

14-18-04 hard clipped double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -4  
-4 -4 -3 -2 -1  
0 1 2 3 4  
4 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 14 13 11 8 4  
0 -4 -8 -11 -13  
-14 -14 -13 -11 -8  
-4 0 4 8 11 13 14 ]
```

Cosine Amplitude "size" : 14

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 4

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

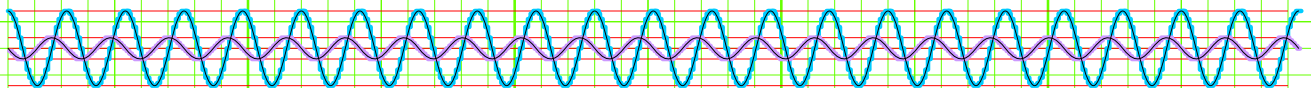
Third Harmonic: -2.69104e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.80497e-05 percent.

THD 3 - 9 : 0.394368 percent.



33-34-06 hard clipped dual peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -6 -6  
-6 -6 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 6  
6 6 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 33 32 30 27 23 18 12 6  
0 -6 -12 -18 -23 -27 -30 -32  
-33 -33 -32 -30 -27 -23 -18 -12  
-6 0 6 12 18 23 27 30 32 33 ]
```

Cosine Amplitude "size" : 33

Cosine Time Period "speed" : 34

Clipped Sin Amplitude "sinclip" : 6

Cycles Displayed : 14

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

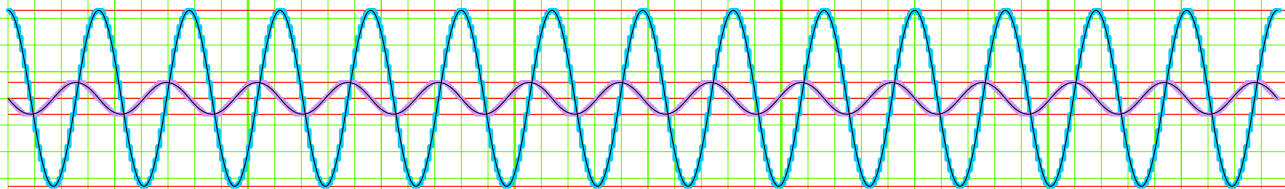
Third Harmonic: -1.4427e-05 percent.

Fifth Harmonic: -0.404095 percent.

Seventh Harmonic: 0.379712 percent.

Ninth Harmonic: -7.74133e-06 percent.

THD 3 - 9 : 0.554503 percent.



32-34-06 dual soft clipped dual peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -5 -6 -6  
  -6 -6 -5 -5 -4 -3 -2 -1  
   0 1 2 3 4 5 5 6  
   6 6 5 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 32 31 29 26 22 17 12 6  
   0 -6 -12 -17 -22 -26 -29 -31  
  -32 -32 -31 -29 -26 -22 -17 -12  
  -6 0 6 12 17 22 26 29 31 32 ]
```

Cosine Amplitude "size" : 32

Cosine Time Period "speed" : 34

Clipped Sin Amplitude "sinclip" : 6

Cycles Displayed : 14

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

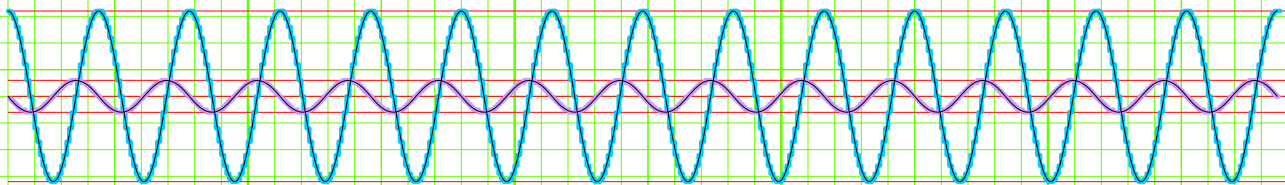
Third Harmonic: 0.183287 percent.

Fifth Harmonic: 0.10281 percent.

Seventh Harmonic: -0.0576331 percent.

Ninth Harmonic: 0.125097 percent.

THD 3 - 9 : 0.251267 percent.



41-38-07 single soft clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -6 -7 -7  
-7 -7 -6 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 6 7  
7 7 6 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 41 40 38 35 31 26 20 14 7  
0 -7 -14 -20 -26 -31 -35 -38 -40  
-41 -41 -40 -38 -35 -31 -26 -20 -14  
-7 0 7 14 20 26 31 35 38 40 41 ]
```

Cosine Amplitude "size" : 41

Cosine Time Period "speed" : 38

Clipped Sin Amplitude "sinclip" : 7

Cycles Displayed : 12

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

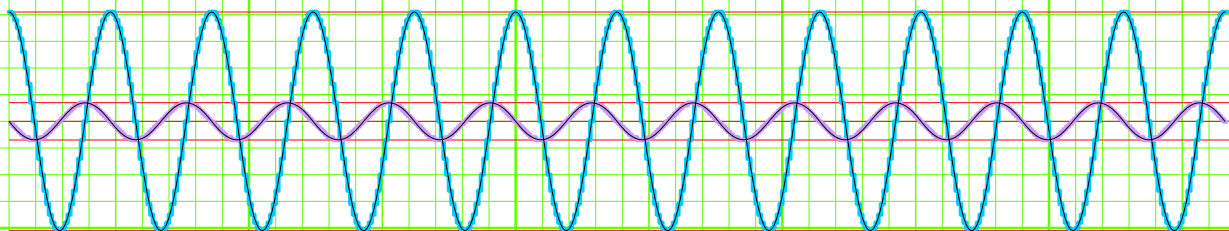
Third Harmonic: -0.362397 percent.

Fifth Harmonic: 0.0355263 percent.

Seventh Harmonic: 0.0125729 percent.

Ninth Harmonic: 0.1449 percent.

THD 3 - 9 : 0.392107 percent.



60-46-08 hard clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -8 -8 -8  
-8 -8 -8 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 8 8  
8 8 8 8 7 6 5 4 3 2 1 ]
```

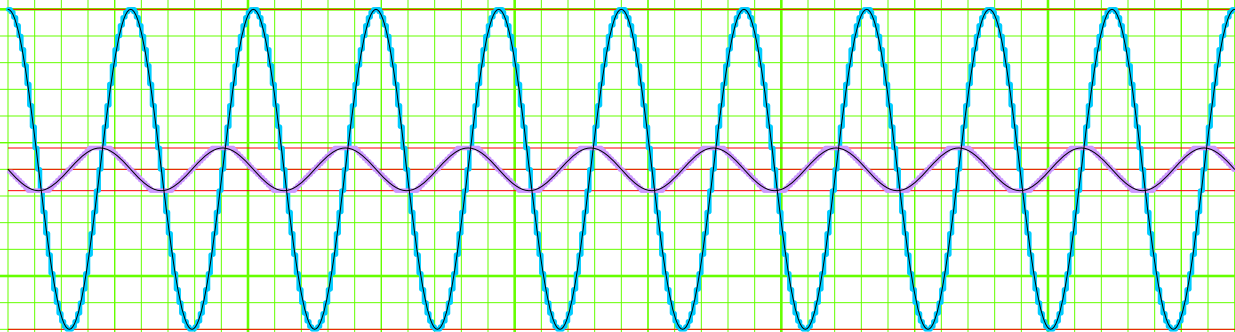
Approximate Cosine Wave Output:

```
[ 60 59 57 54 50 45 39 32 24 16 8  
0 -8 -16 -24 -32 -39 -45 -50 -54 -57 -59  
-60 -60 -59 -57 -54 -50 -45 -39 -32 -24 -16  
-8 0 8 16 24 32 39 45 50 54 57 59 60 ]
```

Cosine Amplitude "size" : 60
Cosine Time Period "speed" : 46
Clipped Sin Amplitude "sinclip" : 8
Cycles Displayed : 10
Soft Clip: false
Double Peak: true
Clipped: true

Unfiltered!

Third Harmonic: -2.83007e-07 percent.
Fifth Harmonic: -0.508279 percent.
Seventh Harmonic: 0.369531 percent.
Ninth Harmonic: 0.0 percent.
THD 3 - 9 : 0.628411 percent.



59-46-08 single soft clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -7 -8 -8 -8  
-8 -8 -8 -7 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 7 8 8  
8 8 8 8 7 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 59 58 56 53 49 44 38 31 24 16 8  
0 -8 -16 -24 -31 -38 -44 -49 -53 -56 -58  
-59 -59 -58 -56 -53 -49 -44 -38 -31 -24 -16  
-8 0 8 16 24 31 38 44 49 53 56 58 59 ]
```

Cosine Amplitude "size" : 59

Cosine Time Period "speed" : 46

Clipped Sin Amplitude "sinclip" : 8

Cycles Displayed : 10

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

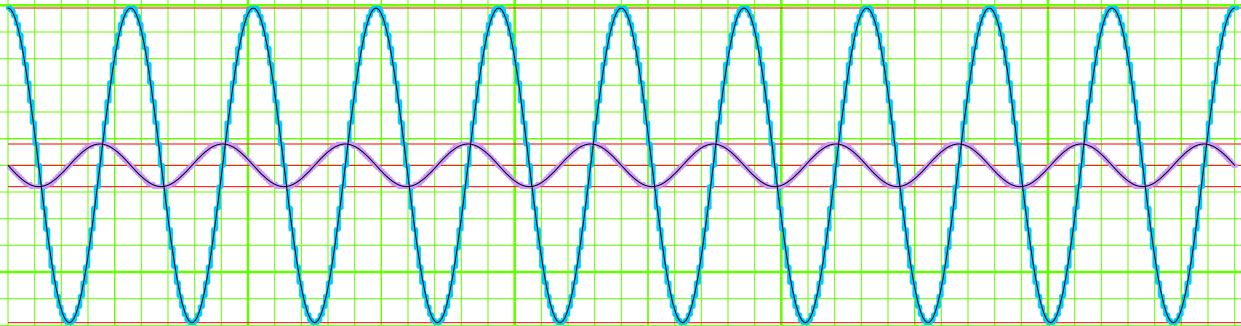
Third Harmonic: 0.0739525 percent.

