.7275	delta:	12.2974
P8 start:	74.8459	end:	89.1718	delta:	14.3259

H3: 1.40539e-07	H19: -3.55046e-06	H19f: -1.86866e-07
H5: -3.15369e-06	H21: -1.84708e-07	H21f: -8.79563e-09
H7: 8.91418e-07	H23: 0.176653	H23f: 0.00768058
H9: -1.68647e-07	H25: -0.194622	H25f: -0.00778487
H11: 1.28785e-06	H27: -1.624e-07	H27f: -6.01483e-09
H13: 3.08753e-06	H29: 0.334111	H29f: 0.0115211
H15: -1.68647e-08	H31: 0.224154	H31f: 0.00723077
H17: 1.95432e-06	H33: -1.20097e-07	H33f: -3.6393e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2038
c3ed = -0.3337
c4sd = -2.3546
c4ed = -0.7785
c5sd = 2.3546
c5ed = 0.3337
varx = 1.0936%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.91
Actual Amplitude:	0.91
Actual Power:	0.8281
Distortion 2H-22H:	0.000640719%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	0.3469	end:	2.8332	delta:	2.4863
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	14.7053	end:	17.4745	delta:	2.7693
P4 start:	24.6818	end:	29.2488	delta:	4.567
P5 start:	35.3182	end:	42.5255	delta:	7.2073
P6 start:	47.2663	end:	57.1668	delta:	9.9005
P7 start:	60.3469	end:	72.7337	delta:	12.3868
P8 start:	74.7053	end:	89.2488	delta:	14.5435

H3: -1.38994e-07	H19: -5.26716e-06	H19f: -2.77219e-07
H5: 2.00152e-07	H21: 1.03253e-07	H21f: 4.91681e-09
H7: 4.76553e-08	H23: 0.157188	H23f: 0.00683425
H9: 8.33967e-08	H25: -0.19058	H25f: -0.00762318
H11: -4.54891e-08	H27: 6.17753e-08	H27f: 2.28798e-09
H13: 2.98945e-06	H29: 0.334454	H29f: 0.0115329
H15: -7.22771e-08	H31: 0.223319	H31f: 0.00720385
H17: 2.0702e-06	H33: -2.24918e-07	H33f: -6.81571e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.2325
c3ed = -0.3821
c4sd = -2.4615
c4ed = -0.8135
c5sd = 2.4615
c5ed = 0.3821
varx = 1.0238%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.92
Actual Amplitude:	0.92
Actual Power:	0.8464
Distortion 2H-22H:	0.000355649%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.2666	end: 2.7748	delta: 2.5083
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 14.5565	end: 17.3493	delta: 2.7928
P4 start: 24.6401	end: 29.3259	delta: 4.6858
P5 start: 35.3599	end: 42.6507	delta: 7.2908
P6 start: 47.2681	end: 57.2252	delta: 9.9571
P7 start: 60.2666	end: 72.7319	delta: 12.4654
P8 start: 74.5565	end: 89.3259	delta: 14.7695

H3: 2.74967e-08	H19: -2.24026e-06	H19f: -1.17908e-07
H5: -1.25385e-06	H21: 2.59255e-07	H21f: 1.23455e-08
H7: 1.4259e-06	H23: 0.137217	H23f: 0.00596594
H9: 8.24902e-08	H25: -0.187267	H25f: -0.00749068
H11: -2.92465e-07	H27: 3.05519e-08	H27f: 1.13155e-09
H13: 5.58395e-07	H29: 0.334378	H29f: 0.0115303
H15: -8.79896e-08	H31: 0.221927	H31f: 0.00715893
H17: 1.88272e-06	H33: -1.17486e-07	H33f: -3.56018e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.1112
c3ed = -0.3415
c4sd = -2.6691
c4ed = -1.0065
c5sd = 2.6691
c5ed = 0.3415
varx = 0.9576%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.93
Actual Amplitude:	0.93
Actual Power:	0.8649
Distortion 2H-22H:	0.000402283%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.1905	end: 2.7108	delta: 2.5204
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 14.3978	end: 17.2145	delta: 2.8167
P4 start: 24.5945	end: 29.4033	delta: 4.8089
P5 start: 35.4055	end: 42.7855	delta: 7.38
P6 start: 47.2793	end: 57.2892	delta: 10.0098
P7 start: 60.1905	end: 72.7207	delta: 12.5302
P8 start: 74.3978	end: 89.4034	delta: 15.0055

H3: -1.08804e-07	H19: -2.31925e-06	H19f: -1.22066e-07
H5: -1.59942e-06	H21: 2.09837e-07	H21f: 9.99223e-09
H7: 1.32897e-06	H23: 0.116641	H23f: 0.00507134
H9: -2.72011e-08	H25: -0.18479	H25f: -0.00739162
H11: -5.41549e-07	H27: 1.32983e-07	H27f: 4.9253e-09
H13: 6.96766e-07	H29: 0.333811	H29f: 0.0115107
H15: -1.46886e-07	H31: 0.219853	H31f: 0.00709203
H17: 2.37129e-06	H33: -4.69837e-08	H33f: -1.42375e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0682
c3ed = -0.3526
c4sd = -2.8385
c4ed = -1.1306
c5sd = 2.8385
c5ed = 0.3526
varx = 0.8964%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.94
Actual Amplitude:	0.94
Actual Power:	0.8836
Distortion 2H-22H:	0.000456598%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.1206	end: 2.6389	delta: 2.5183
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 14.2271	end: 17.0681	delta: 2.841
P4 start: 24.5446	end: 29.4811	delta: 4.9365
P5 start: 35.4554	end: 42.9319	delta: 7.4765
P6 start: 47.3023	end: 57.3611	delta: 10.0588
P7 start: 60.1206	end: 72.6977	delta: 12.5771
P8 start: 74.2271	end: 89.4811	delta: 15.254

H3: 8.07351e-08	H19: -3.02544e-06	H19f: -1.59234e-07
H5: 1.45323e-07	H21: 1.46092e-07	H21f: 6.95677e-09
H7: 9.11153e-07	H23: 0.0953219	H23f: 0.00414443
H9: -2.24264e-07	H25: -0.183298	H25f: -0.00733192
H11: -3.81657e-07	H27: -1.31568e-07	H27f: -4.8729e-09
H13: 2.90025e-06	H29: 0.332647	H29f: 0.0114706
H15: -1.13029e-07	H31: 0.216933	H31f: 0.00699782
H17: 1.48173e-06	H33: 7.58421e-08	H33f: 2.29824e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.0792
c3ed = -0.4008
c4sd = -2.9865
c4ed = -1.2126
c5sd = 2.9865
c5ed = 0.4008
varx = 0.8422%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.95
Actual Amplitude:	0.95
Actual Power:	0.9025
Distortion 2H-22H:	0.000557605%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.0599	end: 2.5557	delta: 2.4957
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 14.0415	end: 16.9077	delta: 2.8662
P4 start: 24.4897	end: 29.5592	delta: 5.0695
P5 start: 35.5103	end: 43.0924	delta: 7.582
P6 start: 47.3395	end: 57.4443	delta: 10.1048
P7 start: 60.0599	end: 72.6605	delta: 12.6005
P8 start: 74.0415	end: 89.5592	delta: 15.5177

H3: 1.33142e-07	H19: -3.35518e-06	H19f: -1.76588e-07
H5: -1.9492e-06	H21: -1.67379e-07	H21f: -7.97041e-09
H7: 4.45075e-07	H23: 0.0730835	H23f: 0.00317755
H9: -2.66284e-08	H25: -0.182974	H25f: -0.00731897
H11: 3.12279e-07	H27: 2.95871e-08	H27f: 1.09582e-09
H13: 2.50717e-06	H29: 0.330714	H29f: 0.0114039
H15: 1.43793e-07	H31: 0.212938	H31f: 0.00686896
H17: 3.06383e-06	H33: -1.86399e-07	H33f: -5.64845e-09

c2sd = 0.0
c2ed = 0.0
c3sd = -0.051
c3ed = -0.43
c4sd = -3.1727
c4ed = -1.3484
c5sd = 3.1727
c5ed = 0.43
varx = 0.7979%.