Fifth Harmonic: -0.204566 percent.

Seventh Harmonic: 0.111338 percent.

Ninth Harmonic: 0.0611654 percent.

THD 3 - 9 : 0.251899 percent.



72-50-09 hard clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -9 -9 -9  
-9 -9 -9 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 9 9  
9 9 9 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 72 71 69 66 62 57 51 44 36 27 18 9  
0 -9 -18 -27 -36 -44 -51 -57 -62 -66 -69 -71  
-72 -72 -71 -69 -66 -62 -57 -51 -44 -36 -27 -18  
-9 0 9 18 27 36 44 51 57 62 66 69 71 72 ]
```

Cosine Amplitude "size" : 72

Cosine Time Period "speed" : 50

Clipped Sin Amplitude "sinclip" : 9

Cycles Displayed : 9

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

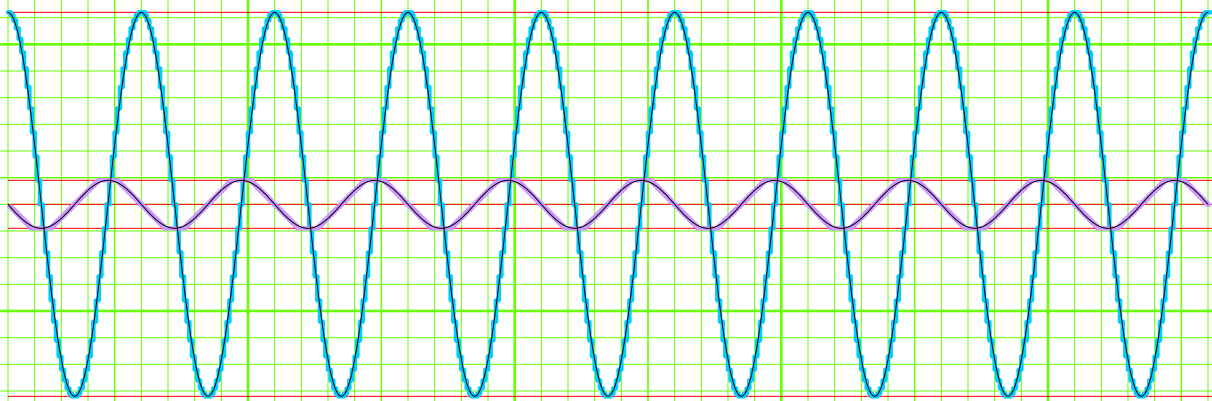
Third Harmonic: -0.500034 percent.

Fifth Harmonic: -0.392562 percent.

Seventh Harmonic: 0.371536 percent.

Ninth Harmonic: -0.0474113 percent.

THD 3 - 9 : 0.737852 percent.



71-50-09 single soft clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -8 -9 -9 -9  
  -9 -9 -9 -8 -8 -7 -6 -5 -4 -3 -2 -1  
  0 1 2 3 4 5 6 7 8 8 9 9  
  9 9 9 8 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 71 70 68 65 61 56 50 43 35 27 18 9  
  0 -9 -18 -27 -35 -43 -50 -56 -61 -65 -68 -70  
 -71 -71 -70 -68 -65 -61 -56 -50 -43 -35 -27 -18  
 -9 0 9 18 27 35 43 50 56 61 65 68 70 71 ]
```

Cosine Amplitude "size" : 71

Cosine Time Period "speed" : 50

Clipped Sin Amplitude "sinclip" : 9

Cycles Displayed : 9

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

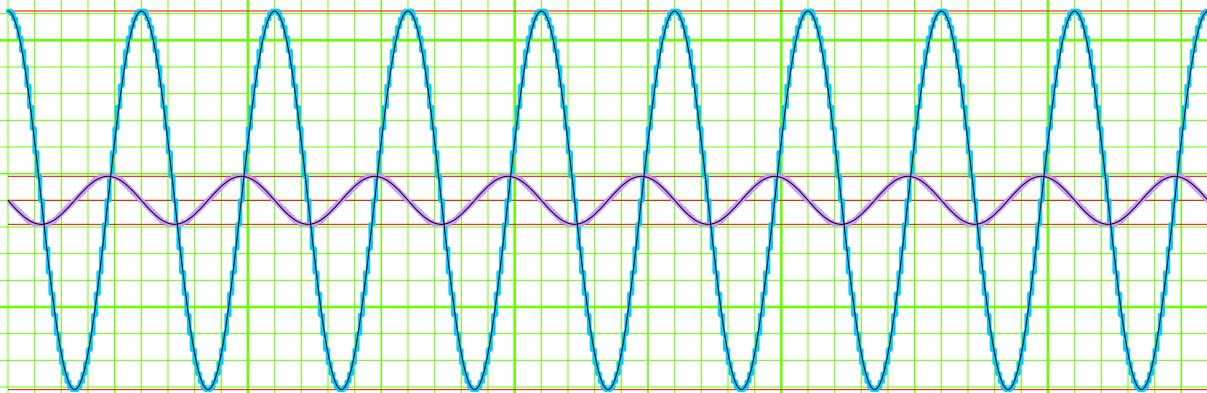
Third Harmonic: -0.377453 percent.

Fifth Harmonic: -0.185948 percent.

Seventh Harmonic: 0.144977 percent.

Ninth Harmonic: 0.0573025 percent.

THD 3 - 9 : 0.44872 percent.



92-58-10 hard clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -10 -10 -10 -10  
-10 -10 -10 -10 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 10 10 10 10  
10 10 10 10 10 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 95 94 92 89 85 80 74 67 59 50 40 30 20 10  
0 -10 -20 -30 -40 -50 -59 -67 -74 -80 -85 -89 -92 -94  
-95 -95 -94 -92 -89 -85 -80 -74 -67 -59 -50 -40 -30 -20  
-10 0 10 20 30 40 50 59 67 74 80 85 89 92 94 95 ]
```

Cosine Amplitude "size" : 95

Cosine Time Period "speed" : 58

Clipped Sin Amplitude "sinclip" : 10

Cycles Displayed : 8

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

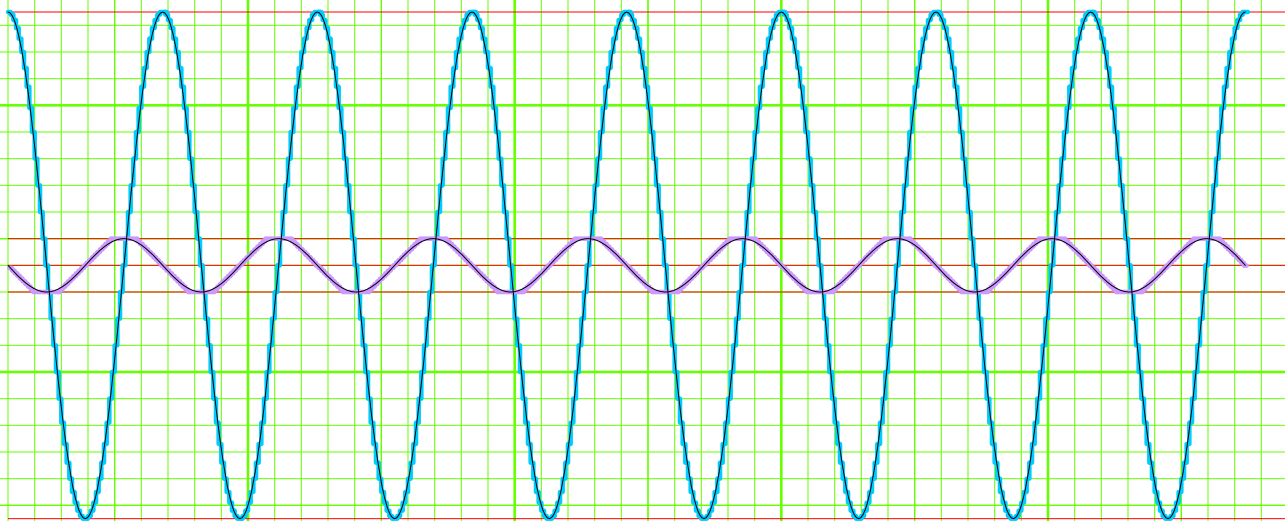
Third Harmonic: 5.63533e-07 percent.

Fifth Harmonic: -0.569413 percent.

Seventh Harmonic: 0.358443 percent.

Ninth Harmonic: 3.52208e-05 percent.

THD 3 - 9 : 0.672839 percent.



94-58-10 single soft clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -9 -10 -10 -10 -10  
-10 -10 -10 -10 -9 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 9 10 10 10  
10 10 10 10 10 9 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 94 93 91 88 84 79 73 66 58 49 40 30 20 10  
0 -10 -20 -30 -40 -49 -58 -66 -73 -79 -84 -88 -91 -93  
-94 -94 -93 -91 -88 -84 -79 -73 -66 -58 -49 -40 -30 -20  
-10 0 10 20 30 40 49 58 66 73 79 84 88 91 93 94 ]
```