STEP-LOCKED MAGIC SINEWAVE

ANDC28 - 96/100

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.96
Actual Amplitude:	0.96
Actual Power:	0.9216
Distortion 2H-22H:	0.000448822%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	0.0129	end:	2.456	delta:	2.4432
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	13.8369	end:	16.7297	delta:	2.8928
P4 start:	24.429	end:	29.6377	delta:	5.2087
P5 start:	35.571	end:	43.2703	delta:	7.6993
P6 start:	47.395	end:	57.544	delta:	10.1489
P7 start:	60.0129	end:	72.605	delta:	12.5921
P8 start:	73.8369	end:	89.6377	delta:	15.8008

H3: 2.6351e-08	H19: -2.85839e-06	H19f: -1.50442e-07
H5: -1.89728e-07	H21: 1.50577e-07	H21f: 7.17035e-09
H7: 5.87252e-07	H23: 0.0496723	H23f: 0.00215967
H9: -2.6351e-08	H25: -0.184067	H25f: -0.00736268
H11: -1.3439e-06	H27: 5.27021e-08	H27f: 1.95193e-09
H13: 2.21349e-06	H29: 0.327777	H29f: 0.0113027
H15: 6.85127e-08	H31: 0.207537	H31f: 0.00669474
H17: 2.20419e-06	H33: -3.11421e-08	H33f: -9.43701e-10

c2sd = 0.0
c2ed = 0.0
c3sd = 0.1936
c3ed = -0.3322
c4sd = -3.5091
c4ed = -1.719
c5sd = 3.5091
c5ed = 0.3322
varx = 0.7673%.

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SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.97
Actual Amplitude:	0.97
Actual Power:	0.9409
Distortion 2H-22H:	0.000537617%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total walking events:	56
Delta Friendly:	Yes

P1 start: -0.0138	end: 2.3325	delta: 2.3464
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 13.6083	end: 16.53	delta: 2.9216
P4 start: 24.3618	end: 29.7167	delta: 5.3549
P5 start: 35.6382	end: 43.47	delta: 7.8318
P6 start: 47.4735	end: 57.6675	delta: 10.194
P7 start: 59.9862	end: 72.5265	delta: 12.5404
P8 start: 73.6083	end: 89.7167	delta: 16.1084

H3: 1.04318e-07	H19: -2.87422e-06	H19f: -1.51275e-07
H5: -1.90901e-06	H21: -2.9805e-08	H21f: -1.41929e-09
H7: 5.25313e-07	H23: 0.0247747	H23f: 0.00107716
H9: -2.95566e-07	H25: -0.186883	H25f: -0.00747533
H11: -1.63589e-06	H27: 2.89771e-08	H27f: 1.07323e-09
H13: 1.11941e-06	H29: 0.323439	H29f: 0.0111531
H15: 6.78064e-08	H31: 0.200267	H31f: 0.00646023
H17: 3.56214e-06	H33: -9.00924e-08	H33f: -2.73007e-09

c2sd = 0.0
c2ed = 0.0
c3sd = 0.6525
c3ed = -0.1098
c4sd = -3.9985
c4ed = -2.3275
c5sd = 3.9985
c5ed = 0.1098
varx = 0.7553%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.98
Actual Amplitude:	0.98
Actual Power:	0.9604
Distortion 2H-22H:	0.000203957%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	-0.0088	end:	2.1728	delta:	2.1816
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	13.3481	end:	16.3023	delta:	2.9542
P4 start:	24.2866	end:	29.7964	delta:	5.5097
P5 start:	35.7134	end:	43.6977	delta:	7.9843
P6 start:	47.582	end:	57.8272	delta:	10.2452
P7 start:	59.9912	end:	72.418	delta:	12.4268
P8 start:	73.3481	end:	89.7964	delta:	16.4482

H3: -1.5488e-07	H19: -1.30832e-06	H19f: -6.88592e-08
H5: 3.09759e-08	H21: -4.79389e-08	H21f: -2.28281e-09
H7: 0.0	H23: -0.00210085	H23f: -9.13415e-05
H9: 1.80693e-07	H25: -0.191868	H25f: -0.00767471
H11: -5.77278e-07	H27: -5.16265e-08	H27f: -1.91209e-09
H13: 1.05437e-06	H29: 0.317083	H29f: 0.0109339
H15: -1.03253e-07	H31: 0.190409	H31f: 0.00614222
H17: 9.6572e-07	H33: 5.39732e-08	H33f: 1.63555e-09

c2sd = 0.0
c2ed = 0.0
c3sd = 5.5889
c3ed = 2.8533
c4sd = -7.2644
c4ed = -7.4444
c5sd = 7.2644
c5ed = -2.8533
varx = 0.7675%.