Cosine Amplitude "size" : 94

Cosine Time Period "speed" : 58

Clipped Sin Amplitude "sinclip" : 10

Cycles Displayed : 8

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

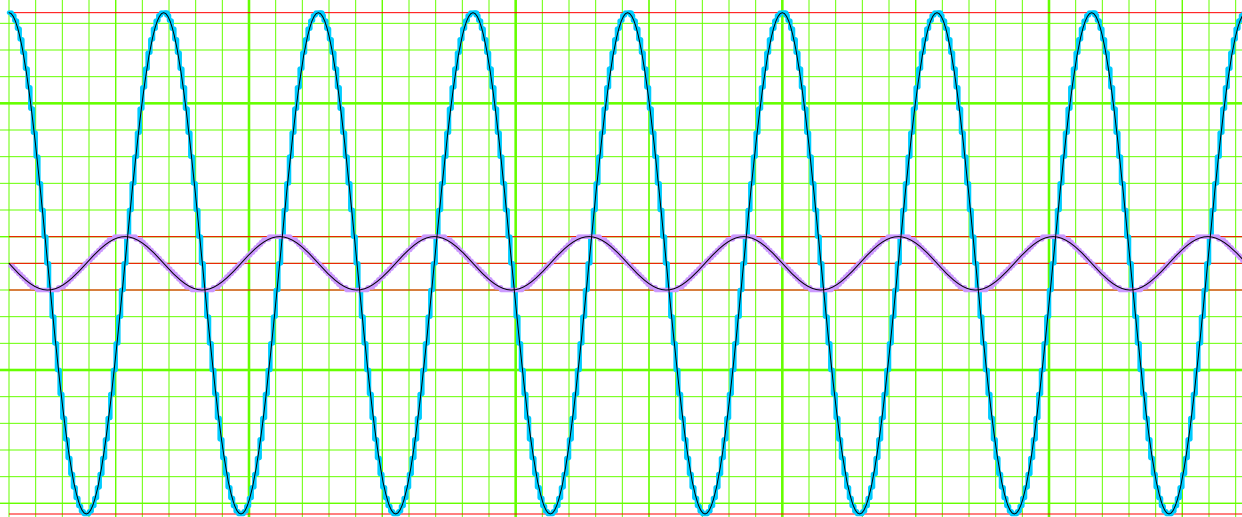
Third Harmonic: 0.0368638 percent.

Fifth Harmonic: -0.369583 percent.

Seventh Harmonic: 0.19189 percent.

Ninth Harmonic: 0.0329017 percent.

THD 3 - 9 : 0.419351 percent.



92-58-10 double soft clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -8 -9 -9 -10 -10 -10  
-10 -10 -10 -9 -9 -8 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 8 9 9 10 10  
10 10 10 10 9 9 8 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 92 91 89 86 82 77 71 64 56 48 39 30 20 10  
0 -10 -20 -30 -39 -48 -56 -64 -71 -77 -82 -86 -89 -91  
-92 -92 -91 -89 -86 -82 -77 -71 -64 -56 -48 -39 -30 -20  
-10 0 10 20 30 39 48 56 64 71 77 82 86 89 91 92 ]
```

Cosine Amplitude "size" : 92

Cosine Time Period "speed" : 58

Clipped Sin Amplitude "sinclip" : 10

Cycles Displayed : 8

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

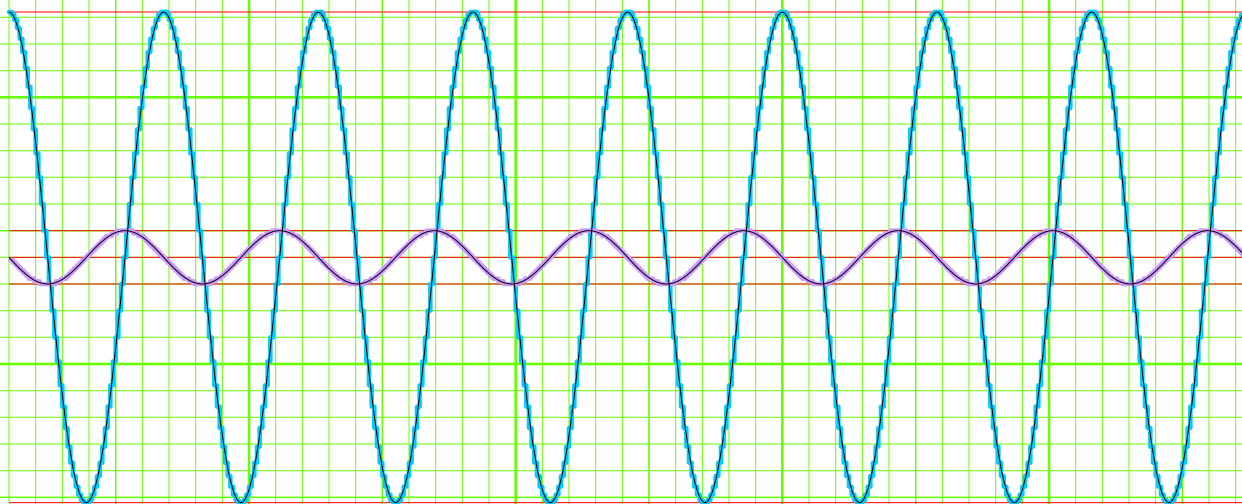
Third Harmonic: 0.109177 percent.

Fifth Harmonic: -0.0179804 percent.

Seventh Harmonic: -0.0542809 percent.

Ninth Harmonic: 0.0705242 percent.

THD 3 - 9 : 0.141996 percent.



110-62-11 hard clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -11 -11 -11 -11  
-11 -11 -11 -11 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 10 11 11 11 11  
11 11 11 11 11 11 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 110 109 107 104 100 95 89 82 74 65 55 44 33 22 11  
0 -11 -22 -33 -44 -55 -65 -74 -82 -89 -95 -100 -104 -107 -109  
-110 -110 -109 -107 -104 -100 -95 -89 -82 -74 -65 -55 -44 -33 -22  
-11 0 11 22 33 44 55 65 74 82 89 95 100 104 107 109 110 ]
```

Cosine Amplitude "size" : 110

Cosine Time Period "speed" : 62

Clipped Sin Amplitude "sinclip" : 11

Cycles Displayed : 7

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

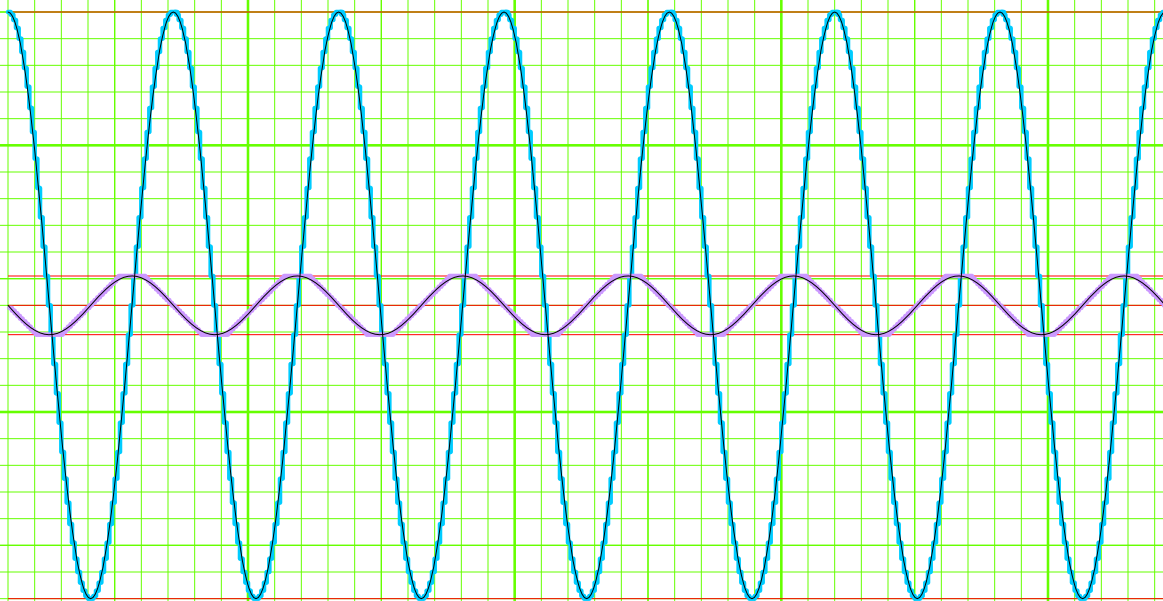
Third Harmonic: -0.40982 percent.

Fifth Harmonic: -0.474958 percent.

Seventh Harmonic: 0.365594 percent.

Ninth Harmonic: -0.0412563 percent.

THD 3 - 9 : 0.727254 percent.