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	0.99
Actual Amplitude:	0.989192
Actual Power:	0.9785
Distortion 2H-22H:	0.000374915%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start:	0.0392	end:	1.9776	delta:	1.9384
P2 start:	0.0	end:	0.0	delta:	0.0
P3 start:	13.0729	end:	16.0621	delta:	2.9892
P4 start:	24.2096	end:	29.8702	delta:	5.6607
P5 start:	35.7904	end:	43.9379	delta:	8.1474
P6 start:	47.7156	end:	58.0224	delta:	10.3068
P7 start:	60.0392	end:	72.2844	delta:	12.2452
P8 start:	73.0729	end:	89.8703	delta:	16.7973

H3: 2.55734e-08	H19: -1.70803e-06	H19f: -8.98965e-08
H5: -9.5133e-07	H21: 3.65334e-08	H21f: 1.73969e-09
H7: 7.67202e-08	H23: -0.0290647	H23f: -0.00126368
H9: -1.5344e-07	H25: -0.198806	H25f: -0.00795225
H11: -1.33912e-06	H27: -4.54638e-08	H27f: -1.68385e-09
H13: 1.66424e-06	H29: 0.308572	H29f: 0.0106404
H15: -6.64908e-08	H31: 0.178201	H31f: 0.00574841
H17: 2.37381e-06	H33: 3.1618e-07	H33f: 9.58122e-09

c2sd = 0.0
c2ed = 0.0
c3sd = 17.4142
c3ed = 10.0431
c4sd = -14.7714
c4ed = -19.471
c5sd = 14.7714
c5ed = -10.0431
varx = 0.8052%.

STEP-LOCKED MAGIC SINEWAVE **ANDC28 - 100/100**

SUMMARY: This steplock-28 "constant amplitude increments" magic sinewave is fully delta friendly. Harmonics 2 through 22 are virtually zero. The first major harmonics are the 23rd and 25th. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude:	1.0
Actual Amplitude:	1.0
Actual Power:	1.00001
Distortion 2H-22H:	0.0003805%
First strong harmonics:	23 and 25
Pulses per sine cycle:	28
Total switching events:	56
Delta Friendly:	Yes

P1 start: 0.1839	end: 1.6524	delta: 1.4685
P2 start: 0.0	end: 0.0	delta: 0.0
P3 start: 12.6893	end: 15.7304	delta: 3.0411
P4 start: 24.1073	end: 29.9583	delta: 5.8509
P5 start: 35.8927	end: 44.2696	delta: 8.3769
P6 start: 47.9281	end: 58.3476	delta: 10.4194
P7 start: 60.1839	end: 72.0719	delta: 11.8879
P8 start: 72.6893	end: 89.9583	delta: 17.269

H3: -2.52969e-08	H19: -1.10641e-06	H19f: -5.8232e-08
H5: 6.37483e-07	H21: 3.61385e-09	H21f: 1.72088e-10
H7: -2.6887e-06	H23: -0.0645805	H23f: -0.00280785
H9: -5.05939e-08	H25: -0.210635	H25f: -0.0084254
H11: 1.35914e-06	H27: 9.55662e-08	H27f: 3.53949e-09
H13: -5.77938e-07	H29: 0.293391	H29f: 0.0101169
H15: -4.04751e-08	H31: 0.158305	H31f: 0.0051066
H17: -1.85263e-06	H33: -7.35911e-08	H33f: -2.23003e-09

c2sd = 0.0
c2ed = 0.0
c3sd = 64.4956
c3ed = 38.8555
c4sd = -44.0178
c4ed = -66.8481
c5sd = 44.0178
c5ed = -38.8555
varx = 0.8881%.

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