108-62-11 single clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -10 -10 -11 -11 -11  
-11 -11 -11 -10 -10 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 10 10 10 11 11  
11 11 11 11 10 10 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 108 107 105 102 98 93 87 80 72 63 53 43 33 22 11  
0 -11 -22 -33 -43 -53 -63 -72 -80 -87 -93 -98 -102 -105 -107  
-108 -108 -107 -105 -102 -98 -93 -87 -80 -72 -63 -53 -43 -33 -22  
-11 0 11 22 33 43 53 63 72 80 87 93 98 102 105 107 108 ]
```

Cosine Amplitude "size" : 108

Cosine Time Period "speed" : 62

Clipped Sin Amplitude "sinclip" : 11

Cycles Displayed : 7

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

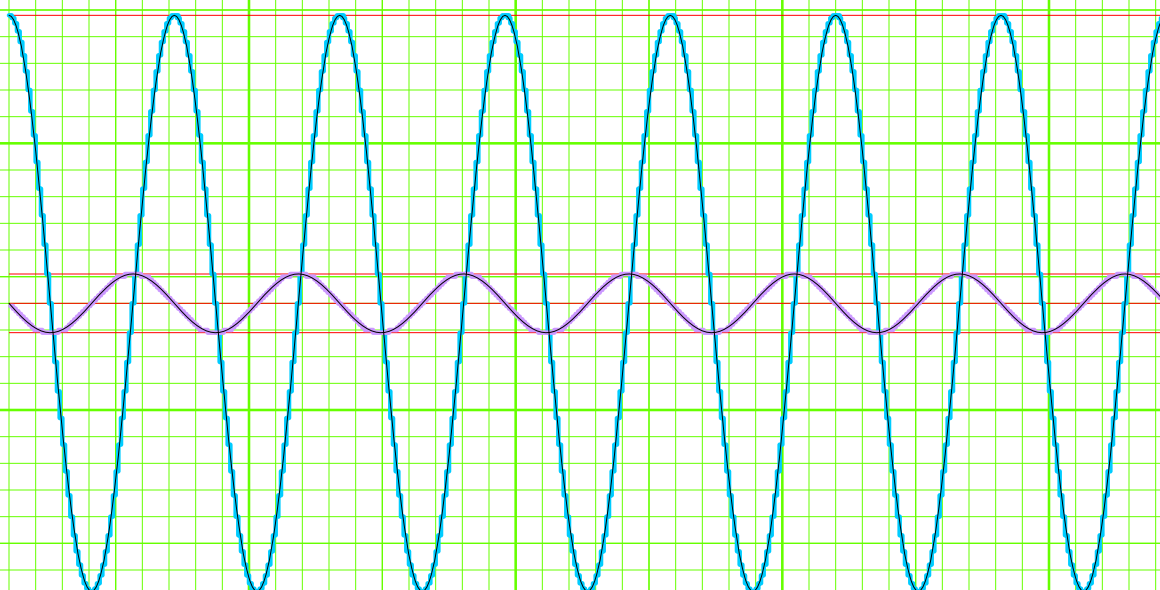
Third Harmonic: -0.16646 percent.

Fifth Harmonic: -0.277496 percent.

Seventh Harmonic: 0.0869093 percent.

Ninth Harmonic: 0.136199 percent.

THD 3 - 9 : 0.361685 percent.



06-14-03 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3  
  -3 -2 -1  
   0 1 2  
  3 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 6 5 3  
  0 -3 -5  
 -6 -6 -5  
 -3 0 3 5 6 ]
```

Cosine Amplitude "size" : 6

Cosine Time Period "speed" : 14

Clipped Sin Amplitude "sinclip" : 3

Cycles Displayed : 35

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

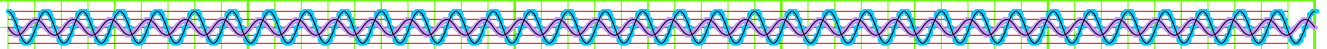
Third Harmonic: -1.23169 percent.

Fifth Harmonic: 0.429122 percent.

Seventh Harmonic: -0.0925297 percent.

Ninth Harmonic: -0.195859 percent.

THD 3 - 9 : 1.32217 percent.



09-18-04 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -3  
  -3 -3 -2 -1  
   0 1 2 3  
  3 3 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 9 8 6 3  
  0 -3 -6 -8  
 -9 -9 -8 -6  
 -3 0 3 6 8 9 ]
```

Cosine Amplitude "size" : 9

Cosine Time Period "speed" : 18

Clipped Sin Amplitude "sinclip" : 3

Cycles Displayed : 27

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

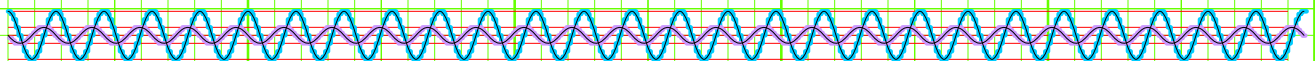
Third Harmonic: 1.37949 percent.

Fifth Harmonic: -0.347477 percent.

Seventh Harmonic: 0.221474 percent.

Ninth Harmonic: -0.042854 percent.

THD 3 - 9 : 1.44036 percent.



10-18-04 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4  
  -4 -3 -2 -1  
   0 1 2 3  
  4 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 10 9 7 4  
   0 -4 -7 -9  
  -10 -10 -9 -7  
  -4 0 4 7 9 10 ]
```

Cosine Amplitude "size" : 10

Cosine Time Period "speed" : 18

Clipped Sin Amplitude "sinclip" : 4

Cycles Displayed : 27

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

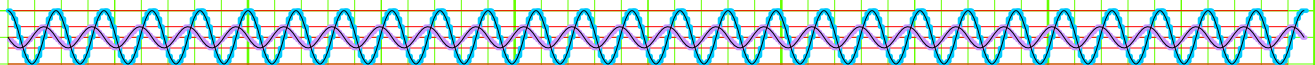
Third Harmonic: -1.90513 percent.

Fifth Harmonic: 0.656034 percent.

Seventh Harmonic: 0.0476129 percent.

Ninth Harmonic: -0.0239772 percent.

THD 3 - 9 : 2.01563 percent.



14-22-04 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -4  
-4 -4 -3 -2 -1  
0 1 2 3 4  
4 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 14 13 11 8 4  
0 -4 -8 -11 -13  
-14 -14 -13 -11 -8  
-4 0 4 8 11 13 14 ]
```

Cosine Amplitude "size" : 14

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 4

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

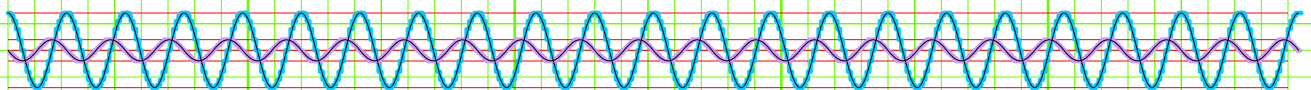
Third Harmonic: -2.69104e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.80497e-05 percent.

THD 3 - 9 : 0.394368 percent.



15-22-05 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5  
  -5 -4 -3 -2 -1  
   0 1 2 3 4  
   5 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 15 14 12 9 5  
   0 -5 -9 -12 -14  
  -15 -15 -14 -12 -9  
  -5 0 5 9 12 14 15 ]
```

Cosine Amplitude "size" : 15

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 5

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

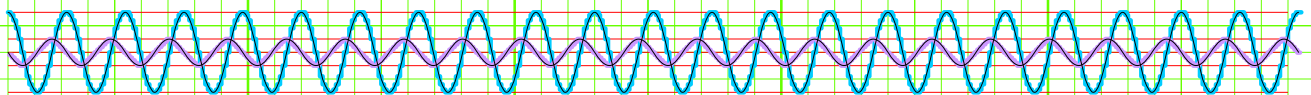
Third Harmonic: -2.30327 percent.

Fifth Harmonic: 0.751934 percent.

Seventh Harmonic: -7.22556e-06 percent.

Ninth Harmonic: 0.0501246 percent.

THD 3 - 9 : 2.42342 percent.



20-26-05 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -5  
-5 -5 -4 -3 -2 -1  
0 1 2 3 4 5  
5 5 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 20 19 17 14 10 5  
0 -5 -10 -14 -17 -19  
-20 -20 -19 -17 -14 -10  
-5 0 5 10 14 17 19 20 ]
```

Cosine Amplitude "size" : 20

Cosine Time Period "speed" : 26

Clipped Sin Amplitude "sinclip" : 5

Cycles Displayed : 18

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

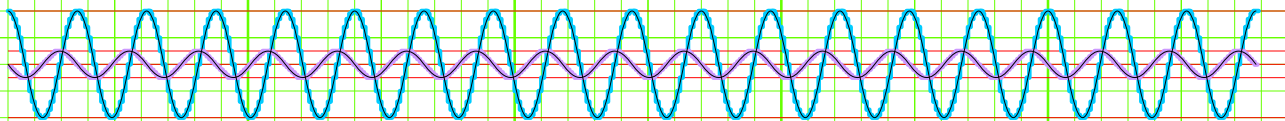
Third Harmonic: -0.87435 percent.

Fifth Harmonic: -2.40716e-05 percent.

Seventh Harmonic: 0.328865 percent.

Ninth Harmonic: -0.0420379 percent.

THD 3 - 9 : 0.935097 percent.



21-26-06 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6  
  -6 -5 -4 -3 -2 -1  
   0 1 2 3 4 5  
   6 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 21 20 18 15 11 6  
  0 -6 -11 -15 -18 -20  
 -21 -21 -20 -18 -15 -11  
 -6 0 6 11 15 18 20 21 ]
```

Cosine Amplitude "size" : 21

Cosine Time Period "speed" : 26

Clipped Sin Amplitude "sinclip" : 6

Cycles Displayed : 18

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

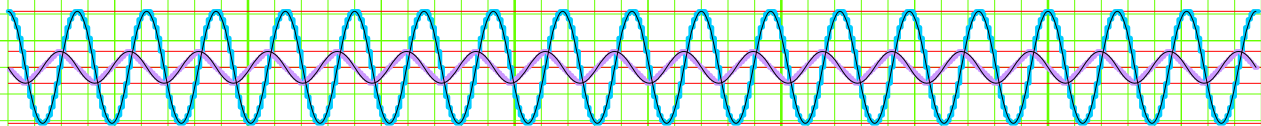
Third Harmonic: -2.56185 percent.

Fifth Harmonic: 0.798421 percent.

Seventh Harmonic: -0.0503048 percent.

Ninth Harmonic: 0.0879901 percent.

THD 3 - 9 : 2.6853 percent.



27-30-06 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -6  
-6 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6  
6 6 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 27 26 24 21 17 12 6  
0 -6 -12 -17 -21 -24 -26  
-27 -27 -26 -24 -21 -17 -12  
-6 0 6 12 17 21 24 26 27 ]
```

Cosine Amplitude "size" : 27

Cosine Time Period "speed" : 30

Clipped Sin Amplitude "sinclip" : 6

Cycles Displayed : 16

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

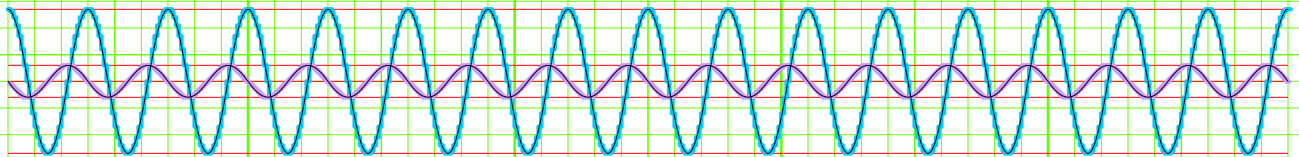
Third Harmonic: -1.45821 percent.

Fifth Harmonic: 0.16339 percent.

Seventh Harmonic: 0.268164 percent.

Ninth Harmonic: -0.0564979 percent.

THD 3 - 9 : 1.49271 percent.



28-30-07 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7  
  -7 -6 -5 -4 -3 -2 -1  
   0 1 2 3 4 5 6  
  7 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 28 27 25 22 18 13 7  
  0 -7 -13 -18 -22 -25 -27  
 -28 -28 -27 -25 -22 -18 -13  
 -7 0 7 13 18 22 25 27 28 ]
```

Cosine Amplitude "size" : 28

Cosine Time Period "speed" : 30

Clipped Sin Amplitude "sinclip" : 7

Cycles Displayed : 16

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

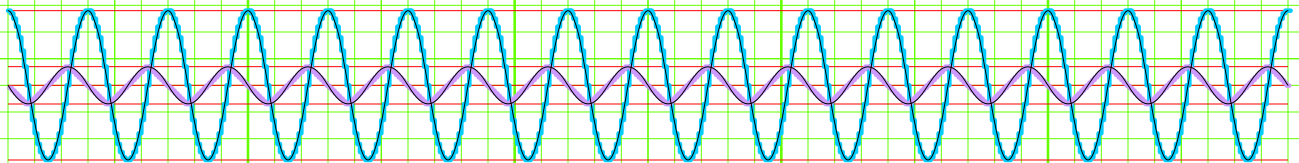
Third Harmonic: -2.74196 percent.

Fifth Harmonic: 0.822795 percent.

Seventh Harmonic: -0.0896307 percent.

Ninth Harmonic: 0.109328 percent.

THD 3 - 9 : 2.86624 percent.



35-34-07 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -7  
-7 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7  
7 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 35 34 32 29 25 20 14 7  
0 -7 -14 -20 -25 -29 -32 -34  
-35 -35 -34 -32 -29 -25 -20 -14  
-7 0 7 14 20 25 29 32 34 35 ]
```

Cosine Amplitude "size" : 35

Cosine Time Period "speed" : 34

Clipped Sin Amplitude "sinclip" : 7

Cycles Displayed : 14

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

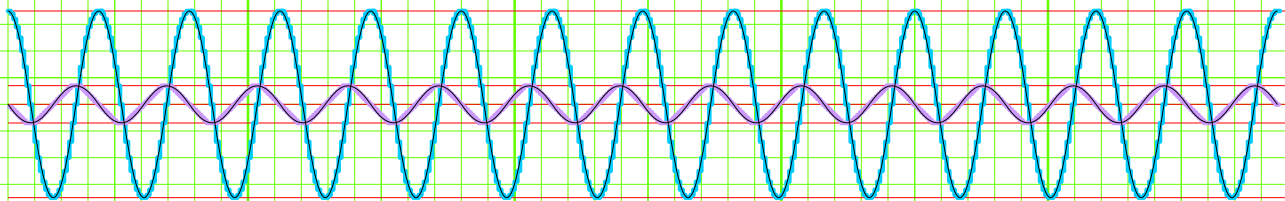
Third Harmonic: -1.86709 percent.

Fifth Harmonic: 0.291135 percent.

Seventh Harmonic: 0.200267 percent.

Ninth Harmonic: -0.0504109 percent.

THD 3 - 9 : 1.9009 percent.



36-34-08 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8  
  -8 -7 -6 -5 -4 -3 -2 -1  
   0 1 2 3 4 5 6 7  
   8 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 36 35 33 30 26 21 15 8  
  0 -8 -15 -21 -26 -30 -33 -35  
 -36 -36 -35 -33 -30 -26 -21 -15  
 -8 0 8 15 21 26 30 33 35 36 ]
```

Cosine Amplitude "size" : 36

Cosine Time Period "speed" : 34

Clipped Sin Amplitude "sinclip" : 8

Cycles Displayed : 14

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

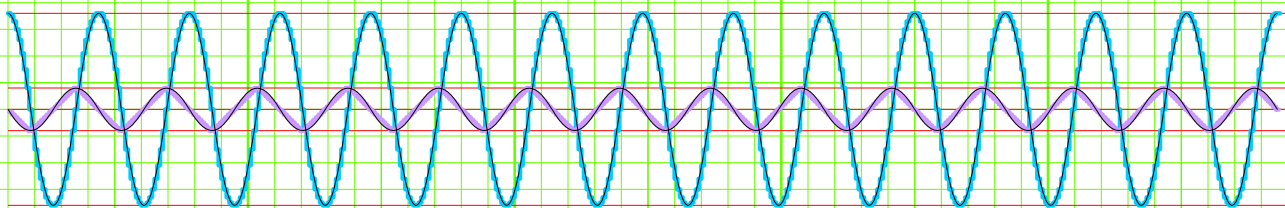
Third Harmonic: -2.8741 percent.

Fifth Harmonic: 0.836101 percent.

Seventh Harmonic: -0.11953 percent.

Ninth Harmonic: 0.122306 percent.

THD 3 - 9 : 2.99813 percent.



44-38-08 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -8  
-8 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8  
8 8 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 44 43 41 38 34 29 23 16 8  
0 -8 -16 -23 -29 -34 -38 -41 -43  
-44 -44 -43 -41 -38 -34 -29 -23 -16  
-8 0 8 16 23 29 34 38 41 43 44 ]
```

Cosine Amplitude "size" : 44

Cosine Time Period "speed" : 38

Clipped Sin Amplitude "sinclip" : 8

Cycles Displayed : 12

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

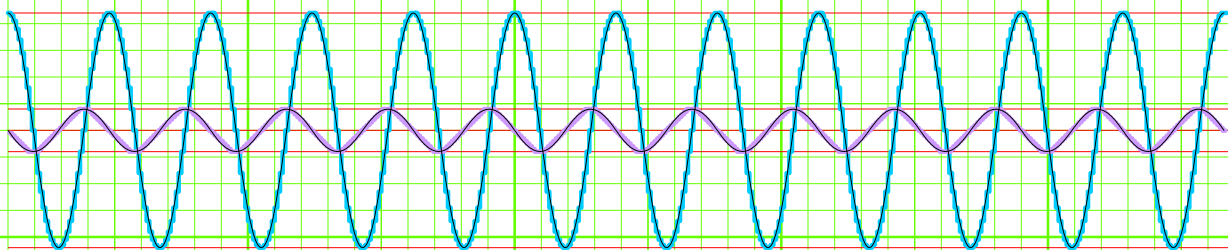
Third Harmonic: -2.16494 percent.

Fifth Harmonic: 0.389249 percent.

Seventh Harmonic: 0.13777 percent.

Ninth Harmonic: -0.0353161 percent.

THD 3 - 9 : 2.20425 percent.



45-38-09 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9  
  -9 -8 -7 -6 -5 -4 -3 -2 -1  
   0 1 2 3 4 5 6 7 8  
  9 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 45 44 42 39 35 30 24 17 9  
  0 -9 -17 -24 -30 -35 -39 -42 -44  
 -45 -45 -44 -42 -39 -35 -30 -24 -17  
 -9 0 9 17 24 30 35 39 42 44 45 ]
```

Cosine Amplitude "size" : 45

Cosine Time Period "speed" : 38

Clipped Sin Amplitude "sinclip" : 9

Cycles Displayed : 12

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

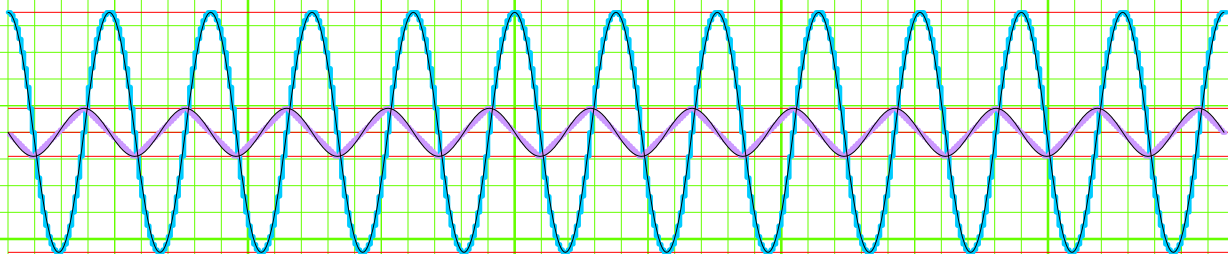
Third Harmonic: -2.9749 percent.

Fifth Harmonic: 0.843401 percent.

Seventh Harmonic: -0.14254 percent.

Ninth Harmonic: 0.130549 percent.

THD 3 - 9 : 3.09818 percent.



54-42-09 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -9  
-9 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9  
9 9 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 54 53 51 48 44 39 33 26 18 9  
0 -9 -18 -26 -33 -39 -44 -48 -51 -53  
-54 -54 -53 -51 -48 -44 -39 -33 -26 -18  
-9 0 9 18 26 33 39 44 48 51 53 54 ]
```

Cosine Amplitude "size" : 54

Cosine Time Period "speed" : 42

Clipped Sin Amplitude "sinclip" : 9

Cycles Displayed : 11

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

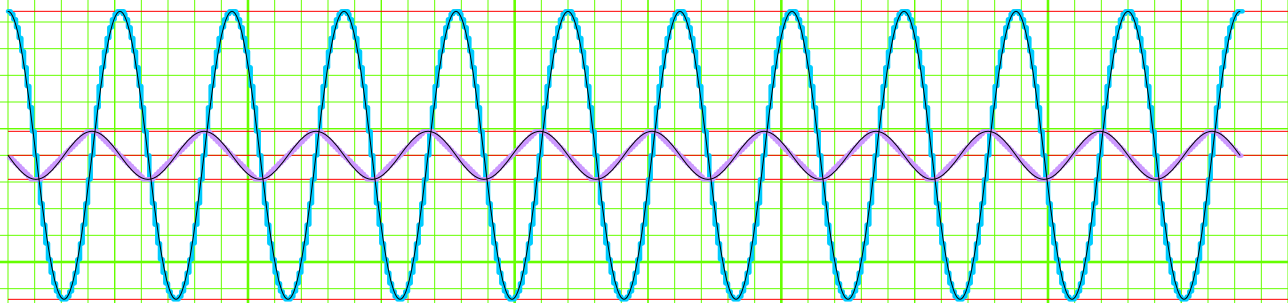
Third Harmonic: -2.38924 percent.

Fifth Harmonic: 0.464855 percent.

Seventh Harmonic: 0.0837956 percent.

Ninth Harmonic: -0.0175235 percent.

THD 3 - 9 : 2.43554 percent.



55-42-10 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10  
  -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
   0 1 2 3 4 5 6 7 8 9  
  10 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 55 54 52 49 45 40 34 27 19 10  
   0 -10 -19 -27 -34 -40 -45 -49 -52 -54  
  -55 -55 -54 -52 -49 -45 -40 -34 -27 -19  
 -10 0 10 19 27 34 40 45 49 52 54 55 ]
```

Cosine Amplitude "size" : 55

Cosine Time Period "speed" : 42

Clipped Sin Amplitude "sinclip" : 10

Cycles Displayed : 11

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

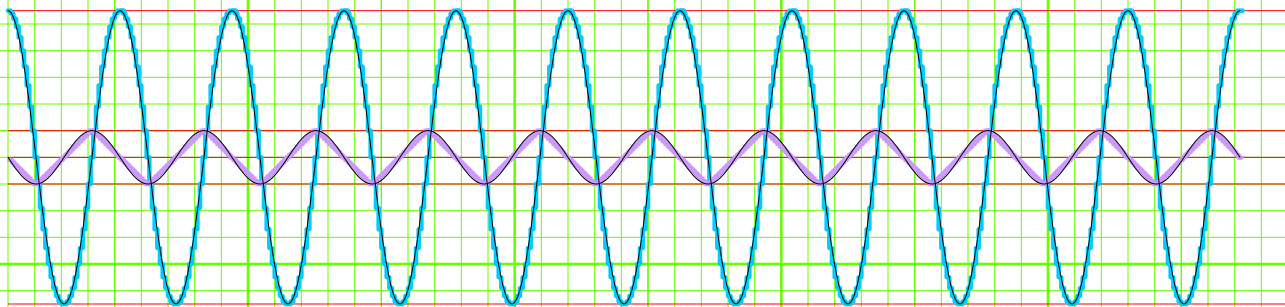
Third Harmonic: -3.05426 percent.

Fifth Harmonic: 0.847312 percent.

Seventh Harmonic: -0.160591 percent.

Ninth Harmonic: 0.136008 percent.

THD 3 - 9 : 3.17659 percent.



65-46-10 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -10  
-10 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 10  
10 10 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 65 64 62 59 55 50 44 37 29 20 10  
0 -10 -20 -29 -37 -44 -50 -55 -59 -62 -64  
-65 -65 -64 -62 -59 -55 -50 -44 -37 -29 -20  
-10 0 10 20 29 37 44 50 55 59 62 64 65 ]
```

Cosine Amplitude "size" : 65

Cosine Time Period "speed" : 46

Clipped Sin Amplitude "sinclip" : 10

Cycles Displayed : 10

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

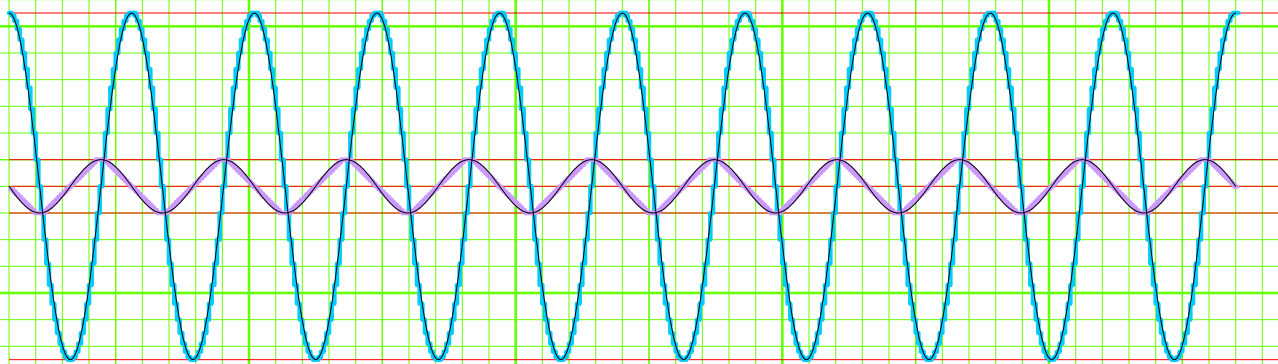
Third Harmonic: -2.56274 percent.

Fifth Harmonic: 0.523677 percent.

Seventh Harmonic: 0.0382315 percent.

Ninth Harmonic: -5.12823e-07 percent.

THD 3 - 9 : 2.61597 percent.



66-46-11 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11  
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 10  
11 11 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 66 65 63 60 56 51 45 38 30 21 11  
0 -11 -21 -30 -38 -45 -51 -56 -60 -63 -65  
-66 -66 -65 -63 -60 -56 -51 -45 -38 -30 -21  
-11 0 11 21 30 38 45 51 56 60 63 65 66 ]
```

Cosine Amplitude "size" : 66

Cosine Time Period "speed" : 46

Clipped Sin Amplitude "sinclip" : 11

Cycles Displayed : 10

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

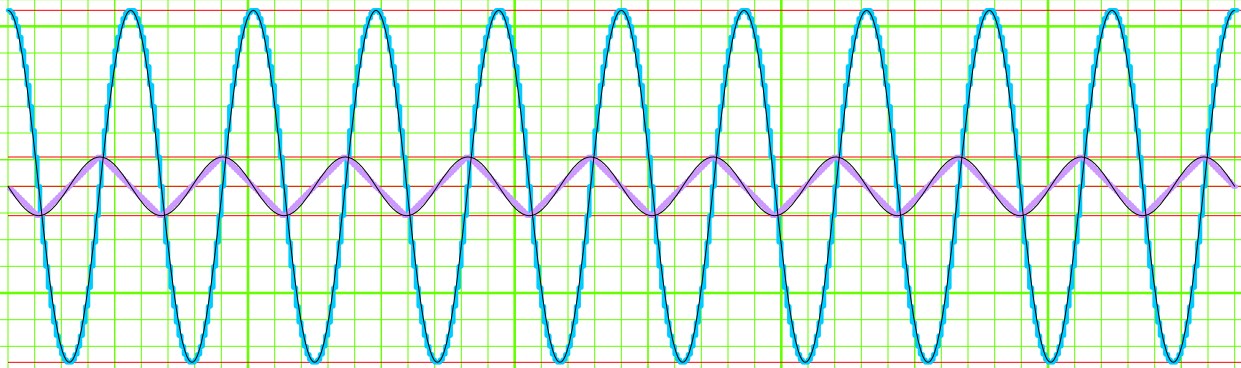
Third Harmonic: -3.11822 percent.

Fifth Harmonic: 0.849205 percent.

Seventh Harmonic: -0.17502 percent.

Ninth Harmonic: 0.13969 percent.

THD 3 - 9 : 3.23953 percent.



77-50-11 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -11  
-11 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 8 9 10 11  
11 11 11 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 77 76 74 71 67 62 56 49 41 32 22 11  
0 -11 -22 -32 -41 -49 -56 -62 -67 -71 -74 -76  
-77 -77 -76 -74 -71 -67 -62 -56 -49 -41 -32 -22  
-11 0 11 22 32 41 49 56 62 67 71 74 76 77 ]
```

Cosine Amplitude "size" : 77

Cosine Time Period "speed" : 50

Clipped Sin Amplitude "sinclip" : 11

Cycles Displayed : 9

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

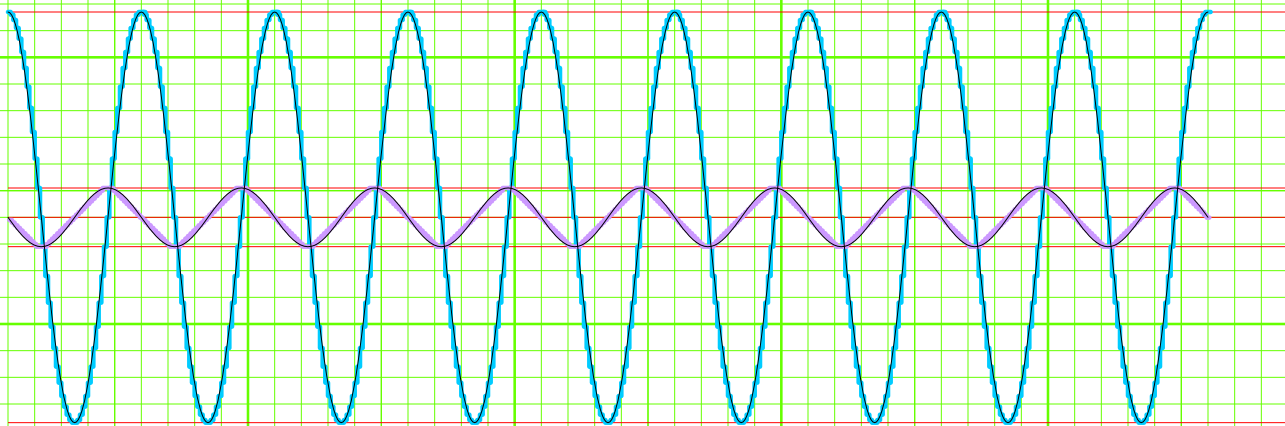
Third Harmonic: -2.7001 percent.

Fifth Harmonic: 0.57 percent.

Seventh Harmonic: -1.11146e-05 percent.

Ninth Harmonic: 0.0160788 percent.

THD 3 - 9 : 2.75965 percent.



78-50-12 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12  
  -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1  
   0 1 2 3 4 5 6 7 8 9 10 11  
  12 12 11 10 9 8 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 78 77 75 72 68 63 57 50 42 33 23 12  
   0 -12 -23 -33 -42 -50 -57 -63 -68 -72 -75 -77  
  -78 -78 -77 -75 -72 -68 -63 -57 -50 -42 -33 -23  
 -12 0 12 23 33 42 50 57 63 68 72 75 77 78 ]
```

Cosine Amplitude "size" : 78

Cosine Time Period "speed" : 50

Clipped Sin Amplitude "sinclip" : 12

Cycles Displayed : 9

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

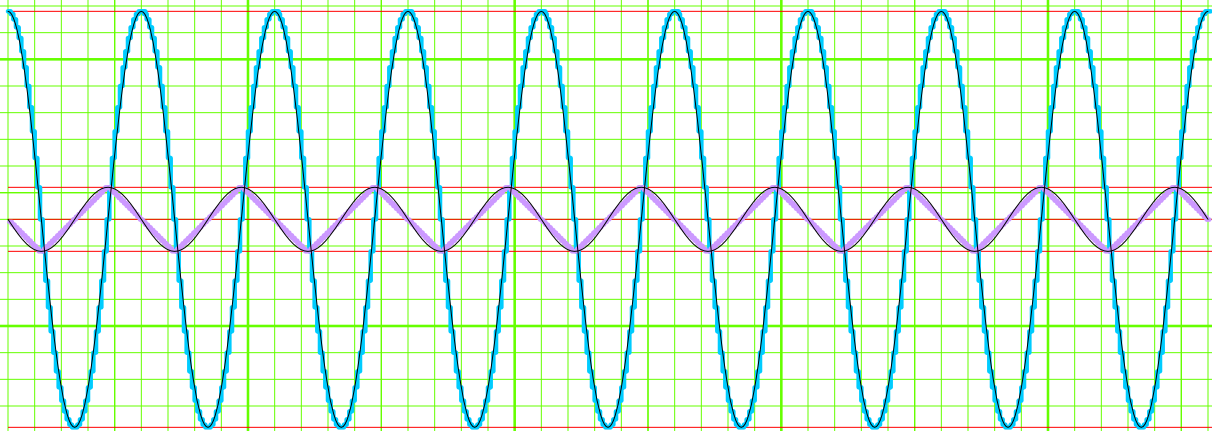
Third Harmonic: -3.17087 percent.

Fifth Harmonic: 0.849885 percent.

Seventh Harmonic: -0.186791 percent.

Ninth Harmonic: 0.142218 percent.

THD 3 - 9 : 3.29118 percent.



- -04 triangle series no clip single peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -5 -6 -7 -7 -8 -9 -10 -11 -12 -12  
-12 -12 -11 -10 -9 -8 -7 -7 -6 -5 -4 -3 -2 -1  
0 1 2 3 4 5 6 7 7 8 9 10 11 12  
12 12 12 11 10 9 8 7 7 6 5 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 97 96 94 91 87 82 76 69 62 54 45 35 24 12  
0 -12 -24 -35 -45 -54 -62 -69 -76 -82 -87 -91 -94 -96  
-97 -97 -96 -94 -91 -87 -82 -76 -69 -62 -54 -45 -35 -24  
-12 0 12 24 35 45 54 62 69 76 82 87 91 94 96 97 ]
```

Cosine Amplitude "size" : 97

Cosine Time Period "speed" : 58

Clipped Sin Amplitude "sinclip" : 12

Cycles Displayed : 8

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

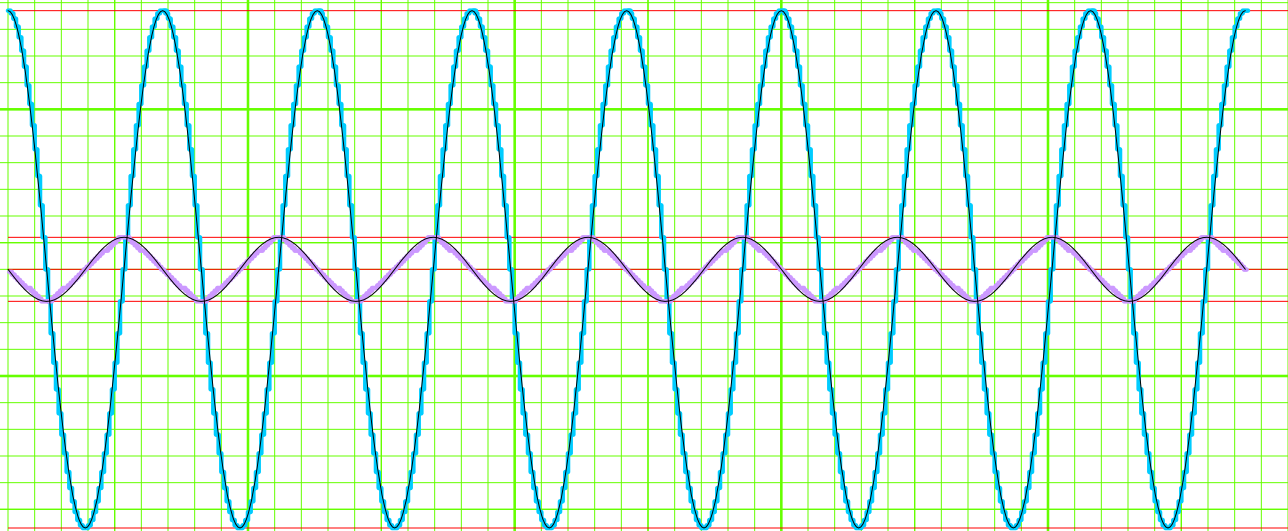
Third Harmonic: -2.1856 percent.

Fifth Harmonic: 0.991093 percent.

Seventh Harmonic: -0.241221 percent.

Ninth Harmonic: -0.0362327 percent.

THD 3 - 9 : 2.41218 percent.



14-22-04 triangle series no clip double peak

Approximate Internal Sinewave:

```
[ -1 -2 -3 -4 -4  
  -4 -4 -3 -2 -1  
   0 1 2 3 4  
  4 4 3 2 1 ]
```

Approximate Cosine Wave Output:

```
[ 14 13 11 8 4  
   0 -4 -8 -11 -13  
  -14 -14 -13 -11 -8  
  -4 0 4 8 11 13 14 ]
```

Cosine Amplitude "size" : 14

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 4

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

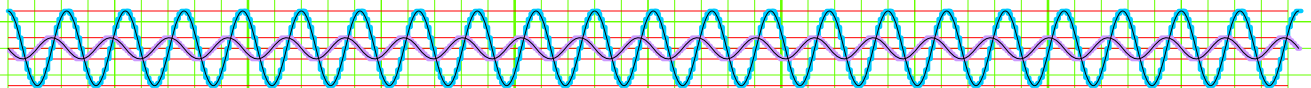
Third Harmonic: -2.69104e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.80497e-05 percent.

THD 3 - 9 : 0.394368 percent.



28-22-08 triangle mag series no clip single peak

Approximate Internal Sinewave:

```
[ -2 -4 -6 -8 -8  
  -8 -8 -6 -4 -2  
   0 2 4 6 8  
  8 8 8 6 4 2 ]
```

Approximate Cosine Wave Output:

```
[ 28 26 22 16 8  
  0 -8 -16 -22 -26  
 -28 -28 -26 -22 -16  
 -8 0 8 16 22 26 28 ]
```

Cosine Amplitude "size" : 28

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 8

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

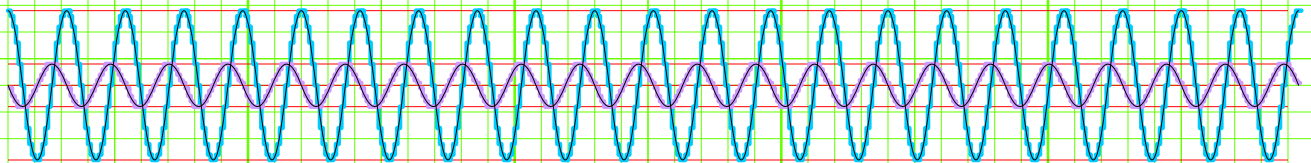
Third Harmonic: -2.69104e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.80497e-05 percent.

THD 3 - 9 : 0.394368 percent.



42-22-12 triangle mag series no clip single peak

Approximate Internal Sinewave:

```
[ -3 -6 -9 -12 -12  
-12 -12 -9 -6 -3  
0 3 6 9 12  
12 12 9 6 3 ]
```

Approximate Cosine Wave Output:

```
[ 42 39 33 24 12  
0 -12 -24 -33 -39  
-42 -42 -39 -33 -24  
-12 0 12 24 33 39 42 ]
```

Cosine Amplitude "size" : 42

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 12

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

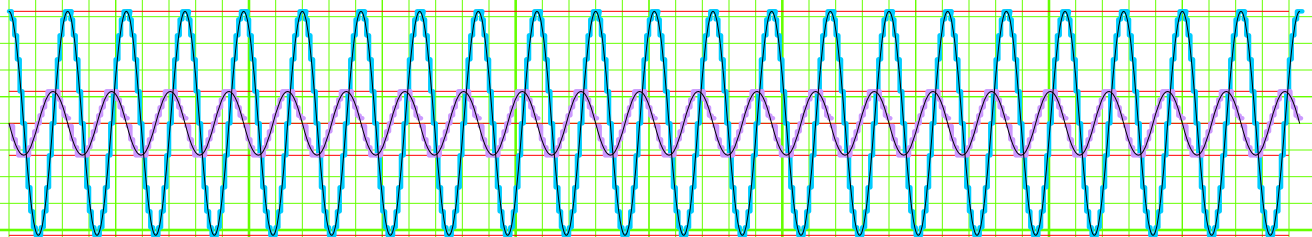
Third Harmonic: -2.80043e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.70651e-05 percent.

THD 3 - 9 : 0.394368 percent.



56-22-16 triangle mag series no clip single peak

Approximate Internal Sinewave:

```
[ -4 -8 -12 -16 -16  
-16 -16 -12 -8 -4  
0 4 8 12 16  
16 16 16 12 8 4 ]
```

Approximate Cosine Wave Output:

```
[ 56 52 44 32 16  
0 -16 -32 -44 -52  
-56 -56 -52 -44 -32  
-16 0 16 32 44 52 56 ]
```

Cosine Amplitude "size" : 56

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 16

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

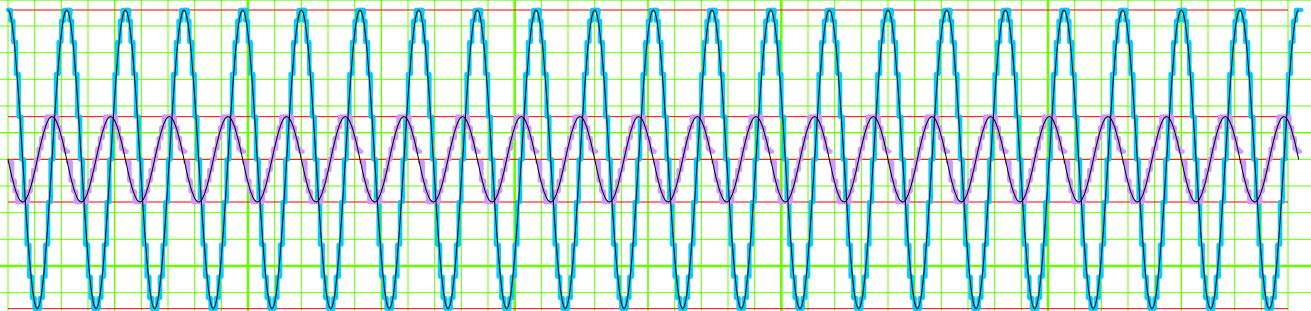
Third Harmonic: -2.69104e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.80497e-05 percent.

THD 3 - 9 : 0.394368 percent.



70-22-20 triangle mag series no clip single peak

Approximate Internal Sinewave:

```
[ -5 -10 -15 -20 -20  
  -20 -20 -15 -10 -5  
   0 5 10 15 20  
  20 20 20 15 10 5 ]
```

Approximate Cosine Wave Output:

```
[ 70 65 55 40 20  
  0 -20 -40 -55 -65  
 -70 -70 -65 -55 -40  
 -20 0 20 40 55 65 70 ]
```

Cosine Amplitude "size" : 70

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 20

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

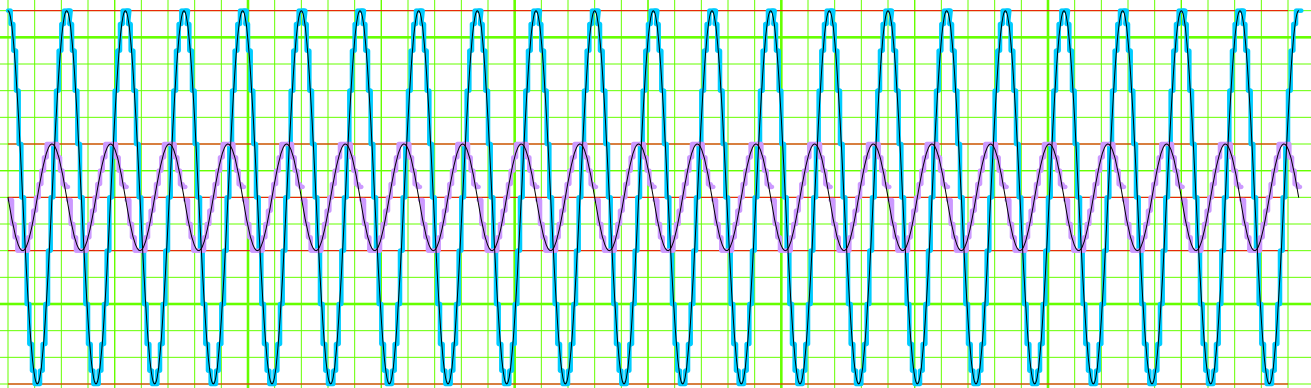
Third Harmonic: -2.83544e-05 percent.

Fifth Harmonic: -0.192651 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.75902e-05 percent.

THD 3 - 9 : 0.394369 percent.



84-22-24 triangle mag series no clip single peak

Approximate Internal Sinewave:

[-6 -12 -18 -24 -24
-24 -24 -18 -12 -6
0 6 12 18 24
24 24 24 18 12 6]

Approximate Cosine Wave Output:

[84 78 66 48 24
0 -24 -48 -66 -78
-84 -84 -78 -66 -48
-24 0 24 48 66 78 84]

Cosine Amplitude "size" : 84

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 24

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

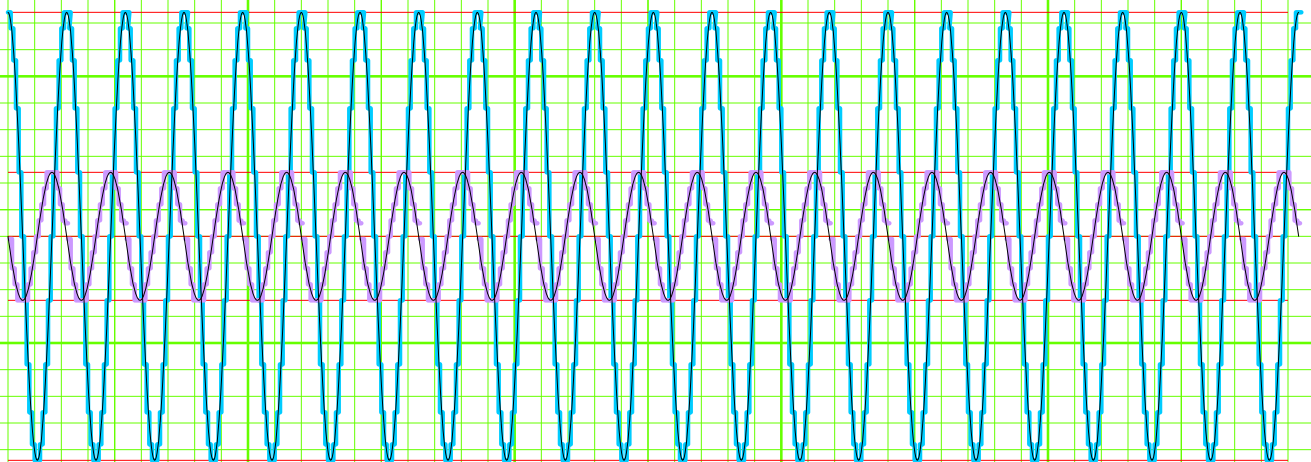
Third Harmonic: -2.80043e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.70651e-05 percent.

THD 3 - 9 : 0.394368 percent.



98-22-28 triangle mag series no clip single peak

Approximate Internal Sinewave:

```
[ -7 -14 -21 -28 -28  
-28 -28 -21 -14 -7  
0 7 14 21 28  
28 28 21 14 7 ]
```

Approximate Cosine Wave Output:

```
[ 98 91 77 56 28  
0 -28 -56 -77 -91  
-98 -98 -91 -77 -56  
-28 0 28 56 77 91 98 ]
```

Cosine Amplitude "size" : 98

Cosine Time Period "speed" : 22

Clipped Sin Amplitude "sinclip" : 28

Cycles Displayed : 22

Soft Clip: false

Double Peak: true

Clipped: true

Unfiltered!

Third Harmonic: -2.92545e-05 percent.

Fifth Harmonic: -0.192649 percent.

Seventh Harmonic: 0.344111 percent.

Ninth Harmonic: -1.76277e-05 percent.

THD 3 - 9 : 0.394368 percent.

